

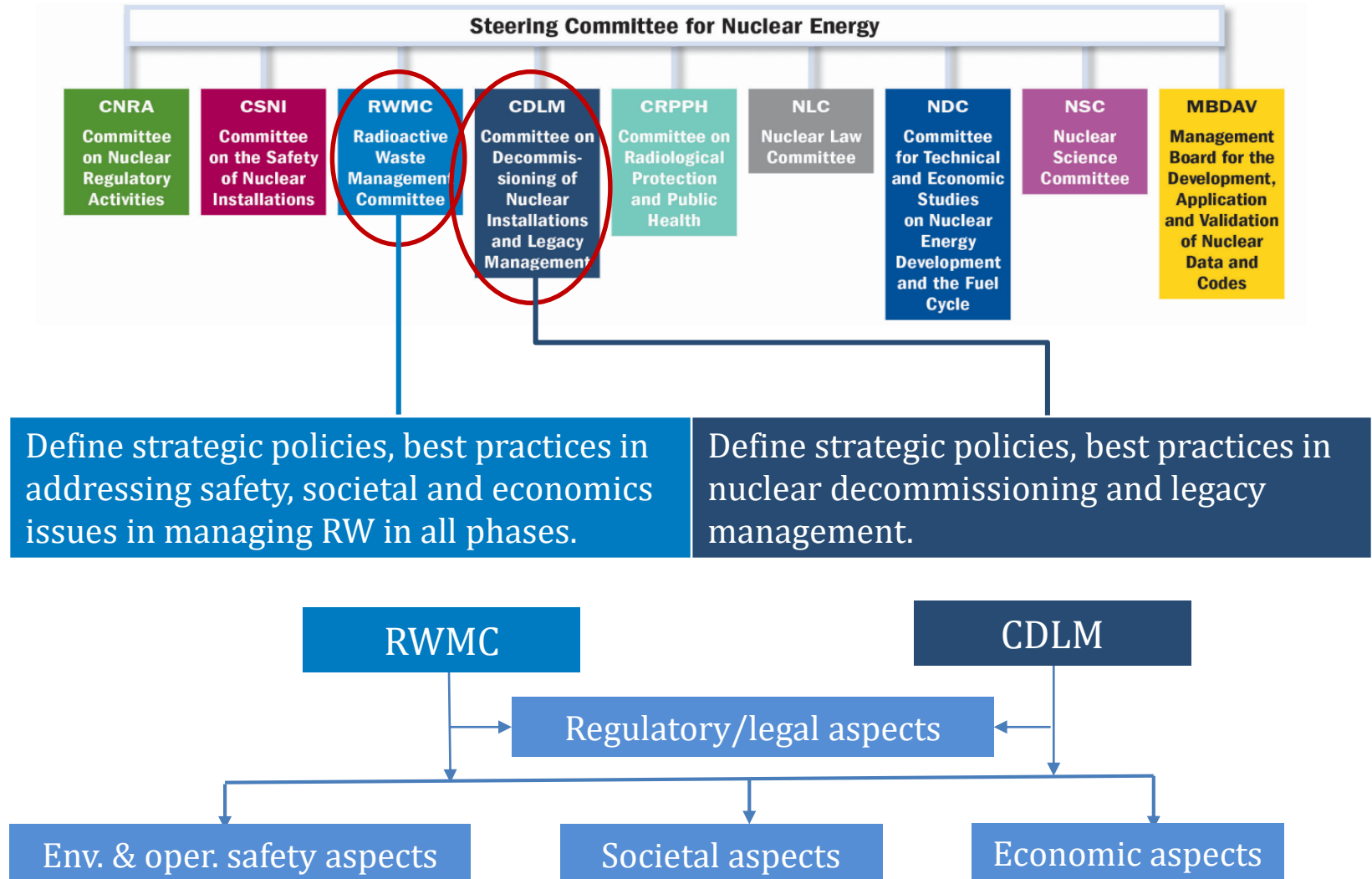
Radioactive Waste Management Committee (RWMC) Proposal for Joint Workshop on Predisposal Management

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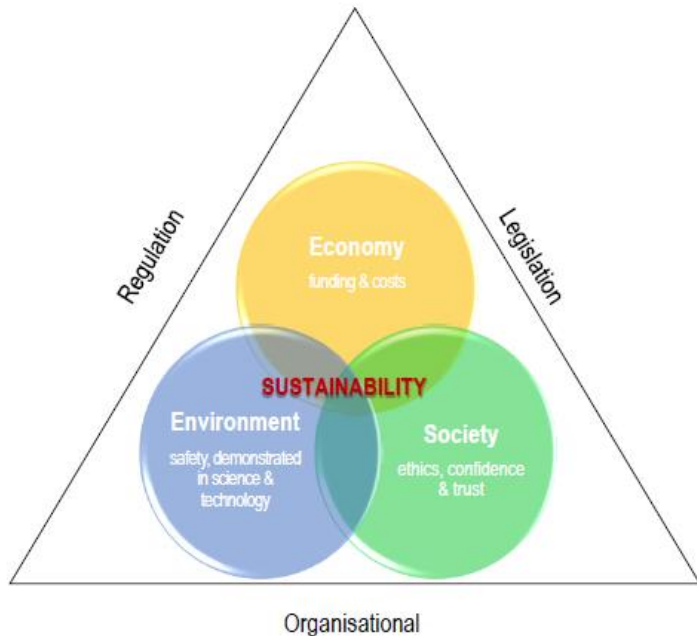
Head, Division of RWMD

NDC Meeting
July 11 , 2019

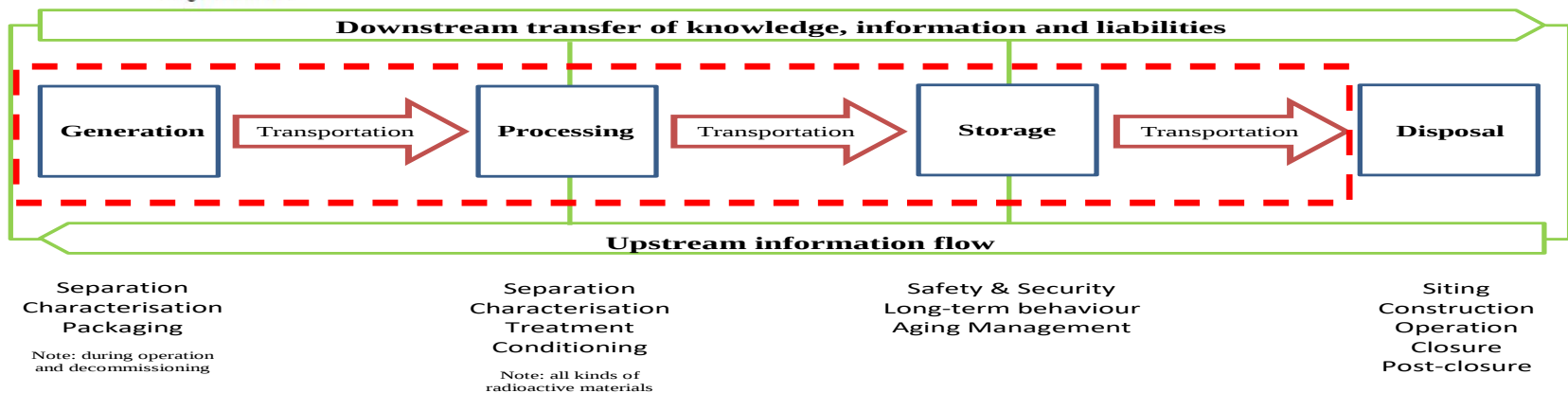
The RWMD supports 2 standing committees



HOLISTIC APPROACH accepted by the RWMC



- Each RWM stage is an integral part of RWM programme;
- Optimisation of each stage (safety, processes, economy) in logic of whole programme;
- Optimisation - covering all constituents of the RWM programme;
- Strategic decisions should be made based on understanding of both whole RWM system and each part of it.



Background

- The RWMC EGPMRW (2015-2017) examined predisposal storage of RW/SF, identified challenges and best practices focusing on storage and transportation requirements for SF and conditioned RW.
- EGPMRW PoW [NEA/RWM(2015)5]: *The EGPMRW noted the given timeframe does not allow a thorough evaluation of other predisposal management steps such as pre-treatment, treatment, conditioning, etc. Such steps are therefore proposed to be further investigated in the next phase of this project...*
- Recent work of other international organizations on predisposal management:
 - 2019: *IAEA SSG-45 Predisposal Management of RW from Medicine, Agriculture, Research and Education*.
 - 2018: *Status & Trends 1st report* – overview of RW/SF inventories, management practices, technologies and trends.
 - 2016 *IAEA SSG-41: Predisposal Management of RW from Nuclear Fuel Cycle Facilities* – provides guidance on management of all types of RW, from generation to disposal; roles and responsibilities and safety considerations .
 - Horizon 2020 Euratom: Developing pre-disposal activities identified in the scope of the European Joint Programme on Radioactive Waste Management (ongoing).

RWMC-52

Decision:

- the RWMC agreed with organisation of **NEA joint workshop** in early 2020 **for the broad discussion of holistic/multifactor optimisation of predisposal RWM**;
- **NEA STCs are invited to be co-organisers of the joint workshop** and hold their sessions for discussion of predisposal RWM related issues in the areas of their competency.

Dates: February 10 – 14, 2020

Place: Boulogne-Billancourt, NEA, Auditorium;

Invitees: IAEA, EC, WNA and others

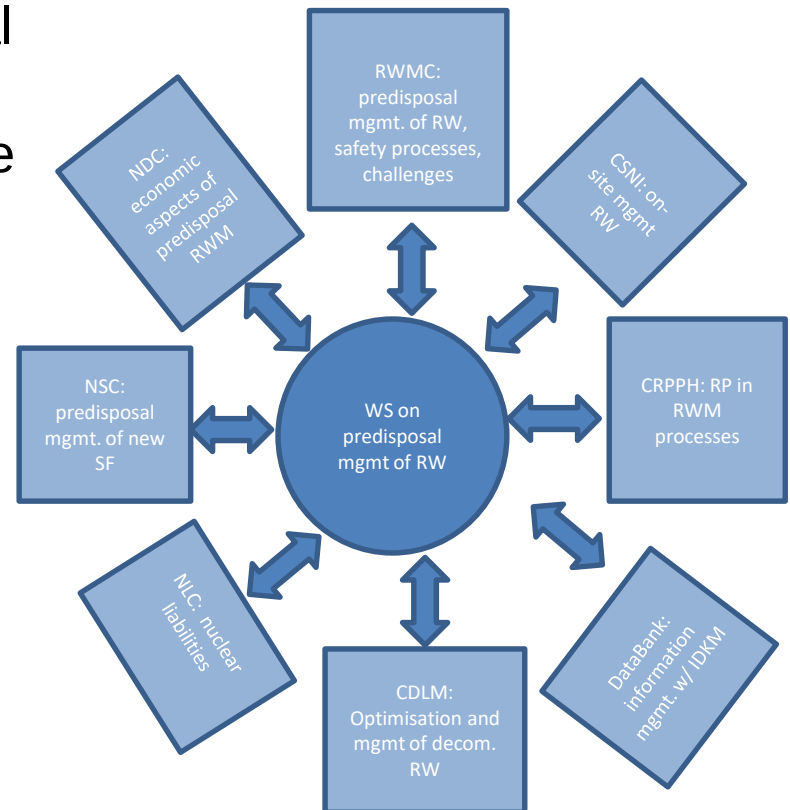
Predisposal Management Workshop

Objectives:

- To review the latest RW treatment/conditioning technologies within the RWM community, R&D needs, technical and social challenges in predisposal management.
- To better understand the impact of various factors, i.e. legal, technical, economics, societal, etc. on predisposal management and future WAC.
- To identify work topics for continuing the RWMC predisposal work, and potential collaborations with relevant STCs.

Next step:

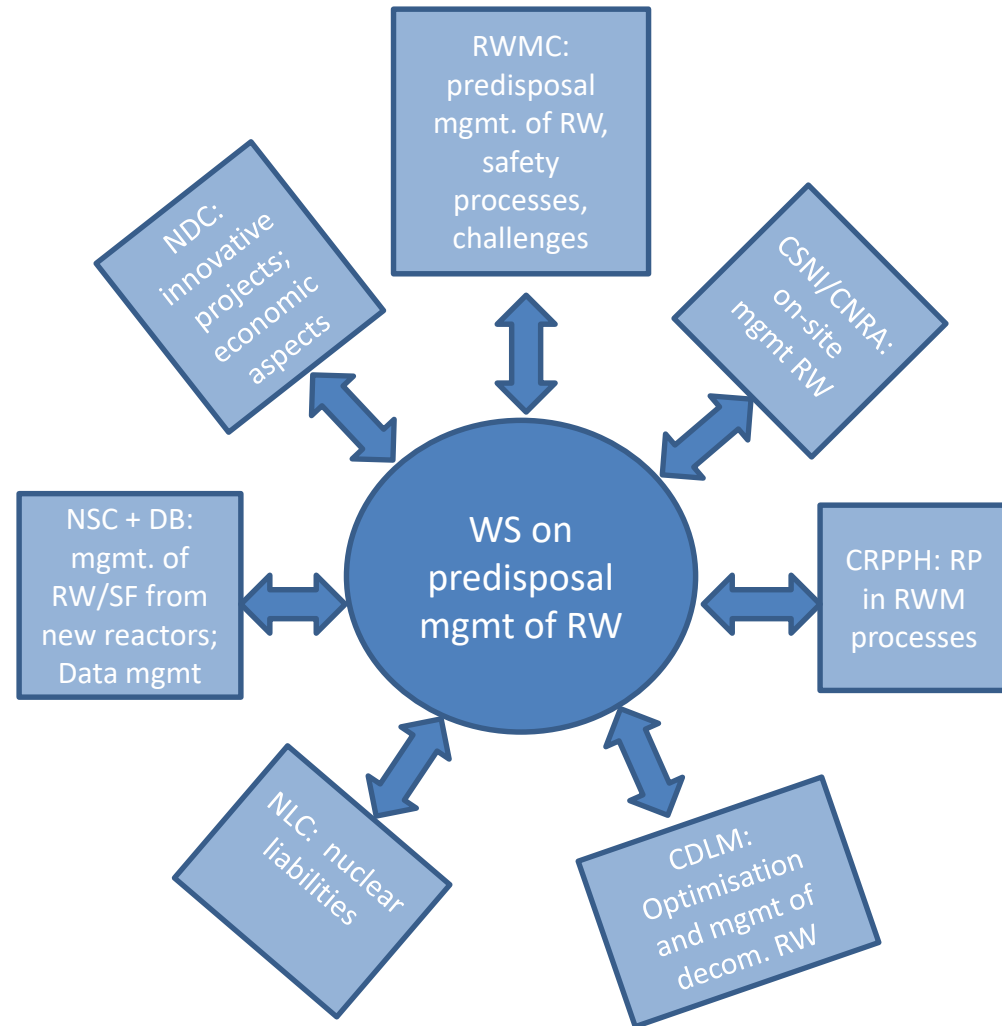
- assemble a PC to plan for an NEA workshop, with all relevant STCs.
- WS to be held in Q1-Q2 2020.



Predisposal Management Workshop

Next sessions with topics (primary) are proposed:

- **RWMC:** optimization of predisposal RWM - experiences, needs, challenges (environmental and societal);
- **CDLM:** optimization challenges, mgmt. of decom/legacy waste
- **CRPPH:** radiation protection in RW mgmt. processes
- **NDC:** RWM in innovative projects; economic aspects of predisposal mgmt.
- **CSNI/CRNA:** challenges on on-site RWM and change of ownership
- **NSC + Databank:** predisposal mgmt. of RW/SF from new reactors; exposed materials; data management;
- **NLC:** nuclear liabilities (incl. transportation).



Proposed Workshop Format

- Focus – predisposal RWM (RW generation, treatment, storage and transportation) with perspective of final disposal; multifactor optimisation;
- The broad audience: RWM and decommissioning operators, decision-makers, regulators, R&D institutions, project design organisations, experts in economic and societal areas, public and other interested parties;
- Dedicated NEA STCs' sessions according to their competencies; Approx. ½ day (4hours) for a session (RWMC session 1 day);
- STCs are free in developing of session programmes;
- A Programme Committee (PC) to coordinate preparation for the WS and development of the joint WS programme;

Proposed Workshop format Cont.

- The PC to be chaired by the RWMC Chair (H. Umeki);
- 1-2 representatives from the STC to be nominated to the PC; to lead sessions;
- RWMD Secretariat - general support and coordination of the preparation;
- Other NEA Divisions' Secretariat supports relevant PC members in developing session programmes and leading committees' sessions;
- After each session, conclusions to be agreed with participants. After the Workshop, the PC will discuss results and compile conclusions;
- The summary paper will be developed as the reference for the planning of future activities

Potential Topics for NDC

- Identify long-term SNF storage cost drivers
- Identify Costs, benefits, risks, and uncertainties that needs to be defined in an integrated model to maximize possible future options.
- Identify new technology to optimize Predisposal management
- Identify Spent Fuel Management options

Key dates

- Meeting with NEA HODs – mid of May 2019
- 1st announcement – May
- Creation of the PC – July (TBD)
- Meeting of the PC – July (TBD)
- Issue the workshop programme – July (TBD)
- Selection of speakers – September
- Meeting of the PC – October
- All presentations to be submitted to the RWMD in early February 2020
- Close registration – February 3 2020 (TBD)
- Workshop – 10-13 February 2020 (14 Feb – wrap up session of the PC).

Thank you for your attention



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