

GEOHERMICA – Joint Call



ETIP DG meeting, Brussels, June 20th 2017
Paul Ramsak – RVO.nl

The project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731117

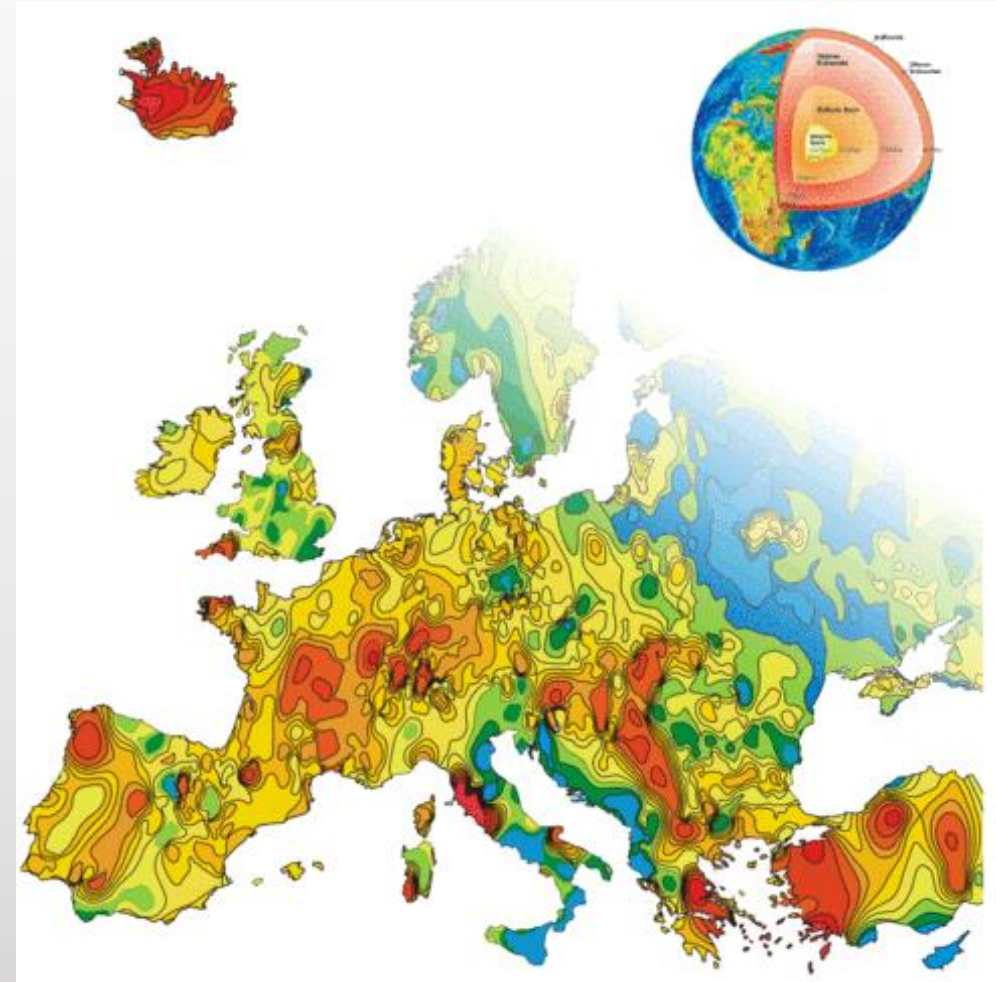
Geothermal energy contributes to the Energy Union

Geothermal energy is environmentally friendly.

It produces reliable baseload **power** and **heat** – all the more important to balance intermittent supplies from other renewable energy sources

Geothermal is a renewable energy source and independent of weather conditions.

Geothermal energy is indigenous and contributes to Europe's security of supply.



European

Network

Cooperation



Iceland



Netherlands



Switzerland



Italy



Germany



France



Turkey



Slovenia



Portugal



Spain



Denmark



Romania



Belgium



Ireland

Geothermal Energy

Cooperation between European (member) states



Iceland



Netherlands



Switzerland



Italy



Germany



France



Turkey



Slovenia



Portugal



Spain



Denmark



Romania



Belgium



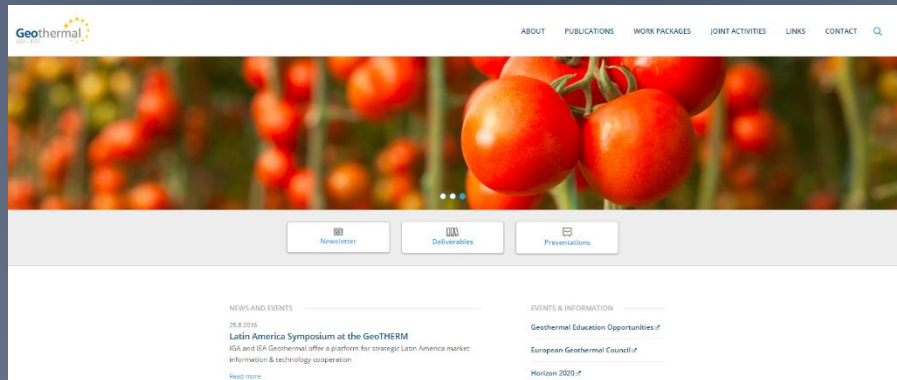
Ireland

Ministries and National Agencies programme owners & managers

Background

Geothermal ERA NET > GEOTHERMICA
2012-2016 2017-2021

Further info on Geothermal ERA NET at
www.geothermaleranet.is



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What is GEOTHERMICA?

GEOTHERMICA's objective is to combine the financial resources and know-how of 18 geothermal energy research and innovation programme owners and managers from 14 countries and their regions.

GEOTHERMICA will launch **joint projects** that **demonstrate and validate novel concepts of geothermal energy deployment within the energy system**, and that identify paths to commercial large-scale implementation.


**Accelerating deployment
of geothermal energy
in Europe**

- **GEOthermica** (2017-2021) ERA-NET Cofund Action
- **14 european countries**
- **Joint Call for innovative Demonstration and Technology Development Projects**
- Additional activities
NL+D leading
Knowledge & Strategy

IS 


IRL


NL


DK


D


VL


F


CH


RO


SLO


TR


AZOR

P 

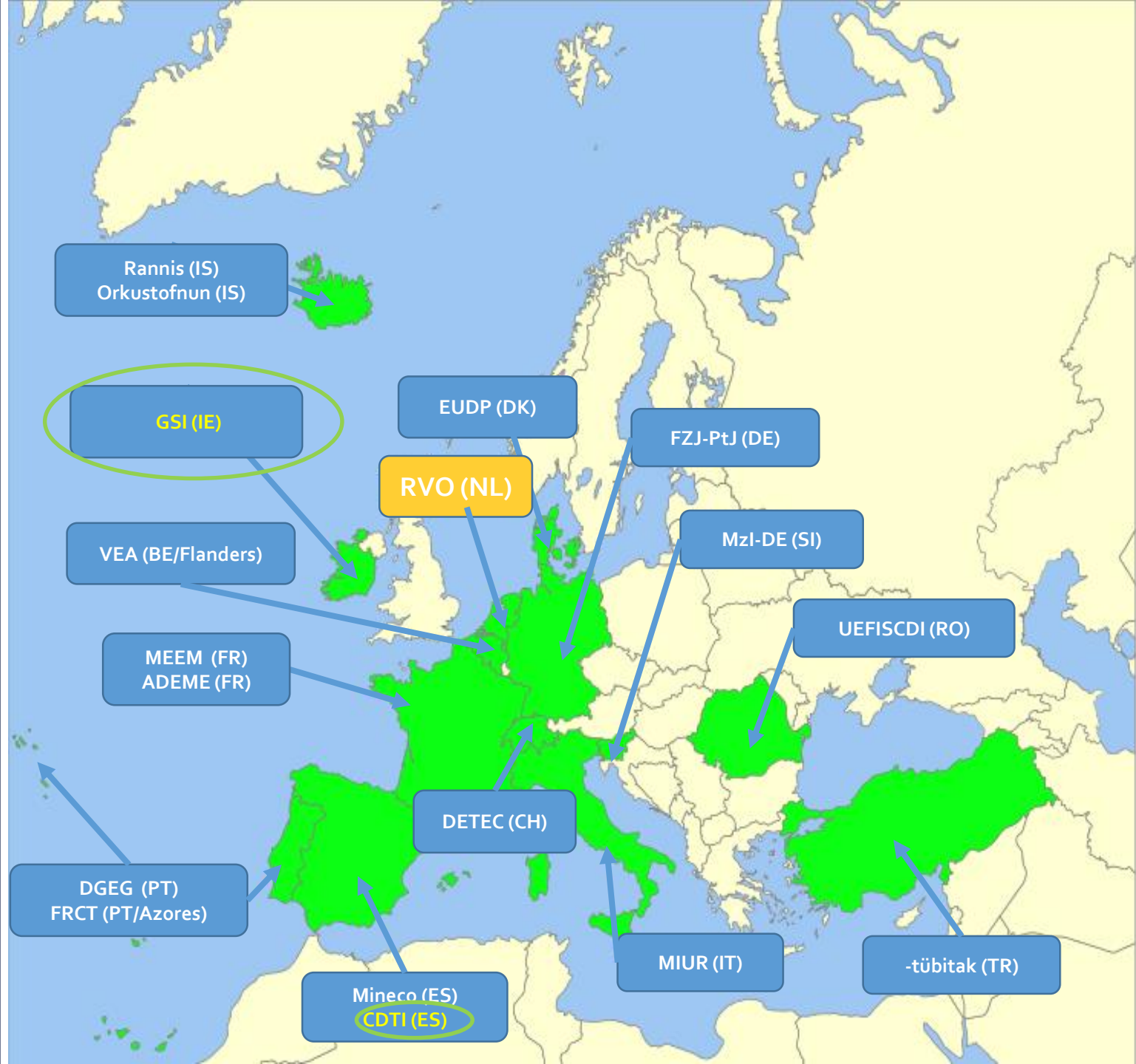

E


I

Partners

18 confirmed partners from
14 countries

2 new partners joined recently





What will GEOTHERMICA do?

1) April 10th 2017, GEOTHERMICA has published a **joint call** for **innovative demonstration projects** and **technology development projects** that accelerate geothermal energy deployment.

Projects will deliver outcomes by 2021

2) Continue the joint collaboration work from previous Geothermal ERA NET project under so called **additional activities**

Joint Actions (OpERA, GeoStat etc...)
Information exchange
Workshops
Policy work...

The Joint Call

Launched April 10th 2017 !

Combination of financial resources of 16 research and innovation programmes and the a “top-up” from the EC.

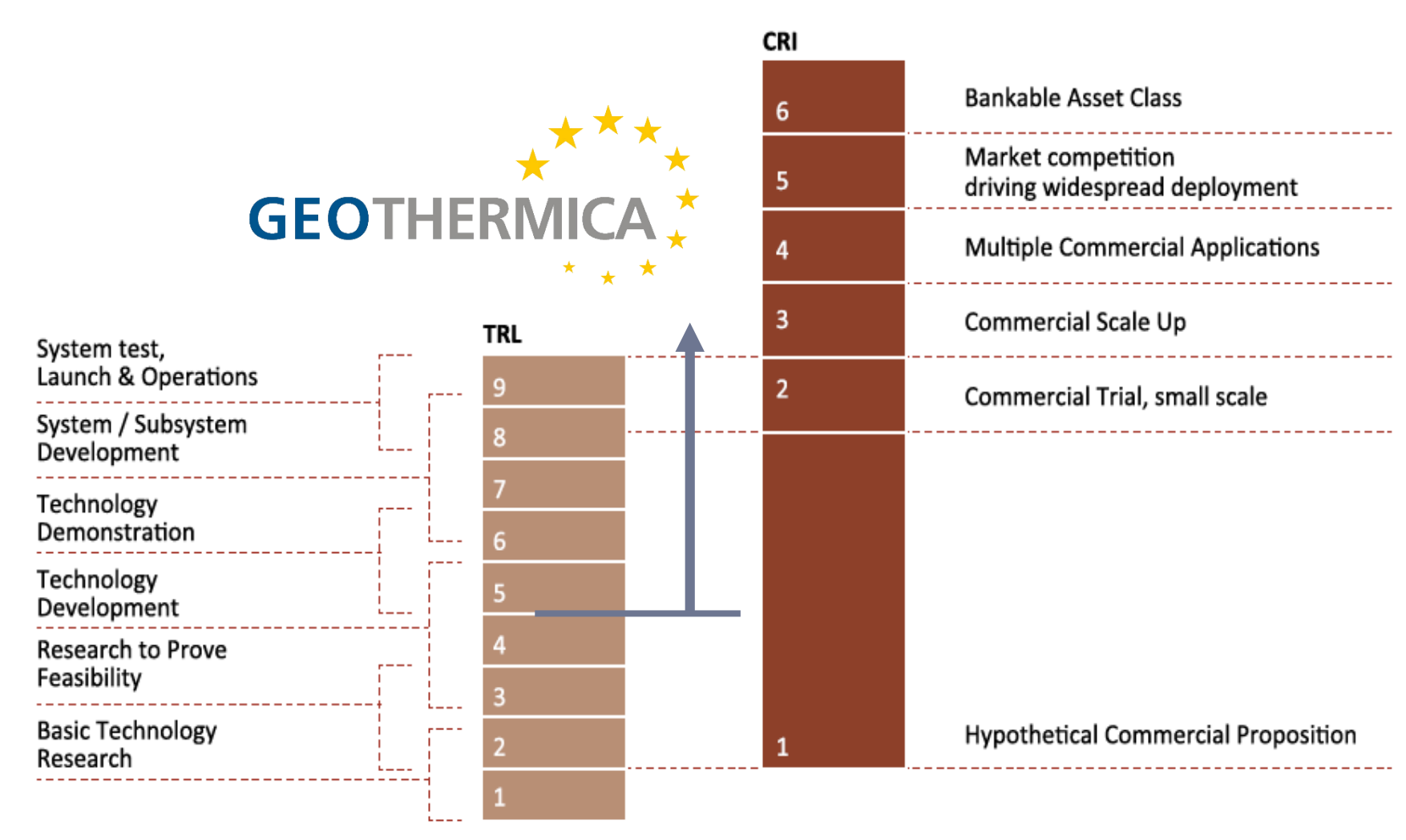
The budget is about €30 million and the call will ask for large projects with strong industry participation

A part of the budget will also be available for technology development projects of smaller size.

Projects may link up with, add on or build on ongoing pilots or demonstration projects



Higher TRL level projects

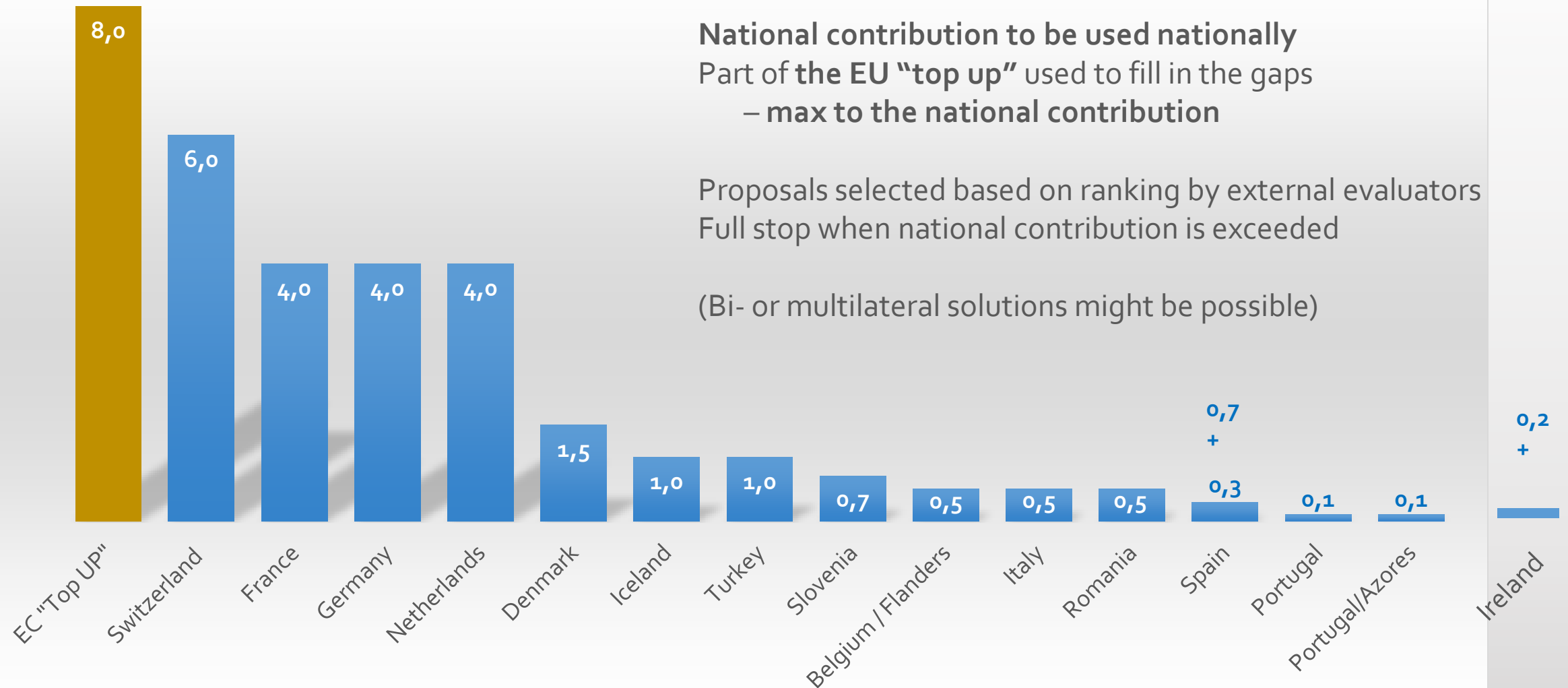


GEOTHERMICA will ask for projects typically to advance Technology Readiness Levels 5-9

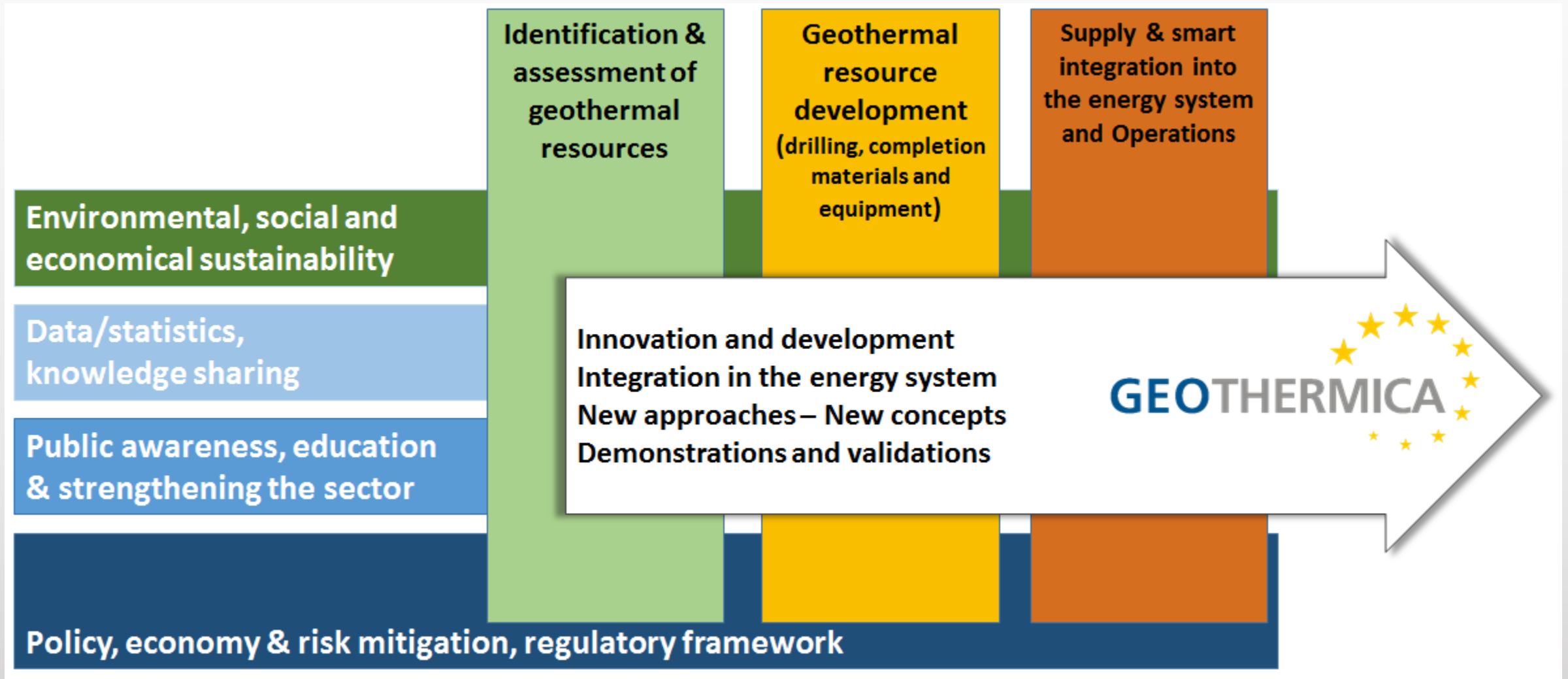
This joint effort by EU Member States and Associated Countries will complement Europe’s research and innovation community and industry sector efforts.

It will reinforce the sector’s contribution to the goals of the European Energy Union and the implementation of the SET Plan.

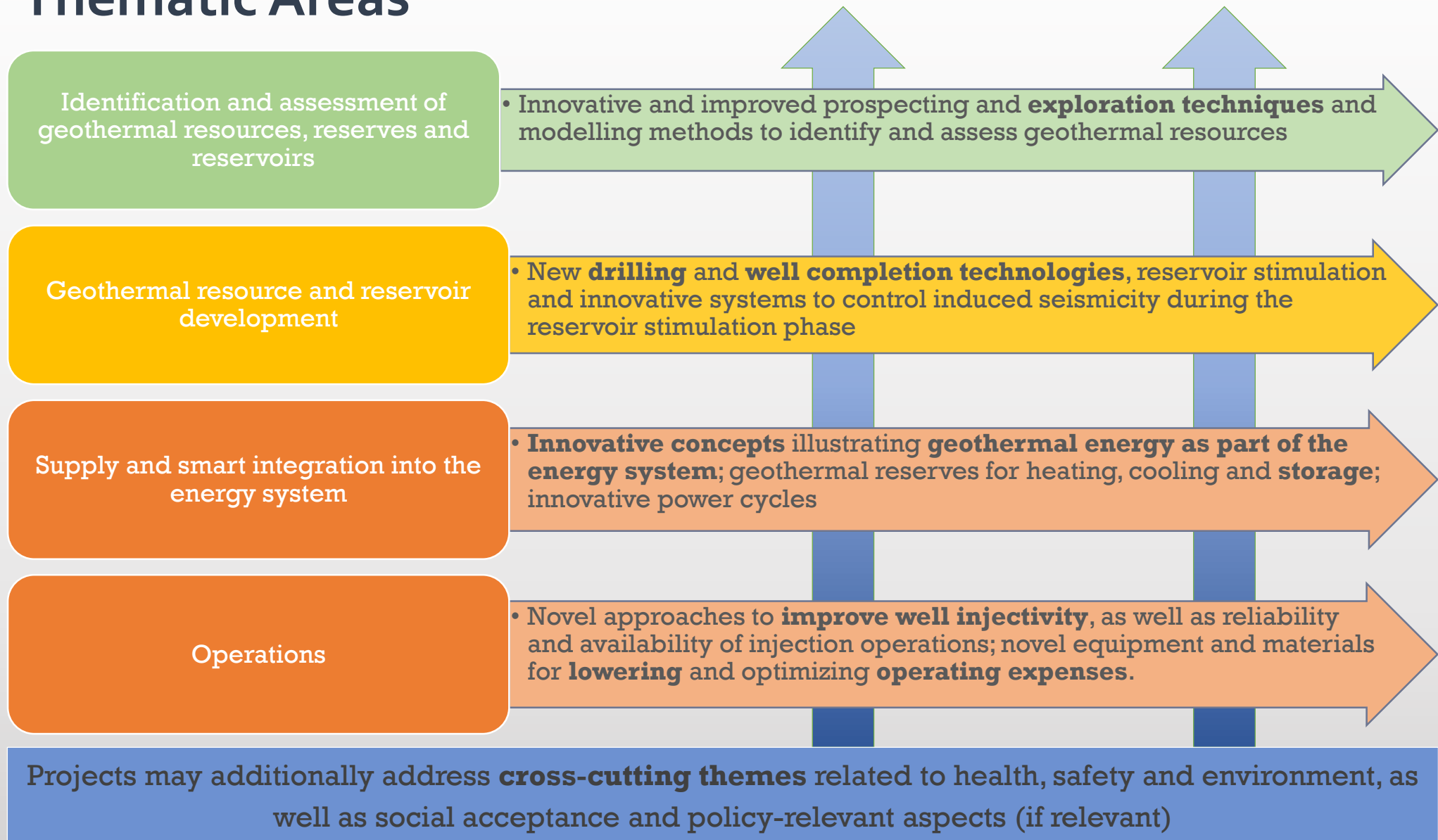
Contribution of EC and the participant countries in M€



GEOthermica Thematic Concept



It is expected that projects address the following Thematic Areas



Requirements for proposals

A two stage call

Project proposals have to be from European consortia with several partners from several of the participating countries.

Details are available on www.geothermica.eu

Participants have to meet the specifications of the GEOTHERMICA call in addition to the funding rules and regulations of their home countries or regions



GEOHERMICA

Call Text and Guideline for Applicants



GEOHERMICA Call Text
and Guideline for Applicants

1st Joint Call – opened on 10 April 2017

- Projects have to meet **GEOHERMICA criteria** and **National requirements**
- Annex 1:
National/regional Funding Agencies Rules
- **Contact your National Contact Point to help you /**
check eligibility
- Call Budget will be split (**2 ranking lists**):
appr. 2/3 for **Type A : max 10 M€** funding/project
appr. 1/3 for **Type B : max 2 M€** funding/project

(Type A: typ. Demonstration of innovative concepts)

GEOHERMICA + national requirements

- **Always Check GEOHERMICA Call Text and Guideline for Applicants (incl. Annex 1)**
 - innovative **demonstration** and **technology development** projects that **accelerate geothermal energy deployment**
 - Higher TRL's
 - Strong industry participation
- Consortium: **at least three eligible applicants from at least two participating countries**
(consortia that show a spectrum of European participation are encouraged) > **real cooperation**
- Max. project duration **three years**
(start 1 May 2018, **end before 1 May 2021**) - no extension !

Submission & Evaluation

- Evaluation: **two-stage procedure**
- Submission **via Electronic Submission System ESS** (via GEOTHERMICA website).
ESS will open on Thursday, 1 June 2017
- **Pre-proposal** must be submitted via ESS before Monday, **10 July 2017** at 13:00 UTC
 - Annex 2: Template for pre-proposal
 - Annex 4: Budget Table
 - **Letters of Intent from each partner**

- **Full proposal** must be submitted via ESS before Friday, **24 November 2017** at 13:00 UTC
 - Annex 3: Template for full proposal
 - Annex 4: Budget Table
 - **Letters of Commitment from each partner** (Financiering eigen aandeel !)

Pre-proposal templates

- Annex 2: Template for pre-proposal (2-6 pages)
- Annex 4: Budget Table
- Letters of Intent

Start ASAP !!!
(well before 10/7)
good project and good partners needed

Annex 2: Template for pre-proposal¹

Concise description of the project (2 - 6 pages for points 1 to 4 below)

Please give an overview of the project, including:

- Objectives and targets (against defined technology and market development needs)
- Key activities (work programme, work packages and work distribution among partners, i.e. key activities and leading roles / major contributions of partners)
- Expected results (innovation or innovation potential, contribution to achieving the GEOTHERMICA objective of accelerating the uptake of geothermal energy, etc.)
- Added value through transnational cooperation for the whole project

Please also provide a full project title and an acronym.

1. Objectives and challenges

[Your pre-proposal text]

2. Short description of your project including key activities

[Your pre-proposal text]

3. Expected results

[Your pre-proposal text]

4. Relevance to GEOTHERMICA and trans-national added value

[Your pre-proposal text]

5. Realistic Timing

[Your preliminary GANTT chart with the critical path identified]

6. Approximate projected costs in EUR

[Table giving total costs and requested funding for each partner and the consortium as a whole, maximum one page, detailing also any other requested funding for the same work]

- Please use Table in Annex 4

7. Short description of partners involved

[Maximum half a page per partner]

8. Letters of Intent from each partner

[Maximum one page per partner]

¹ See also Chapter 9 Submission.

One document per heading must be uploaded as an attachment in the ESS. See the published instructions on the ESS.

Annex 4: Table for budgeting

Each table must be filled out for the consortium as a whole.
Each table must also be filled out for each partner in the consortium.

In your project to the best of your knowledge compliant with the General Block Exemption Regulation (GBER)
http://ec.europa.eu/competition/state_aid/legislation/index.cfm

Cost (all figures in euro²)

	Fundamental research	Industrial research	Experimental development	Investment (demonstration)	Sum
Research and development					
Personnel cost ³ including eligible indirect cost ⁴					--
Operating expenses (materials etc.) ⁵					--
Costs of instruments and equipment ⁶					--
Costs for buildings and land ⁷					--
Costs of contractual research etc. ⁸					--
Other cost ⁹					--
Investment and demonstration projects					
Investments					--
Relevance cost ¹⁰					--
Total sum	--	--	--	--	--

Any non-personnel item of more than €10,000 requires an explanation

Item No.	Item	Explanation (an explanation comprises the reason why the item is required and how the cost estimate has been made e.g. via a quote) and where indicated, provide back-up documentation	Cost (€)
1			
2			
3			
4			
5			
...			
As needed, insert as many additional rows as above			
Total sum			--

Cost allocation (all figures in euro²)

	Fundamental research	Industrial research	Experimental development	Investment (demonstration)	Sum
Small enterprise					--
Medium enterprise					--
Large enterprise					--
Research institutions/universities					--
Other					--
Total sum	--	--	--	--	--

Funding (all figures in euro²)

	Fundamental research	Industrial research	Experimental development	Investment (demonstration)	Sum
Own financing					--
GEOTHERMICA financing					--
Other public financing (specify)					--
Other private financing					--
Funding percentage ¹¹	80%/50	80%/50	80%/50	80%/50	--
Total sum	--	--	--	--	--

² For those countries having another currency than Euro the financial reporting of the GEOTHERMICA projects will be based on the actual exchange rate at the time when the

³ includes salaries, researchers, technicians and other supporting staff to the extent employed on the project

⁴ Indirect costs (also known as 'overhead') are costs that do not fit directly into specific costs directly linked to the work done in the project. In practice, they are costs whose

⁵ Additional cost overheads and other operating expenses, including costs of materials, supplies and other products, incurred directly as a result of the project

⁶ As the extent and for the duration period used for the project. Where such instruments and equipment are not used for their full life for the project, only the depreciation costs corresponding to the life of the project, as calculated on the basis of generally accepted accounting principles, are considered as eligible.

⁷ As the extent and for the duration period used for the project. With regard to buildings, only the depreciation costs corresponding to the life of the project, as calculated on the basis

⁸ Contractual research, knowledge and patents bought or licensed from outside sources at arm's length conditions, as well as costs of consultancy and expertises services used exclusively for the project

⁹ Must be specified, e.g. invoice payable to/between company subcontractor or company with controlling interests

¹⁰ Relevance cost must be determined according to GBER Article 4.3.6, see <http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014-00001&from=EN>


¹¹ Please make sure that the funding percentage does not exceed the maximum level in your national legislation.

GEOHERMICA Evaluation Criteria

<i>Excellence</i>	5 points
<ul style="list-style-type: none"> Relevance and clarity of the project's objectives* Credibility of the proposed technology/concept and approach – including trans-disciplinary considerations, where relevant* Quality of the innovation and ambition related to the state of the art in the respective countries* Scientific merit of the project relevant to the call 	
<i>Impact (potential impact of the results of the project)</i>	5 points
<ul style="list-style-type: none"> Expected contribution to the accelerated deployment of geothermal energy utilization (in terms of innovative concepts, potential to unlock geothermal energy resources, addressing major barriers, cost reduction, involvement of industrial partners)* Project's ability to strengthen the competitiveness and growth of European industry sector Demonstration of added value of trans-national collaboration Strength of the proposed exploitation and dissemination plans (including management of data and intellectual property rights) Impact on environmental or socially important aspects (cross cutting themes, Figure 1) 	
<i>Quality and efficiency of the implementation of the project</i>	5 points
<ul style="list-style-type: none"> Coherence and expected effectiveness of the project plan, including the participation levels of industry, appropriateness of tasks, use of methods, resource allocation incl. qualification of consortium members and quality of project structure Budget allocation* Timing and scheduling of the project and identification of dependencies and critical path* Strength of management structures and governance procedures, including risk management, gender equality Capability of the Main Applicant (and partners) to deliver the project and to commercialize the technology further - including e.g. suitability of expertise, complementarity, balance of contributions* 	

- **Excellence**
- **Impact** (potential impact of the result of the project)
Expected contribution to the accelerated deployment of geothermal energy utilization (in terms of innovative concepts, potential to unlock geothermal energy resources, addressing major barriers, cost reduction, involvement of industrial partners)
- **Quality** and efficiency of the implementation of the project
- Max 5 points/criterion
score at least 3/5 on all criteria
- Independent Expert Panel
to score and rank proposals (2nd stage)
-
- After stage 1:
eligibility check / limit oversubscription

Timeline

- 
- **February 15, 2017:** Preannouncement of the call. **done**
 - **April 10, 2017:** Call text to be published. **done**
 - **July 10, 2017:** Due date for pre-proposals (stage 1). **your turn !**
 - **September 11, 2017:** Invitation to second stage for those pre-proposals that pass stage 1.
 - **November 24, 2017:** Due date for full proposals (stage 2).
 - **March 1, 2018:** Notification.
 - **May 1, 2018:** Signing contracts with new projects.
 - **May 1, 2021:** Projects close.

Questions? Contact your National or Regional Contact Points

Country / Region	Organisation	Name	E-mail	Phone
Belgium / Flanders	VEA	Caroline Vermeulen	caroline.vermeulen@vea.be	+32 2 553 46 26
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Welcome to GEOthermica



CALLS



Matchmaking



GEOthermica Call Info

Further info on...
www.geothermica.eu

all info about the GEOthermica call

register for matchmaking

submission of
proposal (via ESS)

Go and get your partners and build a consortium

Get your pre-proposal ready **well before July 10th**
& inform/consult your NCP's

Questions ?

Thank you for your attention !



GEOTHERMICA

NL national contacts (NCPs)

RVO
NL Enterprise Agency

www.geothermica.eu

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Geothermal Energy

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