

CES 2020: UK Company Directory

7-10 January 2020

Las Vegas, USA

INNOVATION
IS
GREAT

BRITAIN & NORTHERN IRELAND



UK company directory

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Foreword

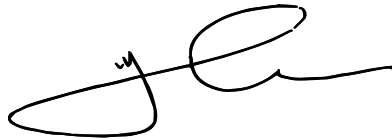
Technology in the UK is going from strength to strength. The UK's strong research base, talent pool, dynamic ecosystem, reputation for innovation and attractive business environment continue to draw international renown. The UK remains the premier destination in Europe for Venture Capital.

CES showcases the very best in global consumer technology and innovation, and 2019 saw the largest UK Ministerial-led delegation. The UK pavilion in CES' start-up zone in Eureka Park had a strong impact, with 16 UK companies showcasing their latest products.

In 2019, the CTA recognised the UK as being an innovation champion and were cited as 1 of 16 best countries (out of 61) for leading the world as having the best environment for innovation. We were listed in July 2019 as the 5th country in the Global Innovation Index.

At CES 2020, DIT's attendance at the show will promote the wide range of capability from the UK technology and automotive sectors to a global audience targeting research, innovation, key buyers and investors. We will be showcasing our strengths in tech including Smart Cities, AI & Data, 5G and Cyber Security.

I am delighted to be attending CES 2020 with yet another outstanding and diverse tech delegation from the UK. This directory provides a list of some of these UK companies and I invite you to come and meet them on the UK Pavilion in Eureka Park and across the wider show.




Dr Mike Short CBE
Chief Scientific
Adviser - Department
for International Trade

Find out more at the GREAT Britain and Northern Ireland pavilion at stand 52102 in Eureka Park, or visit www.great.gov.uk/international

About DIT

The Department for International Trade (DIT) helps businesses export, drives inward and outward investment, negotiates market access and trade deals, and champions free trade.

The range of expert services is tailored to the needs of individual businesses to maximise their international success. Companies are given advice and practical support, and staff can assist at all stages of the business planning cycle, from inception to completion.

DIT offers expertise and contacts through a network of international specialists throughout the UK, and in British Embassies and other diplomatic posts around the world.

We are an international economic department, responsible for:

- supporting and encouraging UK businesses to drive sustainable international growth;
- ensuring the UK remains a leading destination for international investment and maintains its number one position for international investment stock in Europe;
- opening markets, building a trade framework with new and existing partners which is free and fair;
- using trade and investment to underpin the government's agenda for a Global Britain and its ambitions for prosperity, stability and security worldwide.

For more information, please visit: www.great.gov.uk/international



Department for
International Trade



techUK represents the companies and technologies that are defining today the world that we will live in tomorrow.

Around 850 companies are members of techUK. Collectively they employ approximately 700,000 people, about half of all tech sector jobs in the UK.

These companies range from leading FTSE 100 companies to new innovative start-ups. The majority of our members are small and medium-sized businesses.

techUK.org | @techUK | #techUK



techUK has a clear, simple mission

Make the UK good for tech

Ensure that the UK is the best place in the world for technology companies (both domestic and foreign owned) to locate and grow.

Make tech good for the UK

Ensure that the full economic potential of technology is harnessed right across the economy.

Make tech good for people

Ensure that technology is used to improve and enhance the quality of life of all consumers and citizens.

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Advizzo

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-  @advizzo
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Company bio:

Advizzo transforms how millions of people think about their water and energy consumption through the way utilities engage with their customers.

Our platform integrates behavioural science, data analytics and beautiful design to create personalised multi-channel experiences for millions of energy and water consumers. These enhanced experiences generate real operational value to energy and water suppliers through increased customer engagement, digitalisation and satisfaction. We also help consumers better understand their usage while making engagement easy, social and rewarding.

Our London, Paris and Dubai based teams work with utility companies to engage with millions of households across Europe, Middle East, US and South America.

Specialisms:

We provide some unique consumption insights and user experience to change people's behaviour for a more sustainable future

Operating Countries:

Europe, Middle-East and North America

Air For Life UK Ltd

Stand: 51902-P

Contact:

Unit 402, Milton Keynes Business Centre
Foxhunter Drive
Milton Keynes MK14 6GD
United Kingdom



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-  jay@airforlife.net
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-  @airforlifesaver
-  www.linkedin.com/in/jay-vitale-9694aa138

Company bio:

Air For Life UK Ltd is a British Government DIT company under the Global Entrepreneur Program and Mr Alpesh Patel is it's dealmaker.

We manufacture a range of ionisers and air purifiers for commercial and domestic use to prevent disease in all public and private places such as hospitals, airports, gymnasiums, offices, shopping malls, cars and homes. We have two unique ionising technologies that destroy all indoor impurities in the air and on surfaces including bacteria, dust and viruses, that normal air purifiers cannot trap. Thus leaving 99.9% clean, fresh, safe air and surfaces.

Specialisms:

One of our technologies (AFLPCO) has been developed by NASA and then further developed by our RND department at West Texas A&M University with Professor N. Ghosh.

Operating Countries:

Thailand, Poland, Malta, Romania, Vietnam and Cambodia

AppyWay

Stand: 52102

Contact:

AppyWay
3-11 Eyre Street Hill
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United Kingdom



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 info@appyway.com

 www.appyway.com

 @appy_way

 www.linkedin.com/company/appyway

Company bio:

AppyWay exist to digitise the kerb. We're on a mission to elevate it from static cement to a dynamic source of power for local authorities and business. We've built the largest digital version of the UK's kerbside data - the most accurate, standardised and interoperable there is. This platform of data, APIs, payment solutions and tools provides functional kerbside management solutions. Local authorities can easily manage and monetise the kerbside to create better public spaces, while preparing for the AV era. Simplified compliance and lower operating costs are just the beginning of how businesses can unlock new revenue opportunities. The upside is unlimited.

Specialisms:

We specialise in kerbside data that provides practical tools and mobility solutions to efficiency, optimise assets and keep people, goods and cities moving. We also empower local governments through a GovTech platform of kerbside data and management solutions.

Operating Countries:

UK, Scandinavia

Aquark Technologies

Stand: 51733 & 51735

Contact:

University Road
Southampton
SO15 2AY
United Kingdom



 +44 (0) 7788 269 952

 AquarkTechnologies@gmail.com

Company bio:

Aquark Technologies brings to market practical solutions for quantum technology sensors for real world applications. The size and complexity of current devices makes them unsuitable for field applications, heavily restricting commercial applications of quantum devices and preventing wider adoption.

Aquark Technologies has developed miniaturised, plug-and-play hardware components for quantum systems, creating new opportunities and bringing this breakthrough technology to market.

Specialisms:

Aquark Technologies developed a miniaturised cold atom system that dramatically reduces the size of quantum technology devices. At the heart of the system is a micro-fabricated vacuum chamber which accomplishes for quantum technology what miniaturising the transistor achieved for semiconductors.

Operating Countries:

Based in United Kingdom, serving customers worldwide.

AudioScenic Limited

Stand: 51902-J

Contact:

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AUDIOSCENIC

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Company bio:

AudioScenic offers solutions for immersive 3D audio reproduction for a range of different platforms and a variety of market applications. Our designs use expandable loudspeakers arrays with varying numbers of drivers to create precisely controlled sound beams. AudioScenic works hand-in-hand with our partners and customers to provide the detailed acoustic design support required to implement different products including home cinema, gaming, simulation, VR and public space audio systems.

Specialisms:

AudioScenic is changing the way we experience audio. Using small soundbars and head tracking technologies, 3D Sound no longer requires headphones or speakers all around a room. We deliver an unrivalled audio experience for Gaming, VR and Movie audio.

Operating Countries:

AudioScenic has operations in the global consumer electronics market.

AudioTelligence

Stand: 51902-E

Contact:

Broers Building, The Hauser Forum
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-  @AudioTech
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Company bio:

AudioTelligence technology makes speech intelligible in a noisy world.

Our revolutionary audio source separation enables clear voice communication at distance for voice controlled consumer devices, even in real life noisy environments. Our software IP has been developed over 30 years by industry experts - it uses minimal resources, and delivers high quality results with very low latency and no artefacts. This means it also gives excellent results for real-time applications such as video conferencing and VoIP calls.

AudioTelligence software is available to license on industry standard ARM and Intel platforms, offering a solution that is both low-cost and high-quality.

Specialisms:

Audio source separation. AudioTelligence uses a data-driven approach called blind audio signal separation, which does not require matched microphones or trained algorithms. It offers high performance with very low latency.

Operating Countries:

UK, Asia and USA

Audoo

Stand: 51902-M

Contact:

Lombard Business Park
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United Kingdom



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-  www.audoo.com
-  @Audoohq
-  www.linkedin.com/company/audoo

Company bio:

We've created a solution which tracks actual played music, using real-time data, to help Performance Rights Organisations (PROs) digitise and streamline their processes. Meaning that together, we can ensure rights holders never miss out.

Historically, Performance Rights Organisations (PROs) have paid royalties from estimations based on popular radio play and manual data-entry. Our audio meter simply plugs in to commercial establishments such as shops, restaurants, gyms and bars and takes a digital imprint of the music played. This data is then analysed for PROs who ensure artists, composers and publishers are compensated fairly and accurately, every time their music is played.

Specialisms:

We specialise in providing metadata for music royalties. The audio captured from our device is converted into a digital fingerprint and is matched back to our music library. Data is then shared to PROs, so that they can allocate payments accurately.

Aurrigo Driverless Technology

Stand: 52102

Contact:

Unit 33, Bilton Industrial Estate,
Humber Avenue
Coventry CV3 1JL
United Kingdom



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-  @aurrigotech
-  www.linkedin.com/company/aurrigo

Company bio:

Aurrigo is changing the way people and goods travel on the first / last mile of their journey. Delivering a safe, efficient and comfortable experience whilst improving mobility for everyone and everything.

Aurrigo is the UK's leading self-driving full service supplier. Aurrigo design, manufacture and deploy a range of self-driving vehicles. Available as 4 seater pods, 13 seater shuttles and airport autonomous dollies.

The Aurrigo suite of services include consultancy, deployment set up, management, safety training and ongoing maintenance. Aurrigo Connect is our deployment management software which includes fleet management, dispatch and a customer facing app.

Specialisms:

Aurrigo is the only UK company who design, manufacture and deploy autonomous vehicles under one roof. We specialise in the passenger and cargo sector and also offer a consultancy service for the integration of AV's into smart cities and airports.

Operating Countries:

Aurrigo is a global company with its HQ based in the UK and offices in Australia, Canada and the USA. Vehicles have been sold and are operating in Australia, Canada, China, Finland, Singapore, UK, USA and Vietnam.

Avia

Stand: 51902-L

Contact:

Mighton Products
Hinxton
CB10 1RG
United Kingdom



-  +44 (0) 1223 497 097
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Company bio:

Avia is a brand of Mighton Products Ltd who, since 1983, has been at the very centre of innovation across the fenestration industry.

Originally focusing on sash windows, their product solutions have expanded to include bi-folding door systems, technical professional paint, machinery, and smart home products. In applying excellence of design and market insight, the company has created award winning product solutions such as the window fall prevention system, Angel Ventlock®, which is sold to the largest window manufacturers in the world.

Specialisms:

Secure smart locks for windows and doors. Avia products have been approved by many different regulatory bodies and have achieved many notable 'first' accreditations with such bodies as the BSI, ETSI, Sold Secure (Master Locksmiths Association) and Apple HomeKit.

Operating Countries:

UK and mainland Europe, US and North America, Asia and Oceania

Beep Digital

Stand: 52102

Contact:

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United Kingdom



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Company bio:

Beep! is a team of designers, tech heads and strategists delivering a suite of creative services specifically aimed at the tech industry. Startups, businesses and enterprises around the world benefit from their knowledge, expertise and creativity. They only work with technology companies, so yes, they talk your language, helping companies establish relevant brands and effective experiences that engage with their audience. Their process is a blend of strategic thinking and calculated delivery. Based in the UK and positioned globally, they're always on the lookout for their next project.

Specialisms:

Beep! Technically Creative™ deliver branding, UI/UX and a range of digital marketing solutions for B2C and B2B. Beep! strategically position themselves around the globe to deliver fast, integrated and agile working relationships with their clients.

Operating Countries:

Locations include Santa Clara, New York, London, Amsterdam, Zürich and their main HQ in Poole UK.

Blueskytec

Stand: 52102

Contact:

24 Barton Street
Bath
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United Kingdom



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www.blueskytec.com

Company bio:

Blueskytec is a technology start-up company that has developed unique technology to secure electronic control systems from cyber and other attacks. We are actively seeking investment and partners to accelerate the business and take our products to market in their geography and markets globally.

Blueskytec's technology secures legacy critical national infrastructure, future smart cities and vehicles and even space-based systems from cyber and other attacks using quantum-based encryption, anti-tamper and anomaly detection using AI. The approach is unique because it is implemented in hardware (FPGAs and VHDL) not software, to attain the highest levels of security and speed available.

Specialisms:

Blueskytec specialise in protecting electronic control systems from cyber and other attacks. Systems that form the fabric of society - critical national infrastructure (CNI), industrial control systems, factories and distribution facilities, smart cities and vehicle autonomy, IoT and even space.

Operating Countries:

US, Canada, Latin America, Europe and the Middle and Far East and are actively seeking other partners in their geography and markets.

Bolser

Stand: 52102

Contact:

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United Kingdom



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www.linkedin.com/company/bolser

Company bio:

We are a talented team of web and mobile marketing specialists. We love what we do and are proud of our reputation for delivering exceptional digital solutions for some of the world's biggest brands. Our spirit of innovation is relentless. We stay ahead of the curve whether that's in UI/UX design, development, testing, SEO or project management. Our clients trust us, and we spend time and energy immersing ourselves in the brand. We live and breathe it, always looking to go beyond the brief. We are agile, responsive and results focussed with an unshakeable, no nonsense delivery ethic.

Specialisms:

Clients like Microsoft, KFC, AIG, Taco Bell and Xbox say we specialize in bringing digital ideas to life, we're open and honest and care about results. We're reliable, responsive, innovative and awesome people to work with.

Operating Countries:

We deliver digital marketing work in UK and Europe, USA, Canada, and Central America

Extraordinary automotive innovation

The UK is a global centre for automotive innovation, with Europe's best collaborative automotive R&D ecosystem. A world leader in electric vehicle, battery and powertrain development, and a global hub for CAV development. We are seizing the exciting opportunities presented by the transformation of mobility.



The UK government and automotive industry have jointly invested more than

\$640m

in CAV R&D and testbeds



Government investment in EV development, infrastructure and market uptake amounts to

\$1.9bn



More than

\$950m

has been committed to full-fibre broadband and 5G

RDM Group's Autonomous Vehicle







BOOMPODS

Stand: 52102

Contact:

The Forge
The Street, Matlaske
Norwich NR11 7AQ
United Kingdom



-  +44 (0) 1263 577 722
-  david@boomPods.com
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Company bio:

Boompods was launched in 2012 with a vision of uniting visually appealing homeware design with product innovation, a love of sport, the outdoors and adventure.

Our products can be found in retailers worldwide from duty free, supermarkets, airlines, Apple stores as well as B2B sales.

Boompods headquarters is in the UK, and has operations in Hong Kong and China.

Specialisms:

Design-led Consumer Electronics. Comprehensive product range from wireless speakers and headphones including Alexa enabled devices and also powerbanks, wireless chargers and charging cables.

Operating Countries:

USA, Canada, Mexico, Columbia, Argentina, Chile, India, UAE, Saudi Arabia, Philippines, Lebanon, Japan, Germany, Austria, Ireland, Spain, Israel, Portugal, Switzerland, Hungary, Denmark and the UK

Cascoda Limited

Stand: 51902-B

Contact:

1 Venture Road
Southampton Science Park
Southampton SO16 7NP
United Kingdom



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-  info@cascoda.com
-  www.cascoda.com
-  @Cascoda
-  www.linkedin.com/company/cascoda-ltd

Company bio:

Cascoda is a fabless semiconductor company, with a revolutionary chipset for IoT. Our products use a new type of radio receiver architecture that achieves unparalleled range through greater receive sensitivity. This allows 2.4GHz IoT to be installed alongside existing WiFi infrastructure, while using the ZigBee or Thread network layers. Cascoda is demonstrating OCF over Thread, allowing PKI security over an IP-based IoT mesh network.

Specialisms:

Cascoda's products solve range, reliability, security, power & scalability issues for 2.4GHz IoT, through improved receive sensitivity, IPv6, DTLS, PKI & meshing.

Operating Countries:

Europe, East Asia

Charisma.ai

Stand: 52102

Contact:

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United Kingdom



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 guy@charisma.ai

 www.charisma.ai

 @aicharisma

 www.linkedin.com/company/charisma-ai

Company bio:

Charisma.ai powers the next generation of consumer entertainment - interactive stories that put audiences inside the narrative so they can talk to characters and change the story. The company works with TV networks and producers to extend the engagement of shows, as well as adapting a wide variety of thrillers, spy and crime stories into interactive products.

We are both commercial and creative, providing profitable business models alongside our innovative AI-powered experiences.

Specialisms:

The combination of creativity and technology under one roof. Proven success working with TV broadcasters such as Sky, BBC, Channel 4, and others.

Operating Countries:

UK, US.

Chordant Inc

Stand: 52102

Contact:

The Connectory, 160 Old Street
London
EC1V 9BW
United Kingdom



 +44 (0) 7565 963 864

 Shakil.ahmed@chordant.io

 www.chordant.io

Company bio:

Chordant is passionate about innovation and a standards-based approach that stimulates thriving global ecosystems. Solutions powered by the Chordant platform address the fundamental challenges in Smart City deployments. Like a perfect chord of musical notes, the Chordant platform brings harmony to diverse devices, data and services. We have created one of the largest Smart City deployments integrating hundreds of transport data sources into a transport data marketplace.

Our Smart City solutions have also been recognised by leading analyst firms and organisations.

Specialisms:

Chordant transforms citizen and business communities globally with solutions and services built on shared real-time data. Chordant's universal data hub and data broker enables organisations to exchange and exploit real-time information to realise new mobility services.

Department for International Trade - North of England

Stand: 51902-S

Contact:

90 Great Bridgewater Street
Manchester
M1 5JW
United Kingdom



Department for
International Trade

-  +44 (0) 7730 211 630
-  Karl.Susol@tradenw.org
-  www.great.gov.uk
-  @tradegovuk_NW

Company bio:

The UK's Department for International Trade (DIT) is the Government organisation that supports companies in the UK doing business internationally and overseas enterprises seeking to set up or expand in the UK. Its role is to help companies realise their international business potential through knowledge transfer and on-going partnership support. To support its aim to enhance the competitiveness of companies in the UK through overseas trade and investments and attract a continuing high level of quality foreign direct investment, DIT offers services to UK businesses that want to grow their business internationally, and to overseas businesses that want to locate in the UK.

Specialisms:

We help promote Northern based Tech companies showcase their products and services overseas via the Department for International Trade.

Operating Countries:

Worldwide




Elogistiks UK Ltd

Stand: 52102

Contact:

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Sparrow Way
Canterbury CT3 4JH
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-  +44 (0) 2032 904 900
-  info@the3pl.com
-  www.the3pl.com

Company bio:

Once an upstart logistics firm, proudly based halfway between London and Paris, The3PL.com now operates across several continents.

We deliver goods all over the world for emerging and major brands. Whether you're selling electronic components, units or high tech gadgetry, sporting goods or clothing, we thrive on the day to day detail of managing your stock in and getting your orders out - promptly and accurately. So if you want a fulfilment and logistics partner who can deliver to your customers on time, every time, get in touch with The3PL.com now.

Specialisms:

If you're selling your merchandise online and shipping it overseas, you need a third-party logistics (3PL) and order fulfilment specialist operating on a global level. We are The3PL.com.

Operating Countries:

USA, Canada, United Kingdom and Europe

Elvie

Stand: 44960

Contact:

Chiaro Technology Ltd
63-66 Hatton Garden
London EC1N 8LE
United Kingdom



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 jess.lee@elvie.com

 www.elvie.com

 @elvie

 www.linkedin.com/company/elvie

Company bio:

Founded in 2013, Elvie is a British brand developing smarter technology for women.

Elvie creates extraordinary products that improve women's lives. Elvie has two products on the market, the first of which, Elvie Trainer, is an award-winning Kegel trainer and app. Used to help women strengthen the pelvic floor via fun, five-minute workouts, Elvie Trainer is recommended by more than 1,000 health professionals worldwide. Their second product, Elvie Pump, is the world's first silent wearable breast pump. Elvie Pump is completely cordless and worn inside a bra, making it possible for women to pump anytime, anywhere - at home, at work or on-the-go.

Specialisms:

Our mission is to improve women's lives through smarter technology. We approach problems as women and solve them as engineers, scientists and designers, starting with a real need and innovating around it.

Fusion Processing Ltd

Stand: 52102

Contact:

Future Space
UWE North Gate
Bristol BS34 8RB
United Kingdom



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 jim.hutchinson@fusionproc.com

 www.fusionproc.com

 @fusionproc

 www.linkedin.com/company/fusion-processing

Company bio:

Fusion Processing was founded in 2012 and has become a world leader in vehicle automation technology.

Fusion's scalable CAVstar® system can be used to enable a driverless operation for any vehicle. The system comprises our CAVstar intelligent controller unit, together with multiple sensor types to enable SAE level 4 and 5 autonomous operation. The CAVstar system has been successfully deployed on cars, pods, trucks and buses.

This year Fusion are leading the CAV-Forth project which will deploy a fleet of five autonomous buses to run a full service from Fife to Edinburgh, carrying an estimated 10,000 fare paying passengers per week.

Specialisms:

Fusion specialises in autonomous driving systems. Our CAVstar product comprises of a range of sensors, plus our intelligent controller unit, to provide a complete system that can be used with any vehicle to provide level 4 and 5 autonomous drive capability.

Operating Countries:

We are UK based, but also operate more widely in Europe, North America and APAC.

Future Worlds

Stand: 51733 & 51735

Contact:

Future Worlds
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Company bio:

Future Worlds is the on-campus startup accelerator at the UK's University of Southampton.

We exist to help aspiring student and staff entrepreneurs change the world with their ideas, because we believe that if you want to make a difference, launching a start-up is one of the best ways that you can make a global impact.

Since 2015, over 300 entrepreneurs have been supported, leading to the launch of start-ups in locations from Silicon Valley to Tanzania, backed by millions of pounds of investment. We help people from all backgrounds and every academic stage.

Specialisms:

Future Worlds specialises in early stage student and staff startups from the University of Southampton and hosts talks, workshops and investor pitching opportunities. It accelerates new ventures through individualised support and its network of seasoned founders and millionaire entrepreneurs.

Operating Countries:

We are based out of South East England, but our start-ups operate worldwide from Silicon Valley to Tanzania to Japan.

FutureMotiv Ltd

Stand: 52102

Contact:

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Banbury Road,
Lighthorne, Warwickshire, CV35 0AE
United Kingdom



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-  www.rle-futuremotiv.com
-  @RLEgroup
-  www.linkedin.com/company/rle-futuremotiv-ltd

Company bio:

FutureMotiv Ltd is an engineering company that specialises in electric and hybrid vehicle systems and integration.

We provide engineering services and parts to support both prototype and vehicle programs at all stages of development including feasibility studies, design, integration and testing.

Our innovative team and passion for EVs and hybrid technologies is reflected throughout all our products and services. We provide rapid solutions for prototyping and electrical systems for new future vehicle concepts, demonstrators, show vehicles and on and off road vehicles.

Specialisms:

Using our pedigree we deliver safe, (ISO26262), and robust systems that can be used for making prototype and mass market producible systems.

Operating Countries:

EU, USA, India and China

Gordon Murray Design

Stand: 52102

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United Kingdom



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Company bio:

Gordon Murray Design is a visionary UK design and engineering company. It was established in 2007 with a focus on developing an innovative and disruptive manufacturing technology trademarked iStream®, and has since built a global reputation as one of the finest automotive design teams in the world. The company's unique and creative approach enables GMD to deliver complete vehicle programmes in a highly efficient and innovative way from concept through to production utilising iStream® and its industry leading levels of investment efficiency and weight saving.

Specialisms:

Automotive design and innovation using trademarked iStream® technology across all segments of the automotive industry. Applications include a new breakthrough autonomous vehicle platform through to ultra efficient electric vehicles and supercars.

Operating Countries:

Gordon Murray Design is a globally focused company and is currently engaged with customers from around the globe.

Great North Digital Ltd

Stand: 52102

Contact:

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Newcastle-upon-tyne
NE14DR
United Kingdom



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michael@aircards.co

www.aircards.co

@aircardsco

www.linkedin.com/company/aircards

Company bio:

We create web-based Augmented Reality campaigns which work on any smartphone, meaning no app download is required. Our focus is increasing the consumer engagement of traditional print assets, creating a new digital channel where one previously didn't exist.

Clever visual animations, 2D/3D video and special effects are deployed within the AR experience, driving consumer interaction. We manage all WebAR development, technical coordination, and cloud-based infrastructure deployment and provide a full account management service with 24/7 support. Clients receive access to an in-depth analytics dashboard to track performance, including metrics such as views, click-throughs, bounce rate and dwell time.

Specialisms:

We create web-based Augmented Reality campaigns which work on any smartphone, meaning no app download is required. Simply scan, tap and be blown away.

Operating Countries:

Europe, United States, Canada

Highly skilled talent

With truly international universities and industries, the UK attracts the finest talent from across the world.

This powerful mix of cultures and capabilities contribute to the analytical expertise, innovation and original thinking that have become hallmarks of our technology industry. Starting young, computer coding is now part of the UK curriculum, being taught to children from the age of five.

The UK has

170 
universities

**and higher education
institutes and the most
graduates annually
in Western Europe**

7

The UK has 7 out of 10 best universities in Europe

1. University of Oxford
2. University of Cambridge
3. Imperial College London
4. ETH, Zurich
5. University College London
6. London School of Economics
7. University of Edinburgh
8. LMU, Munich
9. King's College London
10. Ecole Polytechnique Federale de Lausanne

www.timeshighereducation.com/student/bestuniversities/best-universities-europe

Oxford University



Hitachi Europe Ltd

Stand: 900

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HITACHI
Inspire the Next

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Company bio:

Hitachi Europe Ltd is a social innovation company with headquarters based in Maidenhead, England.

The company's European operations employ over 550 people to deliver services and solutions to customers in several key business areas. The company's portfolio includes digital media products, industrial components and equipment, European procurement and sourcing, research and design, and information systems. The Hitachi European research and development team have laboratories in London, Manchester, Cambridge, Copenhagen, Munich and Sophia-Antipolis focusing on transport, energy & environment, automotive and industry, big data, experience design and fundamental research.

Specialisms:

The Hitachi European research and development team has a broad area of expertise ranging from spintronics and quantum computing to experienced design and environment. During the UK national project HumanDrive, Hitachi created a state-of-the-art AI system for autonomous vehicles.



HORIBA MIRA Ltd

Stand: 52102

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-  chris.reeves@horiba-mira.com
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Company bio:

HORIBA MIRA is a leading transport systems research and development company with 600+ staff, including dedicated technical teams focused on CAV, controls and electronics, safety and security. This expertise is underpinned by 40+ specialist laboratories, simulation and modelling facilities including over 100km of vehicles proving grounds. It is host to Europe's first purpose built urban driving environment (City Circuit) plus TIC-IT and PARK-IT for determining CAV and related technologies system performance. HORIBA MIRA has been at the forefront of programmes to develop solutions for CAV products and services and determining their system performance for over 15 years.

Specialisms:

Vehicle engineering and test engineering consultancy primarily focused on road vehicles. We are located on the MIRA Technology Park which is one of Europe's largest transport research and development clusters.

Humanising Autonomy

Stand: 51902-D

Contact:

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HUMANISING
AUTONOMY

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 hello@humanisingautonomy.com

 www.humanisingautonomy.com

 @HumanisingAuto

 www.linkedin.com/company/humanising-autonomy

Company bio:

Humanising Autonomy is building the global standard for human interaction with automated vehicles. The greatest barrier to automated driving in cities is the unmanageable risk of injury to vulnerable road users. Humanising Autonomy's real time intent prediction software accurately predicts the full range of vulnerable road user behaviours to improve the safety and efficiency of urban mobility systems and enable automated driving in urban environments - making automated driving at scale a reality.

Specialisms:

Humanising Autonomy provides real time human intent prediction for automated vehicles. As a critical perception application the product integrates with human driven and automated vehicle systems for real-time accident and near miss prevention.

Operating Countries:

Germany (Berlin, Hamburg, Stuttgart) US (Silicon Valley, Michigan) UK, Japan (Tokyo)

HYPERVSN

Stand: 21301

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United Kingdom

HYPERVSN

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 info@hypervsn.com

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 @HYPERVSN

 www.linkedin.com/company/kino-mo

Company bio:

London based HYPERVSN is the technology company responsible for developing the disruptive 3D holographic system that provides an immersive experience for viewers.

The company was founded in 2011 and has attracted investment from Mark Cuban among others.

HYPERVSN has been the recipient of numerous awards including Top 3 British Innovations of the Year and was also named among the World's 10 Most Impressive Technologies by Mashable and USA Today.

The proprietary HYPERVSN hardware works in conjunction with robust software / content ecosystem to provide customers with an integrated 360, high-quality business solution. Targeted business verticals include digital signage, retail, events, education, public safety and many other use cases.

Specialisms:

While previous holograms on the market were extremely expensive, involved time-consuming installations and required a dedicated space, HYPERVSN is the first ever cost-effective and scalable alternative.

Operating Countries:

We operate in 80+ countries.

Imont Technologies Limited

Stand: 51902-H

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London
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United Kingdom



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 larry@imont.io

 www.imont.io

 www.linkedin.com/company/imont

Company bio:

Imont develops software for IoT device integration using a “cloudless” technology that delivers highly scalable, distributed IoT software for smart homes, buildings, industry and cities. Our software connects devices from many manufacturers, using different communications protocols and allows these to be coordinated locally and remotely without reliance on expensive cloud services. The software is delivered as a toolkit that allows companies to bring custom IoT solutions to market rapidly and at a significant scale. Imont's security, resilience and low latency response proposition makes it ideally suited to applications where reliability is desired over poor quality connectivity infrastructure.

Specialisms:

Imont delivers highly scalable, distributed IoT software for smart homes, buildings, industry and cities. Our software connects devices from many manufacturers, using different communications protocols and allows these to be coordinated locally and remotely without reliance on expensive cloud services.

Operating Countries:

Imont provides software globally. Imont's SDK is deployed in North America, Europe and Asia and we are looking to expand in South America and the Middle East.

Impressive Applications

Stand: 51902-T

Contact:

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London
N1 7GU
United Kingdom



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 skc@impressiveapplications.com

 www.impressiveapplications.com

Company bio:

Wi Energie® by Impressive Applications is the world's first truly wireless power and data technology for Smart Cities, wearables and IoT Industry.

We have patents granted in US, UK, Europe, China, Japan and South Korea.

We have successfully completed Alpha phase development and now we are moving to Beta phase development and public trials.

Specialisms:


Wireless power and data technology for Smart Cities, Wearables and IoT Industry. We have patents granted in US, UK, Europe, China, Japan and South Korea.

Intelitrack Ltd

Stand: 51902-0

Contact:

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United Kingdom

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 ces@intelizzz.co.uk

 www.intelizzz.co.uk

 www.linkedin.com/company/intelitrack-ltd



Company bio:

Intelizzz is a new kind of tech company that helps retrieve stolen assets. Our new device and software applications have been designed and manufactured in the UK.

Intelizzz is a little black box of cutting edge technology that spends most of its time snoozing, with a light sensor alert to tell you when it is being tampered with, it is ip68 waterproof, fully sealed, encrypted and has a 3 year battery life. It has a built in global roaming sim that has no monthly costs. The device is 2G, 4G LTE and NB-IOT enabled.

Specialisms:

Intelizzz is a low cost wireless asset tracker with a built in worldwide SIM card that has no monthly subscription!

Operating Countries:


UK, looking for worldwide distributors

Intelligent Energy

Stand: 52102

Contact:

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United Kingdom

 +44 (0) 1509 271 921

 sales@intelligent-energy.com

 www.intelligent-energy.com

 @intellenergy

 www.linkedin.com/company/intelligent-energy



Company bio:

Intelligent Energy is focused on the development and manufacture of its Proton Exchange Membrane (PEM) fuel cell products for customers in the automotive, aerospace, generator, telecoms, materials handling and unmanned aerial vehicle (UAV) sectors. Intelligent Energy is built on 30 years of PEM fuel cell development. Following acquisition by Meditor Energy, part of the Meditor Group, in October 2017, Meditor has accelerated investment to facilitate further development and commercialisation of the technology and expansion of the product offering. The company is headquartered and manufactures in Loughborough, UK, with additional offices and representation in the US, Japan, China and South Korea.

Specialisms:

Intelligent Energy is a fuel cell engineering company and is the market leader in power dense, lightweight fuel cell power for unmanned aerial vehicles. Its proprietary fuel cells provide clean power at class leading power densities across its target markets.

Operating Countries:

It is headquartered in the UK, with additional operations in the US, Japan, Korea and China. We operate in these regions as well as Europe, Australia and other regions in Asia.

JoyResolve Ltd

Stand: 51902-F

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 www.joyresolve.com

 @joyresolve

 www.linkedin.com/company/joyresolve

Company bio:

JoyResolve is an award-winning lifestyle and homeware brand; redefining the concept of luxury living.

When founder Joshua Renouf launched The Barisieur, he raised over \$1.2 million via crowdfunding sites and quickly established himself as one of the world's most innovative young entrepreneurs. With customers in over 52 countries and a presence in internationally-renowned stores such as Harrods, Selfridges, Nordstrom and Urban Outfitters, the success of The Barisieur has established a global platform for Josh, creating space for his newest and most exciting projects to unite under one umbrella brand: JoyResolve.

Specialisms:

Our mission is to bring joy to people through resolve solutions. We create beautifully courageous, built to last products focused on form, function, and sustainability.

Operating Countries:

Global

Juniper Research Limited

Stand: 52102

Contact:

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 tony.crabtree@juniperresearch.com

 www.juniperresearch.com

 @juniperresearch

 www.linkedin.com/in/tonycrabtree

Company bio:

Juniper Research specialise in providing best-in-class market research and business intelligence services for the digital technology industry.

We offer off-the-shelf research on pivotal technologies and key sectors worldwide. We also provide a consulting service that includes strategic analysis, market sizing and forecasting, market surveys as well as developing promotional whitepapers for clients.

Our global clients include many of the world's leading tech brands.

Specialisms:

Our market expertise is global, and we specialise in six digital technology areas: Content & Commerce; Fintech & Payments, IoT & M2M; Smart Devices; Telecoms; Disruptive Technologies

Operating Countries:

Our primary market is North America, closely followed by Europe and the Far East.


Laduma

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Company bio:

Laduma is an award-winning immersive technology company, we use innovative solutions to create cutting-edge, interactive experiences.

Whether you want an Augmented Reality game, an immersive 360° VR Dome or an interactive forest with a roaring bear, Laduma can do it all. We create unique experiences to enhance your trade show booth and engage your customers. We've delivered imaginative projects across the world for brands like Microsoft, the NFL, Boston Scientific and many more. We have the team and capabilities to go beyond your expectations while staying within budget. Our teams are based in the UK, USA, Australia and South Africa.

Specialisms:

Laduma does it all, a one-stop shop if you like. We offer consultancy, software, hardware, event activation and data analytics across our Augmented Reality, Virtual Reality and immersive projection technologies.

Operating Countries:

We operate in the following: USA, UK, Germany, Canada, South Africa and Australia

Latent Logic

Stand: 51902-A

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-  info@latentlogic.com
-  www.latentlogic.com
-  @latent_logic
-  www.linkedin.com/company/latent-logic

Company bio:

Latent Logic was founded as a spin-out from the University of Oxford in 2017.

They use artificial intelligence to create 'smart actors' to populate simulations used to test autonomous vehicles. Latent Logic's actors are trained to imitate behaviours observed from real traffic situations, creating a realistic dynamic context to test AVs in. Unlike current rules-based traffic or actor models, which severely restrict realism due to the limitations in how many different rules can be hard-coded, Latent Logic's actors capture the subtlety, complexity, and diversity of the behaviours of human road-users.

Specialisms:

We specialise in turning cutting edge machine learning techniques into practical tools and solutions for real-world problems. We have an exceptionally strong team drawn from world-leading institutions, with close links to both academia and the automotive sector.

Operating Countries:

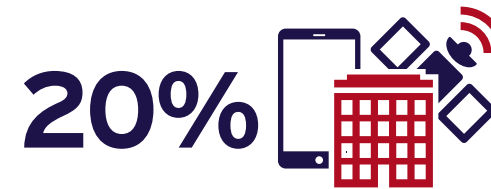
US, EU, Asia

A culture of innovation

The UK is at the forefront of a revolution. The UK's culture of innovation translates into world leading capabilities across a multitude of technology sub-sectors, from AI and IoT to Communications, Electronics and FinTech.

It's an industry that's creating thousands of new and highly-skilled roles, and simultaneously transforming the workplaces, capabilities and practices of more traditional sectors.

This culture of innovation and entrepreneurial ambition continues to propel the sector to exciting new heights. The UK is experiencing six years of continuous growth (and no signs of stopping) and new tech jobs being created 2.6 times faster than the rest of the economy. Wherever you look, it's evident the UK tech sector is really coming of age.



The number of digital tech companies born in the UK increased by an average of 20% each year between 2010 and 2015.



\$50.4bn

Digital services exports from the UK in 2016 were worth £39.1 billion, an increase of 21.8% from 2015.

1.87m



Digital tech jobs in the UK.*

*TechNation 2018

Lightwave

Stand: 52102

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Lightwave RF Technology Ltd
Innovation Campus, Faraday Wharf, Holt Street
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 adam.williams@lightwaveRF.com greig.silvester@lightwaveRF.com

 www.lightwaverf.com

 @lightwaverf

 www.linkedin.com/company/lightwaverf

Company bio:

Established in 2007, Lightwave is a pioneer brand in the IoT space.

Lightwave's clever devices offer practical and unique solutions through an innovative approach to Smart Home technology. Lightwave products can be retrofitted with no need for additional wiring and allow a world of smart possibilities, including voice control through Apple HomeKit, Amazon Alexa and Google Assistant.

Specialisms:

Lightwave provides a complete Smart Home Automation solution (lighting, power and heating) through Lightwave's proprietary wireless RF protocol.

Operating Countries:

United Kingdom and Continental Europe including the Nordics.

MEATER

Stand: 51902-R

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United Kingdom



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 matt@apptionlabs.com

 www.meater.com

 @MEATERmade

 www.linkedin.com/company/apption-labs

Company bio:

Apption Labs was founded in January 2015 by Joseph Cruz, Dauson Chang and Teemu Nivala. With more than 30 years' experience in hardware and software engineering between them, the three friends decided to take their problems into their own hands and no longer wait for someone else to solve them. This mentality is the driving force which is reflected in the corporate culture and enables progressive ideas, positive thinking and new innovations.

Specialisms:

Apption Labs is an innovative technology start-up dedicated to developing smarter consumer products connected to the Internet and controlled by mobile devices.

Operating Countries:

UK, US and Europe

Meridian Audio

Stand: 52102

Contact:

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United Kingdom



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John.b@meridian.co.uk

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@MeridianAudio

www.linkedin.com/company/meridian-audio-ltd

Company bio:

Since 1977, Meridian has been crafting innovative, elegant, high performance audio solutions. From its flagship DSP loudspeakers with integrated amplification, to its discreet and powerful range of architectural loudspeakers, Meridian delivers easy to install, high resolution audio systems for many applications.

The Meridian experience is available in the latest models from Jaguar Land Rover, thanks to a collaborative partnership between these two leaders of British innovation and engineering.

Meridian's renowned audio quality has also extended to new markets including consumer electronics through a Partnership with LG (LGE), marine and airline, ultimately transforming the way people experience sound, wherever they are.

Specialisms:

Design and manufacture of high performance consumer and automotive audio systems. Engineering Services, Technology & Brand Licensing for all audio applications.

Operating Countries:

Global

Mindtech Global

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United Kingdom



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www.mindtech.global

@MindtechG

www.linkedin.com/company/mindtech-global-limited

Company bio:

Mindtech are a technology company who are providing solutions for visual problems through classical and AI based vision processing. We are also passionate about the ethical use of AI and want to ensure our products can be used to help others achieve their moral and ethical goals for implementations of AI based solutions.

Specialisms:

Mindtech's Chameleon is a tool for generating and managing annotated synthetic data for training visual AI systems. Chameleon allows users to create unlimited amounts of GDPR free annotated data, including difficult to film corner cases.

Operating Countries:

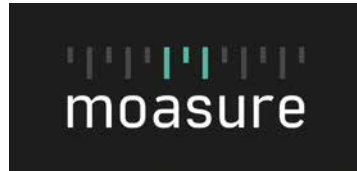
Our primary location is just outside London, where you'll find our engineering, sales and marketing teams. We engage with companies world wide.

Moasure

Stand: 51902-G

Contact:

Innovation Centre
Warwick Technology Park
Warwick CV34 6UW
United Kingdom



-  +44 (0) 1926 623 122
-  sales@moasure.com
-  www.moasure.com
-  @MoasureOfficial
-  www.linkedin.com/company/moasure

Company bio:

Moasure's patented technology uses motion sensors to measure and with its ability to draw simultaneously it is transforming how professionals across multiple industries measure property and outdoor spaces.

Moasure ONE, is the world's first motion-based measuring tool. Leveraging the latest accelerometers, gyros combined with a proprietary algorithm, Moasure ONE can measure in ways no other measuring tools can. Moasure ONE measures its own movement in three dimensions, allowing you to measure in innovative new ways from measuring the area of irregular space, through to calculating the radius of an arc.

Specialisms:

Patented measuring technology that allows professionals across multiple industries to measure property and outdoor spaces faster.

Operating Countries:

United States, United Kingdom

Moodbeam

Stand: 51902-K

Contact:

C4DI
33-38 Queen Street
Hull HU1 1UU
United Kingdom



-  +44 (0) 7944 559 170
-  christina@moodbeam.co.uk
-  www.moodbeam.co.uk
-  @MoodbeamLife
-  www.linkedin.com/company/moodbeam-limited

Company bio:

Moodbeam One is the world's first wearable focused on capturing and making sense of mood. It allows for better understanding of how we feel, creates more meaningful conversations with those we care about and helps us lead happier lives.

Launched in the UK in August 2019 Moodbeam has seen rapid adoption in the areas of workplace wellbeing, education, health and social care, as well as personal users who simply want to gain more insight into their own moods, or that of a loved one.

Moodbeam is a unique wearable and connected app with the power to change lives for the better.

Specialisms:

Enhancing and evidencing, through self reporting, wellbeing and positive mental health as an added metric within personal care, workplace wellbeing, education, health and social care.

Operating Countries:

We currently operate in the UK.

Mous

Stand: 52102

Contact:

WeWork Keltan House
115 Mare Street
London E8 4RU
United Kingdom



-  +44 (0) 7809 671 265
-  maria.sveidahl@mous.co
-  www.mous.co
-  @MousCase
-  www.linkedin.com/company/mous

Company bio:

Mous was founded in 2014 by a group of twenty-somethings with experience across design, engineering and product. Their mission was to engineer tech accessories trusted to protect and enhance everyday experiences.

Sunday Times Fast Track 100 named Mous one to watch, and Sir Richard Branson dubbed them a 'great, young brand.'

With offices in London and China, Mous has now sold over 1 million products around the world to-date, across a broad range of tech accessories, proving that you can enter a crowded market and excel if you put craftsmanship and consumer solutions at the heart of what you do.

Specialisms:

Mous has expanded their offering this year, launching their slimmest and most ergonomic case yet, Contour; and their innovative clear case, Clarity.

Operating Countries:

Mous has shipped directly to consumers globally and has recently expanded into retail across the world.

myma.io

Stand: 52102

Contact:

15 Queen Square
Leeds
LS2 8AJ
United Kingdom



-  +44 (0) 7739 109 133
-  leon@myma.io
-  www.myma.io
-  @wifiplug

Company bio:

The science behind the appliance - we detect faults on your washing machine, drier and dishwasher before they happen. We now work with Bosch, Siemens, Neff, Electrolux, AEG, Zanussi & P&G.

You can plug myma into your machine and make it just as smart as the \$1000 WiFi connected machines, for free! We can give you real time usage notifications, such as, wash started or ended and we can even notify you in the event of a fault or better, alert you before the fault happens.

Specialisms:

We specialise in connecting the end user to the manufacturer with a full turn key IoT solution. We have invested 40,000 developer hours into building a scalable and robust cloud.

Operating Countries:

UK / EU & US

Nepox Ltd

Stand: 51902-N

Contact:

St George's House
215-219 Chester Road
Manchester M15 4JE
United Kingdom



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-  james.bedford@nepox.com
-  www.nepox.com
-  @NepoxHQ
-  www.linkedin.com/company/nepox

Company bio:

Nepox provides state of the art solutions giving customers the capability to create a 3D body scan simply with their smartphone, incorporating their real world into a virtual world.

Our advanced solutions offer both the virtual fitting room and the virtual stylist to customers as a means of reducing the return rate and increasing the sales volume of online shopping. Nepox solutions have developed a way to expand the benefits of traditional brick and mortar shopping experiences into the virtual world with AR or VR possibilities.

Specialisms:

Nepox designs and develops unique solutions in the field of High Performance Computing on general purpose graphic processing enabled cloud infrastructure to deliver services such as Artificial Intelligence, Deep Learning, AR and VR - all on a customer's smartphone.

Operating Countries:

We develop our technology between our two hubs in Manchester, UK and Istanbul, Turkey.

Nottx

Stand: 52102

Contact:

1 Fore Street Avenue
London
EC2Y 9DT
United Kingdom



-  +44 (0) 7592 930 195
-  m@nottx.com
-  www.nottx.com
-  @nottx_team
-  www.linkedin.com/company/nottx

Company bio:

Nottx has pioneered anonymisation of CVs to remove bias. Our blind hiring platform is designed for employers to create a level playing field using behavioural science.

With data processing capabilities in six continents, we are well placed to help large employers on digitising their recruitment process through fair hiring practices.

We cater to a global market of £32 billion and our product is positioned as an enterprise level solution competing with Oracle, SAP and Workday.

Specialisms:

Anonymisation of CVs and a recruitment platform to facilitate end to end hiring using the principles of behavioural science. Our ability to remove bias from the recruitment process, by redacting sensitive information from user provided contents, is a differentiating factor.

Operating Countries:

United Kingdom

Nuuk

Stand: 52102

Contact:

3 Chepstow Street
Manchester
M1 5FW
United Kingdom



 nuuk@nuuk-digital.com

 www.nuuk-digital.com

 @nuukdigital

 www.linkedin.com/company/nuuk-digital

Company bio:

Nuuk supports growth of start-ups worldwide and helps maximise returns on their marketing spend. We have helped raise over \$80 million on crowdfunding campaigns and have helped scale international companies' e-commerce efforts.

Our clients have won numerous CES, Red Dot and other Hardware & Design awards and we are so lucky to be part of their growth. We have also been recognised and won several international marketing awards - Effective Digital Marketing Award for Best Integrated Campaign in 2019 and UK Agency Award for Best New Business Campaign in 2018 are just the most recent ones.

Specialisms:

Nuuk helps clients find the ideal product, market fit and launch their products online. At later stages, Nuuk support clients' growth while maximising their returns.

Operating Countries:

United States, China, Hong Kong, United Kingdom, EU, Japan, Canada

Ocushield

Stand: 51902-C

Contact:

City University, Launch Lab
Floor 4, 124 Goswell Road
London EC1V 7DP
United Kingdom



+44 (0) 3339 397 929



info@ocushield.com



www.ocushield.com



@Getocushield



www.linkedin.com/company/ocushield-ltd-

Company bio:

Ocushield is an innovative screen protector designed to protect your eyes and help you get a great night's sleep by blocking harmful blue light. The worlds only medically-rated screen protector catering for various devices from smartphones to monitors. Developed by Optometrists from City University, London, 100,000+ eyes have now been protected.

Ocushield has now extended its product range into blue-blocking glasses as well as eye friendly desk lamps to allow the consumer to control light in their environment.

Specialisms:

We're a clinician-led company, creating wellness products in the consumer electronics space. Our products have been approved by the MHRA in the UK.

Operating Countries:

UK - online and retail - EU, USA/CA, Singapore, AUS, NZ - online only

Tech hubs

While the UK technology industry has a global outlook, it's also true many tech companies are thriving due to the strength and advantages of their own local clusters.

These create different kinds of partnership, but ones where idea-sharing, concentration of skills and research, and minimal travel time are helping these dynamic 'ground-up' enterprises to thrive and grow.

From seaside towns to major industrial cities, areas of tech excellence have developed all across the UK, often down to local factors such as the presence of an academic institution or historical strengths in particular economy sectors.



On a cumulative basis since 2013, the UK has attracted

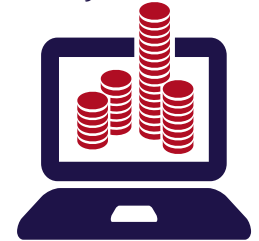
\$26bn

in total Venture Capital

In the first eight months of 2019 the UK attracted more deals than in the same period in 2018, raising

\$9.2bn

into UK tech companies across 631 deals



In the past year, the UK has produced 5 new billion-dollar companies with a cumulative value of

\$10.3bn



The UK alone has 27/84 billion-dollar companies with a cumulative value of

\$80bn

Parkopedia

Stand: 52102

Contact:

29-35 Long Lane
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United Kingdom



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-  helen.miall@parkopedia.com
-  www.en.parkopedia.com
-  www.linkedin.com/company/parkopedia

Company bio:

Parkopedia is the world's leading parking services provider, providing detailed information on over 70 million parking spaces via the web, mobile apps and in-car to millions of drivers and over 20 of the world's leading auto brands.

Parkopedia helps drivers find the closest, cheapest or available parking to their destination, pay in selected locations and navigate directly to the parking space.

Parkopedia is also a founding member of the Autonomous Valet Parking consortium, developing highly detailed parking maps and corresponding algorithms to help autonomous vehicles navigate to an open parking space, execute parking automatically and respond to "return to driver" summons.

Specialisms:

Parkopedia specialises in providing static and dynamic parking data plus aggregated transactions services to auto manufacturers, navigation and mapping companies, last mile providers and more. We also create high-definition maps for autonomous valet parking systems.

Operating Countries:

Global

PlayFusion Ltd

Stand: 52102

Contact:

Vitrum Building, Cowley Road
Cambridge
CB4 0DS
United Kingdom



-  +1 2403 836 939
-  schuyler@playfusion.com
-  www.Playfusion.com

Company bio:

Headquartered in Cambridge, the heart of innovation in the UK, PlayFusion is an independent technology company who is pioneering the future of enhanced reality entertainment.

We're founded by the talent behind award-winning Jagex, the UK's largest independent games developer. Collectively, we have over 150 game credits producing \$7 billion+ in sales & 2 billion + downloads including best-selling franchises such as Runescape, the 2nd largest MMO with 350 million players generating \$750 million + in revenue. We are partners to brands and businesses who want to create innovative, personalised, and utilitarian experiences. We pride ourselves on being hands-on with the ability to bring your wildest vision to life.

Specialisms:

Our platform, the Enhanced Reality Engine™, utilises any medium (2D print, 3D objects, audio/video recognition) to trigger AR moments that blur the physical and digital worlds, allowing the next generation of creators, storytellers, and entertainers to deliver compelling experiences.

Operating Countries:

US and EU

Plessey Semiconductors Ltd

Stand: 21861

Contact:

Plessey Semiconductors Ltd
 Tamerton Road
 Plymouth PL6 7BQ
 United Kingdom



 +44 (0) 1752 693 000

 microleds@plesseysemi.com

 www.plesseysemi.com

 @plesseysemicon

 www.linkedin.com/company/plessey-semiconductors

Company bio:

Plessey is an award-winning provider of full-field emissive microLED displays that combine very high-density RGB pixel arrays with high-performance CMOS backplanes to produce very high-brightness, low-power and high-frame-rate image sources for head-mounted displays (HMDs), and augmented reality (AR) and virtual reality (VR) systems. Plessey operates leading-edge 150mm and 200mm wafer processing facilities to undertake design, test and assembly of LED products, and a comprehensive suite of photonic characterisation and applications laboratories.

Specialisms:

Plessey develops ground-breaking GaN-on-Silicon monolithic microLED display technology for AR applications. MicroLED displays can offer unparalleled higher brightness, a better reliability, be more compact, provide better contrast ratio and be more energy efficient compared to current display technologies.

Operating Countries:

USA & Asia

Quick Energy Technologies Ltd

Stand: 41274

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 London EC2A 3AR
 United Kingdom



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 stefan@quick.energy

 www.quick.energy

 @quickecharge

 www.linkedin.com/company/quickecharge

Company bio:

Quick-E is a one-time use battery pack providing extra power to gadgets removing the need to own and carry around power banks, reducing the demand on lithium resources. We have built a more efficient and a much more convenient way of providing energy to portable electronics whilst helping the environment. All Quick-E products leave behind zero waste as they are reused to the end of their life where they then get recycled. Users can download our app to locate vendors stocking Quick-Es and the location of all the mailboxes, of which there are 116,000 in the UK alone.

Specialisms:

Quick-E stands out as a sustainable method of providing power to consumer via a share-economy business idea and reduces the demand on global resources. Quick-E's utilise the mailing system as a method to recycle the products.

Operating Countries:

Europe, North America, Japan.

Radii Devices Ltd

Stand: 51733 & 51735

Contact:

Future Worlds Accelerator
University of Southampton
Southampton SO17 1BJ
United Kingdom



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 josh@radiidevices.com

 www.radiidevices.com

 @RadiiDevices

 www.linkedin.com/company/radii-devices

Company bio:

Radii Devices develop intelligent software for faster, more personal fitting of prosthetic and orthotic devices. Our software supports the skilled clinicians who design these bespoke, assistive devices. Currently, achieving the perfect fit requires multiple, lengthy visits to the clinic. Radii Devices are solving this by providing analytical tools to predict the fit of the device before manufacture. This is all accessed over the web, enabling clinicians to use these tools anywhere.

We're a spinout from the University of Southampton based in the Future Worlds Accelerator, currently working to run clinical pilot studies of our software.

Specialisms:

Our software takes the cutting-edge in engineering design and makes it accessible within the clinic. We have the only system in the market which provides a prediction of device fit before manufacture.

Operating Countries:

UK

ROLI

Stand: 52102

Contact:

2 Glebe Road
London
E8 4BD
United Kingdom



 +44 (0) 7766 757 291

 sales@roli.com

 www.roli.com

Company bio:

ROLI is a London-based music technology company and a leading innovator in music education. It's empowering people of all backgrounds to express themselves in new ways on music creation tools that span hardware and software.

Playing the piano is a joy but although many people would love to play, traditional methods of learning can be dispiriting and there are high barriers to entry. LUMI lets anyone dive straight into playing the keyboard with songs they know, it offers a fun, interactive way to learn that scores you like a game. LUMI is portable too, so you can practice anywhere.

Specialisms:

ROLI began with reimagining the piano, the Seaboard GRAND, a performance synthesiser. Since then, ROLI has been changing the way people enjoy music. LUMI reinvented the keyboard with a companion app that lets anyone play and learn music in minutes.

Operating Countries:

Europe, North America & Canada, APAC

SLAMcore Limited

Stand: 51902-Q

Contact:

123 Buckingham Palace Road
London
SW1W 9SH
United Kingdom



owennicholson@slamcore.com



www.slamcore.com



@SLAMcoreLtd



www.linkedin.com/company/slamcore-limited

Company bio:

SLAMcore's mission is to make quality spatial AI accessible to all.

Our team of world-leading Spatial AI experts are developing SLAM algorithms that help robots and drones understand where they are and what's around them - in an affordable way. We are delivering highly reliable positioning and mapping intelligence on low power, cost-effective hardware.

Originally a spin-out from Imperial College London in 2016, we now have 20+ people and have received \$6.3 million in funding to date.

Specialisms:

Our visual-inertial positioning software provides robust, accurate and computationally efficient, localisation. It is ROS-compatible and yields high performance on low-cost hardware. You can use it as an input to your current stack, as a secondary system or on its own.

Operating Countries:

We have 10 alpha customers trialing our system, and we have interest for NRE projects from start-ups and larger companies in Asia and Europe. Overall, we are working with companies in Europe, the US and Asia.

SMMT

Stand: 52102

Contact:

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SW1P 2BN
United Kingdom



SMMT
DRIVING THE
MOTOR INDUSTRY



+44 (0) 7809 522 183



raisthorpe@smtt.co.uk



www.smtt.co.uk

Company bio:

The Society of Motor Manufacturers and Traders (SMMT) is one of the largest and most influential trade associations in the UK. Its resources, reputation and unrivalled automotive data place it at the heart of the UK automotive industry.

SMMT represents more than 800 automotive companies in the UK, providing them with a forum to voice their views on issues affecting the sector, helping to guide strategies and build positive relationships with government and regulatory authorities.

Specialisms:

Automotive trade body - SMMT represents more than 800 automotive companies in the UK. SMMT is the voice of the UK motor industry, supporting and promoting its members' interests, at home and abroad, to government, stakeholders and the media.

Operating Countries:

Belgium

Speech Graphics

Stand: 51902-I

Contact:

CodeBase, Argyle House
3 Lady Lawson Street
Edinburgh EH3 9DR
United Kingdom



 +44 (0) 1312 902 157

 hofer@speech-graphics.com

 www.speech-graphics.com

Company bio:

Speech Graphics' goal is to visualise the voice of every AI and every person in the world. Using deep learning based speech analysis honed by delivering critical technology to the most quality focused clients in the digital entertainment industry, Speech Graphics takes conversation, whether delivered by human or AI, to create a highly emotional, graphical avatar in real time, putting a face to the voice of intelligent virtual assistants. This SaaS platform will make it straightforward for developers to implement engaging conversational AI solutions across a wide spectrum of verticals, allowing businesses to offer their own emotionally aware digital assistant.

Specialisms:

Speech Graphics' unique intellectual property in machine learning, speech technology and computer graphics as well as a management team that understands how to produce enjoyable and emotionally engaging experiences give it a true edge in the virtual assistant space.

Operating Countries:

Speech Graphics operates in the United Kingdom, USA, Canada, Korea, and Japan.

SPYDERISK Ltd

Stand: 51733 & 51735

Contact:

IT Innovation Centre, Gamma House
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United Kingdom



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 stephen.phillips@spyderisk.com

 spyderisk.com

 @SPYDERISK

 www.linkedin.com/company/spyderisk

Company bio:

SPYDERISK automates risk assessment of enterprise IT, saving time and money and making compliance easy. We make risk assessment of enterprise IT systems faster and more reliable for cyber security professionals.

SPYDERISK automates four processes: It finds all the threats in a system, following the web of attack paths; it calculates risk based on the threat likelihood and business impact; it proposes mitigations, drawn from a detailed knowledgebase; and finally, it generates the reports needed for compliance certification. This is vital because right now such risk analysis is generally done manually and is therefore time-consuming and error-prone.

Specialisms:

Building on seven years of research at the University of Southampton, SPYDERISK combines a comprehensive system model with machine reasoning and a detailed knowledgebase of threats and control strategies to create an unsurpassed view of the risks to a system.

Operating Countries:

We are based in the UK but with our SaaS solution we will soon have global reach.

Swifty Scooters

Stand: 52102

Contact:

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Salford
M5 3EN
United Kingdom



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-  info@swiftyscooters.com
-  www.swiftyscooters.com
-  [@swiftyscooters](https://twitter.com/swiftyscooters)
-  www.linkedin.com/company/swifty-scooters

Company bio:

Swifty Scooters is an award-winning British scooter brand, whose mission is to inspire more people to use light electric and active transportation.

The company was founded in the UK by Royal College of Art design alumni Jason and Camilla Iftakhar. The company launched to critical acclaim in September 2011 with SwiftyONE, the world's first premium foldable kick-scooter for adults.

With design and innovation at the heart of the company, they are committed to producing great products that inspire and transform how people move. They now offer a range of connected light electric and active kick-scooters for end consumers and business fleet operators.

Specialisms:

Swifty provides premium quality products that combine elegance and utility but, most of all, Swifty provides an unbeatable ride!

Operating Countries:

UK, EU, Australia, Japan, Thailand, South Korea, Singapore

Tech Will Save Us

Stand: 52102

Contact:

Tech Will Save Us
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-  www.techwillsaveus.com
-  [@techwillsaveus](https://twitter.com/techwillsaveus)
-  www.linkedin.com/company/tech-will-save-us

Company bio:

At Tech Will Save Us we know that kids having fun and learning STEAM skills go hand in hand. That's why we've created a range of tech toys for kids aged 4-12 that combine fun activities like drawing and crafting with coding, electronics.

We've always believed that accessible and understandable technology is the future - it's not just for the coding wizards or the spaceship engineers.

Specialisms:

We design our products with STEAM education at the heart of every experience. Fitting both education curriculums and so much more than what's in the box; discover enriching projects and step-by-step tutorials online with every kit.

Operating Countries:

United States, Canada, United Kingdom, Ireland, France, Germany, Belgium, Netherlands, Spain, Sweden, Norway, Denmark, Finland, United Arab Emirates, South Africa, Hong Kong, Australia, New Zealand

Ultraleap

Stand: 3004

Contact:

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-  faye.lockier@ultraleap.com
-  www.ultraleap.com
-  @ultraleap
-  www.linkedin.com/company/ultraleap

Company bio:

Get ready to redefine interaction. The next wave of technology has arrived.

Ultraleap was formed in 2019 after two leaders in their fields, Leap Motion and Ultrahaptics, joined forces. The combined resources of the two businesses and a wide range of research-based IP are now focused on facilitating engaging, natural spatial interaction between people and machines. It is the first to offer the full vertical stack of software and hardware to enable immersive virtual touch controls for the automotive, advertising, immersive entertainment and enterprise sectors.

This fast-growth company employs over 150 people across UK, US and Asia.

Specialisms:

We provide the world's most advanced hand tracking and ground-breaking, mid-air haptics: a "virtual touch" technology that controls ultrasound waves to create the sensation of touch in mid-air.

Operating Countries:

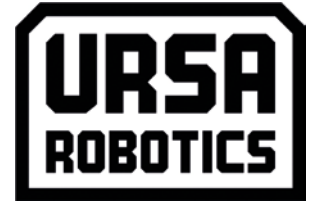
Global

Ursa Robotics

Stand: 52102

Contact:

63F Westbourne Terrace
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United Kingdom



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-  hello@ursa.ai
-  www.ursa.ai
-  @ursa_ai
-  www.linkedin.com/company/ursa-robotics

Company bio:

Ursa Robotics is building self-driving vehicles for collecting waste, since we believe that dirty work must not be done manually.

Our aim is to make the process of waste collection entirely automated. We are going to replace the existing communal bins and garbage trucks with automated containers. They are capable of working at nights and collecting garbage whenever it is most convenient for the residents and for the city traffic.

Such vehicles, being fully automated, make waste collection more efficient and significantly cut costs on waste management, most importantly, they relieve people from the necessity of doing the dirty work manually.

Specialisms:

Self-driving vehicles for collecting waste. We are replacing the existing communal bins with automated containers, an automated garbage container is an electric self-driving vehicle about the size of a small city car.

Valerann

Stand: 51902-U

Contact:

13 Hawley Crescent
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United Kingdom

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-  gabriel.jacobson@valerann.com
-  www.valerann.com
-  @VALERANN_LTD
-  www.linkedin.com/company/valerann

VALERANN
MAKING ROADS SMART



Company bio:

Valerann is a leading data and traffic management platform, supporting the intelligent transportation ecosystem.

Valerann's solution is based on the "Smart Roads System", an end-to-end IoT solution integrating innovative sensing technologies into roads, transforming them into a future-ready, connected infrastructure that provides a new and comprehensive source of real time data.

By providing exact insights about incidents and driving patterns of each single vehicle on the road, Valerann's technology is able to save lives, reduce accidents and predict congestion.

Specialisms:

Valerann's groundbreaking ML algorithms allow tracking the journey of a single vehicle on the road network, at an unparalleled resolution and in real time. This allows us to provide a new level of traffic insights and predictions.

Operating Countries:

Europe (France, Spain, UK), Israel

VividQ

Stand: 52102

Contact:

Innovation Warehouse / VividQ
1 E Poultry Ave, Farringdon
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-  tiffany.vitti@vivid-q.com
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-  @vividqltd
-  www.linkedin.com/company/vividq



VIVIDQ

Company bio:

VividQ is a deep tech software company with world-leading expertise in 3D holography.

The company was founded in 2017 by a team of expert engineers, mathematicians and computer scientists from the Universities of Cambridge, Oxford and St Andrews, who solved key technology barriers in the adoption of holographic display.

VividQ's software brings real-time Computer Generated Holography (CGH) to everyday applications. We collaborate with leading technology companies to create the most realistic, immersive and sensational experiences. Our software is used to develop fully holographic AR smart glasses, Head-Up Displays and consumer electronics, establishing VividQ as a new standard of display technology.

Specialisms:

VividQ specialism is in real-time computer generated holography. Today, pioneering companies use VividQ's software to develop fully holographic AR smart glasses, Head-Up Displays and consumer electronics.

Operating Countries:

US, Europe and Asia (particularly, Taiwan, China, Japan and Korea).






what3words

Stand: 52102

Contact:

Great Western Studios, 65 Alfred Road
what3words, Studio 301
London W2 5EU
United Kingdom



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-  hugo.lawrence@hotmail.co.uk
-  www.what3words.com
-  @what3words
-  www.linkedin.com/company/what3words

Company bio:

what3words is the simplest way to talk about any location. It has divided the world into 3m squares, each with a unique 3 word address.

Now people can refer to any precise location, such as a delivery entrance or a parking spot, using just three words. For example, ///filled.count. soap is the main entrance of what3words' London HQ.

Businesses in fields including travel, mobility and logistics use what3words to operate more efficiently and provide better customer service. It's also used by some emergency services. People use what3words to meet up, share places and enter precise destinations into ride-hailing apps.

Specialisms:

what3words addresses are more human friendly and easier to share than street addresses. They are more accurate, enabling people to specify not just a building, but a precise entrance. They also cover everywhere in the world.

Operating Countries:

what3words is used across over 170 countries around the world and is available in 37 different languages.

Zenzic

Stand: 52102

Contact:

Rocket Space
40 Islington High Street
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United Kingdom



-  +44 (0) 7904 559 327
-  info@zenzic.io
-  www.zenzic.io
-  @ZenzicUK
-  www.linkedin.com/company/zenzic

Company bio:

Zenzic (formerly Meridian) was created by government and industry to champion the connected and self-driving ecosystem and accelerate the self-driving revolution in the UK. The company drives collaboration with partners across industry, government and academia to shape a world-class Testbed UK, and to deliver a comprehensive UK Connected and Automated Mobility Roadmap to 2030.

Specialisms:

Zenzic is channelling £200 million of investment, with the goal of ensuring a safer, more inclusive and productive mobile future.

Operating Countries:

Zenzic is based in the UK but collaborates globally.

Advizzo



Reduce Water Consumption Through Behavioural and Data Sciences

THE PROBLEM - Anglian Water wanted to reduce per property consumption (PPC) in the East of England to help preserve the environment, improve customer satisfaction, and go above and beyond OFWAT's ongoing per capita consumption (PCC) guidelines.

HOW THEY SOLVED IT - Encouraged by customer response, Anglian Water reviewed how they could provide customers with ongoing insights into their water consumption moving forwards. Through a unique water consumption portal proposed by Advizzo, Newmarket residents receive 'nudges', informing them of how they are doing in terms of water consumption, rating their use against similar households. Advizzo provides these insights by analysing

the smart meter data and educating residents through behavioural science techniques, such as social norm messaging and incentives.

THE BENEFITS - With the help of Advizzo's behavioural science and data science platform, Anglian Water has reduced water consumption by 8% for Newmarket's measured customers over 12 months.

Paul Glass, Smart Metering Programme Manager at Anglian Water said: *"With Advizzo, it's a win-win. Combining Advizzo with our smart metering programme means households are inextricably connected to their water use. They can reduce their consumption and have peace of mind about their metered bill while we help protect natural resources."*

AppyWay



Kerbside Data and Smart City Parking

We have been furiously absorbing parking data from around the UK. To date we have mapped over 400 UK towns and cities. This means we have the largest set standardised UK kerbside restriction data that shows a variety of bay types up to 1m accuracy. In addition to our data, we have designed a smart city parking solution that is specifically designed to best serve the needs of drivers whilst providing a powerful kerbside management tool for local authorities.

Launched in January 2019, in the town of Harrogate, this global-first involved the installation of 2,156 smart sensors and the consolidation of digitised parking data, parking sensors, parking payments, ANPR barriers and linear pricing into a single solution.

The user experience for drivers is game-changing, allowing them to find and navigate to parking with real-time availability and start and pay for parking sessions that end automatically when they drive away.

Phil Ireland, Harrogate Borough Councillor said: *"We want to make parking easier and more convenient for people, as well as providing a parking solution that helps encourage people to visit Harrogate town centre. This is not only the first of its kind in Yorkshire but the UK as well."*

AudioTelligence



Smart TV Far Field Voice Implementation

We recently completed the implementation of our software IP running on ARM to provide far field voice support to control smart TVs in noisy environments. The implementation includes our leading Acoustic Echo Cancellation which eliminates the sounds coming from the TV to enable 'barge-in' even at the loudest volumes, and our class-leading Blind Source Separation extracts the source of interest from other background sounds to deliver reliable command and speech recognition.

Our technology delivers significant improvement over other solutions for a host of other speech-driven consumer products such as smart speakers and sound-bars.

Ken Roberts, CEO said: *"Our client's voice controlled TV worked well in a quiet room. But in noisy real life situations it had difficulty interpreting instructions. Our technology solved that problem."*

Avia



A Case in Hand From Katie Living in the UK

Katie is a working mother with two young children. The Avia Secure Smart Lock by Mighton has most certainly made life that little bit easier, simpler, and safer for Katie and many families across the world.

The Avia Secure Smart Lock system is quick and easy to install even to existing doors; quickly and effectively improving home security and personal safety. The flexibility of the Avia Secure Smart Lock makes things even easier for Katie. In order to lock the door, it's as simple as lifting up the lock. You can then unlock using a smartphone, fob, or even an old-fashioned key! Whether you're at home or using remotely, Avia ensures controlled safe access.

The Avia Secure Smart Lock also has a child safe mode, which disables the halo light on the key, making sure that it doesn't cause unwanted attention from little wandering hands.

Katie said: *"Honestly you have to have eyes in the back of your head with two children under the age of 3. Avia has made everything much easier and in the back of my mind I know the whole family is safe and secure."*

Blueskytec



Securing Space - in a New Age of Space

Blueskytec is working with the UK Space Agency and US/UK space systems companies to secure activities in space and were awarded the Innovation Award at the UK Space Conference in September 2019.

Space is congested, contested and competitive. The SpaceX Starlink project have started launching up to 40,000 satellites to provide high bandwidth global Internet services (and beam 5G to 42bn IoT devices by 2025). Orbiting the Earth today are around 2,000 satellites - we are clearly entering a new age in space. Blueskytec work with the space industry to secure high value assets that are also targets for adversaries that will deny the attacks and claim technical failures - attacks that in the future will employ AI and Quantum Computing.

Blueskytec uniquely protect against all these attacks and are applying similar technology to secure legacy critical national infrastructure and the future infrastructure of smart cities and vehicle autonomy.

Professor Martin Stierle, Center for Digital Safety & Security, Austrian Institute of Technology (AIT) said: *"Blueskytec's technology is unique, we have not seen this level of cyber security protection anywhere else. Blueskytec have taken this to another level - the electronic control systems and their protocols, the cyber-physical space."*

Cascoda Limited



Cascoda Develops the World's First OCF-over-Thread Solution

Cascoda led the development of OCF-over-Thread. In close cooperation with OCF and the Thread Group, Cascoda successfully configured OCF and Thread to work together through a Thread Border Router (an IP-Gateway based on OpenThread) and on ultra-low-power constrained IoT devices. Cascoda's hardware includes a trusted execution environment (TEE), providing secure storage for the OCF PKI key and allowing only signed applications to run on the device. This is an emerging requirement for IoT hardware.

Bruno Johnson, CEO, Cascoda said: *"I am incredibly proud of our team, which established a highly productive working relationship with key OCF members, for driving this collaboration forward and achieving success in record time."*

Charisma.ai



i-Spy

i-Spy is a highly immersive interactive installation that tests whether you could cut it as a spy. You are placed in a VR-based job interview with a Spy Master who explores your skills, and your weaknesses, through a dynamically-generated video interview.

Powered by our proprietary Ai technology platform Charisma.ai, i-Spy was produced for Broadgate in the City of London, as a co-production with StoryFutures at Royal Holloway University and the events company ProduceUK.

The project launches on 18th November 2019.

Guy Gadney, CEO of Charisma.ai said: *“i-Spy is a fearsome job interview where our system detects your emotions, your strengths and your fears to see if you could make it in the world of modern day espionage.”*

Future Worlds



Helping University Entrepreneurs Change the World with Their Ideas

For the fifth year running, Future Worlds, from the University of Southampton, is the only UK university exhibiting and launching ground breaking tech start-ups at CES, promoting over 20 University innovations, startups and spinouts.

Future Worlds is the on-campus start-up accelerator at the University of Southampton, supporting hundreds of aspiring entrepreneurs from idea to investment and launch. University start-ups promoted on the Future Worlds stand have gone on from CES to raise multi-million dollar investments and enter global markets.

This year sees three new start-ups launched live in Eureka Park: Radii Devices, SpyderRisk, and Aquark Technologies.

Radii Devices founder, Joshua Steer, exemplifies Future Worlds' support for founders: building on a PhD in prosthetics, the mentoring and acceleration helped Josh secure £120,000 seed investment in the Future Worlds Dragons' Den event, a Royal Academy of Engineering Enterprise Fellowship and now gaining initial market entry.

Joshua Steer, founder of Radii Devices said: *“What I wasn't expecting was all the support that exists for developing a start-up at the University. Future Worlds gave me the encouragement and support to believe that I could launch my own business.”*

Great North Digital Ltd



Augmented Reality Campaign with Hewlett Packard Enterprise

Using Augmented Reality in a direct mail campaign, it supports the launch of new enterprise software product HPE Primera. Aircards created an engaging Augmented Reality experience that was embedded into a printed flyer, which Hewlett Packard Enterprise then distributed to their extensive customer base. The unique design and innovative Call-to-Action buttons have driven strong customer engagement for HPE, a company that is valued at over \$30 billion and has 60,000 employees in over 150 countries worldwide.

Developed on the 8th Wall platform, hosted on AWS and in collaboration with Outbound. The experience enables the user to choose one of three exotic worldwide locations in which to be transported through the power of AR.

The Call-to-Action encourages the user to visit the new microsite for HPE Primera, the world's most intelligent storage for Mission Critical Apps.

Michael Watson, Co-Founder of Aircards said: *"It is another incredible statement of our growth as a company that Hewlett Packard Enterprise chose Aircards for the design of their Augmented Reality campaign."*

Hitachi Europe Ltd

HITACHI
Inspire the Next



Hitachi's Contribution to the UK National Project HumanDrive

As part of the UK project HumanDrive, Hitachi are leading the research and development of AI and communication work package. For this, Hitachi have established a new technical team in the UK which, together with Hitachi's existing European automotive teams, prototyped and tested AI functionalities for autonomous vehicles.

Driven from the main goal of the HumanDrive project which is to "develop natural human-like control for autonomous vehicles using machine learning" Hitachi has developed patented technology by using machine learning and data science tools. As opposed to other autonomous vehicle control systems our approach is unique in the sense that it can

be personalised based on the preferences of the passengers e.g. increase smoothness of the autonomous vehicle. This technology enables autonomous vehicles to drive in a smooth natural human-like way by utilising big data and machine learning.

Ioannis Souflas, Ph.D. Senior Researcher Hitachi European R&D Centre said: *"Accepting autonomous vehicles as a reliable and safe transportation service requires the realisation of smooth, natural, human-like vehicle control. As part of the UK national HumanDrive project we have developed pioneering AI technology to exploit the plethora of driving data generated from modern cars with the purpose of improving the comfortability and safety of future connected autonomous vehicles."*

Humanising Autonomy

HUMANISING AUTONOMY

Building the Global Standard for Human Interaction with Automated Vehicles

Humanising Autonomy is building the global standard of how autonomous systems interact with people.

Founded in 2017 by Raunaq Bose, Leslie Nooteboom and Maya Pindeus, Humanising Autonomy is setting the global standard for human-machine interactions.

The company has developed an intent prediction technology that predicts the full range of pedestrian behaviour across different environments and cities. As a critical perception technology, the software integrates with driver assistance systems, autonomous vehicle stacks, and smart infrastructure systems for real-time accident and near miss prevention, improving the safety

and efficiency of Urban Mobility Systems across cities worldwide.

The company consists of a half-female team of computer vision experts, deep learning engineers, behavioural scientists, and commercial talent. Humanising Autonomy is actively hiring, for both commercial and tech roles, to grow and accelerate towards their vision of better interactions between people and autonomous technology worldwide.

Maya Pindeus, CEO said: *“Our vision has always been to set the global standard for how autonomous systems interact with people. We are excited to rapidly scale our technology across all levels of automation and increase our deployments around the world.”*

HYPERVSN

HYPERVSN

Coca-Cola x HYPERVSN

CHALLENGE: Coca-Cola set out to strengthen brand awareness and increase sales of their dairy product - Santa Clara in Mexico.

SOLUTION: 50 HYPERVSN Solo Devices were installed in 25 branches of Mexico's biggest cinema chain, Cinepolis, and displayed at eye level at point of sale.

RESULT: 12% increase in sales - directly compared to other Cinepolis branches where the HYPERVSN devices were not installed. 90% of the 16,000 viewers stopped for at least 15 seconds - conventional advertising engagement lasts for 8 seconds on average. 88% of the 16,000 viewers showed the emotion of happiness - the AI algorithm identified a delighted facial

reaction (interpreted as emotion of happiness) from them.

OUTCOME: The results from this campaign have generated new interest from Coca-Cola and further campaigns are currently being scheduled.

HYPERVSN creates an immersive, captivating shopping experience that effectively increases the attention span of consumers

KiryI Chykeyuk, HYPERVSN Co-founder said: *“HYPERVSN aims to help businesses make the most of their visual advertising, apply pinpoint targeting and break the mold with our proprietary 3D Integrated Holographic Display System. We were thrilled to help the world's most recognisable brand reach new consumers in Mexico.”*

Imont Technologies Limited



Securing the Manufacturing Process

Manufacturing organisations are starting to look at private 5G networks as an alternative to WiFi and wired networks. These networks would not be connected to the internet, and would primarily be used for secure m2m communication within the manufacturing site only.

The next generation of smart factories (Industry 4.0) will have a large number of autonomous connected actuators and sensors, some fixed and some mobile, along with integrated video backbones for remote monitoring. Imont's software can provide a unified gateway-2-gateway protocol that allows all the gateways to speak the same language and link into a standardised suite of monitoring tools onsite and a private cloud.

Intelitrack Ltd



Subscription Free Global Tracker

Intelizz is a smart asset recovery tracking device that spends most of its time snoozing, 23 hours and 58 minutes a day. It has a light tamper alert to tell you when it is being messed with, it is waterproof, fully sealed, encrypted and has a 3 year battery life. The device is fully controlled via the app.

Intelizz is a subscription-free, global vehicle-recovery device that helps eliminate the non-recovery of stolen assets. It is a highly cost-effective UK insurance approved security solution that sleeps, virtually undetectable, until it's needed.

There are myriad tracking devices on the market, that work by transmitting a constant signal that allows real-time monitoring of assets and locations, however, it's this that makes it detectable by thieves, such trackers, even those installed by vehicle manufacturers, are simply removed or disabled by thieves.

Laduma



Laduma Uses Projection Mapping to Create Immersive Experience at HiMSS

Laduma were tasked with producing an immersive experience for Intermountain Healthcare (IHC) at HiMSS - a leading health information and technology conference featuring 45,000 professionals from 90+ countries. IHC asked Laduma to create an experience unlike any trade show booth seen before.

We created a 2000 sq. ft. booth, which used immersive projection to showcase five environments, including a nature scene with interactive animals and a life-flight helicopter rescue (one of IHC unique services) in the mountains of Utah. The towering, dynamic 3D animation was enhanced with ambisonic audio and scent to transport visitors from a busy conference hall to the heart of the natural world.

The booth proved to be one of the most popular at the show and led to Laduma getting a series of projects with Microsoft.

Cory Smith, Senior Project Manager said: *"We have always been at the forefront of bringing cutting-edge technology to the medical sector. Laduma's stunning projection is another example of Intermountain embracing innovation. Working with Laduma is continuing a tradition of working with the brightest and best in healthcare IT."*

Lightwave



Lightwave's 'Magic Button'

Imagine a device that was able to control all sockets and lights in the house with the touch of a button. Enjoy peace of mind that every light is switched off when you leave the house and that no appliances are left on with a handy button by the front door.

Wouldn't it be convenient if your light switch could control all the lamps in a room as well as the ceiling lights? See the possibilities a Smart Dimmer can offer.

How does the Magic Button work? With the Lightwave Link Plus, you can create an automation called an 'If-Do', which essentially means that 'when this happens > do this'. A Lightwave smart dimmer can be used as the 'trigger' for this automation.

Examples: Trigger: Hallway lights (switch to OFF) Actions: Living room lamp OFF + kitchen lights OFF + hallway lights OFF + bedroom bedside lamps OFF.

Mindtech Global



Solving the AI Training Data Problem

Whilst there has been rapid advances in the development of neural network topologies, frameworks and training methodologies over the last few years, the problem of obtaining sufficient, appropriate, well annotated data remains.

Without access to data, we risk limiting AI development to an elite group of companies. Mindtech have focused on solving this problem with its Chameleon product; creating virtual worlds which produce unlimited synthetic, annotated data.

This offers many advantages over the use of "real" data:
It creates data free of GDPR;
Produces pixel-perfect annotation of images;

Difficult and dangerous to film situations can be created;

Bias can be reduced by targeting specific real world situations within the virtual world.

The Chameleon tools merge and augment real world data with this synthetic data to produce a training data set that can produce higher accuracy neural networks than with real data alone and reducing reliance on real data."

Chris Longstaff, VP Product Management, Mindtech said:
"Chameleon Tools enable everyone to bring innovative solutions to market. The ability to reduce bias is an important part of our company's vision to allow for the ethical use of AI."

Moodbeam



Keeping an Emotional Connection From Afar

Inspired by a seven-year-old girl struggling to deal with a tough situation at school. Her mum, our co-founder Christina, was left wondering what it would be like to know how her daughter was feeling when she wasn't with her.

After finding nothing existed to help her maintain a connection with her daughter, Christina decided to create something. What she really wanted was to enable her daughter to log how she felt and capture it somehow so they could talk about it when their day allowed. It was whilst talking her idea through with friend and seasoned entrepreneur, Jonathan, that Christina quickly realised she had met the person who would help carry her idea forward. That day Moodbeam was born.

"For myself, I guess I use it to see when I feel up against life. If I have pressed the blue button more than once in a day I know I need to either: go to the gym, go for a walk with the dog or take time out."

myma.io



£1 Billion is Spent Annually Servicing Large Goods Appliances

Manufacturers have been in the dark about these machines since they were shipped. How often do your customers just get in touch to tell you how well the machine is working? Not too common right - only when their machine breaks. Our myma solution enables you to make better appliances and make your consumers happy by gathering big data.

Nepox Ltd



The Virtual Fitting Room

In 2018, after completing an Unmanned Aerial Vehicle (UAV) project we realised that the same technology could be applied to enhance online shopping experiences.

With a diverse list of expertise the Nepox team utilises technology in the fields of Artificial Intelligence Deep Learning, Instance Segmentation, Multi-View Stereo Reconstruction, Virtual Reality, Augmented Reality, and Camera Frame processing technology. The implementation of these technologies through the design and development of our software platforms the Human 3D Body Scan, the Virtual Fitting Room and the Virtual Stylist would dramatically reduce purchase return rates as well as increase the sales volume of online fashion shops.

The next problem was how to deliver these services to a smartphone. The Nepox team has designed cloud based software architecture to use our API service with any variety of smartphone.

Currently we are ready to release our products' beta version.

James Bedford, CEO said: *"Our mission is to improve customers quality of life by expanding the real world into a virtual one. Nepox uses expertise in computational technologies to make the real world a better place to live."*

Nuuk



Nuuk Helps Sphero Launch New Product on Kickstarter

Objective:

Generate over \$300,000 USD in pre-orders on Kickstarter.

Timeline:

18 February 2019 - 21 March 2019.

Target audience:

Early technology adopters worldwide (main focus on USA, UK, Australia, Scandinavia, Berlin, Amsterdam, Asia (Japan, Hong Kong, Singapore, Taiwan, South Korea)).

Marketing channels used:

Google Search, Google Display, YouTube, Facebook, Instagram, Email.

Results:

1. Generated over \$1 million USD in product sales (3453 individual sales transactions)

2. Generated a list of people interested in the product of over 100,000 users that clients can reuse when product is ready to be shipped (once all pre-orders are fulfilled)

3. Drove increase in brand searches online and press/influencer mentions due to the campaign for this product.

Ocushield



Eye-protecting Screen Protectors Created by an Optometrist

There's been a surge in the use of digital devices over recent years and digital users are spending an increasing number of hours staring at mobile phones and laptops. Whilst these devices prove to be invaluable for both work and pleasure, they also emit a blue light which can be harmful. Excessive exposure to blue light can contribute towards eye strain, headaches and disturbed sleep after digital device use.

Ocushield founder, Dhruvin Patel developed the products whilst studying Optometry. Using a student loan and a modest grant from City University, London, he developed his pioneering protective screen. Keen to create a versatile product, Patel fine-tuned the design to make sure

that it would be suitable for smartphones, tablets and monitors. Consumers can now use their digital device while safeguarding their health and shielding themselves from associated risks.

Dhruvin Patel, Founder said:

"I wanted consumers to enjoy using digital devices safely in the digital age, while protecting their eyes and limiting any effect on sleep from late-night use. From hundreds of testimonials, we have seen what a positive impact our products have made to consumers in over 70 countries."

Plessey Semiconductors Ltd



Changing the Future of Augmented Reality with Direct Drive Displays

Plessey's Direct-Drive displays and development kit provide OEM's and product developers with a solution to retrofit current products or develop new concept designs, around a compact, flexible and highly efficient microLED display.

Direct-Drive targets specialised applications that require symbolic content, instead of individually addressed pixelized content. Due to the small form factor of the Direct-Drive display, it can be easily integrated into smart glasses, and head-mounted displays for navigation, sport & leisure, and optical instruments.

The symbolic content is fully customizable using monochrome or fully colourised segments with pixel capabilities down to

2-micron, allowing for ultra-fine, ultra-high-resolution detail. The display is self-emissive, and it can be driven directly from an external source, requiring no backplane which simplifies the manufacturing process and improves power consumption.

Leon Baruah said: *"Targeted at specialised applications, including sports, leisure, navigation and military applications that require symbolic content, Plessey's development kit is a starter package designed to be a fast, easy and scalable platform allowing developers to explore, evaluate and interact with small-form factor microLED displays."*

Radii Devices Ltd



Fitting It Right First Time

Socket fit is the be all and end all in terms of activity and quality of life". When we first started researching prosthetics at the University of Southampton over 5 years ago, it was quotes like this which kept coming up. The prosthetic socket is a custom-made device for each prosthesis user. It acts much like a pair of shoes, if they're the wrong shape or size, it causes pain during walking. They're designed by skilled clinicians, however, the complexity of achieving the perfect fit results in multiple visits to the clinic.

At Radii Devices, we are determined to solve the challenges around socket fit. We spun out of the University to make our research available worldwide. Supporting these highly-skilled clinicians with cutting-edge software

design tools to predict the fit of the device before manufacture, towards improving the quality of life for people with amputation.

Chantel Ostler, NHS Portsmouth said: *"Getting socket fit right is a huge challenge. Increasing CAD use in the NHS could streamline manufacturing and have a real impact on patient satisfaction. However new CAD systems, such as the Radii Devices product, are required to facilitate uptake by busy prosthetic teams."*

SLAMcore Limited



Rebooting Robotics

SLAMcore is making quality spatial AI commercially available for robots and drones. Harnessing our world-leading expertise in SLAM, robotics, computer vision, sensor fusion and research and development management, we are developing accurate, computationally efficient SLAM algorithms that yield high performance on low cost hardware.

Our technology is being alpha tested by companies in Europe, the US and Asia.

Recently we worked on a project with a Japanese multinational company, enabling their robot to track its position in space without the need for markers or expensive sensors. We provide accurate position estimates using lower cost hardware, enabling reliable

autonomous behaviour. To achieve this, we tailored and integrated our kit to the company's robot platform, calibrating it accordingly. These modifications resulted in a 72% reduction in drift compared to our off-the-shelf offering. We delivered an overall drift of 0.01%, showcasing the potential for low cost, high accuracy positioning using our software.

Owen Nicholson, CEO & Founder said: *"We've done the hard work in tackling SLAM for autonomous robots, so our customers don't have to. They can license a solution that will seamlessly integrate into their designs allowing them to focus time and resources on delivering their product."*

Ultraleap



How Arrow Boosted Brand Engagement at CES Using Ultraleap's Solutions

Fortune 500 company, Arrow, used Ultraleap's solutions to bring their brand story to life at CES 2019. They combined digital signage screens with Ultraleap's hand tracking and mid-air haptic technologies to create an interactive brand experience.

Mid-air haptics is a "virtual touch" technology that uses ultrasound to create the sensation of touch in mid-air. The installation showcased their Create, Make, Manage Technology theme in a fresh, memorable way that significantly boosted brand engagement. Over the four days of CES 2019 there were around 25,000 engagements with the four DOOH screens showing the experiences Ultrahaptics developed.

Average attention time for the interactive experience with haptics was more than 80% higher than the benchmark figure for non-interactive digital signage screens. The installation contributed to a very successful CES for Arrow, with a significant increase in media coverage and social media exposure.

Valerann



Saving Lives Through Sensing and Signaling Technologies

Most countries rely on roads for population mobility: 64% of all trips made in the UK in 2016 were by cars.

While our roads have never been safer, road fatalities have stagnated at the 2010 level. To make our roads safer, we must improve our understanding of risks on the road and the way we communicate this information to road users. Traditionally, large message boards that traverse the road are used to warn drivers approaching a risk. Not only are these prohibitively expensive, their effectiveness is directly related to the quality of a report and the signs location.

Valerann has been working with Highways England to research how our sensors can use LED lighting to communicate simple warning messages to all road users anywhere on the road. Initial results were positive and demonstrate that using Valerann's sensors' lighting has massive potential in warning drivers of risks on the road.

TRADEFAIR 2020-21 PROGRAMME OF EVENTS

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JANUARY 20

Convergence India
New Delhi, India
19 - 21

FEBRUARY 20

ISE
Amsterdam,
The Netherlands
11 - 14

4YFN
Barcelona, Spain
24 - 26

MWC
Barcelona, Spain
24 - 27

MARCH 20

Ai Everything
Dubai, UAE
10 - 11

CABSAT
Dubai, UAE
31 - 2 April

APRIL 20

Future Blockchain
Summit
Dubai, UAE
7 - 8

NAB
Las Vegas, USA
19 - 22

JUNE 20

BroadcastAsia
Singapore
9 - 11

CommunicAsia
Singapore
9 - 11

ConnecTechAsia
Singapore
9 - 11

NXTAsia
Singapore
9 - 11

SEPTEMBER 20

IFA
Berlin, Germany
4 - 9

IBC
Amsterdam,
The Netherlands
11 - 15

GITEX Global
Dubai, UAE
27 - 1 October

OCTOBER 20

NAB NY
New York, USA
21 - 22

Broadcast India
Mumbai, India
29 - 31

NOVEMBER 20

SCEWC
Barcelona, Spain
17 - 19

JANUARY 21

CES
Las Vegas, USA
6 - 9



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Notes

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