

14th International Surveyors' Congress & 2012 CASLE Regional Conference

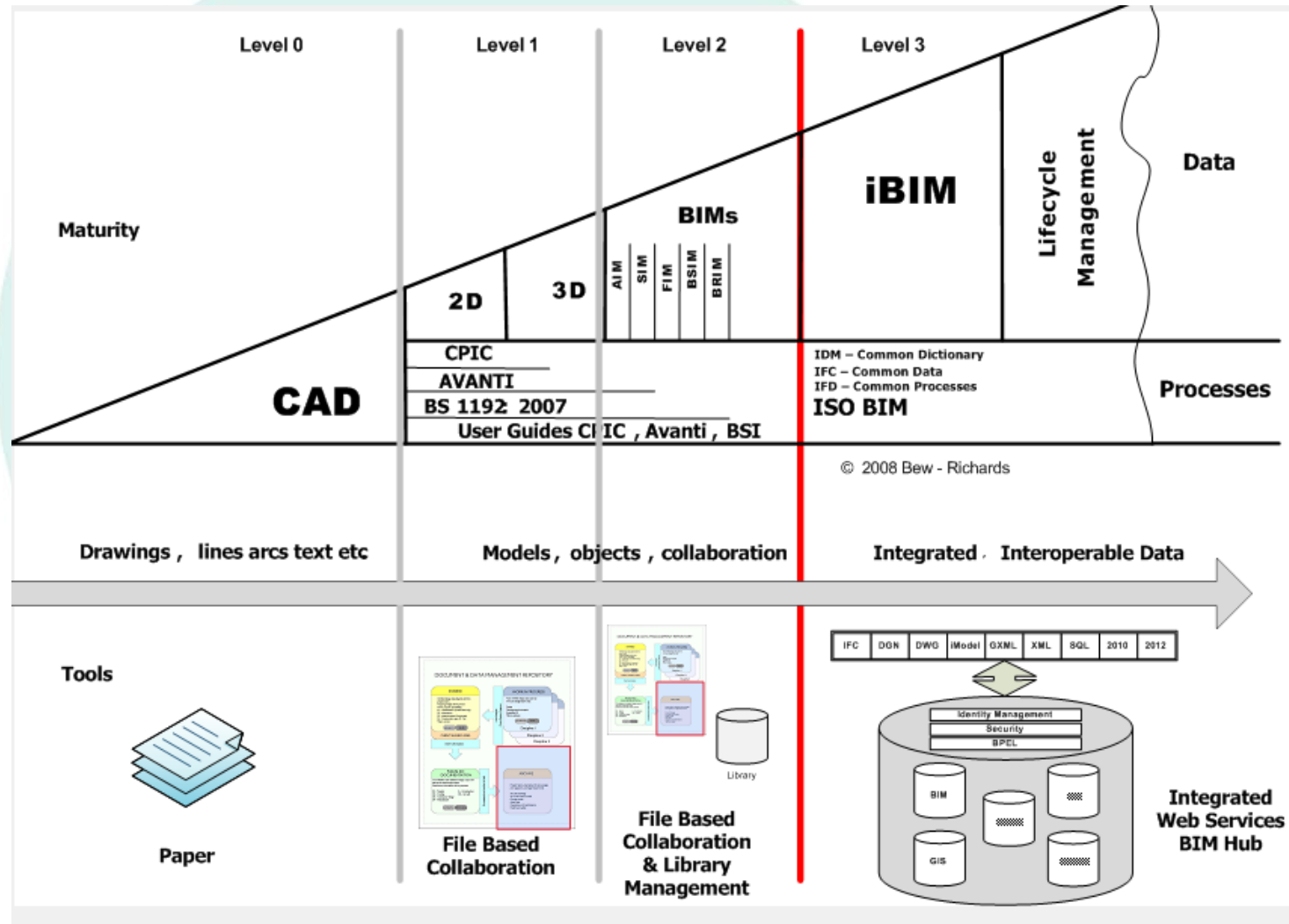


The role of civil engineering surveyors in the development of Malaysia's infrastructure

**Presentation by Chief Executive Officer Bill Pryke
21 June 2012**

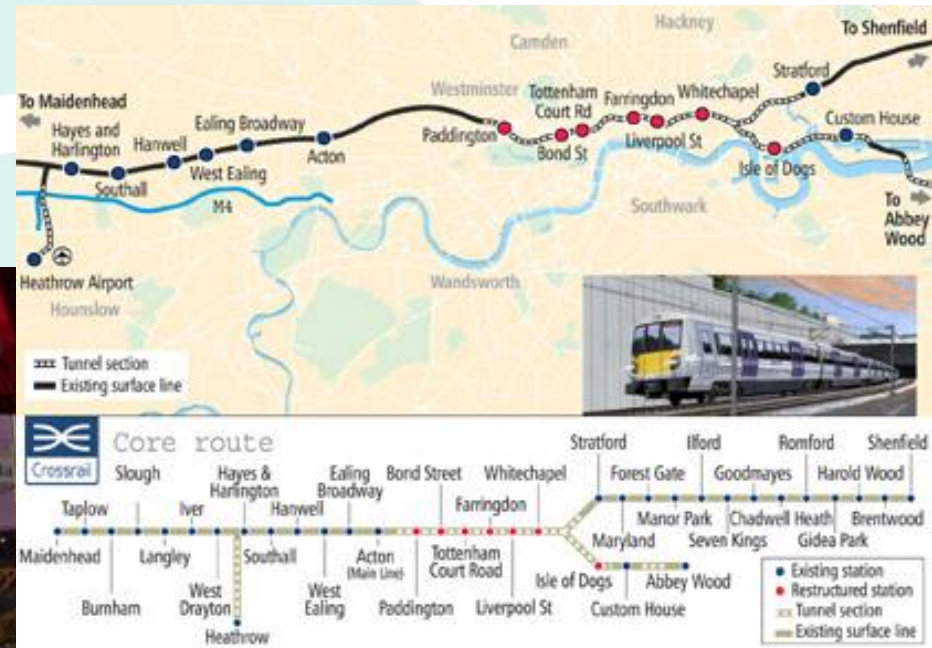
What is BIM?

It is about
data,
standards
and
processes
and not
technology
or just a
model

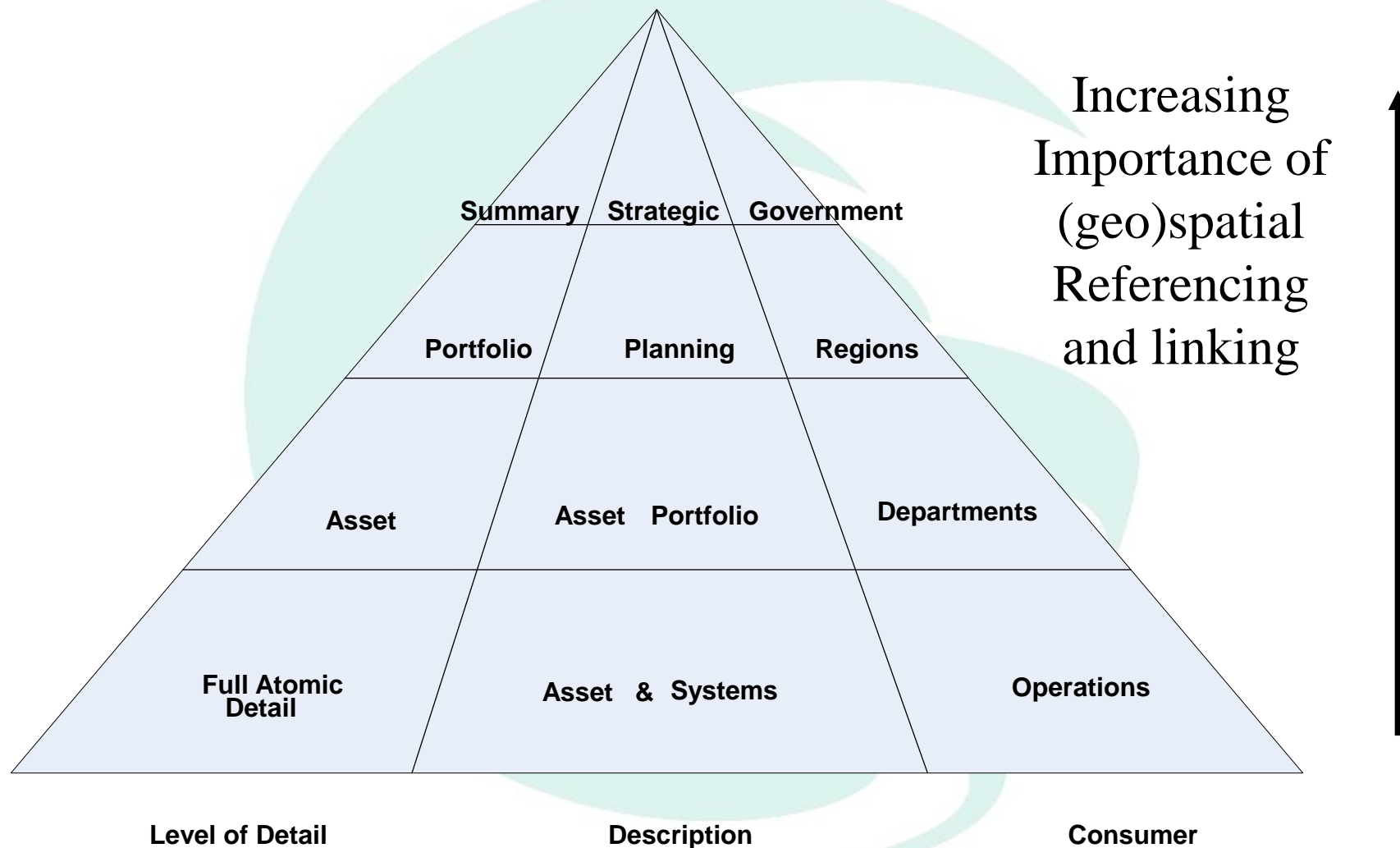


BIM Infrastructure Example

Crossrail UK



Data Hierarchy of needs/User Levels



Royal Charter

'The object for which the Institution is established (hereinafter referred to as the “Object”) is to **advance the science and art of civil engineering surveying** in all aspects of the specialisations of geospatial engineering and commercial management within civil engineering for the benefit of the public, **in particular but not exclusively by upholding and advancing the standards of education, competence, practice and conduct of members of the Institution**’.

The Specialisms

Geospatial Engineering

- Land surveying
- Engineering surveying
- Hydrographic surveying
- Photogrammetry and remote sensing
- GIS
- Buried services

The Specialisms

Commercial Management

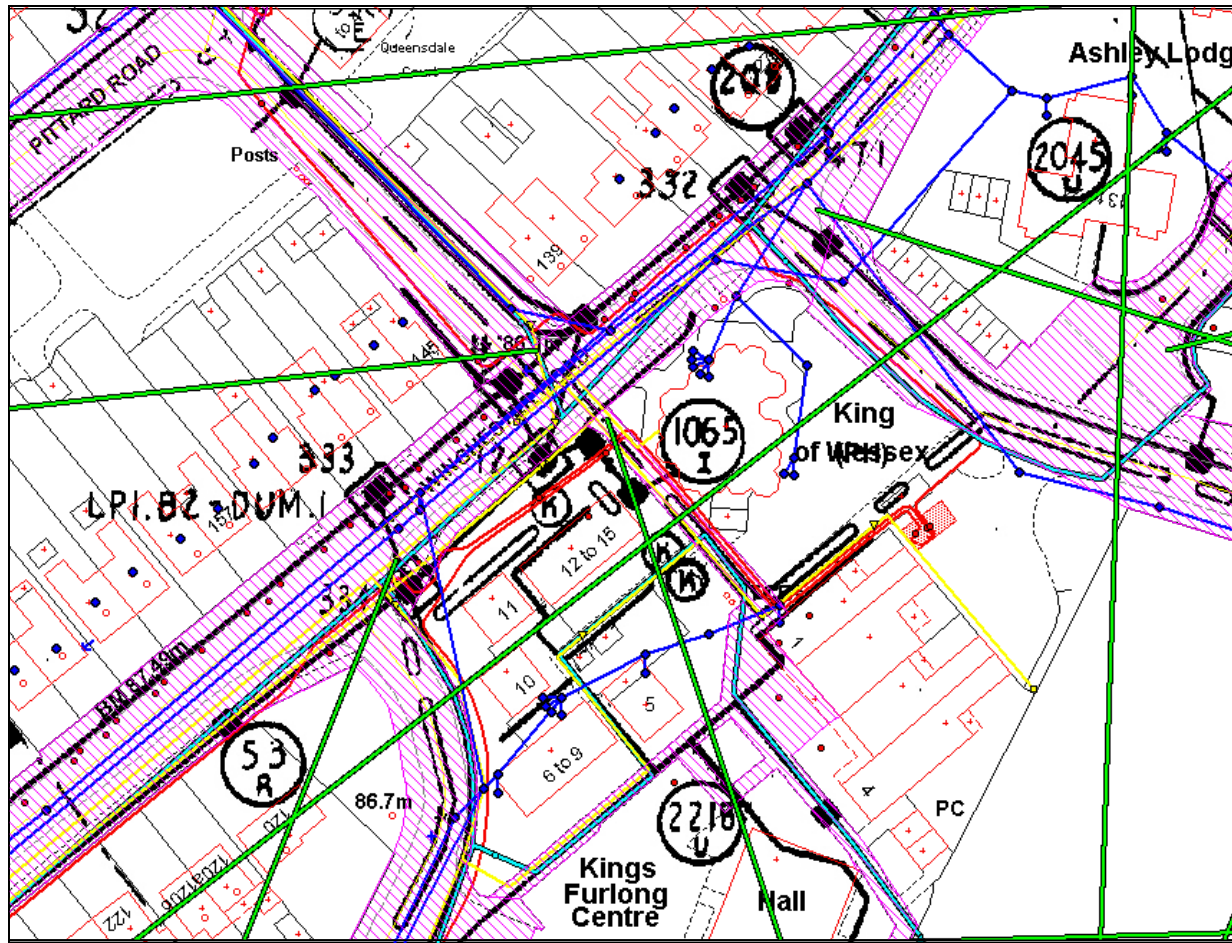
- Quantity surveying
- Estimating
- Cost engineering
- Project management
- Procurement engineering
- Construction law
- Planning

Expectations of professional bodies

- Greater responsibility
- Standards
- Professionalism
- Competence
- Lobbying
- National collaboration
- International collaboration

Buried Services

Sub-surface Utility Engineering



How is ICES viewed by the industry?



‘The Institution is now internationally recognised as the **LEADING** chartered professional body for civil engineering surveyors. It has introduced **RELEVANT** and **MEANINGFUL** competencies for geospatial engineers and commercial managers and **SUPPORTS** companies within the civil engineering industry in developing and demonstrating their professional competence. It understands the civil engineering industry and is **FLEXIBLE** in its approach.’

How is ICES viewed by other professional bodies?

‘Professional bodies recognise the unique sectoral knowledge and expertise of ICES within the civil engineering industry’