BIM Region South

The BIM Region South met on the 11th November in Winchester to discuss the **Practical Implications of BIM Level 2** in delivering a project with guest speaker Nigel Davies from Evolve Consultancy. The event was well attended with 65 people from various construction backgrounds learning more about **BIM Level 2** and the challenges of this now that the date for centrally funded projects has been set for the **4th April 2016**.

The event was also a chance for the launch of the BIM Region South- the home of digital construction (formally the South BIM hub) which is part of the BIM Regions nationwide. More exciting events and links to other organisations will be announced for the coming year.

The next event will be a Constructing Excellence event at 6pm on the 4th February – **Transforming Business Value with BIM and a case study presentation.**

Below are some notes from the session, please contact Mike, Allister or Nigel for more information, or see the presentation uploaded to the www.southbim.com website.

Nigel Davies from Evolve Consultancy

What is BIM?

BIM is a collaborative way of working, underpinned by the digital technologies which unlock more efficient methods of designing, creating and maintaining our assets. BIM embeds key product and asset data and a 3 dimensional computer model that can be use for effective management of information … It's about information use, reuse and exchange of which electronic documents are just a single component.

Making the right information available to the right person at the right time.

Level 0	CAD, unstructured information, lines arc, circles representing building elements
Level 1	Structured CAD, common standards and protocols, BS1192:2007(A1:2015), integration of 3D into the design process
Level 2	federated BIM, common standards and protocols, PAS 1192-2 (page viii definition) Employer's information requirements Evaluation of capability and capacity BIM Execution Plan Single environment - Common Data Environment (CDE) Enabling tools
Level 3	Integrated BIM, the single project model

Level 2 is a series of domain specific models with the provision of single environment to store shared data and information. See www.BIMtaskgroup.org/bim-faqs/

It is a graded wedge, therefore project specific projects can be assessed around capabilities

To measure BIM maturity try this link for Arups measure:
http://www.arup.com/News/2015_03_March/10_March_BIM_Maturity_Measure_model_launch.aspx

BIM Execution Plan: collaborative effort to communicate how Employer Information Requirements (EIR) and are delivered. Just because EIR has been issued does not mean that you have to follow it as it depends on capabilities and capacity. An organisation responds to this.

Level of Model Development (LOMD)

Roles and responsibilities –can be covered by existing roles within a project team, management not manager (not an additional individual). Has to be **specific people**, as a client will want to see these people on a project once commenced.

Information Exchange; COBie – attributes and information related to a project in non-graphical form

Common failures

Many of the issues with BIM Level 2 are not that hard to resolve

Make BIM level 2 activities **business as usual** activities – i.e. that you understand what you will deliver at each stage of the project.

BEP template required to be clear what you will deliver at each stage of the project.

The argument that 'We can't do BIM level 2 unless everyone is' is incorrect – make BIM business as usual for your organisation

Disparate software solutions – IFC is a neutral file format – it appears that someone may have to be an expert in many software

Shared environment

BS1192:2007 – Common Data Environment (CDE) can be a number of differnet solutions and is a data management system. The most important part is how you are approving the information – i.e. suitable for a specific status. This is a challenge to traditional ways of working – more data acentric, less drawing focussed.

EIR vs. educate the client – what will the model data be used for, who is responsible for what, what is beyond the scope of expected BIM production

More lead in time is required to plan **activities and checking** – pre and post contract BIM EP, preparing the project data especially where it sits in space and data exchange, training

Conclusions

- BIM is not a competitive advantage over your competition; **delivering better projects** is
- **Strategy** required

- Get educated – question and probe to understand issues
- Know your business – EIR/BEP decisions based on business not BIM
- Understand what will the model data be used for
- Plan a sensible programme of adoption
- Plan the time you need
- Right people leading, top-down and bottom-up
- Collaborate (with everyone, internal and external)
- Use resources such as the **AEC BIM Protocol**
  https://aecuk.files.wordpress.com/2012/09/aecukbimprotocol-v2-0.pdf

Challenges to BIM Adoption