



Urban Energy workshop

**OGC and bSI
Geospatial and BIM
CityGML and IFC**

INSPIRE-GWF 2015

Bart De Lathouwer
OGC



Collaboration OGC, bSI and ISO TC 59



- Memorandum of Understanding
 - Jointly develop standards
- Not the first time we touch on the topic
 - [AECOO-1 Testbed](#) (2009), delivery of BIM through OWS



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- Memorandum of Understanding
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 - [AECOO-1 Testbed](#) (2009), delivery of BIM through OWS
- Relevant working groups (similar to bSI *rooms*)
 - CityGML, IndoorGML, Urban Planning DWG, Land & Infra DWG, 3DIM



Looking for communalities



- Where are Geo and BIM on this map?

Planning

**Conceptual
Design**

**Detailed
Design**

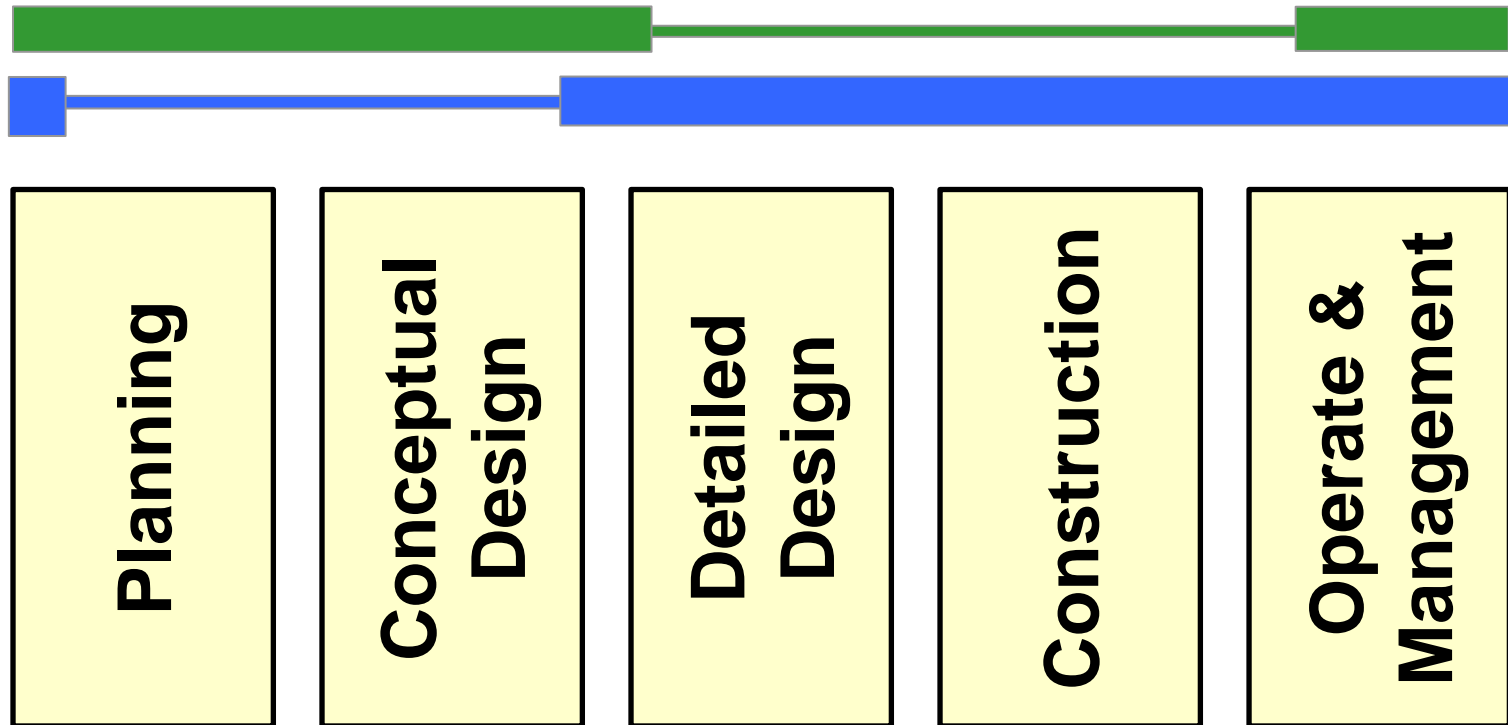
Construction

**Operate &
Management**

Looking for communalities



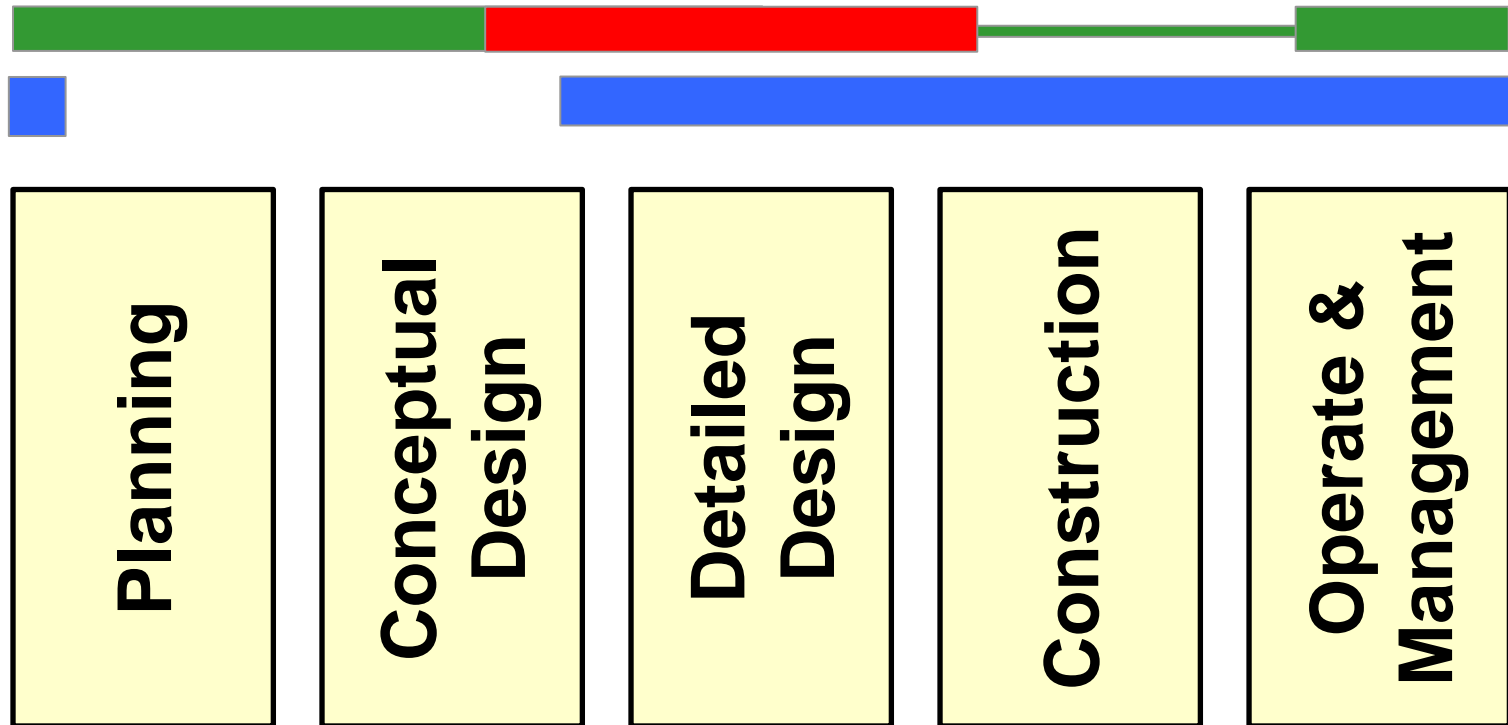
- Where are **Geo** and **BIM** on this map?



Initial focus on Infrastructure Design



- Quid Civil Engineering?
 - Mix of Geospatial and BIM



Initial focus on Infrastructure Design



- Civil Engineering

- Uses both Geospatial and BIM concepts
 - Earth related, coordinate system, feature based
 - Model based
- Road design



Image by anteagroup

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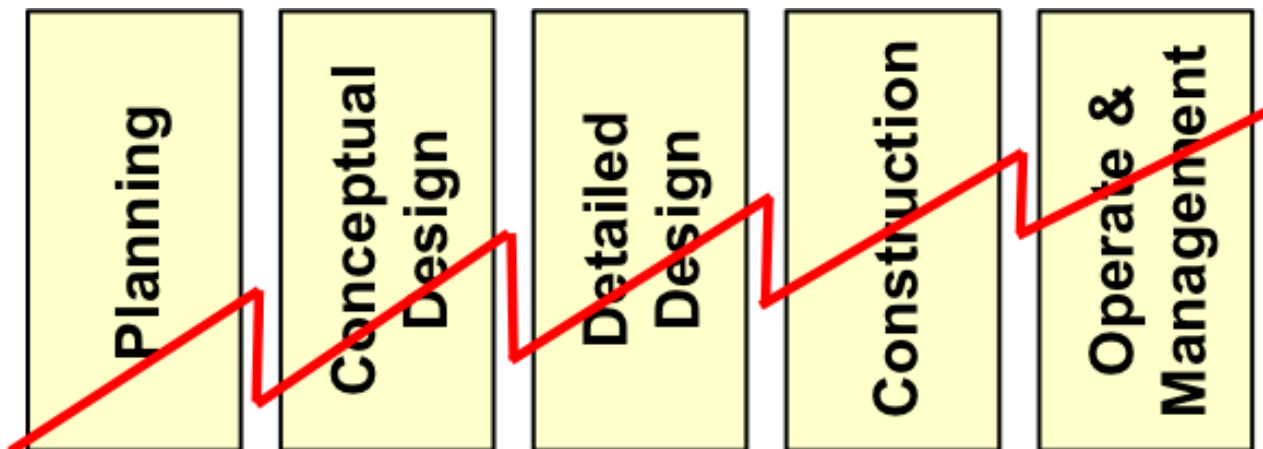


- Joint conceptual model:
 - bSI Infrastructure room
 - [Land and Infrastructure Domain Working Group](#)
 - be synchronized with the concurrent efforts by buildingSMART in IFC
 - [Learn lessons from LandXML](#)
 - be more easily integrated with CityGML and TransXML
 - based on a UML conceptual model developed prior to the GML (and IFC) encoding
 - Under the leadership of Paul Scorponcini

Towards Semantic Interoperability



- We are still in the storming phase
 - Lots of models, ontologies, dictionaries, ... are being developed by projects, organisations, companies, ...
 - Information loss when moving from one to the other



Concluding



- Collaboration OGC, bSI and ISO TC 59
 - This is big news!
- Joint conceptual model, encoding in GML and IFC
- User need to focus on solving business problems
 - Not spending time converting / recreating data
- Standards are created by people like yourself
 - Participate in the process





Thank you



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**“Happiness
equals reality
minus
expectation.”**

— Tom Magliozzi