



EGS Reservoir Creation

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EGS – Reservoir creation

Different geological / geothermal conditions in the three countries

Where is the focus?

- Australia – Sedimentary hydrothermal systems & hot radiogenic rocks
 - Deep drilling > 3.500 m
 - EGS – Cooper Basin
- Iceland – Volcanic & fractured hydrothermal systems
 - Shallow drilling < 3.500 m
 - IDDP
- US – Volcanic, fractured & sedimentary hydrothermal systems
 - Shallow drilling < 3.500 m
 - EGS – Coso experience



The Icelandic focus ...

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... has not been on EGS geothermal reservoir creation so far

- Iceland has abundant hydrothermal systems available
- Volcanic high temperature systems and fissure swarms
- The focus is on the fractures and fault zones
- Well stimulation is common as part of well completion
 - Cold water injection (low pressure 50 – 80 bar)
 - Thermal stimulation
 - Controlled well discharge (well washing)
- EGS methods
 - To enhance existing hydrothermal systems
 - To create geothermal reservoirs

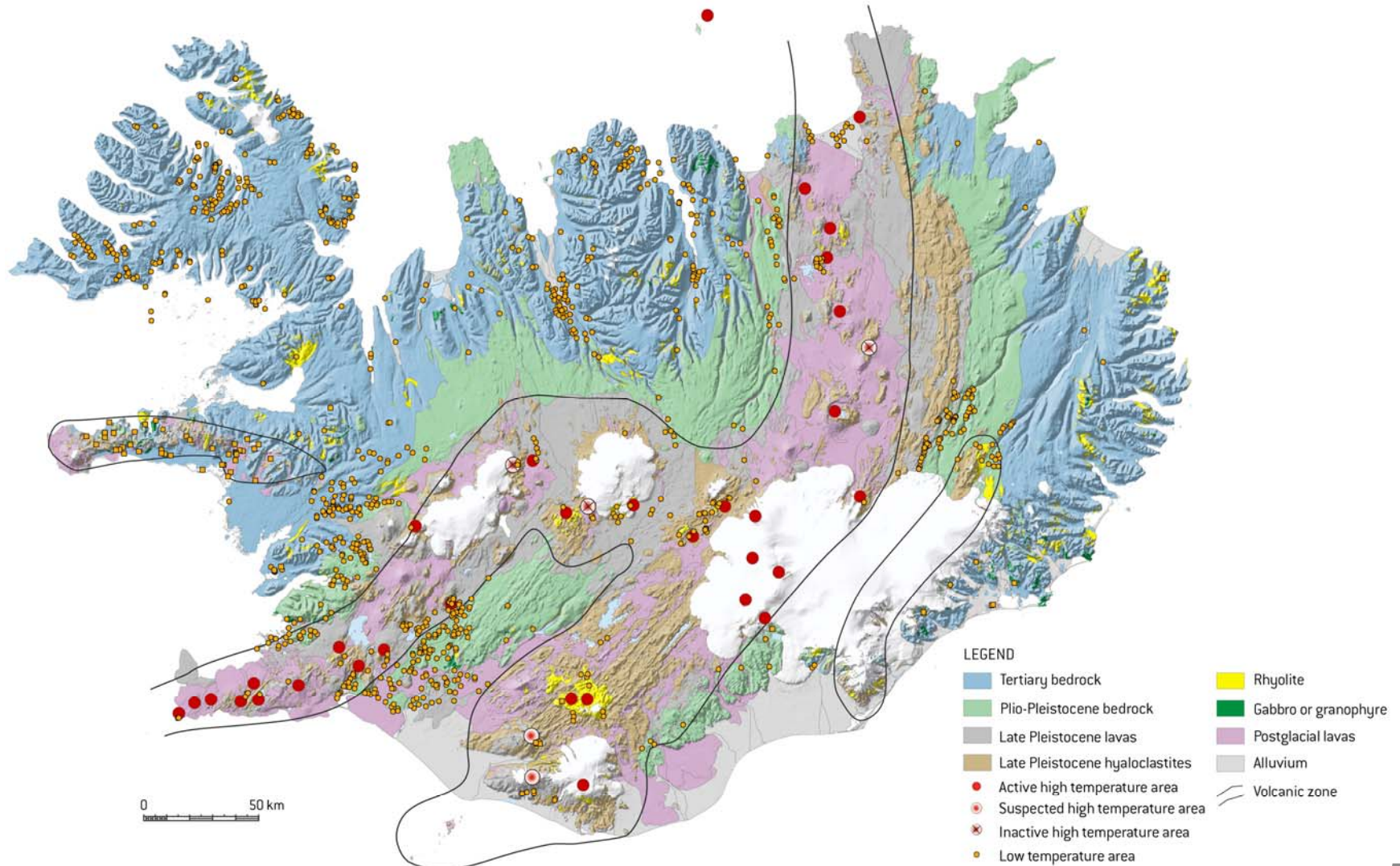


Research topics – Specific projects

Areas of interest of the Icelandic geothermal community

- Hydrofracturing
 - Packers and high pressure
- Rock mechanics & stress field analysis
 - Borehole image tools
- Microseismic monitoring for flow path identification
 - Sheer wave splitting
- Modeling and 3-D visualization

Huge potential if reservoir creation comes possible





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