



SWISS LAND  
MANAGEMENT



**Standardized Data Modeling  
and its Benefits**

Michael Germann, Member  
SWISS LAND MANAGEMENT FOUNDATION  
The World Cadastre Summit , 20-24 April 2015, Istanbul Turkey



## Overview

1. Situation in Switzerland
2. INTERLIS Language
3. Benefits
4. Conclusions

SWISS LAND MANAGEMENT 

## Situation in Switzerland

The first version of the cadastral data model was introduced in 1993 (revised in 2001).

With the introduction of the geo information law **160 new data models** will be completed by end of 2016.

**INTERLIS** is the common modelling language to formulate all models of the GDI (since 1993).

Many computer assisted tools (compiler, checker, translators) support INTERLIS.

SWISS LAND MANAGEMENT



## INTERLIS Language Key Features

**System neutral** modelling language to describe relational or object-oriented data models.

**Directly process able** by modern software tools.

**XML based** data exchange.

**Compatible** with the relevant international Standards (UML, XML).

SWISS LAND MANAGEMENT



## Available Software Tools for INTERLIS

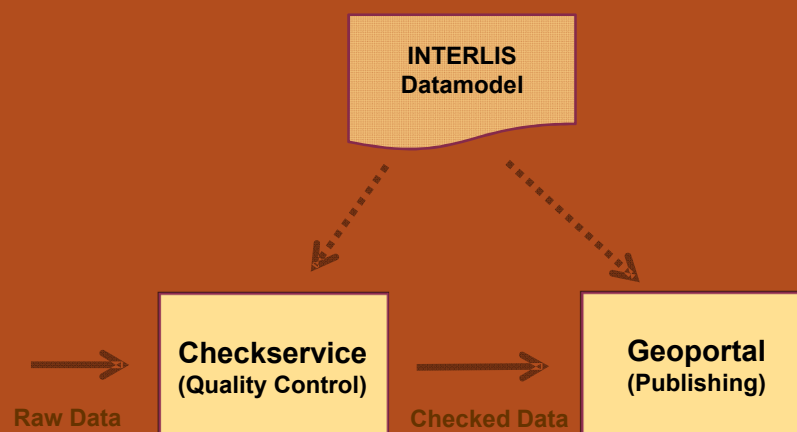
<b>Compiler</b>	Tests the syntactic correctness of INTERLIS models (free).
<b>Checker</b>	Validates XML data sets against a model (free & commercial).
<b>Other</b>	DB-Generator, Translators, UML-Editor, etc. (free & commercial).

see also [www.interlis.ch](http://www.interlis.ch) for more information

SWISS LAND MANAGEMENT

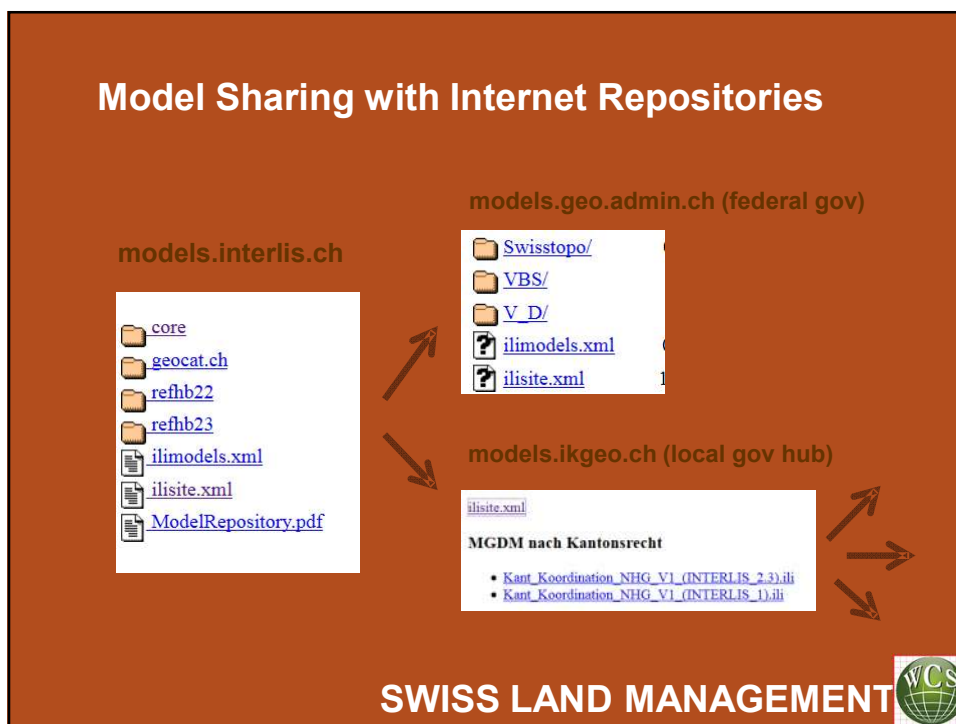
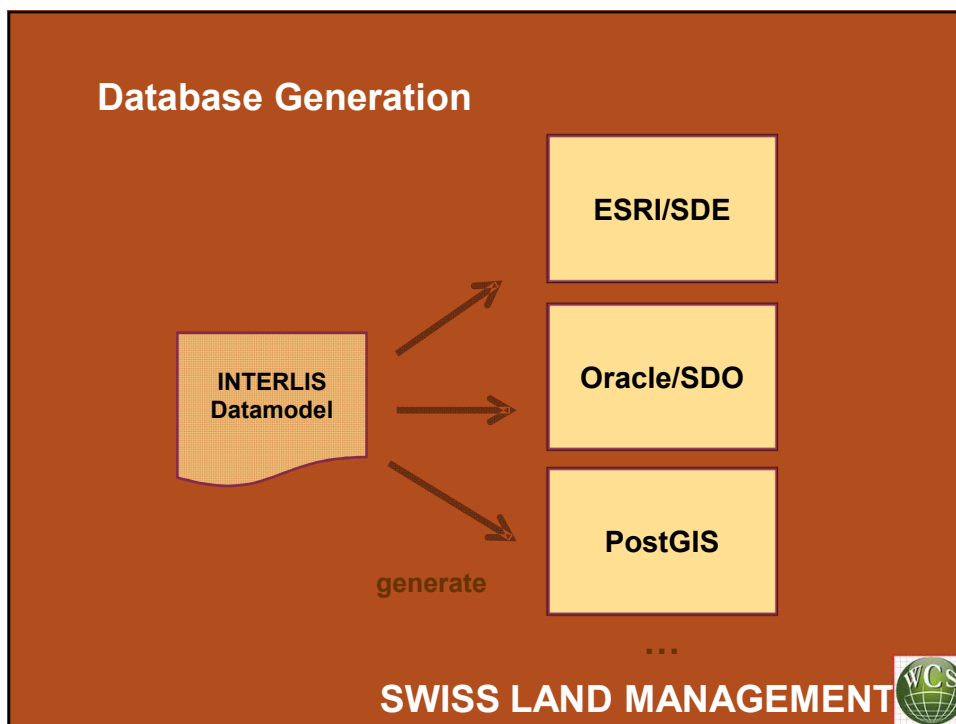


## Automated Quality Control



SWISS LAND MANAGEMENT





## Conclusion

- ✓ INTERLIS allows us to share standardized data models in multi vendor environments
- ✓ Automatic quality control of data becomes possible as the transfer format is directly derived from the data model
- ✓ In complex NSDI environments a common data modeling / data integration concept is key to success

**SWISS LAND MANAGEMENT**

A photograph of a man in a dark suit standing in a field of tall grass, holding a white map or document. The background shows rolling hills under a cloudy sky.

**SWISS LAND  
MANAGEMENT**

The logo for Swiss Land Management, consisting of a white square with a circular arrangement of red and yellow dots.

**Thank you for your attention ...**

**Michael Germann, Member  
SWISS LAND MANAGEMENT  
FOUNDATION**  
michael.germann@infogrips.ch  
infoGrips GmbH, Engineering & Consulting

The logo for the World Cadastre Summit (WCS), featuring a green globe with the letters 'WCS' in white.

The World Cadastre Summit, 20-24 April 2015, Istanbul Turkey