



Data Atelier for Enhanced Geothermal Systems

Enhanced Geothermal System (EGS)



EGS generates electricity by pumping water down the injection well into a naturally fractured **hot dry rock** (HDR) and performing hydro-shearing.



Geological investigations are essential during **exploration**, economic assessment and production of geothermal resources.



EGS costs are dependant on the temperature of resource, fluid flow in the system, drilling and power conversion **efficiency**.



Electrical energy is converted from the hot water forced out of the second borehole by steam turbines or binary **power plant** systems.



Why is EGS important?



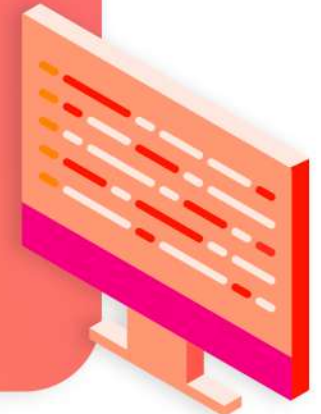
➤ **EGS** could be the answer to achieving **net zero emissions**, with low **carbon** energy produced & abundant **electrical** energy potential.

➤ An operating geothermal power plant can produce **cheap, predictable, reliable & renewable** energy supply for many years.



➤ An **EGS** can be built anywhere, as long as it is **far from faults** & able to drill deep enough to tap into the **HDR**. However, **seismic hazards** such as earthquakes & subsidence continue to be concerns of EGS.

➤ Geothermal professionals continue to seek **technological advancements** such as in **data analytics & processing** to help make effective early plans & evaluations, as well as **cost-efficient** decisions.



How Data Atelier can help in Enhanced Geothermal Systems

Thorough & Seamless Search Tool



- Find **correlation** between drillholes and extracted images (cores or thin sections).
- Gain fresh new **perspectives** on old & new data for **better results**.

Streamlined Workflow



- Geothermal engineers, drillers & geologists require a **systematic** method to **collaborate**.
- With further processing, files can be **classified & categorized** based on content.
- **Simplify** workflow and model design using Data Atelier's **data processing** derivatives.

Centralized Scheme & Structure



- Maps, models, spreadsheets, & many other files from **geothermal processes** (e.g. exploration) will be **centralized**.
- **Easy access** across all departments of the organization.
- **Decision making** will be far easier.

Enhanced Interpretation

- Make fiscal & technical analyses more systematic through tools for **in-depth & rapid comprehension**.
- **Visualize & monitor** the ingested data extracted from files.



Discovery & Extracting Data

- Vast amount of **numerical data** produced such as heat & electrical energy records is **easily monitored**.
- **Discovery & extraction** of geothermal data will be **facilitated**.



Protection & Future-proofing

- **Sensitive data** such as geothermal plant policies & leases, safety & environmental policies, & risk assessments reports will be **protected**.



Talk to us!

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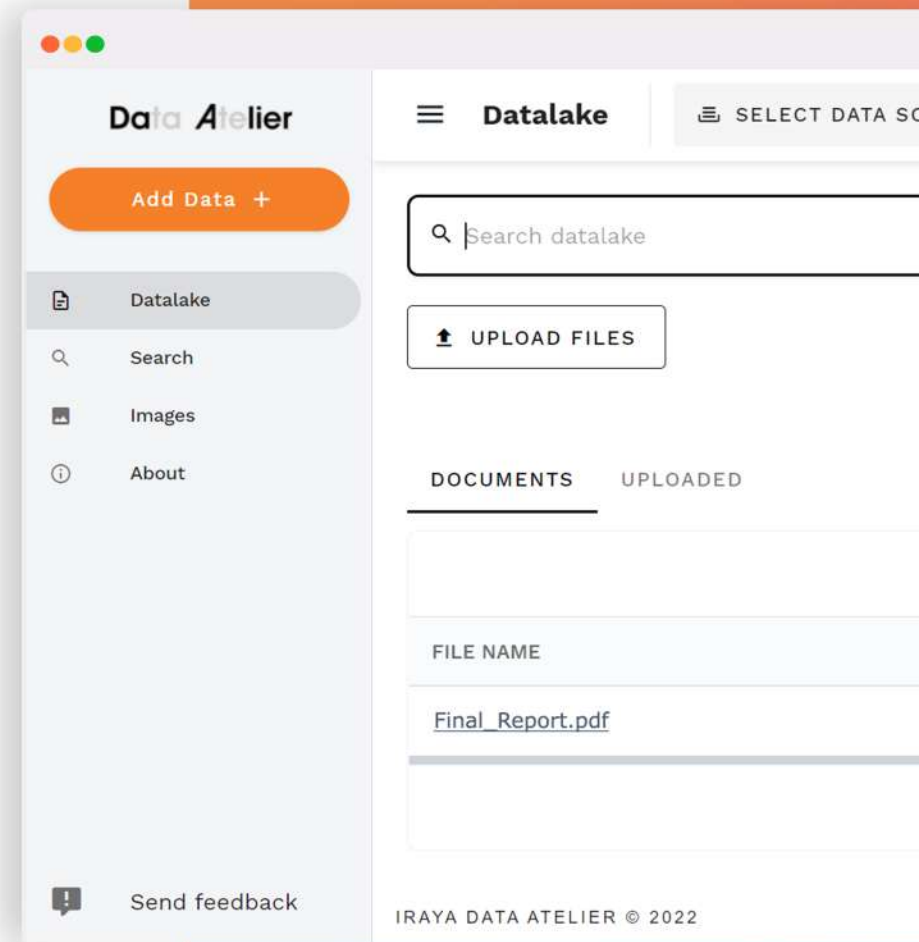
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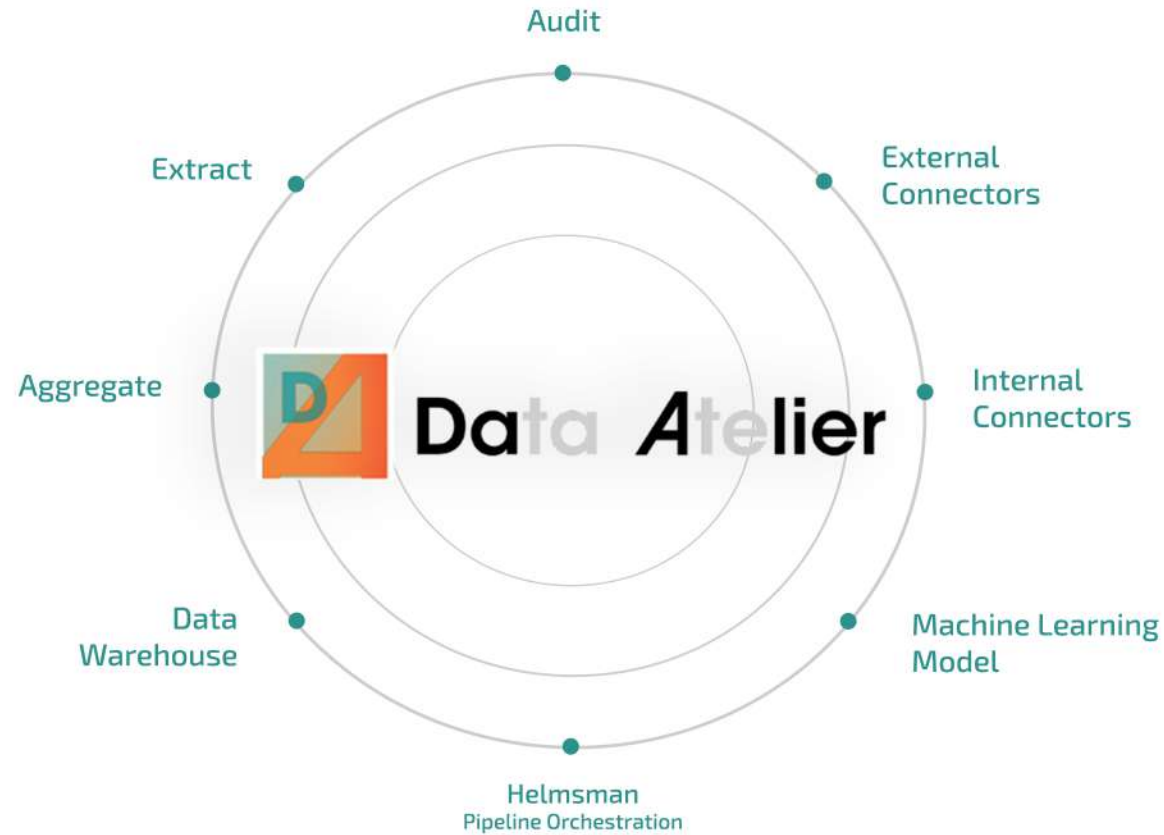
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Locate your data
across a mess of silos



Data Atelier





Manage and transform your data for a seamless unstructured data discovery
Start exploring your unstructured data today at

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