

INSIGHT

A woman and a man are shown from the chest up, wearing white VR headsets. They are looking down at a detailed model of a city skyline, which includes several tall skyscrapers. The scene is overlaid with a digital network of white lines and dots, suggesting a virtual reality or augmented reality environment. The background is a bright, out-of-focus window.

BUILD Magazine 'BIM Firm of the Year'

**Waldeck in Premier
League of the UK's fastest
growing companies**

**Waldeck positioned
to capitalise on UK
infrastructure pipeline**

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Waldeck in Premier League of the UK's fastest growing companies

This week saw the publication of The Sunday Times' annual Fast Track 100, Britain's Private Companies with the fastest growing sales.

This respected league table looks for consistent growth over the past three years, requiring sales of at least £250,000 in the base year (2012/2013), sales of at least £5m in the latest year (2015/2016) and operating profit of at least £500,000 in the latest year (2015/2016) to seek out the nation's most successful business.

Over the past three years, Waldeck have seen a 236% increase in sales, and with its financial year end rapidly approaching, 2016 looks certain to continue that fantastically strong growth trend with a further 60% plus sales growth this year too. Whilst the company did not apply to the Fast Track panel for this year's list, it will be doing so next year.

The company's growth has been driven by a focus on its unique digitally based strategic project solutions offering which complement and enhance its multi-disciplinary consultancy offering for clients across a number heavy infrastructure,

industrial and major projects industries to help create certainty in time, cost, quality, safety and lifecycle efficiency of the built asset.

Commenting on the company's continued growth, Founder and Director, Paul Waldeck said: "Our growth over the past three years has certainly been something to be proud of, and our cutting-edge expertise and collaborative way of working has been at the core of our success.

"We have invested heavily in R&D, education, and of course, developed and attracted top talent which all drive this consistent trajectory and success and I would like to thank everyone in and associated with the company for their contribution.

"We are excited to be working on strategic and technical solutions on a series of industry firsts for several world class blue-chip clients in the markets of nuclear, energy from waste, logistics, industrial and manufacturing, which further gives us confidence in our ability to grow an even more successful business in the years ahead. The future is bright! The future is digital!"

Waldeck launch Bristol Centre of Excellence aboard Brunel's SS Great Britain



The evening of Thursday 10th November 2016 marked the launch of Waldeck's new Bristol Centre of Excellence, which took place on the iconic Brunel's SS Great Britain.

To celebrate the occasion and the company's achievements, high profile guests, spanning the nuclear and energy sector were invited to attend the launch, for networking, drinks and canapés.

Paul Waldeck, Founder and Director, kicked-off the evening by welcoming guests from the South West nuclear industry cluster such as EDF, Horizon, Magnox, Cavendish and other leading firms from the supply chain aboard the feat of engineering that is Brunel's Steam Ship (SS) Great Britain, before introducing the keynote speaker.

David Sutton, EDF Civils Delivery Director, delivered the keynote speech, focusing on the huge benefits that Hinkley Point C (HPC) is going to deliver, not just for the UK but internationally as well, sharing that HPC is going to contribute to the local economy in a number of ways:

- Secure 7% of the UK's energy and is going to help us close that energy gap
- 64% of the £18billion project investment will go to UK suppliers
- 25,000 job opportunities just on site alone
- £15million investment in skills

David concluded his speech by sharing: "I'm really, really pleased to support Waldeck who are one of our key local suppliers on the Hinkley Point C Project. We've been working with Waldeck for eight years now, going back to the days of West Burton CCGT, and we believe that it's absolutely fantastic for the South West that they are opening this new Bristol Centre of Excellence. We've had a team from Paul's organisation on the HPC site for the last four and a half years, providing a key role for us.

"Waldeck support us with temporary works and site engineering skills, to help keep the largest construction project in Europe running. They also provide some of the vital CAD and BIM skills that we need to keep configuration of the

construction site, in turn, helping us to ensure that we build it very safely and efficiently."

With further speeches from Nuclear Industry Association (NIA) Chief Executive, Tom Greatrex and Nuclear Institute (NI) Chief Executive, Alastair Laird, guests gained an insight in all that is happening in the nuclear industry and Waldeck's key contribution to the sector.

Tom Greatrex, Nuclear Industry Association (NIA) Chief Executive congratulated Waldeck on opening their new office, sharing that "the work that Waldeck do, the way they do it and what they've developed in terms of programme & project management focused around BIM. The intelligent way of delivering projects is massively important for Hinkley, yes, but also for a range of other projects within the South West, around the UK and in the future, for our whole industry overseas as part of a new UK plc export capability working on delivering global mega-projects", Tom continued, "Waldeck was a very different company not that very long ago, and it takes a lot of courage and tenacity to make that quantum shift, and I think something that Paul, and everybody involved should be very, very proud of because that is what we want to see – that dynamism within the sector, and I think Waldeck represent that very well."

Alastair Laird, Nuclear Institute (NI) Chief Executive, continued "It's great to see so many people supporting Waldeck's Bristol Centre of Excellence opening because this move is an example of rising to the challenge – to support building successful nuclear new build projects and then to operate them successfully for the next 60 years." Later sharing that "a passionate driver behind Waldeck is their recognised excellence in BIM. Indeed, what the Nuclear Institute want to do is take advantage of the cross industry benefits in BIM also. To do this we are setting up a Special Interest Group (SIG) and Discussion Forum about how we bring BIM and digital to the nuclear sector."

The opening of the new Bristol Centre of Excellence marks a milestone in Waldeck's history, and enables Waldeck to further expand their client base in the South West and continue to deliver multi-disciplinary engineering, BIM based digital design and high-level strategic consultancy to top blue-chip clients across the nuclear and energy sectors.

Paul said: "The launch of the Bristol office has been a great success, I am very grateful for the kind words David, Tom and Alastair have shared about Waldeck, and it has been a great pleasure to celebrate with our clients and guests. Our Bristol Centre of Excellence highlights the success we as a company have achieved over the years and will continue to achieve.

"I am delighted to hear people talk about the bright future of the nuclear industry, at what is a very exciting time for us all, not just for the South West of England, but the UK and beyond."

Waldeck sponsor EDF charity rugby match

Players from EDF Energy's Hinkley Point C project took to the field, in a head to head rugby match against contractors from the project, raising around £10,000 for Breast Cancer Now.

Sporting the Waldeck sponsored kit, staff members Andrew and Matthew joined the Hinkley Point C project team in the full contact charity match, which took place on Thursday 17th November at the Bridgewater & Albion RFC.

Cheered on by a crowd of more than 300 well-wishers, HPC Contractors claimed the victory trophy, officially sponsored by Waldeck, with the final score on the day Contractors 31 – EDF Energy NNB (Nuclear New Build) 10.

Andrew said: "We have been working with EDF Energy on the Hinkley Point C project for over four years now providing support with temporary works and site engineering skills, along with vital CAD and BIM skills, so it was great to be part of the

HPC project rugby team on the night, even if we did lose!

"Losing aside, the most important thing was the money raised on the evening, for a very worthy charity."

Co-organiser Jonathan Davies, of contract partner Kier BAM, said: "The commitment and effort shown by all involved was thoroughly commendable and the team spirit which has been created has been nothing short of amazing.

"The match itself was a hard fought battle and only opened up in the second half once the weather subsided.

"But the main thing was that a considerable amount of money was raised for Breast Cancer Now which is what the game was all about!"

Another part of the fundraising, Waldeck donated four tickets to a Bristol Rugby Club game, which were raffled off on the evening.

Other prizes included a luxury hamper, two Exeter Chiefs rugby tickets and a rugby ball signed by Sam Warburton.



Waldeck people celebrate completion of the Global Corporate Challenge

Staff at Waldeck Consulting have walked a combined distance of 30,964 miles, in a 100 day worldwide challenge.

Ten teams of seven staff from across the company's network of offices have successfully completed the Global Corporate Challenge (GCC), which encourages employees from businesses across the world to walk 10,000 steps in a day for 100 days.

The Waldeck team completed a total of 77,861,302 between September and December. They travelled over 30,000 miles and burnt over 600,000 calories in the process.

Paul Waldeck, founder and director of Waldeck said: "The Global Corporate Challenge has really caught the enthusiasm of our staff, and it has further enhanced the team spirit enjoyed throughout our network of offices. I'd like to congratulate one of the teams from our Sheffield office, who were in fact the most active team throughout the challenge.

"But more importantly, I'd like to congratulate everyone for taking part, and seeing the importance initiatives like this have on implementing our health and wellbeing strategy."

During the last 12 years, over 2 million people across 185 countries have taken part in the Global Corporate Challenge programme, which aims to improve individuals' relationship with exercise, nutrition, sleep and psychological wellbeing.



Training scheme success for first graduate cohort

Waldeck are delighted to announce that they have appointed six talented graduates from across Europe, who have successfully completed their 12 week in-house Graduate Training Scheme.

This scheme saw all graduates from Waldeck's first cohort complete the programme, which was designed to ensure graduates gain the technical knowledge and experience needed to build a career within the engineering, construction and digital design industries.

Committed to the education, training and development of its graduates, Waldeck staff helped new colleagues to kick start their career through tailored classroom sessions and on-the-job training, which were delivered across the company's national network of offices.

The training covered a number of disciplines which included:

- Building Information Modelling (BIM)
- Health and Safety
- Software (MasterSeries, Tedds and Revit)
- Risk Assessments
- Report Skills
- Structures, Earthworks and Drainage Design

Waldeck Director, Terry Parsons, who took a lead on delivering this programme said; "Waldeck's Graduate Training Programme gave our graduates an innovative start to their career in engineering, from learning exciting software and being involved in real life projects to understanding the company's standards of producing drawings, calculations and reports.

Following the successful completion of the 12-week programme I'd like to say a massive congratulations to our recent graduates for securing full time positions here at Waldeck."

Nikolais Georgopoulou, Graduate Engineer at Waldeck said: "Waldeck Consulting started as a family office and now is recognised as the UK's leading strategy, design and implementation consultancy providing BIM based project solutions, but even though the warmth of a family feeling environment hasn't faded away, I feel really grateful of being part of such a supportive and strong team like this, which has given me the opportunity to gain experience on real projects and to grow with its growth.

"I have passion and energy for my new beginning and Waldeck has provided me with this future-proof training program. I am aspired to be a useful and important member of this team. Thank you, Waldeck."

Waldeck are accredited with The Investors in Education Award for our commitment to providing education and development opportunities to students, and graduates also gain the Institute of Civil Engineering (ICE) Engineering Technician qualification upon completion of their training.

Due to its success, Waldeck are now recruiting for their next cohort of graduates, as the programme looks to continue now in early 2017.

We are also looking for fresh talent across all our disciplines, sectors and levels of seniority. If you, or someone you know is interested in a role at Waldeck, please contact Human Resources Manager, Janet Shrapel on 08450 990285 to find out more.

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Waldeck's market-leading capability, and experience on some of the UK's largest infrastructure projects, positions us uniquely to support the Government's ambitious pipeline.

Waldeck positioned to capitalise on UK infrastructure investment pipeline

Investment in infrastructure is expected to reach record levels in the coming years, with the government predicting a pipeline of projects worth £500bn.

The figure was revealed recently in the Treasury's National Infrastructure and Construction Pipeline, which gives greater certainty for investors and the supply chain over future infrastructure investment.

This is great news for Waldeck, as with our unique digital offering to the industry and vast experience across infrastructure and major projects, the Company is positioned extraordinarily well to capitalise on this.

Our experts are already engaged in a number of significant long term programmes of work, and with Building Information Modelling (BIM) central to the construction process following enforcement of the government's BIM Level 2 mandate, Waldeck are distinctively positioned to provide digital based strategic and project implementation solutions through our BIM based Enterprise Lifecycle Management (ELM) offering.

Not only does this service ensure compliance for publicly-funded projects that must be procured on a BIM compliant format, the bigger picture, beyond project capex is that ELM facilitates the safe, efficient and accessible use of a built asset

from cradle to grave throughout its entire lifecycle.

Government investment is behind about 40 percent of the pipeline after Chancellor of the Exchequer Philip Hammond announced plans for a £23 billion National Productivity Investment Fund last month. Projects include the Thames Tideway Tunnel, smart meters and upgrading the A14 highway in eastern England.

"It is clear proof that we are absolutely committed to ensure our infrastructure is fit for the future," Chief Secretary to the Treasury David Gauke said in the statement. That's "at the heart of our ambitious plans to close the UK's productivity gap and build a fair economy for everyone."

Paul Waldeck shared, "Waldeck's market-leading capability, and experience on some of the UK's largest infrastructure projects, positions us uniquely to support the Government's ambitious pipeline, including everything from transport and broadband to flood defences and housing.

Our market-leading, digitally driven, strategic and project implementation solutions are key to future-proofing solutions for clients, and clearly align with the Government's investment plans, which are aimed at making infrastructure fit for the future."



Waldeck accepted on to LLWR Business Services Marketplace

Waldeck are delighted to announce that they have been accepted as a pre-qualified supplier on to Low Level Waste Repository (LLWR) Business Services Marketplace, under the 'Engineering' category.

Under this category, Waldeck will provide digital, engineering advice, asset management, maintenance advice and Construction Design Management (CDM).

Paul Waldeck, Founder and Director, said: "We have been involved in the delivery of facilities to assist in the UK's decommissioning efforts for over many years now, so being accepted as a pre-qualified supplier on the LLWR Business Services Marketplace is a significant achievement for the company and we look forward to continue working collaboratively with the Nuclear Decommissioning Authority (NDA), Sellafield Ltd, Magnox Ltd and the National Nuclear Laboratory (NNL) in the future."

This simplified contracting route, administered by LLWR on behalf of NDA Shared Services Alliance, provides a procurement portal for a range of services, which helps to streamline the process of acquiring specialist support for organisations such as Sellafield Ltd, Magnox Ltd and the NNL.

Establishing this market place means that all nuclear Site Licensed Companies can use this portal to attain services and support from Waldeck, as one of the proven, qualified companies.

Waldeck become RoSPA members

Waldeck are pleased to announce our membership with the UK's leading safety organisation and registered charity, the Royal Society for the Prevention of Accidents (RoSPA).

This membership demonstrates our continued commitment to Health and Safety and further enhances Waldeck's strong culture, promoting safety as a top priority, both internally to our staff and externally to our clients.

RoSPA was established over 80 years ago and is actively involved in the promotion of safety and the prevention of accidents both at home and in the workplace.

Warren Monks, Head of Safety, Health, Environment and Quality (SHEQ) at Waldeck, said: "Through Waldeck's Health and Safety First initiative, we continue to succeed in promoting a positive safety culture in the workplace, whether that be on-site or in our network of offices, and we ensure that on every job we undertake the highest safety standards are met.

"Waldeck's membership provides a platform for Waldeck to continue our ongoing commitment to raising standards and to achieving future RoSPA Health and Safety Awards, which we are entering this year.

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We continue to succeed in promoting a positive safety culture in the workplace, whether that be on-site or in our network of offices.

"This membership and our proven commitment to Health and Safety through our Achilles and SMAS accreditations, successfully aligned with enhanced security measures across the supply chains for industries such as nuclear, energy, defence and rail, provides a high level of certainty, risk mitigation and assurance to our clients and raises the bar of industry standards."

Being a RoSPA member is more than just an accreditation; we have the benefit of all of RoSPA's safety expertise through dedicated consultants and our staff members benefit from specialist training covering a wide range of relevant safety issues.

For more information on our Health and Safety commitment, please contact Warren Monks, Head of SHEQ via email or by calling 08450 990285.

ROSPA
Member

First turbine components set sail to offshore wind farm

The first turbine components from Siemens' new offshore wind power facility in Hull have been dispatched.

The Sea Challenger, a jack-up ship specially designed for installing offshore wind turbines, set sail with towers, blades and nacelles from the newly-constructed harbour at Siemens' Green Port Hull site.

The components for four turbines are destined for the Dudgeon wind farm, located off the Norfolk coast, with The Sea Challenger carrying 5,000 tonnes of components and equipment.

The delivery is a major milestone for Siemens' and ABP's Green Port Hull facility and comes a month after blade production started.

WALDECK INVOLVEMENT

The Waldeck team have been involved with the development of the Port since 2010, supporting Associated British Ports (ABP) and their end client Siemens to develop a facility for the manufacture, storage and shipping of the enormous 6MW wind turbines which are amongst the world's biggest.

The turbines produced at the new facility will assist in the construction of the world's largest offshore wind farm with the capacity to power over 1 million UK homes; consisting of up to 240 turbines located 120km off the Yorkshire coast spanning 407 square kilometres with operation of the site expected in 2020 where the high voltage AC electrical system will be fed into the National Grid.

Waldeck's involvement in the project which comprised marine piling for a new quay wall, three new berths and a 60 metre jetty, 54 hectares of heavy duty pavement, new utility supplies, listed building refurbishment and the £multi-million pound relocation of existing tenants to new premises, included significant 3rd party stakeholder management and the delivery of critical infrastructure services such as:

- Project Management
- Cost Management
- Construction Management
- Risk Management
- Health and Safety Services
- Programming
- Dispute Mitigation

Finbarr Dowling, Siemens' Hull Project Director, said: "With the first loadout and shipment from our newly-constructed harbour we now have the core elements of a globally-unique offshore wind power hub all operational.

"It's exciting to see our vision to develop a world-class hub for wind power manufacturing and logistics becoming a reality, with blade production ramping up in the factory and the new harbour busy with pre-assembly and loadout work."

David Hewitt, Project Director, said: "Through the experience of the team in the delivery of major marine infrastructure, combined with Waldeck's collaborative working with the client, ABP and a number of different contractors, we have seen the successful delivery of the £300m plus overall manufacturing facility below budget and several weeks ahead of programme."

"After personally being involved in the project from the beginning, it is extremely rewarding to see the first Windturbine Installation Vessel (WIV) sail down the Humber to conclude the success of the project, and I'd like to thank the team for the hard work making this vision a reality."



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With the first loadout and shipment from our newly constructed harbour we now have the core elements of a globally-unique offshore wind power hub all operational.

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The plans for the redevelopment of the site, are part of Peel Ports' 20 year Master Plan for growth and investment in the Sheerness region.



Waldeck were influential in Peel Ports planning permission for the Thamesteel site

Peel Ports' ambitious plans to develop the former Thamesteel site were granted by Swale Borough Council recently.

The plans for the redevelopment of the site, are part of Peel Ports' 20-year Master Plan for growth and investment in the Sheerness region, which received unanimous support from the planning committee.

Waldeck have been influential in the planning permission, through our involvement on master planning, detailed site plans, planning documentation and design work on the development.

The planning application, which has been well underway since early 2016, included preliminary investigations and strategies covering heritage, environmental, earthworks and drainage.

Tim Leach, Waldeck Project Director said: "We have

been involved in the design and feasibility appraisal of the Wellmarsh site since early 2015, when the master plan was first established.

"Through 2015 and 2016, we have further developed this concept, producing budget cost estimates, full planning information for the change of use application. We have also produced the design and tender information for the A249 road bridge, which will link the site with the Port of Sheerness when construction is completed in 2017"

"So the news of the granted planning permission, working in collaboration with Peel Ports Group, means the plans can start being turned into a reality."

The project is being procured using the Official Journal of The European Union (OJEU) process with work anticipated to start in earnest in early 2017. Advertised lots include: demolition and disposal, remediation works, civils and earthworks, warehousing and rail transport works.

Waldeck engineer a low carbon future

As a commitment to the UK's progression towards a low carbon built environment by 2050, Waldeck continue to invest in the right resources and create new initiatives to encourage carbon reduction and deliver more energy efficient and sustainable results for our clients.

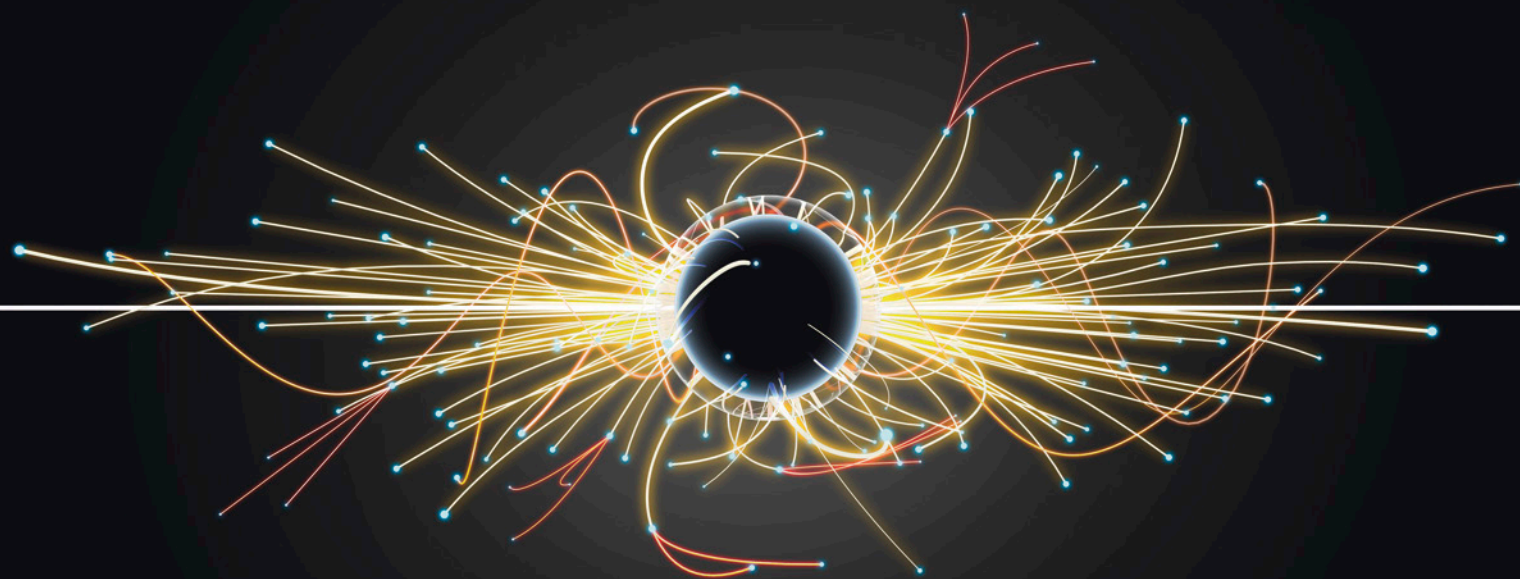
Waldeck are delighted to be delivering our 'Climate based Daylight Modelling' offering to clients, which is an essential part of the new schools design requirement. As part of this service offering we are able to calculate Daylight Autonomy (DA), Useful Daylight Illuminance (UDI) and Discomfort Glare of relevant spaces, which enables our experts to maximise on available daylight and mitigate issues caused by direct sun into a space.

To support our clients' environmental goals, Waldeck's low carbon and sustainable service offering includes:

- Environmental Impact Statements (EIAs)
- Thermal Modelling and Building Physics Analysis
- Flood Risk Assessments
- Sustainable Urban Drainage Solutions (SUDs)
- Traffic Impact Assessments (TIA)
- Transport Statements
- BREEAM, DREAM and EPC's
- Part 'L' Modelling
- Life Cycle Costing
- Waste Mitigation
- Water Management
- Zero Carbon Compliance
- Renewable Studies

At Waldeck, energy efficiency is recognised as a priority and is embedded at the core of our business strategy and with our renewable energy provisions we provide design services with innovation and creative engineering delivering simple effective solutions for our clients.





Small Modular Reactors are a golden opportunity for UK business

The future for nuclear power in the UK is brighter than it has been for a long time following the recent go-ahead for construction of the Hinkley Point C Nuclear Power Plant, an essential step on the road to nuclear renaissance.

Although Hinkley Point C is a large nuclear plant, there is also renewed interest in smaller designs for the future, such as Small Modular Reactors (SMRs).

The UK Government's interest in the potential benefits offered by SMRs was first set out in the Nuclear Industrial Strategy, published in 2013.

In particular, the government recognised that SMRs may have the potential to enable shorter deployment times, reduce the costs of nuclear power for energy consumers, and present a possible area of high value opportunity for UK industry.

More recently the Government announced that it will invest £250 million in an ambitious nuclear research and development programme, enabling the UK to be a global leader in innovative nuclear technologies, which included a competition to identify the best value small modular reactor design for the UK.

All Nuclear New Build projects must allow for decommissioning at the end of life, and the smaller size SMRs provide an important advantage when it comes to the removal of the nuclear components, a process which Waldeck are able to support delivery of through digital platforms and

the commitment to the Government Directive on Building Information Modelling (BIM).

Following our recent collaboration with Moltex Energy, developers of the Stable Salt Reactor (SSR), Waldeck recognise that tried and tested experience coupled with 21st century tools for digitalisation of the nuclear industry will be crucial to the successful design and construction of nuclear facilities, safely and to all necessary standards, and that they are delivered on time and on budget. But this is just the start - a nuclear facility is a long term asset and effective maintenance ensures it remains safe, efficient and commercially viable. Enterprise Lifecycle Management brings a digital approach from the construction phase through to technology that is used throughout the asset's lifecycle.

The development and production of SMRs in the UK affords an enormous opportunity for export worldwide and can employ automated pre-fabrication, modular construction and manufacturing using the latest digital BIM and ELM solutions and their strategic level implementation for which Waldeck are at the forefront.

See full details of Waldeck's published technical paper relating to **'Why SMRs with Supporting Fuel Cycle Facilities Represent a Golden Opportunity for UK Business'** and this can be viewed via our website www.waldeckconsulting.com

THINK PIECE

Digital engineering in 2017

The year 2016 was one of transformation and new technologies, with things changing fast in the construction sector, and following the introduction of the Government's BIM Level 2 mandate, providing the a catalyst for the industry to embrace new technology and ideas.

As digital technology continues to evolve, there will be many important trends in construction technologies, especially in 2017, but paying particularly attention to; BIM, teamed with virtual and augmented reality, drones and mobile technology, Waldeck see the construction industry moving into an exciting new era.

BIM LEVEL 3

The Government 2025 target for BIM Level 3 is another complexity which the industry has to now embrace. The strategy is due for implementation by 2025, with the BIM Task Group outlining a five-year preparation period (2016-20) and a five-year implementation period (2021-25).

The government's strategic plan for BIM Level 3 sets out a broad vision for "Digital Built Britain", where the challenge is broken down further into Stages A, B, C and D, and also split into commercial, technical and cultural streams.

Initial government targets for 2017-20 are to "increase maturity of BIM Level 2 to a point that supports development of BIM Level 3 with a view to government adoption at a later date". The targets mean we're now attempting to transport the construction industry away from being followers and moving them to innovative front-runners at the frontline of technology, pioneering its adoption and implementation to drive further efficiencies and cost savings.

The industry as a whole has fought harder than imagined in a bid to make the Level 2 mandate a reality, these very efforts will fail in comparison to many the enormity of the task that is Level 3.

However, as an early adopter of BIM, and already operating at such levels, Waldeck realise its many benefits and will still be constantly striving to better ourselves as a business and services to our clients through the same proactive and innovative approach that has seen the business grow and continue to be at the forefront of digitally engineered solutions.

DRONES AND DIGITAL CAPTURE

As the construction industry begins to see the wealth of commercial opportunities and benefits drones have on the future of building projects, new Unmanned Aerial Vehicle (UAV) technology is becoming more widely used across the sector.

Utilising drones will deliver productive results that include increased speed, improved safety, a wealth of data and clear documentation.

New for 2017, through our extensive investment in R&D during 2016, we have developed a game changing new site monitoring product and risk management solution for the construction industry called: Digital Surveillance to BIM. This efficient combination of proven digital technologies and new capabilities leveraged through flying UAV's autonomously, laser scanning and photogrammetry has been developed in conjunction with our R&D partners, the University of Huddersfield.

VIRTUAL AND AUGMENTED REALITY

Virtual Reality (VR) has been around for a few years now, but could 2017 be the year it really takes off – not just for games and experiences but as a practical tool for construction and building maintenance.





As a company embracing the advances in digital technology, we first showcased our Augmented Reality capability at last years' Multimodal logistics show sharing with delegates wide tailed animations at the swipe of a smartphone, but this year we will be delving deeper into the virtual world, by allowing delegates to step inside a digital model, showing how we design, co-ordinate, interrogate and showcase our client's federated digital models. Being 'inside' a digital model means our clients can see things first hand, and we are able to make changes in real-time, taking our decision making and design revisions to the next level.

MOBILE TECHNOLOGY AND THE INTERNET OF THINGS (IOT)

There is no doubt about it, the future is mobile, and as mobile technology continues to advance and improve, there becomes an increased need for more reliable and robust digital connectivity.

With that said, the Government have been urged to take action on the rollout of the 5G infrastructure, ensuring a more reliable mobile connection, putting the UK at the forefront of this emerging technology, which will be critical to the growth of our economy.

As the industry continues to move away from the more traditional paper-based drawings and CAD to high-resolution digital modelling, the use of mobile technology is dramatically important, meaning the requirement of consistent digital networks supporting the digital changes, for example the Internet of Things (IoT), will continue to evolve into 2017 and beyond.

The IoT has been labelled as the next 'Industrial Revolution' because of the way people live, work, entertain and travel, as well as how Governments and businesses interact with the world.

Embracing these digital advances, Waldeck are rapidly progressing with a niche BIM to Field cloud-based service, combining mobile field technologies for on-site use with cloud-based collaboration and reporting.

CONCLUSION

The development of BIM, digital and immersive technologies are transforming the way we work, enabling a more advanced, technology-driven and diverse industry.

With that said, as the shift to digital becomes bigger than ever in 2017, Waldeck continue to be ahead of the curve, embracing the latest disruptive innovations and continually looking for leaner and more efficient ways of working, increasing overall client satisfaction.

These advances are an opportunity to drive innovation that are critical to the future of our built environment and embracing the new technological trends in 2017 will provide a platform for more exciting things to come in the world of digital and help us create certainty of outcome for our clients with their capital investments.

BUILD Magazine BIM Firm of the Year for Waldeck



Following last years' accolade of 'Most Innovative Designers', Waldeck have been recognised by BUILD Magazine as part of their annual signature awards programme.

Waldeck have been awarded BIM Firm of the Year, in recognition of their fully integrated BIM based Enterprise Lifecycle Management (ELM) across all facets of BIM deliverables and services, encompassing open BIM (Industry Foundation Classes), Uni-class, Construction Operation Building information exchange (COBie) and Government Soft Landings (GSL) aligned with 3D, 4D, 5D, 6D and 7D solutions.

From the outset, Waldeck had the foresight to adopt and promote digitally engineered project solutions, even before it was referred to as BIM. The core of this concept is the development of an intelligent digital model to provide end-to-end improved project delivery, data efficiency and added value to the client.

Paul Waldeck, founder and director of Waldeck, said: "Digital is at the core of everything we do at Waldeck, which is showcased through our market-leading use of BIM and its best-practice standards, processes and protocols. The interfacing of BIM and traditional Product Lifecycle Management allows us to offer a 7D cradle to grave solution to clients called 'Enterprise Lifecycle Management', which adds value, creates efficiencies and reduces risk right from the very beginning of project conceptual and feasibility stages."

As the mainstream of the construction industry continues the transition from traditional paper-based and CAD drawings to high-resolution digital modelling, and beyond, Waldeck are continually looking for better ways of doing things, transforming both the technologies we use and the cutting-edge blended software solutions we create for our clients to deliver the necessary results.

Through our continued investment in R&D, training and innovation, we have developed a game changing new site monitoring product and risk management solution for the construction industry called: Digital Surveillance to BIM.

This efficient combination of proven digital technologies and new capabilities leveraged through flying UAV's autonomously, laser scanning and photogrammetry has been developed in conjunction with our R&D partners, the University of Huddersfield.

We are continuing this collaboration into 2017, where we will be looking to further develop our research and capability on the subject of reality computing for construction, which leads us onto our investment in Virtual Reality (VR) and Augmented Reality (AR).

We first showcased our AR capability at last years' Multimodal logistics show sharing with delegates wide tailed animations at the swipe of a smartphone, but this year we will be delving deeper into the virtual world, by allowing delegates to step inside a digital model, showing how we design, co-ordinate, interrogate and showcase our client's federated digital models. Being 'inside' a digital model of their proposed asset means our clients can see things first hand, and we are able to make changes in real-time, taking our decision making and design revisions to the next level.

As we continue to be ahead of the curve, we are also rapidly progressing with a niche BIM to Field cloud-based service, combining mobile field technologies for on-site use with cloud-based collaboration and reporting. Embracing and blending the latest disruptive innovations and continually looking for leaner and more efficient ways, we see these digital advances as an enhancement to our way of working and provides important opportunities to drive forward innovation that are critical to the future of not just the company but the industry as a whole.

Paul added: "We are excited to be working on strategic and technical solutions on a series of industry firsts for several world class blue-chip clients in the markets of nuclear, energy from waste, logistics, industrial and manufacturing. We are also seeing interest in the potential for full 8D interactive enterprise business solutions with major projects customers in Oil & Gas and Airports too which further gives us confidence in our ability to grow an even more successful business in the years ahead. Fundamentally, the future is bright... the future is digital."



Waldeck to showcase digital offering at 2017 Multimodal



Following the success of previous years, Waldeck are pleased to be returning to Multimodal, the UK and Ireland's premier freight transport, logistics and supply chain management event, for 2017.

Our Logistics, Ports, Transportation and Rail team will be attending the show from 4-6 April 2017, and will be available at stand **4057** to meet throughout the event.

At last years' show, we showcased our cutting-edge augmented reality software, sharing with delegates wide tailed animations of Peel Ports complex logistics facilities at the swipe of a smartphone. This year, we will be delving deeper into the virtual world, demonstrating how we design, co-ordinate, interrogate and showcase our client's federated digital models to strike towards a 'Smart Port' solution.

Join us and take a step inside our Building Information Modelling (BIM) models and walk through our virtual master plans with our virtual reality (VR) headsets.

Multimodal hosts the key decision makers across the supply chain, manufacturing, logistics and shipping industries.

We look forward to seeing you there!

Waldeck win two CIBSE Yorkshire Awards

Waldeck, market-leaders in digital strategy and solutions, were awarded 'Building Performance Training Programme' and 'Commercial and Industry Project of the Year' at the CIBSE Yorkshire Awards which were held at The Royal Armouries, Leeds on the 18th November.

The company's in-house training initiative; Pinnacle Series claimed the award for Building Performance Training Programme of the Year.

Another recognition on the evening was their work on the major modernisation of Bentley Works, which scooped the prize for Commercial and Industry Project of the Year.

Andy Inkson, Sheffield Business Unit Director, said: "Being shortlisted for both categories is an honour and a pleasure and to be able to say we came out on top, and picked up both awards on the evening is tremendous.

"It is thanks to the hard work of the team throughout Waldeck, that we have been able to win these awards, and I can't recognise the teams' efforts enough."

Pinnacle Series is a productivity solution, and was introduced to grow talent and share knowledge across the company, through on-the-job training, in conjunction with our dedicated in-house BIM Academy.

The Bentley Works modernisation involved the construction of a new purpose build engineering manufacturing workshop facility and new build office accommodation, where Waldeck showcased their BIM expertise and capabilities, and by enabling the project to be awarded the highest BREEAM (Building Research Establishment Environmental Assessment Method) score of 'outstanding'.

CIBSE Yorkshire Chairman, Simon Owen said "I wanted to create an event to celebrate all aspects of building services in the region; to highlight M&E to other disciplines and the wider community. The dinner was a great social occasion, but the Awards add value to entrants, sponsors and judges by giving them chance to engage and set themselves apart. Entering gives companies a different way to recognise their teams' achievements and distinguish themselves from others when tendering for projects and recruiting staff."

The awards, which took place for the first time this year, hosted over 300 guests including manufacturers, design consultancies, main contractors, services contractors, project managers, universities and architects from across the region.



GENERAL ENQUIRIES

Contact: Charlotte Watson
enquiries@waldeckconsulting.com
Telephone: 08450 990285

BIM AND PROJECT ENQUIRIES

Contact: Andrew Dent
andrew.dent@waldeckconsulting.com
Telephone: 08450 990285

SALES ENQUIRIES / PR & MEDIA

Contact: Hannah Wharton
hannah.wharton@waldeckconsulting.com
Telephone: 01529 298055

CAREER OPPORTUNITIES

Contact: Janet Shrapel
enquiries@waldeckconsulting.com
Telephone: 08450 990285

www.waldeckconsulting.com

