

**Interreg**



CENTRAL EUROPE

European Union  
European Regional  
Development Fund

**GeoPLASMA-CE**

TAKING  
**COOPERATION**  
FORWARD



Deutscher Geothermiekongress 2016  
Essen | 1st December 2016



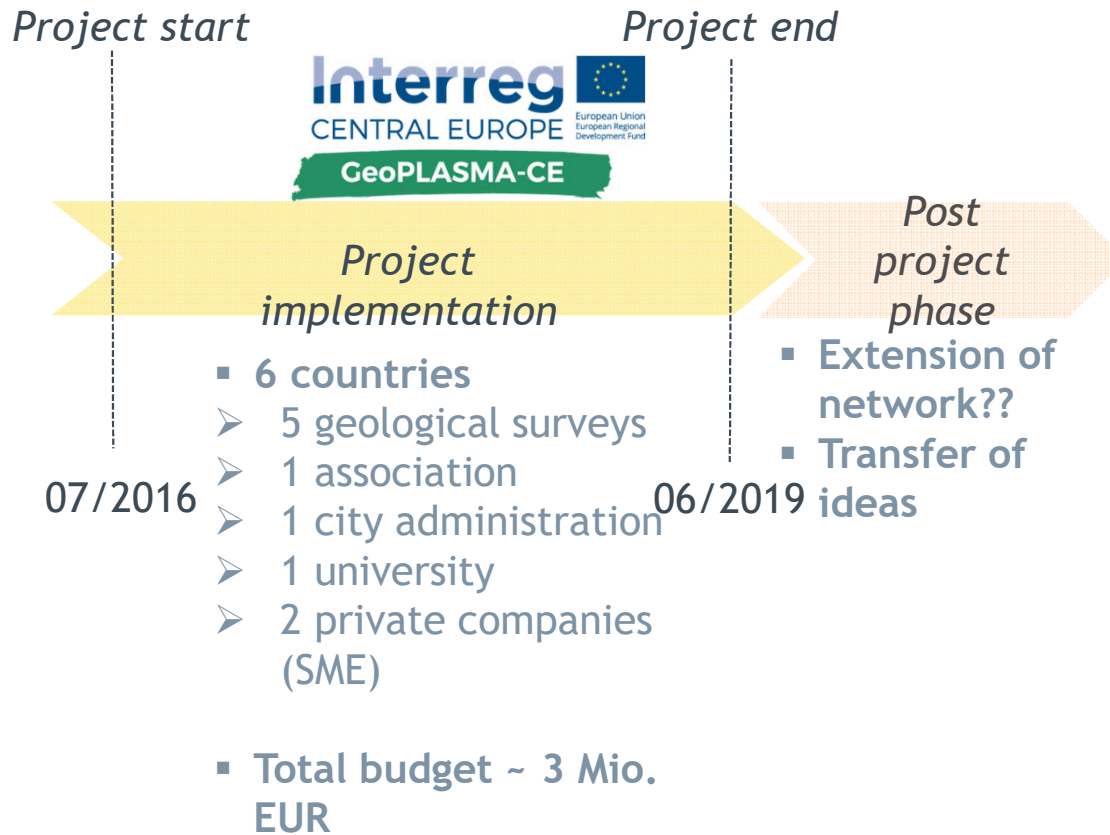
**Knowledge exchange workshop**

on mapping methods for the assessment of potentials and conflicts associated to the use of shallow geothermal energy in Europe



GeoPLASMA-CE | LfULG | Dipl. Geoökol. Karina Hofmann

# GEOPLASMA-CE - THE PROJECT



Exploration in 6 different pilot areas:

Austria, Czech Republic, Germany, Poland, Slovakia and Slovenia

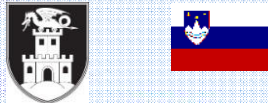


# GEOPLASMA-CE - THE TEAM

Geological Survey of  
Austria (LP)



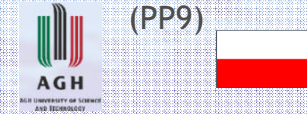
City of Ljubljana  
(PP11)



GiGa infosystems  
(PP10)



AGH University of  
Science and Technology  
(PP9)



German Geothermal  
Association (PP2)



geoENERGIE Konzept  
GmbH (PP3)



Saxon State Office for  
Environment, Agriculture  
and Geology (PP4)

LANDESAMT FÜR UMWELT,  
LANDWIRTSCHAFT  
UND GEOLOGIE



Czech Geological Survey  
(PP5)



State Geological Institute  
of Dionýz Štúr (PP6)



Geological Survey of  
Slovenia (PP7)



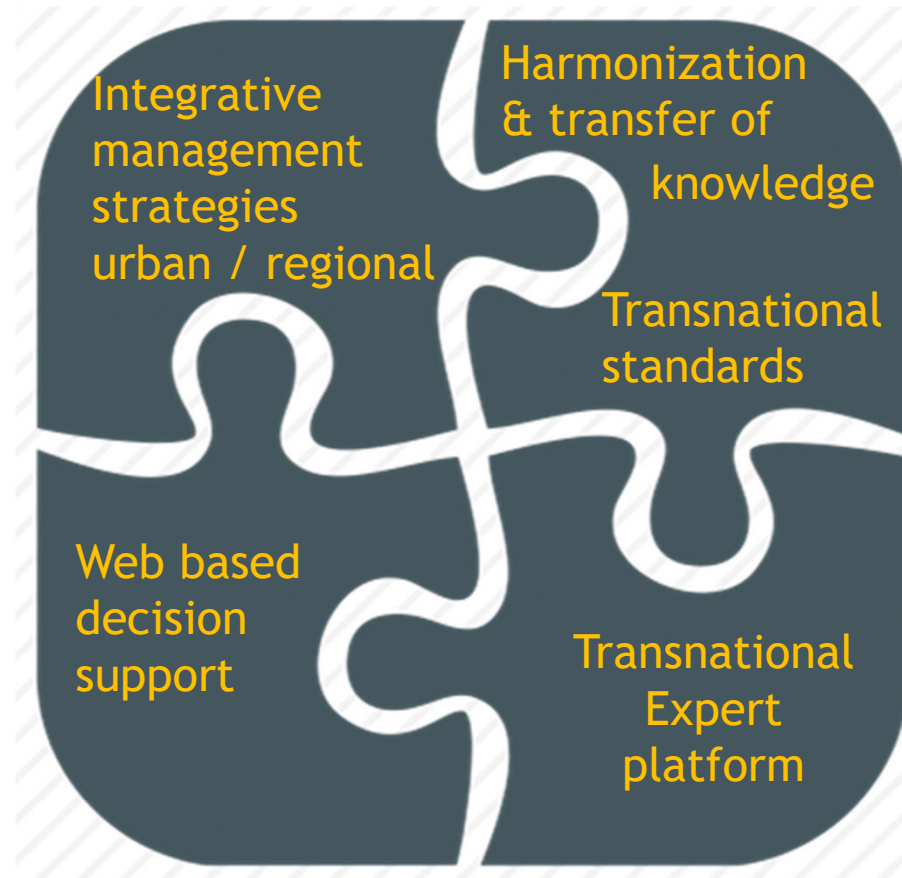
Polish Geological Institute -  
National Research Institute  
(PP8)



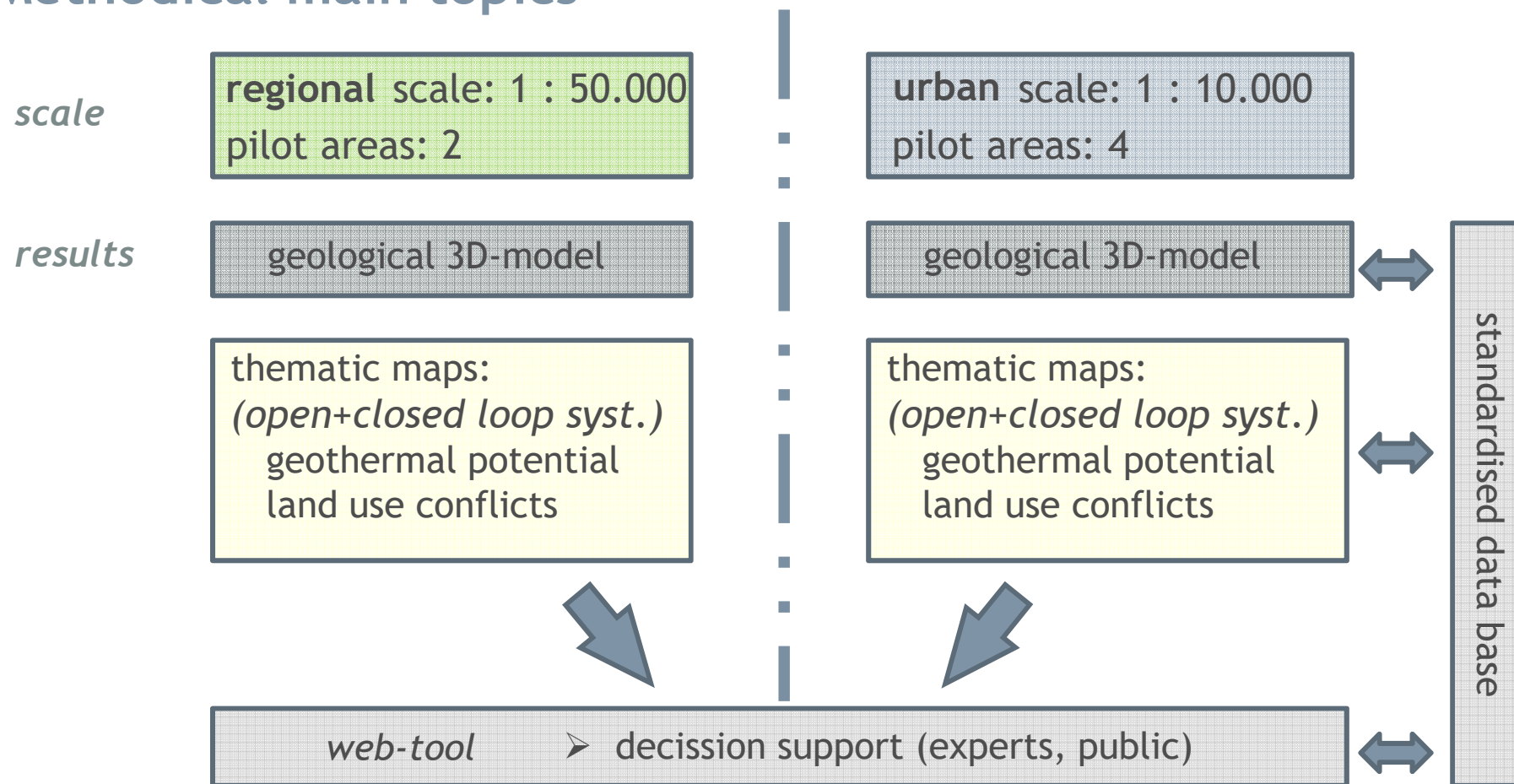
# GEOPLASMA-CE - VISION AND OUTPUTS

Foster the share of shallow geothermal use in heating and cooling strategies in Central Europe

## *Our outputs*



## Methodical main topics



## A.2 research and compilation of existing mapping and assessment methods

### focus/criteria

open-loop systems, closed loop systems, geological 3D-modelling, geothermal mapping, land use conflict mapping, regional and urban scale

### national level of PP

*Poland (TransGeoTherm), Czech Republic, Slovenia, Slovakia, Germany, Austria*

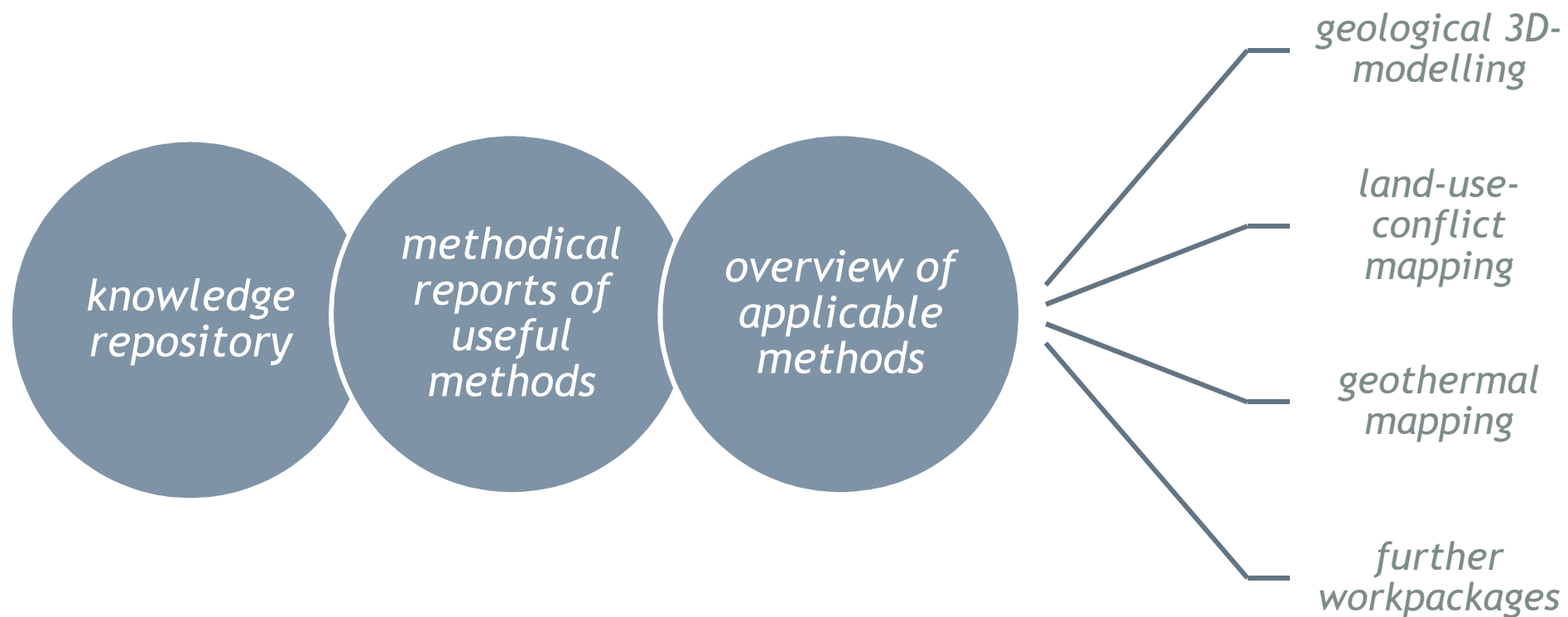
### international level

*Cheap-GSHPs, COST-Action GABI, EGIP, FRONt, GEOTeCH, GEOTRAINET, GRETA, Green Epile, ReGeoCities, IMAGE, ITER, IThERLAB, LEGEND, TERRE, TESSe2b, ThermoMap, Transenergy,*

*other projects from: England, Denmark, Ireland, Finland, Croatia*



## first results



## first results - modelling/mapping

project	scale	geological 3D-modelling	geothermal mapping	land use conflict mapping	further work-packages
Cheap-GSHPs	regional		X		1, 2, 4
IMAGE	regional		X		2, 3
ThermoMap	regional		X		1
<b>TransGeoTherm</b>	regional	X	X		2, 3, 4
Geothermal map Finland	regional		X		2, 3
Geothermal map Croatia	regional		X		2, 3
Slovenia	regional		X		2, 3
Ireland	regional	X	X	X	1, 2
England	regional		X		2
Geothermal map Denmark	regional		X		1, 2
Slovakia HG 50	regional	X			1, 2
Slovakia HGCH 50	regional	X		X	2
Czech Republic	regional	X			2, 3
<b>GRETA</b>	regional/urban	X	X		2, 3, 4
<b>TRANSENERGY</b>	regional	-	-	-	1, 2, 3
<b>Geothermal mapping Vienna, Salzburg</b>	urban	X	X		2, 3
<b>geological survey Sachsen</b>	regional	X	X		2, 3
<b>geological survey Thüringen</b>	regional			X	2, 3
<b>geological survey Bayern, NRW, BW</b>	regional	X	X	X	1, 2, 3
<b>geological survey Mecklenburg-Vorpommern</b>	regional		X	X	2, 3





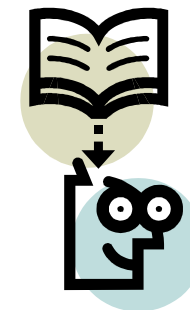
## next steps

### Set-up harmonized methods for assessment and mapping

database-structure (03/2017): → data management at the pilot areas (TWP3)  
→ Implementation of a thesaurus-translation tool from  
TRANSENERGY for multilingual data display at web-tool



Harmonized workflows for urban and regional areas (05/2017):  
→ Development of harmonized and standardized workflows for the  
activities in all pilot areas (3D-subsurface-models, geothermal and  
land-use-conflict maps).

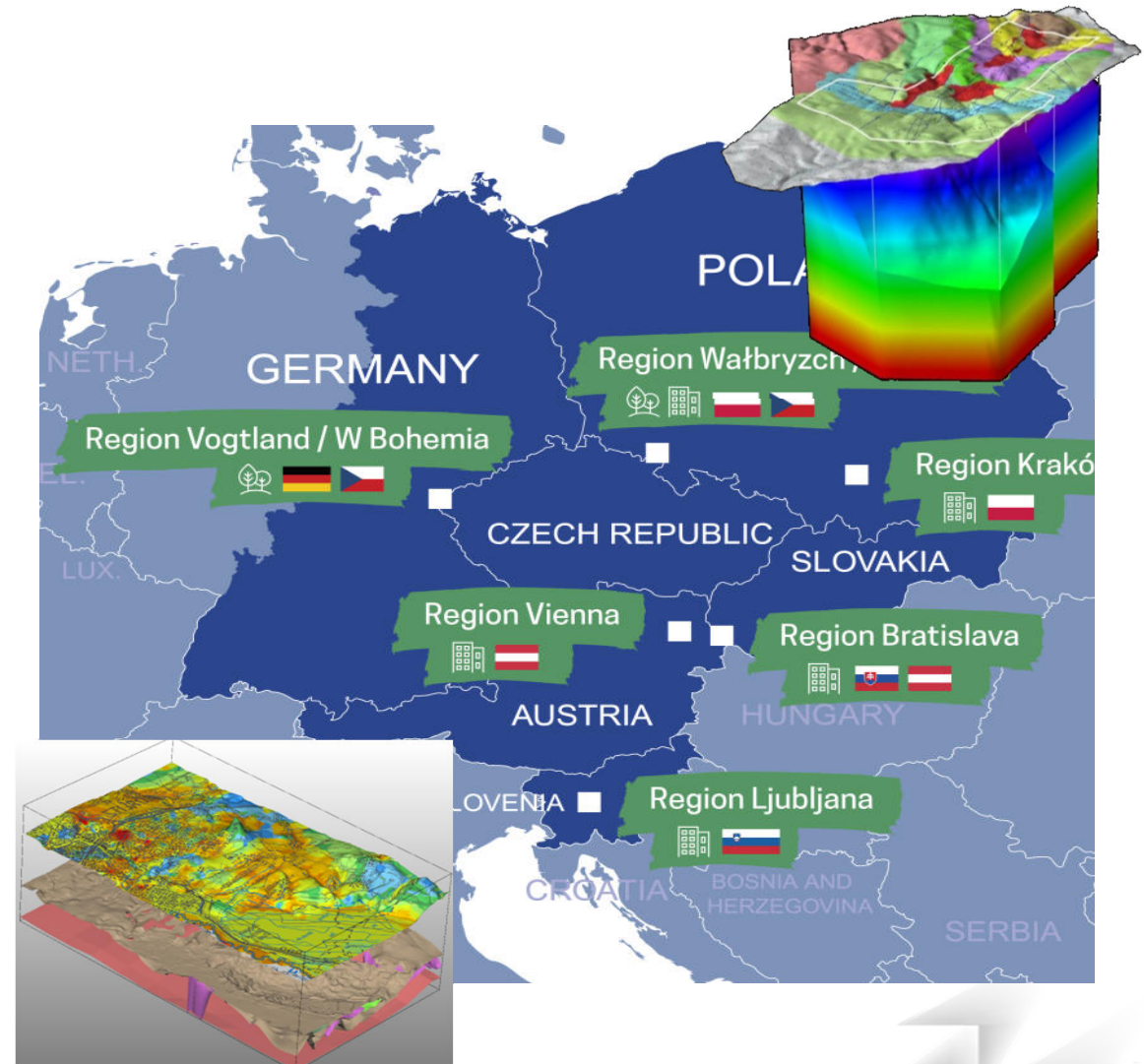


Evaluated guidelines on harmonized workflows and methods for  
urban and regional areas (03/2019)



*Thank you for your  
attention!*

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# CONTACT US



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**CZECH  
GEOLOGICAL  
SURVEY**



**AGH**

AGH UNIVERSITY OF SCIENCE  
AND TECHNOLOGY



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LANDWIRTSCHAFT  
UND GEOLOGIE



Freistaat  
**SACHSEN**



Bundesverband  
**Geothermie**



City of  
Ljubljana



TAKING COOPERATION FORWARD