

Deployment Plan Working Group

Status Report

November 2011

**Implementing Geological Disposal
of Radioactive Waste
Technology Platform
(IGD-TP)**

Gérald Ouzounian, Chair of DP WG



© IGD-TP



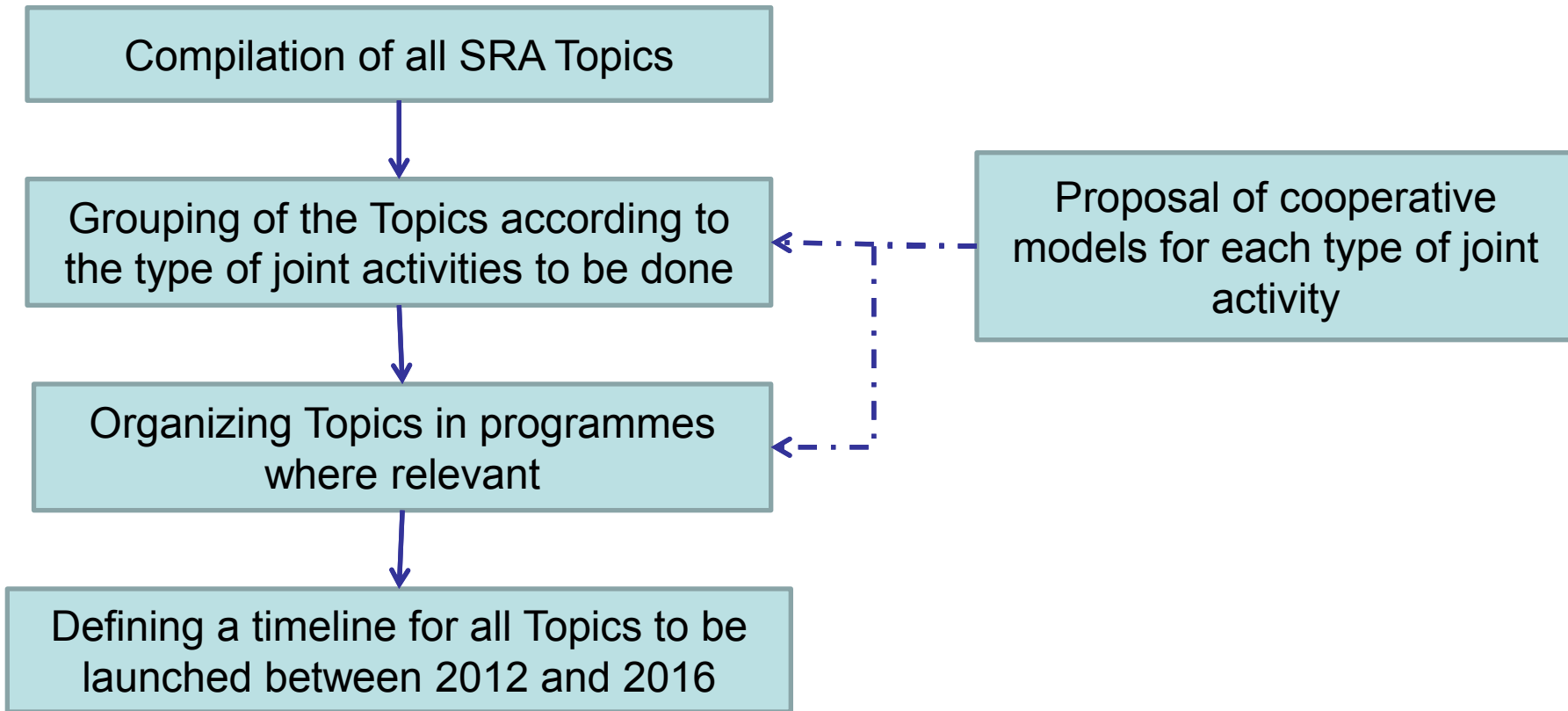
© SecIGD

DP WG Meetings

- February 7, 2011, Paris
 - Definition of the approach
- April 8, 2011, Stockholm
 - Presentation of the methodology and grouping of SRA Topics
 - Compilation of the proposals for selected Topics for immediate deployment (request from the Executive Group meeting no 4)
- May 31, 2011, Turku
 - Clarifications on the approach and of the needs
 - Drafting of the contents of the Deployment Plan report
- July 5, 2011, Telephone meeting
 - Drafting of the final contents of the DP report
- August 30, 2011, Stockholm
 - Brainstorming and agreement on the Master Deployment Plan of the DP
 - Review of written contributions
- October 14, 2011, Telephone meeting
 - Review of contributions and detailed discussion
- November 8, 2011, Heathrow
 - Final review before draft submission to the Executive Group



General Methodology of Deployment



Type of Joint Activities

- Five types of joint work were identified
 - Information Exchange Platform (IEP)
 - Organisational Working Group (ORWG)
 - Technical/Scientific Working Group (TSWG)
 - Technical Project Group (TEP)
 - Technological Transfer (TT)



© IGD-TP



© SecIGD

IEP – Information Exchange Platform

- Organized forum of exchange between IGD-TP members and participants
 - Memorandums of understanding or exchange agreement on a non-commercial basis
 - In-kind contributions
 - Lifetime of an IEP depends on the its goal
 - Can be limited when a product is expected, for example a roadmap
 - Can be unlimited for cooperative work; needs clear timetable and deadlines for deliverables
 - Ideal for debating new ideas or approaches, to prepare projects and to share information
- ↪ ***Assumes to have balanced contributions between organisations joining***



© IGD-TP



© SecIGD

TSWG – Technical and/or Scientific Working Group

- Working group to further develop a technical or a scientific SRA Topic
 - For example, preparatory work for a joint project, or state-of-the-art report
- Costs could be covered by each participating party,
- Limited lifetime
- Outcome: planning reports, initiation of technical projects, workshops
 - ↳ ***Needs a clear commitment of the participants to plan and create a possible future Technical Project***



© IGD-TP



© SecIGD

ORWG – Organisational Working Group

- Working group for organizing around a Topic
 - Work focuses on the strategic or practical organizational approaches around an SRA Topic (e.g. organizing peer reviews or benchmarking)
 - Has a task and time specific focus compared with an IEP
 - Costs could be covered by each participating party,
 - Outcomes
 - Reports on specific questions related to the organization
 - Provision for more permanent infrastructures
- ↪ ***Needs a clear commitment of the participants to build and work and work on how a joint project could be organised***



© IGD-TP



© SecIGD

TEP – Technical Project

- Technical or scientific work on a specific SRA Topic or group of topics
- Can be launched after a preparation work
- Needs
 - A detailed project plan
 - A project agreement
- Costs- the number of options is large, we have at least :
 - Application for EC co-funding through the FPs calls
 - Funding shared among the partners involved in the TEP
 - Possible contribution (direct or in-kind) of the participants
- Agreement needed for the programme, governance, funding, IP rights
 - ↪ ***Needs a clear commitment of the participants to contribute to and work on a project***
 - ↪ ***Main trends and rules may be consistent with the FPs***



TT – Technological Transfer

- Balanced* contribution from the engaged parties
- Modalities to be defined
 - Agreements of transfer of previously acquired results or knowledge on a commercial basis
 - Less formal pooling of expertise on a non-commercial basis may potentially take place

** Implies to give a value to the already produced work in order to find a way of compensation*

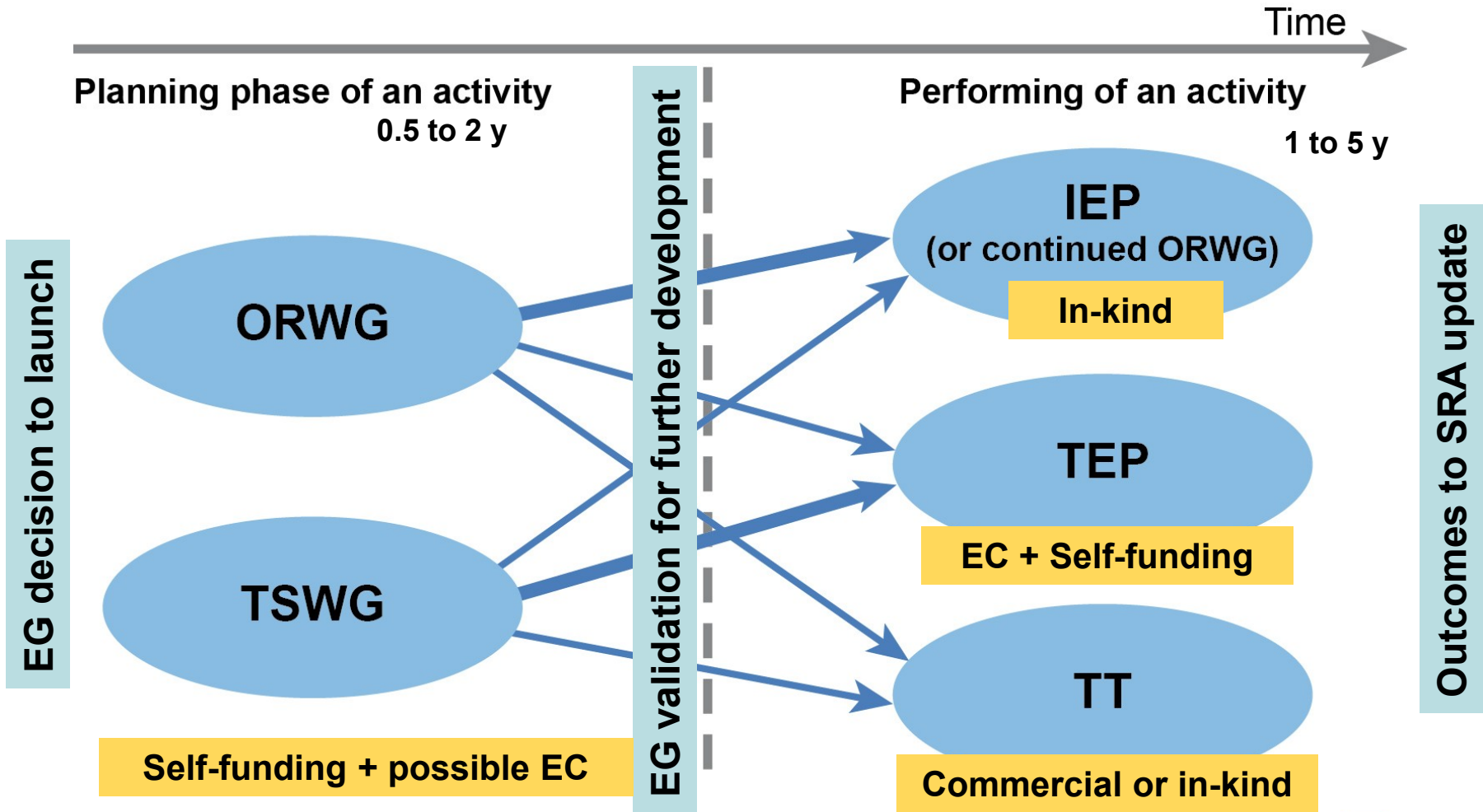


© IGD-TP



© SecIGD

Routes for deployment



Organisation of Topics and programmes

- Classification
 - all Topics were then classified according to the start date
 - the next step was to group the Topics in each of the above categories
 - the permanent actions, Cross-cutting activities and WMOs specific activities were segregated to clarify the table
- Selection of Topics to serve as test cases, so called “*Pilot Projects*”



© IGD-TP



© SecIGD

Outcomes of the Selections

- Selection of joint activities for immediate deployment, submitted to the EG and approved
 - Evaluate safety of construction and operations - ventilation etc
 - C-14
 - Seals and plugs
 - In-situ experiments on bentonite – state of the art
 - Increase safety case tool testing
- Selection of one small joint effort to be worked as an example of one of the models for future cooperation within the SecIGD project
 - ***Retrieval of prototype repository – selected***
 - Full scale plugging and sealing experiment
 - Bentonite state of the art in situ experiment
 - Safety of operations and construction



Content of the DP report (1/2)

- The general vision of the Deployment (HOW)
 - Governance (generic for all joint activity types)
 - Project Management (generic)
 - Types of joint activities for deployment work on the SRA (description, the text exists)
- Define the working rules for the different types of deployment activities (How and what) concerning joint activity management
 - Outcomes from SecIGD background work
 - Regrouping of the SRA (in Appendix in more detail, the excel)
 - Information Exchange Platform (IEP)
 - Organisational Working Group (ORWG)
 - Technical/Scientific Working Group (TSWG)
 - Technical Project Group (TEP)
 - Technological Transfer (TT)



Content of the DP report (2/2)

- Timeline for the SRA Key topics and topics (WHAT) deployment (WHEN partly in SRA)
 - First pilot project to be implemented (in Appendix)
 - Remaining three Topics from the list (in Appendix) for deployment
 - Last "50" from the SRA on the rough timeline for deployment
- Way forward and highlighting the timing opportunities for the IGD-TP participants (WHO - Terms of Reference of the EG group)
 - Decision making in the EG for lead and participation, scoping of the activity
 - Announcing opportunities to participants
 - Involvement of other stakeholders
- Conclusions



• Appendices



Main production

- Detailed review of the timetable

↳ Production of a reference timetable as a part of the **Master Deployment Plan**



Master Deployment Plan (1/ 3)

SRA Topics and their deployment activities						
Waste forms and behaviour: TSWG launched in 2011 (Topics 2.1, 2.4, 2.5)						
Plugging & Sealing: TSWG launched in 2011 (Topics 3.6, 3.10, decision of the June 2011 EG)						
Waste forms and their behaviour: TSWG on C14 (topic 2.2, Releases from ILW and their detailed characterization)						
Monitoring the Environmental reference state: TSWG (Topic 6.3)						
Operational safety: ORWG (Topics 5.1 and 5.2)						



Master Deployment Plan (2/ 3)

SRA Topics and their deployment activities						
Materials interactions: TSWG and TEP (Topics 1.1 - the only TSWG, 3.11, 3.12, 3.15, 3.17) especially cement and clay based interactions						
Monitoring programme: TSWG (Topics 6.1, 6.2, 6.4)						
Safety Case: TSWG on process model benchmarking (Topic 1.3)						
Safety Case Peer review: ORWG (Topic 1.2)						
Long-term stability of bentonite in crystalline environments: TEP (Topic 3.9)*						



Master Deployment Plan (3/ 3)

SRA Topics and their deployment activities							
<p>Various topics (Topics 7.1, 3.1, 3.2, 3.3, 3.4, 3.5, and 3.16) belonging to different categories - Topics concern the governance of the decision making and various topics related to technical feasibility of repository components</p>							
<p>ORWG on Adaptation and optimisation of the repository (topic 4.1)</p>							
<p>IEP on Communicating result from RD&D (CC1?, CC4)</p>		... Insotec ...					
<p>Competence Maintenance, Education and Training: ORWG CMET (CC 2)</p>							
<p>Nuclear Knowledge Management: ORWG NKM (CC3)</p>							
<p>WMOs IEP (WMO 1-6)</p>							



Conclusion

- Selection by the EG of the of joint activities for immediate deployment
 - Further decision on how to implement
 - Team
 - Team leader
 - Type of product
 - Deadline
- Production of a Master Deployment Plan (incl. timeline)
- EF 2 to present the DP and discuss first actions to be launched

