READY TO TRANSFORM?

Solving INSPIRE Implementation Project Challenges Together

INSPIRE Conference 2014, Aalborg, Denmark

19.06.2014 Thorsten Reitz, Simon Templer
Agenda

– What limits better re-use and collaboration of SDI Transformation components and solutions?
– What would the Data Transformation platform of the future look like?

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*Transformation: Required Data manipulation in Migration, Harmonisation, Reporting, Analytic and Integration processes
Data Model Size and Complexity (latest versions only)

- Complex Types:
  - OGC: 2042
  - INSPIRE: 1887

- Reference Types:
  - OGC: 137
  - INSPIRE: 278

- Property Elements:
  - OGC: 5390
  - INSPIRE: 3515
Total Size (all declarations) over Time

- 2005: OGC 1905, INSPIRE 1
- 2008: OGC 6101, INSPIRE 4903
- 2011: OGC 11082, INSPIRE 7019
- 2014: OGC 16214, INSPIRE 21057

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Data Transformation is hard!
Feedback helps understanding

Real-time

Interaction Feedback

Collaborative
Re-Use of Transformation SDI Systems (dhp survey, 2011-12)

- No Re-Use: 72%
- Internal Component Re-Use: 14%
- Internal Conceptual Re-Use: 8%
- External Re-Use: 6%

**Software**
- No Re-Use: 72%
- Internal Component Re-Use: 14%
- Internal Conceptual Re-Use: 8%
- External Re-Use: 6%

**Process Definitions**
- No Re-Use: 75%
- Internal Component Re-Use: 2%
- Internal Conceptual Re-Use: 19%
- External Re-Use: 4%
3 Reasons why we believe work is needed:

1. Exponentially increasing complexity
   - Reduction
   - Accessibility

2. Understanding requires immediate Feedback
   - Collaboration
   - Interaction

3. Solutions are not commoditized
   - Segmentation
   - Communitization
HALE 2.8.0

- Direct Feedback
- Flat Decisions
- Declarative Model
- Abstraction of Format specifics
- Powerful Engine
- Convention over Configuration
  - If you need it, Groovy is there to enable customization
Solve Tasks Together

Load Project
Edit Project
Create Task
View Solution
Accept Solution

Projects
Schemas
Tasks

Ah, this is a task I can help with!

Load Project
Edit Task
Save solution

DEMO
Further collaborative tools & processes

1. Processes
   1. Collaborative Transformation Testing
   2. Collaborative Information Model Design
   3. Data Publishing

2. Tools
   1. Manage and share your projects online
   2. Project versioning & backup
   3. Reference and sample projects for INSPIRE
   4. Tasks and comments for any resource (Schemas, Mappings, Code Lists, ...)
   5. Supporting visualizations for schemata and sample data
we>INSPIRE

• Dynamic Simple Feature Services
  • INSPIRE services should be easy to create – and to use!

• Extended Validation & Repair
  • Go beyond schema validation to ensure optimal data quality
Individual and Facilitator Subscriptions

• You want to join the community.
  • Share Projects
  • Host and Publish Data
  • Help and be helped
  • Perform online Data Transformations

• You want to enable your community.
  • Drive maintenance and quality
  • Manage group/community access
  • Provide reference schemas and projects
READY TO JOIN?

Visit [www.wetransform.to](http://www.wetransform.to) to register for Early Adopter Access. Come by our booth at the INSPIRE conference exhibition.

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