



Workshop on the Future of TransXML: Where Are We Going and Why?

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An Industry Perspective

- Asset Management
 - (ref. 3) Highway Inventory
 - (ref. 5) Road Assets
- Cadastre
 - (ref. 14) Utilities and Right-of-Way
- Geometric Roadway Design
 - (ref. 8) Geometric Roadway Design/LandXML
 - (ref. 8a) Geometric Roadway Design/LandGML
- Permits
 - (ref. 17) Permit Application
- Outreach

Asset Management

- Significant opportunity if we focus on the design/construct to owner handover (information exchange), i.e., as a Civil “BIM”
- This has already proven to be successful for buildings
- Existing work in the standards community (COBie) is being extended from buildings to civil/infrastructure projects (COBie For All)

Cadastre

- Right of Way data: parcels, appraisals, acquisitions, relocations, property leases/sales/relinquishments
- From state and local cadastre and right-of-way systems to planning and design; from design systems into highway inventory systems for use by maintenance and operations staff
- Other standardization efforts
 - ISO 19152 Land Administration Domain Model (LADM)
 - LandXML and ePlan extension
 - Open Geospatial Consortium (OGC) “InfraGML”

Geometric Roadway Design

- Roadway geometric design (e.g., alignments, cross sections, superelevation) is fundamental to exchanges across life cycle phases, disciplines and activities
- Current status of LandXML ?
- Open Geospatial Consortium (OGC) has been asked to get involved
 - Land and Infrastructure Domain and Standards WGs
 - “InfraGML”
- Building SMART International (bSI) has engaged
 - “Building” not just “Buildings” – Infrastructure Room
 - IfcAlignment, IfcBridge...

Permits

- Oversize/overweight permit application information from services and trucking companies to State DOTs
- Broader use of a single XML schema across multiple states would simplify permitting process - e.g. large carriers could submit a single application that could be consumed by multiple state systems
- PermitXML currently in use
- Vendor open to working with others on a collaborative process to modify the schema

Outreach

- “Inreach”
 - Identifying opportunities
 - Managing requirements: capture, document, assess, revise
 - Soliciting feedback during development
- Outreach
 - Publicizing
 - Educating
 - “Selling”
- Collaboration (e.g., OGC, ISO, bSI)
 - How do we get AASHTO and the DOTs involved in the development of industry standards?