
Implementing Geological Disposal of Radioactive Waste Technology Platform IGD-TP

Philippe Lalieux, IGD-TP Chairman

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Welcome to the 3rd Exchange Forum

November 29th, Paris



A TP ... as applied to IGD-TP

Our vision is that by 2025, the first geological disposal facilities for spent fuel, high-level waste, and other long-lived radioactive waste will be operating safely in Europe.



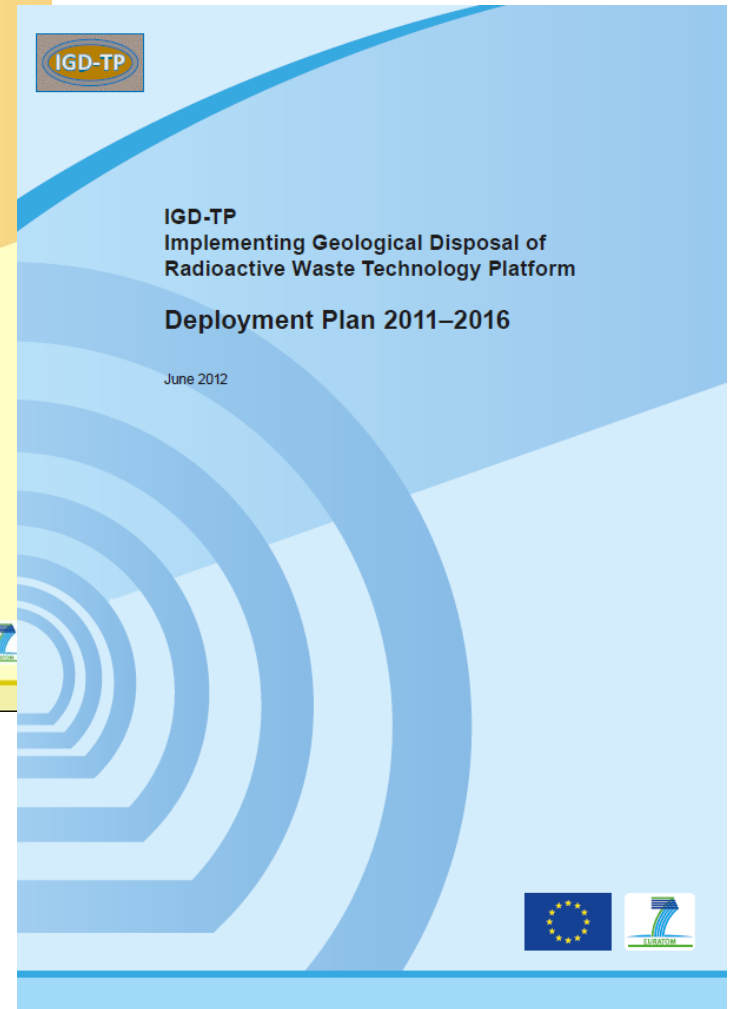
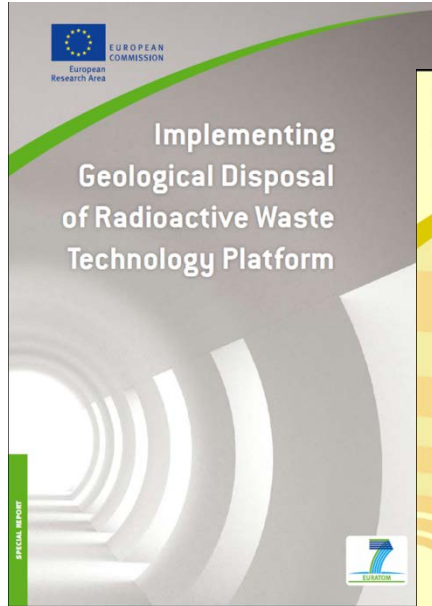
Vision Report
(2009)
Launch

SRA
(July 2011)
RD&D priorities
for licensing & implementation

Deployment Plan
(June 2012)
Joint Activities



www.igdtp.eu/



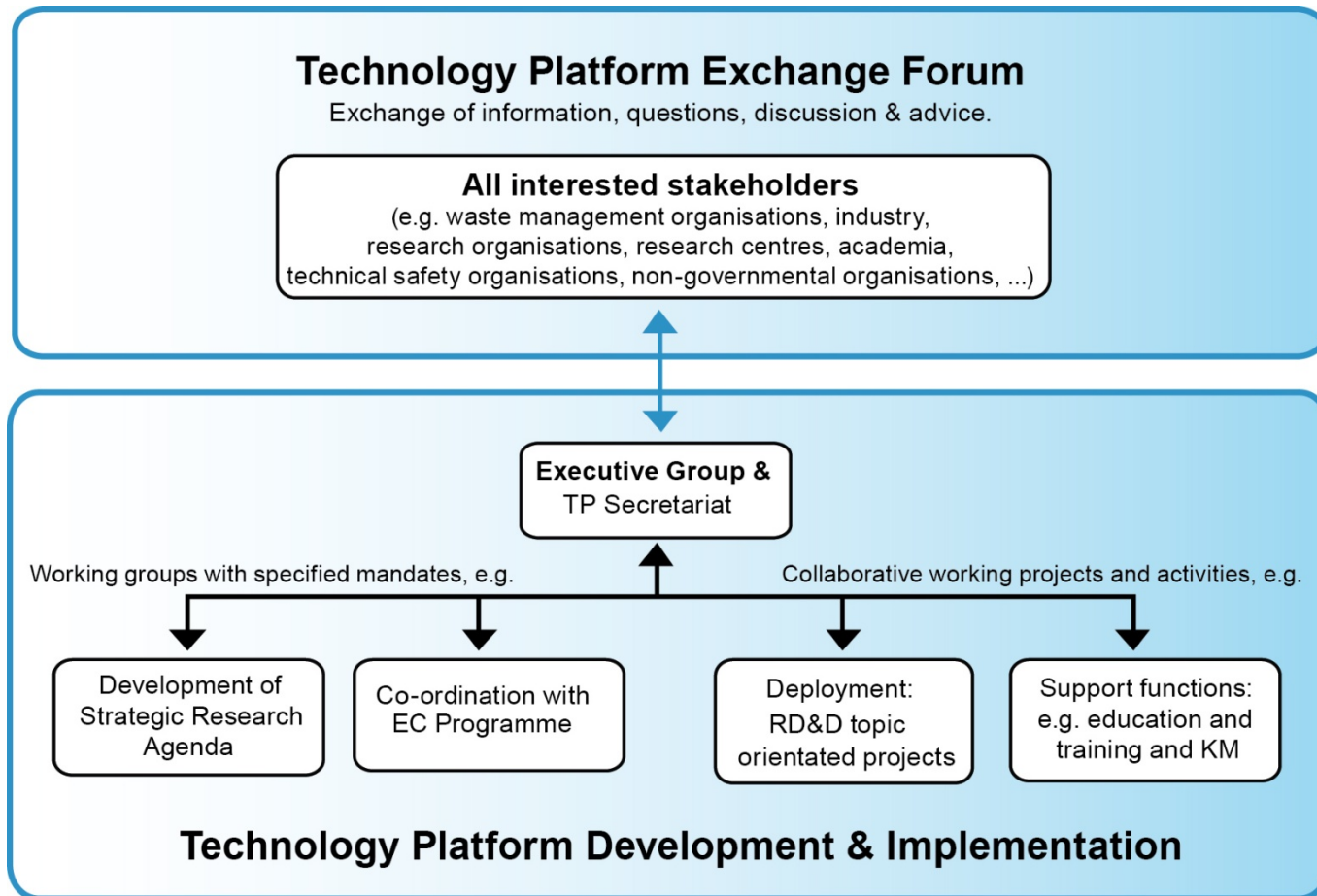
What is the Exchange Forum ?

The Exchange Forum (EF) gathers

- all relevant technical and non technical stakeholders in Europe
 - industry, research and academia, technical safety organisations, non-governmental organisations, local stakeholders
- willing to contribute to the SRA and its implementation



IGD-TP's Organisation



Source: IGD-TP's Vision Report
(edited version)



~100 Members

- Waste Management Organisations
- Academia
- (Nuclear) Research Centers
- Consulting companies
- Industry
- Syndicates
- + NWMO
- + RWMC
- ...

- Executive Group

- Andra
- Arao
- BMWi
- Covra
- Enresa
- Nagra
- NDA
- Ondraf/Niras
- Posiva
- Puram
- SKB
- SURAO
- EC (observer)



Benefits to all (RD&D) stakeholders

- Share the remaining RD&D needs to foster implementation
- Offer opportunities to carry out joint RD&D
- Foster pooling of resources
- Create synergies & co-ordination, while avoiding duplication
- Build competence in geological disposal.
- Dissemination



Key Topics – Basis of the SRA

- Safety case
- Waste forms and their behaviour
- Technical feasibility and long-term performance of repository components
- Development strategy of the repository
- Safety of construction and operations
- Monitoring
- Governance and stakeholder involvement



Cross-cutting Activities

- relevant to every programme at any stage -

- Dialogue with regulators,
- Competence maintenance, Education and Training,
- Knowledge Management (incl. information preservation, memory keeping),
- Communication interfaces and other activities supporting information exchange.



Specific actions kept at national level

- Site characterisation issues
- Transportation
- Requirement management systems
- Waste acceptance (quality assurance and safeguard issues)
- Industrial scheme
- Economics of funding and planning



Working Methods (1)

– Information Exchange Platform (IEP)

- Ideal for debating new ideas or approaches, to prepare projects and to share information

– Organisational Working Group (ORWG)

- Strategic or practical organizational approaches around an SRA Topic (e.g. organizing peer reviews or benchmarking)



Working Methods (2)

– Technical/Scientific Working Group (TSWG)

- Working group to further develop a technical or a scientific SRA Topic

– Technical Project Group (TEP)

- Follow up of a specific technical project

– Technological Transfer (TT)

- Balanced agreement



Major achievements of the IGD-TP so far

In line with the SRA Key topics and DP

- 12 on 16 Joint Activities already launched
- 7 EU project launched or to be launched

Way forward

- One or two TEP(s) to be launched per year
- 4 JA to be launched before 2016
- Involvement of a broader range of stakeholders
- New ways of working together to be studied
- Stimulating new ideas that could complement the SRA



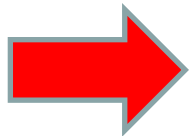
Objectives of the 3rd EF

- Present the status of the on-going Joint Activities and there major achievements in 2012
- Facilitate the emergence of additional projects originating e.g. from academic institutions that would complement the SRA
- Liaise with SITEX
- Start reflexion on the interest and possibilities to improve stakeholder involvement in the IGD-TP
 - by opening the dialogue with all interested parties, in particular non-technical stakeholders



Objectives of Working Group 1

- Preparing the future projects, calls...
- Express interest in JA
- Launch new ideas / initiate new proposals by deepening contacts between science providers, Waste Management Organizations, ...
- How to move forward without waiting for the next EF



Exchange Forum participants are strongly encouraged to express their interest in the Joint Activity presented and to propose additional projects or ideas



Objectives of the Workshop on Societal Aspects

- Get input of a broader range of stakeholders on
 - Societal aspects of disposal to help IGD-TP further define its research agenda
 - How to gets/stay involved
- This Workshop is organised with the support from the EC INSOTEC project that investigates socio-political aspects of radioactive waste management.



Agenda - Keynotes

- EC news and Expectations for future Disposal RD&D Programme

C. Davies, EC

- SITEX Project (Sustainable network of Independent Technical Expertise for radioactive waste disposal - Support for regulatory functions)

C. Serres, IRSN, F. Lemy FANC



Agenda - Plenary Session « *On-going EU projects and projects submitted in 2012* »

J. Vira, POSIVA, Chair

JA 1 - Waste forms and their behaviour – FIRST NUCLIDES

P. Wikberg, SKB

JA 2 - Full scale demonstration of Plugging and Sealing DOPAS Project

J. Hansen, Posiva

JA3 - Waste forms and their behaviour (C-14) CAST project

R. Kowe, NDA

JA10 - Long-term stability of bentonite in crystalline environments (BELBAR)

P. Wikberg, SKB

Secretariat SecIGD2 Project

J. Delay, Andra



Agenda - Working Group 1 “Overview of the status of selected Joint Activities”

Sarah Vines, NDA, Rapporteur

JA5 - Safety of constructions and operations

P. Zuidema, Nagra

JA4 Monitoring the Environmental Reference State

P. Landais, Andra

JA12 Adaptation and optimisation of the repository

M. Dvořáková, RAWRA

JA 15 Nuclear Knowledge Management

J. Vira, Posiva

JA 14 Competence, Maintenance, Education and Training
(CMET)

M. Palmu, Posiva

Proposal for a new TSWG “Cement based materials, properties, evolution, barrier functions”

B. Kienzler, KIT



Workshop “Stakeholders involvement and societal aspects of Radioactive Waste Management”

Ewoud Verhoef , COVRA Rapporteur

- General presentation of the Interface Working Group
- Stakeholder involvement : First analysis of IGD-TP by the EC Insotec project
- Discussion to foster further interaction

*E. Verhoef, COVRA,
M. Martell, Merience
A. Bergmans, UANTWERP*



Findings of the Working Groups and way forward

Ph Lalieux, Chair

- Report of the Working Groups
- Discussion on the findings of the working groups and way forward
- Discussion to foster further interaction with stakeholders
- Conclusion and way forward for the IGD-TP in 2013- 2016



ALL!