

Buildoffsite Water Hub 'Digital Water: Technological Developments and the Water Sector' minutes

Date: Monday 22 May 2017, 10am – 4pm

Water Hub Event

Host: Mott MacDonald

Venue: 10 Fleet Place, London, EC4M 7RB

Lead: Jon Rains

Objective: to showcase how digital technology can and is being used in the water sector

1. Introductions from Water Hub – Jon Rains, Mott MacDonald

JR introduced himself as the Water Hubs new lead, welcomed all and gave an overview of the health & safety requirements for the day. The strategic actions of Water Hub and the plans to reinvigorate the water hub were briefly discussed.

2. Infrastructure goes digital – Jaimie Johnston, Bryden Wood

Data driven infrastructure

Innovate UK by:

- Setting task groups
- Defining a project
- Captioning data from existing assets – mapping how existing products work

Using 'CHIP thinking' which means breaking problems down into knowledge – using different specialised people around the business. Doing this allows you to look at the overall need before dealing with one section.

Presentation attached

3. BIM - developing data assets in line with industry objectives', Andrew Cowell MWH Chair of BIM4Water

BIM's mission is to facilitate organisations in the water industry using task force work. Developing data assets in line with the industry objectives, using 'Task Groups' working on different areas, case studies & communications groups. BIM is causing awareness with the water companies – with water insurance companies working together.

Presentation attached

4. Beyond Standardisation; Automation of commodity design, Jon Rains, Mott MacDonald

Can't do innovations without standards

Standards promote innovations

Enable critical design constraints - [slide](#)

Moving away from email

[Specific points slide](#)

Go digital aspect – thinking you require – thinking fast thinking slow

[Core initiatives slides – Digital components catalogue](#)

Developed linking – Behavioural change required

Digital design more efficient way to look at design

Presentation attached

5. Round table discussion – John Browne

Digital Environment

- Implementation strategy for culture – change to make a success
- Training & awareness at all levels especially the middle – clients, suppliers, construction & operations
- Drivers
- Feed procurement routes
- Proportionate risk – Client/supplier
- Data analysis
- verification

Standards environment

- Drawing numbers implementation
- Standardise MAS – align all water authorities
- Standardise models – import & export – colouring line thickness
- Standardise whole life costing – level of detail, methodology, soft landings
- Operations – following the manual – carbon/ water footprint counting

Standard Products

- Delivering – GIS
- Procurement information
 - Lean
 - P6
 - Understanding what people want to know about a product
- Future products not just this AMP
- BIM-DfMA
- Volume strategy in design
- Enabling Collaborative Design at stage 0 & 1
- Modelling of Delivery to give certainty & reduce risk
- Enable digital rehearsal of assembly
- Digital information ownership

6. Skills and communications, Prof Jason Underwood, University of Salford

Last 5 years has seen a significant change in the UK BIMALLIANCE – launched in 2016.

There are 5 key areas of focus

Presentation attached