



*Euratom Treaty,
signature 1957*



Euratom Joint Programme in Radioactive Waste Management

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from Reflections (2015) to Requirements (2016)

IGD-TP Exchange Forum #7, Cordoba, October 2016



- Reflections (2015), Requirements (2016)
- Strategic Research Agenda: Scope
- The actors
- Joint Programme structure
- Implementation schedule
- Participatory & Implementation mechanisms
- Spending and Funding
- Summary and conclusions

Reflections on Joint Programming (EF London, 10/2015)



They need to results from:

- A common Vision between MSs
- A Common Strategic Research Agenda
- A Deployment Strategy

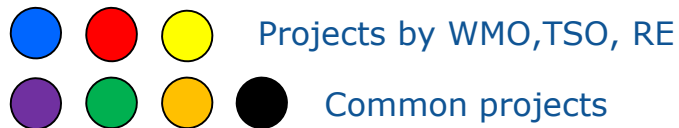
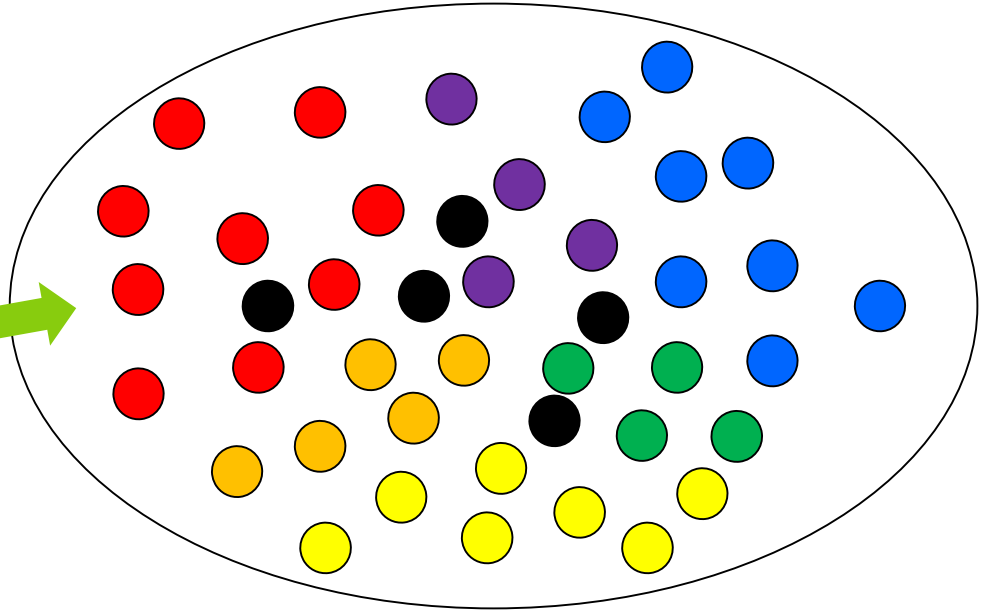


Turned into:

- Scientific /Technical projects



Projects on their own do not constitute a JP



Reflections on Joint Programming (EF London, 10/2015)



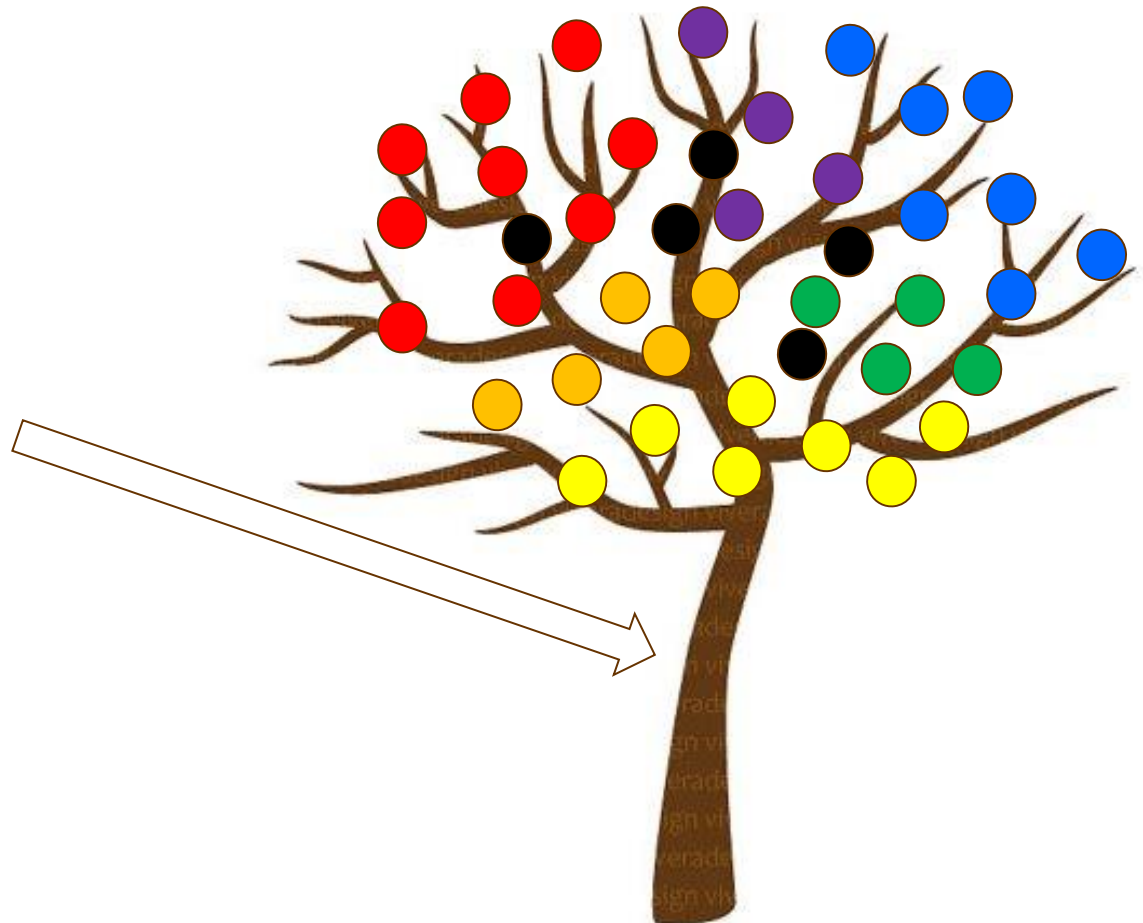
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Turned into:

- Scientific /Technical projects
- Knowledge management activities
- And Strategic & Socio-economic studies



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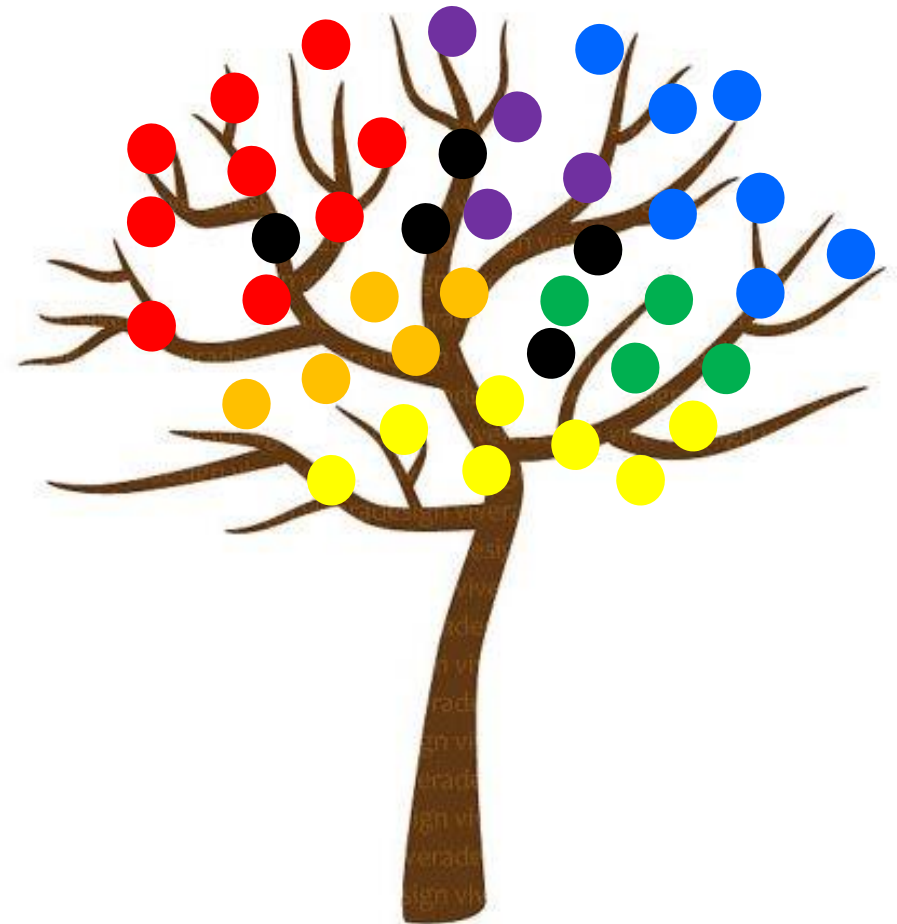
Turned into:

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Decided and administered via:

- Governing rules
- Implementation Mechanisms
- A Management Structure



Requirements from a Joint Programme

(EF Cordoba, 10/2016)



They need to results from:

- A **Common Vision** between MSs
- A **Common Strategic Research Agenda**
- A **Deployment Strategy**



Turned into JP activities:

- **Scientific /Technical projects**
- Knowledge Management
- And Strategic & Socio-Economic studies

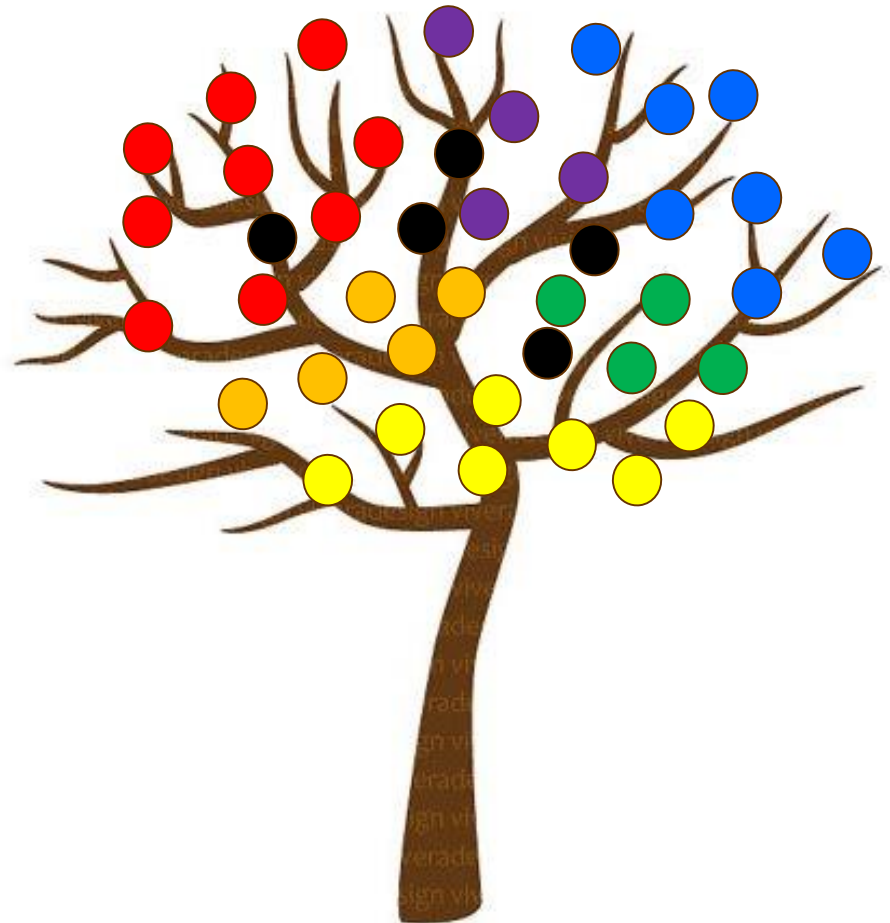


Decided and administered via:

- **Governing rules**
- **Implementation Mechanisms**
- A **Management Structure**



A JOINT PROGRAMME



Scope for the Strategic Research Agenda



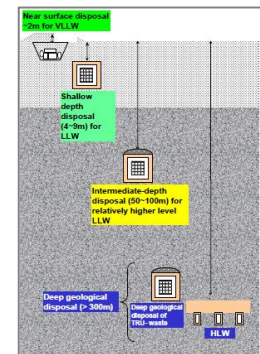
Radioactive Waste Management

Pre-Disposal from collection

- Treatments,
- Characterisation,
- Minimisation,
- Storage,
- Conditioning

To Disposal

- Surface & shallow
- Sub-surface
- Intermediate depth
- Geological



Knowledge Management activities and Strategic & Socio-Economic studies

- Handbooks on the state of science and technologies,
- Guidance documents on R&D aimed at less-advanced and small programmes,
- Strategic and Socio-Economic studies in support of national programmes,
- Training and Dissemination on the JP research & KM activities,

The actors



Who implements research and with what legal link with the JP

Beneficiary

Programme Owners and Programme Managers
= internal activities

+ Affiliated entities

&

Third parties
with a legal link

- Must be set identified in the Grant Agreement, but do not sign the GA

Contributions in kind

- Must be set out in Annex 1
- Free of charge or against payment are eligible costs under eligibility conditions

Subcontracts

- For works (research activities) normally limited part, and goods, services
- Estimated costs and tasks of works must be identified in the budget and Annex 1 and deliverables pre-identified
- Best value for money (best price-quality ratio) and no conflict of interests
- Awarding following transparent and non-discriminatory procedure
 - Beneficiaries governed by public law apply national law on public procurement, generally request for tenders from at least three providers
 - Private beneficiaries not requesting several offers must demonstrate how best value-for-money was ensured

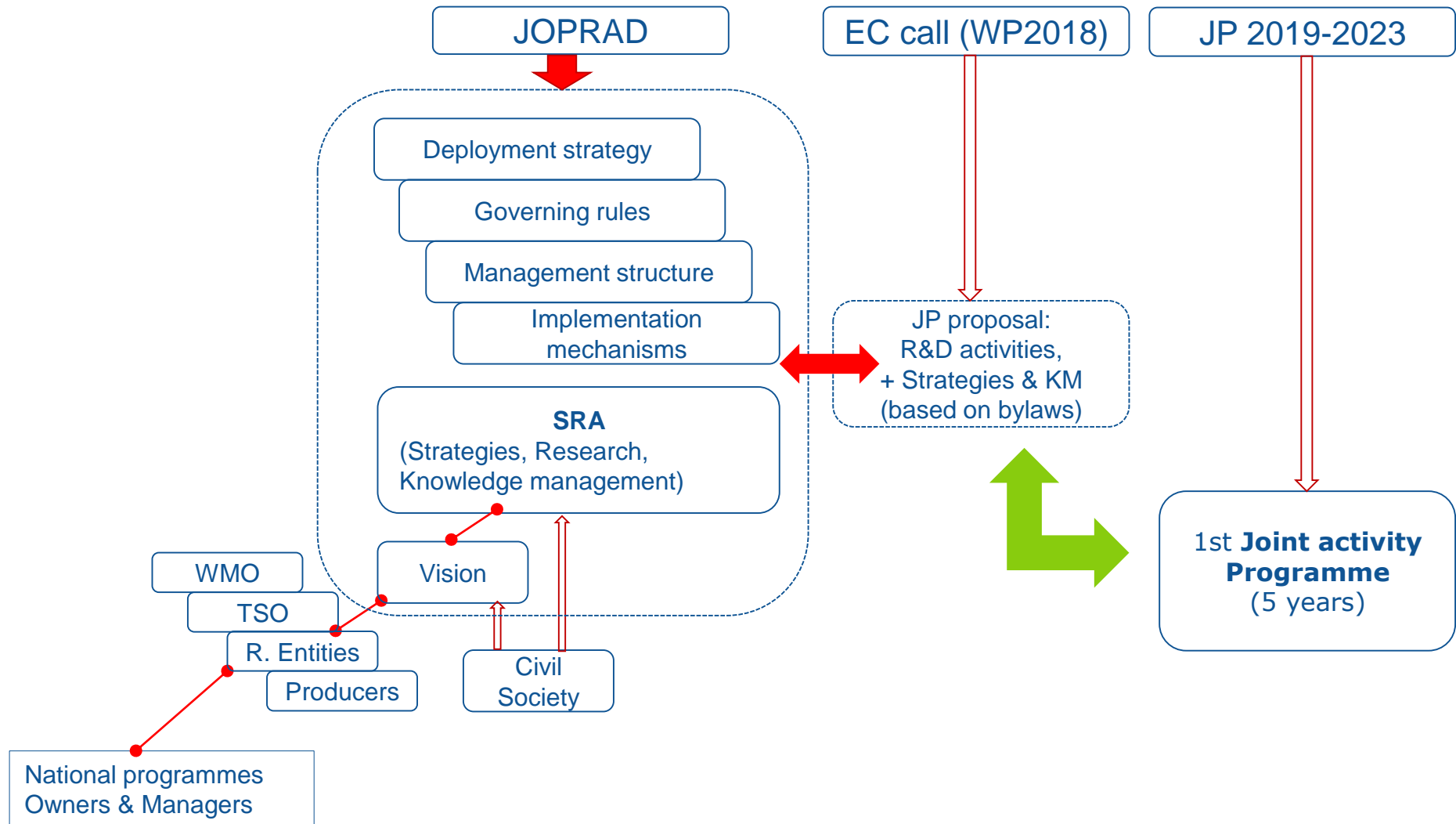
Other third parties

- Cascade funding via call for proposals

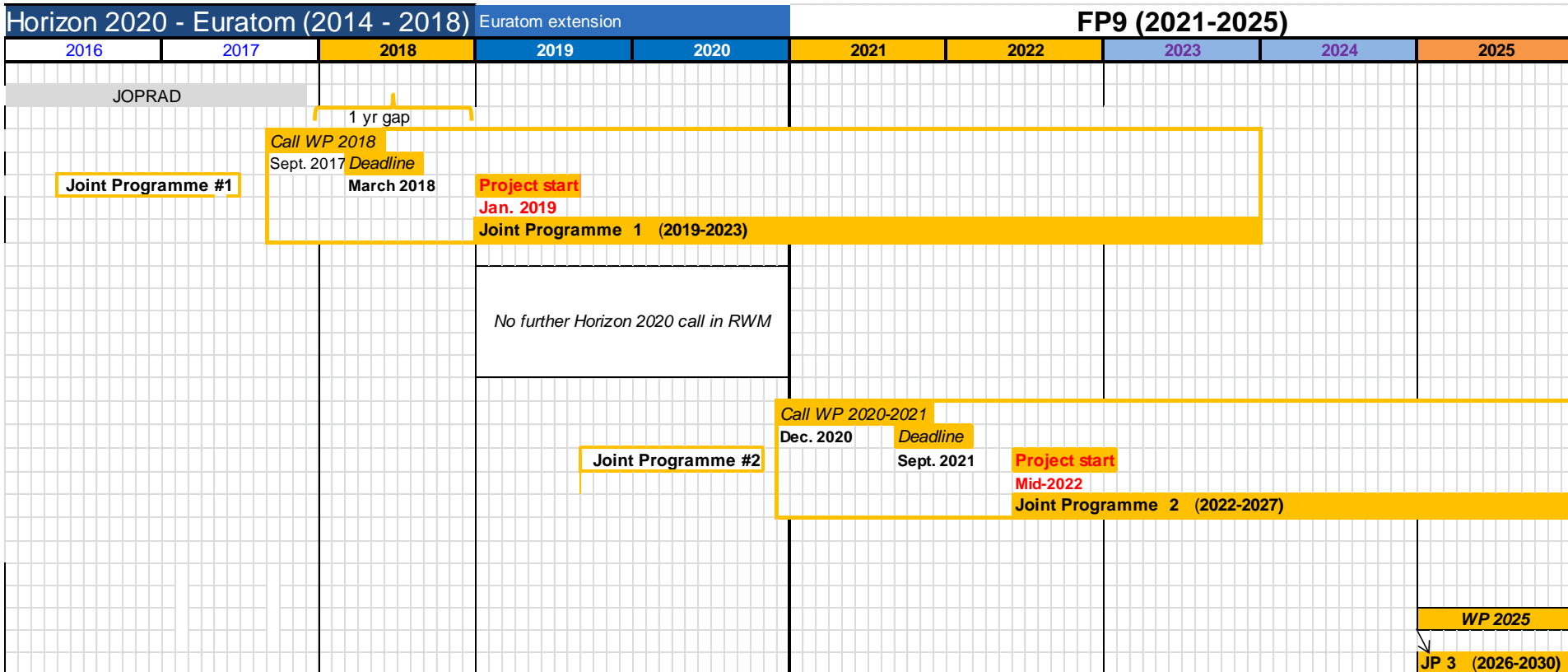
Joint Programme structure



European Joint Programme on Radioactive Waste Management



Deployment strategy (implementation schedule)





JP : need inclusiveness and flexibility

It is not expected that all MSs will be part of the JP from the start and their needs be included :

Hence, complete allocation of budget to activities at the start is not possible:

If it was, the JP would be considered as a closed shop to MS programmes not already in,

And would not allow uptake of new ideas

Possibility to add new beneficiaries and development of topical projects is advocated all along the JP: how

Participatory & Implementation mechanisms



Mechanism for new beneficiaries and research actors each year

Via call for interest to MSs

Inclusion of new beneficiaries via amendment

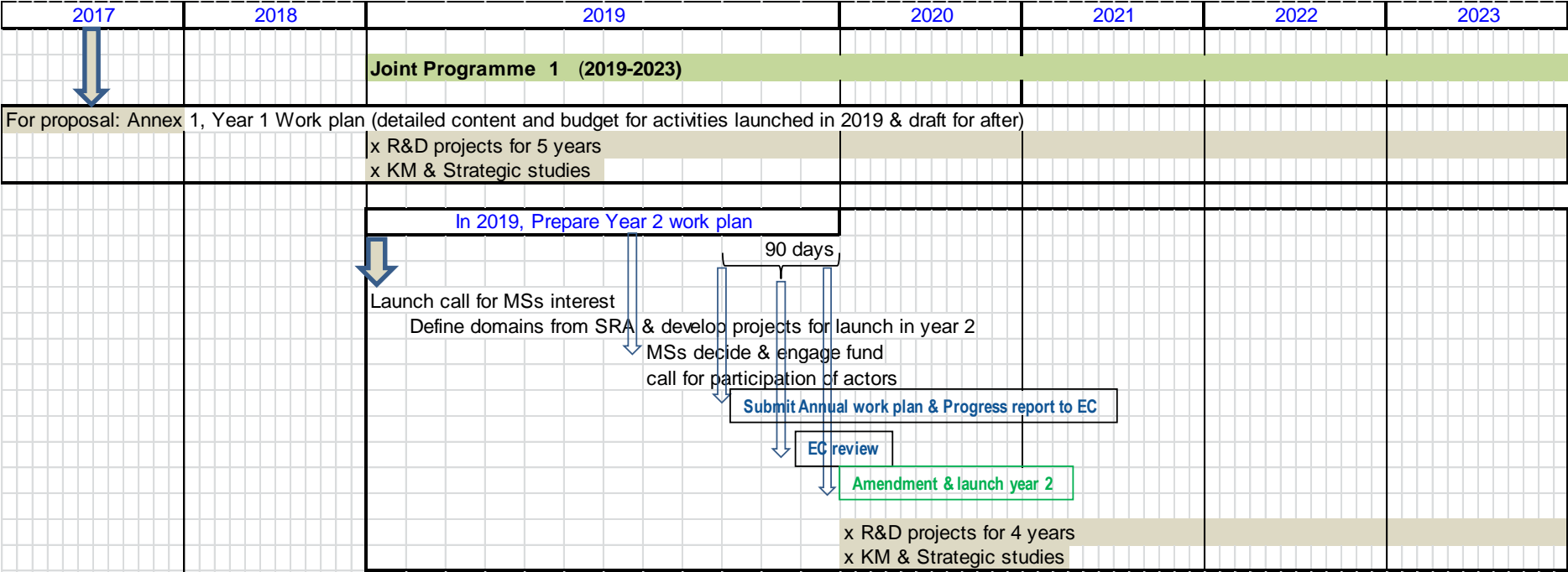
Prioritisation for domains to be addressed each year and for related projects to be developed

The beneficiaries will not do internal activities only i.e. will make use of external capacities

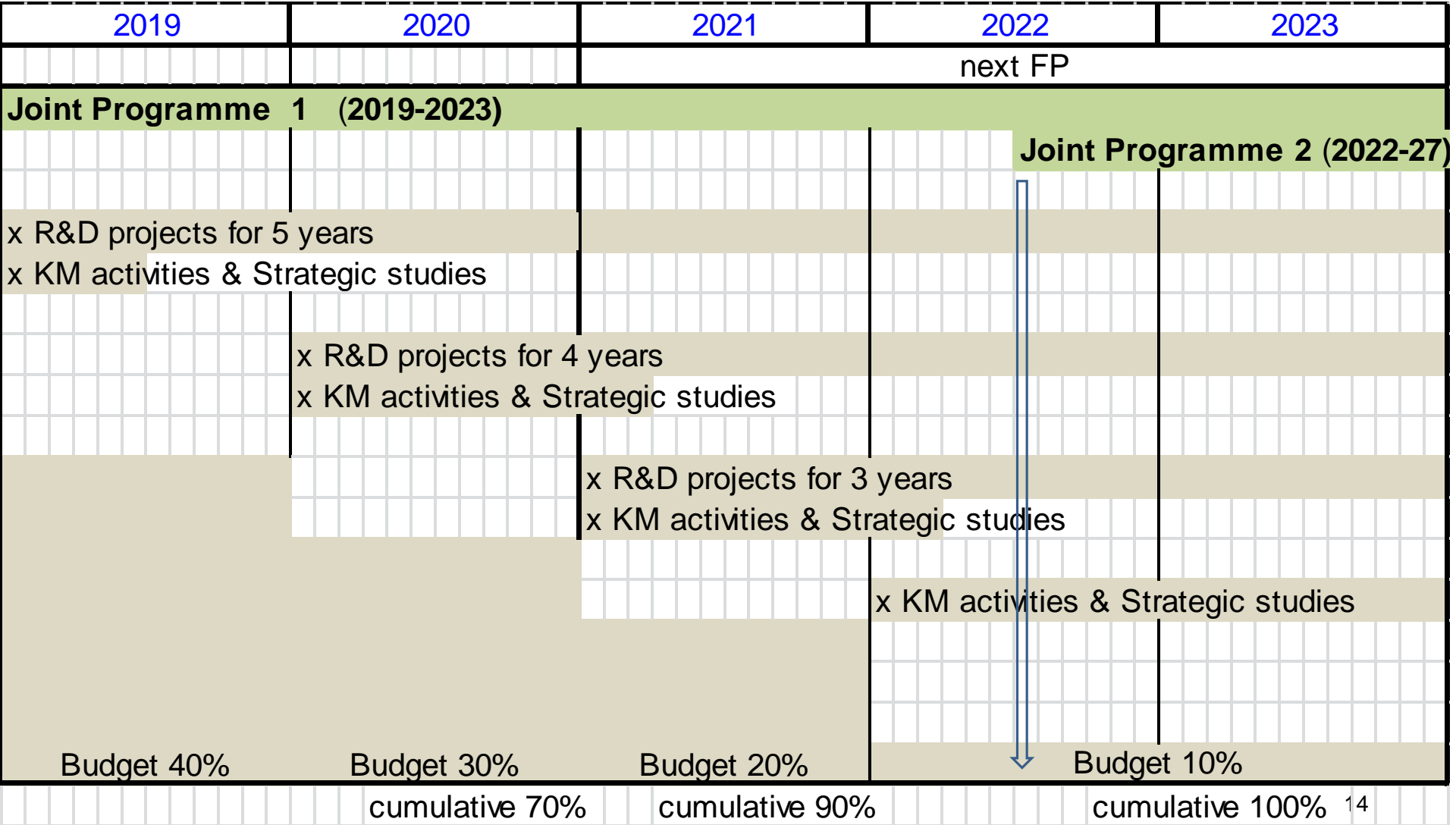
But, open calls for proposals do not seem appropriate in our field

Then, call for participation of research actors is needed with an open selection process to be developed

Participatory & Implementation mechanisms



Spending



JP budget

Horizon 2020 - Euratom (2014 - 2018)					Euratom extension	
WP 2014 / 2015		WP 2016 / 2017		2018	2019	2020
Actual R&I spending ~ € 105.5 million		Planned R&I spending ~ € 125.34 million		ca. € 65 million	Hypothetical R&I budget ~ € 118 million	
		Cumulative ~ € 230.84 million		Cumul. ~ € 295 million	Cumulative ~ € 414 million	
Reactor systems	€ 38,3 M	Reactor systems	€ 63,15 M	101,45		
Radiation Prot.	€ 26,2 M	Radiation Prot.	€ 9,0 M	35,20		
Radioactive WM	€ 16,3 M	Radioactive WM	€ 18,89 M	35,19		
E&T + Socio-eco.	€ 9,4 M	E&T + Socio-eco.	€ 6,0 M	15,40		
Other (JHR + GIF)	€ 15,3 M	InnovFin + GIF	€ 20,3 M	35,60		
		Fission / Fusion	€ 8,0 M	8,00		
Budget % in RWM (15.2%) ~ € 8.80 / year					15.2% for last 3 years ~ € 27.80 million	
					At 20% for last 3 years ~ € 36.60 million	
					At 20% over H2020 (7 yrs) ~ € 47.60 million for last 3 years	



EC contribution: bracket mini 25 – max. 45 € million

EC reimbursement rate 50 to 70 % max., to be decided at the time of the call

CONCERT EJP in radiation protection : EU funding is € 20 million at 70% = € 28.5 total budget,

EURO Fusion : EU = 55% of EUR 857 million budget

Activity funding :

- Funding should be mainly allocated to active tasks (R&D, strategic study, Knowledge management & training) with deliverable products, not to communities (rate to be discussed)
- Direct research activities on most EU- and common- added value
- Exclude high TRL large-scale experiments & demo tests or only if they are common/shared by several programmes or share the generic part
- Resources for coordination, committee & brainstorming meetings if included are activities of the JP (cost shared)



Activity funding :

- Coordination, committee & brainstorming meetings are managed at central level i.e. no separate meetings and segregated funding to the different communities
- Any funding need to be linked to a deliverable product (R&D, strategic study, Knowledge management, training), tasks with only minutes are not activities
- Preparation of activities beyond the JP is not an eligible task
- Involvement of actors in any task should be linked to an identifiable contribution and deliverable
- Delivery of training bespoke courses could be organised making use of university human resources and facilities. These are less costly, (reference to the PETRUS project)
- For the implementation of the JP the administrative and management expenditures should aim at no more than 6 % in line with requirement on the EC Euratom indirect actions of H2020

Summary and conclusions



- ✓ The scope of the SRA need to cover pre-disposal to disposal solutions
- ✓ Pre-disposal is not only that linked to safety of disposal (R&D on waste treatment, reduction and conditioning is of interest to many MSs)
- ✓ Mechanisms to call for interest of MSs not included at the start need to be defined
- ✓ Mechanisms to call for participation of R&D actors not directly beneficiaries need to be defined
- ✓ Waste producers if not part at the start need be invited and included in the early annual work plan revisions of the JP

Summary and conclusions



- ✓ A programme document for a JP proposal need to consist in R&D projects, Strategic studies and Knowledge management activities with annexed individual free-standing documents on the Vision, SRA, Deployment strategy, Governing rules, Management structure and Implementation mechanisms
- ✓ MSs (programme owners & managers) with the EC should aim at launching a JP asap (in 2018) and make it a success while the next Framework Programme (2021-25) will be drafted, to:
 - Demonstrate worthiness of the JP concept in RWM to decision-makers at the EC and in the Member States
 - Ensure sustainability of the Euratom programme
 - Justify a significant budget for the fission programme and RWM

Summary and conclusions



- ✓ The Commission has now set out its expectations and requirements, hopefully clearly enough
- ✓ Clear feedback and engagement from MSs is now needed for the Commission decision to launch a call for a Joint Programme in RWM



*Together
since 1957*



***THANK YOU
and Good Luck***