

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

Teodora Szocs<sup>3</sup>, György Tóth<sup>3</sup>, Daniel Marcin<sup>4</sup>, Annamária Nádor<sup>3</sup>, János Halmi<sup>3</sup>, Thomas Hofmann<sup>2</sup>, Radovan Černák<sup>4</sup>, Gerhard Schubert<sup>2</sup>, Andrej Lapanje<sup>1</sup>, Erika Kováčová<sup>4</sup>, Ágnes Rotár-Szalkai<sup>3</sup>, Gregor Goetzl<sup>2</sup>

<sup>1</sup> Geological Survey of Slovenia, <sup>2</sup> Geological Survey of Austria, <sup>3</sup> Geological Institute of Hungary, <sup>4</sup> 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

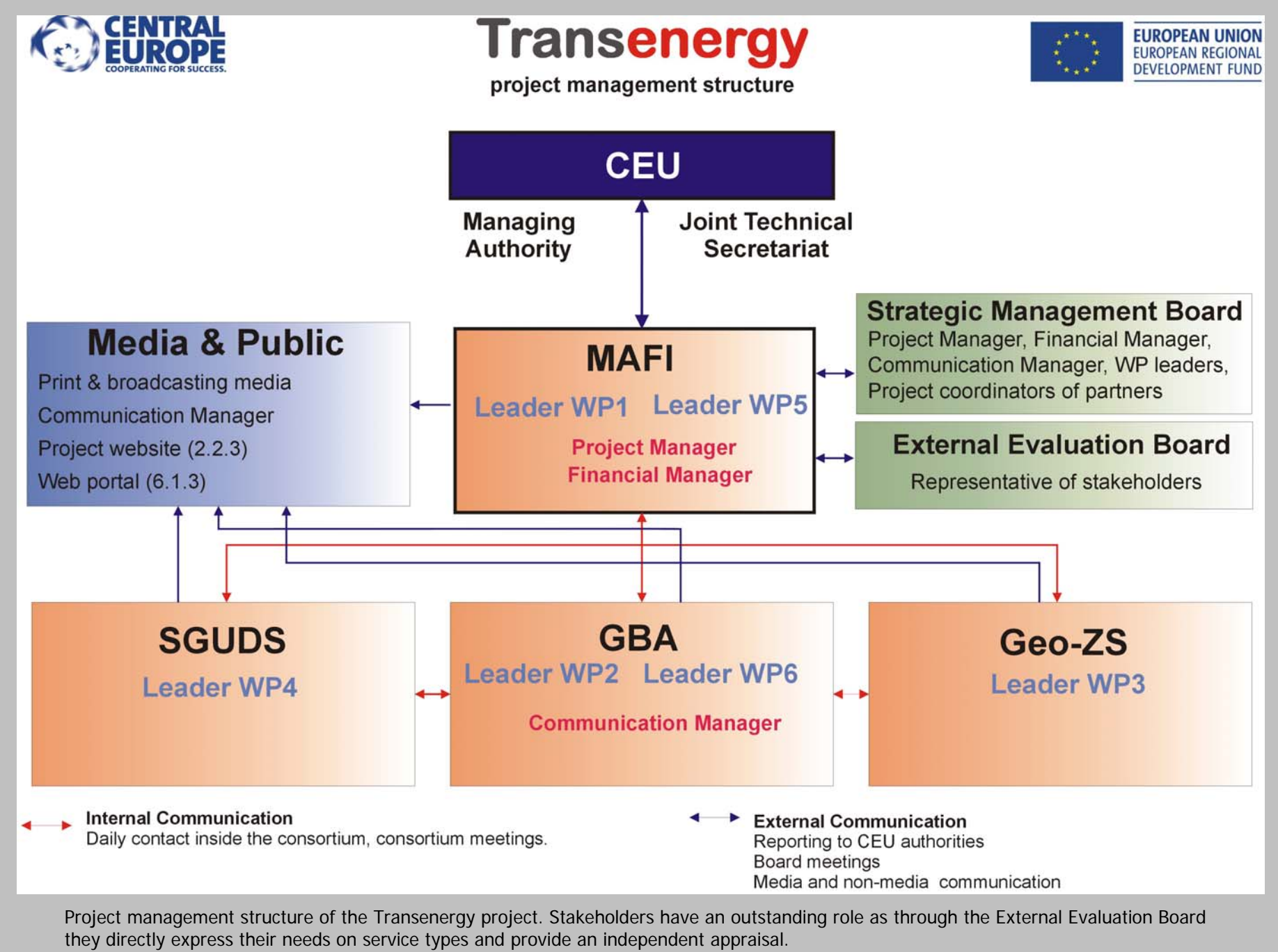
Partners: National Geological Surveys of Hungary (MAFI), Austria (GBA), Slovakia (SGUDS) and Slovenia (GeoZS)

Lead partner: MAFI, project leader: Dr. Annamária Nádor (nador@mafi.hu)

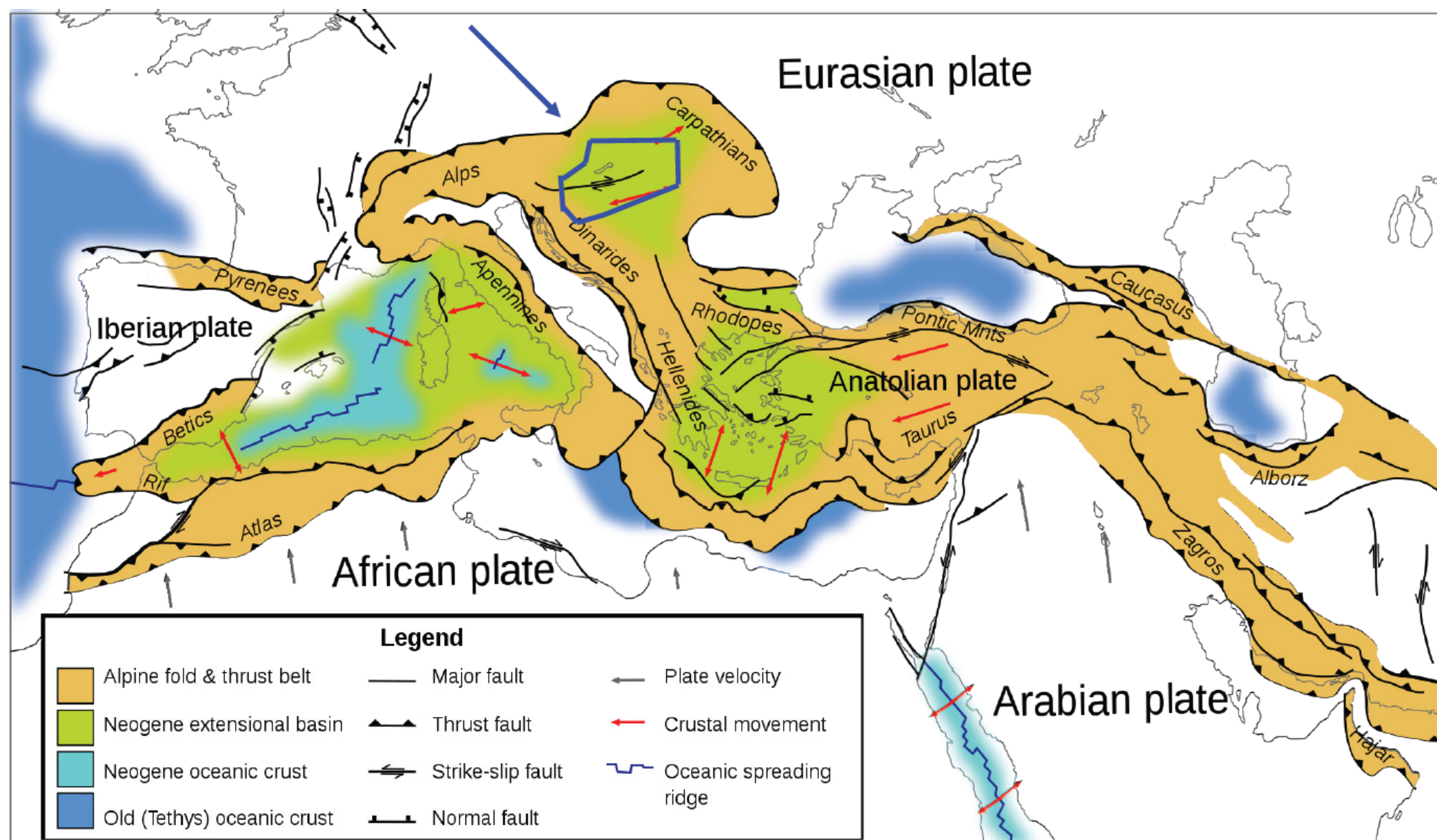
#### Project activities (Work Packages)

- 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-bouder 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

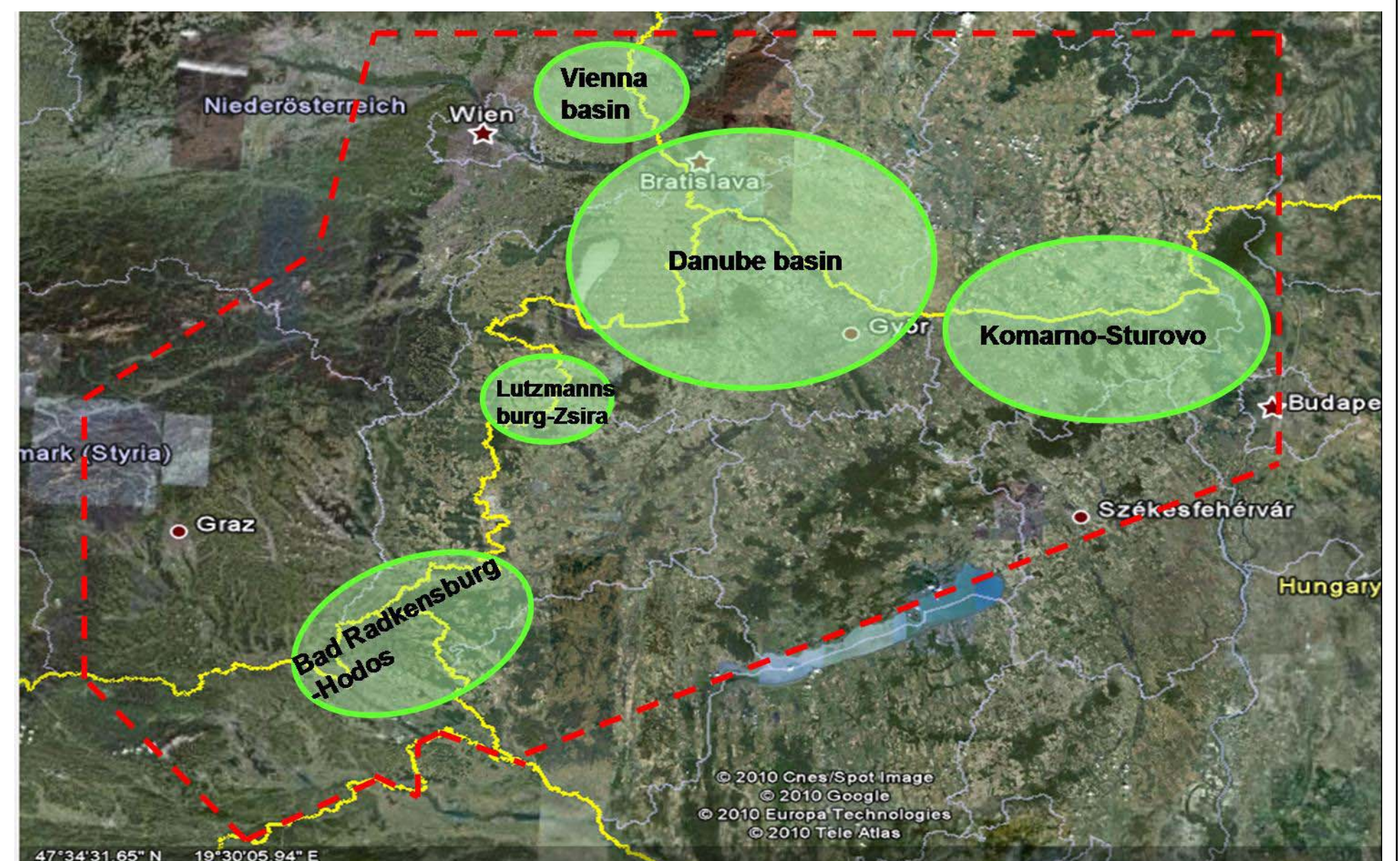


### PROJECT „SUPRA-REGIONAL” AREA



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

### REPRESENTATIVE REGIONS



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 – Hodos 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:
- 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-bouder 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 GEOSCIENTOFIC 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

