Implementing Geological Disposal of Radioactive Waste
Technology Platform

IGD-TP preparations for a WMO college within EURAD

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EF8, 3rd and 4th December 2018, Berlin, Germany
EURAD governance and college structure (a reminder)

- **GENERAL ASSEMBLY**
  - WMOs college
  - TSOs college
  - Res college

- **BUREAU of the General Assembly**
  - 3 WMOs repr. elected by WMOs college
  - 3 TSOs repr. elected by TSOs college
  - 3 Res repr. elected by Res college
  - CSO observer

- **Work Package Boards**
  - RD&D WPn
    - WP Leader
    - Task Leaders
  - RD&D WPn
    - WP Leader
    - Task Leaders
  - RD&D WPn
    - WP Leader
    - Task Leaders
  - Str. Stu WPn
    - WP Leader
    - Task Leaders
  - KM WPn
    - WP Leader
    - Task Leaders

- **Programme Management Office**
  - External advisory committee
    - Scientific experts (from international)
    - Civil Society,
    - Waste Producers (NUGENIA), IAEA
    - NEA? EC?

- **Coordinator**

- **Beneficiaries, Linked Third Parties**
  - nagra.
  - enresa.
  - ONDRAF/NIRAS
  - POSIVA
  - COVRA
  - ANDRA

- **07/12/2018 2**
IGD-TP (a reminder)

Background and structure

• established 2009
• technical RD&D group focused on geological disposal & radwaste management
• established by the European Commission, now led/funded by an Executive Group comprising representatives of 11 European WMO’s/organisations responsible for implementation-related R&D
• 120+ member organisations / 600+ individual members

Vision

• Co-ordinate RD&D to help ensure realisation of our vision:
‘By 2025, the first geological disposal facilities for spent fuel, high-level waste, & other long-lived radioactive waste will be operating safely in Europe’

Objectives

• Establish common research needs & develop project scopes to ensure safety case needs alignment and facilitate stepwise implementation
• Build confidence in GDF; reduce overlapping work; produce savings; & make better use of existing competence/infrastructures
Proposal for IGD-TP EG to co-ordinate the ‘WMO College’

• For almost a decade the IGD-TP EG has been functioning as a successful and enduring WMO RD&D platform

• Already acted on behalf of all WMO’s to input WMO comment into the JOPRAD developed common Strategic Research Agenda (SRA) and latterly the EURAD SRA

• Co-ordinated WMO review comments on the developing EURAD proposal

• Now offer to do this more formally by co-ordinating the ’WMO College’ within EURAD

• At our last executive group meeting (EG27) we developed a proposal to incorporate non IGD-TP EG WMO input into the WMO college/EG structure

• Detailed proposal sent to all non IGD-TP Executive Group WMO’s (October 2018)

• Later today we have planned a ‘WMO only’ session to discuss this proposal and start to agree how the WMO College will be formed and function.
## Implementing Geological Disposal of Radioactive Waste

**Technology Platform**

WMO’s mandated in EURAD (represented in the college)

<table>
<thead>
<tr>
<th>Country</th>
<th>Mandated WMO</th>
<th>EG member</th>
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<tbody>
<tr>
<td>Austria</td>
<td>NES</td>
<td>N</td>
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<tr>
<td>Belgium</td>
<td>ONDRAF/NIRAS</td>
<td>Y</td>
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<tr>
<td>Czech Republic</td>
<td>SURAO</td>
<td>Y</td>
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<tr>
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<td>Dekom</td>
<td>N</td>
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<tr>
<td>Finland</td>
<td>Posiva</td>
<td>Y</td>
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<tr>
<td>France</td>
<td>Andra</td>
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<td>PURAM</td>
<td>Y</td>
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<tr>
<td>Lithuania</td>
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<tr>
<td>Netherlands</td>
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<tr>
<td>Ukraine</td>
<td>Chornobyl R&amp;D Institute</td>
<td>N</td>
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</tbody>
</table>
Details of the Executive Group’s proposal (1)

Three high level drivers for IGD-TP evolution

• The EC’s shift to funding of EURATOM RD&D through joint programming where WMO’s RE’s and TSO’s need to come to a common consensus

• IGD-TP is fully supportive of EURAD. EURAD will address a range of important IGD-TP/WMO needs, but not all of them.

• The wish to include the willing mandated WMO’s in the EURAD proposal in a WMO college.
Details of the Executive Group’s proposal (3)

Scope and Remit

• To accommodate wider membership, the EG proposed that the IGD-TP remains focused on geological disposal, with some interest in upstream activities, but expands to include scope of greater relevance to nations with small programmes, e.g. disposal of sealed sources etc

• EURATOM R&D addresses an important, but small proportion of WMO research budget/scope. The EG will therefore evolve into a position where we work towards developing R&D projects and activities that are unlikely (for a variety of reasons) to be integrated into EURAD (I. Gaus, will talk more about this tomorrow)

• We intend to retain and enhance our wider IGD-TP membership, to continue to foster interest in our research needs and our WMO/EG viewpoints.
Details of the Executive Group’s proposal (2)

Membership of the Executive Group

• IGD-TP EG would act as the co-ordination vehicle for the proposed WMO College and work to facilitate the formation of a joint position of all WMO’s participating in EURAD

• The EG structure would be developed to allow wider WMO membership, all supporting the IGD-TP vision, but retaining a focused/effective core. To achieve this two options were offered to WMO’s mandated in EURAD:

  – New WMO’s were invited to be members of the EG, noting that this requires a commitment (both financial and time)

  – Those EURAD mandated WMO’s who do not want to join the EG, can also interact with the IGD-TP EG to come to a joint position of all EURAD mandated actors. The IGD-TP EG will facilitate this by organising meetings (probably one per year) where focus will be placed on WMO input to the ongoing EURAD programme and any successor programmes.
**WMO bureau representatives**

**Initial planning/thinking**

- WMO College will need to agree/elect three representatives to engage in the Bureau of the General Assembly
- A ~2.5 year term has been proposed
- Should include at least one representative from a country with early stage/small programme
- Bureau members must represent the interests of their college and not just their own organisation or country
- Bureau representatives should ideally also be IGD-TP EG members
- ToR for the Bureau developed by the EURAD PMO
  - at least three meetings per year envisaged (2 Bureau and 1 GA)
  - Time and T&S funded by host organisation
Concluding messages

• IGD-TP is **fully supportive of EURAD**. EURAD will address a range of important WMO needs, but not all of them.

• Executive Group will therefore co-ordinate and **develop collaborative research scopes and deliver them in parallel to EURAD** involvement (e.g. via multilateral WMO cooperation).

• IGD-TP Executive Group offers to co-ordinate the views of mandated WMO’s within the WMO College – so WMO’s can **speak with one voice**.

• To achieve this, in an inclusive manner, the IGD-TP will **adapt/evolve**.

• Executive Group have been openly engaging on this issue for around a year now and are **developing an appropriate role in EURAD**.

• A ‘WMO only’ meeting is planned later today to discuss these ideas further (all mandated WMO’s have been invited to contribute).