

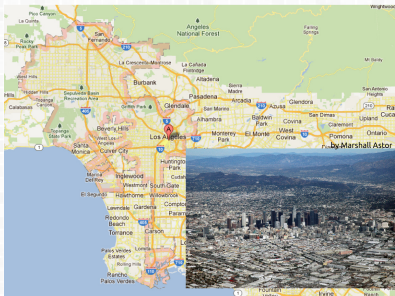
HETEROGENEITY-PRESERVING DATA INTEROPERABILITY: METHODS AND CHALLENGES

EARTH SCIENCE ONTOLOG SESSION 3

Krzysztof Janowicz & Pascal Hitzler

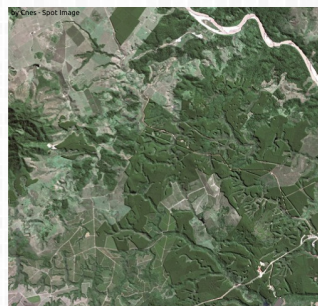
October, 2012

TOWN OR CITY?



- **California:**
City \equiv *Town*
- **Utah:**
Town \equiv $<$ (*population, 1000*)
- **Pennsylvania:**
Town \equiv {*Bloomsburg*}

WHAT DEFINES A FORESTS?



	Min area (ha)	Min crown cover (%)	Min tree height (m)	Strip Width (m)
France	0.05	10.0	5-7	25
Greece	0.5	10.0		30
Italy	0.2	20.0		20
Papua New Guinea	100.0	10.0	5.0	
Switzerland		20.0	3	25-50
United States	0.4	10.0	4.0	36

TODAY'S SESSION

- Dr. **Simon Scheider** (University of Muenster, Germany) - *What does it take to interoperate? Semantic interoperability revisited in terms of human digital communication.*
- Dr. **Prateek Jain** (IBM TJ Watson Research Center) - *Ontology matching and Data Interoperability using community generate data.*
- Mr. **Ben Adams** (UC Santa Barbara) - *Semantic Similarity Measurement for Geo-Ontologies.*
- Professor **Giancarlo Guizzardi** (Federal U of Espirito Santo, Brazil) - *Formal Ontology, Ontological (Anti-)Patterns and Model Simulation.*