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**SUMMARY**

With an extensive 24-year tenure in the infrastructure sector, I have played pivotal roles in spearheading global capital projects, demonstrating a strong focus on leadership, management, and business development. Over the last 18 years, my focus has been on information management and digital transformation, a journey that commenced with early engagement in the UK Government BIM task group, where I played a pivotal role in shaping the standards and methodologies essential for driving industry-wide digital transformation.

A cornerstone of my professional approach lies in cultivating a robust cross-sector industry network, establishing meaningful connections at all levels across the globe. In 2021/2022, I took a leadership role in the Isle of Wight resilience demonstrator for the National Digital Twin program for the UK Government Department for Business and Trade, delivering the Integrated Architecture, which sets the stage for seamless interaction and interoperability among all Digital Twins on a national scale, empowering strategic infrastructure planning and resilience. Simultaneously, I lead the NDTP education partnership, a visionary effort aimed at equipping every school student to become a digital information native.

In 2012, I was entrusted with the leadership of the Crossrail Information Management Academy and the BIM/Digital Advancement program. This experience allowed me to identify critical gaps in the national strategy, prompting the establishment and direction of initiatives such as the Infrastructure Asset Data Dictionary for the UK (IADD4UK) and the BIM for Construction Insurance working group.

Since 2017, my executive leadership has evolved into a focus on uncovering the value proposition of digital solutions. I specialize in providing a clear line of sight from executive strategy, through finance, smart contracts, down to individual pieces of information. This strategic approach has proven instrumental in reducing waste in IT, BIM tasks, and legal complexities.

Recent achievements include pioneering methods for crafting information requirements based on outcomes, addressing Systems/Functions/Project/Business information needs. This ensures a seamless line of sight from strategic policy to granular data elements. Additionally, I introduced a novel methodology employing CARVER (infrastructure resilience) analysis to assess and define the security classification of assets and their associated information.

A prolific author with two books and numerous guides on digital intricacies, I have been a director of COMIT, an industry innovations program dedicated to enhancing productivity through technology, since 2007.

Beyond the professional realm, I serve as an army reserve Officer in the Royal Engineers, leading a specialized team focused on Humanitarian Aid and Disaster Relief (HADR) for critical national infrastructure and innovative solutions. My multifaceted experience underscores my commitment to executive leadership, effective management, business development, and ongoing thought leadership in the ever-evolving landscape of infrastructure and digital innovation

**Skills**

* Executive director
* Infrastructure resilience consultant
* Leadership
* Business and process analyst
* BIM and Digital Twins thought leader
* Workshop Facilitator
* Innovator
* Team Management
* Communicator
* Trainer and content writer

**Awards**

* Salvio Lerner Award for Leadership (2012)
* Fiatech STAR award for Superior Technical Achievement Recognition Award (2014)
* Founders award Digital Leadership (2016)
* BIM Show Live award for BIM Enabler/ Consultant of the Year (2019)

**EMPLOYMENT HISTORY**

**Nec Aspera Terrent Digital** 2021 – Ongoing (Part time)

Consulting on all aspects of digital delivery, ranging from information requirements definition, critical national infrastructure (CNI) resilience CARVER assessments, and digital document audits and advising on digital strategies for governments, militaries, major projects, organisations, and SME’s. Utilising my wide experience in various industries and sectors, I deliver focused consulting aimed at helping organisations get value from their digital aspirations. I have delivered Information Requirements packages for Assets, Projects, and Systems as well as documentation and security classification methodology.

**Bentley Systems** 2001 – ongoing (Part time since 2019)

Success Advisory Industry Liaison (Part time)

Support the success advisory team through engagement with industry creating an environment of trust, knowledge share and innovation. Ensuring that the Success Advisory team have access to industry initiatives, organisations, thinking and future aspirations.

Being the key link between industry groups who are setting new standards, methods and processes and the advisors who are helping companies to improve their business success.

BIM Advancement Academies Director

As the BIM Advancement Academies Director for Bentley systems, I deliver the interface between owners, operator, maintainers, contractors and their supply chains. Using my skills as a presenter, analyst, facilitator and relationship developer I am tasked with upskilling the construction industry to meet the 2016 government BIM mandate.

Writing and delivering courses all aimed at delivering the VALUE of BIM/ Digital Twins.

This is not restricted to the UK and I have delivered briefings and advice to owners, operators, maintainers, contractors, consultants, suppliers, manufacturers and governments from most countries around the world reaching well over ten thousand individuals over the last 8 years.

Whilst delivering this role, I have become more a psychologist because in most cases it is people and culture that are the problem, rather than process and technology.

**UK Government BIM Taskgroup/ National Digital Twin Programme** 2012 – ongoing

As part of the UK government’s BIM Taskgroup I was involved in bringing industry groups together to define asset metadata standards and interoperable information exchanges. I was part of the UK BIM Alliance leadership board and ran the Infrastructure Asset Data Dictionary for the UK initiative which was working with the cabinet office and UK Infrastructure Projects Authority to deliver common Asset Information Requirements.

Most recently this has involved defining and leading the NDTP Isle of Wight Resilience Demonstrator delivering better UK Infrastructure strategy, disaster recovery, sustainability, and the support of society.

**COMIT** 2005 – ongoing

**Non-Executive Director**

COMIT was set up in 2003 with funding from the DTI to investigate mobile IT within the construction industry. At the end of its mandate the members elected to stay together as a self-funding group to continue the work.

I was elected to the board in the autumn of 2007, due to my skills as a facilitator, leader and relationship development.

This organisation has allowed me to develop excellent relationships across industry and gain the trust of both director and workface level professionals. The commitment is relatively small, yet the rewards can be much greater.

**Royal Engineers** ongoing

**Captain – SO3 Infrastructure**

I have been an Army Reservist for over 30 years. My recent posting is to 12 Group Infrastructure Support, Royal Engineers. Where I am an advisor for HADR, Critical National Infrastructure resilience planning and recovery.

**Digital Engineering Volunteer – DEC, Class Of Your Own** ongoing

Helping to train and enthuse the next generation of infrastructure engineers

**Board Advisor – Digital Twin Skills Academy** ongoing

Guiding the upskilling of communities in Digital

Delivery of BIM/ Digital Twin advisory