

## ○ **WP4: engage with decision-makers**

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## This talk

1. General introduction
2. Process mapping
3. National workshops – the Italian case



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○ **Aim**

*Find the best strategy to **harmonize** and empower the existing **environmental regulations**, **adapting life cycle thinking**, also **engaging the decision makers** in order to **facilitate the change**.*

Case studies countries: Italy (COSVIG / CNR), France (BRGM), Iceland (OS), Turkey (JESDER / MEUP), Hungary (MBFSZ), Belgium (VITO)

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## ○ Tasks

### **Task 4.1: Decision-making process mapping (VITO)**

List relevant regulations → process mapping of GEOENVI case studies

Establishing national fora (mapping decision-makers, compile contact lists)

### **Task 4.2: Formulation of recommendations on environmental regulations (CNR)**

a) Ranking energy policy and environmental regulations influencing geothermal and RES (CNR)

b) Towards better regulation of the environmental impact of geothermal (EGEC)

Working paper on recommendations for European harmonization

### **Task 4.3: Strategy for engagement and adoption of the recommendations (VITO)**

Three national workshops:

1) informing, 2) barriers and solutions, 3) reflect on solutions / actions



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## ○ Process mapping

### Task 4.1

- List actual energy-related policy and environmental regulations in each country and each relevant region, including the associated bodies/institutions that 'own' them.
- Build upon and complement available material
- Report produced by VITO in English, to be translated by national lead partners.
- Map the stakeholders and invite them to participate in a national forum (Task 4.3)

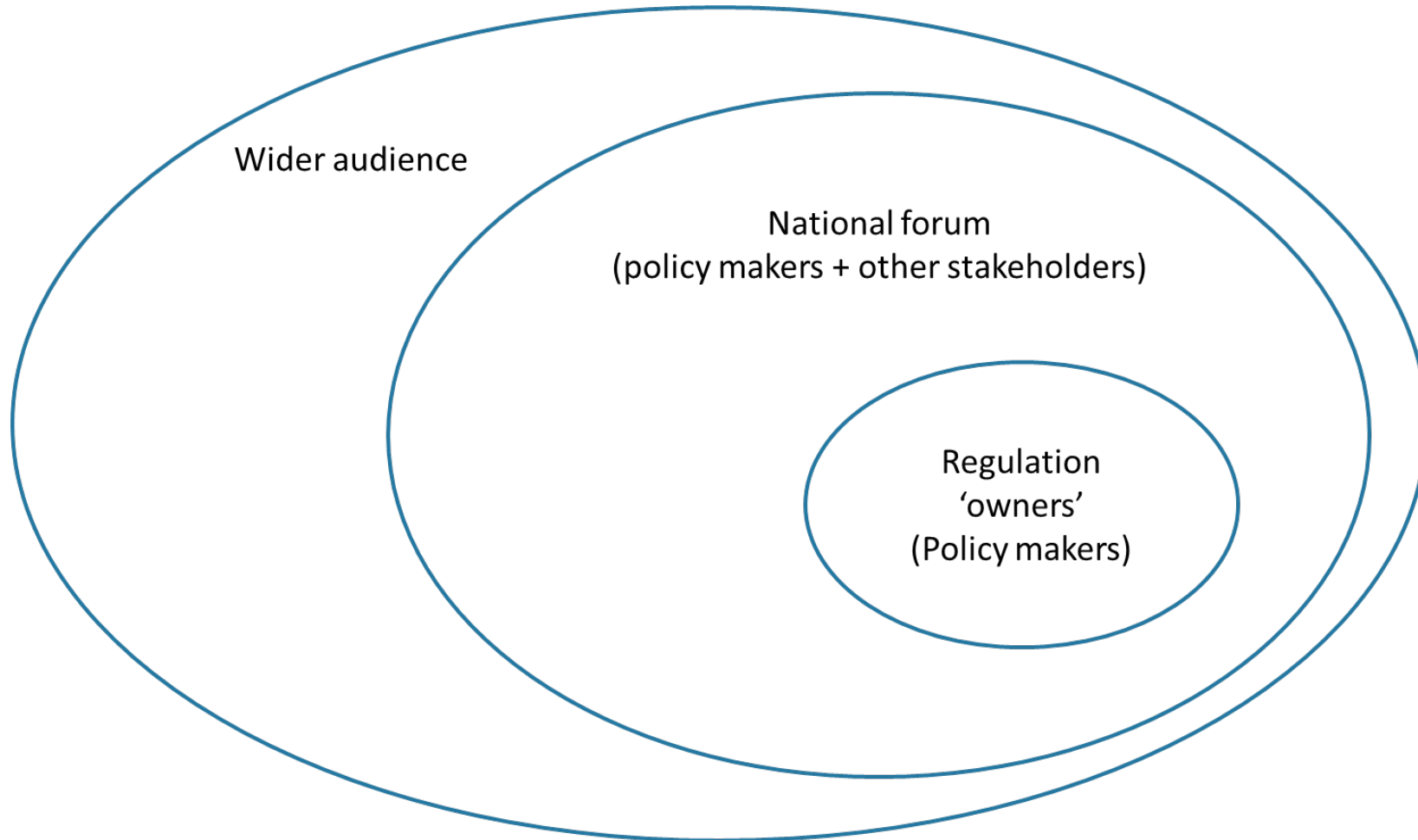
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## ○ Working methods

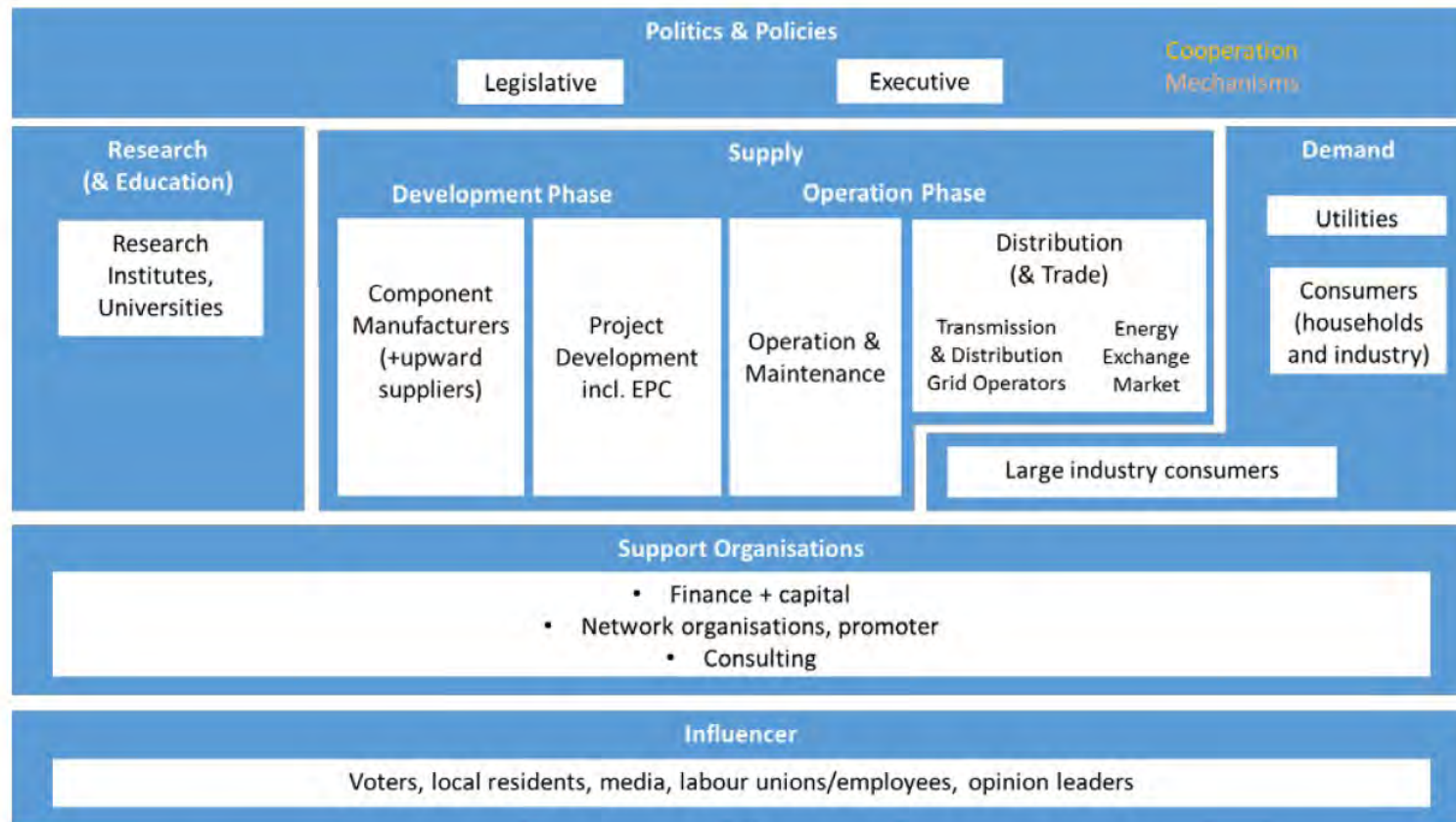
- Desktop analysis (policies and regulations) following D4.1 template
- Tap from experience of national case studies and other stakeholder activities (stakeholder long-list)
- Selection rationale (national forum)
- Interviews with stakeholders (further characterization of stakeholder views)

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## ○ Actor mapping



## ○ Actor mapping example



Dütschke et al. 2018

Figure 4 TIS actor systematisation for the CSP industry. Source: Own elaboration based on Hekkert et al. (2011)



## ○ Stakeholder engagement

### Task 4.3

Three national workshops:

1) informing, 2) barriers and solutions, 3) reflect on solutions / actions

National workshop 1:

- Common (but flexible) program
- Participation, both wide and focused, beyond decision-makers
- Interactivity and stakeholder questionnaire
- Planning: April - October

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# The Italian Workshop for stakeholder engagement

**SAVE THE DATE**

# GEONVI

Tackling the environmental concerns for deploying geothermal energy in Europe

Roma, 17 aprile 2019 (10:00 - 13:30)

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Consiglio Nazionale delle Ricerche  CSGI  EGEC GEOTHERMAL  enel Green Power  RETEGEOTERMICA 

Seguirà programma in dettaglio

Con il patrocinio di:  ELETTRICITÀ FUTURA imprese elettriche italiane



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No [818242 — GEOENV]

70 participants



Partners of the project [GEOENVI](#)  
in collaboration with  
[Elettricità Futura](#)

GEOENVI: Tackling the environmental concerns for deploying geothermal energy in Europe

17 April 2019 (from 10:30, to 13:30)

Palazzo delle Esposizioni (room Auditorium)  
[Via Nazionale, 194 - 00184 Roma](#)

### Concept

Geothermal resources are an important heritage in our country, due to geological peculiarities of Italian territory. An adequate exploitation of these resources allows renewable and sustainable energy production, in a continuous and grid-friendly way. Despite Italy is one of the world's leading country for power generation from geothermal, advantages of using geothermal for power production and H&C are little known. Recently, deep geothermal energy production is confronted with a negative perception, and a special attention from some decision-makers, in terms of environmental performance, which could seriously hamper its market uptake. Besides, media reports focus on disadvantages, rather than advantages linked to these technologies. Contrary to what happens in the rest of the world, where there is a constant growth of geothermal production among renewables, the uncertainty on possible environmental impacts and risks related to the realization of geothermal projects in Italy, with resulting social resistance, often represent significant obstacles to deployment of deep geothermal energy.

In order to analyze environmental aspects linked to deep geothermal energy, and to deliver information to understand sustainability characteristics, Italy is actively participating to the European Project GEOENVI, born within the Horizon 2020 Programme. The first objective of the GEOENVI project is to make sure that deep geothermal energy can play its role in Europe's future energy supply in a

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sustainable way. It aims to create a robust strategy to respond environmental concerns (by environmental concerns we mean both environmental impacts and risks):

- by assessing the environmental impacts and risks of geothermal projects operational or in development in Europe;
- by providing a robust framework to propose recommendations on environmental regulations to the decision-makers, an adapted methodology for assessing environment impact to the project developers;
- by communicating properly on environmental concerns with the general public.

### Agenda

10:00 Registrations

10:30 Opening greetings

Simone Mori, President of Elettricità Futura

10:40 Geothermal energy, an European success story

Phillippe Dumas, Secretary General of EGEC

10:55 Geothermal energy in programmes to support research and innovation

Riccardo Basoli, Italian Representative for Energy in Horizon 2020 and National Delegate in SET Plan

11:10 The GEOENVI project

- Goals of GEOENVI Project – Loredana Torsello, Executive responsible for international projects in Co3WG and Italian Representative for SET Plan IWG Deep Geothermal
- Mapping environmental aspects of deep geothermal – Giampaolo Manfredi and Daniele Fiaschi, Professors at the University of Florence
- Mitigation measures related to environmental risks – Adele Manzella, First researcher at CNR and President of the Italian Geothermal Union
- Towards the LCA methodology – Maria Laura Parisi, Researcher at the University of Siena

11:50 The point of view of the operators

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Carlo Pignatelli, Head of Renewable Energies Italy, Enel Green Power  
Aurelio Cupelli, Manager of Rete Geotermica

12:20 Roundtable: policies and tools for the use of geothermal energy in Italy and Europe

Moderator: GB Zorzoli, President of Coordinamento FREE

Speakers: European and national parliamentarians \*

13:00 Final speeches

Federico Frattoni, Councilor for the Environment, Energy and Soil Protection of the Region of Tuscany  
Davide Crippa, Ministry of Economic Development, delegation for energy policies  
Vanna Gava\*, Ministry of the Environment, Land and Sea Protection, delegation for relationship with small municipalities

13:30 Light Lunch with geothermal food by the Comunità del Cibo a Energie Rinnovabili della Toscana

\* invited: to be confirmed

Registration link: <https://forms.office.com/3b83b8b8NGU3mrx8>





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**G E O E N V I**