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ASIA PACIFIC

BUYERS'
GUIDE

Your new guide to venue specialists in the
Asia Pacific region

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ASIA PACIFIC
26-28 SEPT 2016



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VENUE DESIGN/BUILD,
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Asia Pacific is emerging as a hotbed of sports venue developments – with 75 actual/predicted projects, including the new **Perth Stadium** and **Kai Tak Sports Park** – and is also a hive of activity when it comes to preparations ahead of the region's hosting of a multitude of mega sporting events, from the **Gold Coast 2018 Commonwealth Games** to the **Japan 2020 Summer Olympics & Paralympic Games**.

It seemed only right therefore to produce a special Buyers Guide focused on this dynamic region and this *Asia Pacific Buyers Guide* provides you with details on a range of industry-leading companies, many of whom will be showcasing their wares at **Stadia & Arena Asia Pacific 2016**. From their signature projects to their innovative products, services and solutions, each entry also includes contact information, so you have all the necessary information at your fingertips, thanks to the live links to the company's websites.

Enjoy reading and we hope to see you at **Stadia & Arena Asia Pacific 2016** this September.

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Katie McIntyre
Publication Director
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“ We have recently signed an exclusive distribution agreement in Japan and I am very excited about the prospects of Jorkyball in all Asia. You will hear a lot about us in the very near future! ”

Leonardo Giangreco Biancheri,
Founder and CEO
3bble srl

3bble srl is an Italian based company that manufactures and distributes all over the world the courts to play Jorkyball, football in 50-sqm.

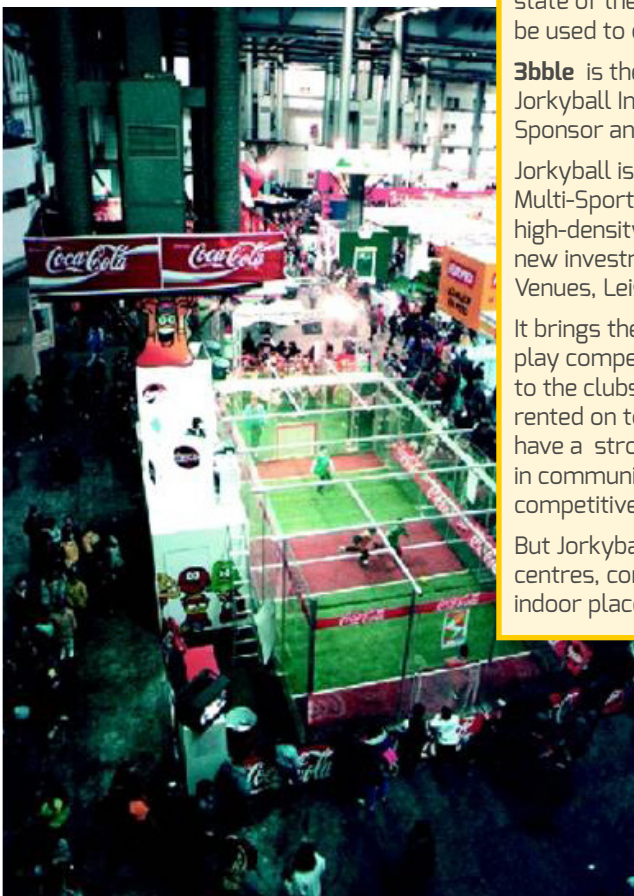
Jorkyball is a two-a-side soccer game played in 10m x 5m state of the art plexiglass free-standing court. The walls can be used to dribble, pass and score.

3bble is the only recognised manufacturer of courts of the Jorkyball International Federation (JIF) of which it is Official Sponsor and Supplier.

Jorkyball is a good opportunity of investment for Gyms, Multi-Sports and Leisure Centres in space-constrained and high-density metropolitan areas. It is also proving to be a new investment and fan engagement opportunity for Sports Venues, Leisure Spaces and Sporting Event Organisers.

It brings the opportunity to keep fit, socialise with friends, play competitively and most important, have fun! It provides to the clubs an extra revenue stream as it is normally rented on top of the cost of membership. It is proving to have a strong retention rate with people gathering together in communities that play both for fun with friends and/or competitively in tournaments organised by the clubs.

But Jorkyball courts can also be installed in hotels, shopping centres, corporate offices and, more in general, all those indoor places where space is scarce and expensive.

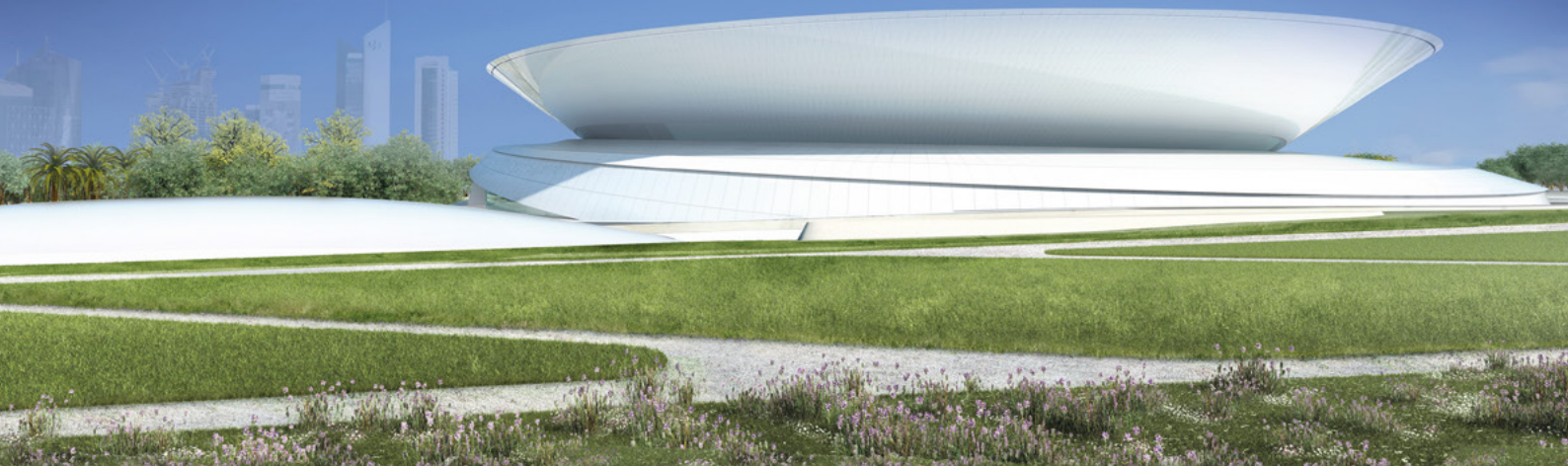


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Arup's Sports Venue Design specialists have a proven track record in the design and delivery of major sports venues throughout the world. Our team has been an integrated part of the design of many iconic sports venues, where we've provided expertise ranging from specialist bowl and sports venue architecture, through numerous sport engineering disciplines to the design of the field of play itself. The team's extensive experience offers organising committees, architects, contractors and event operators a range of integrated multi-disciplinary solutions that resolve the complex relationships specific to major event venues.

CURRENT PROJECTS

Singapore National Stadium - a 55,000-seat sports venue, air-cooled for comfort and designed with a movable roof and retractable seating.

Beijing Olympic Stadium, sports venue design for the 91,000-seat centrepiece of the **2008 Olympics**. Architect: **Herzog & de Meuron**.

Etihad Stadium, 2002 Commonwealth Games Stadium, 38,000 seats; and subsequent conversion to home for **Manchester City Football Club Stadium**, with 50,000 seats.

“ Our holistic design approach has the power to transform people's sports experience. We believe in solutions of intelligence, elegance, and substance, which generate value from the complex and diverse challenges we face in sport today. **”**

Director Arup Sport Venue Design
Paul Brislin
Arup Sport

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- CONSULTING

Erhan Ilicali
Architect & Director of Architecture Departments
BKA

Headquarters
Istanbul, Turkey

Bahadır Kul Arcitects (BKA) was founded in 2003 by Bahadır Kul. Amongst its completed mega projects are, **Kadir Has Stadium** in Kayseri West City Terminal and Nevsehir Bus Terminal. Moreover, BKA has experience of many smaller bespoke projects like the **Open Courts Sports Complex and Skating Rink** in Kayseri, which was nominated for the prestigious European Union Prize Mies Van Der Rohe, this year. BKA creates buildings that enrich peoples' lives. The complexity, the challenges and the forces of the site make the design process more dynamic. As a young architecture firm, dynamism and the interaction of the disciplines are important qualities. This approach is augmented by a strong commitment to public, clients, academics and the professionals. BKA aims to create projects evolving from their dynamic and creative architecture team. BKA are interested in the experiential qualities of architecture, ways in which form and material can draw out lasting emotional or cognitive manifestation. To achieve such an architecture requires careful attention to the unique parameters of each project, especially their context and typologies. Research and analysis are distilled, with relevant facts materialized. BKA team aims to create conditions that allow for a resonant experience by the synthesis of ideas through design.

CONTACT DETAILS	
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Email	nurgul@bahadirkul.com

CURRENT PROJECTS

One recent project that attracted international acclaim for its innovative design was in Konya, Turkey. With a capacity of 42,000 seats, the stadium opened in September 2014 after a construction period of just 13 months. In 2015, the industry website stadiumdb.com held its fifth 'Stadium of the Year' competition, with a record 96,772 people, across 136 countries participating in the vote. Out of 32 nominated stadiums, **Konya Stadium** was voted the fifth best stadium of 2014.



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Headquarters
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“ Multiple distributed HD cameras would not enable the operator to work as efficiently and ergonomically as a single integrated system.



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Dieter Dallmeier
Founder and CEO
Dallmeier

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CONTACT DETAILS

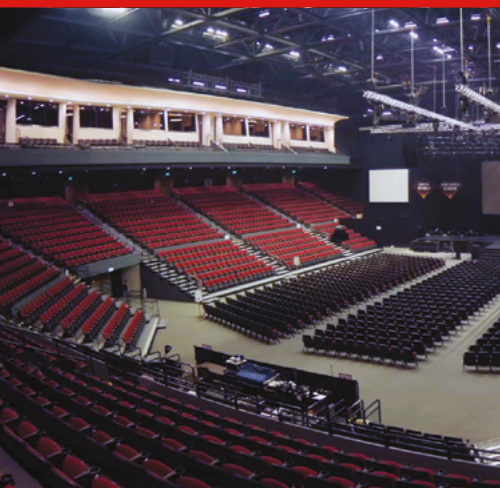
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HUSSEY SEATING

Hussey Asia-Pacific sets a high standard in public seating. Whether your requirement is for a large sports stadium/arena or simply a small gymnasium, Hussey Asia-Pacific is renowned for high quality and proven designs.

Offering the industry's premier seating options, all products are designed with style, comfort, low maintenance, safety and performance in mind. With a reputation for environmentally responsible manufacturing, Hussey also meets and exceeds the international standards that modern audiences demand.

Comfortable, beautiful, and practical spaces are designed to meet our clients' exact specifications with excellent service and attention to detail. Bespoke seating solutions are time-tested, serving customers and their patrons with an unquestionable pedigree. We are also using advanced technologies including Revit 3D modelling, which can help overcome challenges to achieve optimal seating capacity and bring seating plans and designs to life in real-time as the specification process develops.

Hussey Asia-Pacific is a partner that delivers global strength with a trusted local presence. Partnered with a comprehensive network of experienced local seating experts, we ensure that every seating solution proposal meets the unique needs of each client. And we provide the added skills and know-how to ensure each and every installation remains in top condition, performing beautifully and providing a return on the investment.

“ Hussey Seating Company has a long and proud history in the Asia-Pacific region. As the global leader in public seating systems, we provide professional engineering and manufacturing expertise from the US, UK and Asia to every client. A total and uncompromising commitment to quality and customer satisfaction makes Hussey the brand of choice.”

Todd Pierce
Vice President Asia-Pacific
Hussey Seating

Headquarters
Maine, USA



CURRENT PROJECTS

Hussey Seating Company and group products can be found in more than 50% of all new and renovated major sports venues in North America, including the two newest football stadiums in Mexico, as well as at some of the most prestigious stadiums and arenas in Europe, Asia and the Middle East.

CONTACT DETAILS

www.husseyasiapacific.com

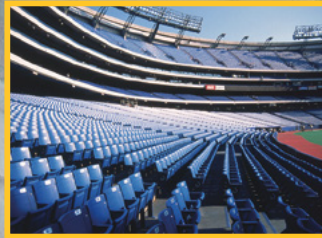
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“ *SPS Terraces are making a name for themselves in a competitive market where there has been only one choice - concrete. SPS brings new opportunities to the stadia design industry and is carving out a name, with an impressive track record of prestigious projects now in-service. Owners, designers and contractors have been impressed with the benefits that it brings to the table - greater creativity, lower budgets and faster project execution.* ”

Scott Kent
Business Manager
Intelligent Engineering



(Above & right) San Jose Earthquakes
18,000-seat Avaya Stadium



Headquarters
Buckinghamshire, UK

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CURRENT PROJECTS

SPS Terraces are in service at sporting venues around the globe. Repeat clients include USTA for who a new grandstand is underway. From **Flushing Meadow** to **Daytona**, the **San Jose Earthquakes' Avaya Stadium** to the **National Gymnastics Arena** in **Azerbaijan**, **SPS Terraces** are in service. In the transformation of the **London 2012 Olympic Stadium**, **SPS Terraces** have been used for cantilevered terracing in the **First Class Hospitality Suite** areas. **SPS Terraces** also provided temporary seating stands in the **Aquatics Centre** at the **London 2012 Olympics** and have been sold on for re-use in a new venue.

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Established in 1914, **Kotobuki Seating** is a pioneering manufacturer of furniture for public facilities. Japan's foremost provider of seating for theatres, cinemas, arenas, and stadiums, as well as furniture for classrooms and lecture halls, it is also active worldwide, with affiliates in the USA, UK, France, Vietnam, Singapore, Taiwan, and South Korea.

We have been working with clients and architects to design and deliver the best seating products for many prestigious venues. At sports events, people sit side by side and share the thrills and excitement, which is common worldwide. At such events, our chairs have been kicked and struck as people displayed passion and enthusiasm. As a manufacturer of quality and tough chairs, we have been highly trusted, and will continue to provide thorough quality control to maximise customer satisfaction.



Headquarters
Tokyo, Japan

MAJOR PROJECTS

Yokohama Arena – venue for sports and multi-events with 17,000 retractable and fixed seats. Renovated in 2016.

Tokyo Dome – all-weather multipurpose and baseball stadium with 55,000 seats. Renovated in 2016.

Saitama Super Arena – indoor sports and cultural event venue with 37,000 customised retractable and fixed seats.

Saitama Stadium 2002 – 63,700 seats for this football stadium.

“As a creator of public spaces, our mission is to satisfy the various requirements related to the strength, durability and safety of chairs and maintain high standards. The need for reliable chairs is universal. Focusing on people’s need to feel secure, we pursue “comfortable chairs” based on our firm belief “Peace of mind is the basis of enjoyment.””

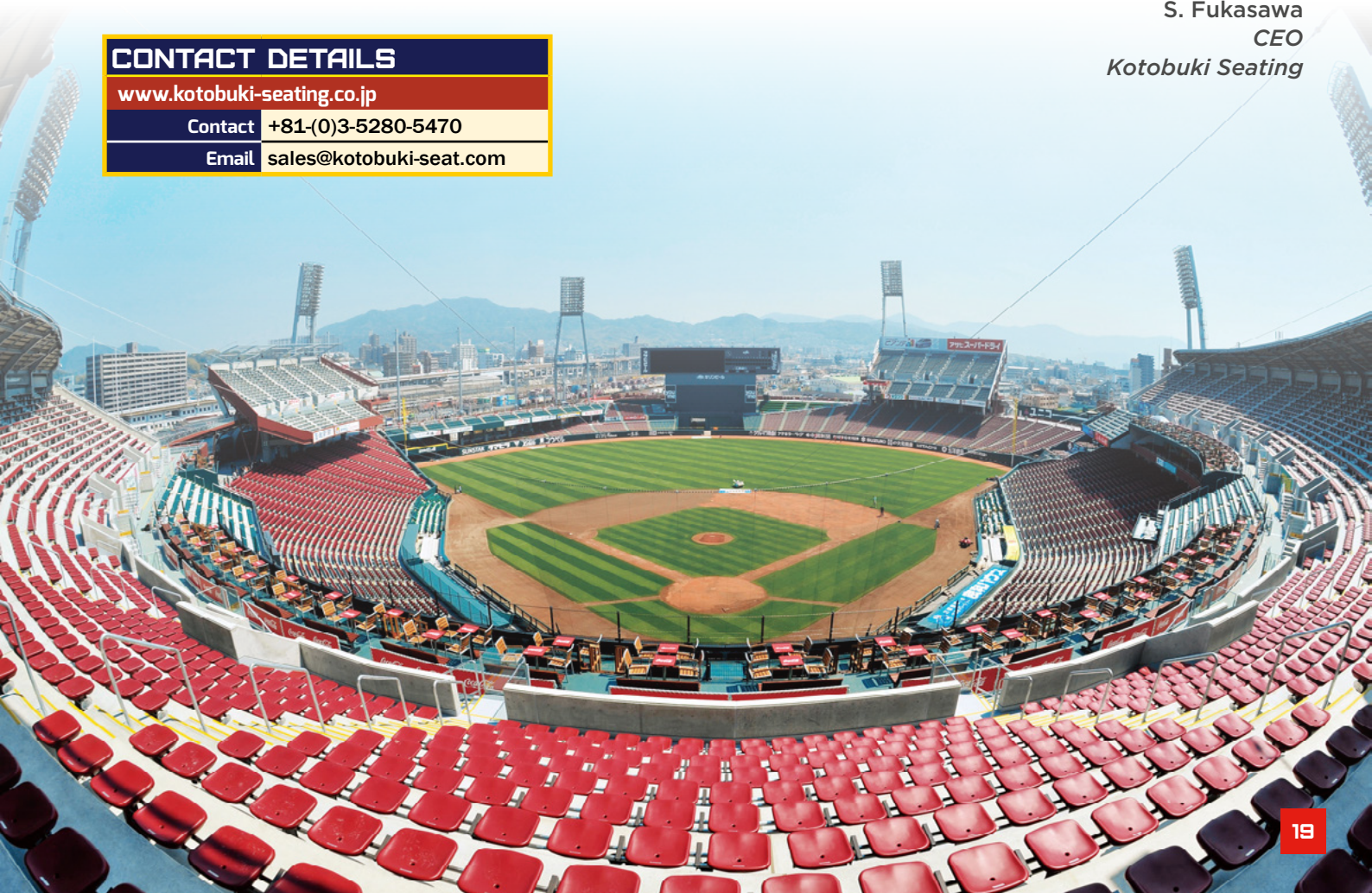
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“ KSS continue to seek global sporting challenges and the Asia Pacific region is one of the most exciting sports and leisure markets, we look forward to being part of its future. ”

Andy Simons
Director
KSS



Headquarters
London, UK

KSS are internationally recognised as a leading sports architecture practice, specialising in stadia, indoor arenas and training centres. We also have a portfolio in related leisure, hotel, mixed-use, and commercial development.

We work with our clients to create venues of high quality and intense sporting and spectator experiences. We assist our clients in growing their business, driving increased revenue and developing their brand. KSS provide a full range of sports design consultancy services in master planning, architecture, interior design, branding, graphics and wayfinding.

From our main office in central London we create intelligent energy-efficient architecture where the design is informed by site context, functionality and flexibility. Our sports team leaders have 25 years of experience in stadium design and are proud to have worked globally in this field. Key highlights are **Stamford Bridge** for **Chelsea FC** in London, **Coimbra Stadium** in Portugal, **The Amex Stadium** in Brighton, **Stade Océane** in Le Havre, **Sammy Ofer Stadium** in Haifa, **Anfield Stadium** concourses for **Liverpool FC** and a complete design solution to the players' facilities, stadium bowl and hospitality at **Twickenham Stadium**.

KSS' partnering approach and extensive knowledge of stadia and training facilities informs our design approach. Our designs will always reinforce a venue or clubs heritage and maintain established values providing intensive sporting environments that inspire spectators whilst providing significant additional revenue for our clients.

CURRENT PROJECTS

KSS are currently working on the progressive redevelopment of **The All England Lawn Tennis Club (AELTC)** at **Wimbledon**, the **National Indoor Arena** in Dublin and the **Anfield Stadium** expansion for **Liverpool FC**.



CONTACT DETAILS

www.kssgroup.com

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Email dominic.fleming@kssgroup.com



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MEHLER TECHNOLOGIES

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An active dialogue with planners, producers and processors from a variety of sectors and industry branches are proof of a close and trusting cooperation. The basis of all technical textiles is the carrier fabric, which is manufacturer in the company's own weaving mills. Coatings made of several components are put together according to the application. The result is high quality fabrics and high-tech products, which are used in almost all global industries.

We manufacture our products at two sites in Germany and one in the Czech Republic. Sales companies in Italy, France, Great Britain, Poland, Latvia, Romania, Turkey and the USA, as well as sales partners in other European countries, Asia and Australia serve customers in more than 80 countries.

CURRENT PROJECTS

Konya Stadium

Green was the chosen colour to represent the football club playing in the stadium. The new **Konya Stadium** is a multi-purpose arena. It is part of a complex of sports venues on the outskirts of the city: picture below the Konya Olympic Village. The stadium has a capacity of nearly 42,276 people (all-seated) and it's covered by 76,000 sqm of green and white coloured PVDF lacquered Mehler membrane.

Posen Stadium

The **Municipal Stadium Miejski w Poznaniu**, in Poland was renovated for the **European Football Championship 2012**. It was a ground breaking redevelopment of the existing structure. Covered with 52,000 sqm of white PVDF lacquered Mehler membrane, the tensile structure had been in focus of the changes of the stadium.



CONTACT DETAILS

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“ We have over 60 years of experiences with coated textiles. Especially in the market of textile architecture, we have long-term experiences. I am thinking about projects like the Grand Stand in Elspe; a project which was constructed in 1978 close to the Sauerland, a region in Germany well-known for harsh wetter conditions. Nowadays we use different technologies, like our Mehatop N, a membrane coated with a Nano-elements optimised lacquer. With this kind of material we do not have any doubts in granting 20 years warranty on our material. ”

Roland Keil
Textile Architecture Business Leader
Mehler Technologies





50 YEARS, 2 MILLION SEATS

NPC SEATING

NPC seating is an affiliate of NPC - a plastic pallet manufacturer listed on the Korea Stock Exchange with revenue of \$450m. NPC seating offers comprehensive seating solutions for the facilities such as sports stadiums, arenas, schools and auditoriums by designing, manufacturing and installing spectator seats, retractable seating platform and demountable bleacher. As an industry leader in Korea, the company has supplied 2,000,000 spectator seats to various clients in and out of the country over the past 50 years.



Headquarters
Korea

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Ryan Park
Director, Head of Sales
NPC seating

MAJOR PROJECTS

1998 Winter Olympic Games, 2002 FIFA World Cup, 2010 Formula 1 Grand Prix, 2014 Asian Games, 2015 CISM World Games, 2015 The Pacific Games and 2015 World Water Forum.

LATEST PROJECTS

Samsung Lions Baseball Stadium (2016), SK Wyverns Baseball Stadium (2015), Gocheok Sky Dome (2015), KASC Sports Hall and Athletics Stadium (2015).



CONTACT DETAILS

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“Oracle Hospitality delivers a reliable technology platform robust enough to provide catering at exceptional speed to tens of thousands of fans, even during high-volume periods. One of the other great strengths of the Oracle Hospitality suits is the ability to integrate to multiple third party solutions to provide the stadium consolidated data and visibility across the entire operation”

Fiona Southam
Sales Director, Sports & Entertainment; Foodservice Management - JAPAC
Oracle Hospitality

Oracle has launched Oracle Hospitality, a new global business unit dedicated to helping the hospitality sector accelerate its move to the digital economy. Centered on the technology and expertise of MICROS Systems, a company with more than 35 years of experience in the hospitality sector, Oracle Hospitality will offer unprecedented scale and innovation.

Through the acquisition of MICROS, Oracle solutions are in use at hundreds of thousands of hospitality sites globally, and Oracle Hospitality will help those enterprises compete more effectively in a business landscape that has been fundamentally reshaped by disruptive technologies such as social, mobile, cloud, and big data. Serving an extensive portfolio of clients worldwide, MICROS solutions are utilised in hotels, casinos, table and quick service restaurants, leisure and entertainment, fuel and convenience, cruise, and travel operations in more than 180 countries, and on all seven continents.



Regional Headquarters
Sydney, Australia



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We are an internationally leading company in the field of lightweight and special construction.

We offer solutions for innovative architecture using materials such as steel, steel cables, glass, membranes and other polymer materials. In the process we create a unity of weight-minimised support structures with extremely high-performance envelope structures.

With our own planning departments, production facilities and corresponding assembly management, we at PFEIFER Cable Structures offer integrated solutions for demanding projects.

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PFEIFER SEIL UND HEBETECHNIK

The lightness of construction – playing with free forms, wide span elements and light weight structures: wherever architectural utopias of steel, steel cables, glass, membranes and other polymer materials are developed, **PFEIFER Cable Structures** is involved in their realisation, making the impossible possible and stretching transparency and distinctiveness to its extreme.

In over a thousand visionary projects to date: in sports stadia, airports, exhibition centres, wide span structures or bridges, and wherever a symbiosis of weight-minimised support structures and high-performance envelope structures creates innovative architecture.

Clients, architects and engineers rely on the quality and adherence to delivery dates of PFEIFER Cable Structures, securing our technical support from the very outset of the project and putting their trust in our care and decades of experience. You can benefit from our complete service, too: we advise and support you in design, development and calculation through the implementation planning; we manufacture and deliver, install and monitor, and offer comprehensive support even after completion. All around the world!



Headquarters
Hamburg, Germany



“The Client is at the heart of our business. Our target is to win our customers’ confidence by offering reliable service. Our performance to the Client is based on quality through competence. We are striving for innovation and new solutions. New solutions mean change. With the change we will shape the future.”

Thomas Hermeking
Senior Sales Manager/Senior Proposal Manager
PFEIFER Cable Structures

MAJOR PROJECTS

Following the trend to update and upgrade stadia PFEIFER has successfully delivered the new roof structure for **London Olympic Stadium**, which is the longest cantilevering stadium roof of the world. Right now works have started in **Khalifa Stadium**, Qatar, to replace and enlarge the old roof. With regard to turn-key projects Pfeifer has just finished the complete roof of the **Silesian Stadium** in Poland.



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From the **Super Bowl** and **Olympics** to the **Rugby World Cup** and **Yankee Stadium**, **Populous** helps the world's biggest teams, clubs and events build lasting connections with their communities, drawing people together for unforgettable experiences. In the world's top cities we have designed more than 2,000 projects worth \$30bn over the past 30 years. Our designs for places like the **Philippine Arena**, **Darling Harbour Live** in Sydney, **Yankee Stadium**, the **London Olympic Games** or **Incheon 2014 Asian Games Stadium**, have created emotional connections between people and the sports and entertainment places and events they love best.

Our unrivalled knowledge – both visionary and technical – is unveiled through comprehensive planning and design services with experiential design at the core. Our focus includes not just the individual buildings that define a community, such as sports architecture, conference and exhibition centre architecture or aviation design, but also the urban fabric that weaves these buildings together.

We have been recognised 200 times over with global design awards. We also have been listed three times over as one of *Fast Company* magazine's most innovative companies and No. 16 on the BRW Most Innovative Companies list of 2015. Every community has a story to tell – it is our mission to give life to those stories through design.

CURRENT PROJECTS

Incheon 2014 Asian Games Stadium, Philippine Arena, Darling Harbour Live, Suncorp Stadium, FFR Grand Stade, Emirates Stadium, Yankee Stadium, Arena Das Dunas, Wembley Stadium, Wimbledon, ANZ Stadium, Margaret Court Arena, Zhuhai Tennis Centre, London 2012 Olympic Stadium, London 2012 Stadium Transformation, Lord's, AT&T Park, Aviva Stadium and Nanjing Sports Park.

“Asia is an extraordinary place to work. As a designer you look at each country in a different light. The geographic, social and historical diversity in Asia presents amazing opportunities for designers to come up with designs which are localised but also world firsts at the same time.”

Paul Henry
Senior Principal
Populous



Regional Headquarters
Brisbane, Australia



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SIGNATURE SYSTEMS

Signature Systems Group is the world's largest manufacturer of stadium turf protection. Our innovative systems are in use around the globe at many of the highest profile events. Signature's commitment to its customers, products and people are at the core of an industry leading culture. With solutions manufactured to fit every application, a robust product pipeline, and a responsive team, we stand ready to help your venue kick-start a great 2016.



Headquarters
 Texas, USA

CURRENT PROJECTS

Olympics, Paralympics, Pan Am Games, Parapan Am Games, European Games, Super Bowl, NHL Winter Classic, Taylor Swift, One Direction, Paul McCartney and AC/DC.

“ For over a decade, Signature Systems Group has been a part of some of the most popular events the world has ever known. Our products and people continue to set a course that is unmatched in the industry. Give us a call today, let us hear your vision, and we can get to work! ”

Jason Frew
 Vice President
 Signature Systems



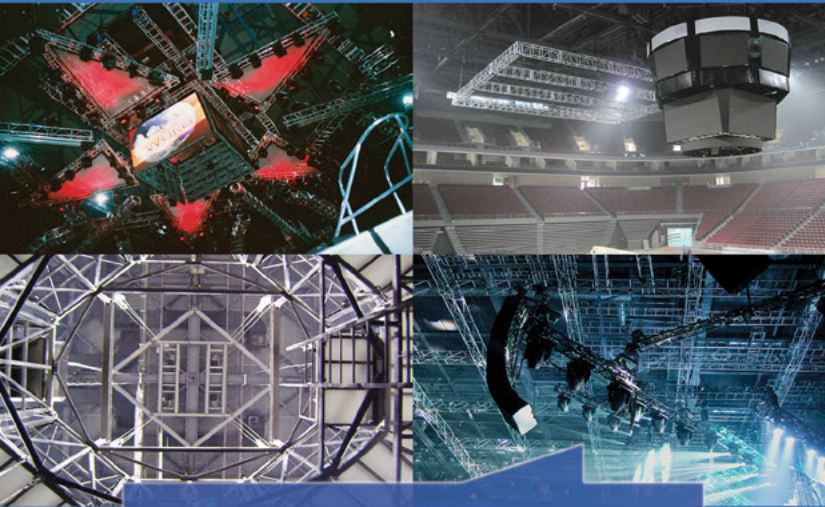
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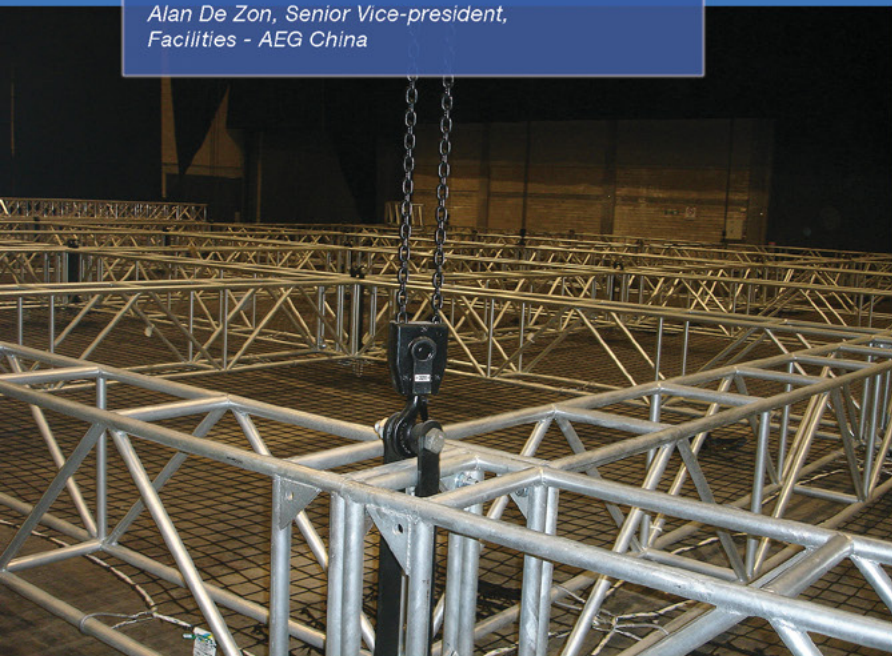
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Alan De Zon, Senior Vice-president,
Facilities - AEG China

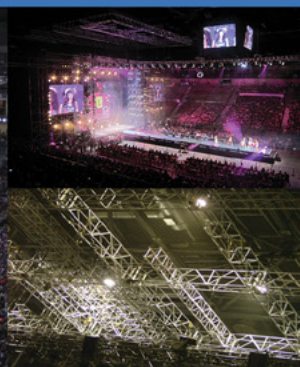


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STAR EVENTS

“ From a worldwide reputation for major concert technology, Star Events has diversified throughout the last decade to bring the touring concert techniques of rapid deployment to the world of major sporting and brand activation events. We are the ‘can-do’ company, with huge equipment stocks, that major agencies and event organisers go to. ”

Roger Barrett
Special Projects Director
Star Events Ltd



Focusing on 2016, **Star Events Ltd** will have been supplying equipment and services to the events industry for 40 years. We present the widest range of temporary structures for worldwide sporting, commercial and entertainment events. Few organisations can compete with us for our high-end engineering, planning and strategic support, offering a full-time engineering and design office with a range of mechanical and structural engineers. Irrespective of your audience size, we carefully consider each particular situation to deliver equipment and services clients can rely on. Whether you are looking for a mobile stage, rigging services or creative bespoke offering, our team is here to give you the tools for success.

CURRENT PROJECTS

New build sports arenas for **Beijing 2008** and **London 2012** retro-fitted with rigging systems to permit legacy multi-use. Main contractor for **Olympic & Paralympic Torch Relays – London 2012**, Opening and Closing ceremonies for **Invictus Games, London 2014**. Fan-zone/Live-site and sponsor activation specialist including **London 2012**, **Glasgow 2014** and **Rugby World Cup 2015**.



CONTACT DETAILS

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TRIPLEPLAY



Operating for over a decade in the digital media marketplace, Tripleplay has grown to become one of the world's leaders in the development and provision of digital signage, IPTV, video on demand and mobile device streaming software solutions.

We have developed an AV/IT single platform that takes into account the needs of the AV department but also addresses the security and integration needs of IT.

Tripleplay works with a worldwide network of partners and blue chip customers on every continent, delivering its single platform solution to clients across multiple industries.

Focusing on the Stadia and Arena market, Tripleplay have a number of impressive deployments, with installations at: **Manchester City FC, The SSE Hydro (Glasgow), Stade de France, Daytona International, Twickenham Stadium and Wimbledon Tennis.**



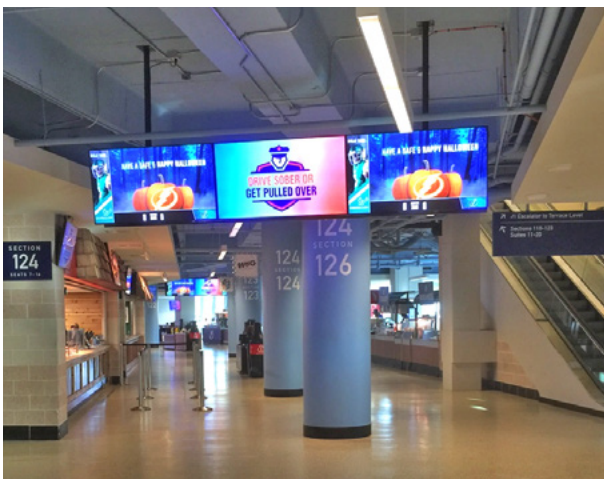
Headquarters
Singapore

“We have deployed solutions across the world into around fifty stadia and arena, working with some of the world's most iconic sports brands. We're proud of what we have achieved and see every client as a partner, helping them achieve their sporting and commercial goals.”

Steve Rickless
CEO
Tripleplay

MAJOR PROJECTS

World leading IPTV, Digital Signage and Video Streaming solutions manufacturer, Tripleplay, has been selected by **Daytona International Speedway (DIS)** to deliver live streaming content, communications, digital menus and interactive TV services to 1,400 screens around its new motorsports stadium. Additionally, Tripleplay becomes the latest partner to join the **Daytona Technology Platform** Powered by CDW.



CONTACT DETAILS

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We think our mid-size product is a big deal.

With Ungerboeck Software's latest release, we can now effectively and affordably deliver a credible solution to mid-size venues! It's pre-configured based on industry best practices. It's web-based eliminating the need for complex onsite IT management. And, it's easy to learn and use, reducing training time and costs.

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About Ungerboeck Software

Ungerboeck's venue and event management software solution is utilized by more than 40,000 users worldwide, including stadiums, arenas, convention and conference centers, theaters and performing arts centers. Thanks to its modularity and flexibility, Ungerboeck Software can easily be configured to meet your individual needs. As industry experts, we're happy to share our knowledge and help you find the right solution for your organization.

UNGERBOECK SOFTWARE

“I invite you to explore Ungerboeck Software and allow your team to focus on essential tasks like creating great experiences for your fans and patrons. Contact us to learn how our newest customers are live using Ungerboeck Software in just a few days and focusing on enhancing their guest experience.”

Alan Wong
Regional Director, North Asia
Ungerboeck



Headquarters
St. Louis, Missouri, USA

Ungerboeck Software is the world leader in end-to-end venue and event management software for stadiums, arenas, theatres, performing arts venues and convention and exhibition centres. By combining the functionality of three or more systems in a single airtight platform, Ungerboeck eliminates the need for costly and time consuming duplicate data entry. Our customers report saving 3-10 hours per week, per user since switching to Ungerboeck. With CRM, booking, event management, catering, operations and full financials in one database your entire staff has access to the same information in real time, allowing you to credibly unite teams across departments.

Ungerboeck Software's latest version allows us to effectively and affordably deliver a credible solution to small and midsize venues! It's pre-configured based on industry best practices and web-based, eliminating the need for complex onsite IT management. It's easy to learn and use, reducing training time and costs. Ungerboeck supports its worldwide client base from its world headquarters in St. Louis, Missouri and regional offices in Germany, France, Australia, Mainland China, Singapore and Hong Kong. Ungerboeck Software is available in six languages and drives increased revenues and decreased costs for over 40,000 event professionals in more than 50 Countries.

CURRENT PROJECTS

Singapore Sports Hub, ANZ Stadium, Venues NSW, Melbourne Stadiums Limited – Etihad Stadium, Sydney Cricket Ground Trust, Melbourne & Olympic Parks Trust, Qudos Bank Arena and Stadiums Queensland

CONTACT DETAILS

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ABU DHABI F1 | EMIRATES STADIUM | LONDON OLYMPIC VELODROME

VANGUARDIA
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VANGUARDIA CONSULTING

SERVICES

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- SOUND SYSTEMS
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- NOISE CONTROL

“Vanguardia is a consultancy committed to technical excellence. We strive to introduce new and innovative ways to work alongside our clients to help them capitalise on the continually evolving and exciting business opportunities.

We understand the demands, of the audience and operator alike, for high quality sound and acoustics in modern entertainment and multi-use venues. We understand how to achieve these targets through quality design from the concept stage through to on site commissioning, testing and optimisation.”

Jim Griffiths
Director
Vanguardia Consulting

Our company was formed 9 years ago by some of the most experienced engineers in stadia and arena acoustics. We have grown substantially specialising in high level sound, acoustic and AV design internationally.

Our engineers are recognised leaders in acoustics and sound design for arena and stadia and are currently expanding further into the Asia Pacific and wider international markets.

We have provided acoustic consultancy for venues such as the **O2 Arena, Zagreb Arena, Wembley Arena, Wembley Stadium, London Olympic Stadium, Twickenham Stadium, the Cardiff Millennium Stadium and Lansdowne Road Stadium** redevelopment.

We also provide sound management services for major shows including, Paul McCartney, Madonna, Bon Jovi, Take That, Rolling Stones, Jay Z, Coldplay and many more.

Jim Griffiths, Director of **Vanguardia**, is a Fellow of the **Institute of Acoustics (IOA)**, Chairman of the London Branch of the IOA and was awarded the IOA's Tyndall Medal award for his achievements in stadia and arena acoustics. Our senior members individually have over 25 years experience in acoustics.

CURRENT PROJECTS

We have provided acoustic design (internal acoustics and environmental noise and PAVA/sound design) for a multitude of high profile Stadia and Arena including;

Bercy Arena Paris, Twickenham Stadium, Tottenham Hotspur, Wimbledon Covered Courts, Olympic Park, MK Arena, Brighton & Hove Albion, NIA Dublin, Leeds Arena and Chongqing Expo China.

We provided acoustic, noise control and operational support for many of the **London 2012 Olympic** venues and events, and provide ongoing acoustic consultancy and PA system support for the **Wimbledon Championships**.



CONTACT DETAILS

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VMA

**VENUE MANAGEMENT ASSOCIATION
(ASIA AND PACIFIC) LIMITED**

“The VMA was established with the following objectives: to promote co-operation and assistance between persons and organisations associated with venue management; to provide education and training opportunities for the industry; to promote the use and development of venues for the economic, social and cultural benefit of the community; to assist in developing the profession of venue management at its highest level; to liaise with national and international associations involved in venue management.”

Steve Romer
Chief Executive
VMA

The **Venue Management Association (VMA)** is the peak Industry Association for venue professionals in the Asia Pacific region. We have approximately 700 members representing over 300 venues from Australia, New Zealand, the Asia Pacific region, and other parts of the world.

Our membership is geared towards Middle to Senior Managers from Entertainment Arenas, Sports Stadiums, Performing Arts Centres, Convention and Exhibition Centres, Showgrounds, Racecourses and other venue types. Our membership is very diverse and represents small regional venues through to the largest city venues within the Asia Pacific region. Collectively, we have tens of millions of guests attend events at our venues each and every year.

The VMA is dedicated to the professional development, growth and success of the venue management industry via three major membership benefits:

- ▶ The annual **Venue Industry Congress** which attracts over 350 delegates and is the single largest gathering of venue professionals in the Asia Pacific region;
- ▶ The annual **Venue Management School (VMS)** and **Graduate Institute (GI)** programs which are the preeminent professional development courses in the Asia Pacific region;
- ▶ The VMA 'After 5! Networking Functions' staged up to 20 times annually in various cities across Australia and New Zealand, and caters for intimate member gatherings from 40 to 100 members.

The VMA also represents Allied Members (suppliers to the industry) and includes third party service providers such as ticketing, food and beverage, cleaning, security, insurance, risk management, and many other disciplines.



Headquarters
Gold Coast, Australia

CURRENT PROJECTS

Various major venues and projects from **VMA** members' venues across Australia and New Zealand and other parts of the Asia Pacific Region.



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“The Zinwave system offered great flexibility and was easy to install. Its simple architecture and its multi-frequency support enabled us to integrate UEFA’s two-way radio system onto the overall DAS without affecting performance or signal output.”

Konstantyn Lubenc, CEO of Dolya & Co, Ukraine

www.zinwave.com

PEPSI CENTER, DENVER COLORADO, US

BACKGROUND

The Pepsi Center is a multipurpose sports venue and concert hall situated in Denver, Colorado and is home to the Denver Nuggets, the Colorado Avalanche and the Colorado Mammoths. It comprises a basketball court, a soccer pitch, a hockey rink, three restaurants, TV recording studios, retail outlets as well as premier conference facilities.

The site occupies a total area of more than 45 square acres and has a seating capacity of over 19,000 during sports events and 21,000 during concerts.

THE OPPORTUNITY

A public tender was issued for in-building wireless coverage at the Pepsi Center. A fundamental requirement was the ability to support all legacy commercial frequencies (CDMA, 2G, 3G) as well as LTE frequencies (700MHz, 850MHz, 1,900 MHz, 2,100 MHz), delivered over MIMO antenna systems, offering a positive experience for fans on game days.

WHY ZINWAVE?

Zinwave’s wideband DAS was selected because of its flexibility, open architecture, and its ability to support all the required frequencies on a single hardware layer.

Zinwave’s in-building distributed antenna system is the only true wideband active DAS available in the US, supporting all frequencies between 150MHz-2700MHz, regardless of protocol or modulation scheme, making it completely future-proof and offering rapid ROI.

THE SOLUTION

The installation comprises 12 x primary hubs that are connected directly to the carrier base stations, 18 secondary hubs, for service distribution and management purposes, and over 140 remote units, discretely installed throughout the arena to optimise signal-outputs during peak network usage.

Its straightforward design means that the remote units (used to optimize signal-outputs) can be easily installed throughout the arena and seamlessly integrated with existing fiber cabling infrastructures, resulting in significant cost savings.

System Highlights

- Wideband – 150MHz-2700MHz frequency range
- Lowest CAPEX and OPEX
- Best use of RF power
- Low cost fiber-to-antenna
- Fast installation
- Minimal space requirement
- High capacity Wi-Fi
- Support for public safety services, pagers & private mobile radio

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“In large stadium deployments, coverage and capacity requirements must be properly managed to deliver a positive experience for fans. Zinwave’s wideband distributed antenna system (DAS) is the most flexible platform in the market, supporting all global standards on a single hardware layer.”



Derek Paton,
President International
Zinwave

Headquarters
Cambridge, UK

CURRENT PROJECTS

Zinwave has stadium installations in the US and EMEA, including the **Pepsi Center** in Denver, Colorado and the **Olympic Stadium** in Kiev, Ukraine.

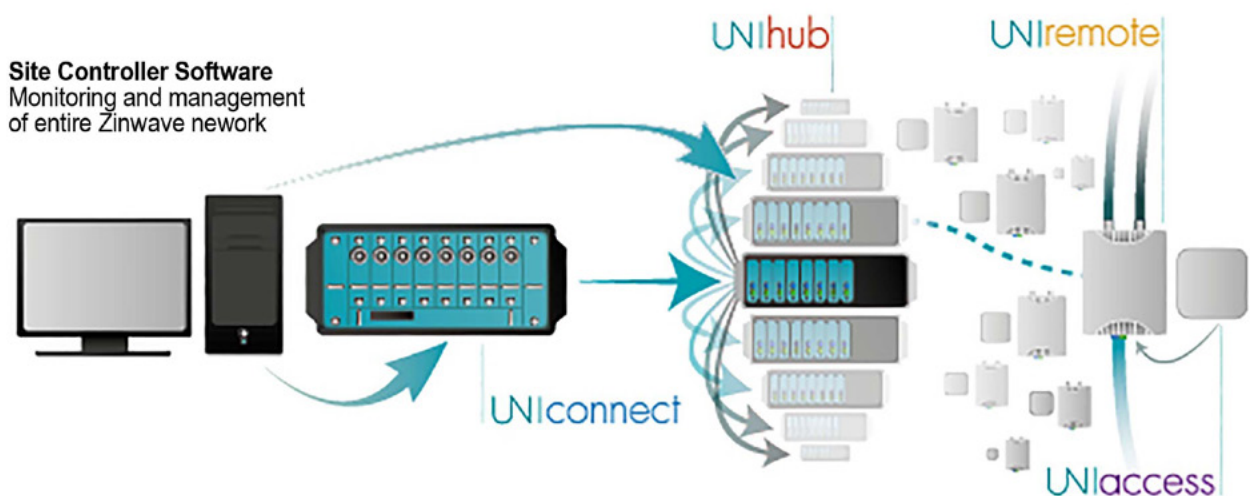


Zinwave is a global provider of a unique active wideband in-building wireless, Wi-Fi and IP coverage solution, called **UNtivity**, for large sports stadia, arenas, concert venues and convention centres.

UNtivity integrates Zinwave’s proven DAS technology with IP capabilities to deliver an integrated solution that supports any mix of commercial cellular (including MIMO), private internal radio, pagers and public safety services (TETRA) on a single hardware layer.

UNtivity comprises a 150MHz-2700MHz frequency range, making it flexible, scalable and future-proof. Its wideband capabilities allow stadium owners to overcome interference, soft handover and capacity management challenges and better handle network surges, resulting in a positive experience for fans.

Zinwave has established relationships with major operators, system integrators and neutral host providers worldwide.



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