

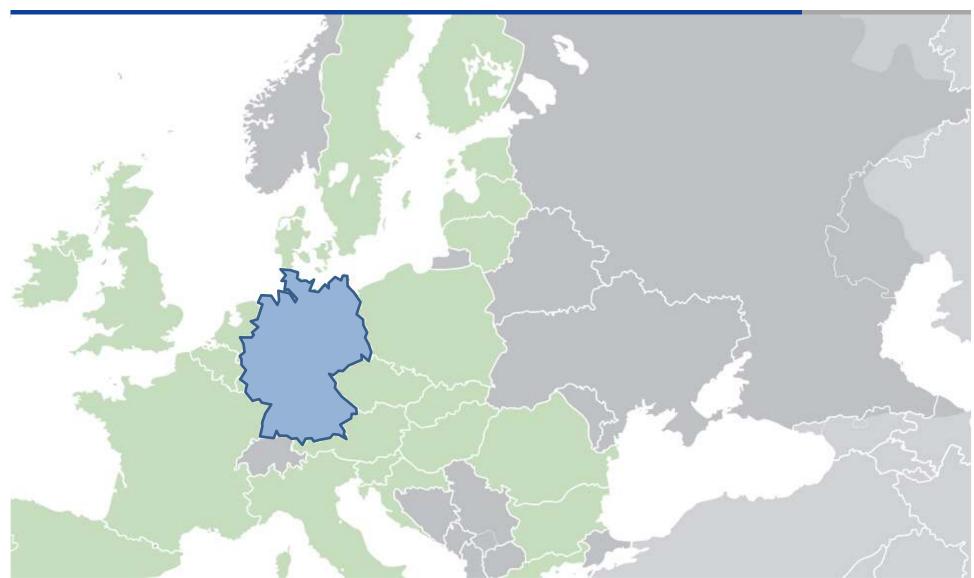


XÖV Framework (XML for German Public administration) Metadata Governance in the German public sector

Lutz Rabe | Coordination Agency for IT-Standards (KoSIT) Sebastian Sklarß |]init[AG 26th of November 2015 | Share PSI 2.0 | Berlin



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

07.12.2015



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

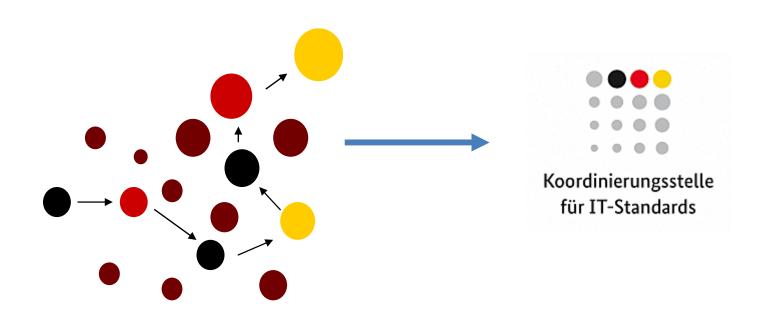


XÖV - Foster the Reuse

- 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

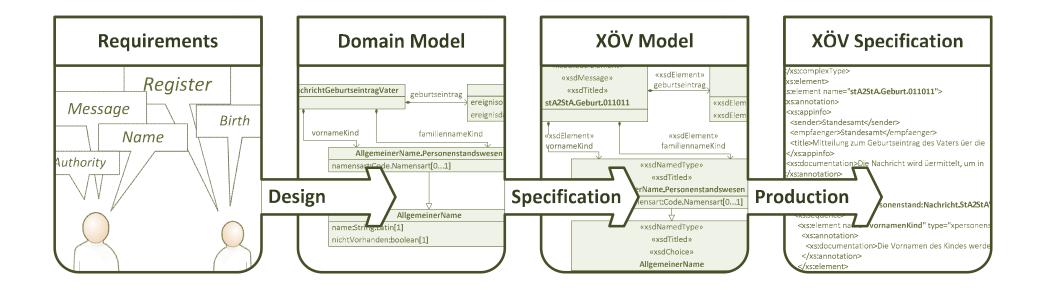








Steps in Creating XÖV Specifications





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



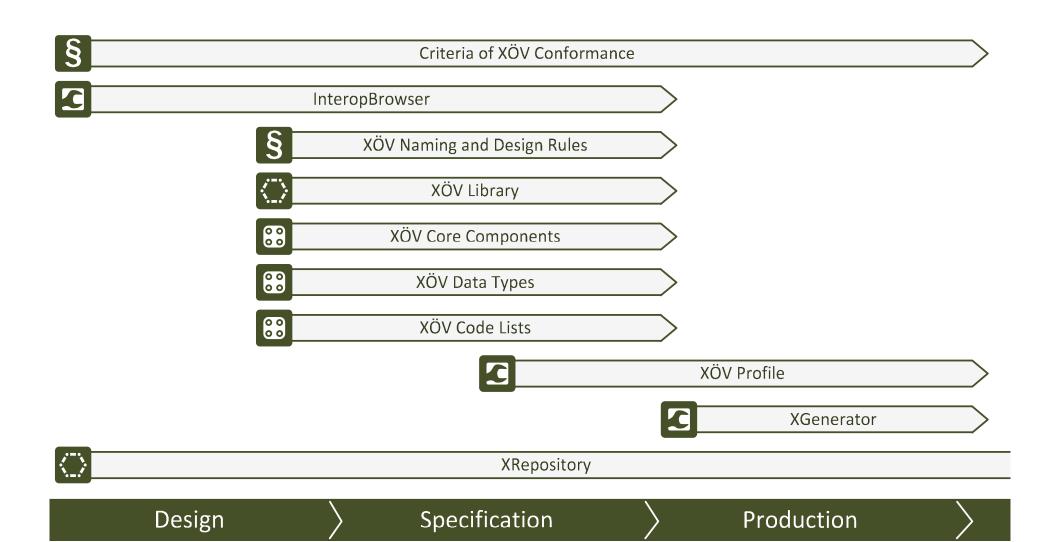
Infrastructure

- XÖV Library
- XRepository
- OSCI-Transport

— ...

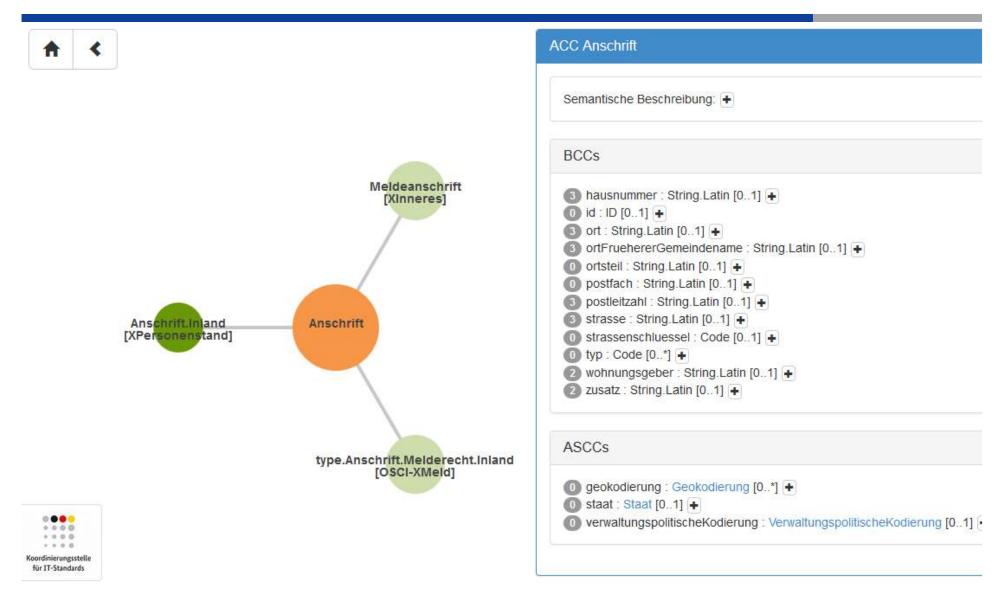


Components of the XÖV Framework





Core Components and InteropBrowser







www.xoev.de www.xrepository.de

Lutz Rabe | kosit@finanzen.bremen.de



Further Readings

- F. Büttner, et al., Model-driven standardization of public authority data interchange (pdf, 355.5 KB), Science of Computer Programming (2013) 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