XÖV Framework (XML for German Public administration)
Metadata Governance in the German public sector

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Background: Germany
Background: Federal Republic of Germany

- ... comprises sixteen States (Länder)
- each State has its own state constitution
- each State is largely autonomous regarding its internal organisation
- ... comprises 11,000 municipalities
XÖV History: Residents Registration

- 2000 - paper based data interchange between German residents registers at municipalities
- 2001 – setup of a systematic approach to develop specifications for electronic data exchange
- 2003 – “XMeld Specification” (~900 pages, 420 complex types)
- 2007 – XMeld has been made legally binding
- 2008 – based on XMeld approach XÖV has been developed and applied to other projects
- nowadays ...
  - 300,000 XMeld-Messages are sent per day
  - appr. 25 so called XÖV-Specifications are published and in operation
XÖV - Foster the Reuse

• Reuse of methodologies, semantic assets, tools and infrastructure
  – improve quality while simultaneously reducing costs
  – increase interoperability
  – improve openness / access to specification

• Semantic assets to be reused are
  – Core Components
  – Code Lists
  – Data Types
  – Specifications
Steps in Creating XÖV Specifications
Components of the XÖV Framework

Regulations
- Criteria of XÖV Conformance
- Naming and Design Rules
- ...

Tools
- XGenerator
- InteropBrowser
- Genericoder
- ....

Semantic Assets
- Core Components
- Code Lists
- Data Types (string.latin, ...)
- Specifications

Infrastructure
- XÖV Library
- XRepository
- OSCI-Transport
- ...

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Components of the XÖV Framework

- Criteria of XÖV Conformance
- InteropBrowser
- XÖV Naming and Design Rules
- XÖV Library
- XÖV Core Components
- XÖV Data Types
- XÖV Code Lists
- XÖV Profile
- XGenerator
- XRepository

Design ➤ Specification ➤ Production
Core Components and **InteropBrowser**
Further Readings

  dx.doi.org/10.1016/j.scico.2013.03.009
• https://www.xrepository.de
• http://interopBrowser.xoev.de
• http://genericoder.xoev.de
• http://www.xoev.de
• http://www.it-planungsrat.de