

# Delivering Value through Data

## Detailed Schedule (v5 - update 03/06/2020)

### Mon 15/06/20 11:00 **Encouraging Data Innovation** - Peter Thomas (Prudential Regulation Authority)

An overview of the work we've done over the last three years to encourage innovative uses of data in the Prudential Regulation Authority. Will cover the creation of our data innovation team, our 'find, fix and explore' approach, and provide some examples of data innovation that we have delivered.

**Peter Thomas** leads on data innovation in the regulatory arm of the Bank of England. He heads up a team of data specialists responsible for delivering the bank's RegTech strategy, helping end users find, fix and explore new ways of using data and coordinating information and data governance.

Peter has worked in central banking and financial regulation since 2010. He has held roles in insurance and banking policy, supervision, and financial stability. In the latter Peter led the project to bring CRD IV regulatory reporting data systems into the Bank of England.

### Mon 15/06/20 16:00 **Our Journey to Deliver Value through Data** - Karen Alford & Graeme Tappenden (Environment Agency)

Karen and Graeme will describe the approaches taken to improve data and information managed across the whole asset lifecycle. Graeme will delve into the pipeline process we are adopting to define, assure and use data and information to drive better business value and Karen will demonstrate how this is shaping our programme of change to derive value from data.

**Karen Alford** leads the Environment Agency's Asset Management digital transformation within the asset management directorate across the whole asset lifecycle. She has been instrumental in driving forward a data centric approach including procurement and validation of data through BIM, improving data standards, increasing the availability and access of data internally and externally. A professional accountant, most of her career has been spent in IT services and the asset management sector.

Karen is involved in a number of cross industry groups including the Government led ISO19650 transition Group, Smart Infrastructure Working Group and the Digital Transformation Task Group, part of the ICE Client. She is also steering member of the Cambridge Centre Smart Infrastructure and Construction, BIM4 Water and a committee member for ISO19650 and ISO55000 standards.

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**Graeme Tappenden** BSc(Hons) CEng MIStructE A chartered engineer and subject matter expert in delivering improved value through information & data management across a broad spectrum of building & infrastructure environments.

Graeme was drafting committee member & contributor to BS/PAS1192 and ISO 19650 Part 3 and is co-author of the BIM Working Group publication [AIM CDE Functional Requirements](#) a templated approach client side common data environment requirements.

Graeme is a member of the Digital Built Britain ISO 19650 Transition Group and other cross Government Department initiatives and has directly supported a number of Government Departments in their uptake of standards based Building & Asset Information Management.

Graeme is the technical lead supporting the Environment Agency Digital Asset Data and Information (DADI) initiative to improve asset management capability through the implementation of end-to-end managed digital information & data delivery.

Tue 16/06/20 16:00 **The Story of Crossrail: Creating, Managing and Delivering Benefits through Data** - Malcolm Taylor (Expert Adviser for Crossrail International)

The challenge today is how to be more efficient and effective across the infrastructure and building lifecycle – creating, delivering and operating infrastructure to give the outcomes expected within an increasingly complex built environment. Whilst some organisations still struggle to simply understand what digitisation means, smart projects have already moved into digital ways of working and have transformed their delivery practices - becoming more efficient and with greater effectiveness.

This presentation will illustrate how Crossrail created its digital and data environment with practical examples and lessons learned in smart information management and creating a BIM environment, including:

- Digital basics – what is really needed to drive better outcomes
- Creating a true collaborative data environment
- How to encourage innovation

Lessons learned and problem areas are highlighted, but the evidence of benefits in going digital – by focusing on the endgame and reshaping work practices into workflows with digital tools - is made clear to those who want to improve both their project and infrastructure performance.

**Malcolm Taylor** is a specialist in digitalisation and the creation, implementation and application of Project Information Management (PIM) on major projects. He has over 40 years of experience in programme and project management, design and construction of major transport infrastructure schemes, gained throughout the Caribbean, UK, Europe, Africa, Middle East and Asia.

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Malcolm is a leading exponent of the UK's drive for PIM and Building Information Management (BIM) maturity in client organisations, using digital technologies for better decision-making and management of projects throughout the entire project life cycle. He was a contributor to the UK BIM Task Group and has appeared in the media as a transportation specialist, notably on Sky News, BBC News 24 and BBC Radio 4.

Recently, as Head of Technical Information at Crossrail for 10 years, Malcolm was responsible for the development of digital and technical information strategies as well as BIM, computer-aided design, document management, Crossrail's geographic information system (GIS), cyber security, and asset information management. He also helped managed Crossrail's award winning Innovate 18 programme, now broadened into an infrastructure industry innovation platform called i3P. Innovate 18 captured and explored pioneering ideas from all those involved in the project – a third of which were about data creation and use – and i3P is now helping to raise the bar for other major projects.

Malcolm holds a BEng in Civil and Structural Engineering from the University of Bradford and an MBA in Systems Engineering from the University of London. He has been a Member of the Institution of Civil Engineers, the Institution of Structural Engineers, and the Hong Kong Institution of Engineers.

Wed 17/06/20 11:00 **My Box, Your Eggs (even if some are off)** – Martin Sadler (Sandwell and West Birmingham Hospitals NHS Trust)

Starting with Martin's belief that being the CIO means that none of the information in the organisation is his, he will relate key messages and learning points from his career across public health, government, finance, technology, and retail.

**Martin Sadler** has been in IT for longer than he wants to remember. He has led technology services and teams within large organisations across several sectors. Martin is currently the Chief Informatics Officer at Sandwell & West Birmingham NHS Trust operating the IT for three hospital and building another one. He is a co-founder of Digital Gaps who link SMEs to interesting Digital work and created the CIODownload, a course designed to train and/or dissuade people from wanting to be CIOs. He is also a qualified climbing instructor.

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Wed 17/06/20 16:00 **Building the right data foundation to accelerate digital transformation and create a data-enabled business'** - Frederic Vaeremans (RPS Group)

RPS has grown over the past 30 years through a very large number of acquisitions of small businesses. As a result it is a very fragmented and diversified organisation. It has now started a new journey towards 'one RPS', creating and exploiting cross-group synergies where possible. A key focus of this journey is also improving data maturity across the group and leveraging data to drive new business growth.

In this session, Frederic will talk about the eight data management capabilities he is putting in place at RPS but which are also relevant for any business. He will share some of his challenges with regards to improving data maturity in a fragmented/soloed organisation. He is keen to discuss with participants how they are overcoming similar challenges in their respective organisations.

**Frederic Vaeremans** is a passionate evangelist for managing and exploiting data as a key business asset. Frederic started his career in Direct Marketing roles, then moved into senior Strategic and Commercial roles, before spending the last 10 years establishing and operating Data & Analytics teams in various industries. Notably, he worked for three years at the Law Society as Head of Business Planning, Performance Management, and CRM, followed by two years at Circle Housing as Head of BI and Information Management. He then spent three years heading up the BI & Analytics function at NHS Property Services before joining RPS Group Plc, a mid-size global consultancy business, as Chief Data Officer in June 2019. At RPS, Frederic is establishing a global data management and analytics function with a major focus on enabling digital transformation and delivering data products and services internally and to clients.

Thu 18/06/20 11:00 **Managing Data Quality: A Practical Guide** - Tim King/ Julian Schwarzenbach (Authors of 'Managing Data Quality: A Practical Guide')

Data is an increasingly important business asset and enabler for organisational activities. With growth in data sets and data volumes, it's becoming ever harder to manage. Data quality - the fitness for purpose of data - is a key aspect of data management and failure to understand it increases organisational risk and decreases efficiency and profitability.

The book "Managing Data Quality" was published on 4th May 2020 and explains data quality management in practical terms, focusing on three key areas - the nature of data in enterprises, the purpose and scope of data quality management, and implementing a data quality management system, in line with ISO 8000-61.

**Dr Tim King** is Principal Consultant at Babcock International Group and was convener for ISO 8000.

**Julian Schwarzenbach** is Director of specialist consultancy, Data & Process Advantage, and Chair of the BCS Data Management Specialist Group.

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Thu 18/06/20 16:00 **Digital, Data & Technology – The OGA Strategy** - John Seabourn (Oil and Gas Authority)

The OGA released its Digital Strategy in December 2019, which builds on the success of our Information Management Strategy (2016). It sets out the OGA's ambition to deliver, promote and influence digital excellence through digitalisation to support Maximising Economic Recovery, the energy transition and Net Zero. The talk will focus on the progress to date including data regulations and establishing the first UK National Data Repository for offshore petroleum related information and samples. Following this it will look ahead to the future of OGA's digital and data ambition in an uncertain and rapidly changing environment.

**John Seabourn** is Chief Digital Officer at the Oil and Gas Authority (OGA) with the remit to digitally transform the organisation to promote, influence and regulate the Oil and Gas Industry in the UK. He has been integral in the development of OGA's Digital Energy Platform, providing data services to industry, government, academia and the public. The platform has rapidly grown since 2016 attracting investment into the UK Continental Shelf, supporting the Energy Transition and providing resources to develop the next generation of energy data professionals.

Seabourn joined OGA's predecessor, Department of Energy and Climate Change (DECC), in 2014 as a Senior Mapping and GIS Manager and set about transforming the way spatial data was used in Government to support the Oil and Gas industry. Prior to joining the Oil and Gas industry, Seabourn worked for the Ministry of Defence and in the Aviation industry specialising in spatial data. He holds a Chartered Geographer accreditation from the Royal Geographic Society, is a member of the UK's Governments' Science and Engineering profession and has a BSc in Geography/Geology from the University of Leicester

Fri 19/06/20 11:00 **Information: The one true asset to rule them all** - Emma Hooper (Bond Bryan Digital)

Information management in construction compared to other industries is a relatively new subject, one where the industry has much to learn.

Information is an important asset in its own right, yet the industry doesn't appreciate this. Having standardised structured information and frameworks for its management, enables construction projects to progress much more efficiently. Helping to cut down on the waste, the risk and ultimately the chaos which leads to so many issues and value not being delivered for the client.

Information is the building blocks of projects, having a deeper understanding of it will enable the information to flow better, improve interoperability with technology and give people what they need to carry out their work.

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The presentation will cover:

- An introduction to information management and open data in construction
- The basics of information and how it is broken down at a micro and project level
- The foundations of information science in construction
- Industry Foundation Classes (IFC) the why, what, how and future
- How we should start to communicate this on projects

**Emma Hooper** is a Digital Information Specialist at Bond Bryan Digital. After studying Architecture, her focus and passion shifted to software and the technical side of design.

Her discipline is now very much that of information, fascinated by how the science and mechanics behind it can be applied to construction to get the real value from digitisation. She takes her in-depth knowledge of software and its interoperability and combines this with her understanding of industry standards and the theory behind them. Since working on the first Integrated Project Insurance project she also champions new forms of procurement as this is where she believes we need to start to create real industry change.

From a software perspective she is an Autodesk Revit certified professional, she co-authored the book “Delivering Construction Operations Building information exchange (COBie) using Autodesk Revit” and is a former Revit gunslinger.

She is now part of the BSI B/555 committee including UK expert for ISO 16739 (IFC), an author of the ISO 19650 guidance, an ambassador for the UK BIM Alliance and part of the buildingSMART UK & Ireland committee. Recently she became one of the first people to gain professional certification in the COBie schema.

Her push is to now use her experience and knowledge to make construction projects more efficient in terms of information management, by joining up the dots between people, process and technology to enable true collaboration with an emphasis on open data principles.

Fri 19/06/20 16:00 **Panel Debate**

Attendees are invited to post in questions throughout the week. The most popular will be debated in this session.