The limits of interoperability

Model fusion needs more than technical solutions

Robert Pamer (Bavarian Environment Agency)
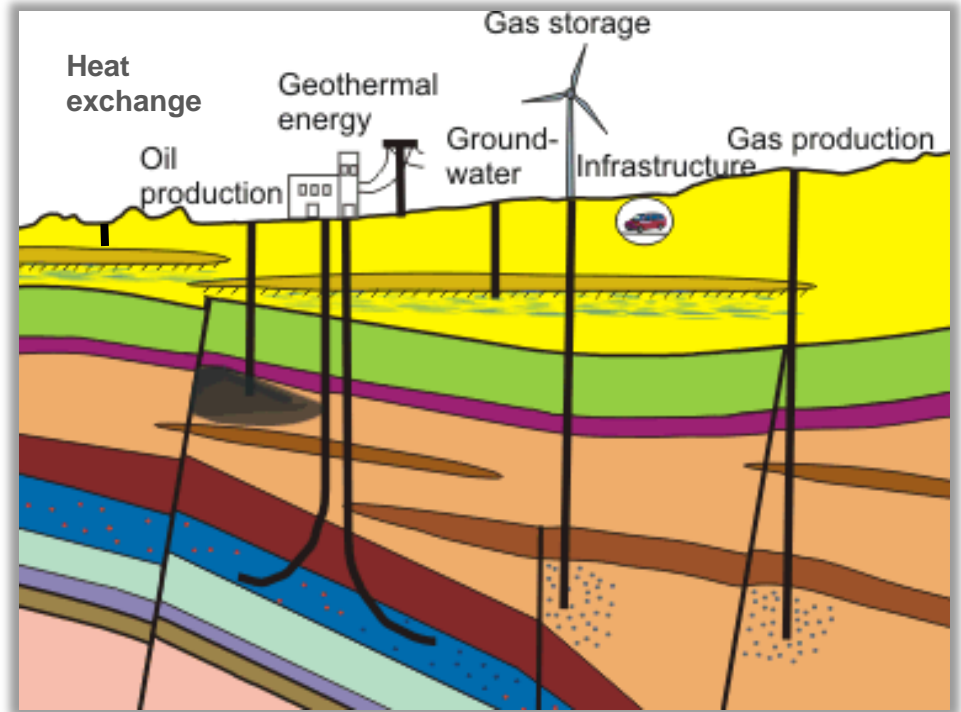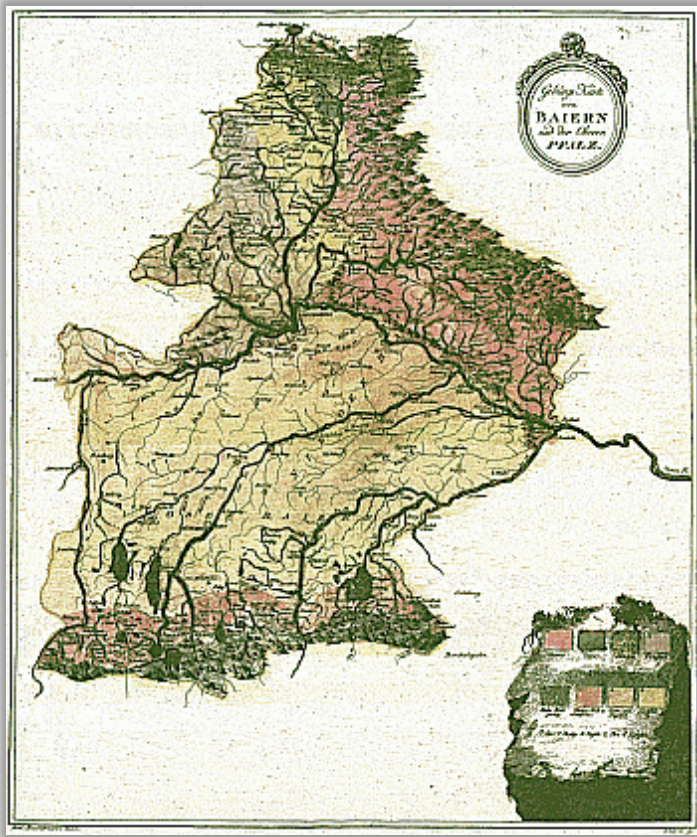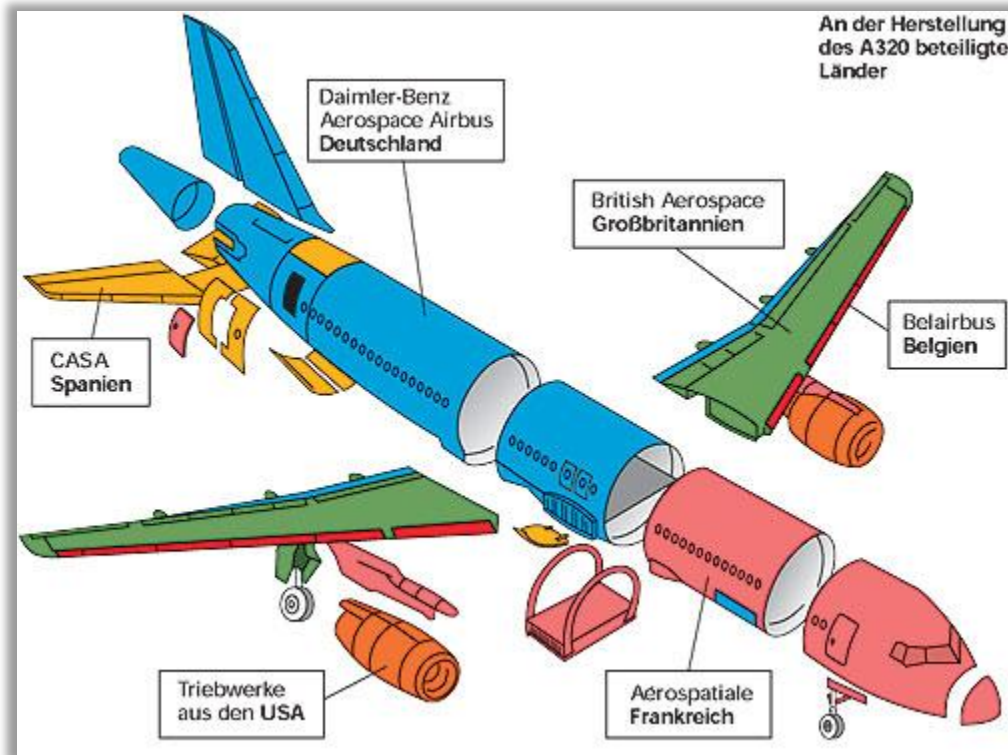and
the GeoMol-Team

Geology does not end at political borders!

Geology does not end within administrative bodies!

Cooperation

www2.klett.de

www2.klett.de

Cooperation

Structure

FR	CH	BW	BY	A

Quaternary [Q]

Upper freshwater molasse [OSM]

Upper marine molasse [OMM]

Upper marine molasse [OMM]

Younger lower (freshwater) molasse [UMJ]

Younger lower (brackish) molasse [UMJ]

Oldest Upper marine molasse [OMME]

Younger lower (marine) molasse [UMJ]

Older lower (marine) molasse [UMA]

Older lower (marine) molasse [UMA]

Oldest molasse / Perwang Group [UME]

Cretaceous [K]

Upper Cretaceous [KU]

Swabian & Helvetic facies of Upper Jurrasic [JU]

Germanic facies of Upper Jurassic [JU] (incl. Purbeck)

Middle Jurassic [JM]

Uppermost Triassic (Rhaetian) – Lower Jurassic [R-JL]

Triassic (without Rhaetian) [Tr]

Basement [B]

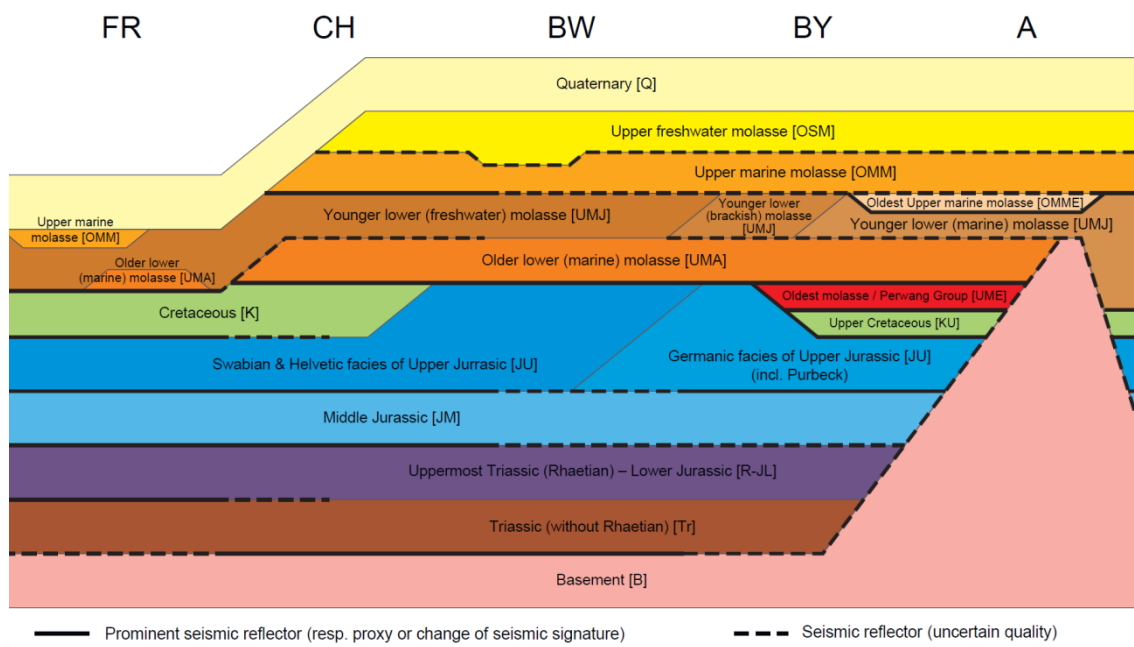— Prominent seismic reflector (resp. proxy or change of seismic signature)   - - - Seismic reflector (uncertain quality)

dpa/Andy Rain; www.focus.de

techgenmag.com

Lufthansa; www.spiegel.de

Standards / Tools

dapd; www.n-tv.de

www.fotolia.com

Marcelo Hernandez; www.abendblatt.de
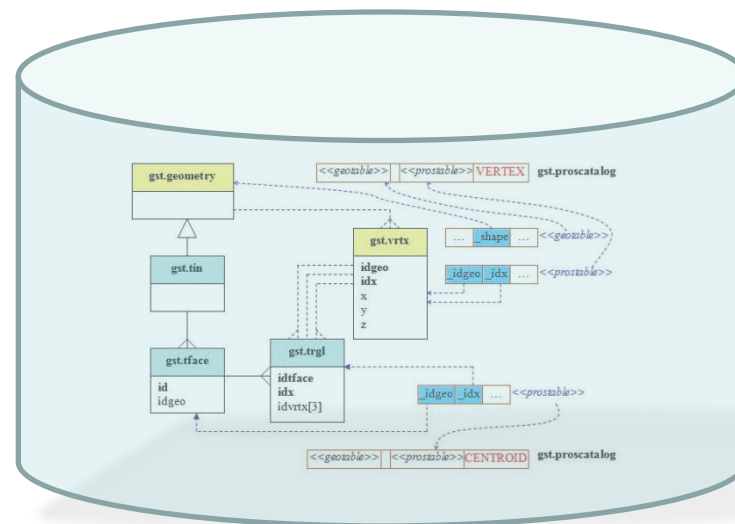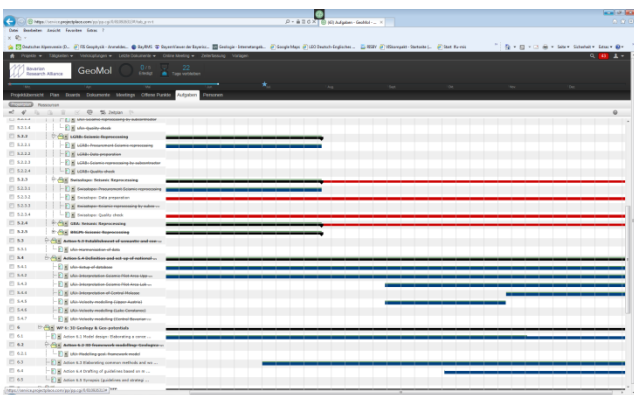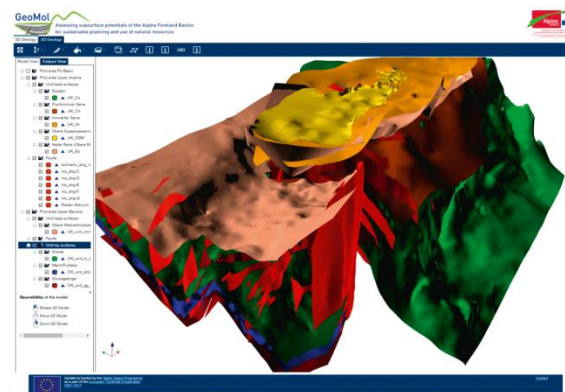
Standards / Tools

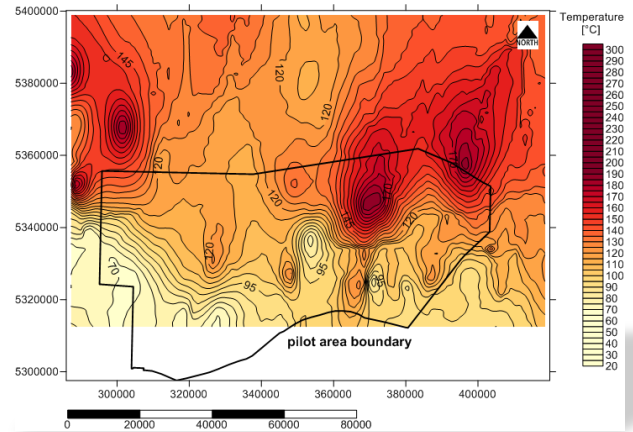Processes

Technology

Communication
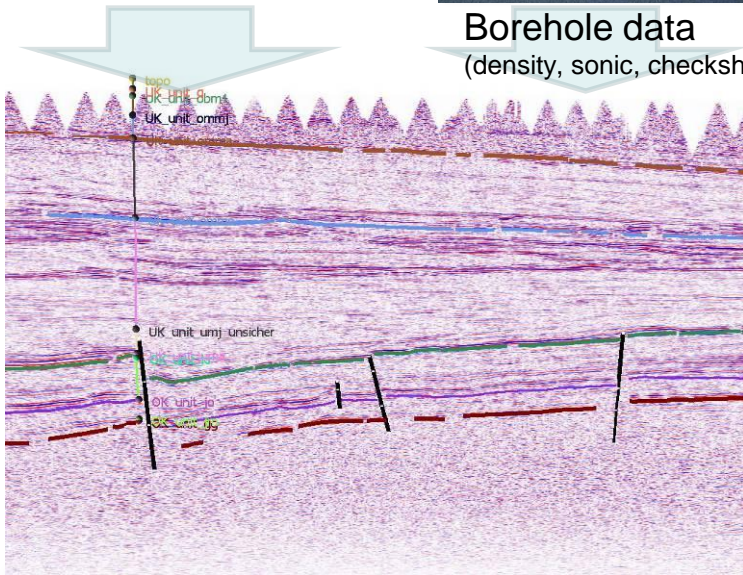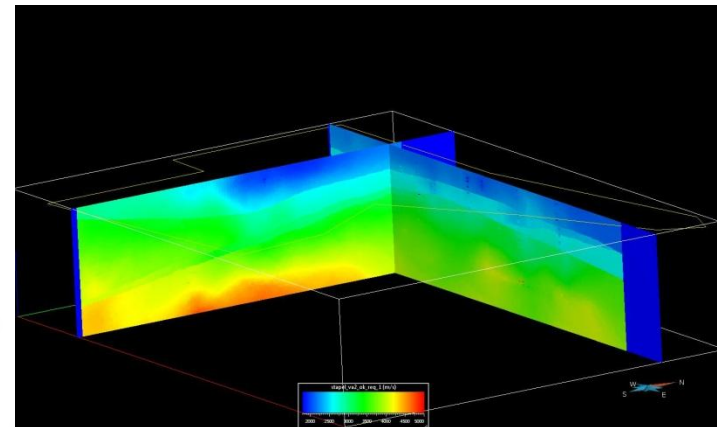
Delivery

Standards / Tools (examples)

unmigrated 2D seismics
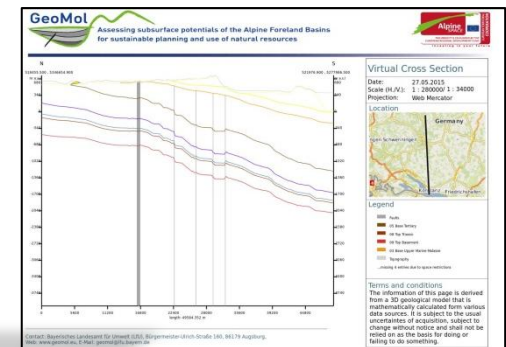
Borehole data
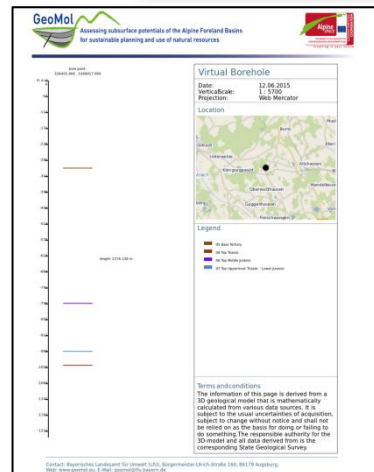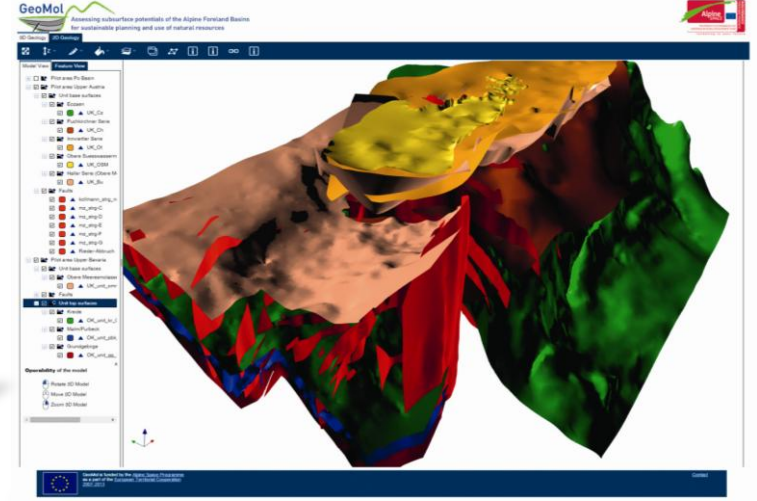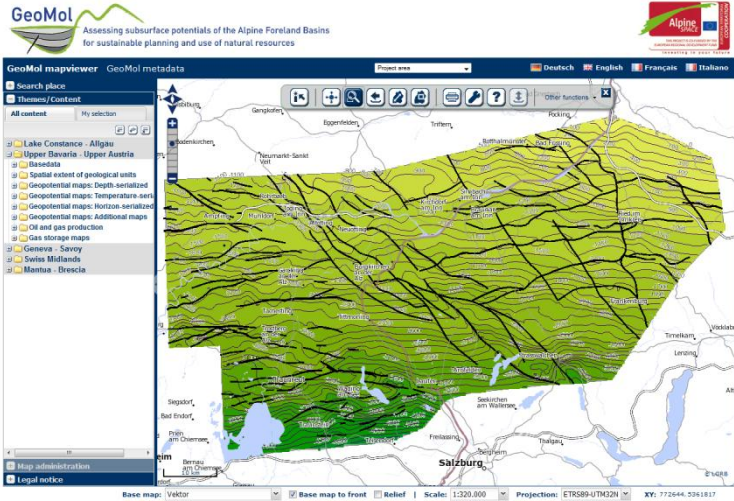(density, sonic, checkshot)

Temperature models

migrated 2D seismics

Velocity models

Standards / Tools (examples)

Peculiarities

Philippe Wojazer/AP; www.stern.de
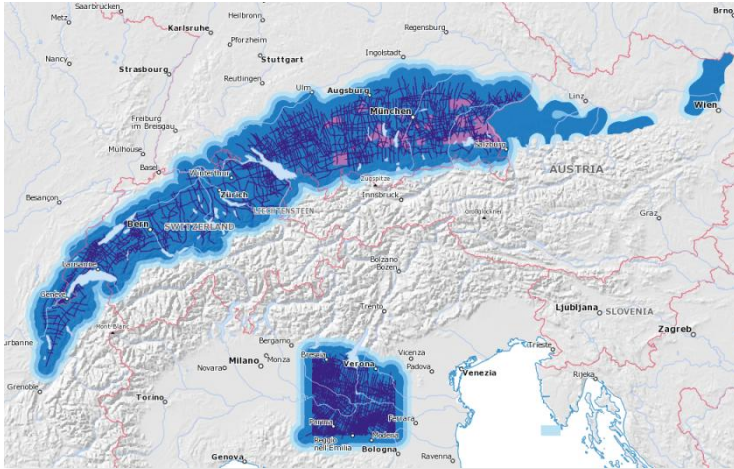

REUTERS; www.faz.net

www.bundestag.de

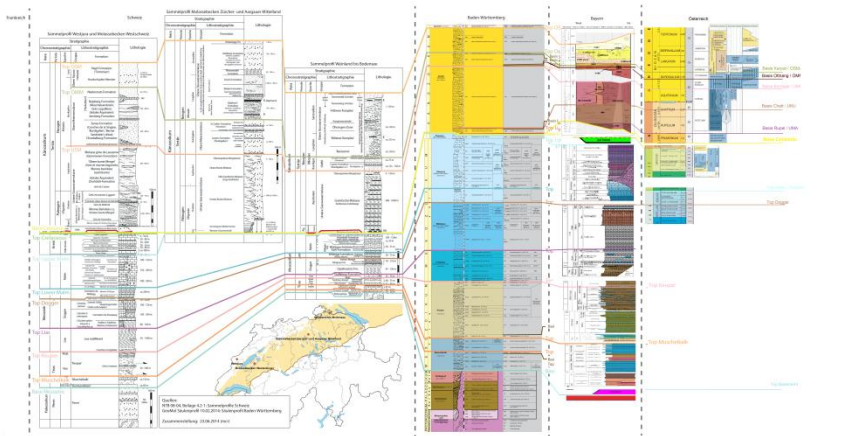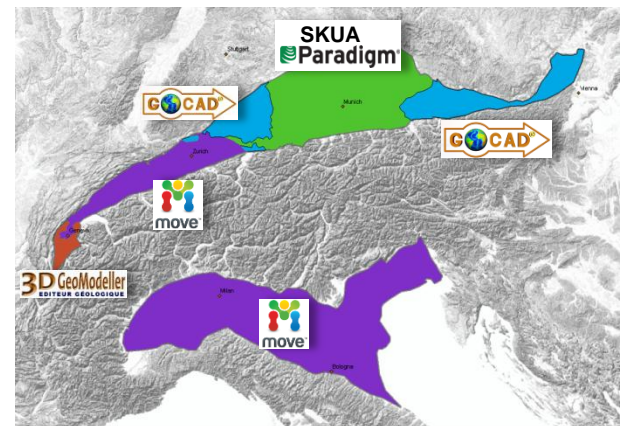Picturealliance/dpaREUTERS; dw.de

Peculiarities

Legal data restrictions

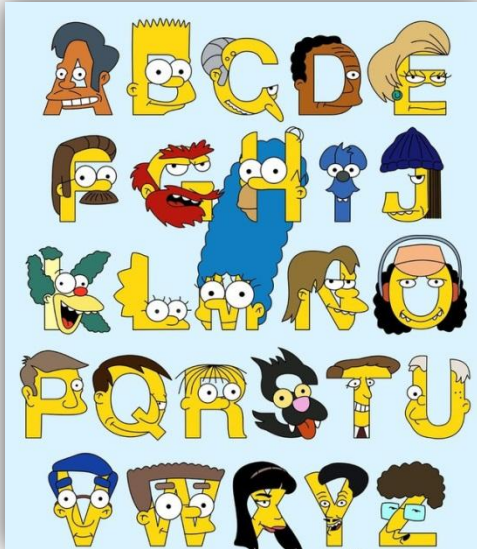(Self) imposed technical limitations

Local perspective on the issues
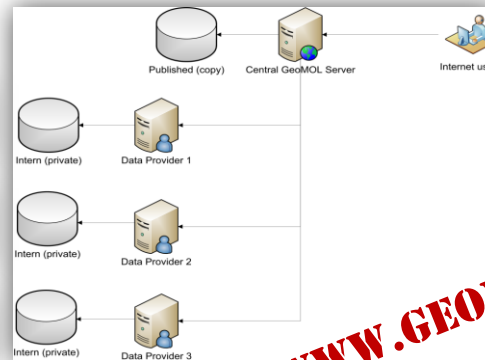

Individual workflows

In the end…

geekologie.com

www.bizipic.de

WWW.GEOMOL.EU

… it's not the end!