2014-2015 EDITION

SPORTS MANAGEMENT HANDBOOK

the essential resource for the sports industry

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WELCOME



MAKING A FRESH START

Huge change in the developing world is creating a global market for sport where major event bidding, facility development and both elite and community sport are part of a rich mix of opportunity

Facilities in developing markets can

be built from the ground up in a

sustainable way, avoiding mistakes

made in established markets

Ithough the sports market is mature in the West, developing countries from Indonesia to Mexico are experiencing rapid growth as a result of increased affluence. This is creating a fresh start: a situation where systems and facilities can be built from the ground up in a sustainable way, avoiding mistakes made in more established markets.

Done well, this trend will create positive benefits for all, as sport becomes more of a global market and expertise and opportunities are shared.

Globalisation is changing the way sports shape their communities and on page 54, we examine this trend and look at how new facilities are being funded in emerging markets – initially to win major

events, then afterwards in response to growing aspiration.

Derek Casey, chair emeritus of World Leisure, who spends most of his time travelling the world, advising and lecturing on sports development, says: "It's clear that if you see countries developing economically, getting people out of poverty and creating a more equal society, you're likely to see higher levels of participation, as well as increased ambitions to become a player on the international stage." Many positive things can come from sports facility development if the strategy is sound: "It's important for emerging nations to realise that their ambition to play on the international stage should not ignore, or be a substitute, for parallel domestic development," says Casey. "A strong sports hinterland is a strong base for the successful staging of international events.

> "There should [also] be more emphasis on making sure hosting a major sporting event contributes to health, education, environment, equality and wealth creation and distribution," he concludes.

> With China funding sports facilities in exchange for raw materials via its stadium diplomacy deals and major sports and sponsors targeting developing nations,

the role of sport in these areas must be safeguarded to ensure we build it better second time around. With advocates such as Casey working to share best practice globally, the aim is to open up two-way communications for the benefit of all involved.

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DEVELOPMENT PIPELINE

A ROUND-UP OF SOME OF THE MOST INTERESTING AND EXCITING DEVELOPMENTS CURRENTLY UNDERWAY WORLDWIDE

ARENAS

Red Wings Arena

Detroit, US

Opening: TBC

Detroit's Downtown Development Authority (DDA) has approved a recommendation by Olympia Development of Michigan to name Barton Malow-Hunt-White as general contractor for the new, US\$450m (£265m, €323) Detroit Red Wings arena. The proposed 18,000-seater arena for the National Hockey League (NHL) team will replace the current Joe Louis Arena, which has been home to the Red Wings since 1927.

The development is part of a larger US\$650m (£421m, €497m) project which will see US\$200m (£117.8m, €216.3m) go towards a mixed-use complex, which would include residential and retail in addition to offices. Developers of the project have said that public money will come from the existing economic development fund and would require no new taxes or funds from Detroit, which is the largest city in the country to be under state financial oversight. Details: http://lei.sr?a=K8T8t



The new arena will become home to the Cardiff Devils ice hockey team

Cardiff Bay Ice Arena

| Cardiff, UK | |
|---------------|--|
| Opening: 2015 | |
| | |

Work has started on a 3,000-seat £16m ice rink in Cardiff ahead of a 2015 opening.

The centre, which will be located at Cardiff Bay's International Sports Village, will be home to the Cardiff Devils ice hockey team and will house two ice rinks.

The development will also house associated retail and hotel facilities, including: a 170m ski slope; a nursery slope; snow-play facilities and children's entertainment centres; plus shops, bars, restaurants, a hotel and new homes.

The project is being developed by Helium Miracle 113, a subsidiary of Wigan-based developer Greenbank Partnerships.

Jonathan Smith, development director of Greenbank, said: "Ice Arena Wales will be a world-class facility capable of holding Olympic-standard events, but which will be available to the public and schools, in addition to the amateur and professional teams that play at the existing rink." Details: http://lei.sr?a=X9m5v



Royal Arena

Copenhagen, Denmark

Opening: Q3 2016

An upcoming multi-use arena development in Copenhagen has been christened the Royal Arena in Denmark, following a long-term sponsorship agreement with beer makers Royal Unibrew.

Work on the arena – which is being built at a cost of \in 134m (US\$182m, £107m) and will seat up to 15,000 people – is progressing on schedule with an expected completion date in Q3 2016. The agreement between Royal Unibrew and stadium owners English Venue Enterprise is one of the top five largest of its kind in the region. Though the fee has not been revealed, it is thought that money made from the deal has been put back into the construction of the arena.

Designed by a team consisting of architects 3XN, HKS and Planit IE, the arena – which will mainly host ice hockey, handball and concerts – will have a "distinctly Nordic" design, with Arup and ME Engineers handling the construction side of things. The majority of funding has come from The arena – designed by a three-firm architectural partnership – has a distinct Nordic feel to its design

private charitable foundation Realdania and Copenhagen Municipality, which have both supplied €43.5m (US\$59.3m, £34.9m), while the Elite Facility Committee has supplied an unspecified construction grant, with further operating grants from the Danish National Olympic Committee and Sports Confederation of Denmark. Details: http://lei.sr?a=K9L1z

Quebecor Arena

Quebec, Canada

Opening: September 2015

Quebec City's new hockey arena is starting to take shape as hockey fans prepare for a September 2015 opening – but only if arena officials can find an NHL franchise to call it home.

The CA\$400m (US\$372.3, €273.3m, £219.3m) multi-use indoor arena, which will be mainly used for hockey, will have a capacity of 18,482 and is being built with the view of a relocated or expansion NHL franchise to start up in Quebec City, though funding has been granted regardless of whether or not a team moves in.

Architects Populous have lead on the arena's design in collaboration with ABCP Architecture and GLCRM & Associates. Pomerleau is operating as general contractor.

In addition to the arena, a television studio, valued at between CA\$30 million and CA\$40 million, will be constructed within the arena.

Funding for the arena has been split 50-50 between the city of Quebec and the province of Quebec. Details: http://lei.sr?a=r7q8q



Populous worked on the arena's design



The 18,5000 capacity venue has been designed by AECOM

Sacramento Kings

Sacramento, US

Opening: TBC

Plans for a US\$477m (€350.5m, £284.5m) downtown arena for the Sacramento Kings basketball team are likely to soon become a reality, following the City Council's recent decision to approve development plans.

The new venue has been designed by AECOM and will seat in the region of 18,500 people when completed.

Once work gets underway later this year at the Downtown Plaza complex, it is believed that Turner Construction will handle the majority of the build, while Icon Venue Group will manage the project.

The ground will mainly play host to the Kings during their home fixtures, though

there are also plans to host other indoor sports and music concerts.

As part of the development, the team's owners - Vivek Ranadivé, Ron Burkle and Mark Mastrov - are also seeking to build hotels, shops and restaurants around the ground.

Following the council's approval for the build, a 35-year deal will see the city be responsible for a US\$223m (€163.8m, £133m) subsidy, while also taking care of US\$21.9m (€16.1m, £13m) annual in debt service that would be paid through lease payments from the Kings and a projected increase in parking revenue.

The team is being asked to contribute US\$254m (€187.3m, £152.m) to help construct the arena and develop the area.

Once complete, the Kings will move from its current home at the nearby Sleep Train Arena. Details: http://lei.sr?a=R6J0x

ARENAS | DEVELOPMENT PIPELINE



Golden State Warriors Arena

San Francisco, US

Opening: 2018

The Golden State Warriors are set for a return to San Francisco, US from nearby Oakland after the basketball team's new 18,000-seat arena is completed in 2018.

Initial plans to build the arena on the San Francisco Bay waterfront were cast in doubt following concerns over traffic and environmental issues. Hence, on 19 April 2014, the Warriors abandoned plans for the pier site and instead chose Mission Bay as the new site.

"I couldn't be more thrilled to welcome the Golden State Warriors back home to San Francisco with a brand new, privately financed arena in Mission Bay," said Mayor Edwin Lee in a statement. "The new Mission Bay arena will generate new jobs and millions of dollars in tax revenue for our city."

The Warriors have played in the Oakland area since 1971 and finally made the long-awaited plan to return to San Francisco in 2012. The arena project will be financed privately and the team plans to have the arena ready for the 2018–19 NBA season.

Once open the new San Francisco arena, which has had elements designed by architects AECOM and Snøhetta, will host concerts, ice dancing and dog shows to complement the basketball games. Details: http://lei.sr?a=i9d3E Olympic Velodrome

Rio de Janeiro, Brazil

Opening: 2016



AECOM will oversee the master planning

Brazil is to become home to one of South America's leading cycling venues and training bases once work on the Rio Olympic Velodrome is completed in 2015.

The Velodrome, which is to be based at the Olympic Park in Barra da Tijuca, Rio de Janeiro, will host track cycling events at the Rio Olympic and Paralympic Games in 2016.

The concept is to feature 5,000 permanent seats and 800 temporary seats, with the Velodrome being built with environmental principles in mind as the project seeks to obtain an LEED (Leadership in Energy and Environmental Design) certification.

The Velodrome is to become a major feature of the region's Olympic legacy, when it combines with three Olympic Halls, a tennis centre and the Maria Lenk Aquatic Park after the Games, creating a progressive training and accommodation centre for athletes in the area following the 2016 Games. Details: http://lei.sr?a=N8y8e

VTB Arena (Dynamo Moscow)

Moscow, Russia

Opening: 2016

Russian football club FC Dynamo Moscow will be given a new home once the VTB Arena is completed in 2016, with the stadium being created as part of a progressive VTB Arena Park project in the Russian capital.

Designed by US-based Manica Architecture, the 33,000-capacity stadium is part of an overall US\$1.5bn (€1.1bn, £884m) development to create a leading sporting venue alongside an expansive leisure area.

The VTB Arena is being built on the site of the legendary Dynamo Stadium and plans also include a 12,000-capacity indoor arena. The Arena Park development is being led by VTB Bank, which is predominantly owned by the Russian government. The bank also holds a majority share in Dynamo Moscow. The park development will become home to a new sports and training complex, catering for both professionals and amateurs. Details: http://lei.sr?a=j7F8s



Manica Architecture designed the stadium



Rogers Place

Edmonton, Canada

Opening: 2016

Work remains on schedule and on budget for Edmonton's new downtown multi-use arena Rogers Place, with the team behind the project saying that the new arena will be "the best in the National Hockey League".

Dan Vaillant, with project manager lcon Venue Group, said the arena would be "the best facility in the league (NHL)", with a number of unique features including the HD video screen for the building being five times larger than any other in the hockey league.

To be primarily home to the Edmonton Oilers ice hockey team, work on the CA\$600m (US\$559m, €410m, £329m) Rogers Place started in March 2014 and is expected to be open in time for the 2016-17 NHL season. The arena will seat 18,642 as a hockey venue, with capacity expanding to 20,734 for concerts.

Funding is coming by way of CA\$279m (US\$255m, €190m, £151m) from the Community Revitalization Levy (CRL) and other incremental revenues, CA\$125m (US\$114m, €85m, £68m) from ticket surcharge on all events in the new arena, CA\$137.8m (US\$126m, €94m £75m), from lease revenue for the arena, CA\$23.7m from Edmonton Arena Corporation and CA\$25m from other government sources.

US-based 360 Architecture are working in collaboration with Dialog, Manica and Arndt Tkalcic Bengert on the design of the project, while ICON Venue Group is working as project manager. Details: http://lei.sr?a=k3a3O

ARENAS | DEVELOPMENT PIPELINE



Tampere Central Arena

Tampere, Finland

Opening: 2016

A final approval is expected later this year for proposals to build a new 14,000capacity multi-use arena in Tampere, Finland. The planned Tampere Central Arena will be the new home for the city's two professional ice hockey teams – Ilves and Tappara – and the flexible design will also allow the venue to host other sporting events as well as concerts and exhibitions.

It is expected that the €124m (US\$166m, £98.4m) venue will have an ice-rink set up for most of the year, with more than 80 days a year taken up by the sport between the months of September and April. More than half of the venue's revenue (54 per cent) will come from ice hockey and the remaining 46 per cent from other sports and cultural events.

There will be 50 executive boxes and 2,500sq m of conferencing space, as well as

a range of restaurants with a combined total of 9,500 covers.

The arena will be managed by operating company Tampereen Keskusareena, established for the project by the stakeholders, which include the site owner TKK (Tampere Central Arena Real Estate). Designed by US-based architects Studio Daniel Libeskind, the arena will be part of the larger, mixed-use Tampere Deck project which also includes a hotel, residential towers and office space.

DEVELOPMENT PIPELINE | STADIUMS

Agia Sofia Stadium

Athens, Greece

Opening: TBC

Plans for a new stadium for Greek football club AEK Athens FC is looking more likely, following positive discussions between the club board and parliamentary opposition group Syriza.

The second largest party in the Greek parliament had originally been opposed to the idea of the Thanassis Kyratsous-designed stadium, but it now appears the group will vote in favour of Article 81, which concerns the building of the new stadium.

The €70m (US\$95m, £57m) project would see the construction of a 32,000-seat football venue in the Nea Filadelfeia suburb of Athens, with the plot sitting directly where the club's legendary Nikos Goumas Stadium once stood.

The stadium's construction is expected to begin this year (2014).

The new Agia Sophia Stadium has been designed after the Walls of Constantinople, with the facility also set to house a small church, a museum, executive suites, catering facilities and a specialised relaxation area. Details: http://lei.sr?a=g5l8D



The 32,000-seat stadium has seen delays



Tottenham Hotspur stadium

London, UK

Opening: 2018

Tottenham Hotspur Football Club (Spurs) is hoping to have its new stadium ready for the start of the 2018-19 season.

The proposed 58,000-capacity stadium, which forms part of the ambitious Northumberland Development Project in North London, has received initial planning permission - but it is understood the club still needs to secure additional funding to cover construction costs.

Under the deal the council will acquire land for the development to remove the risk of owners of neighbouring properties seeking an injunction to prevent construction of the development. The Council will then grant a 999-year lease of the land to THFC.

The Northumberland Development Project's (NPD) proposal for the stadium covers a 20-acre area, which includes the site of the current ground and the industrial land to the north to create a larger area in which the new stadium can be built.

It also includes plans for a hotel, 200 new homes, shops and leisure facilities.

The council granted planning permission to the scheme in 2010 and approved a revised scheme last year. It also pledged to invest £9m towards improvements of the area.

London mayor Boris Johnson has also pledged £18m (US\$30m, €22.6m) of public money towards the new stadium scheme. Details: http://lei.sr?a=o0s8Y

STADIUMS | DEVELOPMENT PIPELINE



Beckham gained the option to buy a cut-price MLS franchise during his time with LA Galaxy

Miami MLS Stadium

Miami, US

Opening: 2018

David Beckham's proposed US\$200m (€145m, £120m) Miami football stadium has been almost universally accepted by all sectors of the city. The only thing that can't be decided upon is the stadium's location.

Initial plans to build the stadium on the Miami waterfront were rejected after the US city deemed the proposed location "inappropriate," leaving the former footballer's Major League Soccer (MLS) franchise plan in tatters.

The rejection was the second in the space of a month for the former England football captain, who had plans rejected for a similar proposal at the port of Miami, which collapsed in the face of public opposition.

The project, which would have involved filling in a disused deep-water slipway and the creation of a "grand waterfront park", was suggested to Beckham's group in May, quickly becoming the favoured option when it became clear that opposition to the port plan from the Royal Caribbean cruise line and a maritime workers' alliance would prove a substantial obstacle to overcome.

Mayor Tomás Regalado, previously a strong supporter of the project, said he had changed his mind about the waterfront site and considered it inappropriate for a football stadium after seeking the opinions of local residents, leaving Beckham's investment group to consider the options available to it – one of which would be withdrawing from Miami altogether. The conglomerate of investors – Miami Beckham United (MBU) – is hoping to establish the Major League Soccer (MLS) franchise in Miami with the view of having the team and stadium ready for the 2018 season.

Designed by Arquitectonica and 360 Architecture, the proposed stadium is based on an open-air design with an undulating roof and a maximum capacity of 35,000.

The last MLS team in the Miami area, Miami Fusion, folded after four seasons.

MBU – which includes, among others, Beckham, his manager Simon Fuller and Bolivian billionaire Marcelo Claure – has admitted that building a privately-funded stadium on publicly-provided land is likely to be a long haul.

Details: http://lei.sr?a=L8d1d

Aberdeen FC stadium

Aberdeen, UK

Opening: TBC

Scottish Premier League side Aberdeen FC has re-entered talks to build a new £50m (US\$84m, €63m) stadium to replace its Pittodrie stadium.

The new venue is to be located near the city's Cover Bay and Loirston Loch. Plans originally put forward by the club to build a 21,000-seat stadium at Loirston were put on hold in August 2012 when Aberdeen City Council rejected the plans.

However, Aberdeen FC's chair Stewart Milne has said that talks are now back on and advancing well.

"We still see Loirston as the best location for the stadium and in recent months have reopened discussions with the Council," he said. "We've invested a lot of money into the Loirston site and believe it is the best option."

The club intends to fund the venture partly by selling its current Pittodrie Stadium. Barr Construction has been named the preferred contractor for the proposed stadium. It is expected that training facilities for the club will be in place before the stadium relocation. Details: http://lei.sr?a=V9R0F



Aberdeen is seeking a new stadium home



The stadium has been designed to replicate the ancient Rome Colosseum

| Stadio AS Roma | |
|----------------|--|
| Rome, Italy | |
| Opening: 2016 | |
| | |

Plans have been revealed for a 52,000seat stadium for Italian Serie A football club AS Roma, inspired by the world-famous ancient Rome Colosseum.

The proposed structure, design by London-based Woods Bagot, will allow Roma to move out of its current 72,000capacity stadium which is also home to rivals Lazio. The site, to be located on the riverside at Tor di Valle south west of Rome's city centre, will feature a hydraulic lift similar to that of the original Colosseum - to allow players entering the field of play a dramatic entrance while a canopy will cover all stadium seating. The design will also allow retractable stage canopies, rigging and turf protection systems to allow the arena to be temporarily converted into a 60,000-capacity concert venue. The new €300m (£246m, US\$417.8m) stadium is planned to open in 2016. The stadium plans were part of a deal announced by Roma owner James Pallotta and his Boston-based Raptor Group in 2012 upon his takeover of the club. Details: http://lei.sr?a=i9N7r

Orlando City SC

Orlando, US

Opening: 2016

Major League Soccer side Orlando City SC has announced that sports architecture specialists Populous will work as lead architects on its proposed 18,000-seat stadium, while Barton

Malow will oversee development on the planned downtown project.

The US\$84m (€60.5m, £49.9m) stadium project - a 50/50 public-private partnership - has seen US\$40m (€28.8m, £23.7m) pledged by the club with the remainder coming from various public contributions. The stadium will be operated by the City of Orlando. Details: http://lei.sr?a=p4J1t

STADIUMS | DEVELOPMENT PIPELINE



Nouveau Stade de Bordeaux

Bordeaux, France

Opening: 2015

Construction work is progressing on architects Herzog & de Meuro's new football stadium in Bordeaux, France, with the venue being completed in time for use in the Euro 2016 championships. Nouveau Stade de Bordeaux will provide seating for



A jungle of white columns are featured

up to 42,000 spectators, with an expected competition date due in 2015 to provide adequate preparation time for the next UEFA European Championship (EURO 2016) a year later.

The construction of the project is expected to cost around €168m (US\$229m, £136m), with ground originally being broken in 2013.

The uniquely designed stadium includes a jungle of white columns on the exterior supporting the stadium's bowl, which ensures maximum flexibility and optimal visibility for fans through the use of specially tailored design principles, while the green belt district venue will be surrounded by green areas and vegetation.

The site will also become the new home of Ligue 1 side FC Girondins de Bordeaux, with the club giving up its current home in the Stade Chaban-Delmas once construction work is complete. Details: http://lei.sr?a=B5G5I

Don Valley Stadium

| Sheffield, UK |
|---------------|
|---------------|

Opening: TBC

Plans to create an Olympic Legacy Park on the site of the former Don Valley Stadium in Sheffield are a step closer after Sheffield Eagles rugby league club secured a £6m funding package towards the project.

A joint venture between Sheffield Hallam University, Sheffield Teaching Hospitals, Sheffield City Council and the private sector, the development will include a community stadium - the new home for the Sheffield Eagles – a hotel, restaurant and a 3,000-capacity indoor sports arena. The arena will become the new home for the Sheffield Sharks basketball club. According to a spokesperson for the Eagles, the club hopes to move into the new stadium in 2016 – if planning is secured on time.

The venue will have a 4G artificial playing surface to allow community use and facilities will be developed in partnership with UTC Sheffield – University Technical College.

Former Sheffield MP and sports minister, Richard Caborn, has been one of the driving forces behind the Olympic Legacy Park project.

Sheffield has already received £10m from the government for Olympic legacy developments at Graves and Concord. The historic Don Valley athletics stadium was demolished in the summer of 2013 as part of council budget clubs. Details: http://lei.sr?a=U6T7D

DEVELOPMENT PIPELINE | STADIUMS

New Vikings Stadium

Minnesota, US

Opening: 2016

The construction of the new Minnesota Vikings stadium has been given a further boost after the venue was awarded the 2018 NFL Super Bowl.

Expected to be operational by 2016, the Vikings Stadium has been designed by architects HKS, along with a Vikings Stadium Consortium made up of Studio Hive, Studio Five & Lawal Scott Erickson Architects.

The 65,000-capacity stadium, thought to be running up a cost of around US\$1bn (€733.9m, £594.7m) is to be the first NFL venue with a fixed roof since the Detroit Lions opened Ford Field in 2002.

The venue will have a translucent roof and movable front windows, with these considerations allowing natural light to enter the stadium, as well as giving fans a view of downtown Minneapolis.

Although the stadium will be the principle home of the Vikings, an expandable seating plan will turn the venue into a 73,000-capacity space to cater for large-scale events. Details: http://lei.sr?a=s7v3G



The venue will host the 2018 Super Bowl



The stadium will become a landmark in the Azerbaijani capital city of Baku

Baku Olympic Stadium

Baku, Azerbaijan

Opening: 2015

Designed by Turkish architects TOCA in partnership with South Korean specialists Heerim, the Baku Olympic Stadium is set to become a prominent landmark in Azerbaijan.

The architectural character of the 68,000-capacity venue is formed by five

interlocked shells with the circular platform placed on the asymmetric coverings. The five piece structure which forms the outer shell represents the five circles of the Olympic flag – and celebrates the stadium's hosting of the first ever European Games in 2015.

As well as hosting the inaugural "European Olympics", the stadium will be the new home for the Azerbaijan national football team and work be funded entirely by the State Oil Company of Azerbaijan.

| Hristo Botev stadium |
|----------------------|
| Plovdiv, Bulgaria |
| Opening: 2015 |

Bulgaria's Botev Plovdiv football club has revealed new designs for the reconstruction of its Hristo Botev stadium. Designed to meet UEFA's Category 4 standards, the 18,900-capacity stadium is being completely rebuilt and is set to open in time for the 2015-16 season.

As part of the works, more than 75 per cent of the stadium's seats will be



The stadium will meet UEFA standards

covered and the stadium will receive a new name. Funding for the redevelopment was provided by club owner, entrepreneur Tzvetan Vassilev.



The expansion of the Main Stand will be the first phase of the £150m Anfield redevelopment project

Anfield redevelopment

| Liverpool, UK | |
|---------------|--|
| Opening: 2016 | |

Liverpool Football Club (LFC) has revealed plans for a new look Anfield stadium, set to boost capacity by 13,300 seats at a cost of £150m (US\$252m, \in 182m).

Redevelopment of the historic Anfield's Main Stand – designed by architectural firm KSS – will add 8,500 seats while the Anfield Road Stand will have an additional 4,800 seats installed, bringing total stadium capacity up to 58,800. Facilities management and construction services provider Carillion has been named preferred bidder for the ambitious expansion works. Carillion will also be responsible for all of the associated public realm improvements.

The football club is now in consultation with local residents and fans with plans to submit a planning application to Liverpool City Council during the summer. If permission is granted, work on the proposed Main Stand could begin early next year with the aim of completing it in time for the 2016-17 season.

The work is part of a larger £260m (US\$436m, €316m) plan to transform the area around Anfield into a mixed-use leisure hub. Proposals include the creation of a

wide avenue through the adjacent Stanley Park, which wil end in a new public square area with a memorial to the 96 Liverpool fans who died in the Hillsborough disaster of 1989. Also included is the construction of a new primary school, health centre, 250 new homes and a 100-bedroom football-themed hotel as well as a new business hub.

However, 296 properties in the area adjacent to the stadium will have to be demolished to make way for the planned developments. Over the years, Liverpool FC and Liverpool City Council have bought a number of houses that have since entered a state of decay ahead of the planned expansion. Details: http://lei.sr?a=X1L7F

DEVELOPMENT PIPELINE | STADIUMS

Headingley Cricket Ground

Leeds, UK

Opening: 2019



The plan will be implemented over 20 years

Yorkshire County Cricket Club (YCCC) has unveiled plans for a 20-year, £50m (US\$83m, €61m) expansion of Headingley, Leeds, in order to safeguard the ground's status as an international venue.

The project, drawn up between the club, Leeds City Council, Leeds Rugby and DLA Architecture, will see the ground's capacity increased from 17,090 to 20,362 and consist of six phases.

Once complete, the stadium will feature a new pavilion, as well as a shared stand with the adjoining Leeds rugby ground. Other new features include new floodlights, roofing and landscaping of the ground's concourses. The first phase of the development will see new floodlights installed by the start of the next domestic cricket season, while adjustments to increase capacity following the creation of a shared £15m (US\$25.1m, €18.4m) stand should be finished by 2019. Details: http://lei.sr?a=e5i7B



Artist's impression of how the new third tier would look

Etihad Stadium expansion

Manchester, UK

Opening: 2015

Manchester City Football Club (MCFC) has gained planning permission in February to extend the capacity of its Etihad Stadium, with engineering firm Laing O'Rourke overseeing the construction.

An integrated Laing O'Rourke Group team will carry out the expansion, with work starting at the beginning of April.

New imagery recently released by MCFC includes versatile signage on the stadium facades and some interior shots.

The extension works, designed by architects Populous, are expected to cost £50m and will be undertaken in two phases. The work will result in the venue having a capacity of 60,000 (up from the current



The expansion will add around 12,000 seats

48,000) - making it the second largest in the English Premier League behind Old Trafford (capacity 75,811).

The first phase of construction, which will be completed in time for the 2015-16 season, will see the South Stand expanded by around 6,000 seats. The second phase, development of the North Stand, will then Details: http://lei.sr?a=A7y3j



Tokyo Olympic Stadium

Tokyo, Japan

Opening: 2019

Japanese sports chiefs have green lighted Tokyo's controversial stadium development for the 2020 Olympic Games.

Despite fierce opposition from some of Japan's most prolific architects, including the former Pritzker Prize winner Toyoo Ito, plans for the Tokyo Olympic Stadium have been given the go ahead. The government-affiliated Japan Sport Council has released new design proposals reducing the project's size by more than 20 per cent and cutting the estimated cost to ¥162bn (US\$1.58bn, €1.16bn, £0.94bn).

The 2020 stadium, masterminded by Zaha Hadid, will now be a downsized version of her original 'bike helmet'-style plan. Tokyo's current National Stadium is to be dismantled and Hadid's creation is to be built in its place, increasing the number of seats from 54,000 to 80,000, despite the downsizing of the development overall.

The green-lit proposal shrinks the overall space of the stadium to 222,600sq m (730,314 sq ft) in total. The main areas to be pared down are the media facilities and display rooms. The height of the stadium has also been lowered. At its highest point, the building has been reduced from 75m (246 ft) to 70m (230 ft).

If the proposal succeeds, the stadium is expected to be open in 2019 – in time for the rugby World Cup and then one year later for the Olympic Games.

Originally costs were put at CN¥300bn – something which attracted further criticism from the stadium's opposers. Details: http://lei.sr?a=4K2i7 Everton stadium

Liverpool, UK

Opening: TBC

Everton Football Club officials believe they have identified a site for a new 50,000-seat stadium to replace its current home of Goodison Park.

The club revealed plans in 2010 to build a £120m (€150m, US\$202m) 50,000-seat stadium in Kirkby as part of a £400m mixed-use development, but plans were rejected by the government.

The new site sits within the boundaries of Liverpool and the club is now consulting with Liverpool City Council to see if the new plan can get the go-ahead. Details: http://lei.sr?a=a0C3j

DEVELOPMENT PIPELINE | STADIUMS

University of Notre Dame stadium

Notre Dame, Indiana, US

Opening: 2018

The American University of Notre Dame's 80,000-seater football stadium in Indiana is to undergo a US\$400m (£242m, €295m) expansion to improve facilities and increase the stadium's size.

The development of the venue will create 4,000 new seats and three large buildings will flank the arena sides, with the buildings adding about 750,000sq ft (69,677sq m). It will also house a student centre and the university's anthropology and psychology departments.

Construction is slated to begin in 2015 and is expected to take three years to Details: http://lei.sr?a=t8b2v

Atlanta Braves

Atlanta, US

Opening: 2017

The Atlanta Braves baseball team has moved a step closer to sealing a move to its future home after Cobb County Commissioners gave unanimous approval for American Builders 2017 to operate as construction manager for the new ballpark.

American Builders 2017 will oversee the build on the new 41,500-capacity US\$622m (€456m, £371.5m) stadium, which will include restaurants, retail outlets, residential, office space and a boutique hotel as part of the mixed-use development. Details: http://lei.sr?a=F6R4G



The stadium capacity is expected to increase to 84,000 through the expansion

Cornwall Rugby Stadium

Truro, UK

Opening: TBC

Development company Inox has tabled proposals for the long awaited Stadium of Cornwall to be built at Threemilestone near Truro. Inox, which has already gained outline planning permission to build the stadium, has now secured an option on an additional 35 acres of land adjoining

Langarth Farm.

The additional space is to be used for a commercial development which, in turn, will fund the £15m, 10,000seat stadium project. Facilities will include physiotherapy suites and full training facilities for able-bodied and disabled athletes. The stadium will also be made available for public use.

Though no team has as yet been confirmed to be moving into the stadium, a trio of clubs – consisting of the Cornish Pirates rugby team, Truro City Football Club and Truro Fencing Club – have all expressed their interest in relocating to the planned stadium. Details: http://lei.sr?a=b1k9e



The new stadium has been designed by the Miller Partnership

STADIUMS | DEVELOPMENT PIPELINE



The design of the stadium - created by local architects - mimics a traditional nomadic tent

Al Bayt stadium

Al Khor, Qatar

Opening: 2018

Initial designs have been revealed for the proposed 60,000-capacity AI Bayt stadium in AI Khor district, Qatar. The stadium is set to host one of the two semi-finals during the FIFA World Cup in 2022 – if the gulf state keeps its right to host the tournament following investigations into corruption.

Clearing work has already begun on the site of the stadium and construction is set to be completed by 2018. Similar to the London 2012 Olympic Stadium, the structure will have an upper layer of removable seats that will be taken away after the World Cup in 2022, reducing the capacity of the stadium to 32,000 in legacy mode.

According to the Supreme Council for Delivery and Legacy (the organising committee for the 2022 World Cup), the removable top tier and its modular parts will be donated and used to build stadiums in countries around the world that "lack adequate sporting infrastructure".

The facility will also take up ethical building techniques, complying with LEED and Global Sustainability Assessment System (GSAS) ratings, using renewable energy methods for the stadium itself as well as the surrounding area. Details: http://lei.sr?a=J0U3D

Brentford FC stadium

| London, | UK |
|---------|----|
|---------|----|

Opening: TBC

Willmott Dixon has been named the preferred development partner by Brentford Football Club for its new 20,000-seat stadium in west London.

The new stadium plans will see Brentford move from its current home of Griffin Park – the club's home since 1904 – and move to the new location on Lionel Road South.

The new venue will be partly funded by the construction and selling of 910 new homes, which will be built adjacent to the new stadium and on the site of Griffin Park after it has been demolished. The surrounding area will also be regenerated with improvements made to the local environment and infrastructure.

Plans are for the stadium to be completed in time for the 2016-17 football season while the homes will be built over a six-year period.

The project was masterplanned by FaulknerBrowns architects, while AFLS+P did the stadium design. Planning consent for the development was approved in December 2013. Details: http://lei.sr?a=N2YOf



Brentford is to leave its home of 100 years

Feyenoord Stadium

Rotterdam, Netherlands

Opening: 2018

Plans for a €177m (US\$240.6m, £143.5m) 17,000-seat addition to Dutch football side Feyenoord's new ground have been rejected in favour of a brand new 70,000-all seater stadium costing €200m (US\$271m, £162m).

The newest set of plans – proposed by a consortium of BAM, Eneco Energie and Siemens – will see a brand new 70,000-all seater stadium built at a cost of €200m (US\$271m, £162m).

Red Kuip – a fan backed plan – would have seen adjustments made to the current stadium, increasing capacity by nearly 17,000 with a new third tier.

Following four months of research into the proposed projects, Feyenoord opted to explore the consortium's option, which was described as "the most promising" and will now focus "all the effort and attention" towards those plans.

The new development plans would make the stadium the largest in Holland. Building work is planned to start in Q3 of 2015, with a completion date set for 2018. Details: http://lei.sr?a=W2U9b



Several other proposals fell through



Nou Camp redevelopment

Barcelona, Spain

Opening: 2021

Barcelona FC's board of directors has rejected the option of building a new stadium and instead has approved a £495m (US\$821, €602.2m) redevelopment of its iconic Nou Camp stadium. The club has plans to increase the capacity of Europe's biggest stadium from 98,000 to 105,000 with work starting in 2017 and completed in early 2021.

Also planned for the remodelled stadium, which originally opened in 1957, is a new roof, which would be added to the current open structure, new restaurants with a view of the pitch and a steeper bottom tier to improve visibility for spectators.

"It was a difficult decision," said Barcelona president Sandro Rosell. "The two projects were very attractive but we were



The historic stadium will be transformed

committed to put to a referendum a project that was viable from a technical, urbanplanning and economic perspective.

"To maintain our status as leaders we have to take this historic step which will require effort from everyone involved but which will guarantee the comforts that come with a new installation with the latest technologies at the service of its users and athletes." Details: http://lei.sr?a=K4p9Z



Europa Point stadium

Gibraltar

Opening: 2016

The Gibraltar Football Association's (GFA) plans for a stadium have faced a number of challenges – not least after it was ordered by the Development and Planning Commission (DPC) to cease "unauthorised work" being carried out on the proposed Europa Point stadium.

Opinion has been divided on the project with some stating that Europa Point – one of the only open flat spaces still left in Gibraltar – will be ruined, as will the panoramic views of the Strait, Morocco and Spain as well as lead to significant traffic problems on match days.

Architects Fenwick Iribarren, say that the stadium will be a multi-purpose venue that will host school sports days, have an area

for old age pensioners, a medical centre for sports related injuries and a sports library.

The GFA is aiming to officially open the venue in 2016 with a view to hosting international games. The British territory's football team currently uses the Victoria Stadium – which does not meet FIFA's regulations to host international football matches. Gibraltar, which is also aiming for FIFA membership in time to play in the qualifiers for the 2018 World Cup, is looking to build an 8,000-capacity stadium at at the coveted Europa Point on the south of the island. The stadium will also be used for music concerts.

The 23,000sq m (247,500sq ft) football ground will feature a 105m x 68m grass pitch and will come complete with full medical and media facilities, as well as spaces for catering or retail outlets and the GFA's official headquarters. Details: http://lei.sr?a=Y610D

Craven Cottage

London, UK

Opening: 2015

Fulham Football Club has been granted a river works licence to enable it to progress on a redevelopment of its Riverside Stand.

The expansion will see stadium capacity increased to 30,000 seats from 25,000 with the new stand designed to mirror the bend in the river. The new stand will also provide facilities for community and other uses on non-match days.

Architects KSS Group has been chosen for the redevelopment, with the rebuild cost being kept confidential. Details: http://lei.sr?a=h5Y3h

DEVELOPMENT PIPELINE | STADIUMS



Bill Snyder Family Stadium

Kansas City, US

Opening: 2015

Phase three of a masterplan for the Bill Snyder Family Stadium in Kansas, US, has been unveiled with a proposed new football complex designed by sport architects Populous.

The latest phase of the project is estimated to cost US\$65m (£38.3m, €46.6m) and will feature a new 250,000sq ft (23,000sq m) Vanier Football Complex structure with the aim of maintaining and securing Kansas State's competitive future and enhancing the overall experience of K-State student-athletes. The development will also include a new north end zone seating area and northwest video board. The first phase of development on the project was completed prior to the 2011 football season, with the addition of restrooms to the east-side upper deck and a new AstroTurf playing surface on Wagner Field. Phase two was completed in late 2013, with the opening of the US\$90m (\pounds 52.9m, \pounds 64.5m) AECOM-designed West Stadium Centre.

"With more than U\$125m (£73.5m, €89.7m) of facility improvements completed in the last 24 months and the growing excitement of our fans – evidenced by the current string of 13 consecutive football sellouts – it's imperative that we build on the tradition and success of our programme under coach Bill Snyder's leadership and the passion of our fan base," said athletics director John Currie. "This new facility and seating enhancements will show that we are fully committed to furthering our position as a leader at the highest level of intercollegiate athletics."

Populous will lead the project in conjunction with the construction management team of Mortenson & GE Johnson Construction. With continued momentum in the funding campaign, K-State's goal is to break ground following the 2014 football season, aiming for completion in time for the 2015 football season.

The masterplan for the development is expected to take fifteen years to complete from the August 2011 completion of phase one. Phases four, five and six still remain in the planning stages.

Details: http://lei.sr?a=b2F9a

STADIUMS | DEVELOPMENT PIPELINE



Bristol Rovers has already been given planning permission to proceed with its new stadium

Bristol Rovers Stadium

| Bristol | , UK |
|---------|------|
|---------|------|

Opening: TBC

An application to list Bristol Rovers stadium in Horfield as a war memorial has been rejected by English Heritage.

The club is planning to sell off the stadium, which will be turned into a supermarket, to finance the £40m (US\$67m, €50m) purchase of a new home ground at Frenchay.

There has been significant opposition to the proposed ground switch by a small group of protesters, with a legal battle over Sainsbury's plans to redevelop Horfield, allowing Bristol Rovers to build a new 21,700 seat stadium nearby. The large gates to the stadium, which date to 1921, are currently listed by English Heritage. They include inscriptions which pay tribute to the rugby and football players of Bristol who served during both World Wars and say the ground is a memorial to them.

Campaigners argue the entire ground should be officially recognised as a war memorial but English Heritage has advised the ground does not have the architectural or historic interest to merit listing it.

The new venue will feature a bowl design and will meet all FIFA and International Rugby Union standards, with facilities including a 1,280sq m (13,778sq ft) gym, a 784sq m (8,439sq ft) supporters club bar, a jogging track and a hospitality suite. Details: http://lei.sr?a=p2G4e

Casement Park

Belfast, Northern Ireland

Opening: 2016

A residents' group has issued a formal objection to the proposed £70m (US\$118m, €88m) Casement Park stadium.

The Department of Environment has received a letter of objection from west Belfast's The Mooreland and Owenvarragh Residents' Association (MORA). The residents' group is opposing the plans on the grounds of "quality of lives, major restrictions during major events and value of properties will be greatly affected." Work on the 38,000 all-seater stadium is due to start in early 2014 with a view to hosting GAA Games (Gaelic Athletic Association) in 2016.

A spokesperson from Ulster GAA said: "We remain totally committed to the redevelopment of the Casement Park stadium to meet the strategic needs of the GAA in Ulster. Ulster GAA is committed to ensuring the Casement Park redevelopment has a significant and positive economic and social impact on the local area." Details: http://lei.sr?a=X4P2n



The stadium is awaiting planning approva

Scunthorpe United

Scunthorpe, UK

Opening: TBC

Scunthorpe United Football Club (SUFC) has revealed ambitious plans for a new 12,000-capacity stadium.

SUFC chair, millionaire businessman Peter Swann, has been keen to provide the club with a new home and move from the 9,000capacity Glanford Park to increase the club's commercial opportunities. To be located close to the club's current Glanford Park ground, the 'Iron Arena' is set to be developed as part of a mixed-use project including a 120-bedroom hotel, a multi-use indoor arena, community sports pitches and a new transport hub.

The initial designs and master plan have been created by the Frank Whittle Partnership and include a sweeping curve on the main stand and a striking truss which pays homage to Scunthorpe's famous steelwork history. Details: http://lei.sr?a=v6s5R



Scunthorpe's new 12,000-seat stadium



The venue will meet UEFA category four standards, making it eligible for international games

Diósgyöri VTK Stadium

Santa Clara, US

Opened: August 2014

Hungarian top flight club Diósgyöri VTK (DVTK) has announced plans to build a new 15,000-seat stadium on the site of its current home in the city of Miskolc.

In a statement, a spokesperson said the new stadium will cost HUF6.5bn (US\$27m, \notin 21m, £16m) to build and the club is expecting to move to the new venue in 2016. The new venue will meet UEFA category four standards for stadiums. During the construction, DVTK will host its home matches at a different stadium which will provide the side with a seating capacity of just above 5,000.

As part of the project, the club will also build a new centre of excellence for youth

players. Exact details of the stadium facilities are to be confirmed later this year, but plans include a large club shop and a museum.

Tamas Szabo, managing director of DVTK, said: "Our goal is to make DVTK one of Hungary's dominant football teams in the not so distant future. For us to be able to compete in European competitions, it is necessary that we invest in our infrastructure – of which the youth centre is part of."

The mayor of Miskolc, Kriza Akos, said the development would not benefit just the club but the Miskolc region on the whole.

• Miskolc is the third largest city in Hungary, following the capital Budapest and Debrecen. Budapest was recently named as one of the host cities for UEFA's Euro 2020 championships. Games will be played in the new national stadium that is still to be built. Details: http://lei.sr?a=p5R3e

STADIUMS | DEVELOPMENT PIPELINE

QPR new stadium

London, UK

Opening: TBC

Queens Park Rangers Football Club has unveiled plans for a new 40,000-seater stadium as part of a major regeneration project of the Old Oak area in west London, UK.

The new area, which has been provisionally called New Queens Park, will see the stadium built alongside a new residential area with 24,000 homes and a commercial space to include a 350-bedroom luxury hotel, studios, offices, cinemas and restaurants.

The plans follow London mayor Boris Johnson's announcement that turning Old Oak into a new world-class city quarter is to be one of his main regeneration priorities for the city and that a Mayoral Development Corporation (MDC) – only

New York City soccer stadium

New York, US

Opening: TBC

Artist's impressions, claiming to show detailed plans for a new football stadium in New York, US, have emerged on the imgur.com photo sharing website.

The plans purport to show the new home of the New York City Football Club (NYCFC) – a new franchise due to enter Major League Soccer (MLS) in 2015.

NYCFC was announced as the MLS's 20th franchise in May 2013 and is a joint venture between English Premier League side Manchester City and the New York Yankees – the Major League Baseball team.

The leaked images show the location of the new stadium as Pier 40, a man-made island on the west side of Manhattan close



The new stadium is part of a major regeneration project for the whole area

the second after the Olympic Park development – is to be set up to promote it. Thew new area – which will be larger than the Canary Wharf financial district – is expected to generate 50,000 new jobs.

to Soho and Greenwich Village. Pier 40 currently hosts a large artificial turf arena and two purpose-built soccer pitches.

Earlier, NYFC officials confirmed they had opened talks to build a stadium in Flushing Meadows-Corona Park in Queens. Details: http://lei.sr?a=a0i6f



NYFCF is to be the MLS's 20th franchise

Over the coming months, the club will be working closely with architectural firm Populous to come up with initial design concepts for the proposed new stadium. Details: http://lei.sr?a=r0y7R

Perth Stadium

Perth, Australia

Opening: TBC

A consortia has been selected as the preferred bidder for the new Perth Stadium and Sports Precinct project in the Western Australian city. Westadium secured the contract to design, build, finance and maintain the AU\$1.1bn venue, which is set to open in time for the 2018 Australian Football League (AFL) season.

The stadium will have seating for 60,000 spectators but its design will allow capacity to be extended to 80,000 in the future. Details: http://lei.sr?a=q8B8P

DEVELOPMENT PIPELINE | TRAINING & SPORTS CENTRES

Newcastle United academy

Newcastle, UK

Opening: 2016

Newcastle United Football Club has unveiled plans for a new state-of-the-art training complex as part of a multi-million pound redevelopment of the club's existing 35-acre training ground site.

According to an announcement on the club's website, the current intention is that work will get underway in May 2015 and should be completed in early 2016.

While existing training pitches and a modern indoor training hall will be retained, the club's current training centre building will be demolished and replaced by a much larger structure.

This will accommodate newlydesigned changing, training, rehabilitation, medical, leisure and catering facilities, plus a 20m swimming pool, a hydrotherapy and fitness pool and specialist equipment to aid injury prevention and recovery.

The project will also create a fitness centre double the size of the club's existing gymnasium, as well as administrative space, a presentation suite for match analysis and a new media suite. Details: http://lei.sr?a=j3P6S



Work will begin in May 2015



The complex will include a 7,000-capacity stadium and 17 full-size pitches

Manchester City Academy

Manchester, UK

Opening: 2014

Manchester City Football Club (MCFC) has unveiled details of its plans to develop a new £100m (US\$168m, €126m) training and education complex next to its Etihad Stadium.

BAM Construction, part of the Royal BAM Group, has been selected to build the 80-acre City Football Academy which will include a 7,000-capacity stadium, 17 full-size football pitches, an academy building with classrooms, a sports science centre and a dedicated media centre.

The site is currently being prepared for building work to start and the complex is expected to be completed in time for the 2014-15 Premier League season. MCFC has also donated 5.5 acres of remediated land on the site for community use, and is also supporting the creation of education and leisure facilities for local residents.

The site will be linked to the Etihad Stadium – MCFC's current home – by a footbridge and will enable players, staff and officials to be housed on the same complex.

The project has the full support of Manchester City Council (MCC) as a major part of the development is providing opportunities and boosting local business in the east of the city.

Sir Richard Leese, leader of MCC, said: "This project lies at the heart of the ambitions we share with Manchester City Football Club -to create a centre of sporting excellence that will be the envy of the world of sport." Details: http://lei.sr?a=G0F5G

TRAINING & SPORTS CENTRES | DEVELOPMENT PIPELINE



National Performance Centre

Edinburgh, Scotland

Opening: 2016

Bids are now being invited from contractors for the £25m (US\$42m, €31m) National Performance Centre for Sport (NCPS) at the Heriot-Watt University in Edinburgh.

Heriot-Watt was named the home of NCPS in September 2013 by the Scottish government following a lengthy bidding process.

It is hoped a contractor will be named soon with construction due to start later this year. The centre is expected to open 2016. The Centre will offer an indoor full sized 3G football pitch with seating for 500, a full sized Hampden grass pitch with seating for 500, a synthetic 3G pitch, two goalkeeper training areas with floodlights, two grass rugby pitches, five grass football pitches and three outdoor tennis courts.

Indoor facilities include a nine court sports hall, a 100 station fitness suite, hydrotherapy, strength and conditioning and treatment areas, office accommodation for governing bodies and also incorporate the existing facilities at the University's Centre for Sport and Exercise. Details: http://lei.sr?a=R101p

Fleetwood Town stadium

Fleetwood, UK

Opening: 2015

League One side Fleetwood Town FC has been granted planning permission to start work on a new £6m (US\$10m, \in 7.5m) training complex.

Designed by architects Croft Goode, the facility will become home to Fleetwood Town's first team, Thornton-Cleveleys FC and members of the local community.

The site, based on Poolfoot Farm in Thornton, Lancashire will house a full-size 3G pitch, as well as a number of grass pitches, associated changing rooms, classroom facilities and other community facilities. The facility – three miles from the home ground at Highbury – will take around a year to build. Details: http://lei.sr?a=a7c4H Bolton Wanderers stadium Bolton, UK Opening: TBC



Plans include an academy for youth

Bolton Wanderers Football Club has been granted outline planning permission to build a £100m (US\$168m, €126m) sport, education and office development after plans were approved by the local council.

The club announced plans last year to create a new free sports academy, along with retail outlets, 200 apartments, a 60-bedroom hotel and an office block with restaurants and hospitality suites as part of the club's "Middlebrook Masterplan".

The plans also include an as-yet unannounced expansion to the soon to be renamed Reebok Stadium.

Councillors approved the plans, despite concerns over other developments being affected, including the nearby Church Wharf regeneration project in Bolton town centre. The project has been overseen by The Environment Partnership (TEP) to provide ecology, landscape and environmental assessment, though at present, no contractors or architects Details: http://lei.sr?a=g7G1S

Tennis Hall of Fame

Newport, US

Opening: 2016

The International Tennis Hall of Fame & Museum in Newport, Rhode Island, US, is set to invest US\$15.7m (£9.3m, \in 11.4m) in the first phase of an expansion project to upgrade its visitor and playing facilities.

The museum will gain new technology and exhibitions as part of the upgrade, while additional tennis courts will be installed and facilitywide improvements will be made, including the tennis stadium.

The Hall of Fame hosts several tournaments, including the Hall of Fame Tennis Championships. Part of the ATP World Tour, the tournament is the only grass court event in North America.

The plans also look to revitalise the streetscape while a new building to house locker rooms, a fitness area, retail space and Hall of Fame offices is also in the works. The 4,000-seat tennis stadium, Newport Casino, is a designated National Historic Landmark, while the facility also houses a number of shops, restaurants, offices and a theatre. Details: http://lei.sr?a=G1h0s



US\$15.7m is being spent on the first phase



USTA Billie Jean King National Tennis Centre

New York, US

Opening: 2021

The US Tennis association (USTA) is close to completing a US\$450m (€330.9m, £265.1m) bond sale which will fund the ongoing renovation of the USTA Billie Jean King National Tennis Centre.

The bond sale will allow the USTA to make US\$550m (€404m, £324m) of construction and renovation works that will see a retractable roof constructed on Arthur Ashe Stadium and a new, 15,000seat Louis Armstrong Stadium eclusively for tennis (also with a retractable roof) built. The plans will allow more than 10,000 additional tennis fans to attend the US Open and will also improve facilities all year-round in all weather conditions.

Work was scheduled to start in Q3 2013 and will take eight years to complete.

The first development will see the practice court area rebuilt, while the tennis centre's Louis Armstrong Stadium redevelopment is scheduled to be the final phase of work of undertaken.

Located at Flushing Meadows, the tennis centre spans 42 acres and contains indoor and outdoor tennis facilities available for public use. The US Open generates more than US\$750m (\$468.2m, €574.3m) a year in economic activity. Details: http://lei.sr?a=g0O1G

TENNIS | DEVELOPMENT PIPELINE



The new centre will seek to further the progression of tennis in America

Lake Nona tennis centre

Orlando, US

Opening: 2017

The United States Tennis Association (USTA) is planning to build a US60m (44.1m, 35.7m) training complex to be located in in Orlando, Florida.

The 63-acre project will be based in the Lake Nona area, supplying USTA and its members with the use of over 100 courts.

The centre will house the USTA's Community Tennis and Player Development divisions, which are primarily based in New York.

The development has been devised in order to bridge the gap between promising young players and elite professionals, with the complex boasting a tournament and league area with 40 hard and clay courts and player pavilions.

This area will also feature a tournament administration office that will include trainer rooms, a stringer area, player lounge, public restrooms and a check-in area.

Also proposed are 12 courts for intercollegiate use, allowing for the University of Central Florida to host its home matches there.

To ensure progression for talented youngsters, the base will feature 16 courts, which are dedicated to the development of up and coming tennis players.

The USTA hopes that the centre will be opened in late 2016, or by early 2017 at the very latest. Details: http://lei.sr?a=r1A6H

Olympic Tennis Centre Rio

Rio de Janeiro, Brazil

Opening: December 2015

A warm up event for the Rio 2016 Olympic Games has been postponed by four months, thanks in large part due to delays in construction on the new Olympic Tennis Centre.

The test had been initially scheduled to take place in August 2015 but will now be held in December of that year.

International Olympic Committee vice president John Coutes said Rio de Janeiro's preparations for the 2016 summer games were the "worst he'd ever seen," with rumours swirling that London had been contacted as a back up to host the event should preparations in Rio fall through. The US\$46m (€33.8m, US\$27.1m) Rio tennis facility - designed by AECOM - will have a 10,000-seat center court, two temporary stadiums that can seat 5,000 and 3,000 spectators and support and warm-up courts that hold 250 people. The facility is scheduled to hold the tennis events for the 2016 Summer Olympics, and the wheelchair tennis events for the 2016 Summer Paralympics. The Olympic Tennis Centre will be part of the Olympic Training Centre (OTC), a key legacy of the Rio 2016 Olympic Games.

Other structures being created for the 2016 event include the Olympic Aquatics Stadium, Olympic Hall, Olympic Velodrome and a golf course. Details: http://lei.sr?a=0B8N7

Pontypridd Lido

Pontypridd, UK

Opening: 2015

Work has started on the £6.3m (US10.6m, \in 7.9m) transformation of a derelict lido in Pontypridd, Wales, which will be transformed into a modern swimming facility.

The Grade-II listed lido was originally built in 1927 and was forced to close in 1991 after it fell into a state of disrepair. And now, more than 20 years later it will be given new life, with more tens of thousands of visitors predicted annually.

The new outdoor facility will be open around four to five months of the year and will house three heated pools, changing blocks and a new café. There will also be a new play area.

The project is receiving £3m (US\$5m, \notin 3.7m) in funding through the Welsh government, £2.3m from the Heritage Lottery Fund, £900,000 (US\$1.5m, \notin 1.1m)from Rhondda Cynon Taf council, and £100,000 (from Welsh heritage body Cadw. The work is due to be completed in Q3 2015. Details: http://lei.sr?a=V9x7V



The historic lido is being redeveloped



The ageing centre is set to undergo a full redevelopment and restoration

Mandurah Aquatic and Recreation Centre

Mandurah, Australia

Opening: TBC

Attracting more than 650,000 visitors per year, the ageing Mandurah Aquatic and Recreation Centre (MARC) will receive a complete redevelopment costing AUS\$36m (US\$33.5m, €25m, £19.8m). Construction



work began in early 2014 and will provide an integrated sporting, aquatic and recreational facility.

The redevelopment will be completed in two stages. Stage one will include MARC's aquatic component – the building of a new 50m outdoor pool and the refurbishment of the existing 25m indoor pool – while stage two will focus on the sports centre. The City of Mandurah council, which owns the pool, has been working with Donovan Payne Architects on the project. Western Australia-based Perkins has been awarded the construction contract for the project.

The new 50m pool will be used for regional and national competitions as well as the general public and local swimming clubs. Details: http://lei.sr?a=O8F6V

Work on the AU\$36m structure began in early 2014 with a completion date scheduled for early 2016


UBC Aquatic Center

Vancouver, Canada

Opening: TBC

Construction is underway on the University of British Columbia's (UBC) new CA\$40m (US\$36m, \in 27m, \pm 21.6m) Aquatic Centre in Vancouver. The new centre will house a 50m Olympic-sized competition pool, 25 metre lap pool, a 350sq m warm-water family pool with a lazy river, and a large hot tub. The facility will offer a mix of student and community programs, high performance training and competition, student clubs, lessons and drop-in use.

Designed by Toronto's MacLennan Jaunkalns Miller Architects and local architects Acton Ostry, the aquatic centre is expected to open in September 2016. As well as having seating for 500 people, the 50m main pool will feature a moveable bulkhead. The bulkhead can split the pool into two smaller pools at any point along its length for community programming.

The centre will replace UBC's current pools, which require major upgrades. UBC Adecided that a new Aquatic Centre would be more financially sustainable than renovations. Details: http://lei.sr?a=F6F9G

Green Square Aquatic Centre

Sydney, Australia

Opening: TBC

A shortlist of architects has now been established for the Green Square Aquatic Centre in Sydney, Australia. The centre will form part of the commercial, retail and cultural heart of the AU\$8bn greater Green Square redevelopment - one of the largest ever urban renewal projects in Australian history.

The five finalists are all from Sydney – Andrew Burns; Cullinan Ivanov Partnership; CHROFI & McGregor Coxall; Andrew Burges Arhitects; and TYP-TOP Studio (Andrew Daly and Kevin Liu). Short-listed designs include sunken pools surrounded by wetlands evoking the region's pre-industrial heritage and a moonlight cinema. When complete, the AU\$50m aquatic centre will include an outdoor 50m swimming pool, an indoor 25m pool, a leisure pool, a hydrotherapy pool and a gym facility. Details: http://lei.sr?a=k3M6d

DEVELOPMENT PIPELINE | EXTREME SPORTS

The Wave Bristol

Bristol, UK

Opening: 2015



The £6.4m lake can produce perfect waves

An inland surfing lake is on its way to becoming a major new sporting attraction in Bristol, UK, after the local authority granted planning permission late last week.

The Wave: Bristol is a £6.4m (US\$10.9m, €8m) scheme that includes a 300m by 150m surfing lake, capable of producing 120 perfect 1.6m (5.2ft) waves per hour, with each wave big enough for an experienced surfer to ride for 20 seconds. At the centre of the development will be a freshwater lagoon, which will use Wavegarden technology created by Spanish firm to replicate tidal movements.

The APG Architecture designs for the proposed site in Easter Compton near Bristol, were strongly backed by South Gloucestershire Council, which voted nine to one in favour, with one abstention, at a planning meeting.

"This is the culmination of three years' hard work and we are excited that South Gloucestershire Council has chosen to give it the go ahead," said cofounder of The Wave, Nick Hounsfield. Details: http://lei.sr?a=2J9u8

Skidome Denmark

Randers, Denmark

Opening: TBC

Denmark could become home to what is being billed as the world's largest ski dome facility, with plans being generated for a Skidome Denmark project to be based in the city of Randers.

Architectural firm CEBRA has designed the structure for ski travel agency Danski, with the facility potentially housing three kilometres of slopes arching over a river.

Designed in the shape of a six-arched snowflake, the Skidome would house six indoor slopes and two outdoor runs based over three centrally connected arches.

The project's slopes have been designed based on the popular pistes of the Alpe d'Huez ski resort in France, however the facility could make alterations to the runs to enable visitors to share a different experience each time they visit.

Not only do the venue's plans cater for winter sport enthusiasts, but there are also suggestions for an area to feature



The dome will offer year-round winter sport

skateboarding and BMX facilities – alongside a freestyle park – while other ideas include a green-space park potentially located on one of the facility's arches.

The conceptual designs for the 100,000sq m (1,076,391sq ft) venue could also lean towards the addition of a hotel, restaurant, shops and other sports and recreation facilities. Details: http://lei.sr?a=b6e1e



Plans for the facility have been designed by architectural firm CEBRA

EXTREME SPORTS | DEVELOPMENT PIPELINE



Surf Snowdonia

Snowden, UK

Opening: June 2015

Plans for a huge surf facility in Snowden, north Wales have been given the go-ahead after gaining unanimous consent from Conwy County Borough councillors.

To be built in Conwy Valley on the site of a former aluminium factory, Surf Snowdonia will feature a 30,000sq m (322,000sq ft) Wavegarden lake, 14,000sq m (150,000sq ft) wakeboarding lake, waterslide, restaurant, retail and indoor play facilities.

The attraction will also include accommodation, with low impact, sleeping 'pods' to be located along the lake's waterfront. Larger lodges will also be built and will retain the naturalistic character of the woodlands surrounding the lake.

The attraction aims to offer an authentic surfing experience with technology created by Spanish company Wavegarden creating consistent 6ft (1.8m) waves for surfers. Around 70,000 visitors and thrillI-seekers are predicted on an annual basis. Details: http://lei.sr?a=k3O4e

Isanti BMX

Minnesota, US

Opening: TBC

Plans have been tabled for a US\$1.6m (£1m, \in 1.2m) indoor BMX facility in the city of Isanti, Minnesota in the US, near an existing outdoor track.

The 72,000sq ft (6,689sq m) facility would be owned by the city and paid for through a city-issued 10-year bond scheme.

The facility will be the only one of its type within a 100 mile radius, with the official body for BMX in the US guaranteeing that it will not sanction any other new tracks in the region for at least the next 10 years. Details: http://lei.sr?a=E0L8O

Swansea Hatchery

Swansea Bay, UK

Opening: 2017

Swansea Bay could soon boast a tidal lagoon featuring an international watersport centre and oyster hatchery as part of radical new redevelopment plans.

London 2012 Olympic Park designer LDA Design has released its masterplan for Swansea Bay Tidal Lagoon, featuring the world's first, man-made energy-generating lagoon, which would provide clean, renewable power for over 120,000 homes and could be connected to the national grid by 2018. Inspired by traditional fishing warehouses and boat houses, design of the 4,000sq m (43,056sq ft) building for the watersport and hatchery centre has been developed by FaulknerBrowns as a key component of the lagoon.

The centre would provide a hub for both recreational and competitive sporting facilities, alongside sustainably focussed research and development of various marine industries. Details: http://lei.sr?a=F6Y9a



The plans are part of a larger lagoon scheme

INTERNATIONAL SPORTS EVENT CALENDAR

4 NOVEMBER 2014

Melbourne Cup

Flemington Racecourse, Melbourne, Australia The traditional thoroughbred horse race has

been held since 1861. www.melbournecup.com

3-7 DECEMBER 2014

Short Course Worlds

Doha, Qatar

The FINA World Swimming Championships is a swimming-only competition (no diving event) which is contested in a 25m pool. www.wscdoha2014.com

3-7 DECEMBER 2014

FIH Champions Trophy – women

Mendoza, Argentina

The 2014 Women's Hockey Champions Trophy will be the 21st edition of the prestigious competition for women. www.fih.ch

7-21 DECEMBER 2014

European Women's Handball Championship

Hungary and Croatia

The 11th tournament for women is the second to have been jointly hosted by two countries. http://huncro2014.ehf-euro.com/home

13-21 DECEMBER 2014

FIH Champions Trophy - men

Bhubaneswar, India

The 2014 Men's Hockey Champions Trophy will be the 35th edition of the trophy. www.fih.ch

4-26 JANUARY 2015

AFC Asian Cup

Australia

The Asian Cup, now in its 16th year, is run by the Asian Football Confederation and is Asia's most significant sporting event. The 2015 tournament will be the first time the event is being hosted outside the continent of Asia – by AFC member nation Australia www.afcasiancup.com

17 JANUARY - 8 FEBRUARY 2015

Africa Cup of Nations

Morocco

The 2015 Africa Cup of Nations, also known as the Orange Africa Cup of Nations Morocco 2015 for sponsorship reasons, is scheduled to be the 30th edition of the football championship of Africa. www.cafonline.com

19 JANUARY - 1 FEBRUARY 2015

Australian Open tennis

Melbourne, Australia

First held in 1905, the tournament is chronologically the first of the four Grand Slam tennis events of the year. www.ausopen.com

26 JANUARY - 1 FEBRUARY 2015

European Figure Skating Championships Stockholm, Sweden

The annual competition will gather the

continent's skating talent to compete for medals in four disciplines: men's singles, ladies' singles, pairs, and ice dancing. www.isu.org

1 FEBRUARY 2015

Super Bowl XLIX

Arizona, USA

The 49th edition of the Super Bowl and the 45th modern-era National Football League (NFL) championship game. www.nfl.com/superbowl/49

1 FEBRUARY 2015

Alpine World Ski Championships

Vail/Beaver Creek, USA

The annual FIS Alpine World Ski Championships are organized by the International Ski Federation (FIS).

www.vailbeavercreek2015.com

4-14 FEBRUARY 2015

2015 Winter Universiade

Granada, Spain

The XXVII Winter Universiade is an international multi-sport event, organised for university athletes by the International University Sports Federation (FISU). www.fisu.net

14 FEBRUARY - 29 MARCH 2015

ICC Cricket World Cup

Australia and New Zealand

A total of 49 matches will be played in 14 venues during the tournament, with Australia staging 26 games and New Zealand 23. Host cities are Adelaide, Brisbane, Canberra, Hobart, Melbourne, Perth and Sydney (Australia) and Auckland, Christchurch, Dunedin, Hamilton, Napier, Nelson and Wellington (New Zealand). www.icc-cricket.com/cricket-world-cup

9-12 APRIL 2015

Masters Tournament

Augusta, Georgia, US

The 79th edition of the historic Masters Tournament will be the first of golf's four major championships to be held in 2015. www.masters.com

11 APRIL 2015

Grand National

Aintree, UK

National Hunt horse race held annually at Aintree Racecourse in Liverpool, England. www.thecrabbiesgrandnational.co.uk

1-17 MAY 2015

IIHF World Championship

Czech Republic

The two venues for the annual ice hockey tournament will be the O2 Arena (formerly Sazka Arena) in Prague and ČEZ Aréna in Ostrava, the same two venues that co-hosted the 2004 IIHF World Championship. www.iihf.com

24 MAY - 7 JUNE 2015

French Open tennis

Paris, France

The French Open, often referred to as Roland Garros is one of the four Grand Slams and the only one played on clay courts. www.rolandgarros.com

30 MAY 2015

FA Cup final

Wembley Stadium, London, UK

The Football Association Cup is the oldest association football competition in the world. **www.thefa.com**

6 JUNE 2015

UEFA Champions League final

Olympiastadion, Berlin, Germany

The 60th season of Europe's premier club football tournament will this year conclude at the Berlin Olympic Stadium. www.uefa.com

12-28 JUNE 2015

European Games

Baku, Azerbaijan

The 2015 European Games will be the inaugural edition of the European Games, a multi-sport event for European athletes. The Games were designed and are to be regulated by the European Olympic Committee (EOC). www.baku2015.com

6 JUNE - 5 JULY 2015

2015 FIFA Women's World Cup

Canada

The 2014 FIFA World Cup will be the seventh edition of the international women's football tournament which will see matches played across six Canadian cities.

www.fifa.com/womensworldcup

18-21 JUNE 2015

US Open golf

Chambers Bay, Washington, USA

The annual open golf tournament of the USA is the second of the four golf majors. Staged by the United States Golf Association, the competition was first held in 1895. www.usopen.com

29 JUNE - 12 JULY 2015

The British Open/Wimbledon

London, UK

The Wimbledon tennis tournament will start a week later than usual from 2015 to allow a three-week rest following the French Open. www.wimbledon.com

10-26 JULY 2015

XVII Pan American Games

Toronto, Canada

The 17th Pan American Games is an international, multi-sport event – more than 6,000 athletes from 41 nations are expected to participate across 36 sports. The 2015 Pan American Games will become the third Pan American Games hosted by Canada and the first by the province of Ontario. www.toronto2015.org

22-30 AUGUST 2015

World Championships in Athletics

Beijing, China

The 15th World Championships in Athletics will be held in Beijing, China in 2015. The event will be the largest sporting event to take place at the Beijing National Stadium (Bird's Nest) since it acted as the main venue for the 2008 Summer Olympics. www.iaaf.org

19-27 SEPTEMBER 2015

UCI Road World Championships

Richmond, Virginia, USA

The UCI Road World Championships is cycling's pinnacle event, held annually in an international city as chosen by the UCI, the sport's governing body. The Richmond meeting will be the 82nd in history. www.richmond2015.com

DIARY 2014-2015

21-22 OCTOBER 2014

Soccerex Americas Forum

Barbados

In partnership with Barbados Tourism Marketing Inc, the two-day event will promote football growth and development across the North, Central American and Caribbean region. It will be attended by the game's leading administrators, football legends and business leaders. Tel: +44 (0)208 987 5522 www.soccerex.com

28 OCTOBER 2014

Sports Facility Show

Motherwell, UK

The Sports Facility Show is an event for sport professionals who design, manage and maintain of sports and play facilities. The one-day event includes sessions on key topics, expert speakers, dedicated networking time and an exhibition. Tel: +44 (0)24 7641 6316 www.sapca.org.uk

4-5 NOVEMBER 2014

Sport Obiekt

Kielce, Poland

Now in its 14th year, the trade show will provide insight into new trends within sports construction, include an exhibition of all types of facilities and equipment for sports buildings, as well as provide access control systems. The trade show gives the manufacturers of equipment for sports halls and stadiums, sports and recreation equipment and sports clothes the opportunity to present their offerings. Tel: +48 41 365 12 33 www.targikielce.pl

6 - 8 NOVEMBER 2014

India Sports Expo

New Delhi, India

The Ministry of Youth Affairs & Sports along with the Federation of Indian Chamber of Commerce & Industry will organise the first edition of the India Sports Expo at Major Dhyan Chand National Stadium, New Delhi. India Sports 2014 will be a platform for the Indian sports industry to showcase its strength to the Indian and international sports fraternity. Tel: +91 11 2376 5081

www.indiasports.org

7-9 NOVEMBER 2014

SIBEC North America

Ocean Reef Club, Key Largo, USA

Major operators in the health, recreation, sports and fitness sectors meet with leading executives from national and international supplier companies. SIBEC events aim to bring the industry together to do business in a five-star destination and provide highquality networking and relationship-building opportunities in a relaxed environment. Tel: +1 603 529 0077 www.sibecna.com

13-15 NOVEMBER 2015

Athletic Business Conference & Expo

Orlando, Florida, USA

The Athletic Business Conference & Expo is a premier educational event and trade show for athletic, fitness and recreation professionals. The three-day conference and exhibition attracts industry experts and manufacturers who have successful track records and road maps for a bright future. Tel: +1 800 722 8764

www.athleticbusinessconference.com

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18-19 NOVEMBER 2014

Soccerex African Forum 2014

Durban, South Africa

The forum brings more than 1,000 decision makers in African football together with businesses from across the continent and the world for two days of learning, networking and business opportunities with the aim of building football's legacy in Africa. The event will include seminars and networking Tel: +44 208 987 5522 www.soccerex.com/events/africa

25-26 NOVEMBER 2014

BASES Conference

Burton, UK

The annual conference of the British Association of Sport and Exercise Sciences (BASES) will include debates, keynotes and a symposium presented by experts. The emphasis will be on new research as the two-day programme focuses on topics relevant to sport and exercise scientists. Tel: +44 (0)113 8126162 www.bases.org.uk

4 DECEMBER 2014

IOG Conference and Awards

stadiummk, Milton Keynes, UK

The Institute of Groundsmanship (IOG) annual conference will this year be hosted by TalkSPORT's Mark Saggers and will highlight the important issues affecting the industry. The IOG Awards, handed out during the event, acknowledge the high standards achieved by volunteer and professional teams and individuals at facilities that range from grass roots through to professional stadia. Tel: +44 (0)1908 312511 www.iogawards.com

10-11 DECEMBER 2014

Geneva 2014

Geneva, Switzerland

The International Sports Conference Geneva 2014 is billed as the world's largest sports convention. Rather than a single conference, the two-day event will combine a total of 18 individually organised sports conferences as well as a combined exhibition floor. There will also be a vibrant programme of networking events catering for delegates. Tel: +41 (0)79 823 08 55 www.geneva2014.com

22-24 JANUARY 2015

UK Pool and Spa Expo

Birmingham, UK

UK Pool & Spa Expo continues to develop and welcome new exhibitors, supporting partners and encourage new visitors to its 2015 event, designed to target the UK's wet leisure sector and associated sectors. It offers both UK and international companies a professional platform to meet and do business. Tel: +44 (0)1483 420229 www.ukpoolspa-expo.co.uk

1-3 FEBRUARY 2015

SPATEX

Brighton, UK

Now in its 19th year, SPATEX is the UK's premium swimming pool exhibition. It represents all sectors of the wet leisure industry from pools, spas, saunas to hydrotherapy, steamrooms and children's play equipment, in both the domestic and commercial arena. SPATEX is primarily a trade show, but also welcomes members of the public to the show floor. Tel: +44 (0)1264 358558 www.spatex.co.uk

9-12 APRIL 2015

FIBO

Cologne, Germany

FIBO is trade fair for fitness, sport, wellness and health professionals and has a global reach. The annual event attracts around 116,000 visitors and 700 exhibitors and offers a comprehensive programme of seminars and talks as well as a platform for suppliers to exhibit their latest products. Tel: +49 211 90191 204 www.fibo.de

24-27 JUN 2015

Congress of the European College of Sport Science

Malmö, Sweden

In 2015, the multidisciplinary ECSS Congress will celebrate its 20th anniversary. The 2015 congress theme of Sustainable Sport will permeate the academic programme: the three universities co-hosting the event all emphasise sustainability in sport. Tel: +49 221 4982 7640 www.ecss-congress.eu

5-9 SEPTEMBER 2015

Soccerex Global Convention

Manchester, UK

The Soccerex Global Convention is the world's largest football-related business event, seeing the global leaders of the sport come together to debate, network and do business. Lasting five days – and including a two day Football Festival – the 2015 edition will again take place in Manchester. Tel: **+44 (0)208 987 5522**

www.soccerex.com

22-24 SEPTEMBER 2015

LIW

Birmingham, UK

Leisure Industry Week (LIW) is a trade show that caters for the entire out of home leisure industry. The show has six sectors (sport, health and fitness, pool and spa, play and attractions, eat and drink and leisure facilities) which host 300+ exhibitors showcasing their products and services. Tel: +44 (0)20 7955 3990 www.liw.co.uk

27-30 OCTOBER 2015

FSB / Aquanale

Koelnmesse, Cologne, Germany

Covering an exhibition area of around 80,000sq m (861,112sq ft), FSB – the International Trade Fair for Amenity Areas, Sports and Pool Facilities – is among the world's largest sport-related trade shows. From 2015, FSB will occupy Koelnmesse's modern North Halls. Having adopted a new themed hall concept, FSB will share the location and dates with its sister show Aquanale (the International Trade Fair for Sauna, Pool and Ambience). www.fsb-cologne.com

04-05 NOVEMBER 2015

IOG Saltex

Birmingham, UK

The Institute of Groundsmanship (IOG) has announced that SALTEX will be moving to the NEC, Birmingham on 4-5 November 2015, which also marks the 70th anniversary of the show. From turf care and specialist machinery to landscaping and playgrounds, more than 250 exhibitors cover the complete range of grounds care services. www.ioq-saltex.com



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MASS MARKETING

Running through rivers in winter, swimming in cold lakes, clifftop marathons... Surely there's not a market for that? Oh, but there is. We look at the growth of mass participation sporting events

KATH HUDSON • JOURNALIST • SPORTS MANAGEMENT

t's a particularly cold weekend in England and I'm watching my husband take part in the eight mile "The Scrooge" off road race at the Lost Gardens of Heligan, along with hundreds of other competitors. He was prepared for hills, mud and uneven terrain. What he wasn't expecting was to wade through icy cold, chest deep rivers. The blow is softened by the camaraderie of the competitors, encouragement from spectators and the good natured race officials – wearing Scrooge outfits of top hat and tails – giving a helping hand on the slippery river banks.

At the end, the competitors gathered on straw bales in the barn to discuss the race over a pasty and a complimentary



Many of the mass participation events offer "mini events" to attract families to take part

pint of Cornish lager. Unlike other sporting events, where the rivalry is intense, mass participation events tend to be relaxed and friendly; after all, the pressure to get placed is removed when there are hundreds or thousands of people taking part. An increasing number of mass participation sporting events are springing up around the country. Ranging from one mile fun runs to 100 mile ultra trails, from open water swimming in iconic locations and Sky Rides to Ride London – an annual event which gets 70,000 people on their bikes over the course of a weekend.

OLYMPIC LEGACY

The Olympics have inspired many people to get more active. Figures suggest that it's the more easily accessible, individual sports which people are opting for, rather than team sports, which often have more regimented training and match times.

Over the last 10 years there has been a 4.65 per cent increase in running and jogging. Figures from the Active People survey show that sports participation has gone up since 2005, however it is really recreational cycling and running, especially



There are now hundreds of mass participation sporting events organised throughout the year in the UK – a booming market which is still growing

SWIM

MASS PARTICIPATION



Many events "re-package" traditional forms of exercise – such as the largescale open air swimming competitions



One of the common themes of mass participation sport is that it allows an alternative experience of a location, or access in an area which is usually forbidden.

mass running, which is pushing up the figures. In contrast, many team sports which are organised by the national governing bodies are declining in popularity.

According to Steve Wood, an independent coach who specialises in behavioural change, mass participation sports suit our lifestyle. "People don't want to participate in structured, organised club activities any more," he says. "They don't have the time. They want to be self determined. Mass participation sport is so successful because it gives people a goal to aim for – they go, do it and come away. Lots of sports are too exclusive because there's only a limited number of places on the team, whereas mass participation sports are democratic, often catering to those with disabilities as well."

One of the sports to have benefitted most from the London 2012 Olympics has been cycling. Immediately after the Games, 52 per cent of survey respondents indicated they were more motivated to cycle as a result of Team GB's achievements. British Cycling has doubled its membership in the past five years alone to 50,000, while weekend cycling races have increased by 900 per cent since 2002 to more than 300 a year.

Another event, the Great Swim, was inspired by Team GB's Beijing Olympic success in open water swimming. Launched in 2008, it now runs annually in five UK locations: Windermere, Suffolk's Alton Water reservoir, Salford Quays, Loch Lomond and Canary Wharf, London. The Great North Swim in Windermere is the flagship event and 10,000 people take part over a number of distances: from half mile races to 5k runs.

"We've seen an increase in the number of people wanting to try new and exciting sporting activities, who may be daunted by the prospect of a run, but they know if they can manage 65 lengths of a pool they can complete a one mile swim and have a great time doing it," says Great Swim spokesperson, Philippa Morrow.

Morrow says swimming is an accessible sport and open water swimming, without lanes, walls or chlorine is a liberating experience for those who like swimming. "The sport is going from strength to



strength. We're really pleased we've been able to give people the opportunity to experience such an enjoyable way of staying active," she says.

BUCKET LISTS

Marathon participation is on the increase, as more events are springing up. According to Brighton Marathon organiser Tom Naylor, people are running more than one a year. "Marathon running is clearly on a lot of people's bucket lists, which mean events such as ours continue to grow," he says.

"The marathon is a challenge anyone can take on. You don't need skill or to be of a certain physique and age doesn't play a factor. But it's a challenge, no matter who you are. The Marathon is unique in that way, By attracting children to take part, the mass participation events are securing a captive audience for the future

which is why I think it's so appealing. Nearly a third (32 per cent) of our participants have never run a marathon before, so clearly the event inspires people every year to get fitter for the event," says Naylor.

New for this year at the Brighton Marathon was a 10k race, which took place before the main marathon start. More than 2,000 people participated in the secondary race, which took in the first stage of the marathon route. The reason for introducing the event was to attract back those who've previously run the marathon, but wouldn't want to do the full distance again – and also to inspire future runners.

GOING HARDCORE

While there has been a rise in these huge mainstream events, there has also been an increase in hardcore mass participation events, where the focus is also on personal challenge rather than placings.

Steve Wood believes that extreme mass participation sporting events fulfil an innate need for a bit of danger and being outdoors. "We wrongly feel that we have controlled all of the risks in life and this is all part of human desire to push boundaries. When we spend most of our lives indoors, it's also good to have to

MASS PARTICIPATION



Wester Ross in Scotland is one of the rural areas benefitting from mass participation events

brave the elements occasionally," he says. Jo Lake, co-founder of Mudcrew, which organises the Scrooge Run and the R.A.T run – a 20 mile run along the Cornish cliffs – says people enjoy the mental challenge as much as the physical challenge.

"Training your mind as well as your body is important, so you need to practice. I think people find it addictive," she says.

Paul McGreal, founder of Durty Events, which organises extreme triathlon, the Celtman says: "It appeals to an unegotistical group of people hunting interesting and tough things to do. They don't mind failure in their lives and are motivated by challenge and fear. They start the race not knowing if they'll finish it, but they don't mind that."

VALUE TO THE COMMUNITY

There's another benefit of mass participation sports, which is the economic value to the region. Research published in 2012 by the Sport Industry Research Centre, found that non-elite events can generate substantial economic benefits comparable to – and in some cases greater than – those associated with elite events. An independent assessment of the Brighton Marathon showed that the event was worth £6m to the town in 2013.

The Celtman, which takes place in Wester Ross, Scotland, brings competitors from all over the world. All accommodation in the surrounding areas gets booked up, and the local community council sorts out homestays, matching athletes with people with spare rooms.

Charities also benefit greatly, with many people using mass participation sport challenges to raise funds for causes. Nearly 80 per cent of the 10,000 participants of the Brighton Marathon will raise money, much of which benefits the region. Kent, Sussex and Surrey Air Ambulance has received



The Celtman competition offers participants a spectacular backdrop in which to put their athleticism to the test



MASS PARTICIPATION



£89,000 since the event started in 2010. Andy Reed, chair of the Sport and Recreation Alliance, says the rise in mass participation sport is encouraging, especially as many of those taking part are not "die-hard sports nuts and are just the type of people sport needs to reach."

He says that increasing participation is one of the main challenges for the organisation's members and opportunities which involve being outdoors, in a social setting, are popular. He encourages all sports development professionals to offer events such as these, on a smaller scale, and to find interesting locations for them by building links with private landowners.

"For organisers and volunteers who have thought about setting up their own version of participation events on a smaller scale, but are put off by bureaucracy and red tape, we would say don't be," he says. "There is the perception among some that landowners are liable when accidents take place on their land, but this isn't the case at all. There are lots of guidelines like the Cabinet Office's new can-do guide to help with this aspect. As sports development professionals, our job is also to ensure that more private landowners allow these events to take place in their forests, fields and lakes.'

One of the common themes of mass participation sport is that they allow an alternative experience of a location, or access into an area which is usually forbidden. RideLondon allows cyclists the freedom of the capital without cars, the Great Swim means people can view the beauty of the Lake District from the middle of Windermere, the allure of the Celtman is the spectacular Scottish mountains and runners can at least admire the sea when their legs are giving up.

Our innate need to interact with nature is a big driver of mass participation sport and it could well be the key to mobilising even more people to get active. \bullet





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EMERGING NATIONS

The balance of power of hosting international sports events is shifting away from Europe and North America. Major competitions are now being held in countries which until recently would have been described as "developing". But how sustainable is the progress being made by these countries? We speak to international development expert Derek Casey

TOM WALKER • MANAGING EDITOR • SPORTS MANAGEMENT

here are a number of emerging countries whose fast growing economies and future prospects are attracting funding from foreign investors. Grouped under terms such as BRIC and MINT, these countries are challenging the more traditional industrial powerhouses with their natural resources and, in many cases, by offering a more "affordable" environment for manufacturing and production.

Inevitably, the economic growth in these countries has resulted in the expansion of middle classes, which has created the need for improved services, health care – and leisure. There is a particularly strong correlation between economic development and sport in many of the emerging nations. As the countries have developed, they have come to use sport – and particularly the hosting of international competitions – as a marketing tool. All of the BRIC countries (Brazil, Russia, India, China) have won bids to host major sporting events in recent years (see table 1), while the MINT countries (Mexico, Indonesia, Nigeria and Turkey) are beginning to show interest in doing so. Turkey has already thrown its hat in, with Istanbul narrowly losing out on the rights to the 2020 Olympics to Tokyo and Japan.

What has been conspicuous in the approach taken by some countries, however, is how the development of competitive sport domestically has not



In many cases, funding is channelled into ambitious bids to host high-profile events, rather than grassroots sport

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INTERNATIONAL DEVELOPMENT

been a priority – or even of parallel importance. While significant funds have been spent on hosting (and bidding for) events and creating iconic, internationalstandard competition venues, investment in community sport facilities has often remained relatively low. This, however, could be about to change.

The burgeoning middle classes are demanding spaces to get physically active, leading to more emphasis being put on "sport for all" initiatives. From a supplier point of view, this will open up further opportunities for the providers of sports-related infrastructure and services to pitch for business.

Chinese experience

Of the BRIC countries, the largest economy belongs to China, where sustained, long-term growth has created a huge, urbanised middle class. As a result, the government faces demands on investing in quality of life – especially in the larger cities. The increased free time and disposable income has led to leisure becoming a major growth sector.

Former Sport England CEO and chair emeritus of the World Leisure Organization, Derek Casey, now spends most of his time traveling the world, advising and lecturing on sports development in all its forms. He predicts the emerging nations and their sports infrastructures will develop in the same way that they did in Europe – and nowhere is this pattern clearer than in China.

"Traditionally, unless a sport is likely to win an Olympic medal, it will not be given funding by the Chinese government," Casey says. "But there is now a mass participation directorate within the Beijing government, so you can see the beginnings of a "sport for all" attitude



China's growing middle class is creating a demand for "sport for all" initiatives in the country

Building with BRICs

Brazil:

- FIFA World Cup 2014
- Olympic Games 2016
- Russia:
- Winter Olympic Games 2014
- FIFA World Cup 2018
 India:
- Commonwealth Games 2010
- Cricket World Cup 2011
- China:
- Olympic Games 2008

being adopted as a major contribution to improving the quality of life in China.

"This parallels the continuing emphasis on economic development. As middle classes expand in the likes of the BRIC countries, there'll be an automatic increase in the number of people wanting to play sport regularly.

"We saw this in the UK from the early 1960s onwards. The expansion of the middle classes, their new aspirations and changes in working conditions and practices meant a demand for greater choice and for the provision of more leisure opportunities. We're now seeing



"The spotlight shone by a bid draws attention to social and economic challenges in the bidding countries – which often seem to come as a surprise to the event owners"

similar processes at work in the countries which are experiencing economic development. Witnessing this sometimes makes me wonder whether all the "sport for all" campaigns in the 1970s and 1980s might have been a waste of time. The increases in sport participation numbers were inevitable due to the changing social, cultural and economic positions of the population."

MINTed

Casey adds that while the MINT countries aren't as developed economically as China, there are similar patterns emerging – especially in Mexico and Turkey. Both have been actively bidding for major events, resulting in the development of sporting facilities within the countries. Mexico was among the bidders for the Youth Olympics for 2018, which could pave the way for a potential bid for the Olympic Summer Games again sometime soon. Meanwhile, Turkey came close to securing the 2022 Olympic Games with its Istanbul bid and narrowly lost to France in the race for the rights to the 2016 UEFA European Championship.

The Euro 2016 bid also triggered an ambitious, collective plan among football clubs in Turkey to build new – and

INTERNATIONAL DEVELOPMENT

redevelop existing – football stadia and to bring them up to modern standards. Although those plans have since been downscaled due to France winning the bid, it showed a glimpse of how transformative a successful bid can be for the sporting landscape of an emerging nation.

Of the remaining MINT countries, Nigeria made the final round of bidding for the 2014 Commonwealth Games but lost to Glasgow. Recent political unrest might derail sports development and delay the country's advancement however.

The only one of the group to show little interest in developing sport so far has been Indonesia, where sport largely remains a pastime for the wealthy.

"It's clear that if you see countries developing economically, getting people out of poverty and creating a more equal society, you are very likely to soon see higher levels of participation as well as increased ambitions to become a player on the international stage," Casey says.

"However, bidding, and especially a successful bid, does not just place the spotlight on the event but also on the hosts. In recent years, this spotlight has drawn attention to the social and economic challenges in many of the host countries which has often seemed to come as a surprise to the event owners."

Natural resources

Adding to the BRIC and MINT countries there is a group of oil and gas-rich nations which are utilising their natural resources to create and develop new sectors for their industry. The obvious example – and



Samson Idiata of Nigeria was among the African contestants at Glasgow 2014

MINT

MINT is a neologism referring to Mexico, Indonesia, Nigeria and Turkey. The term was coined by USbased asset management firm Fidelity Investments and popularised by Jim O'Neill, former chair of Goldman Sachs, who also created the term BRIC. certainly the most high profile – is the United Arab Emirates' Dubai, which has for decades used oil revenues to build up its tourism sector. Most other emirates have followed suit and created their own centrally-planned, free-market capitalism – although one could argue that the approaches taken by Abu Dhabi, Ras-al Khaimah and Sharjah are different to Dubai's glitzy theme parks, indoor snow slopes, entertainment venues and luxury hotels.

Other countries which are using natural resources to future proof their economies by creating new sectors of industry include Kazakhstan, Qatar, Uzbekistan, Bahrain, Angola and Azerbaijan. In all of these countries, tourism will play a major part in economic growth - and sport will be one of the vehicles used to raise awareness of the countries for foreign tourists. Some have already taken the plunge. Qatar was - rather controversially - chosen to host the 2022 FIFA World Cup while Bahrain is now a regular feature on the F1 circuit. Azerbaijan will host the very first European Games in 2015 while Kazakhstan's Almaty is one of the three candidate cities bidding for the 2022 Winter Olympics.

"A 'second tier' is beginning to emerge," says Casey. "They are perhaps furthest away from having an established sport for all programme domestically, but internationally they are capable and – due to the resources – they are keen to invest in facilities. There are also Sub-Saharan African countries whose economies are growing rather well – such as Angola, Botswana and Zambia.

"How this 'stadium diplomacy' works is that China is keen to

build sporting venues in exchange for exclusive trade deals"



"Angola staged the Africa Cup of Nations in 2010 while Botswana is hosting the 2014 Africa Youth Games. What's encouraging is that many of the African countries are also concentrated on developing sport domestically.It's important for emerging nations to realise that their ambition to play on the international stage should not ignore or be a substitute for parallel domestic development. A strong sports hinterland is a strong base for the successful staging of international events."

Stadium diplomacy

Casey adds that progress in Africa – and other parts of the world – has been

The Delhi 2010 Commonwealth Games were a success as an event, although questions remain over the legacy aspect

helped a great deal by China's concerns over securing the resources it needs to feed its manufacturing industry. Most of the stadiums in Angola which hosted the Africa Cup of Nations were built using Chinese money. "And it isn't just Africa that China is interested in," Casey adds.

"Many of the Cricket World Cup stadia in the West Indies were funded by Chinese money. One of the bids for the 2018 Commonwealth Games, Hambantota in Sri Lanka, significantly relied on the Chinese for its venues strategy."

Casey predicts that China's impact will only grow as it continues to invest not just in stadia but larger infrastructure projects to ensure the flow of resources.

"What we are beginning to see is the strong influence of China and some of the other BRIC countries – India in particular – playing a role in where major sporting events may take place. How this 'stadium diplomacy' works is that China will build venues in exchange for exclusive trade deals. The stadiums in Angola, for example, were built in return for mining rights, while

INTERNATIONAL DEVELOPMENT

 in Samoa the Chinese have built facilities and received fishing rights.

"The next step could be that China will invest further in larger infrastructure, such as airports, which can then form a base for a sporting event bid. The airport will serve the Chinese aim of providing a way to improve communication with a country, while for the bidding country it will provide a way to improve infrastructure to the level expected from, say, an Olympic host city. I wouldn't be surprised if one of the countries in which China has invested would win a major competition to host, simply due to the level of investment that they have attracted."

There can, however, be a problematic side to the Chinese method. What happens to the large scale venues once they have been built and the Games are over? Will there be high enough demand to use the international competition standard venues?

"Chinese investment is welcome in so many countries and is contributing to economic development. Capital is provided by the Chinese but not usually the revenue cost," Casey says. "The age-old problem of what do you do with these spaces after the event persists. For example, in Angola there were five new stadia built and most of them are not being used to optimum capacity. This is as much an issue of the demands placed on the host by the event owner as the source of capital funds."

End results

So what does the emergence of new players on the international sports stage mean to the established sporting nations? Nations in Europe and the Americas which may have some of the infrastructure already in place to host major games and a strong sports hinterland. Casey predicts that many of them could simply give up



Chinese stadium diplomacy at work in Angola, where five new venues have been built

MADE IN CHINA

The first wave of China-funded stadia were completed in the 1980s and by 2010, more than 50 stadia had been built in Africa alone.

Stadia built using Chinese money since 2005 include: Africa (10)

- Angola 5
- Cameroon 1
- Cape Verde 1
- Central African Republic 1
- Malawi 1
- Mozambique 1

Caribbean (5)

- Antiqua 1
- Bahamas 1
- Dominica 1
- Grenada 1
- Jamaica 1
- Australasia/Pacific (4)
- Cook Islands 1
- Kiribati 1
- Papua New Guinea 1
- Samoa 1
- Asia (2)
- Laos 1
- Mongolia 1
- South/Latin America (1)
- Costa Rica 1



"The emphasis should be on making sure that hosting a major event contributes to the country's bedrock in such areas as health, education, environment and wealth creation"

on bidding, as the international governing bodies will be increasingly keen to award Games to developing nations to ensure that their particular sport gets a foothold and, by the award of the event, to make rather superficial political statements.

"The Dutch (with Rotterdam and Amsterdam as joint hosts) have decided against a bid for the 2028 Olympic Games," Casey says. "They came to the conclusion that they don't want to have the cost and would probably lose against an oil-rich country or a strong emerging economy. It will be fascinating to see how it all plays through in the coming years.

"However the spread of host countries and cities is understandable when the location of major events over the last century is considered. With Rio de Janeiro hosting the first Olympics in South America; with events such as the Olympics and Commonwealth Games still to be held in Africa and a historic concentration of events in Europe and North America, it is understandable that others have ambitions.

"I only wish that in deciding upon hosts there was less attention paid to legacy – the often spurious and post analysis result of staging the event – and more attention paid to strategy well before the bid is even made. There should be more emphasis on making sure that hosting a major event contributes to such areas as health, education, environment, equality and wealth creation and distribution."

FIELD OF JEANS

The opening of the Levi's Stadium this August is being heralded as the dawn of a new era for stadium design. The venue, the new home of the famed San Francisco 49ers, has been described as the most technologically advanced building in sports

TOM WALKER • MANAGING EDITOR • SPORTS MANAGEMENT

hen the San Francisco 49ers move to their new stadium later this year, it will mark the end of a long journey. The franchise, one of the most successful in the history of the National Football League (NFL), first tabled plans to build a new stadium back in 1996. Despite the city of San Francisco supporting the plans and offering a US\$100m (US\$75m, £60m) grant to help build the new venue in 1997, the project, however, ran into trouble due to changes in the team's ownership and differences of view over the way the project should be handled.

The plans then spent a decade in a state of flux, until San Francisco major Gavin Newsom launched a bid, in early 2006, to bring the 2016 Olympic Games to the city – rekindling the plans for a new flagship stadium. The new proposals, announced in late 2006, were based on the construction of a new stadium at the site of the 49ers' current home, the 69,700-capacity Candlestick Park. Another disagreement – this time over the use of space (the 49ers weren't happy with a planned housing estate as part of the deal) – saw the plans



Stadium stats

Designer/architect: HNTB Project manager: Hathaway Consulting Structural engineer: Magnusson Klemencic Associates Opening date: August 2014 Cost to build: US\$1.2bn Total footprint: 176,515sq m (1.9 million sq ft) Capacity: 68,500 (standard, can be expanded to 75,000) Total sq ft of scoreboards: 13,600 Retail points of sale: 370 Restroom fixtures: 1,135

stall again. To avoid another long delay and to ensure the team would finally be able to move out of its ageing Candlestick Park, the 49ers' owners - the York family, led by CEO Jed York - made a radical decision; to tear up all existing plans and explore relocation to Santa Clara, a city 40 miles away from San Francisco. While the 49ers migrating from San Francisco - removing the need for a large-scale stadium - ended the city's Olympic ambitions and angered state officials, the city council in Santa Clara pounced on the opportunity to bring a big-name sports franchise into town. Negotiations over potential locations begun in 2008 and a final approval was given in June 2010. Construction work began later that year - 13 years after the first plans for a new stadium were tabled.

KEEPING IT GREEN

Designed by architects HNTB, the 68,500-capacity Santa Clara stadium will be an open stadium with a natural grass field. It will feature landscaped pedestrian plazas, commercial community space, a 49ers superstore and a Hall of Fame and museum dedicated to the history of the

The venue has been designed as an "open stadium" and will have a max capacity of 75,000

THE STADIUM WILL BOAST 20,000SQ FT OF SOLAR PHOTOVOLTAIC PANELS, OFFSETTING THE ELECTRICITY THAT IS USED DURING 49ERS HOME GAMES

team. The 49ers have secured a 20-year, US\$220m (€163m, £128m) stadium naming deal with clothing giant Levi Strauss & Co, which will see the venue called "Levi's Stadium". The stadium's design allows it to cater for wide range of events – from football and motocross to concerts and civic events. To add to its versatility, capacity will be expendable to 75,000 for major events that require a smaller playing field. The stadium is also designed to meet FIFA requirements for international-level association football, which will allow the stadium to host international friendly matches and major tournaments.

What makes the Levi's stadium special, however, is the level of environmental sustainability and technology built into it. The venue is currently one of the largest buildings registered with the US Green Building Council and the first stadium that will have both a green roof and solar panels. It has already been widely touted as the greenest stadium in the US.

In total the stadium will boast 20,000sq ft of solar photovoltaic panels, supplied by local company SunPower. The panels will be used to generate power all year round, offsetting the electricity that is used during the 49ers home games. For the power it needs to buy in from electricity suppliers, the 49ers have signed an agreement with energy giant

NEW OPENING



NRG Energy to ensure sustainable power is being used. Through the unique partnership, NRG will help the new facility become the first professional football stadium to open with LEED certification. Further green initiatives and solutions

Five fascinating facts...

- The stadium's lower bowl will have 35 rows of seats; the first row will only be about 10 feet away from the playing surface
- 2 The stadium's natural grass has been growing for more than a year at West Coast Turf in Livingston, California
- 3 The 20,000sq ft 49ers Museum will be sponsored by Sony and will host sports education programmes for youths
- 4 American footballers are big menthe 49ers locker room will feature 10ft-tall walnut-wood lockers.
- 5 At 48ft tall and 200ft wide, the stadium's two video scoreboards are the largest of their kind in outdoor arenas.

include a high-efficiency geothermal water system and a unique "green roof", which will include a waterproof membrane covered with plants. The roof will absorb rainwater, provide eco-friendly insulation within the stands and help lower urban air temperatures and mitigate the heat island effect. The greywater within the stadium will be recycled and reused throughout venue. There will also be public transit access and convenient bicycle parking to cut down the use of cars.



Construction work was completed in July and the stadium officially opened in August



San Francisco 49ers project executive Jack Hill says sustainability is at the centre of the design. "We've incorporated a lot of energy saving measures within the stadium itself and we're incorporated green thinking into everything we do – such as recycling most of the construction debris."

TECHNOLOGICAL REVOLUTION

Not only will Levi's Stadium be one of the most eco-friendly in the world, but it will also be one of the most technologically advanced. According to CEO Jed York, the aim is to have a ticketless, cashless building by enabling visitors to present their passes, order food and purchase goods by using nothing but their mobile devices. Fans' tablets and smart phones will also act as personal entertainment centres, information points and scoreboards thanks to the 49ers mobile app.

The app, custom designed to be used in the stadium, will feature a "real-time dashboard" for game-day fan tech features and a data analytics suite for use by the team's executives. The idea is to allow fans to step away from their seats – to visit bathrooms or to make purchase at retail and F&B points – without missing any action. The app will feature a live

feed of the game, replays, stats and even a function displaying queuing times at the stadium's various points of sale. For the app to work, though, fans must have reliable access to the internet – and a lot of bandwith. This in mind. the stadium is set to have the best publicly accessible Wi-Fi network of a sports facility anywhere in the US. What makes it so special is that it should allow all 68,500 fans to have access to high-speed internet simultaneously.

Until now, the limits of large-scale bandwidth have meant that stadium operators have found it

impossible to build a network that would let every single fan connect at once. To solve the issue, The 49ers utilised the stadium's closeness to Silicon Valley and recruited two top class IT professionals. The club's chief technology officer is Kunal Malik, regarded as one of Silicon Valley's leading tech experts and the man who



The app has a range of in-game features led the creation of the IT department at Facebook. He is partnered by senior IT director, Dan Williams, who spent four years at Facebook. The pair have announced plans to have a terabit of capacity within the stadium. That means that even if every single fan would bring an internet device to use at the game, each smart phone and tablet would still have around 15mb to use.

Speaking at the SVForum sports technology conference in Palo Alto in December 2013, Malik said: "Working on the Levi's Stadium is like taking a blank piece of

paper and redefining the fan experience. We wanted to make sure fans would be able to move around the stadium without missing any of the play – but couldn't find anyone who was doing it in real-time so we had to design and produce it ourself."

Those who prefer a traditional scoreboard won't be disappointed either.

NEW OPENING



THE VISION FOR LEVI'S STADIUM HAS ALWAYS BEEN TO CREATE THE ULTIMATE FAN EXPERIENCE THROUGH THE USE OF INNOVATIVE TECHNOLOGY

AV specialist Daktronics has supplied two gigantic, 48ft tall HD-quality screens which will be placed at either end of the stadium. There is also a 3.6ft-tall "ribbon" border display that will wrap around the length of the 1,650ft inner bowl.

Club president Gideon Yu said: "The vision for Levi's Stadium is to create the ultimate fan experience through the use of innovative technology. The partnership between Sony and Daktronics will outfit the stadium with ground-breaking visual



elements, setting its in-stadium experience apart from all other outdoor sports venues and rivaling the home viewing option. Fans expect a true HD experience at stadiums and technology like Daktronics displays, driven by Sony technology, can create that immersive and dynamic experience."

The stadium is set to host its first event on 2 August 2014 when the San Jose Earthquakes and Seattle Sounders take on each other at a one-off Major League Soccer game.

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RESEARCH ROUND-UP

Science Snapshots

The heart repairing, cancer preventing, brain calming benefits of exercise: we round up some of the latest research in the area of health, fitness and wellbeing

MENDING A BROKEN HEART

R egular and strenuous exercise can reactivate dormant stem cells, leading to the development of new heart muscle – indicating that the damage caused by heart disease or failure could be partially repaired by exercise.

Researchers from Liverpool John Moores University in the UK showed that healthy rats undertaking the equivalent of 30 minutes' strenuous exercise a day demonstrated activity in 60 per cent of previously dormant heart stem cells. After two weeks of exercise, there was a 7 per cent increase in the number of cardiomyocites – the 'beating' cells in heart tissue.

While an exercise programme is normally included in cardiac rehab, "maybe to be more effective it needs to be carried out at a higher intensity, to activate the resident stem cells," says Dr Georgina Ellison, who led the study.

Waring, CD et al. European Heart Journal (2012)





BOOSTING MALE FERTILITY

n research by Harvard University, men who undertook 15 or more hours of moderate to vigorous exercise each week had, on average, sperm counts that were 73 per cent higher than those who exercised for less than five hours a week. Mild exercise had no effect.

Sedentary activity, measured by the number of hours spent watching TV, had a negative effect on sperm count: those who watched 20 or more hours of TV each week had a 44 per cent lower sperm count than those who watched very little TV.

However, researchers warn that too much exercise can be harmful to sperm production. Previous studies involving professional marathon runners, elite cyclists and triathletes have reported poor semen quality among these groups, caused by the stress to the body brought on by prolonged periods of intense exercise.

Gaskins, AJ et al. British Journal of Sports Medicine (2013)

BRAIN PROTECTION

A diet containing lots of fatty foods is associated with a decline in brain functioning, elevating the risk of conditions such as Alzheimer's. Exactly how this occurs is unknown, but researchers think fatty acids from food infiltrate the brain and jump-start a process that causes damage to the regions responsible for memory and learning.

A study by the University of Minnesota in the US examined the result of a high-fat diet (where at least 40 per cent of calories were from fat) on memory in rats, and the subsequent effects of exercise. Memory declined after four months of the high-fat diet, but then improved once exercise – the equivalent of 30 minutes' jogging a day – was introduced.

After seven weeks, the rats on the high-fat diet were scoring as well on the memory test as they had at the start, whereas the memory of those not exercising continued to decline. However, it's not known if the same protective effect would be noted in humans.

 Mavanji, V et al. Presented at the annual meeting of the Society for Neuroscience (2012)



Might exercise protect the human brain from a fatty diet?



WARDING OFF BREAST CANCER

he effect exercise has on how women produce estrogen could be a reason why physical activity helps to reduce the risk of breast cancer, US scientists have found. Just under 400 healthy but sedentary females aged 18–30 years were randomly split into two groups. All were premenopausal, meaning their bodies still produced estrogen – a large contributing factor in developing breast cancer. The first group remained inactive for the 16-week trial; the second performed 30 minutes of moderate to vigorous aerobic activity five times a week.

Exercise had a significant impact on two estrogen metabolites – by-products when estrogen is broken down by the body. Women in the exercise group had higher levels of the relatively benign metabolite hydroxyestrone and lower levels of 16 alpha-hydroxyestrone, a mutagenic metabolite that's capable of damaging DNA and that's considered potentially carcinogenic. Having more of the benign metabolite and less of the damaging one is, say the researchers, linked to warding off breast cancer.

 Kurzer, Mindy S et al. Cancer Epidemiology, Biomarkers & Prevention (2013)

RESEARCH ROUND-UP

A CALMING INFLUENCE

S cientists at the University of Princeton, US, have discovered that exercise has an impact on neurons in the brain, 'rewiring' it to make it more resilient to stress. In the study, one group of mice was given unlimited access to a running wheel; another group was not and remained sedentary and caged. As natural runners, mice will cover up to 2.5 miles daily on a wheel. After six weeks, all mice were briefly exposed to cold water, with brain activity analysed.

In the neurons of the sedentary mice, the shock spurred an increase in 'immediate early genes' – short-lived genes that are rapidly turned on when a neuron fires. The active mice did not have these genes in their neurons, suggesting their brain cells did not immediately leap into an excited state in response to the cold water.

In the active mice, there was also a boost of activity in inhibitory neurons that keep excitable neurons in check. In addition, their brain neurons released more of the neurotransmitter gamma-aminobutyric acid (GABA), which dampens neural excitement. And there were higher levels of a protein that helps deliver and release GABA into the brain. Gould. E et al. Journal of Neuroscience (2013)





FIT FOR SURGERY

itness, not age, should be used to determine whether older people can have an operation, says new research based on 389 adults – aged between 26 and 86 years and with a mean age of 66 – who had liver surgery.

Each patient's fitness was measured before their operation via a maximal exercise test. Those who were fit and aged under 75 had a mortality rate after surgery of less than 1 per cent. This rose slightly to 4 per cent for patients who were fit and aged over 75. For patients who were unfit and under 75, the mortality rate was 11 per cent, jumping to 21 per cent for those who were aged over 75 and unfit.

In addition, regardless of age, people who were physically unfit took longer to recover from their operation, spending an average of 11 days longer in hospital after surgery.

Another recent study published in the American Journal of Cardiology showed the chance of fit heart bypass patients dying after surgery was only 1 per cent, going up to 5 per cent among unfit patients.

Trenell, M and Snowden, C et al. Annals of Surgery (2013)

BACTERIA AND OBESITY

B acteria in the human gut could play a vital role in determining who is obese and who is lean, leading to the possibility of new treatments to fight obesity, according to a US study which investigated the effect of gut microbiome on obesity versus influences such as genes and diet.

Four sets of identical female twins were recruited for the study, with one twin being lean and the other obese. Using stool samples, researchers collected bacteria, viruses and protozoans present in each participant's gut. These were then placed into a large group of mice.

The study found the mix of living organisms inside the mice's digestive tracts began to resemble the mixes inside their human donors. The mice went on to develop similar characteristics to the women whose gut microbiomes they had received, with mice that adopted microbiomes from obese women developing obesity and those receiving lean transplants remaining lean.

The intestinal flora of the lean mice also worked better at breaking down and fermenting dietary sugars than the flora of the obese mice, while non-digestible starches passed through the digestive system at a quicker rate in the lean specimens, leading to thinner mice.

With the effects of genes and diet removed from the equation, the experiment helps to highlight the specific ways the gut's organisms influence weight gain.

Dr Jeffrey I Gordon et al. Science (2013)



Could bacteria present in the gut influence obesity levels?



EXERCISE OR MEDICATION?

xercise could be as beneficial as pills for people who
have suffered a stroke or experience heart conditions,
according to a new meta-study.

Scientists studied hundreds of trials, involving nearly 340,000 patients, to investigate the benefits of both exercise and drugs in preventing death, exploring the management of conditions such as existing heart disease, stroke rehab, heart failure and pre-diabetes.

Physical exertion and activity were found to rival the performance of some heart-related drugs, and outperformed medication for strokes: exercise was the best form of help for strokes in terms of life expectancy, while medication known as diuretics worked best for heart failure patients.

Though acknowledging there's currently insufficient evidence to recommend exercise over medication, the scientists believe their findings warrant further exploration, and suggest exercise should be added to GP prescriptions with exercise and medication used together for the best results. Huseyin Naci et al. British Medical Journal (2013)

SUSTAINABILITY

MAKING IT GREEN

Investing in environmentally friendly practices not only reduces energy costs in the long term, it will also offer venues an additional selling point when trying to attract increasingly environmentally-savvy fans. We look at some examples of sustainable sports design and operations.

US OPEN TENNIS TOURNAMENT

"Our courts may be blue, but we're thinking green." That's the environmental pledge of the United States Tennis Association (USTA), the national governing body for tennis, which hosts the US Open at The Billie Jean King National Tennis Center in New York. A grand venue for a Grand Slam, the complex has been home for the US Open every September since 1978 and houses a total of 22 tennis courts inside its 46.5 acres.

The green thinking pledge was formulated in 2008 as part of USTA's efforts to implement more environmentally-sound practices at the US Open. There were two key issues behind the push for sustainability – the need to match spectators' increasing expectations to see green initiatives in practice and cutting the burgeoning energy costs.

Since its launch, the Green Initiative has resulted in more than 850 tons of waste being diverted through recycling and composting; saved more than 1,100 tons of greenhouse gas emissions; offset enough electricity to power 600 homes for one year; recycled almost 1.5 million



All waste is categorised across the venue

US Open's paper trail

- The 2.4m napkins in the general concession area are comprised of 100 per cent recycled material
- All printed materials are composed of at least 30 per cent recycled materia
- US Open tickets are printed on paper comprised of 30 per cent postconsumer waste, and parking books, parking visors and coupon books are printed on paper comprised of 10-15 percent post-consumer waste
- The paper towel dispensers located throughout the US Open venues have been replaced with energy-saving motion-sensor dispensers

plastic bottles; and delivered a campaign to reduce private transport so that most of the fans now arrive using public transport.

As well as the partnership with the US' Natural Resources Defense Council (NRDC), USTA has teamed up with other organisations as part of its green strategy. In 2012, it joined the Green Sports Alliance, an organization of sports teams, venues and leagues aimed at enhancing environmental evolution of professional and collegiate sports.

Gordon Smith, USTA executive director and chief operating officer, said: "Our commitment to reducing the environmental impact is an important endeavor and we are continually seeking ways to enhance our greening efforts. With comprehensive ecological programme that we've established at the US Open, we hope to foster environmental progress and inspire fans to create a positive change."

The tennis legend whose name the stadium carries is an enthusiastic supporter of the Green Initiative. "To solve the serious environmental problems facing our planet, we need to shift our culture


The 2014 FIFA World Cup in Brazil was the greenest tournament in World Cup history

toward more sustainable practices," Billie Jean King says. "Sports are hugely influental and can play a significant role in causing a 'green' ripple effect of enormous proportions, encouraging industries and consumers alike to improve the choices they make every day."

BRAZIL 2014 WORLD CUP

The organising committee of the Brazil 2014 World Cup (LOC) and FIFA created a strategy to make this year's competition the greenest ever. The sustainability strategy developed by FIFA and the LOC aimed not only to mitigate the negative impact but also to maximise the positive One of the newly-built World Cup stadiums – Estádio Nacional in the capital city of Brasilia – is now rated as one of the world's most sustainable stadia

effects of hosting the FIFA World Cup. Green stadia, waste management, community sport, reducing and offsetting carbon emissions, renewable energy, climate change and capacity development were some of the key issues addressed.

A total of US\$20m (15m euro, £13m) has been be invested by FIFA in the implementation of the strategy. Further support for the sustainability effort has been provided by FIFA's commercial affiliates and other stakeholders. The strategy builds on the experience gained from environmental and social development programmes at FIFA tournaments since 2005, on international standards such as ISO 26000 and the Global Reporting Initiative and on the development policies of the government of Brazil. The 2014 FIFA World Cup Brazil was the first FIFA World Cup to have a

SUSTAINABILITY

comprehensive sustainability strategy. One of the newly-built stadiums – Estádio Nacional in Brasilia – is now rated as one of the world's most sustainable stadia. The 72,800-capacity venue, designed by Castro Mello, is carbon neutral and was the first in history to be awarded the highest sustainability certificate, the LEED Platinum.

Federico Addiechi, FIFA's head of corporate social responsibility, said: "The goal was to stage an event which used resources wisely, striking a balance between economic aspects, social development and environmental protection. We wanted the 2014 World Cup to be remembered not only as a fantastic football tournament, but also for its lasting social and environmental legacy."

Methods included

Green Buildings: Many of the stadiums achieved LEED certifications and were fitted with solar panels . In addition, FIFA and LOC organised certified training courses on sustainable management for all stadium managers

Waste management: The objective of a new waste law in Brazil is to better control

Getting into the swing of things

The luxury Six Senses Con Dao resort on the island of Con Son in Vietnam has come up with a novel, eco-friendly way for guests to practise their golf swings in environmentally delicate surroundings.

The resort has introduced Ecobioball - balls that have a core made out of fish food. The food is released when the outer cover of the ball biodegrades – around 48 hours after coming into contact with the handling and the destination of waste. FIFA and LOC promoted recycling in collaboration with local cooperatives. **Climate change:** FIFA and LOC will estimate the tournament's carbon footbrint and developed wide-ranging measures to avoid, reduce and offset emissions.

Metlife Stadium is looking to influence fan behaviour with education programmes and by actively promoting the use of public transport and car pooling on match days

Volunteer training: Additional training modules were offered to all 2014 FIFA World Cup volunteers enhancing their future employment opportunities.

METLIFE STADIUM

The Metlife Stadium in East Rutherford, New Jersey, US has made its name as one of the most sustainable stadiums in American professional sports. Creating a green venue was one of the key issues for the New York Giants and New York Jets – the two NFL teams that built and now operate the venue through a 50/50 partnership – MetLife Stadium Company.

The New Stadium, built on the site of the former Giants Stadium, has succeeded in reducing water demand by an estimated 11m gallons per year – or a 25 per cent reduction in the average annual water demand. The major water conservation design features include synthetic turf – saving 3.5m gallons of water per year – and the waterless urinals throughout the men's restrooms, saving an additional 2.7m gallons per year.

Metlife also uses energy efficient, United States Environmental Protection Agency Energy-Star compliant concession equipment, heating cooling and ventilation systems and lighting, which use 25-50 per cent less energy. This reduces costs without compromising quality of performance, reduces air pollution, provides a significant return on investment, and typically has an extended product life and decreased need for maintenance. Energy efficient

water. Although ardent golfers will find the ball a little sluggish for competition on the greens, it is perfect for practice.

While the idea might seem outlandish, there is a serious side to the initiative – the balls are a more sustainable way for guests to play golf in a region that has a beautiful yet vulnerable eco system. There is no need for floodlighted driving ranges as the ball can be safely launched from any surface – and as an added plus gives local fish a free lunch.



The ball can be safely hit from any surface



The Metlife Stadium in New Jersey uses 25 per cent less water each year than its predecessor, the former Giants Stadium

Low E coating/glazing has also been used in the windows. Compared to the old Giants Stadium, the glass used at Metlife transmits 56 per cent less destructive UV light, is 51 per cent better as an insulator, and is 24 per cent better at reducing heat gain – while only sacrificing 3 per cent of the total visible light available.

There's also a long-term commitment to reducing solid waste by 25 per cent through recycling and composting programmes. Fifty tons of solid waste is produced on an average game day in the parking areas and another 20 tons is produced in the actual stadium.

Fan behaviour and eco-awareness among spectators is another area that Metlife is seeking to influence. Both teams actively promote the use of public transport and car pooling/ride sharing for spectactors travelling to events. There are comprehensive fan education and participation programmes which use public service announcements; scoreboard



The Thyagraj Sports Complex in New Delhi

messages; "green" programme goals and achievements via web site portal; Green Promotional Events.

THYAGARAJ STADIUM

New Delhi's Thyagaraj Stadium is the first sports venue to receive a gold rating from the Indian Green Building Council (IGBC). Designed by architects Peddle Thorp for the 2010 Commonwealth Games, the venue has earned a CII-IGBC-Gold rating.

Eco-friendly solutions at Thyagaraj include the use of solar panels to provide all electricity for lighting - with any excess generated being fed into Delhi's main power grid using integrated photovoltaic cells. Other key features incorporated in the stadium include the use of rainwater harvesting for flushing and horticulture, double-insulated glazing and an independent sewage treatment plant with a capacity of more than 200,000 litres a day. Thyagaraj Stadium is owned by the Government of National Capital Territory of Delhi (GNCTD) and is part of the larger Thyagaraj Sports Complex. GNCTD's chief minister, Sheila Dikshit, said the IGBC award reflected Delhi's pioneering role in promoting eco-friendly practices. She added that the success of Thyagaraj would encourage other states in India to invest in more sustainable sports infrastructure.

SPORTS TECHNOLOGY

TECHNOLOGICAL REVOLUTION

From fan engagement apps to the array of gadgets designed to enhance performance and training techniques, technology is radically altering the face of sports. We look at some of the products at the heart of this revolution

JASON HOLLAND • PRODUCT JOURNALIST • SPORTS MANAGEMENT

Premier League manager uses DNA profiling to assess which of his players is most likely to pick up an injury and adjusts training sessions accordingly. A legend of the national football team receives a much-needed massage during play from the shirt he is wearing. And sitting in the



stadium, a fan uses his mobile phone to not only purchase a seat upgrade, but also book a once-in-a-lifetime experience out on the field of play.

These are not visions of the future but are all things that are happening now. Combined with a plethora of other developments, they represent the leading edge of how technology is changing the way sport is played, analysed, coached and watched. And they are not just applicable to the top echelons of the sporting world - but to all varieties of amateurs, fitness enthusiasts and fans.

Unlocking performance potential

Professional sports coaches and managers have long used statistical

DNAFit has pioneered a DNA test which analyses the link between genes and sporting performance analysis to inform their decisions, but new technologies are revolutionising the process to offer a means of predicting anything from injuries to the outcomes of games. UK-based company DNAFit is pioneering a DNA test which analyses genes linked to areas of sporting performance, with the idea of creating a unique training and nutritional programme for an athlete's individual genetic profile.

After taking swabs from the athletes' mouths, the company conducts a specially-developed test of the DNA to assess key sporting areas such as power, endurance, speed of recovery and susceptibility to injury. The test also provides information on tolerance to various food types such as carbohydrates and saturated fats.

Two anonymous English Premier League clubs and a top European football club have reportedly used DNAFit's test to discover the best training methods for individual footballers and assess who are

the most likely candidates to pick up an

complete beginners, allowing anyone to

match their results against the professional

athletes who've made their results public.

completely different type of technology but has also made it available to players

of all abilities. FWD Powershot is a sensor

that fits in the end of an ice hockey stick,

potentially improve their power or form.

The FWD features a high-performance

allowing its user to measure different

aspects of their performance and

Canada's Quattriuum has developed a

injury. The product is also available to

detect and analyse complex movements, resulting in players being able to collect data related to the acceleration and speed of the stick, the angles and duration of movement, as well as the speed of the stick's rotation. The seven-inch long sensor

weighs only 50 grams – so

does not add a significant bulk to a player's stick. It works via bluetooth connection, and Quattriuum has released a mobile app called FWD Sportscard that records statistics on up to 1,000 shots, with a range of 10 metres. The FWD is also linked



The FWD Powershot sensors are fitted on the end of ice hockey sticks, allowing users to measure a number of data points

to social networks, meaning users can also compare stats with other players around the world.

In a similar vein, US startup company Zepp has developed its own sensor to measure the movements of baseball, golf and tennis players' actions. The one-inch sensor attaches to

the various pieces of equipment used in the sports and tracks a number of metrics, with the data transferred to apps on Android or iOS devices. The information it provides can then be used to target areas for improvement, offering players and

SPORTS TECHNOLOGY

IBM's predictive analytics has been used in both tennis and rugby (right) and offers fans real-time statistics

 coaches the chance to observe, assess and manipulate data to adjust training regimes.

Track and improve

These sensors are among an everincreasing array of products able to gather data with the aim of improving performance – whether they are wearable on the wrist, wrapped around an arm, embedded in a shirt or placed in running shoes, or in the above cases, a hockey stick or golf club.

The field is growing at such a rate that many technology giants are taking a real interest. Both Apple and Samsung have unveiled activity and fitness tracking platforms, which would be available to customers of all levels of ability and aim to bring a range of information together into one space to create a complete profile of a user's health and fitness.

Apple's Healthkit tracker comes with a user-facing app called Health, and will

feature a number of highprofile collaborations with companies such as Nike. It is also working with renowned US health provider Mayo Clinic to integrate medical information via

> Samsung's Simband has been heralded as "the future of wellness metrics"



With HealthKit, you can now get a single, comprehensive picture of your health situation

the new platform, which will be part of its new operating system iOS 8 for both iPhones and iPads.

"Developers have created a vast array of healthcare devices and accompanying applications – everything from monitoring your activity level, to your heart rate, to your weight, as well as chronic medical conditions like high blood pressure and diabetes," said Craig Federighi, Apple's senior vice president of software engineering in June 2014. "But up until now the information gathered by those applications lives in silos. So far you haven't been able to get a single, comprehensive picture of your health situation. "But now you can. HealthKit provides a single place that applications can contribute to a composite profile of your activity and health."

Samsung has unveiled a prototype wristband, Simband, and the technology platform Sami (Samsung Architecture Multimedia Interactions). Simband will likely feature wi-fi and Bluetooth connectivity, while Sami would serve as a cloud-based system to store all of the collected information. Using a number of digital display systems, Sami would then be able to present its user with a number of different readings related to their health and fitness.



The company hopes to have a beta version of both the Simband and the resulting digital interfaces used for Sami by the end of 2014, in order to give other developers the chance to help progress ideas toward collecting and sharing health-related data.

Another big player, computer giant IBM, is focused on developing predictive analytics to aid predicting the outcomes of games. It's developed a tracking system designed to forecast who is most likely to win tennis matches. IBM's SlamTracker combines 39m data points gathered from seven years of Grand Slam tennis matches to determine each player's pattern of play. IBM has focused on predictive analytics systems to assist professional coaches and broadcasters to predict outcomes

Used at the 2013 and 2014 Wimbledon Championships, footage was taken from 3D cameras placed around the court as games were played to monitor how players were performing. The research data was then compared with footage to establish critical aspects of play that could help to determine the winner of the game. A similar system was tested during rugby's Six Nations tournament, and IBM has also been using its predictive analytics software in the English Premier League, where games featuring three top teams have been monitored.

The IBM system has the additional benefit of enhancing fan engagement, with fans able to observe a range of stats and metrics while games are played live. For this reason, the system has been put into operation on governing body the Rugby Football Union's website. Similarly, the player-specific data that is obtained through devices such as Zepp and the FWD Powershot could potentially be used to supply viewers or commentators with more detailed information and analysis.

SPORTS TECHNOLOGY

 Fan engagement and participation New technologies designed to improve the fan experience cover more than just data analysis, however. Australiaheadquartered Wearable Experiments (We:eX) has developed a shirt which enables fans to experience the same sensory sensations as athletes in real-time during games and contests.

The Alert Shirt receives real-time sports data transmitted via a Bluetooth smartphone app to a set of electronics embedded within the jersey. It then converts this data into powerful sensations that simulate live sports action, allowing fans to gain a sensual experience based on what is happening to sportspeople during an event.

"Wearable technology must be intuitive and seamless within our daily lives, enhancing our life experience while connecting us to other people and the world," says Billie Whitehouse, designer and director at We:eX. Our new product is a major first step in the right direction.



Zepp's 3D Baseball Swing Analyzer can also be used to analyse and improve golf swings



Alert Shirt is about connecting humans across vast distances and bringing the emotions, frustrations and joys of the active game to life in a way that we've never been able to experience."

The shirt could, for an example, feature the latest sensation that professional footballers are experiencing – an in-game "micro massage". In manufacturing shirts for Italy's national team to wear at the 2014 World Cup, Puma added micro-massage taping laced into the fabric to "provide players with a faster, more effective energy supply to the active muscles". It is another example, though, of a technology that could easily filter down to the general consumer market.

Elsewhere, apps provide an ideal platform for sports teams to engage with their fans because they are easy to use, are mobile and have a vast potential user database. One obvious method of using an app is to enhance fans' social experience during game play. Professional rugby club Newcastle Falcons has done just that by partnering with local technology company Spontly, producing an app that enables fans to take photos and post commentary during a match which will be instantly available online.

A major stumbling block for such apps though is stadium connectivity. To get round this, Spontly says it uses compression techniques and an outbox function that stores and then sends the posts in the background as and when there is a connection, therefore relying more on 3G than a wi-fi connection.

US company Experience has taken the use of apps a step further. The company will implement technology for Major League Soccer club Sporting Kansas City offering fans the chance to purchase seat upgrades and one-of-a-kind experiences – such as attending player meet and greets at the team's Sporting Park – from their mobile devices.

The technology will be integrated into the existing Sporting Club Uphoria mobile application for iOS and Android, which offers video highlights and live stats among other features. In addition to the





Sporting Kansas City has invested in creating an interactive fan experience

fan benefits, the tool also captures data and integrates with customer relationship management systems, allowing the sports teams to make marketing decisions in real-time and provide more focused offerings to fans.

Other apps focus directly on encouraging participation in sports, helping teams or local clubs find new members, matching game opponents or training partners, or discovering other enthusiasts to cover for injured teammates. For example, Canadian software company Geosports has developed an app specifically designed to try and increase participation in sport. It allows users to advertise the sport they want to practice, along with the time and date that they are available, with a notification being sent out to other users with the same interest near to their chosen location.

Finally, augmented reality has the potential to completely transform the way fans experience sports events. Google Glass, with its small heads up display,





Technology is increasingly being used in managing stadiums and facilities



could offer the fan all sorts of information during a game, from stats, news and videos to presenting directions to the venue and to their seats, as well as pricing and special offers for merchandise or food.

NBA basketball team the Orlando Magic utilised Google Glass technology for a game against the Brooklyn Nets during the 2013-14 season. Fitting two players, broadcasters and the mascot, Stuff, with Google Glass eyewear, their varying perspectives of the in-game experience were captured in real-time and projected on a high-definition video board at the team's Amway Center arena, using CrowdOptic's software platform. This gave fans a unique insight into game day events, and the team is currently exploring

SPORTS TECHNOLOGY



Avegant Glyph's Virtual Retina Display (above) and Google Glass (right) are set to transform the way sports are consumed and viewed by fans

ways to incorporate the technology at other games next season.

A device such as Avegant Glyph's Virtual Retina Display has the potential to take the fan experience even further. With this headset, an image is created when a lowpowered colour LED is reflected onto an array of two million micromirrors, which shape the light into a two-dimensional image that is beamed straight onto the wearer's retina. In theory, this offers the chance to experience a sport as if sitting in the front row, with a 45 degree field of view, no TV outline, head tracking capabilities, and built-in audio, all delivered via a streaming media application.

It is still early days for such technology but the possibilities are numerous.

Facility-based improvements

Another major strand to the integration of technology into the sports industry is in managing the stadiums and facilities



that the sports are played in. A good example of this is Dutch football club AFC Ajax's home, The Amsterdam ArenA. A contract with the Municipality of Amsterdam was signed in April 2014 which will facilitate the use of tablets and smartphones in the stadium and implement new methods of crowd management around the arena.

In the coming years the stadium will also innovate the use of energy grids, improved connectivity and the use of applications for visitors attending the venue and its surrounding areas.

Ajax's home stadium will also become a testing ground for new tech innovations and ideas, with stadium owners Ajax pushing forward with the formation of an onsite "Living Lab".

The logic behind the idea will allow for companies to test their inventions and ideas, with successful creations being promoted by the stadium and its partners for application in other venues and recreational sites across the world.

Although these developments all appear positive, crowd management techniques can be a controversial issue. The use of face recognition technology, for an example, is already being used to monitor sports fans – as well as identify "known troublemakers" – at the gates of stadiums – and is becoming more prominent.

Already in use in the US, South America and Germany, the technology is used to scan and save the images of people entering grounds, with the data being stored on a country-wide database.

Although there may be concerns about a possible invasion of privacy, the aim of using such technology to eradicate sports-related violence and troublesome fans is a noble one, and neatly illustrates the sheer variety of uses for new technology in sport. The revolution is only just beginning.

SPORTS MANAGEMENT HANDBOOK

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Keith Ashton, director

Background briefing

AFLS⁺P is the leading designer of sports and leisure buildings around the world. Our wide experience covers the delivery of major Olympic projects and FIFA World Cup venues to community sports pavilions. We work in the leisure, sports and health and fitness markets - ranging from small-scale refurbishments to large asset improvement programmes.

Main services

AFLS⁺P is the UK's largest architectural practice specialising in major sport, leisure and community infrastructure projects across Europe, the Middle East, Africa and Asia. With more than 30 years of experience, we advise on, develop and deliver the very best solutions for our clients. We have developed a reputation for providing exceptional solutions which recognise operating requirements and maximise development profitability.

AFLS⁺P couples good design with excellent project delivery. We focus on increasing participation in sport and the economic sustainability of the facilities we develop. Each place we create has an appropriate identity and a focus on commercial success.



Additional services

Alongside our architects, masterplanners, project managers and designers, our consulting team advises government organisations on best-practice thinking and the creation of development toolkits for successful project delivery.

Top clients

National olympic committees, sports clubs, trusts, charities, health and fitness clubs, sports operators, national and local government and national governing bodies of sport. AFLS⁺P has also designed

and completed projects in other diverse market sectors, including commercial, health, office, education, entertainment, retail, art and culture. leisure, residential, industrial, interior design and mixed use.

Where in the world?

UK, Europe, Asia, Middle East, Africa.

Who's who?

Keith Ashton, director John Roberts, director Phil Osborne, director Peter Simpson, director

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Background briefing

Charles Lawrence Surfaces has been at the forefront of the artificial sports surfacing industry since 1975, making it one of the most respected and long established names within the sector.

Main products and services

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Additional services

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USPs

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Who's who:

Andrew MacAllister, director (managing) Tony Aitchison, regional director (construction) Craig Ford, estimating manager Jason Young, quality assurance and health & safety manager



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Rob Thurston, Commercial Director

About us

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CYBEX manufactures the industry's largest selection of strength equipment, with over 150 unique pieces comprising four lines of selectorized equipment including the new 12 piece Eagle NX range, the Bravo Functional Training series of cable machines, plate-loaded, free weights and Big Iron power racks. Cardio includes treadmills and bikes plus the revolutionary Arc Trainer, all with integrated entertainment and iPod connectivity options. CYBEX's most advanced entertainment console, the E3 View is also available with the 770 cardio series. CYBEX manufactures a full IFI accredited Total Access range.



Cybex produces a wide range of strength equipment

Additional services

CYBEX also provides customised 3D CAD facility design consultancy and bespoke marketing packages, offers flexible financing options, ongoing service and warranty support and runs over 30 Register of Exercise Professionalsaccredited seminars across the UK.

Top clients

Nuffield Health, Northampton Borough-Council, Telford & Wrekin Council, Metro Fitness, University of Bristol, University of Birmingham, University of Liverpool, University of Nottingham, Champneys Health Resorts, Sole Fitness, Ricky Hatton Health & Fitness & SportHouse. Shows attending in 2014 IHRSA, FIBO, Body Power Expo, LIW, SIBEC EU, Snap Fitness, Reebok Sports Club.

Shows attending in 2014

IHRSA, FIBO, Body Power Expo, LIW, SIBEC EU, ukactive Flame Conference, Higher Education Estates Forum.

Testimonials

"When a colleague described CYBEX equipment as 'the best on the market', I had to find out more - I visited existing CYBEX client Hatton Health & Fitness and was immediately impressed by what I saw, particularly the strength lines. I now tell everyone that once you've used CYBEX equipment you won't find anything better and the feedback from our members is proof of that." Simon Sole, owner, Sole Fitness (Cybex UK showcase site)

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- Industry and on-site knowledge combine for an efficient and comprehensive build.
- Cut the ribbon and your new space is ready for action!

Escape Fitness offers a tailor-made approach to gym design to ensure your facility, no matter how big or small, stands out from the competition.

Our ABC solution brings your vision to life through exceptional equipment and flooring to create a functional area that will not only attract, but also retain, your members.

For more information call one of our specialists on **01733 313 535**, visit **www.escapefitness.com/dreamspace** or email **sales@escapefitness.com**





Escape Fitness

The Office Village, Cygnet Park, Hampton, Peterborough, Cambridgeshire, PE7 8FD, UK

Tel: 01733 313535 Email: sales@escapefitness.com Blog: www.escapefitness.com/blog Web: www.escapefitness.com Twitter: @escapefitness Linkedin: www.linkedin.com/company/escapefitness Facebook: www.facebook.com/escapefitness





Matthew Januszek, customer solutions director

Background briefing

Since starting 15 years ago, Escape Fitness has built a reputation for product innovation, quality and design and through great partnerships, has managed to grow and compete in very challenging markets. Escape Fitness has been invited to work with more than 1,000 businesses from 54 countries across the globe.

These comprise small start-ups to major multi-nationals requiring membership engagement and business growth strategies. Some have gone on to become major players in our industry.

Main products and services

Escape Fitness is a leading expert in functional fitness solutions - designing, equipping, installing and educating. Frustrated with the low quality and durability of goods coming out China, Escape Fitness set up a factory becoming the first in the world to get TUV certification for the manufacture of free-weights from China. By delivering not just the product, but also the know-how, Escape Fitness better prepares clients for success allowing them to provide unique and engaging fitness experiences, thus reducing member attrition.



Escape is seen as the specialist in providing functional training solutions

Top clients

Escape Fitness' business has been built on repeat customers and word of mouth. It works with some of the industry's leading brands and has done consistently since it started. Companies and brands like Fitness First, Virgin Active, Equinox, UFC Gyms, Crunch Fitness, David Lloyd, Jatomi, Reebok Sports Club, The Third Space, Nuffield Health, MAC Fitness, Anytime Fitness among others.

Plans for 2014-15

Having made vast inroads into the USA fitness market during 2014, as well as expanding further into the rest of the world, Escape Fitness plans to continue its global growth.

It plans to focus on developing innovative products, design and education solutions and continuing to build and develop great partnerships in a very challenging global health and fitness market.



FAULKNERBROWNS ARCHITECTS

Experts in the design of sports buildings for community, training and events

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www.faulknerbrowns.co.uk

FaulknerBrowns Architects

Dobson House, Northumbrian Way, Killingworth, Newcastle upon Tyne, Tyne and Wear, NE12 6QW UK

Tel: 0191 268 3007 Fax: 0191 247 8132 Email: email@faulknerbrowns.co.uk Web: www.faulknerbrowns.co.uk Twitter: @FaulknerBrowns

Background briefing

FaulknerBrowns is renowned for outstanding performance in the delivery of innovative, award-winning and recordbreaking buildings.

These include facilities for community use as well as elite training and competition. Venues have an inherent flexibility offering broad appeal to all ages and abilities in which to compete, train or relax.

Main products and services

The design service we offer extends from initial feasibility studies through all the design stages to completion of the building on site, leading the design team and co-ordinating and managing the client and contractor teams.

This also includes master planning, urban design and interior design on all projects. We work with our clients in the development of briefs through value management workshops to identify their requirements and aspirations for the project so that the completed building delivers the critical success factors for the project. In addition, we're experienced in assisting clients in the production of business plans and will work them to ensure the commercial viability of the facility throughout its lifetime.



The plans for the Toronto Velodrome in Canada

Additional services

We have a contract administration section which will provide advice to clients on relevant procurement routes; BIM capability; in-house model making and graphic design.

USPs

UK-based architects with national and international reputation in the successful delivery of sporting venues



Sports partner Mike Hall

• Award-winning designers of innovative, sustainable community and elite training and competition centres across the globe

• Delivering commercial viability through creative mixed-use leisure destinations

 Meeting the highest sporting expectations through dynamic leisure experiences and unique facilities

Top clients

FAULKNERBROWNS

ARCHITECTS

Universities of Aberdeen, Bangor, Lancaster, Newcastle, Oxford, Sunderland and Surrey; ODA and LRVPA; Derby City Council; In Holland – The Council of The Hague and BAM; In France – Altarea; Redeim; Immochan; In Dubai – Dubai Municipality; In Canada – Bouygues Building; Hammerson UK; Ballymore; C & R; Intu; Carillion Developments.

Where in the world?

Europe, Middle East, Canada and Asia

Who's who:

Michael Hall, partner Russ Davenport, partner John Holt, senior director Nigel Tye, director Henk Merle, director





TTT



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Paul Fraser (left), Lee Gladwell (centre) and Grant Anderson (right)



Background briefing

FieldTurf is a world leader in artificial turf innovation with more than 7,000 sports field customers across the globe. The inventor of the 3G artificial turf systems is part of Tarkett Sports, the sports division of the Tarkett Group.

Main products and services

The company has a range of synthetic turf products designed for soccer, rugby, and hockey at all levels of the game. The company also has a complete range of tennis, golf and landscape surfaces. FieldTurf offers a wide range of possibilities with various options of: pile height (from 12 to 70 mm), fibers (monofilament, fibrillated, texturized, combined), infill (SBR, Cryogenic, TPE, cork) and shock pad (pre-fab or in-situ).

Through the perspective of driving relentlessly to improve artificial turf systems, FieldTurf integrated its own yarn manufacturing plant, based in Germany, becoming one of the most vertically integrated companies in the industry, thanks to its full control over all elements of the turf system: yarn, tufting, coating, installation and maintenance. Many international sports federations and



professional institutions of sports choose FieldTurf, considered as a system with a high technology and high innovative concept (safety, comfort and playability).

Additional services

FieldTurf is a FIFA Preferred Producer, an IRB Preferred Producer and a partner of the most important federations such as FIFA, IRB, ITF and FIH. FieldTurf is a member of the European Synthetic Turf Organization and has developed strong partnerships with sport federations ensuring FieldTurf's global presence.

USPs

At Fieldturf, giving full satisfaction to our customers remains a priority. To satisfy the customer, it is essential to take into account their needs, but also their constraints, especially if they are technical or budgetary. FieldTurf's state-of-the-art products represent years of expertise that has led to our unique patented concepts. Fieldturf's product range promotes performance and flexibility and is at the leading edge of technology and innovation.

Top clients

Cardiff Blues, FC Barcelona, Red Star FC, Cambuur Leeuwarden, VVV Venlo, Paris-Saint-Germain, Ajax Amsterdam, Clairefontaine, FSV Gütersloh 2009, FC Thun, FC Wil, Qviding FIF, Volendam FC, Michigan Wolverines, Zenit Saint Petersburg, Hockey Club Lugano, Aviron Bayonnais, New England Patriots, Maidstone FC and FC Luzern.

Testimonial

"The new surface will allow games to go ahead no matter the weather and will enable us to play a more expansive and attractive game for supporters to enjoy." *Cardiff Blues CEO Richard Holland:*

Who's Who

Paul Fraser, sales director Northern Europe Grant Anderson, sales manager UK Lee Gladwell, sales manager UK

software for Life



ingford

th June -+

Vince

Oliver Cromwell

Register

gladstone

Gladstone Health & Leisure

Hithercroft Road, Wallingford, Oxfordshire, OX10 9BT, UK Tel: +44 (0)1491 201010 Email: sales@gladstonemrm.com Web: www.gladstonemrm.com Twitter: @gladstonemrm





Arthur Morris, managing director

Background briefing

Gladstone Health & Leisure has been at the forefront of leisure management software technology for more than 30 years. We are the trusted software partner for leisure centres, sports facilities, universities and health clubs across the UK, Ireland, and Australasia. More than 30,000 licensed users rely on our membership, bookings, check-in, security, point of sale and business intelligence applications everyday.

Millions of members also benefit from our products by booking, signing up for memberships and making payments on the web, on their smartphones or through self-service kiosks twenty-four seven.

At the heart of our product range is a single database that links with multiple modules to give the most comprehensive and flexible leisure management solution on the market. This means that a Gladstone system will benefit you with all the great features of the market-leading Plus2 product and can bolt on additional modules to drive even more value for your business.

Product range

Leisure management software including membership management, epos, booking, resources, reporting, access, kiosks,



swim school software, contact manager, mobile, theatre bookings and online customer portals.

Additional services

Custom development, project management, online and on-site training, implementation, 3rd party integration and card services.

Key customers

Leisure trusts, local authorities, universities and private chains.

Shows attending in 2014-15 LIW

Key personnel

Arthur Morris, managing director Scott Saklad, CEO Tom Withers, sales & marketing director

Testimonial

"It has been great to see Gladstone working in conjunction with its customers over the past couple of years. This has resulted in them successfully delivering on a number of key developments with Edinburgh Leisure and our customers are reaping the benefits." Stuart Fairbairn, ICT Manager, Edinburgh Leisure. Beach Volleyball Grand Slam, Klagenfurt (Austria)

Only the referee will be closer to the action.



NUSSLI ensures the reliable implementation of your grandstand systems with custom solutions and sophisticated logistics processes – from the initial planning to the final handover.



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NUSSLI Group

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Background briefing

NUSSLI was founded in 1941 as the Nüssli Carpentry Workshop in Hüttwilen, Switzerland. Whether temporary, modular or permanent structures – with the realisation of complex projects over the past decades – NUSSLI has seen to it that events, trade fairs and exhibitions have all left a memorable impression.

Main products and services

Our key products include grandstands, stages and modular stadium solutions as well as overlay works for major events. NUSSLI's wide-ranging services and products combined with the company's planning and production capabilities make the business unmatched in events around the globe.

Additional products

www.sportshandbook.com

NUSSLI also provides top-quality solutions in the trade fair stands, pavilion and museum construction sectors.

USPs

The fusion of long-standing expertise, in-depth know-how and an international network ensures focused, cost-efficient realisation of customer specifications.



NUSSLI built a 52,013-seat grandstand arena for the traditional Swiss Wrestling and Alpine Festival 2013

Hallmarks of the products and services are short turnaround times and high quality. The company's success is driven by absolute commitment and networked operations. Our employees are specialised experts who build on the experience gained in mastering their daily challenges. Capitalising on experience is vital to achieve the exceptional.

Where in the world?

Wherever a project is to be implemented, we take care of it. In addition to running international subsidiaries in Western European countries and the USA, we are present wherever our clients need us. We operate at local and international levels, forming project organisations on the spot and implementing projects worldwide. We know how to integrate regional partners and suppliers into our international network. Our intelligent logistics system enables even extensive event, trade fair or exhibition projects to be reliably implemented on time.

Who's who?

Bernd Helmstadt, director sales events

INNOVATIVE EQUIPMENT SOLUTIONS



FORWARD THINKING FITNESS

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Physical Company Ltd

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Background info

Physical Company provides complete health and fitness solutions, including equipment, education & design to individuals and organisations across the UK and Europe. Our broad range of equipment covers all aspects of fitness including: free weights; strength; studio; functional; mind body and wellness. We work hard to offer our customers the best customer service in the industry, as well as offering innovative equipment ranges from world-leading manufacturers.

Main products

We distribute BOSU®, Total Gym®, Human Trainer®, X-Lab Functional Training Rigs, Stroops Performance range, freeFORM Board and Stott Pilates[™] as well as offering a wide range of own-brand commercial fitness equipment covering studio equipment and storage, strength equipment, functional, and sports specific training.

Additional services

Physical EX:CEL is our REPS accredited training system which provides faceto-face and online education to fitness professionals throughout the UK.



Key customers

Virgin Active, David Lloyd, DW Sports, SLM, NHS, Emergency Services, LA Fitness and Fusion Lifestyle.

Plans for 2014-15

2014 will see the launch of 3D XTREME™. It's a unique, high-intensity, teamoriented workout that combines functional, integrated, total body conditioning with explosive cardio and interactive challenges.

Shows attending in 2014 FIBO, FitPro Live, LIW, Fitness Fiesta.

Key personnel

Penny Halls, managing director John Halls, sales & marketing director









Imaginative sports building solutions

The design flexibility, speed of on-site construction and cost effective operation of Rubb sports facilities can help your organisation meet its goals with a competitive edge.

Rubb Buildings Ltd designs and manufactures temporary and permanent custom made fabric building solutions for a wide variety of sectors. Contact us today to find out more.

- Quality materials
- Clear span
- Bright open space
- Affordable
- Fast project times

- Modular designs
- Relocatable
- Extendable
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Rubb Buildings Ltd

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Background briefing

Rubb was founded in 1977 and has a proud history of delivering innovative and quality structures to a wide range of clients. All products are designed and manufactured at Rubb's UK plant at the Team Valley Trading Estate in Gateshead.

Main products and services

Rubb Buildings Ltd designs and manufactures relocatable, semi-permanent and permanent fabric engineered specialist sports buildings.

The company's sports structures feature a high strength PVC-coated polyester membrane cladding tensioned over an engineered steel framed system. The benefits of this system include rapid installation, superior structural performance and low life cycle costs.

The custom-design flexibility, speed of on-site construction and cost-effective operation of Rubb sports facilities can help your organisation meet its goals with a competitive edge.

Additional products

Highlights include specialist sports buildings, indoor training facilities, multi sports buildings, sports halls, school sports



structures and covered areas for football, tennis, netball and multi use games areas.

Rubb also provides military buildings and structures for other sectors, including aviation, ports, construction, bulk storage and environmental (waste/recycling).

USPs

Cost-effective, large span buildings that will accommodate a wide variety of sports, while meeting the highest of standards with regard to materials used.

Rubb provides custom-designed structures to suit individual sporting requirements. The benefits of our sports buildings include flexibility, rapid design, manufacture and project completion times and low running costs due to the virtually maintenance free nature of the structure and naturally bright interior. These structures generally cost approximately a third of the price paid for equivalent traditional buildings. In addition, all our buildings can be dismantled, sold and reused as required.

Top clients

Sunderland Association Football Club; Newcastle United and West Bromwich Albion Football Clubs; Oakmead College of Technology; Magherafelt District Council (Meadowbank Sports Arena); Budehaven Community School; Paignton Community and Sports College; St Mary's CE Middle School; Blue Flames Leisure Centre; Taunton Vale Sports Club; Soccarena Durham; Stourport Netball Dome; Ipswich Academy; and Mid Ulster Sports Arena.

Where in the world?

The Rubb Group has offices in the UK, USA, Norway, Sweden and Singapore, with manufacturing facilities in the UK, USA and Norway.

Who's who?

Andy Knox, sales manager; Grant Davidson, sales executive; and Clare Wilson, marketing manager.

Find the perfect match

UK Trade & Investment can connect your organising committee or sporting federation to world leading UK suppliers





For more information, contact Jason Goddard, Deputy Head, Global Sports Projects Team on +44 (0)20 7215 4394 or jason.goddard@ukti.gsi.gov.uk

www.ukti.gov.uk

UK Trade & Investment is the Government Department that helps UK-based companies succeed in the global economy.

We also help overseas companies bring their high quality investment to the UK's dynamic economy – acknowledged as Europe's best place from which to succeed in global business.

If you are looking for UK partners, goods or services for global sports events, UK Trade & Investment can help. Its wide network of international specialists and UK-based companies will help make your project a success.



UK Trade & Investment

1 Victoria Street, London, SW1H OET, UK Tel: +44 (0)207 215 4003 Email: andrew.bacchus@ukti.gsi.gov.uk Web: www.ukti.gov.uk Twitter: @UKTI Linkedin: UK Trade & Investment





Andrew Bacchus, head, Global Sports Projects Team

Background briefing

UK Trade & Investment is the government department that supports UK companies to trade internationally and helps overseas businesses to set up in the UK.

The Global Sports Projects Team helps overseas event organisers to identify UK suppliers and to learn more about the UK's capability in this competitive field.

Main services

Inward and outward missions, seminars, trade events, briefings and workshops. These focus on helping UK companies identify export opportunities around global sports projects.

Additional services

UK Trade & Investment also offers strategic, impartial advice and research, which is tailored to the specific needs and growth stage of each company.

USPs

UK Trade & Investment's Global Sports Projects Team offers an in-depth understanding of global sports events, how they operate, where they will be hosted in the future as well as insight into market trends. Through its



The Global Sports Project Team advises overseas event organisers to identify UK suppliers

global network of commercial teams in 162 locations worldwide, UK Trade & Investment can help companies realise their export ambitions.

Top clients

The Global Sports Projects Team has assisted UK companies in diverse sectors, including architecture, engineering, security and project management to secure work in global sports projects. Where in the world?

The focus is on the future host countries of major sports events. In particular Brazil, Russia, Qatar, Japan, South Korea, Turkmenistan and Azerbaijan.

Who's who?

Andrew Bacchus, head Jason Goddard, senior manager Martin Olds, senior manager Simon Brown, senior manager

World Class Equipment World Class Results



Riders experience the ultimate indoor cycling experience thanks to the Wattbikes real ride feel and fully adjustable setup.

Whether you are looking to test, train or rehabilitate riders, nothing can match the Wattbike for **reliable**, **repeatable**, **measurable** data. The Wattbike is the ultimate indoor bike.

Developed in association with British cycling



Lucy Gossage IRONMAN Lanzarote 2014 Winner Wattbike Ambassador

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Wattbike Ltd

Vermont House, Nottingham South and Wilford Industrial Estate, Nottingham, Nottinghamshire, NG11 7HQ, UK

Tel: +44 (0)115 945 5450 Email: info@wattbike.com Web: www.wattbike.com Twitter: @wattbike Facebook: facebook.com/wattbike







Company background

The then head of performance at British Cvcling, Peter Keen - who was cvclist Chris Boardman's coach at the time - wanted to create a new type of training bike that was unlike anything else on the market.

The team at Wattbike had already built a conceptual idea of what this could look like and then began to consult with Peter to develop the end result. It took eight years to perfect the product, launching Wattbike in the autumn of 2008. Keen had wanted an indoor bike that could test his top cyclists and also find the next generation of talent (cyclists Laura Trott and Lizzie Armistead were both talent ID-ed on Wattbike), but it soon became apparent that the Wattbike had a much broader appeal.

What's so unique about the Wattbike?

Unlike most indoor bikes the Wattbike has a chain, chainring and sprocket just like a normal cycle enabling it to freewheel and match the experience of riding outdoors. Part of the resistance is magnetic, but most of it comes from a wind turbine at the front of the bike, which is the smoothest way of applying force to the rider, and it's calibrated exactly as it would be to a rider



A number of sports have adopted the Wattbike

on the open road. It also offers a Polar View, which is able to track the force of the left leg and right leg and evaluate how efficient and effective your pedalling is.

Which sports use the Wattbike?

It would be easier to list the sports not using the Wattbike these days. Obviously cycling took the Wattbike on early but this quickly spread to rowing, football, rugby union, rugby league, track and field, cricket and sailing. We've now got four Formula 1 drivers using the Wattbike. All of this is happening on a global basis too, from British Cycling to Cycling Australia, Manchester United to Hawthorn AFC, England Rugby and the All Blacks through to British Sailing and the Russian Ski and Snowboarding Team. We get really

excited when we see organisations such as the English Institute of Sport and the Australian Institute of Sport conducting research using the Wattbike as it validates so much of our work around ensuring the Wattbike is the most accurate indoor bike available today.

How are sports making best use of it?

The accuracy of measurement is key for sports at elite level. Providing accurate data which is comparable from one session or season to the next enables coaches to monitor progression on an individual or team basis. Because the Wattbike measures power so accurately, and doesn't just depend on heart rate, it can more effectively calculate the best training zone so you get the most efficient and effective workout possible. In April, Wattbike's advanced technology was recognised at the Sports Technology Awards, where it won the award for Best Training Product and was praised for its performance indicators, real time feedback and realistic styling. We were delighted to be recognised in this way, but it's also important to point out that while Wattbike is a highly scientific training tool, it's also a very intuitive machine that, quite simply, is great fun to ride.



One World goes global

The US-based One World Futbol Project has established a new European distribution centre meaning clubs in Europe, Africa and the Middle East can purchase the One World Futbol. It will be partnering with the Rhiem group to spread its distribution further. The One World Futbol is designed to be virtually indestructible for play in all types of terrain and rough landscapes, not deflating even when punctured multiple times. It has an equivalent life expectancy of ten regular footballs.

sport-kit.net KEYWORD: ONEWORLD

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the search engine for leisure buyers



Wherever you are in the world, find the right products and services 24/7 by logging on to Sport Management's free search engine www.sport-kit.net



sport-kit.net KEYWORD: ALTRO

Olympics recycling completed

Altro Flooring has successfully reused thousands of metres of its XpressLay floor, used during the London 2012 Olympic Games, for installations at various UK centres. During the 2012 games, XpressLay was used in the Basketball Arena and the Water Polo Arena as well as other venues. The adhesive-free safety flooring has been relaid in a range of new installations, including Barnado's, educational establishments and social housing.

Arena Group goes all out for ATP event held in London

Arena Group provided more than 9,000sq m of temporary structures at the Barclays ATP World Tour Finals. The group also created a triple decker hospitality structure for the Sponsor Hospitality Village during the tennis sporting event.

The company transformed The O2 in London ahead of the tournament, where Novak Djokovic beat Rafael Nadal in the final. Arena Group worked with ATP's production and sponsor hospitality teams to design and install a bespoke 15m x 35m triple deck hospitality structure overlooking the players' practice court.

It was engineered to fit against a 40m x 20m Tensioned Fabric Structure (TFS) housing the court. The TFS featured a new white lining to create a brighter environment for the players while maintaining the heat.

sport-kit.net KEYWORD: ARENA


Innovative rebound walls to bring tennis to new audience

UK-based Rebo has launched a new tennis training and play tool that aims to bring the game to more people across the country. Inspired by claims from tennis legends such as Roger Federer and John McEnroe that practicing by simply hitting a ball against a wall repeatedly was a major reason for their success, the company has created a free-standing, angle-faced rebound wall. A REBO Wall can be used for coaching groups and individuals, 'cardiotennis' fitness sessions and for players that want to practice on their own. Constructed from free-standing, prefabricated 2.5m high by 1.2m wide sections that connect together, it features an angled rebound surface nine degrees off the vertical – which provides a more realistic arced flight to the ball compared to just using a brick wall.

sport-kit.net KEYWORD: REBO



Twickenham's winning solution

The England rugby union team floored most of the Six Nations opposition this season and new facilities provided by sports flooring specialist TVS Sports Surfaces undoubtedly helped. The company provided a variety of materials to help refurbish Twickenham's National Fitness Centre including a plyometric sprint track, sled turf and heavy-duty Sportec Style tiles for its free-weights zone. It also supplied an innovative solution for both indoor ruck, scrummaging and line-out practice with synthetic turf with shock pad and artificial turf using a rubber and silica crumb infill.



sport-kit.net KEYWORD: TVS



Escape artists refit uni facility

Kent Sports Centre at the University of Kent had a makeover with help from Escape Fitness. The functional training area boasts yellow and black Tech Sport flooring with Escape's flagship Octagon functional frame coloured to match. The 'wet pour' EPDM flooring offers a variety of colour options, to identify and define different workout zones.

sport-kit.net KEYWORD: ESCAPE



Swinging into action

The Belfry golf resort has selected SISIS' turf maintenance machinery. The 'Megaslit' and 'Multislit' tractor mounted deep slitters will be used to maintain the greens, surrounds, approaches and fairways on all three PGA courses at the resort. Megaslit gives a deep, clean penetration and is designed for larger areas, while the smaller Multislit can be used on a compact tractor, minimising the overall weight on the surface. They join The Belfry's turf maintenance equipment fleet of more than 200.

sport-kit.net KEYWORD: SISIS

POWERED BY SPORT-KIT.NET



Band aid for top coaches

Stroops has agreed a deal with Physical Company for the rights to distribute its patented Slastix resistance band products in the UK. Slastix are multipurpose elastic exercise bands that add resistance to natural, athletic movements in the full range of motion.

The system is built around the demanding training regimes of professional sports. Stroops programming teaches coaches and trainers how to use the bands to identify weaknesses or imbalances in an athlete's movements.

sport-kit.net KEYWORD: STROOPS



sport-kit.net KEYWORD: SMITH

Polymeric division for Smith

Smith Construction has set up a new division focused solely on polymeric surfaces. Smith Polymeric is able to undertake full design and build contracts for the installation of new events areas, track repairs, track cleaning and full maintenance programmes. All work will be carried out by trained installers using International Association of Athletics Federations (IAAF) approved systems and specialist machinery.

Cardiff Blues RFC adds Octane Fitness x-trainer

Octane Fitness, the x-trainer supplier, has installed its new Octane Fitness LateralX with Cross Circuit dumb bell kit into the Cardiff Blues RFC gym Vale of Glamorgan training ground.

The Octane Fitness LateralX is designed to give a lateral-motion, elliptical movement that works in three dimensions.

It has 10 width settings to add muscle confusion to the hips, inner and outer thigh and glutes, while still working all the major muscle groups of the quads, hamstrings and calves.



sport-kit.net KEYWORD: OCTANE

Gerflor completes challenging sports hall refurbishment

Sports flooring specialist Gerflor has completed a challenging sports hall refurbishment at the Oatridge Campus of Scotland's Rural College in West Lothian.

The floor had to be installed on the concrete base of a former tractor shed. The unheated hall had high moisture content so the playing surface had to cope with both damp and extremes of temperature. The project managers – construction consultancy Thomas and Adamson – decided to go with 450sq m of Gerflor's Taraflex Sport M Evolution flooring, installed with Gerflor's Dry-Tex system, which uses the high moisture content as an essential part of the bonding process. The surface was laid by contractors Veitchi Flooring. Taraflex vinyl sports floor solutions have featured at every Olympic Games since 1976.

sport-kit.net KEYWORD: GERFLOR



Pulse's equipment hire scheme

Operator, developer and supplier Pulse Fitness has launched a new equipment hire scheme allowing health clubs to rent a range of pre-owned gym apparatus for their establishments. With the growing popularity of microgyms, specialist studios and clubs are currently at a premium.

Pulse says its new initiative removes some of the burden from gym start-up costs, making it easier for fledgling businesses to enter the market without being saddled with debt. Under the scheme, 25 stations can be hired for $\pounds 1,213$ per month for as long as the equipment is required. There are no obligations and equipment can be returned subject to one month's notice.

Operators can choose from a variety of different stations, such as treadmills, cross trainers, R bikes, steppers, U-Cycles and strength equipment.

sport-kit.net KEYWORD: PULSE

Fully functional floor lights The Functional Zone 3.0 floor by Pavigym is a high tech product that guides the user's training via a series of floor lights. It is designed as a tool for interval training, reaction training or speed, agility and resistance skills. Club members can keep track of their progress and challenge themselves and others by beating their best score. In addition, the 3.0 Vertical uses wall space to provide another training zone.





sport-kit.net KEYWORD: PAVIGYM

Kingfisher lights up sports park at Sheffield university

Kingfisher Lighting has completed an installation at Sheffield Hallam University Sports Park. The 22-acre sports park has benefitted from a £6m investment in its sports facilities. Kingfisher's exterior lighting design lights up to a 200 lux average with a 60 per cent uniformity. Kingfisher installed 15m and 20m base-hinged columns to enable the sports pitches to be evenly lit to high levels. The base hinge design allows the head frame to be lowered to the ground so that the luminaires can be easily and safely maintained.



sport-kit.net KEYWORD: KINGFISHER



Ice and effective therapy

Hyperice USA has created a two-part system for treatment of sports injuries.

Available for gyms to retail, the Hyperice device is composed of an 'Ice Cell' and a 'Compression Wrap', that work together to combine compression and cold therapy.

Ice is loaded into the cell and as it melts, pockets of air build up, creating a barrier between the ice and the compression wrap. The compression wrap maintains pressure on the ice and forms a cast around the injured areas.

sport-kit.net KEYWORD: HYPERICE



DLF seed used in Brazil

Seed from DLF's Johnsons Sports Seeds range was chosen for all World Cup stadiums and training pitches for Brazil 2014. The pitches needed to be reinforced with temperate sports turfgrass to provide the perfect playing surface. To meet this requirement, the pitches were overseeded with DLF's perennial ryegrasses including 4turf. The new turf type has larger seeds bred for improved stress tolerance, and have stronger root systems. The 4turf seed became widely available in spring 2014.

sport-kit.net KEYWORD: DLF

Ipswich Town boosted by integrated payroll solution

Bond Teamspirit's integrated payroll and HR software has now been in use at Ipswich Town Football Club for the past decade, with new legislation successfully adhered to last season. The company worked closely with the club to create a smooth, seamless process for the adoption of both real time information (RTI) and auto-enrolment.

This involved assessing the information

Wibit brings Aqua course to London Olympics venue

Inflatable water sports company Wibit Sports helped launch the world famous London Olympic Aquatic Centre to the public. In partnership with The Greenwich Leisure Group, Wibit installed the UK's largest Wibit indoor Aqua course in the Olympic pool with over 40 metres of ramps, jumps, climbing walls, running tracks, flips and jumps. The new course was given a thorough testing by several Olympic stars. The Aquatic Centre holds weekly Wibit fun sessions in the 25m training pools, with kayaks, hurdles and a 'Wiggle Bridge'.



sport-kit.net KEYWORD: YORK

required each month – information that was already within the software system but

had to be pulled out in the format required

by the pension provider. Bond Teamspirit's

system now automatically tracks employee

payments to ensure automatic inclusion.

application is the ability to customise the

One of the central benefits of the

information included on the payslip to

reflect different working processes.

sport-kit.net KEYWORD: BOND

sport-kit.net KEYWORD: WIBIT

Pro Style range is unveiled

York's new commercial Pro Style Dumbbell range is an ergonomically-designed strength and conditioning solution. Also designed for durability, the range features 2.5kg to 65kg sizes, and has saddle rack display options. York's commercial gym equipment is used by sports teams such as the LA Lakers and Washington Redskins in the US, and Northampton Saints, Saracens and Harlequins UK rugby clubs.



Quick out of the Gator

John Deere's latest heavy duty Gator line up features two new four wheel drive models, the XUV 825i and four-passenger XUV 855D S4. The XUV 825i Gator has been designed for drivers needing advanced off-road performance, comfort and the ability to cope with extreme terrain, with extra power and speed. The XUV 825i has an 812cc, three-cylinder, liquid-cooled, dual OHC petrol engine producing 50hp and a top speed of 44mph, plus a 26 litre fuel tank. The XUV 825i Gator is available in the company's traditional green and yellow.

The XUV 855D S4 Gator utility vehicle combines versatile off-road performance, work capability and comfort for up to four passengers, with the same cargo box, towing and payload capacities as the XUV 825i, and is powered by the 22hp three-cylinder liquid-cooled diesel engine.

sport-kit.net KEYWORD: JOHNDEERE



Notts Sport lays hockey surface

The Deeside Ramblers' first team synthetic turf pitch has had a redesign thanks to Notts Sport, an England Hockey approved supplier. The new sand dressed synthetic grass hockey surface project was extended to include the construction of a new fully floodlit and fenced 36m by 28m practice and warm up area adjacent to the new pitch. Notts Sport recycled the original shockpad from the main pitch onto the practice area, saving the club money. The surface choice, manufactured by Domo Sports Grass, is coupled with a high quality foam shockpad, manufactured by Trocellen.



sport-kit.net KEYWORD: NOTTS



Nova International signs Puma

Puma has become the official sportswear and merchandise supplier for Nova International's Great Run Series after the two companies signed a partnership deal. The sports company wants to enhance its athletics business in the UK, and will open an online store on the Great Run Series website selling apparel and footwear.

sport-kit.net KEYWORD: PUMA



Building for the future

Spatial Structures, the manufacturer and builder of steel framed membrane-covered buildings, won a contract from UK championship football team Brighton and Hove Albion to build a covered training pitch. The contract is part of a £20m development that includes 13 outdoor pitches at the club's new training site in New Monks Farm, Lancing, West Sussex. The Spatial Structures facility covers 78 by 60 sq m, providing a half-sized pitch for bad weather and night-time training.



It's time to get ripped!

Fitness professionals wanting to integrate the TRX Rip Trainer resistance cord in studio settings can now sign up for an eight-hour education course. It aims to provide the knowledge to safely use the Rip Trainer resistance cord, modify and progress exercises for members, and teach classes. By learning Group Rip Training fundamentals and two results-driven workouts, fitness professionals will be able to roll out Group Rip Training in their studios. Completing the course provides 8 REPs Credits.



sport-kit.net KEYWORD: O'BRIEN

O'Brien installs sports pitch

Sports contractor O'Brien has designed and installed a new pitch at St Finbarr's Sports Club in Coventry, UK. As the principal contractor, O'Brien designed and constructed the 3G sports pitch, which involved lighting as well as earthworks drainage, sub base, fencing and surfacing for the sports club. It is situated in a residential area, so floodlighting was sympathetically designed to reduce the impact on local residents.

Mark Harrod hits decade as new base highlights growth

Mark Harrod Ltd is celebrating its tenth anniversary in 2014, with its new 5,000 sq ft bespoke premises allowing it to expand its netting department, employ more staff and significantly increase the number of goals it can manufacture.

A new shop area means customers can visit to purchase smaller items such as training accessories and line marker paint, as well as speak directly to the experts.

The company also released its biggest ever catalogue – a glossy 136 pages show-casing everything it supplies.



sport-kit.net KEYWORD: MARKHARROD

sport-kit.net KEYWORD: TRX

Cap2's CoursePro software introduced by leisure trust

Leisure trust GLL has launched new software to simplify the management of the 68,000 people taking part in lessons and courses across its 115 centres.

CoursePro, devised by Cap2 Solutions, was originally designed to support swimschools and has been endorsed by the ASA, but now the programme management software is being used by leisure companies to administer a wide range of activities. CoursePro removes paperwork processes from teachers and coaches, who log activity in real-time using an iPod.

The software enables fast and accurate administration, course co-ordination, up to date reporting and parental interaction via a HomePortal, where customers can view teacher feedback, re-enrol and even pay for future lessons.

sport-kit.net KEYWORD: CAP2



Philips provides blaze of glory

The new Ghelamco Arena in Gent, home to football team KAA Gen, opened in a blaze of glory, thanks to Philips Lighting. The stadium boasts a media facade on all four sides and an exterior architectural lighting scheme supplied by Philips Lighting.

The facade is built from around nine kilometres (five miles) of Philips CK iColor Flex LMX – flexible strands of intense colour changing LED pixels, placed in vertical lines all around the building. Sixty-four Philips CK eW Graze Powercore LED strips are incorporated into the design.

All of these lighting fixtures have been pixel mapped to allow video content to be run through them, as well as onto the media facade, allowing lighting to be matched to the current video content on display, producing various colour glows and other subtle but sympathetic effects.

sport-kit.net KEYWORD: PHILIPS

Flooring brought back to life

The wooden flooring at the Rotunda Boxing Academy in Liverpool has been restored with Granwax products. Heavy and consistent use had caused the floor at the Rotunda to become worn and uneven. Traditional Flooring UK used Granwax products to restore the floors, applying Granguard, a specialist finish for use in areas of heavy use, and completing court markings using Granpaint lining paint.





sport-kit.net KEYWORD: GRANWAX

Tough but soft Wall Ball is added to Physical's range

Physical Company has added the Wall Ball to its range of functional kit. Larger than an average medicine ball, the Wall Ball is just as tough but slightly softer, making it perfect for throwing and catching-based exercises. Wall Balls are most commonly used in the CrossFit exercise known as 'Karen' – a squat-throw and catch combination performed continuously. Operators can now bring the essence of CrossFit to the gym floor and enhance the functional training experience for members, with the balls available in 10 sizes, from 1kg–10kg.



sport-kit.net KEYWORD: PHYSICAL



Sport come rain or shine

Collinson has installed a MugaCova to improve the sports facilities for pupils of SFX College in Liverpool, UK.

The MugaCova – a multi use games area – can host a variety of sports whatever the weather. It consists of a steel-framed superstructure protected by a tensile membrane on the roof only, leaving the sides uncovered for sheltering outdoor games areas such as tennis or basketball courts. At 32m by 21m, two classes can use the facility simultaneously by using the dividing wall.

sport-kit.net KEYWORD: COLLINSON



New pitch delights pupils

Thornton Sports completed a new 3G sports pitch facility for an academy school in Lancashire, UK. The surface chosen for Bishop Rawstorne C of E Academy in Croston was Thornton Sports' UK manufactured Soccer-Turf 40M 3rd generation sand/rubber filled synthetic grass. Ideal for football and hockey use, the size of the existing pitch was also increased to provide a new, larger facility. The full-size pitch was then enclosed with new perimeter fencing and floodlighting.

sport-kit.net KEYWORD: THORNTON

GRAVITY Training proves popular at Everyone Active

Leisure centre operator Everyone Active has embraced GRAVITY training with more than one third of its centres in the South East region now offering classes to members.

Three more centres – Watford Leisure Centre Woodside, Southall Sports Centre and Harrow Leisure Centre – have installed Total Gym machines and will be offering a range of GRAVITY classes.

Beneficial for exercisers of all abilities, the sessions can be offered on the Total Gym equipment in a GroupX, small group, team training or a PT environment.



sport-kit.net KEYWORD: GRAVITY



sport-kit.net KEYWORD: SPORTSEQUIP

For healthy and happy trails

Many leisure facilities are looking for ways to make more of their outside space. One way of achieving this is by installing a fitness or trim trail, an increasingly popular way of combining fresh air with a workout. Robert Boyd, of sportsequip.co.uk, says his company has been involved in setting up dozens of fitness trails in the UK. One of the most recent ones (pictured) is Reynolds Retreat, a new fitness spa in Kent.

Seasonal airdome proves a success at Essex tennis club

A Covair Structures single skin seasonal airdome has enjoyed a successful first term at Billericay Lawn Tennis Club in Essex – despite weather-related near disaster.

The inflatable building provides covered play on three artificial clay courts, ensuring that the club can continue coaching and competitions even in bad weather. Installed on 24 September 2013, the structure had its first major test a month later, on 27 October, when gale force winds hit the south of England. Despite moving around, the dome survived the storm and escaped being hit by a felled tree that landed on the surround fencing. At the end of March, the dome was then dismantled for the summer months, taking four workers just three and a half hours. It was rolled on a trolley into a specially-constructed steel storage shed.

sport-kit.net KEYWORD: COVAIR



Coconut water drinks take off

A popular American coconut water rehydration drink is being launched in the UK.

Coco5 has been developed by a team of US sports medicine and nutrition experts and naturally contains a balance of five electrolytes that the body loses during exercise. Steve Barton, former director of wine company Brand Phoenix, has set up Innovation Drinks, under which the Coco5 brand is being traded. An international roll-out is also being implemented, with the drink initially being launched in six additional markets, including Australia, United Arab Emirates, Sweden, Norway and Ireland. The drink is made with no artificial flavours, sweeteners or colours and contains just 80 calories per 473ml bottle. It is available in six flavours – natural coconut, tropical passion, lemon, cherry crush, citrus splash and pineapple.

sport-kit.net KEYWORD: INNOVATION



The secret weapons of training

A high-quality and portable personal care brand for active people has been launched.

Secret Training has been created by Tim Lawson – a European Champion track cyclist and the founder of nutrition brand Science in Sport (SiS).

The Secret Training 'Strip' range is intended to combat the germs – and potential subsequent illness – created by typical training sessions, which by their very nature can become unhygienic and unhealthy. The range includes sunscreen, anti-friction cream, hand sanitizer and post-race wash among others.



sport-kit.net KEYWORD: SECRET



Athletics surface is installed

Polytan installed its modern Polytan M athletics surface at the O2 World at Ostbahnhof, Berlin, for the first indoor Internationale Stadionfest Berlin (ISTAF). The event was held in March, and featured a host of top international athletes. As a partner of ISTAF Indoor, Polytan also installed a mobile Hertha Blue 85-metre sprint track.

sport-kit.net KEYWORD: POLYTAN



Replay advises FA groups

Replay Maintenance is helping five County Football Associations in the East Midlands keep their synthetic turf in tip top condition. It is providing maintenance education to the Derbyshire, Nottinghamshire, Leicestershire, Lincolnshire and Northamptonshire associations. The education programme has been developed with machinery specialists Redexim Charterhouse, and delivers training and advice to sports facilities owners on how to look after artificial sport surfaces.

sport-kit.net KEYWORD: REPLAY



Lock and load with Ojmar

Ojmar has installed its new white OCS Touch Lock at Cambridge University's £16m (18.8m, \$24.6m) Sports Centre. The lock is used alongside Ojmar's OTS transponder system to let sports students and athletes secure their belongings without needing to carry keys with them. It has an auto-opening function. The OCS Touch Lock can be used for security in a variety of areas. It is also used at Lords Cricket ground in the executive boxes to secure alcoholic drinks following matches.



sport-kit.net KEYWORD: GLADSTONE

Mobile floodlights for outdoor training launched by Ritelite

Ritelite Systems, a manufacturer of portable lighting products, has launched its new mobile sports lighting system on wheels for outdoor training during winter months. Already being used by football clubs, including Sheffield United, the unit is a high-power mobile outdoor floodlighting system, specifically designed for sports including football, rugby and tennis. Two Quad pod models are available at 5m high and 6.5m, with a choice of metal halide or LED fittings. The units can be powered by mains electricity or generator.

Rewarding physical activity

Gladstone Health & Leisure has partnered with Bounts – a fitness app that motivates and rewards people for being active. All leisure operators using the Gladstone Plus2 system will now be able to activate the rewards app, opening it up to more than 3,000,000 Gladstone members. The app allows users to collect and redeem points – or 'bounts' – against national brands and local retail outlets and services.



sport-kit.net KEYWORD: RITELITE

sport-kit.net KEYWORD: OJMAR

Shirt allows fans to feel the same sensations as athletes

A progressive shirt has been developed enabling fans to experience the same sensory sensations as athletes in real-time during games and contests.

The Alert Shirt has been designed by socially-driven technology company Wearable Experiments (We:eX) for Australian television company Foxtel. We:eX has merged hardware, software and apparel design for the Alert Shirt, with the product bringing together these elements with real-time sports data, which is transmitted via a Bluetooth smartphone app to a set of electronics embedded within the jersey.

The Alert Shirt converts the data into powerful sensations that simulate live sports action, allowing fans to gain a sensual experience based on what is happening when athletes participate in events.

sport-kit.net KEYWORD: WEARABLE



Car park fully transformed

ETC Sports Surfaces has transformed a muddy Essex car park into a multi-use games area for schoolchildren. The facility at the Children's Support Services Heybridge Centre is intended to give youngsters a facility to play football, tennis and basketball. The Heybridge Centre offers a wide range of services for secondary school children who have learning and behavioural difficulties. Funding from Essex County

Council enabled the improvements, giving the children the chance to play sports in a safe, enclosed all weather surface area outside. ETC Sports Surfaces constructed a Porous Macadam Multi-Use Games Area. designed for five-a-side football with two goal recesses built in. A basketball post and backboard were integrated into the sports fencing, with a double wire panel fencing system supplied by Zaun Fencing.

sport-kit.net KEYWORD: ETC SPORTS

The Jordan Training Academy has launched five courses designed to bridge the gap between medical and alternative healthcare intervention and the prevention of injury, by teaching healthcare and fitness professionals to identify, assess and train distinctive functional imbalances. The Functional Rehabilitative Training courses must be taken in order and follow on from



sport-kit.net KEYWORD: JORDAN

each other sequentially.

Lighter weight central to Charterhouse turf range

Charterhouse Turf Machinery has introduced lighter weight machines. The Redexim Verti-Drain 1517 is part of the high speed 15 series that feature lighter weight machines, while the Verti-Drain is suitable for use with a tractor with as little as 28 horsepower and weighs 520kg, offering a 1.76m working width together with a depth of up to 150mm (6in). The new Redexim Verti-Top 1200 for synthetic turf maintenance weighs just 360kg, and is designed for more confined spaces and has a 1.2m working width.



sport-kit.net KEYWORD: CHARTERHOUSE





All on track at Barbarossa

Berleburger Schaumstoffwerk installed a new track as part of the renovation of Barbarossa Hall in Germany. The Regupol AG athletics flooring by BSW will let track and field athletes use the renovated site in Kaiserslautern in Rheinland-Pfalz. In addition to a playing field, Barbarossa Hall has been fitted with a 165-metre running track, a 50-metre sprinting track, a long jump pit and seating. The hall, built in the mid-1970s, was completely renovated at a cost of EUR7.35m.

sport-kit.net KEYWORD: BSW

SPORTS FEDERATIONS & ASSOCIATIONS

Your guide to the international federations and organisations for Olympic and non-Olympic international sports and organisers of multi-sports games and other major events

SPORTS FEDERATIONS

AIKIDO

International Aikido Federation (IAF)

4327 51st Street, Boulder, CO 80301, USA Tel: +1720 229 0274 www.aikido-international.org

AIR SPORTS

Federation Aeronautique Internationale (FAI)

Maison du Sport International, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 345 10 70 Email: sec@fai.org www.fai.org

AMERICAN FOOTBALL

International Federation of American Football (IFAF)

79, rue Rateau, 93120 La Courneuve, France Tel: +33 1 43 11 14 70 Email: info@ifaf.org www.ifaf.org

AQUATICS

Federation Internationale De Natation (FINA)

Avenue de l'Avant Poste 4, 1005 Lausanne, Switzerland Tel: +41 21 310 47 10 Email: sportsdep@fina.org www.fina.org

ARCHERY

World Archery Federation (WA)

Maison du Sport International, Av. de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 614 30 50 Email: info@archery.org www.worldarchery.org

ATHLETICS

International Association of Athletics Federations (IAAF)

17, rue Princesse Florestine, BP 359, 98007 Monaco Cedex, Monaco Tel: +37 79 310 88 88 Email: info@iaaf.org www.iaaf.org

BADMINTON

Badminton World Federation (BWF)

22 Jalan Imbi, Amoda Building, Unit 17.05, Level 17, 55100 Kuala Lumpur, Malaysia Tel: +603 2141 7155 Email: bwf@bwfbadminton.org www.bwfbadminton.org

BASEBALL

International Baseball Federation (IBAF)

Avenue de Mon-Repos 24, Case Postale 6099, 1002 Lausanne, Switzerland Tel: +41 21 318 82 40 Email: ibaf@ibaf.org www.ibaf.org

BASKETBALL

Federation Internationale De Basketball (FIBA)

53 Avenue Louis Casaï, PO Box 110, 1216 Cointrin, Switzerland Tel: +41 22 545 00 00 Email: info@fiba.com www.fiba.com

BASQUE PELOTA

Federacion Internacional De Pelota Vasca (FIPV)

C/Bernardino Tirapu n° 67, 31014 Pamplona (Navarra), Spain Tel: +34 94 816 4080 Email: info@fipv.net www.fipv.net

BIATHLON

International Biathlon Union (IBU)

Peregrinstrasse 14, 5020 Salzburg, Austria Tel: +43 662 85 50 50 Email: biathlon@ibu.at www.biathlonworld.com

BILLIARDS SPORTS

World Confederation of Billiard Sports (WCBS)

Kortrijkse Steenweg 205/6, 9830 Sint-Martens-Latem, Belgium Tel: +32 494 77 55 00 Email: wcbs-office@pandora.be www.billiardworld.org

BOBSLEIGH

Federation Internationale De Bobsleigh Et De Tobogganing (FIBT)

Maison du Sport Internationale, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 601 51 01 Email: office@fibt.com www.fibt.com

BOCCE SPORT

Federation International de Boules

Siège de la Fédération, 389 avenue Maréchal de Lattre de Tassigny, 71000 MACON Tel: +33 03 58 19 51 17 Email: see online form at website www.fiboules.org

BODYBUILDING

International Federation of Bodybuilding & Fitness (IFBB)

c/ jaen numéro 8, 28020 Madrid, Spain Tel: +34 91 535 28 19 Email: internacional@santonja.com www.ifbb.com

BOULES SPORT

Confederation Mondiale Des Sports De Boules (CMSB)

Via Vitorchiano 113-115, 00189 Rome, Italy Tel: +39 06 36 85 65 65 Email: presidenza@federbocce.it www.cmsboules.com

BOWLING

Federation Internationale Des Quilleurs (FIQ)

100 Tyrwhitt Road nr.02-05 Jalan Besar, Swimming Complex, 207542 Singapore, Singapore Tel: +65 64 40 73 88 Email: fiq@singaporebowling.org.sg www.fig.org

BOXING

Association Internationale De Boxe (AIBA)

Maison du Sport International, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 321 27 77 Email: info@aiba.org www.aiba.org

BRIDGE

World Bridge Federation (WBF)

Maison du Sport International, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 544 7218 Email: secretariat@worldbridgefed.com www.worldbridge.org

CANOE

International Canoe Federation (ICF)

Maison du Sport International, Av. de la Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 612 02 90 Email: simon.toulson@canoeicf.com www.canoeicf.com

CASTING

International Casting Sport Federation (ICSF)

Novosuchdolska 37, 165 00 Praha 6, Czech Republic Tel: +420 603 418 049 Email: dr.dolezal.crs@volny.cz www.exfi.eu/castingsport-icsf

CAVING

La Fédération Spéléologique Européenne B.P. 3067, L-1030, Luxembourg Email: contact@eurospeleo.org www.eurospeleo.eu

CHEERLEADING

International Federation of Cheerleading

Aoyama Success Building 7th Floor, 2-11-13, Minami-Aoyama, Minatoku, Tokyo 107-0062, JAPAN Tel: +81 3 5770-5747 Email: ifc@ifc-hdqrs.org www.ifc-hdqrs.org

CHESS

Federation Internationale Des Echecs (FIDE)

Syggrou Ave 9, 11743 Athens, Greece Tel: +30 210 921 2047 Email: office@fide.com www.fide.com

CRICKET

International Cricket Council (ICC)

Street 69, Dubai Sports City, Emirates Road, PO Box 500070, Dubai, United Arab Emirates Tel: +971 4 382 8800 Email: haroon.lorgat@icc-cricket.com www.icc-cricket.com

CROQUET

World Croquet Federation

Tel: +44 (0)1242 242318 Email: online form www.wcfcroquet.org

CURLING

World Curling Federation (WCF)

74 Tay Street, Perth, PH2 8NP, UK Tel: +44 1738 451 630 Email: info@worldcurling.org www.worldcurling.org

CYCLING

Union Cycliste Internationale (UCI)

Centre Mondial du Cyclisme, Chemin de la Mêlée 12, 1860 Aigle, Switzerland Tel: +41 24 468 58 11 Email: admin@uci.ch www.uci.ch

DANCE SPORT

World Dance Sport Federation (WDSF)

C. Orient 78-84, Floor 1, Office 14, 08172 Sant Cugat del Valles, Barcelona, Spain Tel: +34 935 44 23 92 Email: office@idsfspain.com www.worlddancesport.org

DARTS

World Darts Federation (WDF)

Vestmarkveien 14, 3271 Larvik, Norway Tel: +47 331 14 301 Email: president@dartswdf.com www.dartswdf.com

DRAGON BOAT

International Dragon Boat Federation (IDBF)

Secretariat c/o CDBA, No. 9 Tiyuguan Road, Beijing 100763, China Tel: +86 10 6712 8832 Email: idbfdragon@126.com www.idbf.org

DRAUGHTS

Federation Mondiale Du Jeu De Dames (FMJD)

Orteliusstr. 147 hs, 1057 AX Amsterdam, the Netherlands Tel: +31 20 616 7402 Email: fmjd.office@worldonline.nl www.fmjd.org

EQUESTRIAN SPORTS

Federation Equestre Internationale (FEI)

HM King Hussein I Building, Chemin des Délices 9, 1006 Lausanne, Switzerland Tel: +41 21 310 47 47 Email: info@fei.org www.fei.org

FENCING

Federation Internationale D'Escrime (FIE)

Maison du Sport International, Av. de la Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 320 31 15 Email: info@fie.ch www.fie.org

FISTBALL

International Fistball Association (IFA)

Amselweg 11a, CH-3073, Gümligen, Switzerland Tel: +41 31 951 54 38 Email: office@ifa-fistball.com www.ifa-fistball.com

FLOORBALL

International Floorball Federation (IFF) Alakiventie 2, 00920 Helsini, Finland

Tel: +358 9 454 214 25 Email: office@floorball.org www.floorball.org

FLYING DISC

World Flying Disc Federation (WFDF) Neckarstrasse 11, 55296 Harxheim, Germany Tel: +49 6138 90 20 868 Email: disc@wfdf.org www.wfdf.org

FOOSBALL/TABLE FOOTBALL

International Table Soccer Federation

ITSF 3, rue de Clermont, 44 000, Nantes, France Tel: +33 (0)2 40 47 90 84 Email: info@table-soccer.org www.table-soccer.org

FOOTBALL

Federation Internationale De Football Association (FIFA) FIFA-Strasse 20, PO Box

8044, Zurich, Switzerland Tel: +41 43 222 77 77 Email: contact@fifa.org www.fifa.com

GO

International Go Federation (IGF)

c/o the Nihon Ki-in, 7-2, Gobancho, Chiyoda-ku, 102-0076 Tokyo, Japan Tel: +81 3 3288 8727 Email: igf@nihonkiin.or.jp http://intergofed.org

GOLF

International Golf Federation (IGF)

Maison Du Sport International, Avenue de Rhodanie 54, CH-1007 Lausanne, Switzerland Tel: +41 21 623 12 12 Email: info@igfmail.com www.igfgolf.org

GYMNASTICS

Federation Internationale De Gymnastique (FIG)

Avenue de la Gare 12, Case postale 630, 1001 Lausanne, Switzerland Tel: +41 21 321 55 10 Email: info@fig-gymnastics.org www.fig-gymnastics.com

HANDBALL

International Handball Federation (IHF)

Peter Merian-Strasse 23, 4002 Basel, Switzerland Tel: +41 61 228 90 40 Email: ihf.office@ihf.info www.ihf.info

HOCKEY

Federation Internationale De Hockey (FIH)

Rue du Valentin 61, 1004 Lausanne, Switzerland Tel: +41 21 641 06 06 Email: info@worldhockey.org www.worldhockey.org

ICE HOCKEY

International Ice Hockey Federation (IIHF)

Brandschenkestrasse 50, Postfach 1817, 8027 Zurich, Switzerland Tel: +41 44 562 22 20 Email: office@iihf.com www.iihf.com

ICESTOCKSPORT

International Federation Icestocksport (IFI)

Käthe-Kollwitz-Str. 23, Postfach 24 06 31, D-68169 Mannheim, Germany Tel: +49 621 30 68 68 6 Email: info@eisstock.org www.eisstock.org

JU-JITSU

Ju-Jitsu International Federation (JJIF)

17 Mila Rodina St., Sofia 1408, Bulgaria Tel: +359 2 958 2829 Email: ju_jitsu@abv.bg www.jjif.info

JUDO

International Judo Federation (IJF)

Roosevelt ter 2, 1051 Budapest, Hungary Tel: +36 1 302 72 70 Email: president@ijf.org www.intjudo.eu

KARATE

World Karate Federation (WKF)

WKF Headquarters, Galleria de Vallehermoso 4, 3rd floor, 28003 Madrid, Spain Tel: +34 91 535 9632 Email: wkf@wkf.com.es www.wkf.net

KENDO

International Kendo Federation (FIK)

2nd Floor, Yasukuni Kudan Minami Bldg., 2-3-14 Kudan Minami, Chiyodaku, 102-0074 Tokyo, Japan Tel: +81 3 3234 6271 Email: kendo-fik@kendo.or.jp www.kendo-fik.org

KICKBOXING

World Association of Kickboxing Organizations (WAKO)

Via A. Manzoni 18, 20052 Monza (Milan), Italy Tel: +39 03 93 21 804 Email: falsoni@wakoweb.com www.wakoweb.com

KORFBALL

International Korfball Federation (IKF)

PO Box 417, 3700 AK Zeist, the Netherlands Tel: +31 34 3 49 96 55 Email: office@ikf.org www.ikf.org

LACROSSE

Federation of International Lacrosse (FILx)

3 Concorde Gate , Suite 306, Ontario, M3C 3N7, Canada Tel: +1 416 426 7070 Email: info@filacrosse.com www.filacrosse.com

LIFE SAVING

International Life Saving Federation (ILS)

Gemeenteplein 26, 3010 Leuven, Belgium Tel: +32 16 89 60 60 Email: ils.hq@telenet.be www.ilsf.org

LUGE

Federation Internationale De Luge De Course (FIL)

Rathausplatz 9, 83471, Berchtesgaden, Germany Tel: +49 8652 669 60 Email: office@fil-luge.org www.fil-luge.org

MINIGOLF

World Minigolfsport Federation (WMF)

c/o Dr. Roger Cadosch, Steinerstrasse 17, 3006 Bern, Switzerland Tel: +41 31 329 29 00 Email: info@minigolfsport.com www.minigolfsport.com

MODERN PENTATHLON

Union Internationale De

Pentathlon Moderne (UIPM)

Stade Louis II - Entrance E, 13 avenue des Castelans, 98000 Monaco, Monaco Tel: +377 9777 85 55 Email: uipm@pentathlon.org www.pentathlon.org

MOTORCYCLING

Federation Internationale De Motocyclisme (FIM) 11, route Suisse, 1295 Mies, Switzerland Tel: +41 22 950 95 00 Email: info@fim-live.com www.fim-live.com

MOUNTAINEERING

Union Internationale Des Assoc. D'Alpinisme (UIAA) Monbijoustrasse 61, Postfach, 3000 Bern 23, Switzerland Tel: +41 31 370 18 28 Email: office@theuiaa.org www.theuiaa.org

MUAYTHAI

International Federation of Muaythai Amateur (IFMA)

1029 Navamin 14, Navamin Rd, Klongjan, Bangkapi, Bangkok 10240, Thailand Tel: +66 2 661 62 63 Email: ifmainternational@hotmail.com www.ifmamuaythai.org

NETBALL

International Netball Federation (INF)

Albion Wharf, 19 Albion Street, Manchester, M1 5LN, UK Tel: +44 161 234 6515 Email: info@netball.org www.netball.org

ORIENTEERING

International Orienteering Federation (IOF)

Radiokatu 20, 00093 Slu, Finland Tel: +358 9 3481 3112 Email: iof@orienteering.org www.orienteering.org

POLO

Federation of International Polo (FIP)

205 Lambert Road, Carpinteria, CA 93013, USA Tel: +1 805 695 0142 Email: fippolo1@msn.com www.fippolo.com

POWERBOATING

Union Internationale Motonautique (UIM)

Stade Louis II - Entrée H, 1 Avenue des Castelans, 98000 Monaco, Monaco Tel: +377 92 05 25 22 Email: uim@uimpowerboating.com www.uimpowerboating.com

POWERLIFTING

International Powerlifting Federation (IPF) c/o Detlev Albrings, Lerchenauer Str. 124a, 80809 Munich, Germany Tel: +49 89 3513 916 Email: detlev.albrings@powerlifting-ipf.com www.powerlifting-ipf.com

RACQUETBALL

International Racquetball Federation (IRF) 1631 Mesa Avenue, Colorado Springs, CO 80906, USA Tel: +1 719 477 6934 Email: Istonge@internationalracquetball.com www.internationalracquetball.com

ROLLER SPORTS

Federation Internationale De Roller Sports (FIRS)

Viale Tiziano, 74, 00196 Rome, Italy Tel: +39 06 36 85 85 43 Email: info@rollersports.org www.rollersports.org

ROWING

Federation Internationale Des Societes D'Aviron (FISA)

Maison du Sport International, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 617 83 73 Email: info@fisa.org www.worldrowing.com

RUGBY

International Rugby Board (IRB)

Huguenot House, 35-38 St. Stephen's Green, Dublin, Ireland Tel: +353 1 240 92 00 Email: david.carrigy@irb.com www.irb.com

SAILING

International Sailing Federation (ISAF)

Ariadne House, Town Quay, Southampton, SO14 2AQ, UK Tel: +44 (0)2380 635 111 Email: secretariat@isaf.co.uk www.sailing.org

SAMBO

Federation Internationale Amateur De Sambo (FIAS)

236A, 8, Luzhnetskaya nab, 119992 Moscow, Russian Federation Tel: +7 925 999 2109 Email: info@sambo.com www.sambo-fias.org

SAVATE

Federation Internationale De Savate (FISav) 18 rue Bernard Dimey, Paris, France

Tel: +33 1 42 63 11 23 Email: fisavate@gmail.com http://fisavate.org

SEPAKTAKRAW

International Sepaktakraw Federation (ISTAF) No.7 Bedok North Street 2, Singapore 469646, Singapore Tel: +65 6449 8963 Email: eo@perses.org www.sepaktakraw.org

SHOOTING SPORT

International Shooting Sport Federation (ISSF)

Bavariaring 21, 80336 München, Germany Tel: +49 89 54 43 55 0 Email: munich@issf-sports.org www.issf-sports.org

SKATING

International Skating Union (ISU)

Chemin de Primerose 2, 1007 Lausanne, Switzerland Tel: +41 21 612 66 66 Email: info@isu.ch www.isu.org

SKI MOUNTAINEERING

International Ski Mountaineering Federation (ISMF)

Case Postale 7127, Rue Caroline 7, CH 1002 Lausanne, Switzerland Tel: +39 0174 554 755 Email: office@ismf-ski.org www.ismf-ski.org

SKIING

Federation Internationale De Ski (FIS)

Blochstrasse 2, 3653 Oberhofen am Thunersee, Switzerland Tel: +41 33 244 61 61 Email: mail@fisski.com www.fis-ski.com

SLEDDOG

International Federation of Sleddog Sports (IFSS) 8554 Gateway Circle, Monticello, MN 55362, USA Tel: +1763 295 5465 Email: sbair@tds.net www.sleddogsport.net

SOFT TENNIS

International Soft Tennis Federation (ISTF)

RM 605, Olympic Center 88, Oryun-dong, Songpa-gu, Seoul 135-090, South Korea Tel: +82 2 420 4057 8 Email: ktj2020@naver.com www.softtennis-istf.org

SOFTBALL

International Softball Federation (ISF)

1900 S. Park Road, Plant City, FL 33536, USA Tel: +1 813 864 0100 Email: info@ISFsoftball.org www.isfsoftball.org

SPORT CLIMBING

International Federation of Sport Climbing (IFSC)

Corso Ferucci 122, 10141 Torino, Italy Tel: +39 01 13 85 39 95 Email: office@ifsc-climbing.org www.ifsc-climbing.org

SPORTS FISHING

Confederation Internationale De La Peche Sportive (CIPS)

Viale Tiziano 70, 00196 Rome, Italy Tel: +39 06 36 85 82 39 Email: segreteriainternazionale@fipsas.it www.cips-fips.com

SQUASH

World Squash Federation (WSF)

25 Russell Street, Hastings, TN34 1QU, UK Tel: +44 (0)1424 447 440 Email: wsf@worldsquash.org www.worldsquash.org

SUMO

International Sumo Federation (IFS)

1-15-20 Hyakunincho, Shinjukuku, 169-0073 Tokyo, Japan Tel: +81 3 3360 3911 Email: ifs2@nifty.com www.ifs-sumo.org

SURFING

International Surfing Association (ISA)

5580 La Jolla Boulevard, Suite 145, La Jolla, CA 92037, USA Tel: +1 858 551 8580 Email: surf@isasurf.org www.isasurf.org

TABLE TENNIS

International Table Tennis Federation (ITTF)

Chemin de la Roche 11, 1020 Renens, Switzerland Tel: +41 21 340 70 90 Email: ittf@ittf.com www.ittf.com

TAEKWONDO

World Taekwondo Federation (WTF)

4th Floor, JoYang Building, 113 Samseong-dong, Gangnam-gu, Seoul 135-090, South Korea Tel: +82 2 556 2505 Email: intl@wtf.org www.wtf.org

TCHOUKBALL

Fédération International de Tchoukball

Kaohsiungshih, Taiwan 82199 Tel: +886 7 697 5784 Email: contactus@tchoukball.org www.tchoukball.org

TENNIS

International Tennis Federation (ITF)

Bank Lane, Roehampton, London, SW15 5XZ, UK Tel: +44 (0)20 8878 6464 Email: communications@itftennis.com www.itftennis.com

TRIATHLON

International Triathlon Union (ITU)

Suite 221, 998 Harbourside Drive, North Vancouver, BC V7P 3T2, Canada Tel: +1 604 904 9248 Email: ituhdq@triathlon.org www.triathlon.org

TUG OF WAR

Tug of War International Federation (TWIF)

PO Box 77, 4742 State Hwy. 213, Orfordville, WI 53576, USA Tel: +1 608 879 2869 Email: twif@t6b.com www.tugofwar-twif.org

UNDERWATER ACTIVITIES

Confederation Mondiale Des Activites Subaguatiques (CMAS)

Viale Tiziano, 74, 00196 Rome, Italy Tel: +39 6 32 44 05 94 Email: cmas@cmas.org www.cmas2000.org

VOLLEYBALL

Federation Internationale De Volleyball (FIVB)

Château les Tourelles, Ch Edouard Sandoz 2-4, 1006 Lausanne, Switzerland Tel: +41 21 345 35 35 Email: info@fivb.org www.fivb.org

WATERSKIING

International Waterski and

Wakeboard Federation (IWWF)

Alte Landestrasse 19, Postbox 564, 6314 Unterägeri, Switzerland Tel: +41 41 752 00 95 Email: iwwf@iwwfed.com www.iwwfed.com

WEIGHTLIFTING

International Weightlifting Federation (IWF)

5th Floor, Istvanmezei ut 1-3, 1146 Budapest, Hungary Tel: +361 353 05 30 Email: iwf@iwfnet.net www.iwf.net

WRESTLING

Federation Internationale Des Luttes Associees (FILA)

Rue du Château, 6, 1804 Corsier-sur-Vevey, Switzerland Tel: +41 21 312 84 26 Email: fila@fila-wrestling.com www.fila-wrestling.com

WUSHU

International Wushu Federation (IWUF)

3 Anding Road, Chaoyang District, 100029 Beijing, China Tel: +86 10 6491 21 53 Email: iwuf@iwuf.org www.iwuf.org

SPORTS ASSOCIATIONS

SPORTS ASSOCIATIONS

COMMONWEALTH GAMES

Commonwealth Games Federation (CGF)

2nd Floor, 138 Piccadilly, London, W1J 7NR, UK Tel: +44 (0)20 7491 8801 Email: info@thecgf.com www.thecqf.com

DEAF SPORTS

International Committee of Sports for the Deaf (CISS)

528 Trail Avenue, Frederick, MD 21701, USA Tel: +1 866 955 15 41 Email: info@ciss.org www.deaflympics.com

EUROPEAN BROADCASTING

European Broadcasting Union (EBU/UER)

17A Ancienne Route, Case Postale 67, 1218 Geneva, Switzerland Tel: +41 22 717 21 11 Email: ebu@ebu.ch www.ebu.ch

MASTERS GAMES

International Masters Games Association (IMGA)

Maison du Sport International, Avenue de Rhodanie 54, 1007 Lausanne, Switzerland Tel: +41 21 601 81 71 Email: info@imga.ch www.imga.ch

MEDITERRANEAN GAMES

International Committee of the Mediterranean Games (CIJM)

Athens Olympic Sports Complex (OAKA), Avenue Spirou Loui – Centre Aquatique, 151 23 Maroussi (Athens), Greece Tel: +30 210 68 50 206 Email: info@cijm.org.gr www.cijm.org.gr

MILITARY SPORT

Conseil International Du Sport Militaire (CISM) Rue Jacques Jordaens 26, 1000 Brussels, Belgium Tel: +32 2 647 68 52 Email: cism@cism-milsport.com www.cism-milsport.org

MIND SPORTS

International Mind Sports Association (IMSA)

Avenue de Rhodanie 54, CH-1007 Lausanne, Switzerland Tel: +33 1 53 23 03 15 Email: info@imsaworld.org www.imsaworld.com

PANATHLON

Panathlon International (PI)

Villa Porticciolo, Viale G. Maggio, 6, Casella Postale 217, 16035 Rapallo, Italy Tel: +39 01 85 65 29 5 Email: segretariogenerale@panathlon.net www.panathlon.net

PARALYMPIC

International Paralympic Committee (IPC)

Adenauerallee 212-214, 53113 Bonn, Germany Tel: +49 228 2097 200 Email: info@paralympic.org www.paralympic.org

SCHOOL SPORTS

International School Sport Federation (ISF)

Boomgaardstraat 22 B39, 2600 Berchem-Antwerp, Belgium Tel: +32 3 2860 738 Email: isf@isfsports.org www.isfsports.org

SPECIAL OLYMPICS

Special Olympics, Inc. (SOI) 1133 19th Street, Washington, DC 20036, USA Tel: +1 202 628 3630 Email: info@specialolympics.org www.specialolympics.org

SPORTS CHIROPRACTIC

Federation Internationale De Chiropratique Du Sport (FICS)

MSI Maison du Sport International, Avenue de Rhodanie 54, CH-1007 Lausanne, Switzerland Tel: +41 21 601 08 58 Email: admin@fics-ch.org www.fics-online.org

SPORTS FACILITIES

International Association For Sports And Leisure Facilities (IAKS)

Eupener Straße 70, 50933 Cologne, Germany Tel: +49 221 1680 230 Email: iaks@iaks.info www.iaks.info

UNIVERSITY SPORTS

Federation Internationale Du Sport Universitaire (FISU)

Château de la Solitude, 54 Avenue Charles Schaller, 1160 Brussels, Belgium Tel: +32 2 640 68 73 Email: fisu@fisu.net www.fisu.net

WORKERS & AMATEURS SPORTS

International Workers And Amateurs In Sports Confederation (CSIT)

Steinergasse 12, 1230 Vienna, Austria Tel: +43 1 869 32 45 20 Email: office@csit.tv www.csit.tv/en

WORLD GAMES

International World Games Association (IWGA)

10 Lake Circle, Colorado Springs, CO 80906, USA Tel: +1 719 471 8096 Email: info@worldgames-iwga.org www.theworldgames.org

THE SPORTS AND PLAY CONSTRUCTION ASSOCIATION

BUILDING BETTER SPORTS & PLAY

HOW WE CAN HELP...

- SAPCA runs a programme of Sports Facility Shows across the UK for anyone who is involved in sports or play facility development.
- Helps you to find reputable, top quality suppliers and products.
- Provides expert advice on the technical aspects of sports and play facility construction.
- Ensures contractors perform to the high standards expected of them.

2 3 4 5 6 7 8 9 10

SAPCA is the recognised trade association for the sports and play construction industry in the UK.

Fostering excellence, endorsing professionalism and promoting continuous improvement throughout the industry.

For more about SAPCA, its services or to enquire about membership, visit the website **www.sapca.org.uk**, call us on **024 76416316**, or email **info@sapca.org.uk**.

The Sports and Play Construction Association, Federation House, Stoneleigh Park, Warwickshire CV8 2RF

www.sapca.org.uk

INDUSTRY ASSOCIATIONS

African Sport Management Association (ASMA)

PO Box 43844, 00100, Nairobi, Kenya



Tel: +254 20 871 0901 Email: info@asma-online.org www.asma-online.org

The African Sport Management Association (ASMA) was founded in 2010, during the 17th Biennial International Conference of the International Society for Comparative Physical Education and Sport held at Kenyatta University in Nairobi, Kenya, Africa.

The decision to establish ASMA was unanimously agreed upon by the delegates as one of the resolutions of the Biennial International Conference.

ASMA's vision is to be a renowned African forum for the promotion of educational and professional sport management as well as in the management of sport-related disciplines within as well as beyond the African continent.

The assocation's mission is to strengthen sport management in Africa as an academic and professional engagement. ASMA also aims to become a vital contributor to the continent's global social-economic development.

Chartered Institute for the Management of Sport and Physical Activity (CIMSPA)

SportPark, Loughborough University, 3 Oakwood Drive, Loughborough, LE11 3QF, UK



Tel: +44 (0)1509 226 474 Email: info@cimspa.co.uk www.cimspa.co.uk

CIMSPA launched in 2012, following the award of a Royal Charter in late 2011, before which it operated as IMSPA. IMSPA was formed in April 2011 through a merger between the Institute for Sport and Recreation Management and the Institute for Sport, Parks and Leisure.

The institute aims to develop a vibrant, UK-wide sport and physical activity sector, led by professionals providing advocacy and leadership and working in partnership with its stakeholders to help ensure the highest standards of service delivery.

CIMSPA produces information on the latest health and safety issues, personnel management updates, sport and physical activity strategies, as well as government initiatives.

Its Continuing Professional Development portfolio ensures that key skills and knowledge necessary for a wide range of sport and physical activity professions, ranging from managerial to developmental, and technical to operational, are developed.

Club Managers Association of Europe (CMAE)

Federation House, Stoneleigh Park, CV8 2RF, UK



Tel: +44 (0)247 669 2359 Email: jerry.kilby@cmaeurope.eu www.cmaeurope.org

CMAE is a non-profit making professional association with members involved in the management of sports clubs (golf, tennis, sailing, rowing, rugby, football and cricket), health and fitness clubs, leisure, city and dining clubs located throughout Europe.

The Club Managers Association of Europe aims to promote best practices in products, services and innovative programmes for the successful management of clubs throughout Europe.

It provides and promotes educational events to meet diverse needs and provides members with networking opportunities, assistance with career development, employment opportunities and recruitment. Members are also rewarded with an internationally recognised certificate in club management.

CMAE also reports on changing social, governmental, environmental and economic issues affecting club managers, while researching, developing, analysing and disseminating information and data related to club management and the club industry.

European Stadium & Safety Management Association (ESSMA)

Rapertingenstraat 109, 3500 Hasselt, Belgium



Tel: +32 486 72 31 89 Email: dimitri@essma.eu www.essma.eu

ESSMA was launched in 1995 by Lionel Dreksler, the former stadium director of Parc Des Prince in Paris. It incorporates head groundsmen and represents 300 people involved in the stadium industry. Its aim is to share know-how and expertise through its activities.

ESSMA collects technical information for operations and safety management throughout Europe to enhance industry awareness of the latest techniques and developments in niche markets related to the organisation of stadiums.

The association's vision is to be the leading European platform for stadium management networking on a global scale. By acquiring sustainable know-how via a combination of stadium and safety management and qualitative industry partners, ESSMA aims to offer added value by sharing know-how and expertise with its members and consequently bring stadiums to a higher level from conception to operation.

In 2008, John Beattie, stadium director of Emirates Stadium in London, was appointed as the new president.

The Federation of Sports and Play Associations (FSPA)

Federation House, Stoneleigh Park, CV8 2RF, UK



Tel: +44 (0)2476 414 999 Email: info@sportsandplay.com www.sportsandplay.com

The Federation of Sports and Play Associations was formed in 1919 and formally incorporated in 1926 as the national trade body responsible for representing 18 associations and 600 member companies in the sports and play industries.

The federation has a long history of serving the industry, and in 2009 FSPA celebrated its 90th anniversary.

As the voice of the industry, the association is ideally positioned at the very heart of the trade. On behalf of its members, it has strategic partnerships with Sport & Recreation Alliance (formerly CCPR), Youth Sport Trust and Sport England, as well as open dialogue with the Culture Media and Sport and the Business, Innovation and Skills government departments.

In 2009/10, the federation forged a new and exciting partnership with the County Sports Partnership Network, providing members with opportunities to work with Sport England's vital County Sports Partnerships.

International Association for Sports and Leisure Facilities (IAKS)

Eupener Strasse 70, 50933 Cologne, Germany



Tel: +49 (0)221 1680 23 0 Email: iaks@iaks.info www.iaks.info

IAKS is the International Association for Sports and Leisure Facilities. This non-profit organisation was founded in Cologne, Germany, in 1965 and represents 1,000 members in 110 countries.

IAKS' membership base comprises a global network for the design, construction, modernisation and management of sports and leisure facilities. These members benefit from the association's international outlook, worldwide exchange of experience and services.

Its goal is to create high-grade, functional and sustainable sports facilities worldwide, with an emphasis on international exchange and the ongoing development of quality standards.

The International Association for Sports and Leisure Facilities contributes to the economic and environmentally friendly realisation of sports and leisure facility projects worldwide. It thereby highlights the right of citizens to demand-driven and functional sports facilities.

INDUSTRY ASSOCIATIONS

Institute of Groundsmanship (IOG)

28 Stratford Office Village, Walker Avenue, Wolverton Mill East, Milton Keynes, MK12 5TW, UK



Tel: +44 (0)1908 312 511 Email: iog@iog.org www.iog.org

The Institute of Groundsmanship is a membership organisation representing the UK's grounds care industry and all those involved in it. It aims to promote quality surfaces and services and establish itself as the leading professional organisation for grounds management.

IOG is recognised by the national governing bodies of sport and the public, private and voluntary sectors for its industry knowledge and technical expertise. The institute aims to develop sport and sporting surfaces in the UK and Ireland, develop training courses and ensure that recognition of the profession and the need for quality standards is at the top of the agenda.

The institute also delivers a range of local, regional and national events, including seminars, conferences and awards programmes, in conjunction with leading representatives from all facets of the industry.

In addition, the IOG runs two leading annual trade industry exhibitions – IOG SALTEX at Windsor Racecourse in the UK, and IOG Scotsturf.

The International Sport and Culture Association (ISCA)

Tietgensgade 65, 1704 Copenhagen V, Denmark



Tel: +45 (0) 33 29 80 26 Email: info@isca-web.org www.isca-web.org

The International Sport and Culture Association (ISCA) was created in 1995 as a global platform for all organisations within the field of sport for all, recreational sports and physical activity.

ISCA is a global actor closely cooperating with its 130 member organisations, international NGOs, and public and private sector stakeholders.

Its 40 million individual members from 65 countries represent a diverse group of people active within youth, sport and cultural activities.

ISCA was created in 1995 with the purpose of supporting cross-border understanding through sport and culture; promoting sport as a bearer of cultural identity; and encouraging the broadest possible participation in sports and cultural activities for affiliated members.

International Health, Racquet and Sportsclub Association (IHRSA)

Seaport Center, 70 Fargo Street, Boston, MA 02210, USA



Tel: +1 617 951 0055 Email: intl@ihrsa.org www.ihrsa.org

IHRSA is the fitness industry's only global trade association – a not-for-profit organisation representing health and fitness facilities, gyms, spas, sports clubs and suppliers worldwide. It represents over 10,000 for-profit health and fitness facilities and 600 suppliers.

The association's mission is to grow, protect and promote the health and fitness club industry, and to provide its members with benefits that will help them to be more successful.

IHRSA fulfills this mission by implementing annual health promotion initiatives, defending and promoting health club-related legislation, hosting industry events and also by collecting key operational data for its publications and newsletters.

The fitness industry is poised to step up as a solution to the growing public health crisis of obesity and overweight. IHRSA represents and supports this goal through outreach and programmes which help to promote healthy and active lifestyles.

INDUSTRY ASSOCIATIONS

New Zealand Sports Industry Association (NZSIA)

PO Box 41076, Auckland, New Zealand



Tel: +64 9 845 3550 Email: nzsia@retail.org.nz www.nzsia.co.nz

The New Zealand Sports Industry Association was formed in 1987 by merging the NZ Sports Dealers Federation and the NZ Sports Goods Industries Association into one organisation: NZSIA.

NZSIA is a trade membership association comprised of suppliers and dealers with the aim of strengthening and integrating the activities of members involved in the sports industry.

Its objectives include promoting the sale of sporting leisure and recreational equipment and services to consumers through the member chain of supply; encouraging New Zealanders to take a more active part in sport and recreation; educating and assisting members to operate effective, profitable and successful businesses; influencing government and other legislative bodies on issues in the best interests of the industry; developing and maintaining benefits and services for all sectors of membership; and maintaining an organisation structure that addresses the expectations and the needs of industry.

The Sports and Play Construction Association (SAPCA)

Federation House, Stoneleigh Park, CV8 2RF, UK

Tel: +44 (0)24 7641 6316

Email: info@sapca.org.uk

www.sapca.org.uk

SAPCA

49-51 East Road, London, N1 6AH,

UK

Sporta



Tel: +44 (0)7767 823 320 Email: info@sporta.org www.sporta.org

Sporta is a national association representing a wide range of leisure and cultural trusts in communities across the UK. Together they provide 30 per cent of public leisure centres in the UK.

The facilities and activities which they deliver in partnership with local authorities support a range of physical activity, sports and community cultural services.

Many facilities are open seven days a week from early in the morning until late at night. The trusts are also committed to being as accessible and affordable as possible for everyone and many operate in deprived communities. They also support public policy objectives, including public health and community cohesion.

Sporta membership is open to non-profit distributing organisations – primarily, but not exclusively, those that manage cultural and leisure facilities.

The network spreads across the whole of the UK, with regular meetings at regional as well as national level.

SAPCA is a recognised trade association for the sports and play construction industry in the UK. It was formed by the industry in 1997 as a non-profit-seeking organisation funded by the industry.

The association's role is to foster excellence, professionalism and continuous improvement throughout the industry to provide the high-quality facilities needed at all levels of sport, physical activity, recreation and play.

Having originally represented primarily specialist sports surfacing contractors, the association has since evolved and expanded to embrace a wide range of disciplines within the sports and play facilities industry.

SAPCA has more than 240 corporate members UK-wide, all with a direct involvement in sports and play facility development. Members include contractors, manufacturers and suppliers, professional consultants and test laboratories, as well as sports governing bodies and related organisations.

360 Architecture

300 West 22nd Street, Kansas City, MO 64108, USA Tel: +1 816 472 3360 Email: info@360architects.com www.360architects.com

3LHD Architects

Nikole Božidarevica 13/4, 10000 Zagreb, Croatia Tel: +385 1 232 0200 Email: info@3lhd.com http://studio3lhd.hr/en

AECOM

MidCity Place, 71 High Holborn, London WC1V 6QS, UK Tel: +44 (0)20 7645 2000 Email: use online form www.aecom.com

Aedas Architects

31/F One Island East, 18 Westlands Road, Quarry Bay, Hong Kong Tel: +852 2861 1728 Email: hongkong@aedas.com www.aedas.com

AFLS+P Architects The Cornerhouse, 91-93 Farringdon Road,

London, EC1M 3LN, UK Tel: +44 20 7831 8877 Email: answers@AFLSP.com www.AFLSP.com

Archer Architects

Suite B4, Mindenhall Court, High Street, Stevenage, Hertfordshire, SG1 3UN Tel: +44 (0)1438 365968 Email: info@archerarchitects.co.uk www.archerarchitects.co.uk

Archial Architecture

Tennyson House, 159-165 Great Portland Street, London, W1W 5PA, UK Tel: +44 (0)20 7580 0400 Email: info@archialgroup.com www.archialgroup.com

Arena Estadios

Rua dos Pinheiros 498, 2 Andar CJ22, CEP 05 422-000, Sao Paulo, Sao Paulo, Brazil Tel: +55 11 3060 4400 Email: contato@arenaestadios.com.br www.arenaestadios.com.br

Arturus Architects

Quayside, 40 Holwell Rd, Bristol BS8 4UQ, UK Tel: +44 (0)117 316 9467 Email: mailbox@arturus.co.uk www.arturus.co.uk

Arup Sport

Central Square, Forth Street, Newcastle Upon Tyne, NE1 3PL, UK Tel: +44 (0)191 261 6080 Email: newcastle@arup.com www.arup.com

Atkins

Euston Tower, 286 Euston Road, London, NW1 3AT, UK Tel: +44 (0)20 7121 2700 Email: info@atkinsglobal.com www.atkinsglobal.com

B3 Architects

Audley House, Berechurch Hall Road, Colchester, CO2 9NW, UK Tel: +44 (0)1206 562 946 Email: architects@b3-architects.co.uk http://b3-architects.co.uk

BH&M Architects

1 White Hart Lane, Barnes, London, SW13 ORA, UK Tel: +44 (0)20 8878 4667 Email: info@bhmarchitects.com www.bhmarchitects.com

Bignell Shacklady Ewing

95 Spencer Street, Birmingham, B18 6DA, UK Tel: +44 (0)121 523 1121 Email: karen@bignellshackladyewing.com www.bignellshackladyewing.com

Boogertman + Partners

Nicol Main Office Park, 4 Bruton Road, Bryanston, 2194, Johannesburg, South Africa Tel: +27 11 790 1600 Email: mail@boogertmanjhb.co.za www.boogertman.com

BurkeRickhards Architects

Devcor House, 91 North Hill, Plymouth, PL4 8JT, UK Tel: +44 (0)1752 266 111 Email: mail@burkerickhards.co.uk www.burkerickhards.co.uk

Camenzind Evolution Ltd

Samariterstrasse 5, 8032 Zurich, Switzerland Tel: +41 44 253 9500 Email: zurich@camenzindevolution.com www.camenzindevolution.com

Chartier Dalix Architectes

30 rue émile lepeu, 75011, Paris, France Tel: +33 1 43 57 79 14 Email: contact@chartier-dalix.com http://chartier-dalix.com

Colman Architects

27 Harcourt Street, London, W1H 4HP, UK Tel: +44 (0)20 7535 2040 Email: use online form www.colmanarchitects.co.uk

Colwyn Foulkes & Partners

229 Kensington High Street, London, W8 6SA, UK Tel: +44 (0)20 7938 2464 Email: london@colwynfoulkes.co.uk www.colwynfoulkes.co.uk

Cox Richardson Architects and Planners

Level 2, 204 Clarence Street, Sydney, NSW 2000, Australia Tel: +61 (0)2 9267 9599 Email: sydney@cox.com.au www.coxarchitecture.com.au

Crawford Architects

1801 McGee Street, Suite 200, Kansas City, MO 64108, USA Tel: +1 816 421 2640 Email: david.murphy@crawford-usa.com www.crawfordarch.com

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Amateur Swimming Association (ASA)

Harold Fern House, Derby Square, Loughborough, Leicestershire LE11 5AL Tel: +44 (0)1509 618700 Email: customerservices@swimming.org www.swimming.org

Anglia Ruskin

Cambridge Campus, E Rd, Cambridge CB1 1PT, UK Tel: +44(0)845 271 3333 Email: answers@anglia.ac.uk www.anglia.ac.uk

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Bucks New University

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Coventry University

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Edge Hill University

St Helens Rd, Ormskirk, Lancashire L39 4QP, UK Tel: +44 (0)1695 575171 Email: admissions@edgehill.ac.uk www.edgehill.ac.uk

Edinburgh University

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Icon Vocational Training

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Jordan Fitness

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Hattrick Marketing

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HeatPumps4Pools

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Honeywell Building Solutions

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HS Sports

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Huck Nets (UK)

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Plastic Extruders Ltd

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Plastica Ltd

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Playdale Playgrounds Limited

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Prospec Ltd

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Rubb Buildings Ltd

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S & C Slatter

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Safe Space Lockers Ltd

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SIS Pitches

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Skanska

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Slick Seating UK (GL Events)

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Smith Construction

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Sport & Play Ltd

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52 Granby Row, Manchester, M1 7AY, UK Tel: +44 (0)161 639 0950 E-mail: info@worldacademysport.org www.worldacademysport.org

Xn Leisure Systems Limited

85D Park Drive, Milton Park, Abingdon, Oxon. OX14 4RY Tel: +44 (0)870 803 0700 Email: info@xnleisure.com www.xnleisure.com

York Barbell UK Ltd

York Way, High March Industrial Estate, Daventry, NN11 4YB, UK Tel: +44 (0)844 225 3112 Email: yorkhelp@yorkfitness.co.uk www.yorkfitness.com

Zaun Ltd

Steel Drive, Wolverhampton, WV10 9ED, UK Tel: +44 (0)1902 796 699 Email: sales@zaun.co.uk www.zaun.co.uk

PRODUCT SELECTOR

AV/MULTIMEDIA/SOUND

ADI UK www.theadigroup.com Bosch Security Systems www.boschsecurity.co.uk

Crystal CG International www.crystalcg.co.uk

Daktronics UK www.daktronics.co.uk

Eastern Acoustic Works www.eaw.com

Electro-Voice www.electrovoice.com

Honeywell Building Solutions www.honeywell.com

HS Sports Ltd www.hssports.co.uk

IndigoVision www.indigovision.com

innovision www.innovision.eu

Lighthouse Technologies (UK) Ltd www.lighthouse-tech.com

Mediatec Group www.www.mediatecgroup.com

Mitsubishi Electric Europe BV www.mitsubishielectric.co.uk

Swiss Timing www.swisstiming.com

Tag Heuer Professional Timing www.tagheuer-timing.com

The Technical Department www.thetechnicaldepartment.com

TS Sports http://ts-sports.com

Wiener Medien Werkzeuge GmbH www.medienwerkzeuge.at

BUILDING/CONSTRUCTION

Aggregate Industries UK www.aggregate.com

Alpine Bau GmbH www.alpine.at/en

AMB Sports Ltd www.ambsports.com

Arena Estadios www.arenaestadios.com.br

Barr + Wray www.barrandwray.com

Barr Engineering www.barr.com

Birdair www.birdair.com Blakedown Sport & Play www.blakedown.co.uk

Cleveland Land Services www.cleveland-land-services.co.uk

Construct Stadia www.constructstadia.com

Cooper Industries www.cooperindustries.com

Harsco Infrastructure Services Ltd www.harsco-i.co.uk

Hunt Construction Group www.huntconstructiongroup.com

NUSSLI Group www.nussli.com

Rubb Buildings Ltd www.rubb.co.uk

S & C Slatter www.sandcslatter.com

Scape System Build Ltd www.scapebuild.co.uk

Skanska www.skanska.com

Spade Oak www.spadeoak.co.uk

Spatial Structures www.spatialstructures.com

Tata Steel Europe www.tatasteelconstruction.com

Thornton Sports Ltd www.thorntonsports.co.uk

TigerTurf UK Ltd www.tigerturf.com

Willmott Dixon Ltd www.willmottdixongroup.co.uk

COMMUNICATIONS

Big Wave Media www.bigwavemedia.co.uk

PKL Group www.pkl.co.uk

Vero Communications www.verocom.co.uk

COMPUTER SYSTEMS/SOFTWARE

Agilysys (Europe) Ltd www.agilysyseurope.com

BiP Solutions www.bipsolutions.com

Exponential-e Ltd www.exponential-e.com

Gladstone Health & Leisure www.gladstonemrm.com

Green 4 Solutions www.green4solutions.com

Legend Club Management Systems Ltd www.legendware.co.uk

OptimaSport www.optimasport.co.uk RE:SYSTEMS

www.re-systems.co.uk

Retention Management www.retentionmanagement.com

Ungerboeck Systems International www.ungerboeck.com

ELECTRICAL

Aggreko www.aggreko.com

The Technical Department www.thetechnicaldepartment.com

ENERGY MANAGEMENT

Aggreko www.aggreko.com

Plastica www.plasticapools.net

Sustainable Events Ltd www.sustainableeventsltd.com

ENGINEERING

Aecom www.aecom.com

Alpine Bau GmbH www.alpine.at/en

Arup Sport www.arup.com

Atkins www.atkinsglobal.com

Birdair www.birdair.com

Buro Happold Ltd www.burohappold.com

Cleveland Land Services www.cleveland-land-services.co.uk

Cundall www.cundall.com/sectors/lifestyle

Edge Structures www.edgestructures.com

Harsco Infrastructure Services Ltd www.harsco-i.co.uk

Hightex www.hightexworld.com

Max Boegl www.max-boegl.com

Poyry www.poyry.com

Rubb Buildings Ltd www.rubb.co.uk

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PRODUCT SELECTOR

ENGINEERING CONTINUED

Skanska www.skanska.com Walter P Moore www.walterpmoore.com

EVENT HIRE

Aggreko www.aggreko.com

Al Laith www.allaith.com

Arena Group www.arenagroup.com

ATP Event Experts www.atpi.com

ES Global www.esglobalsolutions.com

GL Events Owen Brown www.owen-brown.co.uk

Hire Space www.hirespace.com

Mediatec Group www.mediatecgroup.com

Slick Seating UK (GL Events) www.slick-seating.com

EVENT MANAGEMENT

4 Global www.fourglobal.org

Al Laith www.allaith.com

Arena Group www.arenagroup.com

ATP Event Experts www.atpi.com

DB Schenker Sports Events www.dbschenker.com

Definitive Sport www.definitivesport.co.uk

Destination Sport www.destinationsport.eu

Event Planning Group www.eventplanninggroup.com

Forum Events Ltd www.forumevents.co.uk

Global Games Sports www.globalgamessports.com

Mediatec Group www.mediatecgroup.com

Movement Strategies www.movementstrategies.com

PKL Group www.pkl.co.uk pmplegacy www.pmplegacy.com

Steer Davies Gleave www.steerdaviesgleave.com

Sustainable Events Ltd www.sustainableeventsltd.com

The Cavendish Group www.cavendishg.com

The Technical Department www.thetechnicaldepartment.com TMG Sport

www.tmgsport.com UK Sport

www.uksport.gov.uk

FITNESS EQUIPMENT

AlterG Inc www.alterg.com

Concept Fitness International www.conceptfitnessinternational.co.uk

EXF Perform Better Europe Ltd www.exf-fitness.com

Escape Fitness Ltd www.escapefitness.com

FitPro www.fitpro.com

Gen3 Kinematics www.gen3kinematics.com

Hexagone UK www.myhexagone.com

Jordan Fitness www.jordanfitness.co.uk

Matrix Fitness Systems Ltd http://uk.matrixfitness.com

milon Industries GmbH www.milon.com

MYZONE (CFM) www.myzone.org

Octane Fitness www.octanefitness.com

OptimaSport www.optimasport.co.uk

Physical Company Ltd www.physicalcompany.co.uk

Polar Electro www.polarusa.com

Precor www.precor.com

Pulse Fitness www.pulsefitness.com

SAQ International www.saqinternational.com

SCIFIT Ltd (UK) www.scifit.uk.com ServiceSport UK www.servicesport.co.uk

Tanita Europe BV www.tanita.co.uk

York Barbell UK Ltd www.yorkfitness.com

FLOORING

Action Floor Systems, LLC www.actionfloors.com

Altro Ltd www.altro.com

BASF Construction Chemicals Europe AG www.conica.basf.com

Gerflor Ltd www.gerflor.co.uk

Granwood Flooring Ltd www.granwood.co.uk

Jordan Fitness www.jordanfitness.co.uk

Junckers Ltd www.junckers.com

Mondo UK www.mondosport.com

Polyflor Ltd www.polyflor.co.uk

Recticel NV www.re-bounce.com

Rubb Buildings Ltd www.rubb.co.uk

Sports Surfaces (UK) Ltd www.sportssurfacesuk.com

Tarkett Sports Flooring www.tarkett-sports.com/english

TigerTurf UK Ltd www.tigerturf.com

LIGHTING

Abacus Lighting Ltd www.abacuslighting.com

Cooper Industries www.cooperindustries.com

CU Phosco Lighting Ltd www.cuphosco.co.uk

Fael S.p.A. www.faelluce.com

Musco Lighting Europe Ltd www.musco.eu

Robe UK Ltd www.robeuk.com

Rubb Buildings Ltd www.rubb.co.uk

Thorn Lighting Ltd www.thornlighting.com

LOCKERS/WASHROOMS

Kemmlit UK www.kemmlituk.com

Prospec Ltd www.prospec.co.uk

Ridgeway Furniture Manufacturing Ltd www.ridgewayfm.com

Safe Space Lockers Ltd www.safespacelockers.co.uk

Venesta Washroom Systems www.venesta.co.uk

MEMBERSHIP/TICKETING

CFM (Member Drive) www.memberdrive.net

Gladstone Health & Leisure www.gladstonemrm.com

Green 4 Solutions www.green4solutions.com

Legend Club Management Systems Ltd www.legendware.co.uk

MARKETING

Hattrick Marketing http://hattrickmarketing.com

NATURAL GRASS

Barenbrug UK Ltd www.barenbrug.co.uk

BSH (British Seed Houses Ltd) www.britishseedhouses.com

BSW Berleburger Schaumstoffwerk GmbH www.berleburger.com

Matchsaver Ltd www.matchsaver.com

STRI www.stri.co.uk

Stuart Canvas Products www.stuartcanvas.co.uk

OUTDOOR STRUCTURES

Al Laith www.allaith.com

Arena Group www.arenagroup.com

Birdair www.birdair.com

Collinson plc www.collinson.co.uk

CopriSystems www.coprisystems.com

De Boer Structures Ltd www.deboer.com GL Events Owen Brown www.owen-brown.co.uk

Neptunus Ltd www.neptunus.co.uk

Norseman Structures www.norsemanstructures.com

NUSSLI Group www.nussli.com

Portaloo www.portakabin.co.uk/portaloo.html Spaciotempo UK Ltd

www.spaciotempo.co.uk

Spatial Structures www.spatialstructures.com

TigerTurf UK Ltd www.tigerturf.com

Veldeman Structure Solutions www.veldemangroup.com

PAINTS/COATINGS

BASF Construction Chemicals Europe AG www.conica.basf.com

Sports Coatings Ltd www.sportscoatings.com

White Line Services www.white-line-services.com

PLAY

Hexagone UK www.myhexagone.com

Playrite www.playrite.co.uk

Proludic Ltd www.proludic.co.uk

TigerTurf UK Ltd www.tigerturf.com

Wicksteed Leisure Ltd www.wicksteed.co.uk

QUEUING SYSTEMS

APT Controls Ltd www.aptcontrols.co.uk

Movement Strategies www.movementstrategies.com

SEATING

Alto Seating Systems Ltd www.alto-seating.co.uk

Arena Group www.arenagroup.com

Audience Systems www.audiencesystems.com

GL Events Owen Brown www.owen-brown.co.uk

NUSSLI Group www.nussli.com

Rubb Buildings Ltd www.rubb.co.uk

SPS Terraces www.ie-sps.com

Starena www.starenaint.com

SECURITY/ACCESS CONTROL

APT Controls Ltd www.aptcontrols.co.uk

Bosch Security Systems www.boschsecurity.co.uk

Cooper Industries www.cooperindustries.com

Duralock (UK) www.duralock.com

Fireco Ltd www.firecoltd.com

IndigoVision www.indigovision.com

JB Corrie & Co Ltd www.jbcorrie.co.uk

Ojmar www.ojmar.es

Rapid Retail www.rapidretail.co.uk

Zaun Ltd www.zaun.co.uk

SERVICE/MAINTENANCE

Hexagone UK www.myhexagone.com

JC Leisure Solutions www.jcleisuresolutions.com

ServiceSport UK www.servicesport.co.uk

SPORTS DRINKS/SUPPLEMENTS

GlaxoSmithKline/GSK www.gsk.com

Multipower Sportsfood www.multipoweruk.com

Nutrichem diet + pharma GmbH www.nutrichem.de

Reflex Nutrition Ltd www.reflex-nutrition.com

Weider Global Nutrition www.weider.com

PRODUCT SELECTOR

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SPORTS EQUIPMENT

Harrod UK Ltd www.harrod.uk.com Hexagone UK

www.myhexagone.com Mantis Sport International www.mantis-sport.com

Mark Harrod Ltd www.markharrod.com

Physical Company Ltd www.physicalcompany.co.uk

Taylor Made Designs www.taylormadedesigns.co.uk

SURFACES SPORTS/PLAY

ACT Global Sports www.actglobalsports.com

Action Floor Systems, LLC www.actionfloors.com

Altro Ltd www.altro.com

AMB Sports Ltd www.ambsports.com

BASF Construction Chemicals Europe AG www.conica.basf.com

Blakedown Sport & Play www.blakedown.co.uk

Bonar Textiles www.bonaryarns.com

Charles Lawrence Surfaces Ltd www.charleslawrencesurfaces.co.uk

Charterhouse Turf Machinery Ltd www.charterhouseturfmachinery.co.uk

Desso Sports Systems www.dessosports.com/en

Dorset Woolliscroft www.dorsetwoolliscroft.com

Dow Chemical Company Ltd www.dow.com/artificialturfsolutions

Edel Grass BV www.edelgrass.com

FieldTurf Tarkett www.fieldturf.com

Gerflor Ltd www.gerflor.co.uk

Gezolan AG www.gezolan.ch

Granwood Flooring Ltd www.granwood.co.uk

GreenFields www.greenfields.eu

Junckers Ltd www.junckers.com Lano Sports www.lanosports.com

Limonta Sport www.limontasport.com Matchsaver I td

www.matchsaver.com

McArdle Sport-Tec Ltd www.mcardle-astroturf.co.uk

Mondo UK www.mondosport.com

Playrite www.playrite.co.uk

Plexipave www.plexipave.com

Polytan Sportstättenbau GmbH www.polytan.com Recticel NV

www.re-bounce.com

Replay Maintenance Ltd www.replaymaintenance.co.uk

Rubb Buildings Ltd www.rubb.co.uk

S & C Slatter www.sandcslatter.com

Sekisui Alveo www.sekisuialveo.com

Sports Coatings Ltd www.sportscoatings.com

Sports Surfaces (UK) Ltd www.sportssurfacesuk.com

Stuart Canvas Products www.stuartcanvas.co.uk

Support in Sport (UK) Ltd www.supportinsport.com

Tact Enviro Ltd www.tactltd.com

Tarkett Sports Flooring www.tarkett-sports.com/english

Technical Surfaces Ltd www.technicalsurfaces.co.uk

TenCate Grass www.tencate.com

The Spade Oak Group www.spadeoak.co.uk

Thornton Sports Ltd www.thorntonsports.co.uk

TigerTurf UK Ltd www.tigerturf.com

Trocellen GmbH http://trocellen.com

White Horse Contractors Ltd www.whitehorsecontractors.co.uk White Line Services www.white-line-services.com

SWIMMING POOLS

Anti Wave Europe www.antiwave.co.uk

Aquamat Four Seasons www.aquamat4seasons.co.uk

Astral UK www.astralpooluk.com

Certikin International www.certikin.co.uk

Daktronics UK www.daktronics.co.uk

FaulknerBrowns www.faulknerbrowns.co.uk

Hanovia Ltd www.hanovia.com

Hexagone UK www.myhexagone.com

Hippo Leisure Ltd www.hippoleisure.com

JC Leisure Solutions www.jcleisuresolutions.com

Myrtha Pools www.myrthapools.com

OpenAire Inc www.openaire.com

Plastic Extruders Ltd www.plastex.co.uk

Plastica www.plasticapools.net

Poolpod Products Ltd www.poolpodproducts.com

S & P Ltd www.s-parchitects.com

Swimtag www.swimtag.co.uk

Triogen Ltd www.triogen.com

TRAINING

AISTS www.aists.org

World Academy of Sport www.worldacademysport.org

WATER TREATMENT

Certikin International www.certikin.co.uk

Hanovia Ltd www.hanovia.com

Hexagone UK www.myhexagone.com

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FAULKNERBROWNS ARCHITECTS

www.faulknerbrowns.co.uk

FIELDTURF

FieldTurf Tarkett is the outdoor sports division of Tarkett group and is one of the leading and most trusted companies for artificial turf, with over 7000 installations worldwide.



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www.fieldturf.com

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TWFST

www.gladstonemrm.com

NUSSLI GROUP

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www.nussli.com

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www.stechert.de

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