

AI Planning—Week 1

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Brodaric *et. al.*—Enabling Cross-Disciplinary E-Science by Integrating Geoscience Ontologies with Dolce

Problem

- **Problem:** Ontologies typically designed for single scientific area
- Conflicts in designs
- No ontology for describing groundwater pollution
- Sweet - describes aquifers
 - Sweet - Semantic Web for Earth and Environmental Terminology
- GeoSciML - describes rocks

- Use a more general ontology to “bridge” between the two
- Dolce - Descriptive Ontology for Linguistic and Cognitive Engineering
- Final ontology - Dolce Rocks

Approach

- Map each to Dolce, then to each other.
- GeoSciML:
 - Dolce properties connect GeoSciML classes

Questions?