OGC & bSI Collaboration - IDBE:

Integrated Digital Built Environment

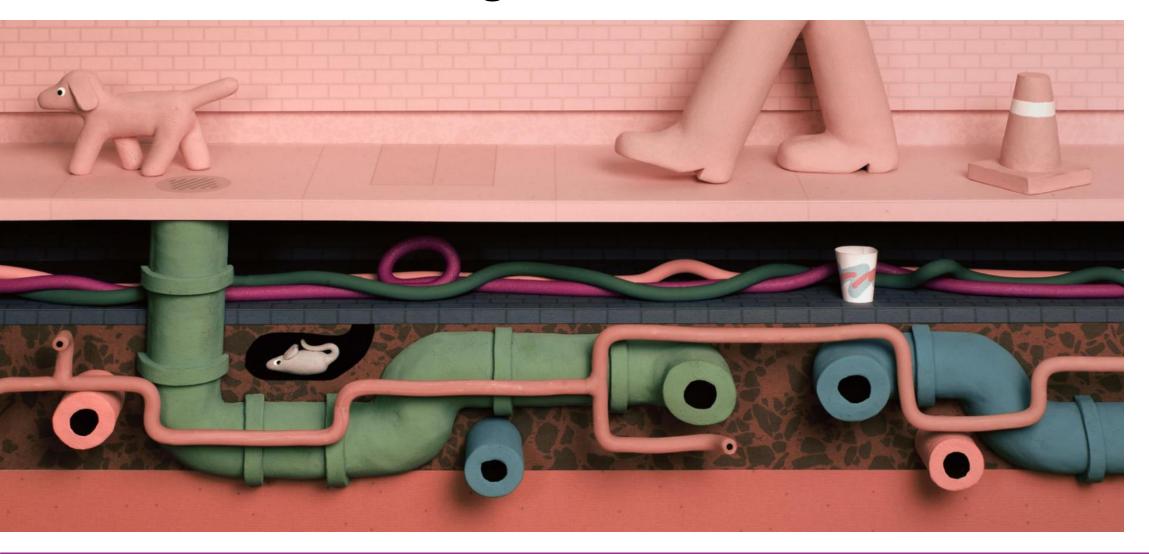
Carsten Rönsdorf & Jim Plume

Geospatial Standardisation Workshop, Paris, 22 January 2019





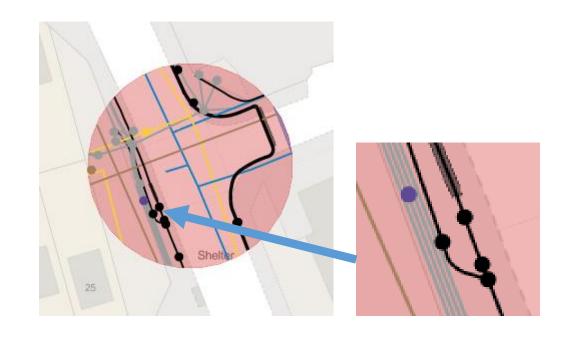
Use case: Underground Infrastructure

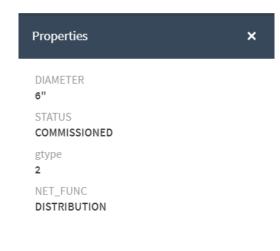






Newcastle underground data sharing

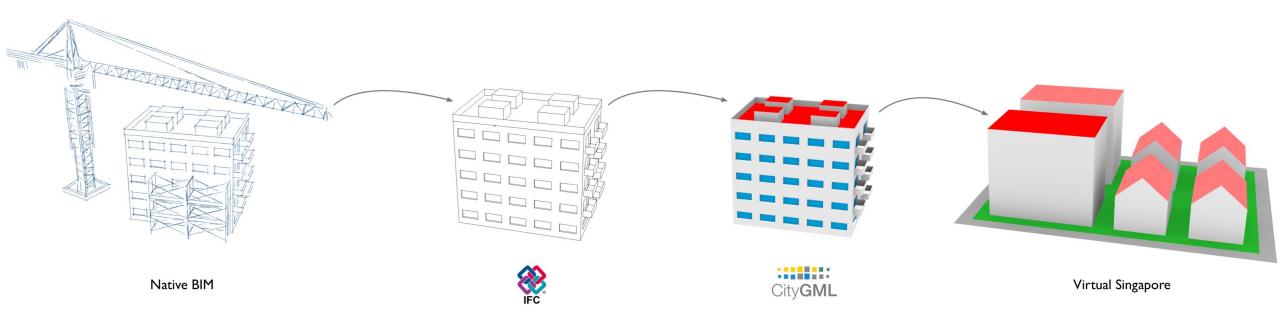








Use case: Information harvesting

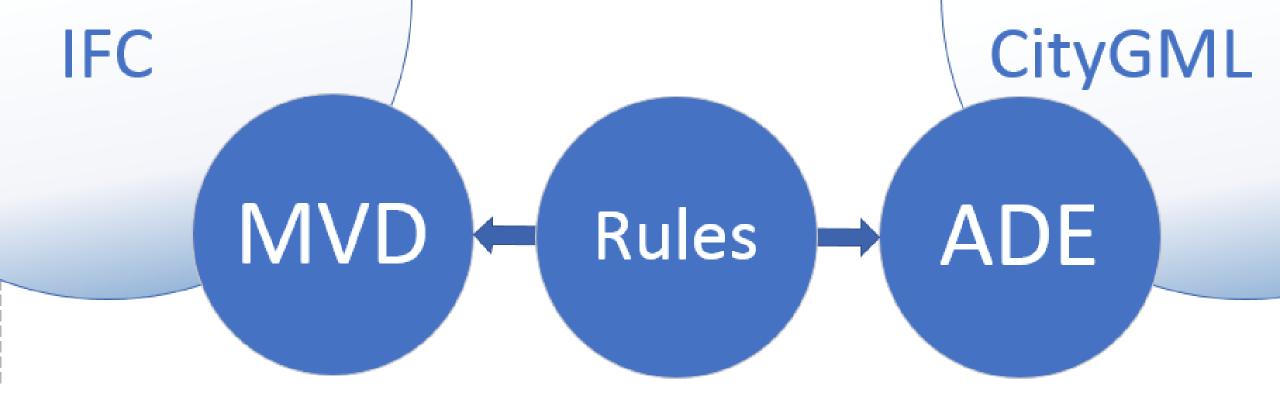












- Triple
- Triple Graph Grammar
- Interoperability connector (MVD+rules+ADE package)





Future City Pilot (FCP), Phase 1

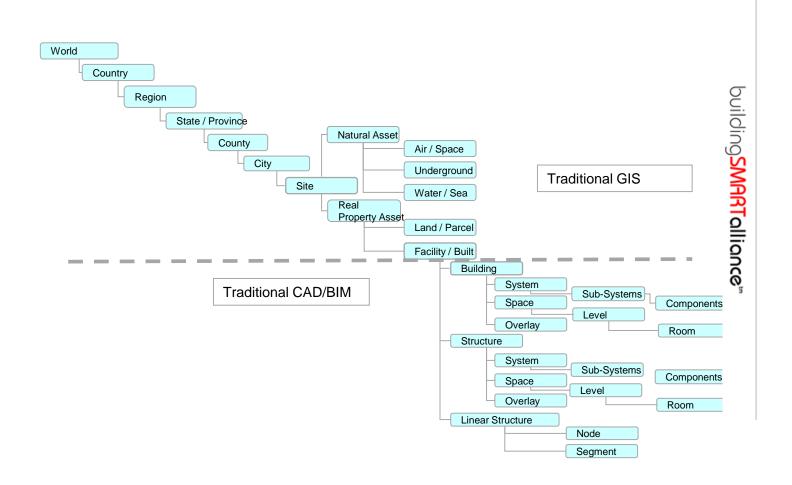
- OGC in collaboration with bSI
- Accelerate standards process, requirements based
- 6/8 months project
- Pilot interoperability arrangements in Geo and BIM
 - Link IFC and CityGML in an interoperable environment using Open Standards
- Use cases
 - Urban Planning
 - Social Deprivation (Humidity social housing)
 - Flooding







Continuum of Scales (ancient slide)







Collaboration re-confirmed mid-2016

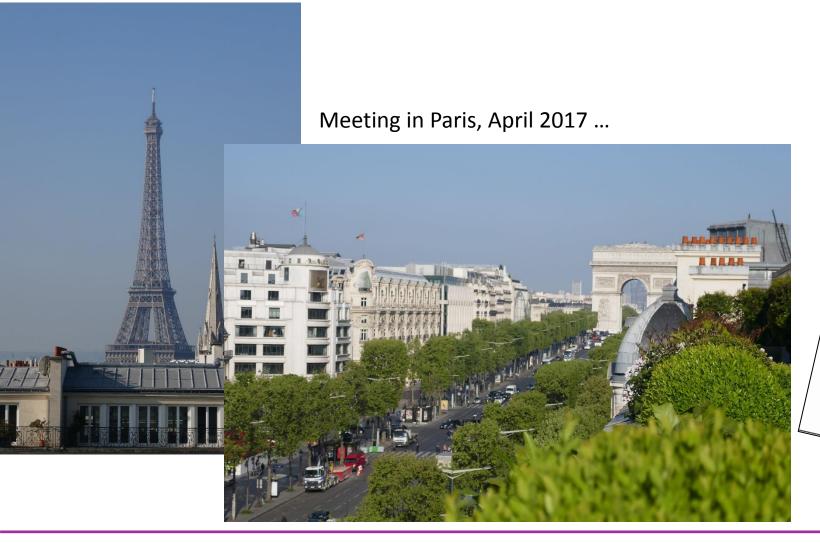


New Collaboration strategy and MOU launched in 2-day Workshop in Nov 2016





White Paper - Finalised

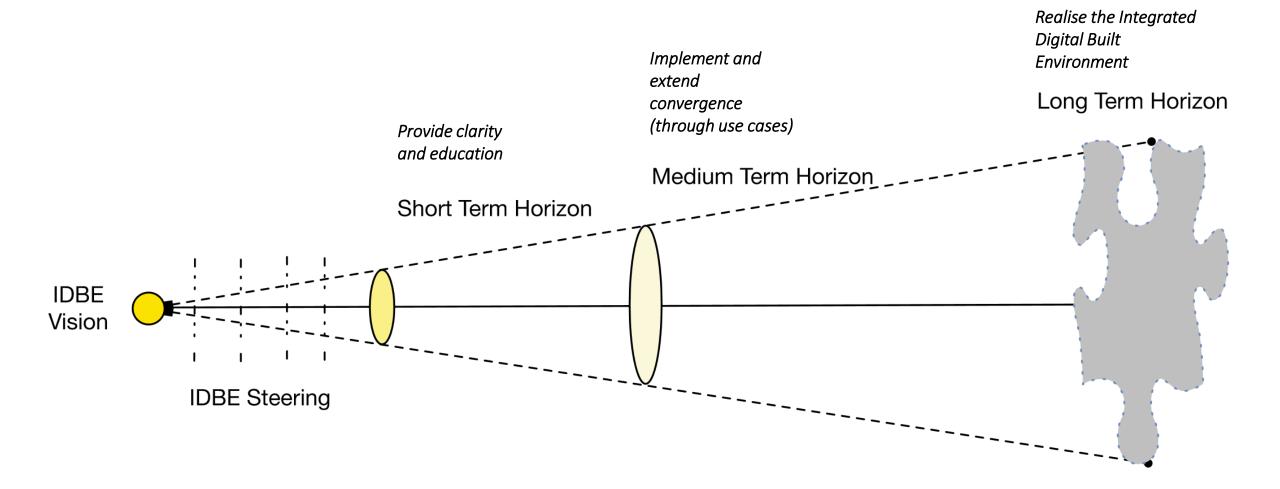








IDBE vision







Integration/interoperability

approaches/framework (4 levels)

- 1. Formalising and relating modelling techniques
- 2. Joint conceptual model
- 3. Linking of conceptual models
- 4. Instance linking





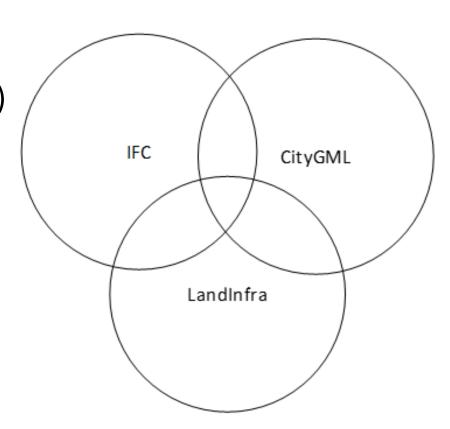
Munich Workshop 19-20 April 2018

Understanding commonalities and differences of 3 standards

- Thomas Kolbe (CityGML)
- Thomas Liebich (IFC)
- Hans-Christoph Gruler & Johnny Jensen (InfraGML)

3 questions:

- Uniqueness of 3 standards
- Overlaps
- Anything not covered (outside)







Ideas

- Do we need a common Schema Project across bSI (Infra?) and OGC?
- Would the geospatial metadata approach create value for IFC
- Can we use ISO19650 in the geospatial domain?





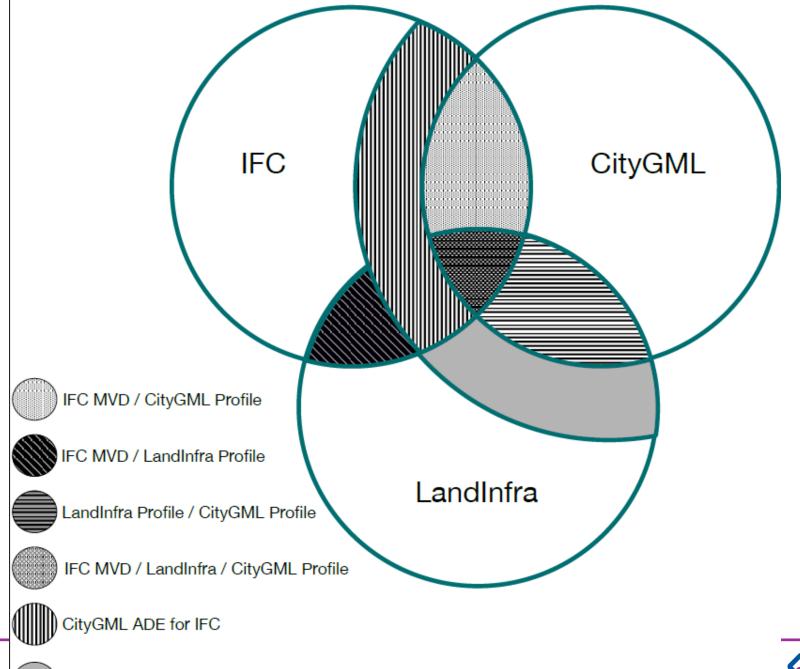
Statements

IFC is a publication format for BIM

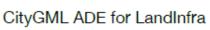
CityGML is a way to structure urban information

LandInfra is an alternative to LandXML





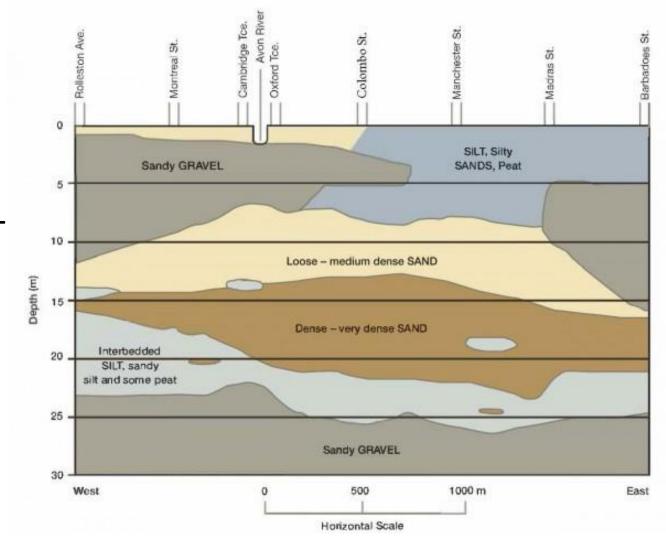






Geotechnics

- Role for IDBE to coordinate
- Existing standards like GeoSCIML
- Link to bSI Common Schema
- IDBE focus topic





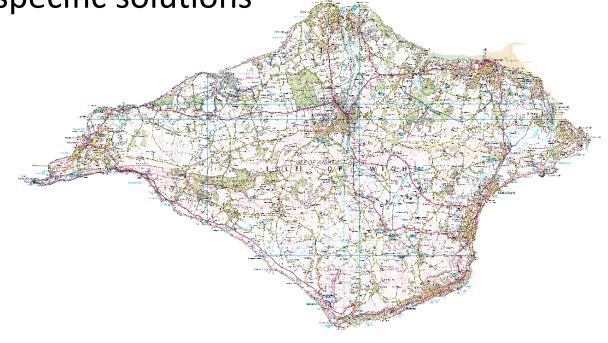


4 reasons to use standards

1. Common concepts enable integration with separate systems

2. Long term **independence** from specific solutions (logical / practical)

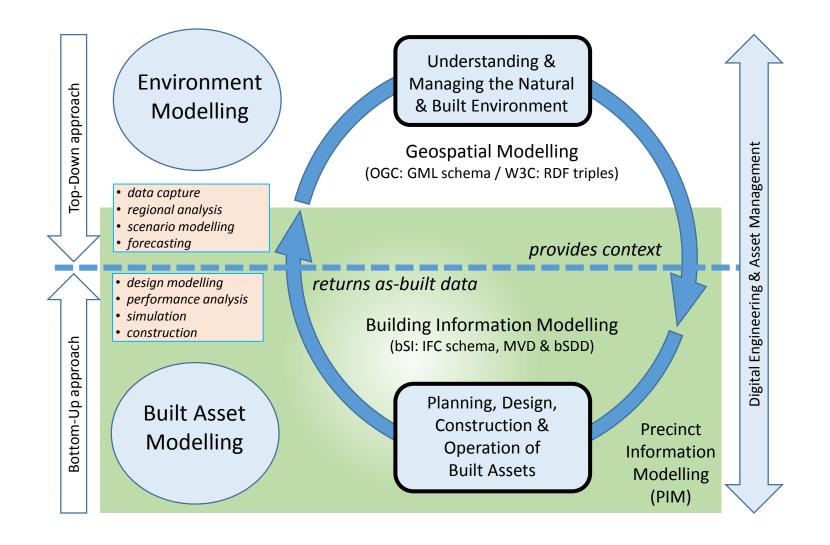
- 3. Learn from others—save costs
- 4. New insights / possibilities







The Integrated Digital Built Environment







Integrated Digital Built Environment

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