EURAD Program – an Overview

Steps to Sharing workshop, Vienna

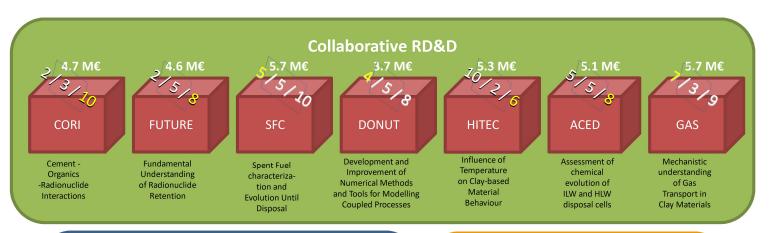
25th-26th September 2019

Marja Vuorio & Ole Kastbjerg Nielsen



First implementation phase (2019-2024) – EURAD-1

Programme Management office (2.5 M€)



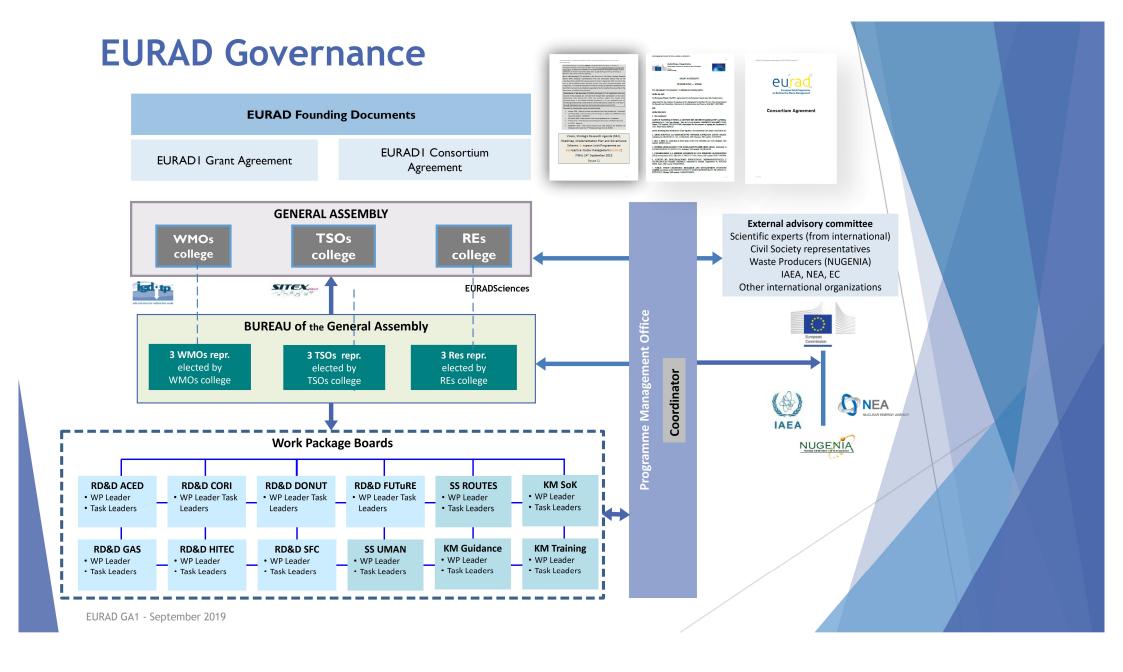








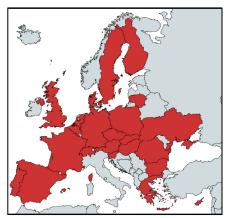




EURAD General Assembly - Organisations



19 Waste Management Organisations Whose mission covers the management and disposal of radioactive waste



CENTER
FOR PHYSICAL SCIENCES
AND TECHNOLOGY

INSTITUTE
WAS STREET, AND
WAS STR

13 regulatory Technical Support
Organisations Providing S/T basis for supporting
regulators' decisions



19 nationally funded Research Entities Working on the RWM challenges under the responsibility of MS

EURAD Bureau Representatives

- Bureau = accompanying body to the GA on prospective aspects
- It shall:
 - Assist the GA in the elaboration of proposals, notably for:
 - Update of EURAD Strategic Research Agenda and Roadmap;
 - Definition of the second wave of RD&D and Strategic Studies;
 - Definition of the Knowledge Management Work Plan
- It shall also represent the 3 colleges in the operational execution of EURAD (typically in case of a significant change/ deviation in the scientific/technical action).
- Acts in close collaboration with the PMO.
- Composition:
 - For each college, 3 representatives nominated by their respective College (including one representative from a country with early stage and/or small RWM programme)
 - Bureau shall designate a **Chairperson** among its members
- Meetings: 4 per vear

The 3 colleges appointed the following Bureau Representatives, from June 2019 until December 2021



Dirk Bosbach



Christophe Bruggeman Crina Bucur (RE)



(RE)



Valéry Detilleux (TSO)



(TSO)



Suvi Karvonen Ole Kastbjerg Nielsen (WMO)



Stéphan Schumacher (WMO)



Ferenc Takats (TSO)



Patrik Vidstrand (WMO)

EURAD PMO composition

Marie GARCIA, EURAD Coordinator with support from Tara Beattie and Jacqueline Oltra







Piet ZUIDEMA, EURAD Chief Scientific Officer



Paul CARBOL, JRC



Bernd GRAMBOW, RE

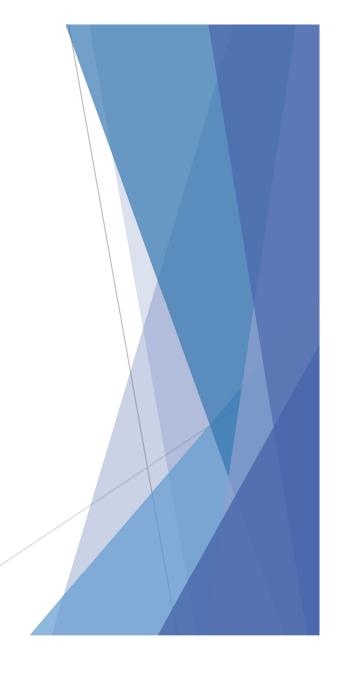


Elisabeth SALAT, TSO



Rob WINSLEY, WMO





EURAD GA1 - September 2019

PMO members from June 2019 until December 2021

Programme Management Office

- ► PMO = accompanying body to the GA for the overall planning, coordination and implementation of the Work Plan and the day-to-day management
 - It is under the responsibility of GA, acts in close collaboration with the Bureau
- PMO tasks are (described under WP1):
 - Management and coordination of the administrative, legal and financial aspects;
 - Contribute to overall operational scientific and technical coordination/ integration/ interfaces, for consistency and as facilitator;
 - Support the Bureau/General Assembly in the extension/update of SRA and Roadmap;
 - Internal communication and meetings of the Consortium, in closed link with the Bureau and the WPL;
 - Reports periodically to GA for operational development of EURAD activities, as needed and necessary
 - Contribute to dissemination, in close link with the WPL and the Bureau;
- Coordination of the interfaces and interactions at international level, in closed link



WP 9 - ROUTES

Strategic Study WP - Waste management routes in Europe from cradle to grave

Elisa Leoni

KoM 16 September 2019, IRSN, Fontenay-aux-Roses, France



Andra (FR, WMO)

ARAO (SL, WMO)

Bel V (BE, TSO)

CIEMAT (ES, TSO)

COVRA (NL, WMO)

DEKOM (DK, WMO)

EEAE (GR, WMO)

FTMC (LT, TSO)

FZJ (GER, RE)

GRS (GER, TSO)

IAE (LT, TSO)

INCT (PL, RE)

IRSN (FR, TSO)

IST-ID (PT, RE)

IST-LPST (PT, RE)

EIVM (SL, TSO) linked to JSI

LEI (LT, RE)

DMT (GER, RE) linked to NCSRD

NES (AT, WMO)

NTW (CS) linked to IRSN

NJF (SK, TSO)

ONDRAF/NIRAS (BE, WMO)

Orano (FR) linked to CEA (FR, RE)

RWM (UK, WMO)

SCK-CEN (BE, RE)

SKB (SE, WMO)

SSTC NRS (UA, TSO)

STUBA (SK, RE)

SÚRAO (CZ, WMO)

SURO (CZ, TSO)

TS Enercom (HU, TSO)

TUS (BG, RE)

UCY (CY, RE)

GSL (UK) linked to VTT (FI, TSO)

VUJE (SK, TSO)



































































Elisa Leoni

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WP 9 - ROUTES: What?

- Describe and compare the different approaches to waste characterisation, treatment, conditioning and long-term management routes
 - Identifying challenging waste to be collaboratively tackled within EURAD
 - Sharing experience, knowledge and comparing strategies for the management of challenging waste, with or without WAC, including specific issues for small inventory Member States
 - A specific work on the comparison of radwaste characterisation approaches and methodologies with a focus on legacy, historical and small amount of waste
 - Comparison of existing/preliminary WAC and approaches to set up WAC (methodology, licensing process, how compliance is verified...)
 - Strong interaction with CSOs so to promote discussion and participation of CS and to facilitate the translation of ROUTES work

Outputs

- ⇒ Identify the **safety-relevant issues** and **R&D needs** associated with the waste management routes (from cradle to grave)
- ⇒ Evaluate the feasibility and identify opportunities for collaboration (shared technologies and facilities) between MS

Inputs from:

Participants
past and present
EU projects
(CHANCE,
THERAMIN,
SAPIERR, CORI,
SFC, GAS ...)
initiatives carried
out at
international level
such as IAEA, NEA

WP 9 - ROUTES: Overview of tasks

T2 Identification of Challenging Waste to be collaboratively tackled within EURAD

T1 Coordination

2.1 Identify challenging wastes and map existing WM Routes (if any) 2.2 Compare knowledge and strategies for their management

T3 Description and comparison of RW characterisation approaches

3.1 Radio-analytical characterisation of RW and waste with

complex/toxic properties

3.2 Characterisation approaches of historical and legacy waste

T4 Identification of WAC used in MS for different disposal alternatives

4.1 Current use of WAC

4.2 Sharing experience on WM with/or without WAC

4.3 R&D needs an opportunities of collaboration

T6 Shared solutions in European countries

6.1 State of the art on shared developments/technologies/facilities

6.2 Case studies

6.3 Assess feasibility of developing shared solutions

15 RWM solutions for small amounts of waste about disposal options

Interaction with Civil Society

Elisa Leoni

EU Projects

and

NEA and IAEA

Other WPs

Coordinate exchange with:

guidance

review &

Thank you! Questions?