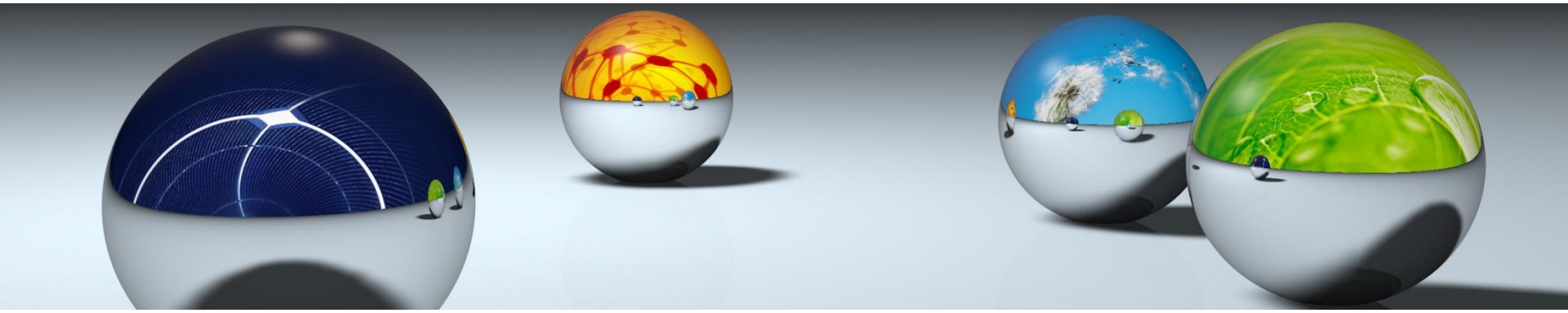


› WP4: Development of Joint Activities

Summary

Dr. Stephan Schreiber
Project Management Jülich
Renewable Energies
Geothermal Energy and Cross-Cutting Programmes

Overview

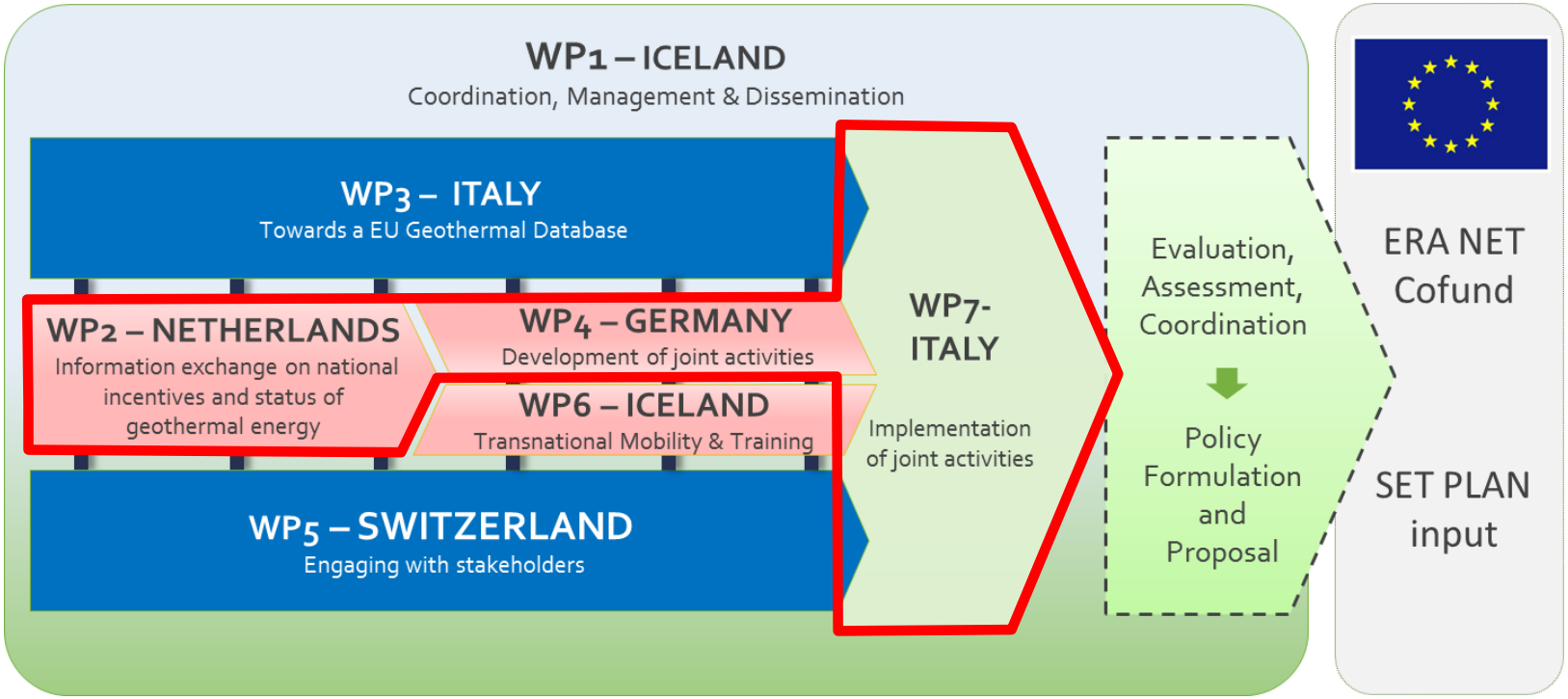
- WP4 “Development of Joint Activities”
  - Objectives
  - Structure
- Work done
  - Possible schemes and barriers for the joint activities
  - Development and Implementation of joint activities
  - Realized Joint activities
- Outlook

WP 4: Development of Joint Activities

- Objectives:
  1. The identification of joint activities
  2. The definition of possible schemes and barriers for the joint activities
  3. The preparation of an action plan for the implementation of joint activities in work package 7 „Implementation of joint activities“.

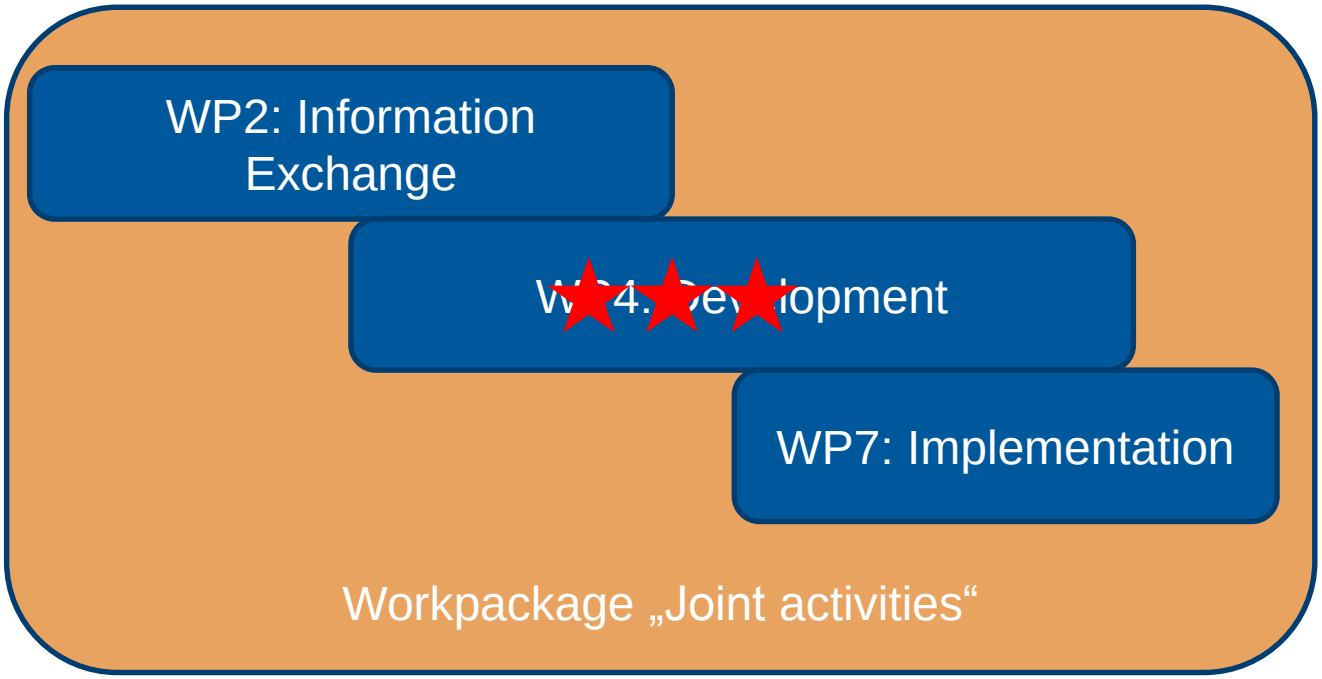
WP 4: Development of Joint Activities

› Structure:



WP 4: Development of Joint Activities

› „New“ structure:



★ Objectives

Identification of joint activities

- Analysis of:
  - Status of Geothermal Energy in the participating countries
  - Technical & non-technical barriers & opportunities
  - RD&D Needs in the participating countries

WP2

- Results:
  - Lack of Knowledge & Information Exchange in Europe
  - Most urgent topics for the further development of geothermal energy

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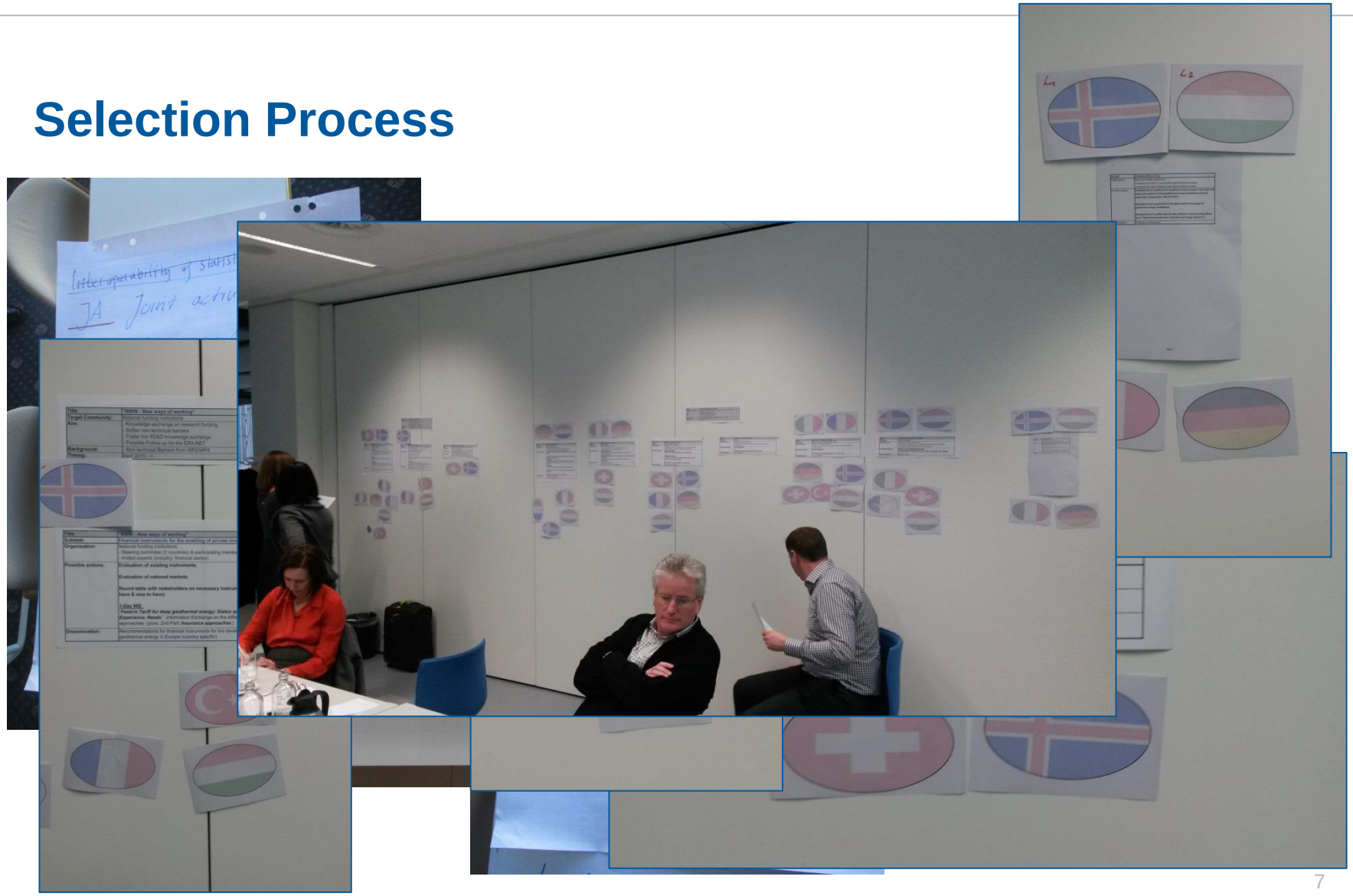
Selection Process



Selected Topics

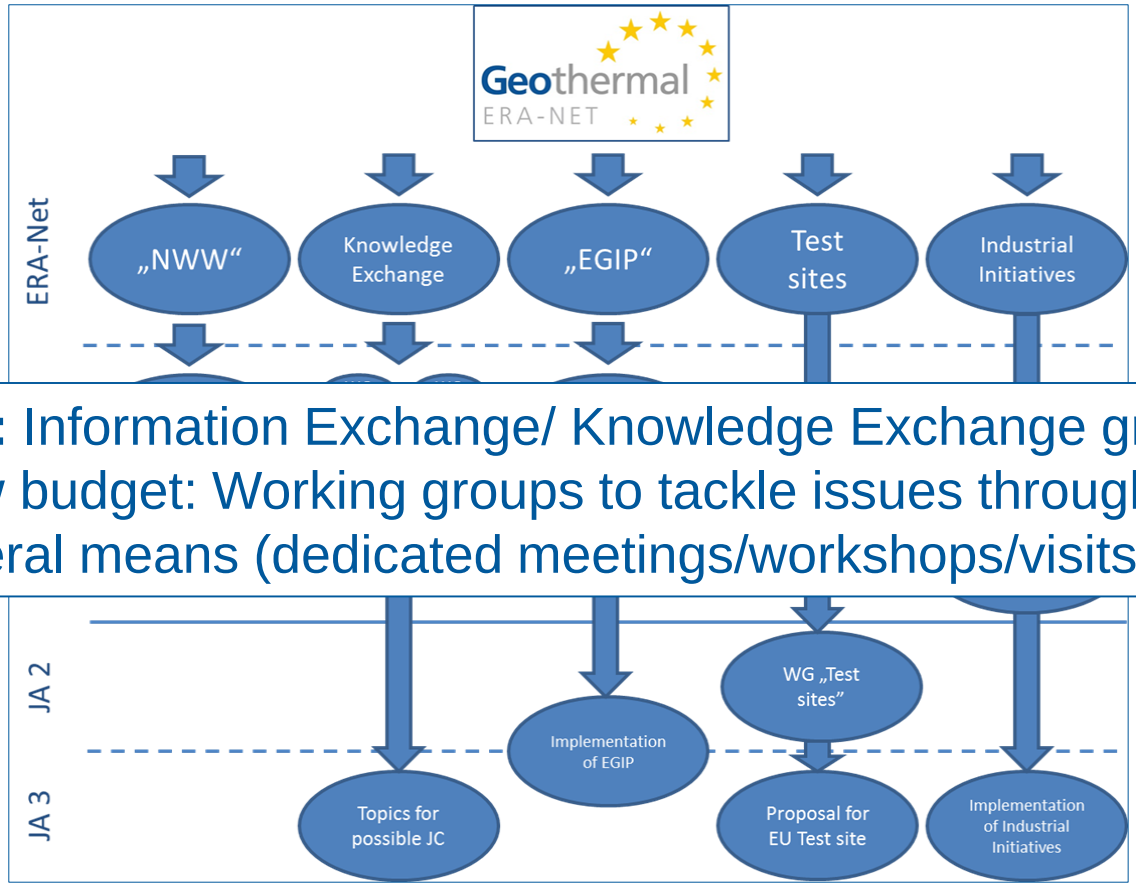
1. Financial Instruments and Funding
2. Operational issues
3. Public relations and communication (acceptance)
4. New Concepts and innovative ideas
5. Reservoir sustainability
6. European Geothermal Information Platform
7. Data consistency

→ in parallel: Development of a possible scheme for joint activities

The Bottom-up Approach for European Cooperation

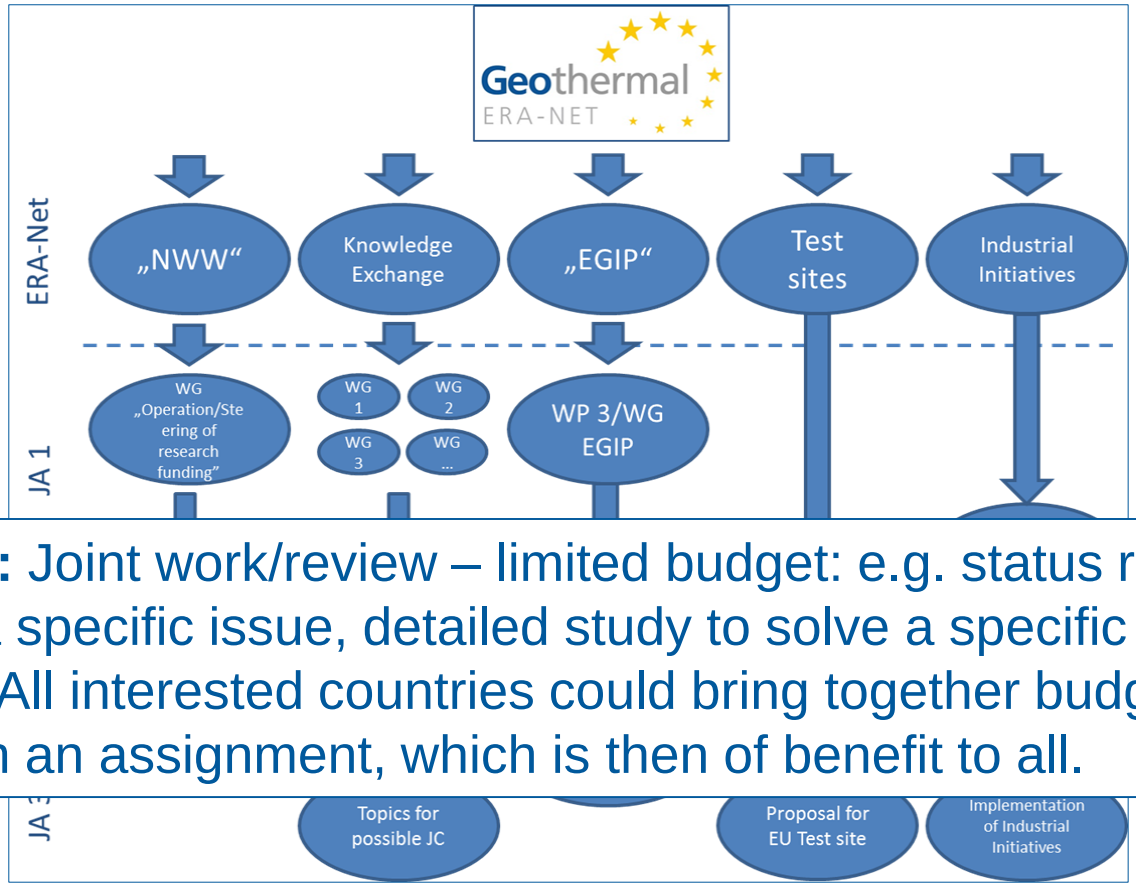
- Requirements:
  - Minor effort of financial and human resources
  - Based on the input from the geothermal community to ensure the necessity of the results
  - Integration of stakeholders from the different fields of geothermal energy
  - Capable to produce high-quality results and solutions for non-technical and technical issues
  - Capable to identify several topics for joint calls/tenders/projects

The Bottom-up Approach for European Cooperation



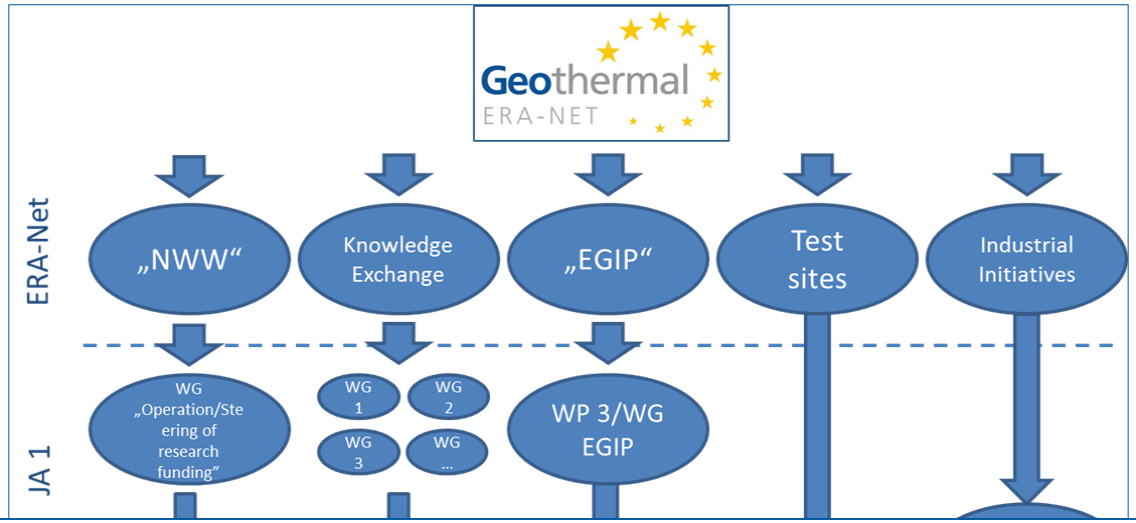
JA1: Information Exchange/ Knowledge Exchange groups - low budget: Working groups to tackle issues through several means (dedicated meetings/workshops/visits/....).

The Bottom-up Approach for European Cooperation



JA2: Joint work/review – limited budget: e.g. status report on a specific issue, detailed study to solve a specific issue etc. All interested countries could bring together budget for such an assignment, which is then of benefit to all.

The Bottom-up Approach for European Cooperation



JA3: Joint Call – significant budget: A joint call allows stakeholders in the participating countries to work jointly on developing new insights and new systems, in contrast to the first two types of joint activities that essentially aim to improve availability of or analysis of existing information, where it is required.

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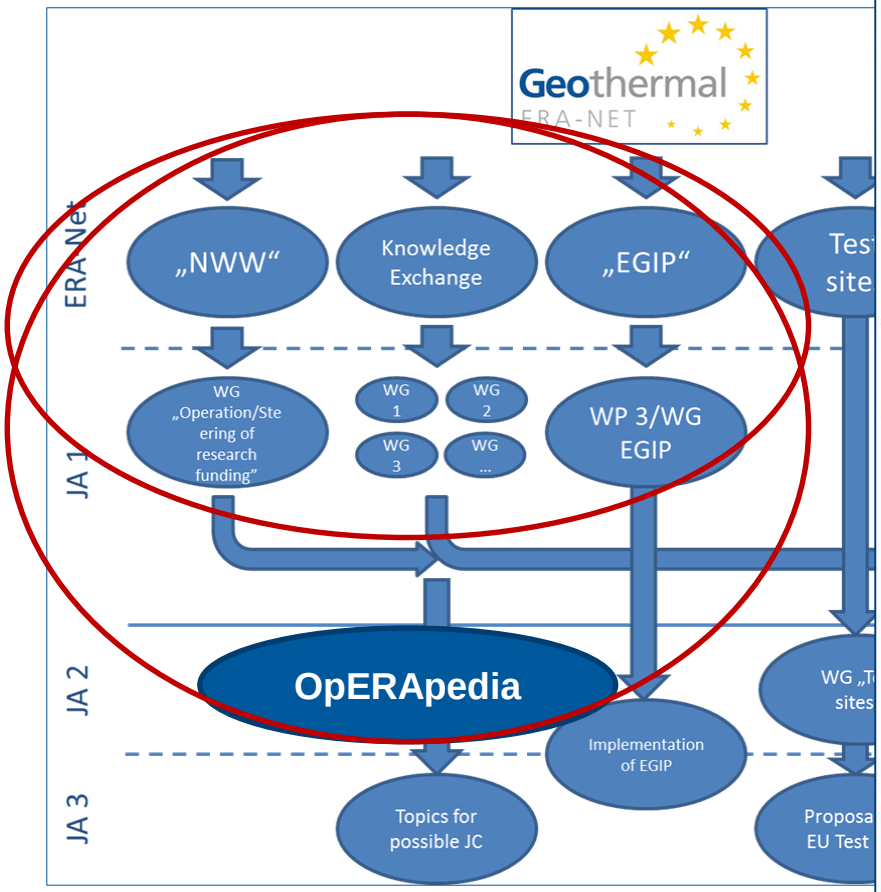
The Bottom-up Approach for European Cooperation



7 Joint Activities (JA1) on the selected topics

NWW

OpER

EGIP

ReSus

Geothermal
ERA-NET

Report on common interests for
joint activities and action plan

Reports on all joint activities including realized follow-up options…
…after the lunch break!

Outlook – From JAI 2 JAII

1. Invited Workshop – "*Barriers & Opportunities and Policy Recommendation*" *October 5th 2015, Brussels*
2. **Operational issues**
3. **Public relations and communication (acceptance)**
4. **New Concepts and innovative ideas**
5. **Reservoir sustainability**
6. **European Geothermal Information Platform**
7. **Data consistency**

Outlook – From JAI 2 JAII

1. Invited Workshop – "*OpERA - Operational issues of geothermal energy installations in Europe*", *October 1st & 2nd, Vaals (NL)*
2. *Report "Operational Issues in Geothermal Energy in Europe", 10/2016*
3. **Public relations and communication (acceptance)**
4. **New Concepts and innovative ideas**
5. **Reservoir sustainability**
6. **European Geothermal Information Platform**
7. **Data consistency**

Outlook – From JAI 2 JAII

1. Invited Workshop – "*OpERA - Operational issues of geothermal energy installations in Europe*", October 1st & 2nd, Veele (NL)
2. Workshop – "*PRGeo – Public relations and communication concepts for geothermal energy installations*", November 4th 2015, Essen. *Proceedings via www.geothermaleranet.eu*
3.
4. **New Concepts and innovative ideas**
5. **Reservoir sustainability**
6. **European Geothermal Information Platform**
7. **Data consistency**

Outlook – From JAI 2 JAII

1. Invited Workshop – "*OpERA - Operational issues of geothermal energy installations in Europe*", *October 1st & 2nd Veale (NL)*
2. Workshop – "*PRGeo – Public relations and communication concepts for geothermal energy installations*", *November 4th 2015, Europe*
3. Joint IEA-GIA/Geothermal ERA-NET Workshop –
   "New Concepts – New and Innovative Applications of Geothermal Energy",
   October 30th 2015, Geneva.
4.
5. **Reservoir sustainability**
6. **European Geothermal Information Platform**
7. **Data consistency**

Outlook – From JAI 2 JAII

1. Invited Workshop – "*OpERA - Operational issues of geothermal energy installations in Europe*", October 1st & 2nd, Veele (NL)
2. Workshop – "*PRGeo – Public relations and communication concepts for geothermal energy installations*", November 4th 2015, Essen
3. Joint IEA-GIA/Geothermal ERA-NET Workshop – "New Concepts – New and Innovative Applications of Geothermal Energy",
4. Survey "Reservoir Sustainability" – 09/2015 & 03/2016
5. Report – 05/2016 see www.geothermaleranet.eu
6. **European Geothermal Information Platform**
7. **Data consistency**

Outlook – From JAI 2 JAII

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2. Workshop – "*PRGeo – Public relations and communication concepts for geothermal energy installations*", November 4th 2015, Essen
3. Joint IEA-GIA/Geothermal ERA-NET Workshop – "New Concepts – New and Innovative Applications of Geothermal Energy", Report – 05/2016 see www.geothermalnet.eu
4. Survey "Reservoir Sustainability" – 09/2015 & 03/2016
5. EGIP Expert Group 01/2016-10/2016
6. Report incl. INSPIRE Guidelines 10/2016
7. **Data consistency**

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Outlook – From JAI 2 JAII

1. Invited Workshop – "*OpERA - Operational issues of geothermal energy installations in Europe*", October 1st & 2nd, Veale (NL)
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4. Survey "Reservoir Sustainability" – 09/2015 & 03/2016
5. EGIP Expert Group 01/2016-10/2016
6. Report incl. INSPIRE Guidelines 10/2016
7. Continuous workflow
   Including publications, survey, data analysis etc. via: www.geothermaleranet.is

Outlook – From JAI 2 JAII

1. Financial Instruments and Funding
2. Operational issues
3. Public relations and communication (acceptance)
4. New Concepts and innovative ideas
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Outlook – From JAI 2 JAII

1. As: “NWW – New ways of working”
   to be continued in the consortium and a possible follow-up project
2. OpERApedia – Webbased Information Portal on operational issues – 1st half 2017
3. Public relations and communication (acceptance)
4. New Concepts II – Follow up JA in possible follow-up project
5. Reservoir sustainability
6. Realizing EGIP - Topic for possible Follow-up projects
7. Continued work on data management, possible cooperation w. IEA-Geothermal

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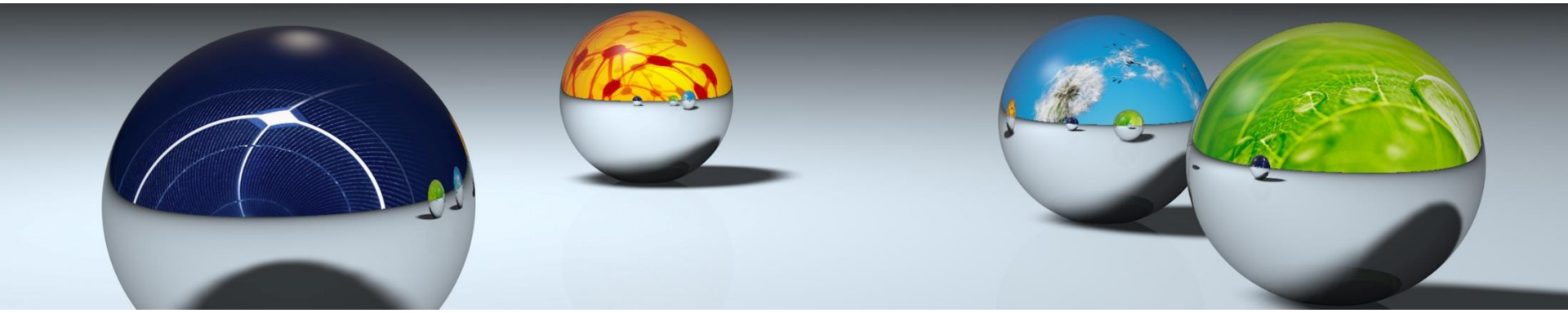

Further information: www.geothermaleranet.is

Thank you!

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