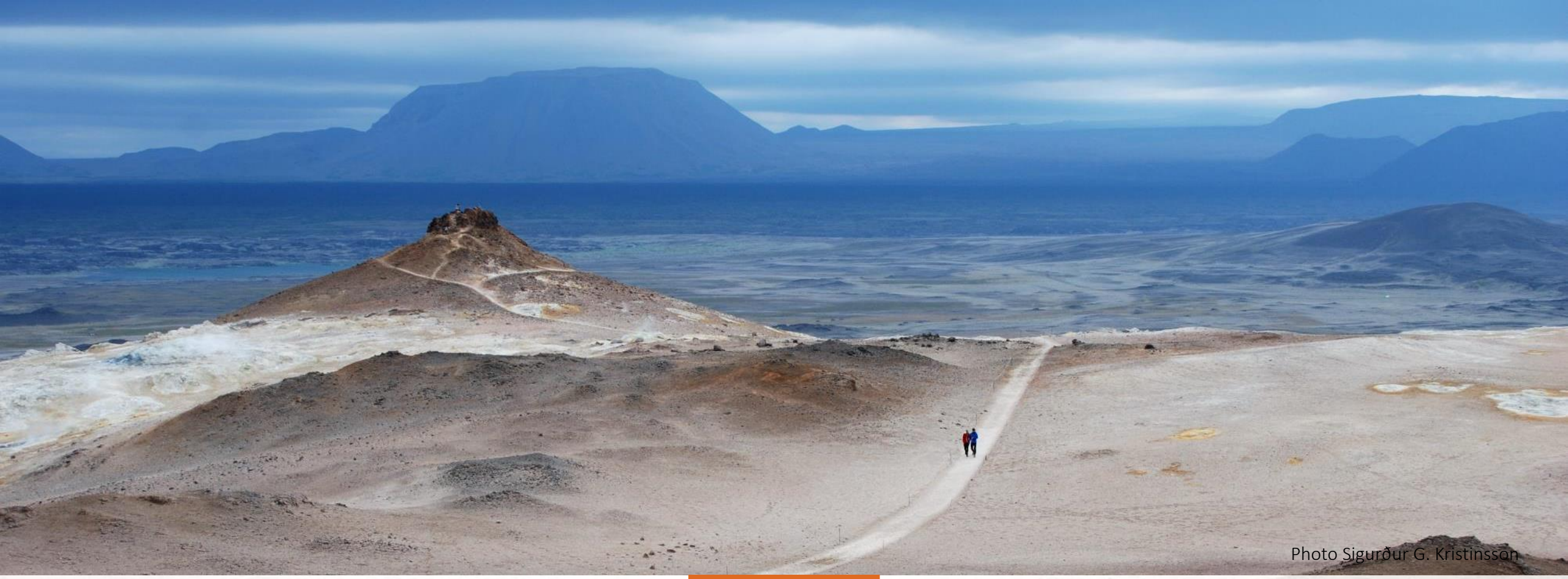


Photo Sigurður G. Kristinsson

ÍSOR – ICELAND GEOSURVEY

Bjarni Richter, Head of Marketing and Business Development

Photo Niels Giroud

ÍSOR – ICELAND GEOSURVEY

- Owned by the Icelandic government.
- Provides specialized services to the Icelandic power industry, the Icelandic government and international companies.

75 YEARS OF EXPERIENCE

- The roots lie back in 1945, but as ÍSOR since 2003

HUMAN RESOURCES

- Geologists
- Physicists & Geophysicists
- Engineers & Tecnologists
- Chemists & Geochemists
- Other Academic Education
- Other Education

60 Employees

ÍSOR

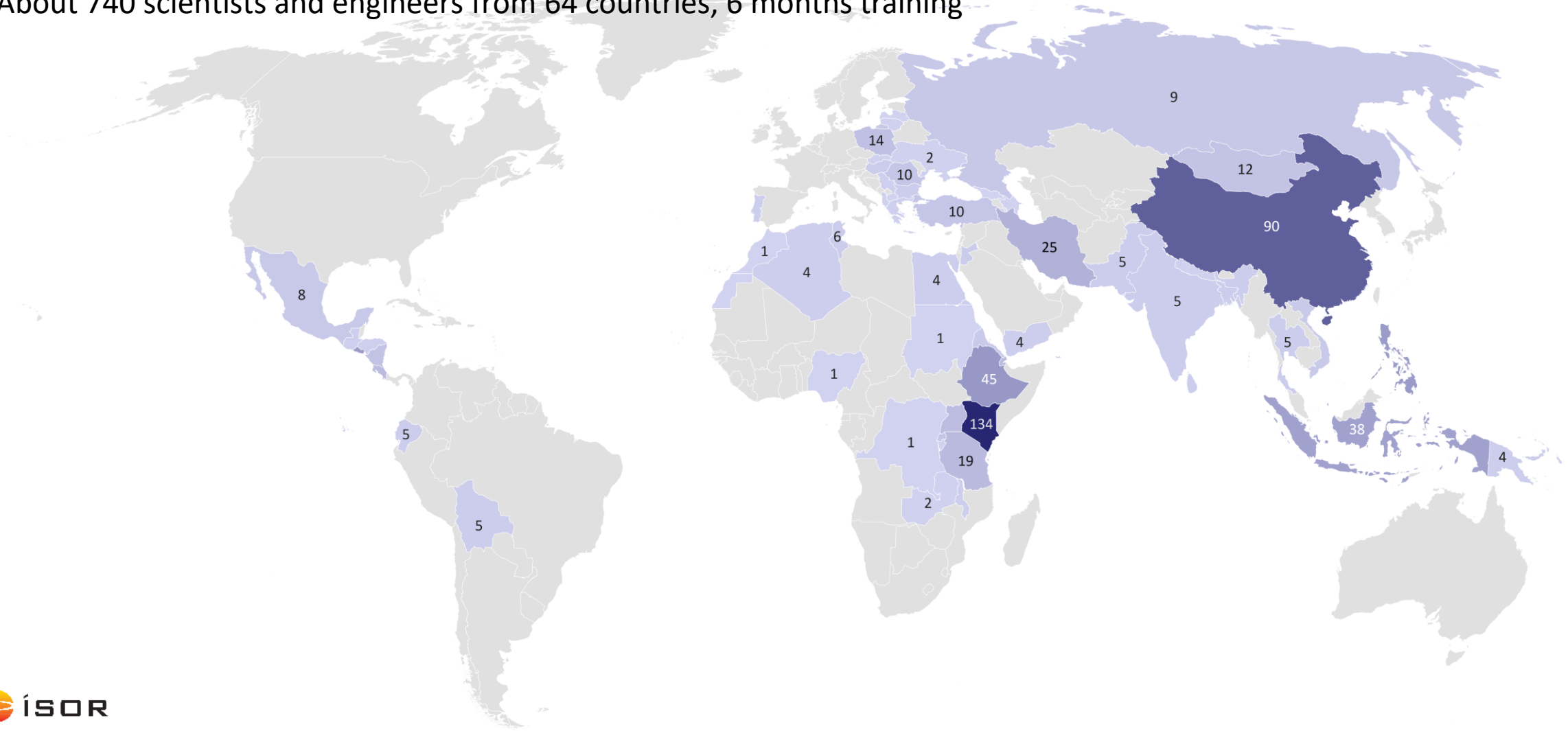
SERVICES

- Geothermal exploration
- Drilling consultancy
- Well logging and mud logging
- Well testing and evaluation
- Resource assessment and management
- Geothermal training
- Environmental studies
- Groundwater studies
- Engineering geology
- Offshore exploration
- Information technology

Photo Sigurður G. Kristinsson

TRANSFER OF GEOTHERMAL KNOWLEDGE 1979-2021 THROUGH GRÓ-GEOTHERMAL TRAINING PROGRAM, HOSTED BY ÍSOR.

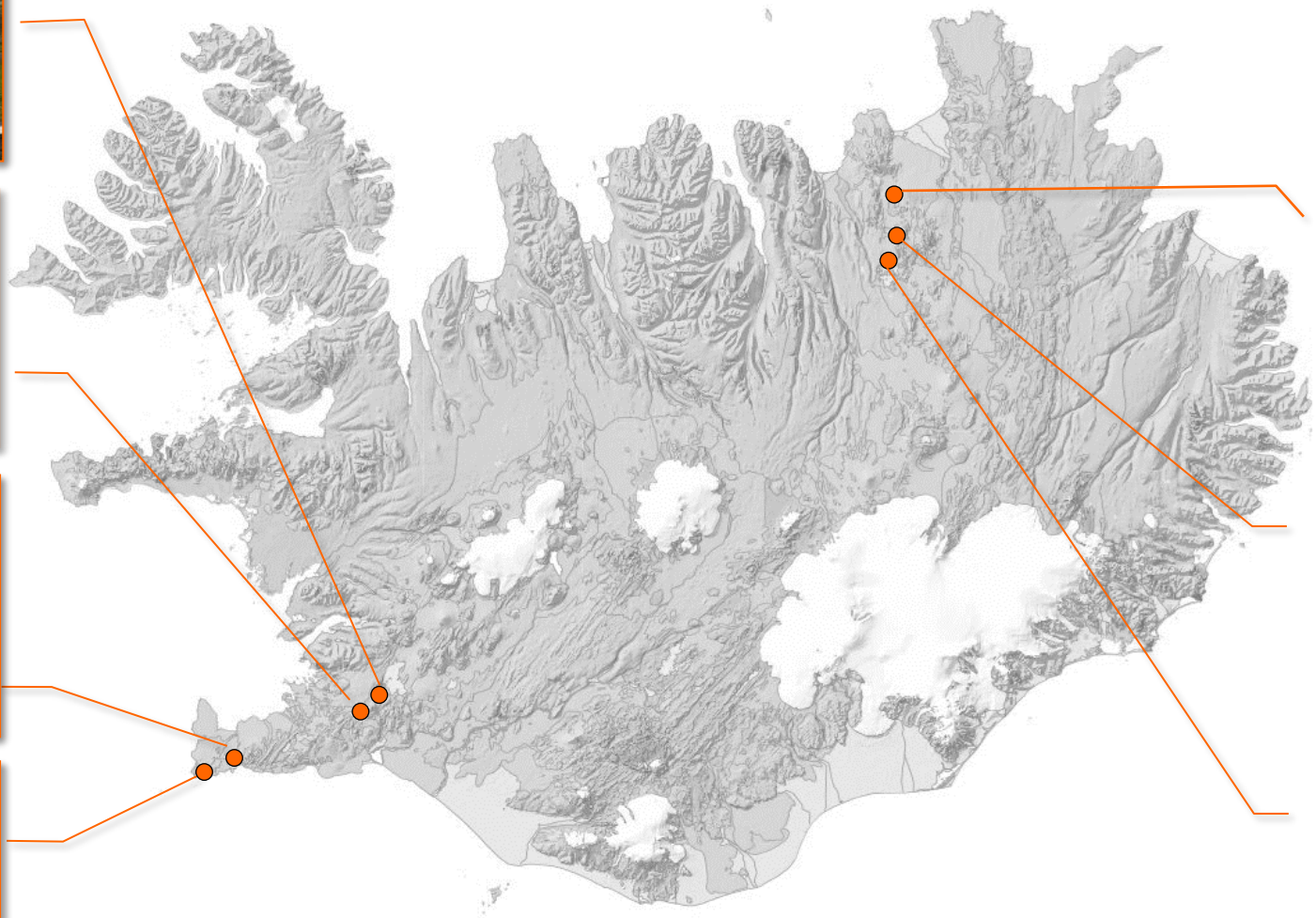
About 740 scientists and engineers from 64 countries, 6 months training



ÍSOR

GEOTHERMAL UTILIZATION IN ICELAND

GEOTHERMAL POWER STATIONS IN ICELAND



Total 753 MWe

Iceland GeoSurvey has been a key actor in all development of geothermal power production in Iceland.

GEOTHERMAL DISTRICT HEATING

- Iceland GeoSurvey has been a key actor in all developments of district heating in Iceland.
- A few key figures for geothermal district heating systems in Iceland:
  - Reykjavik Energy: 1000 MWth
  - Húsavík: 40 MWth
  - HS Orka: 150 MWth
  - Hveragerði: 65 MWth
  - Akureyri: 80 MWth

SOME DIRECT UTILIZATION OF GEOTHERMAL ENERGY IN ICELAND

- DISTRICT HEATING – ABOUT 90% OF ALL HOUSES IN ICELAND ARE HEATED WITH GEOTHERMAL
- BATHING AND SWIMMING – SPAS AND PUBLIC SWIMMING POOLS
- AQUACULTURE, SUCH AS FISHFARMING IN REYKJANES PENINSULA
- DRYING OF FISH PRODUCTS, AND OTHER TYPES OF FOOD PROCESSING
- SALT PRODUCTION FROM SEAWATER – NORÐURSALT AND SALTVERK
- SEAWEED PROCESSING PLANT AT REYKHÓLAR BY ÞÓRVERK
- AGRICULTURE, GREENHOUSE GROWING
- PRODUCTION OF METHANOL IN SVARTSENGI
- CO_2 PRODUCTION, HÆÐARENDI
- DIATOMITE PLANT AT MYVATN
- SNOW MELTING / DE-ICING

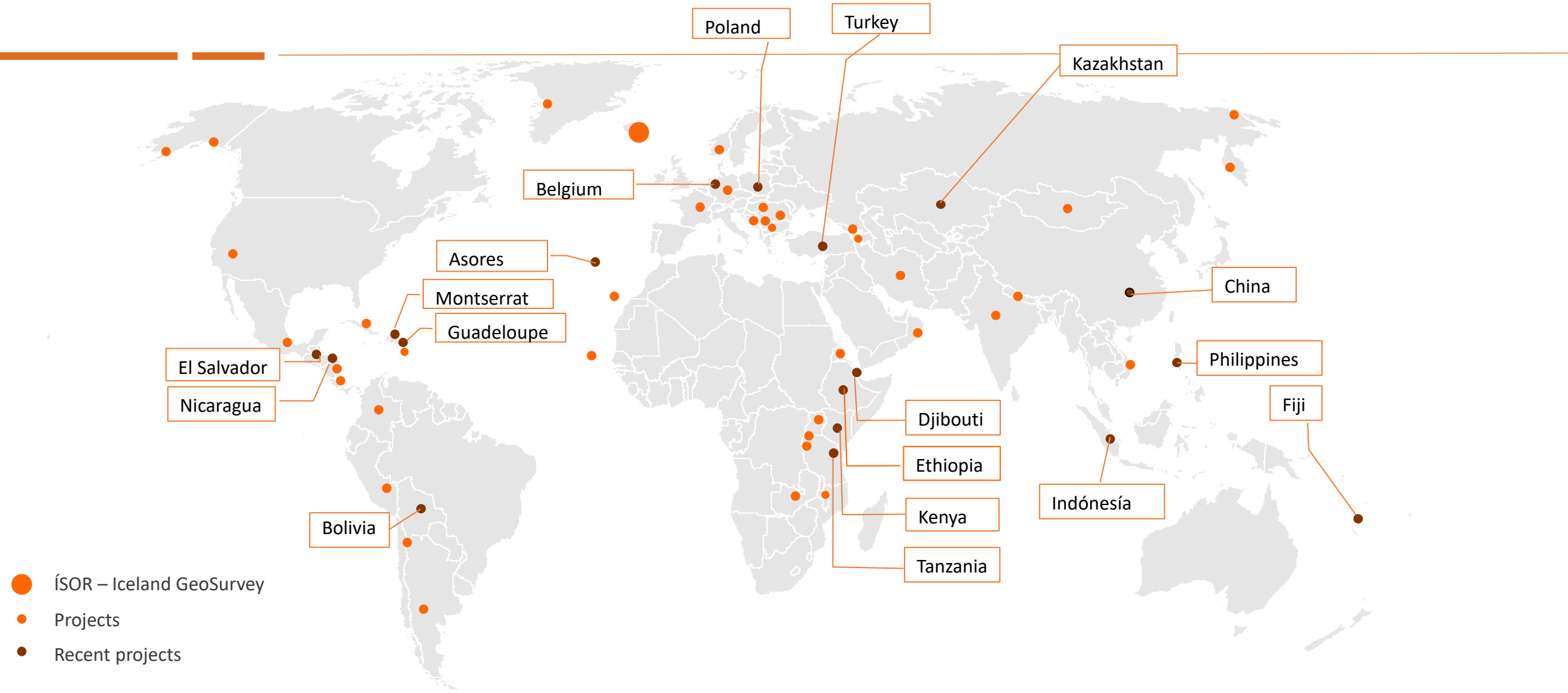
Photo Gylfi Páll Hersir

INTERNATIONAL ACTIVITIES

Geothermal experience

ÍSOR

ÍSOR PROJECTS AROUND THE WORLD



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SOME ÍSOR PROJECTS IN EUROPE

Often in co-operation with other Icelandic companies

Sao Miguel and Terceira, Azores Islands (Portugal)

- Flow testing of wells and recommendations for further development
- Conceptual modelling
- Siting and design of wells
- Power plant consultation
- Geothermal training

Holland, Belgium

- Well logging and reservoir consultation

Germany

- Well siting
- Consultation on geothermal development and resource assessment in Molasse

France
Rheingraben and Guadeloupe

- Monitoring of flow test, evaluation of flow data, Tracer Flow Measurements (TFT), Stimulation
- Monitoring of temperature and pressure changes in the reservoir Study of well integrity (calcite scaling and/or casing problems)

Turkey

- Consultation for World Bank in promoting exploration drilling
- Consultation for Turkish Developing Bank on exploration drilling
- Flow testing and interference testing
- Exploration consultation in several areas, high and low enthalpy
- Consultation on development and resources

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THANK YOU

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