

TRANSENERGY: TRANSBOUNDARY GEOTHERMAL ENERGY RESOURCES OF SLOVENIA, AUSTRIA, HUNGARY AND SLOVAKIA

Teodora Szocs³, György Tóth³, Daniel Marcin⁴, Annamária Nádor³, János Halmai³, Thomas Hofmann², Radovan Černák⁴, Gerhard Schubert², Andrej Lapanje¹, Erika Kováčová⁴, Ágnes Rotár-Szalkai³, Gregor Goetzl²

1 Geological Survey of Slovenia, 2 Geological Survey of Austria, 3 Geological Institute of Hungary, 4 State Geological Institute of Dionyz Stur

Project basic information

Central Europe Programme, Application Round 2, Priority 3: Using our environment responsibly

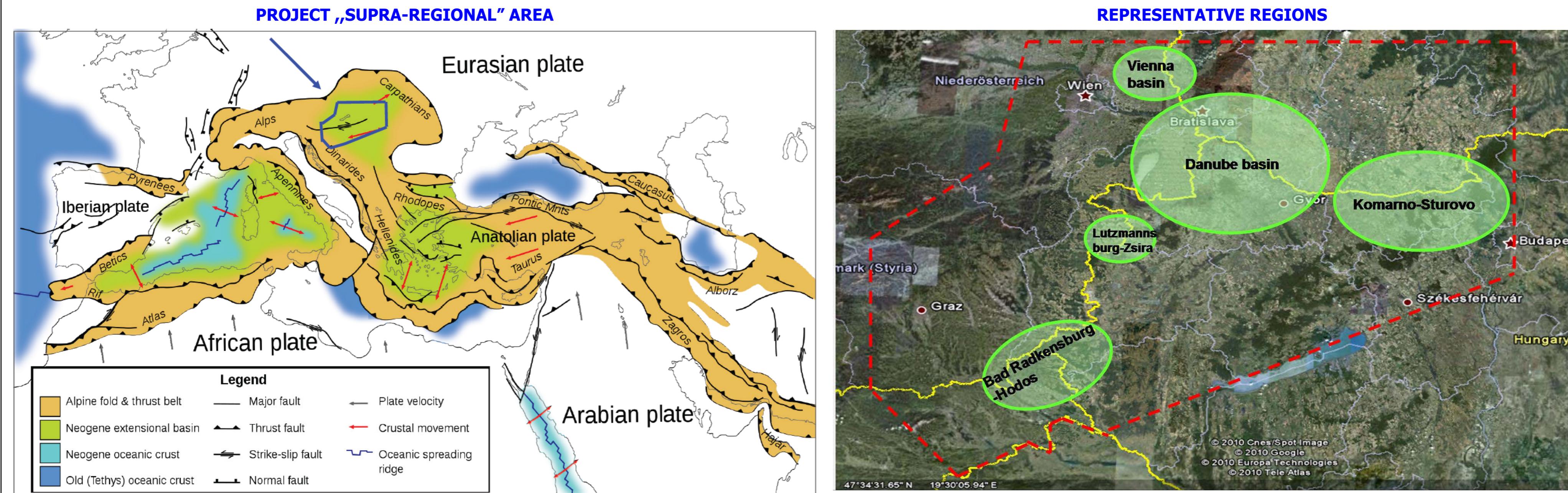
Project number: 2CE 124 P3
Duration: 01.04.2010 - 31.03.2013
Partners: National Geological Surveys of Hungary (MÁFI), Austria (GBA), Slovakia (SGUDS) and Slovenia (GeoZS)
Lead partner: MÁFI, project leader: Dr. Annamária Nádor (nador@mafi.hu)

Project activities (Work Packages)

- **WP 1** Project management and coordination
Responsible partner: *Geological Institute of Hungary (MAFI)*
- **WP 2** Communication, knowledge management and dissemination
Responsible partner: *Geological Survey of Austria (GBA)*
- **WP 3** Utilization aspects
Responsible partner: *Geological Survey of Slovenia (GEO ZS)*
- **WP 4** Transnational data management
Responsible partner: *State Geological Institute of Dionyz Stur (SGUDS)*
- **WP 5** Cross-bounder geoscientific models
Responsible partner: *Geological Institute of Hungary (MAFI)*
- **WP 6** Implementation tools for transboundary geothermal resource management
Responsible partner: *Geological Survey of Austria (GBA)*

Project management structure

The diagram illustrates the project management structure. At the top is the **CEU** (Central Europe Programme) as the **Managing Authority**, connected to the **Joint Technical Secretariat**. Below it is the **Transenergy project management structure**, which includes the **MAFI** (lead partner for WP1 and WP5), **SGUDS** (lead partner for WP4), **GBA** (lead partner for WP2 and WP6), and **Geo-ZS** (lead partner for WP3). The **Media & Public** unit is responsible for print and broadcasting media, a project website, and a web portal. The **Strategic Management Board** includes the Project Manager, Financial Manager, and WP leaders. The **External Evaluation Board** represents stakeholders. Internal communication is shown as daily contact inside the consortium, while external communication involves reporting to CEU authorities, board meetings, and media and non-media communication.



Tectonic map of the Mediterranean, showing the project area and position of the Carpathians within other structures of the Alpine belt.

Transenergy project area. Within the „supra-regional“ area (dotted red line) the project focuses on some representative regions along the borders (thermal karst of Komarno-Sturovo area (HU-SK), Central Depression of the Danube basin (A-SK-HU), Lutzmannsburg- Zsira area (A-HU), Vienna basin (SK-A) and Bad Radkersburg – Hodoš area (A-SLO-HU)).

THE PROJECT'S SPECIFIC OBJECTIVES

The **project website** (<http://transenergy-eu.geologie.ac.at>) as a main core output of the project will be the central information medium, which will show all relevant information on the potential, vulnerability and sustainability of the geothermal system in the investigated transboundary regions with different exploitation scenarios of thermal water/heat;

The **methodology** for joint groundwater management and utilization maps summarizing the legal steps and actions towards a harmonized management strategy of transboundary geothermal resources, and a best practice on geothermal use;

The project website integrates all results of activities performed in below defined work packages.

PROJECT ACTIVITIES AND THEIR OUTPUTS

- **WP 1** Project management and coordination
Strategic focus/main objectives:
Core outputs:
- **WP 2** Communication, knowledge management and dissemination
Strategic focus/main objectives:
Core outputs:
- **WP 3** Utilization aspects
Strategic focus/main objectives:
Core outputs:
- **WP 4** Transnational data management
Strategic focus/main objectives:
Core outputs:
- **WP 5** Cross-bounder geoscientific models
Strategic focus/main objectives:
Core outputs:
- **WP 6** Implementation tools for transboundary geothermal resource management
Strategic focus/main objectives:
Core outputs:

PROJECT MANAGEMENT AND COORDINATION

PROJECT PROMOTION OF OUTPUT AND RESULTS

PROJECT WEBSITE; TRAINING ON THE USE OF THE WEB-PORTAL

RECOMMENDATION ON LEGAL AND UTILIZATION ACTIONS FOR SUSTAINABLE GEOTHERMAL ENERGY USE
UTILIZATION MAPS; METHODOLOGY TO JOINT GROUNDWATER MANAGEMENT

DATA COLLECTING AND ESTABLISHMENT TO JOINT DATABASE AS A SOURCE OF UNIFIED DATA FOR GEOSCIENTIFIC MODELING
COMMON MULTILINGUAL DATABASE WITH HARMONIZED DATASETS

PROVIDE ALL NECESSARY GEOSCIENTIFIC INFORMATION IN THE FORM OF MAPS AND MODELS
SUMMARY REPORT OF THE SCENARIO MODELLING; SUMMARY REPORT OF THE STEADY-STATE MODELLING

WEB-BASED INFORMATION TOOL, FEASIBILITY STUDY AND STRATEGY – PAPER ON GEOTHERMAL USE
INTERACTIVE GEOTHERMAL WEB-PORTAL; STRATEGY PAPER ON CROSS-BORDER GEOTHERMAL UTILIZATION

