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3D geological models interoperability

(An attempt of) Overview of problematics and solutions

99th OGC Technical Committee – 3D Geoscience borehole ad-hoc meeting Dublin, Ireland

Mickaël Beaufils & Christelle Loiselet - BRGM 22 June 2016

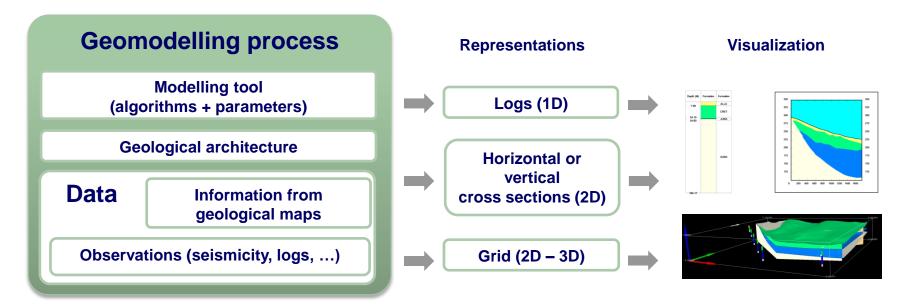






What is a geological model (made of)?





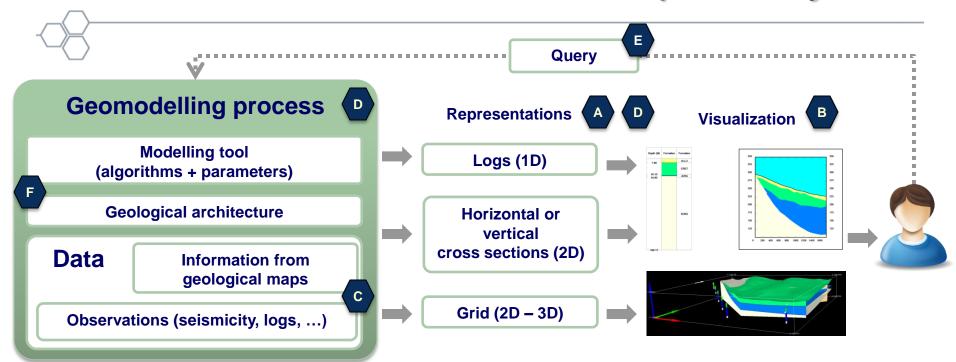
Some definitions:

- Model vs. Representation vs. Visualization [Perrin & al, 2013]
- Geological model definition: process vs. process result





Where can we enhance interoperability?

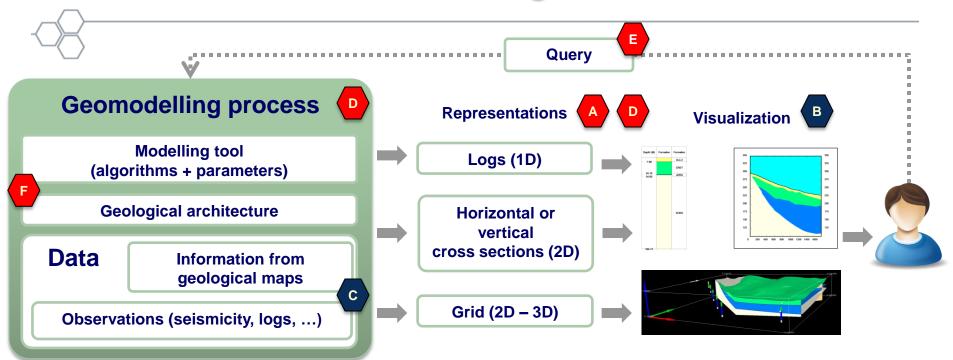


- A Provide representations with (OGC) standards
- B Optimize visualization: a client issue?
- Enhance (OGC) standards support as inputs for modelling tools
- Associate metadata to the representations and processes
- Build an interface to query geological models
- Share geological architecture and standardise its expression





What we are working on at BRGM



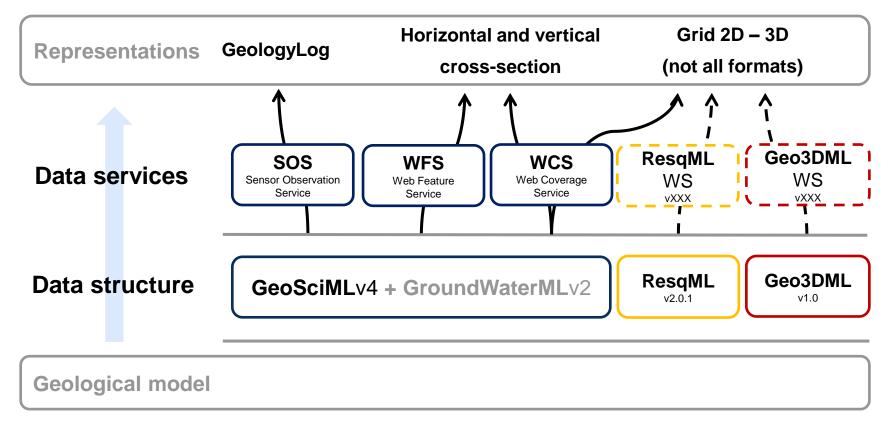
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Providing representations with (OGC) standards



















Some pieces of the puzzle







