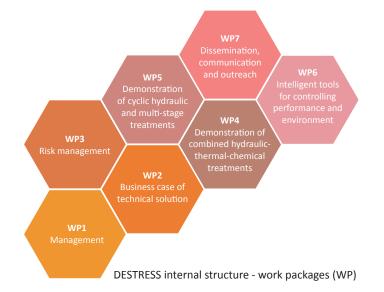


DESTRESS demonstrates methods of enhanced geothermal systems (EGS). The aim is to expand knowledge and to provide solutions for a more economical, sustainable and environmentally responsible exploitation of underground heat. EGSs allow the enormous untapped potential of geothermal energy to be put to widespread use.

The concepts explored in DESTRESS are based on experiences in previous projects and on scientific progress and developments in other fields, mainly the oil and gas sector. Recently developed stimulation methods will be adapted to geothermal needs, applied to new geothermal sites and prepared for market uptake.



The overall objective of DESTRESS is to develop good practices for creating reservoirs with increased transmissivity, sustainable productivity and a minimised level of induced seismicity.

DESTRESS will improve the understanding of technological, business and societal opportunities and risks related to geothermal energy. Existing and new project sites have been chosen to demonstrate the DESTRESS concept. These demonstration sites are using soft stimulation treatments to minimise environmental hazards.



#### How do we define Soft Stimulation?

Soft stimulation is a collective reservoir performance while thermal stimulation.



To demonstrate the DESTRESS concept, seven sites with different geological settings and access to a reservoir by means of geothermal wells have been chosen: Haute-Sorne, Soultz-sous-Forêts, Klaipeda, Rittershoffen, Pohang, Westland, and Mezőberény (to come soon). As their success is subject to a number of uncertainties, two fallback options have been identified in case of unforeseen developments such as problems with the well drilling: Groß Schönebeck and Middenmeer.

#### DESTRESS is a Horizon 2020 supported Academic Partners Industrial Partners programme. It brings together an international consortium comprising GFZ major academic and research institu-University EnBW Helmholtz-Zentrum of Glasgow tions and key industrial players from GÉOTHERMIE Europe and South Korea to ensure enhanced EGS technology performance and accelerated market penetration. for life **ETH** zürich GTN Stakeholder Network **DESTRESS'** stakeholder network nex ENERGIE facilitates the exchange of good practices. Become a part of it! www.destress-h2020.eu/stakeholders КІСТ ECV Netwerk WESTLAND

### Demonstration of Soft Stimulation Treatments of Geothermal Reservoirs

## Acronym: DESTRESS

Call: H2020-LCE-2015-2

**Topic:** Low Carbon Energy, LCE-03-2015: Demonstration of renewable electricity and heating / cooling technologies (IA)

## Grant Agreement Number: 691728

Duration: 48 months, 1 March 2016 - 28 February 2020

**Estimated Costs:** € 25 072 511,25

# **EU Contribution:** € 10 713 408,63

**Project Lead:** Helmholtz Centre Potsdam, GFZ German Research Centre for Geosciences

**Partners:** 16 European and East Asian research institutions, universities and industry representatives (large energy suppliers and SMEs)

DESTRESS

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