Conclusions

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What we talked about

- Introduction
- Background in geospatial data modeling
- Geospatial data in the Semantic Web (extensions to RDF, stSPARQL and GeoSPARQL, spatial DLs, rules)
- Implemented systems (RDF stores, spatial DL reasoners, rule-based)
What we did not talk about: Tools

- Tools for translating GIS data (e.g., shape files or tables from a geospatial DBMS) into the geospatial extensions of RDF that we presented.
What we did not talk about: Representational issues

- What are appropriate vocabularies and ontologies for representing geospatial information? (GeoSPARQL only)
- Is the GeoSPARQL vocabularies/ontologies always appropriate?
- Is using the WKT/GML encoding of a spatial object always a good idea?
What we did not talk about: Theory

- **Semantics:** How do we extend the semantics of SPARQL, to give semantics to stSPARQL and GeoSPARQL?

- **Computational complexity of query processing:** What is the complexity of stSPARQL or GeoSPARQL querying?

- Same questions for DLs, OWL and rules.
Some open research questions

- More efficient geospatial RDF stores (can you beat Strabon?)
- Federations of geospatial RDF stores
- More expressive/efficient spatial DL reasoners
- Theory (extensions of SPARQL, extensions of DLs, extensions of SWRL)
- OWL 2 and geospatial (e.g., new data types)
- More efficient SWRL+spatial implementations
Thank you for Attending!

- Questions?
- Feedback?