

# LINKED DATA VISION FOR THE BSI INFRAROOM BY TNO & RWS

IR-08 Wednesday 9:00-10:30 h | Bart Luiten, Michel Böhms, (TNO), Benno Koehorst (RWS)

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# MANY INITIATIVES ARE USING LINKED DATA

- Within bSI:
  - LDWG/IfcOWL, initial bsddOWL ProductRoom, ideas RegulatoryRoom, links to MVD
  - Phi'l Jackson's study: "asset managers want to use liberated data"
- Beyond bSI:
  - W3C LBD Community Group (+links to OGC/ISO/...)
  - CEDR BIM project Interlink: European Road OTL (Object Type Library)
  - COBieOWL
  - EU V-Con semantic software tender
  - CB-NL / SE BSAB / DE okstraOWL / RWS OTL
  - NL PDOK Linked Public Data portal

# WHY LINKED DATA FOR END-USERS?

With 'Linked Data' we can:

- Share BIM, GIS, SE data: define once, link & (re)use multiple times
  - Note: Transformation == Trouble
- Address Data & Knowledge Management at the same time and integrated
- Configure your own optimal 'standard' from relevant proven solutions (distributed i.s.o. centralised)
- Easy reuse and delivery from/to (up to date) 'external' data resources and legacy systems

# WHY LINKED DATA FOR MODELLERS?

With 'Linked Data' we can:

- Use BIM, GIS and SE\* open standards seamlessly together enabling also new end-user 'Linked Data'-based software functionalities
  - Maximise reuse of each others work (models, methods, tools) avoiding double work and 'one-of-a-kind' solutions & get at the same time more compliant software (software vendors get critical mass by a stable future-proof platform)
  - Focus on your own 'core modelling business'
- Add National and Company-specific semantics to generic, international standards and compliant software
- Reap the benefits of all Internet/Web developments, now and in the future

# NOW IS THE TIME FOR THE INFRAROOM

- › to embrace the Linked Data opportunity to the fullest, and
- › to follow and adopt the proposed developments in the TechnicalRoom LDWG
  - › Architecture/Roadmap
  - › Modelling Guide for OTLs
- › aligned with
  - › the bSI RegulatoryRoom & ProductRoom (bSDD)
  - › developments beyond bSI

# PROPOSED INFRAROOM RESOLUTION

- Decisions
  - InfraRoom embraces LD-approach, and
  - Follows and adopts the architecture/roadmap & Modelling Guide from LDWG
- Work Item in Work plan 2017
  - Prepare for adopting the LD-approach
  - Identify relevant models (ontologies, OTLs, ...)
  - Define a **Global Architecture for Infra** as combination of:
    - 'Overall Architecture IFC' bSI InfraRoom +
    - Beyond IFC, beyond bSI developments +
    - LD-approach from TechnicalRoom/LDWG

## NEXT STEPS?

- › Do we agree upon the proposed resolution?
- › If yes, this afternoon, fill in template for new Work Item 'LD4Infra as part of the InfraRoom WorkPlan 2017
  - › Who wants to join in?



› **THANK YOU FOR YOUR  
ATTENTION**

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