

# EURAD-2 SECOND WAVE

*RD&D and StSt WP selection process*

EURAD-2 Bureau



Co-funded by the European Union under Grant Agreement n° 101166718



## OUTLINE

- **What is the context of the EURAD-2 2nd wave ?**
- **How is the selection process organised ?**
- **Wrap-up: what are the important decisions & dates to come ?**



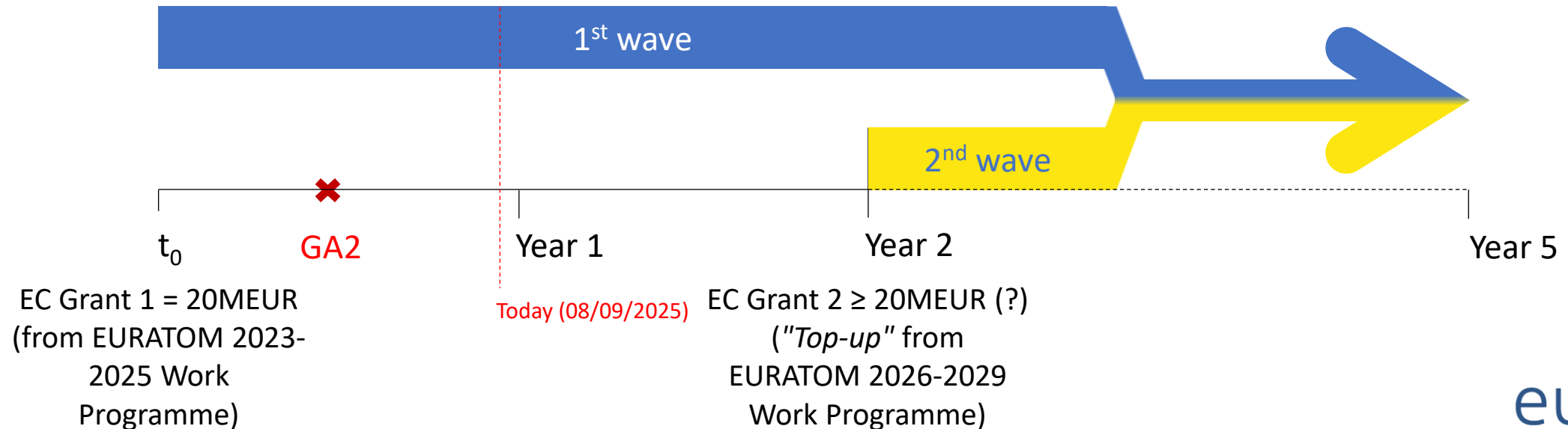
## OUTLINE

- **What is the context of the EURAD-2 2nd wave ?**
- How is the selection process organised ?
- Wrap-up: what are the important decisions & dates to come ?

## CONTEXT: 2 WAVES OF RD&D & STST ACTIVITIES

### EURAD-2 Programme was built considering:

- A 1<sup>st</sup> EC grant of 20MEUR at the beginning of EURAD-2
- + a 2<sup>nd</sup> grant (top-up) of at least 20MEUR after 2 years.
- 2 Waves of R&D and StSt activities.



# CONTEXT: THE 1<sup>ST</sup> WAVE

#	WPs	Time	Funding rate
1	PMO	5y	100%
1	KM	5y	100%
6	StSt	2y	100%
10	RD&D	4-5y	50%

WP number	WP name	Total Cost (EC grant + co-financing)	WMO	TSO	RE
Programme Management Office					
1	Programme Management Office (PMO)	4 M€	◆◆	◆	◆
Knowledge Management					
2	Knowledge Management (KM)	2,7 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
Collaborative RD&D					
5	Innovative characterisation techniques for large volumes (ICARUS)	4,4 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
6	Sustainable treatment and immobilisation of challenging waste (STREAM)	4 M€	◆◆	◆◆	◆◆◆◆◆
7	Long-term performance of waste matrices (L'OPERA)	4 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
8	Release of safety relevant radionuclides from spent nuclear fuel under deep disposal conditions (SAREC)	5 M€	◆◆	◆◆◆◆	◆◆◆◆◆
9	Innovative and new container/canister materials under disposal fields conditions: manufacturing feasibility and improved durability (InCoMand)	5 M€	◆◆◆◆◆	◆◆◆◆	◆◆◆◆◆
10	Hydraulic mechanical chemical evolution of bentonite for barriers optimisation (ANCHORS)	5 M€	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆
12	Radionuclide mobility under perturbed conditions (RAMPEC)	5 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
14	Near-surface disposal optimisation based on knowledge and understanding (SUDOKU)	5 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
16	High fidelity numerical simulations of strongly coupled processes for repository systems and design optimisation with physical models and machine learning (HERMES)	4 M€	◆◆◆◆◆	◆◆◆◆	◆◆◆◆◆
17	Criticality Safety for Final Disposal (CSFD)	2,5 M€	◆◆◆◆◆	◆◆◆◆◆	◆
Strategic Studies					
3	Alternatives RWM strategies (ASTRA)	0,7 M€	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
4	WM for SMRs and future fuels (FORSAFF)	0,9 M€	◆	◆◆◆◆◆	◆◆◆◆◆
11	Impact of climate change on nuclear waste management (CLIMATE)	1 M€	◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
13	HLW repository optimisation including closure (OPTI)	1 M€	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
15	Next generation Digital Twins to support Optimisation, Construction and Operation of surface and subsurface radioactive waste management facilities (DITOCO2030)	0,5 M€	◆◆◆◆◆	◆◆◆◆◆	◆◆◆◆◆
18	Development and Improvement of Quality Assured Thermodynamic Understanding for use in Nuclear Waste Disposal Safety Case (DITUSC)	0,5 M€	◆◆	◆	◆◆◆◆◆

◆ WP Leader  
 ◆ WP Leader as Affiliated Entity  
 ◆ WP Leader as Associated Partner

# CONTEXT: HOW MANY R&D AND STST WPS IN THE 2 ND WAVE ?

If Top-up = 20MEUR

In €			
<b>RD&amp;D WPs</b>	Not allocated direct costs	7 215 526	≈ <b>3 new R&amp;D WP</b>
	Not allocated indirect costs	1 803 882	
	Not allocated eligible costs	9 019 408	
	<b>Not allocated EC contribution</b>	<b>4 509 704</b>	
<b>StSt WPs</b>	Not allocated direct costs	819 482	≈ <b>1 new StSt WP</b>
	Not allocated indirect costs	204 870	
	Not allocated eligible costs	1 024 352	
	<b>Not allocated EC contribution</b>	<b>1 024 352</b>	
<b>Total (StSt + RD&amp;D WPs)</b>	Not allocated direct costs	8 035 008	
	Not allocated indirect costs	2 008 752	
	Not allocated eligible costs	10 043 760	
	<b>Not allocated EC contribution</b>	<b>5 534 056</b>	

If Top-up = 30MEUR

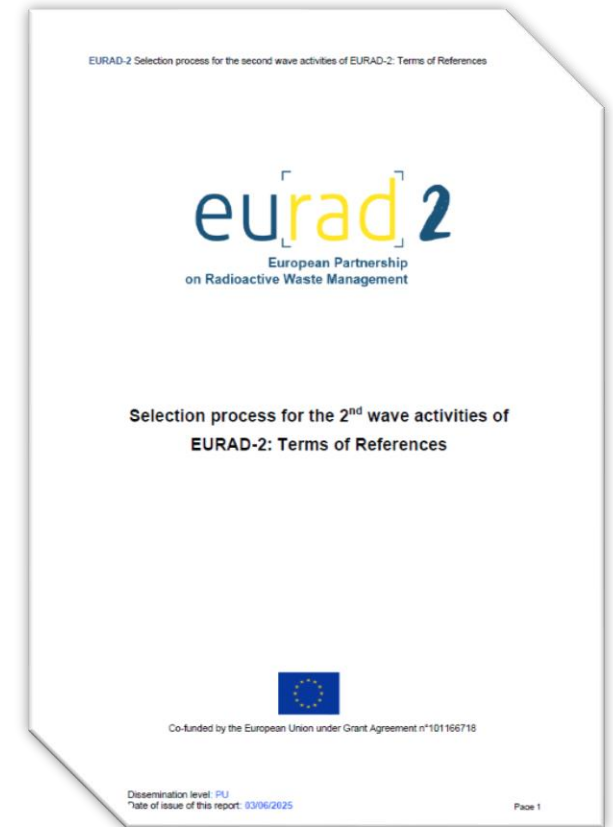
≈ **7 new R&D WP**

≈ **3 new StSt WP**

***And all WPs from 1st wave will continue as planned !***

## CONTEXT: NEED OF A SELECTION PROCESS

- **Development of a selection process which is:**
  - Fair for the different categories of EURAD actors;
  - Steered by the EURAD Vision, Roadmap and SRA;
  - Shared and approved by the EURAD community;
  - Aligned with the context for the 2nd wave (possible number of WPs...).
- **This process was developed by the Bureau, introduced at GA2 and published on 3/06/2025.**





## OUTLINE

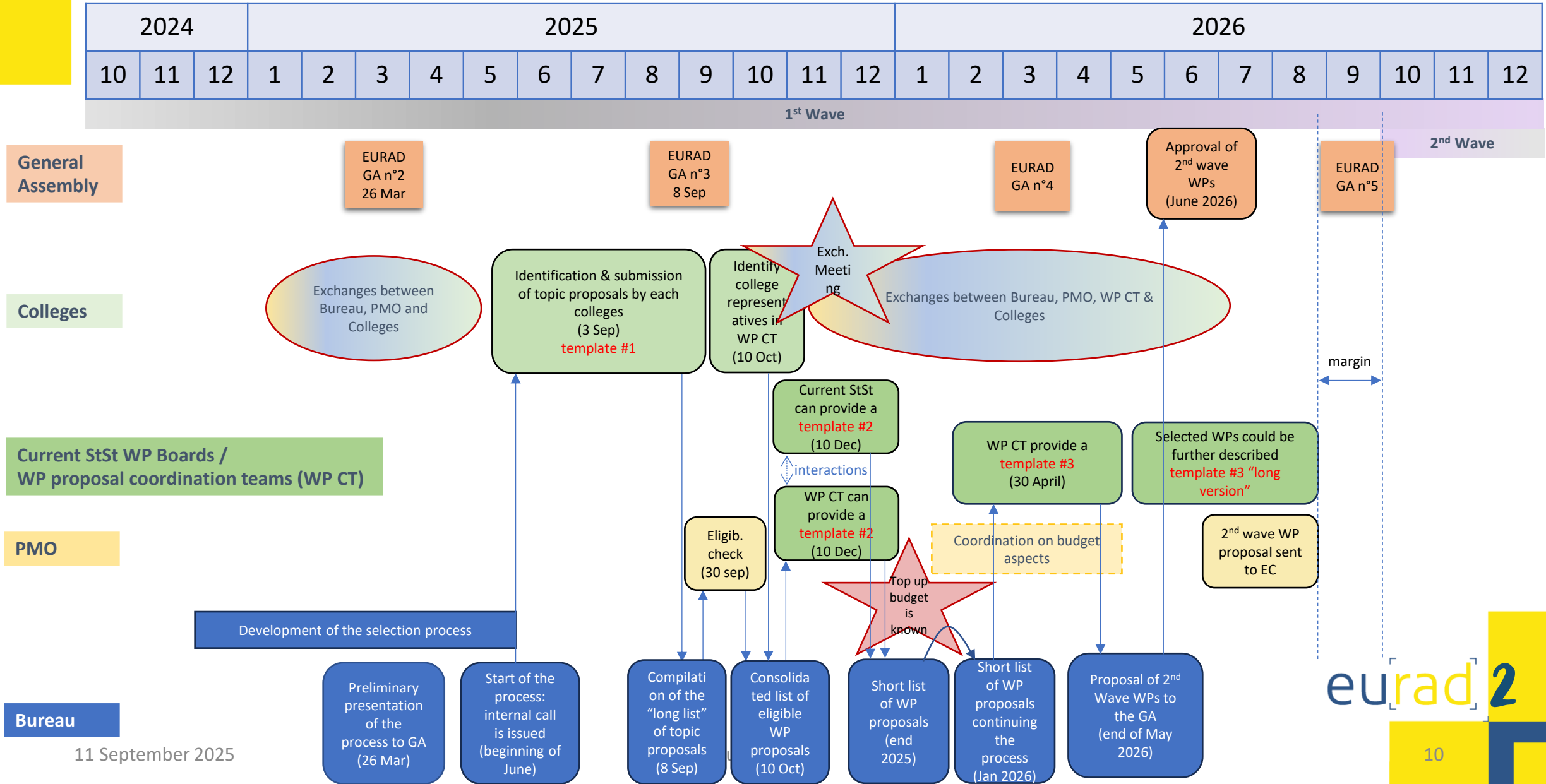
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- **How is the selection process organised ?**
- Wrap-up: what are the important decisions & dates to come ?



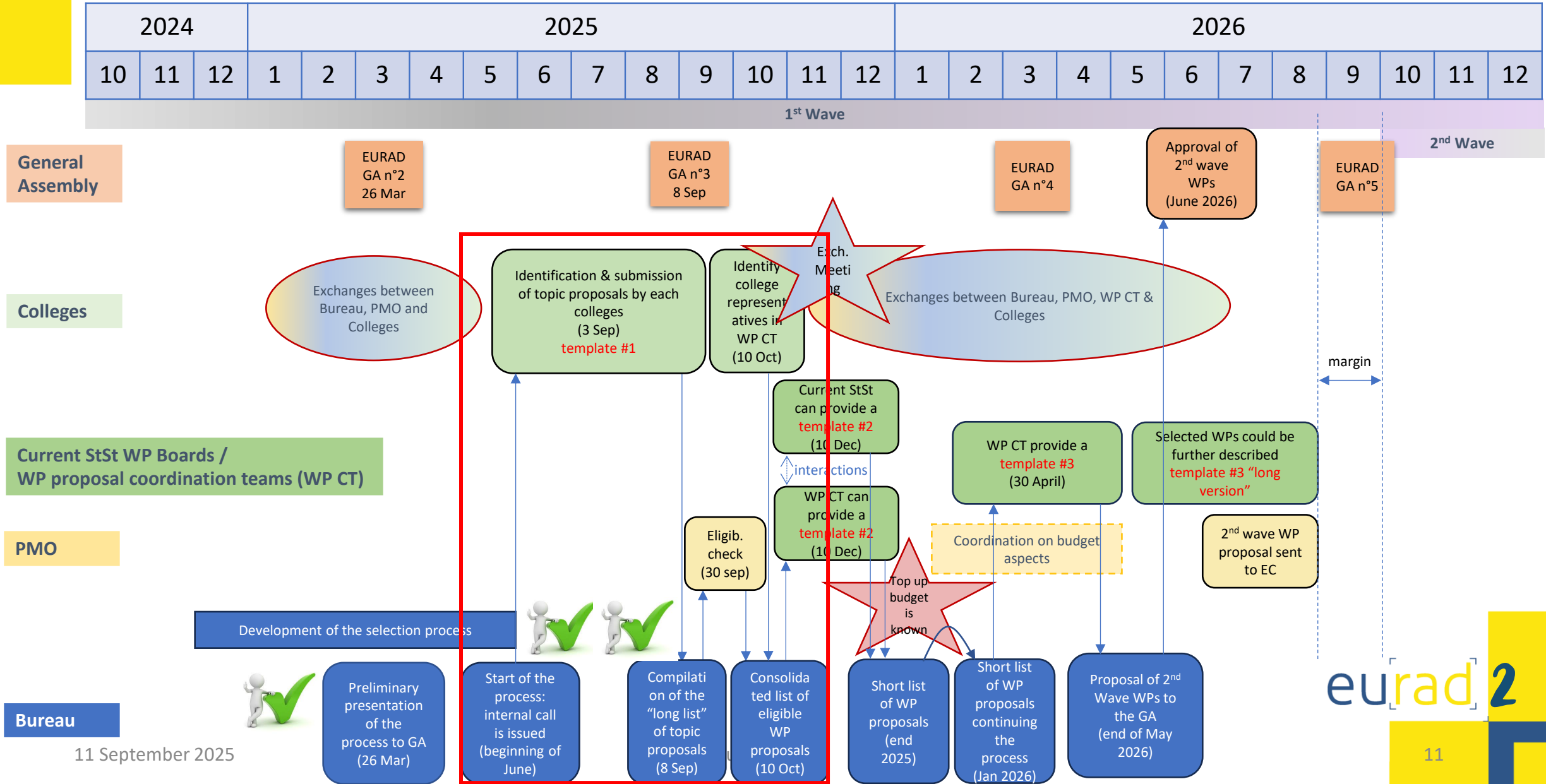
## SELECTION PROCESS: BASIC PRINCIPLES

- **3-step development process for new WPs activities**
  - Template #1 (3/09/2025, proposals of topics for new WPs - non-consolidated between colleges)
  - Template #2 (10/12/2025, WP proposals consolidated between colleges)
  - Template #3 (30/04/2026, final WP proposals consolidated between the colleges)
- **Current StSt are allowed to propose R&D WPs** connected to their scope of activities **directly in a template #2.**
- **The proposal of all other 2<sup>nd</sup> wave activities** have to go via a **template #1.**
- **Proposal meeting a joint interest** from the Colleges will then be further described in a **template #2.**
- Selection of the **template #2 WP proposals allowed to move to template #3** will notably **depend on the top-up budget.** So we need "enough" templates #2 to manage the uncertainty about the top-up budget (20MEUR, or 30, or... ?).

# SELECTION PROCESS: OVERVIEW



# SELECTION PROCESS: OVERVIEW



11 September 2025



## SELECTION PROCESS: UNTIL THE 3RD OF SEPTEMBER 2025

- **To do by the Colleges:**

- Colleges organise themselves to identify the topics for new activities they want to include in template #1.
- Colleges fill in template #1 and submit them to the Bureau.
- Maximum 4 R&D templates #1 and 2 StSt templates #1 per College.

- **Important remarks:**

- 1st wave StSt WPs wishing to propose 2nd wave new StSt (e.g. in an additional task in their WPs) or RD&D (not connected with their scope) activities shall provide a template #1 via a College.
- Similarly, 1st wave RD&D WPs wishing to propose 2nd wave new StSt or RD&D activities (e.g. in an additional task in their WPs) shall provide a template #1 via a College.
- **Eligibility criteria:**
  - Be consistent with EURAD Vision, SRA and Roadmap;
  - Be linked to EURAD SRA topics and associated drivers;
  - Avoid duplication of existing international activities or repetition of what has been done in the past (at national or European levels);
  - Do not cover topics that are currently being addressed by other ongoing EC projects (both within and outside of EURAD-2);
  - Respect the selection process Terms of References.

## RECEIVED PROPOSALS (= LONG LIST OF PROPOSALS)

	WMO	TSO	RE	Proposal
R&D	X			Intelligence (AI) / machine learning for analysis of site characterisation data and other large datasets
	X			MOdelling of GAs behaviour and migration at the REpository scale storage/disposal
	X			Detection and Evaluation of Electrochemical and pH Conditions for Corrosion and HEterogeneous Monitoring
	X			Experimental investigation of nuclide composition in SF for post-closure criticality safety (expansion of WP-17 CSFD)
		X		Towards robust decision-making processes in RWM through participatory data analysis and co-creative development of scenarios
		X		Assessment of the long-term evolution and safety of bituminous radioactive waste (SAFEbit)
		X		Repository site flow and transport models
		X		Backfilling materials for disposal: ensuring long-term stability and performance
			X	Materials for enhancing passive safety and robustness of Engineered Barrier Systems
			X	Development of robust and versatile conditioning matrices for challenging waste streams
			X	Self-Powered Monitoring Systems for Radioactive Waste Repositories
StSt			X	Developing site screening strategies and procedures for integrated site descriptive models
	X			Operational scientific data management
	X			Toxic substances/ chemicals
		X		Guidance for European (TE)NORM & DU enabled strategies for integrated stewardship
		X		Investigating analogues for trusted understanding of repository assessment
			X	Natural Analogues: Strategic review of holistic utilisation of NAs in radioactive waste disposal (NATSTRAT)
		X	THMC Host Rocks: Assessing the end user gaps and needs on THMC(B) properties of HR – defining a common strategy	

Note: extra proposal from WMO College about graphite waste management. Eligibility to be discussed by the Bureau / PMO.

## SELECTION PROCESS: 3RD OF SEPTEMBER TO 10TH OF OCTOBER 2025

- **To do by the Bureau and PMO:**
  - Bureau will communicate on 8th of September the list of templates #1 received from the Colleges ("long list of topic proposals").
  - PMO will evaluate the eligibility of the proposals by the 30th of September.
  - The Bureau, in close liaison with the Colleges and contact persons of the template #1, will consolidate the received eligible topics in possible WPs.
  - This list of possible WPs, as well as the identification of WP coordination teams (1 representative by College) for each of the WPs, have to be available on the 10th of October 2025.
- **Important remarks:**
  - For defining the consolidated list of eligible WP proposals, the initial College topic proposals will not be modified, but some proposals could be merged together for instance if they cover similar topics.
  - The Bureau will not "force" the merge of proposals but will play the role of a facilitator and let the Colleges (in connection with the organisations supporting the proposals) decide if such a merge is relevant from scientific point of view.

# SELECTION PROCESS: 3RD OF SEPTEMBER TO 10TH OF OCTOBER 2025

*For illustration only*



Eligibility check,  
Consolidation

Some TSO proposals

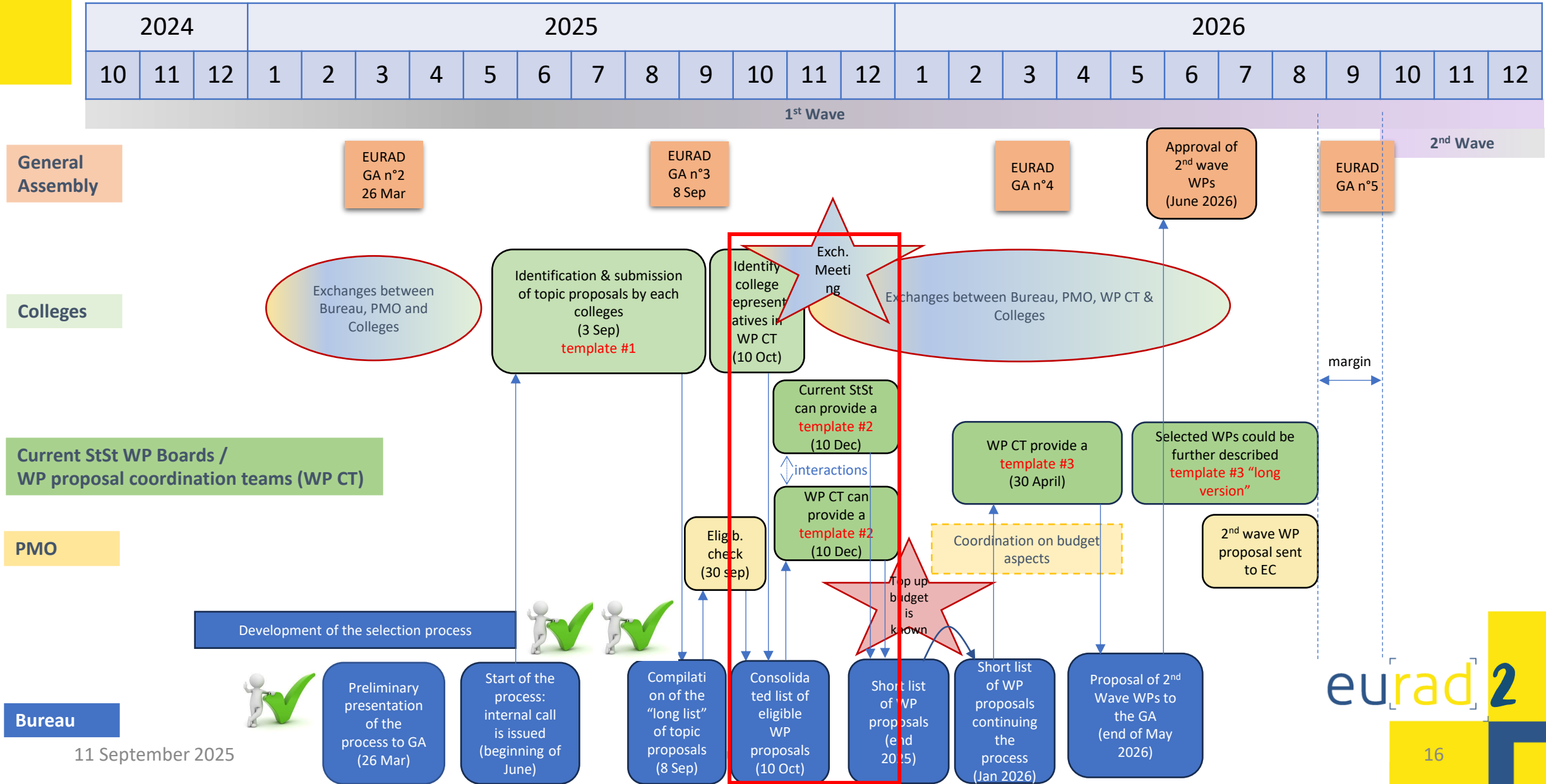
Some WMO proposals

Some RE proposals



*Each should have a WP CT (3 representative by College).  
If not possible to find a WP CT:  
proposal cannot go further.*

# SELECTION PROCESS: OVERVIEW





## SELECTION PROCESS: 10TH OF OCTOBER 2025 TO 10TH OF DECEMBER 2025

- **To do by the Colleges & WPCT:**
  - Each WPCT is responsible to evaluate if a joint WP proposal can be developed.
  - The Colleges need to support / liaise with the WPCT.
  - If the Colleges conclude that a WP proposal does not meet enough joint interest, the WP proposal will be dropped.
  - For the proposals meeting a joint interest from the 3 Colleges, a template #2 is expected on 10th of December 2025.
- **Important remarks:**
  - **Exchange meetings will be organised online end of October** to promote discussions between Colleges (dates will be announced soon, registration needed).
  - A **physical meeting will be organised on 26/11/2025** afternoon in Prague (aside of the IGD-TP Exchange Forum). Registration needed: <https://igdtp.eu/igd-tp-exchange-forum-2025-registration-form/>

## The 10<sup>th</sup> IGD-TP Exchange Forum + EURAD2 event

The 10th IGD-TP Exchange Forum:

### R&D challenges from siting to industrialisation

We are delighted to announce that the IGD-TP will hold its 10th international Exchange Forum on research and development (R&D) challenges in geological disposal programmes for radioactive waste. Hosted by SÚRAO in November 2025, the event is open to all IGD-TP members and stakeholders interested in geological disposal of radioactive waste

Our 10th Exchange Forum provides an excellent opportunity to:

- Discuss new issues and the status of WMO programmes.
- Learn about WMO emerging and ongoing R&D priorities.
- Explore the potential for collaborative research with IGD-TP members and the broader radioactive waste community.
- Present a poster on your work in the field of geological disposal and take advantage of great networking opportunities.
- Visit research and disposal facilities in the Czech Republic.
- Experience the wonderful city of Prague.



Registration  
will open via  
the IGD-TP  
website from  
1 June 2025.

Prague

25-27 November 2025

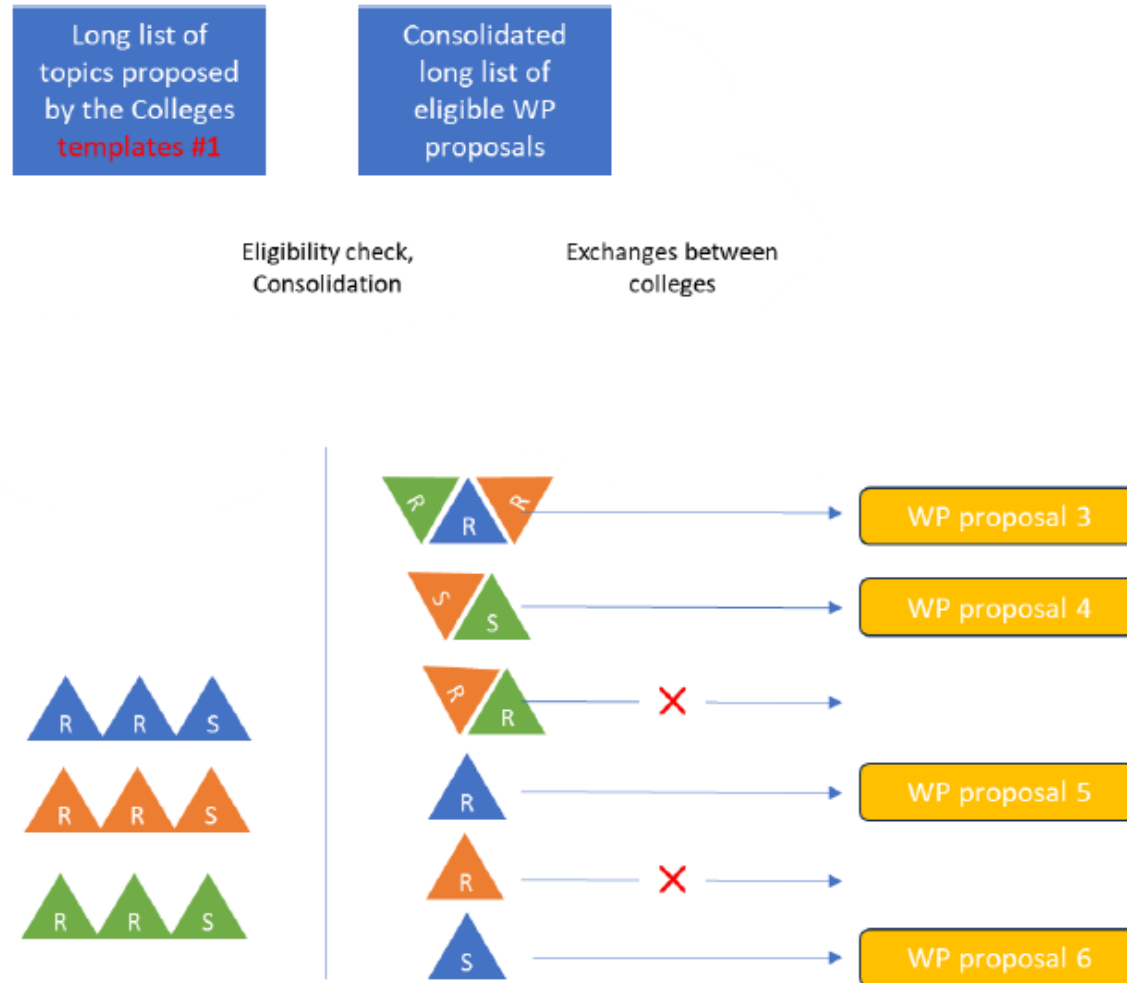
- ▶ Venue: Prague (Czech Republic)
- ▶ Date: 25 – 27 November 2025
- ▶ Maximum capacity: 120 persons
- ▶ Registered persons till now: 80
- ▶ **Deadline for registration extended to 12 October 2025**

REGISTER at IGD-TP webpage  
[www.igdtp.eu](http://www.igdtp.eu)



# SELECTION PROCESS: 10TH OF OCTOBER 2025 TO 10TH OF DECEMBER 2025

*For illustration only*

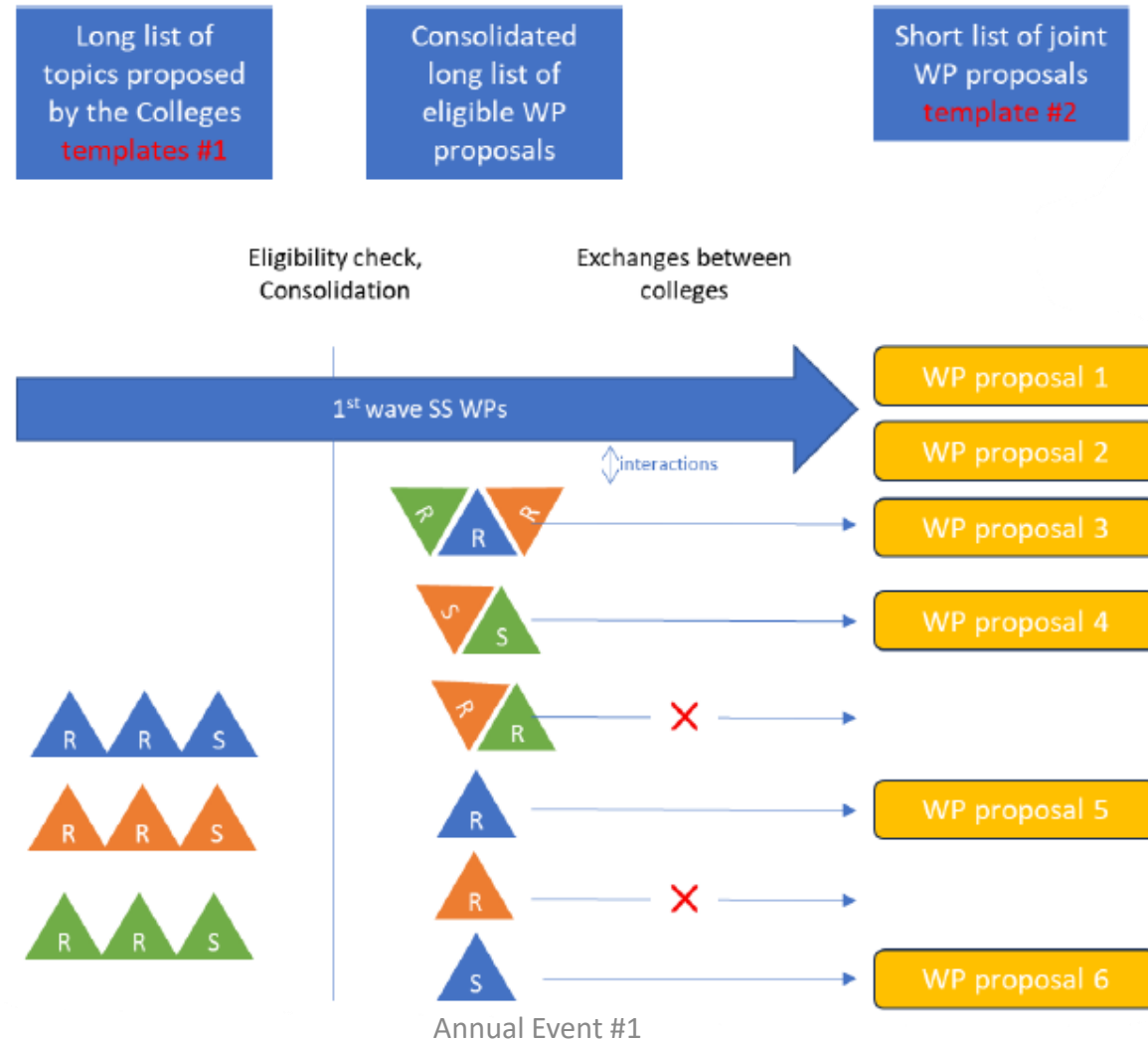


## SELECTION PROCESS: CURRENT STST TO MAKE PROPOSALS OF R&D WPS BY 10/12/2025

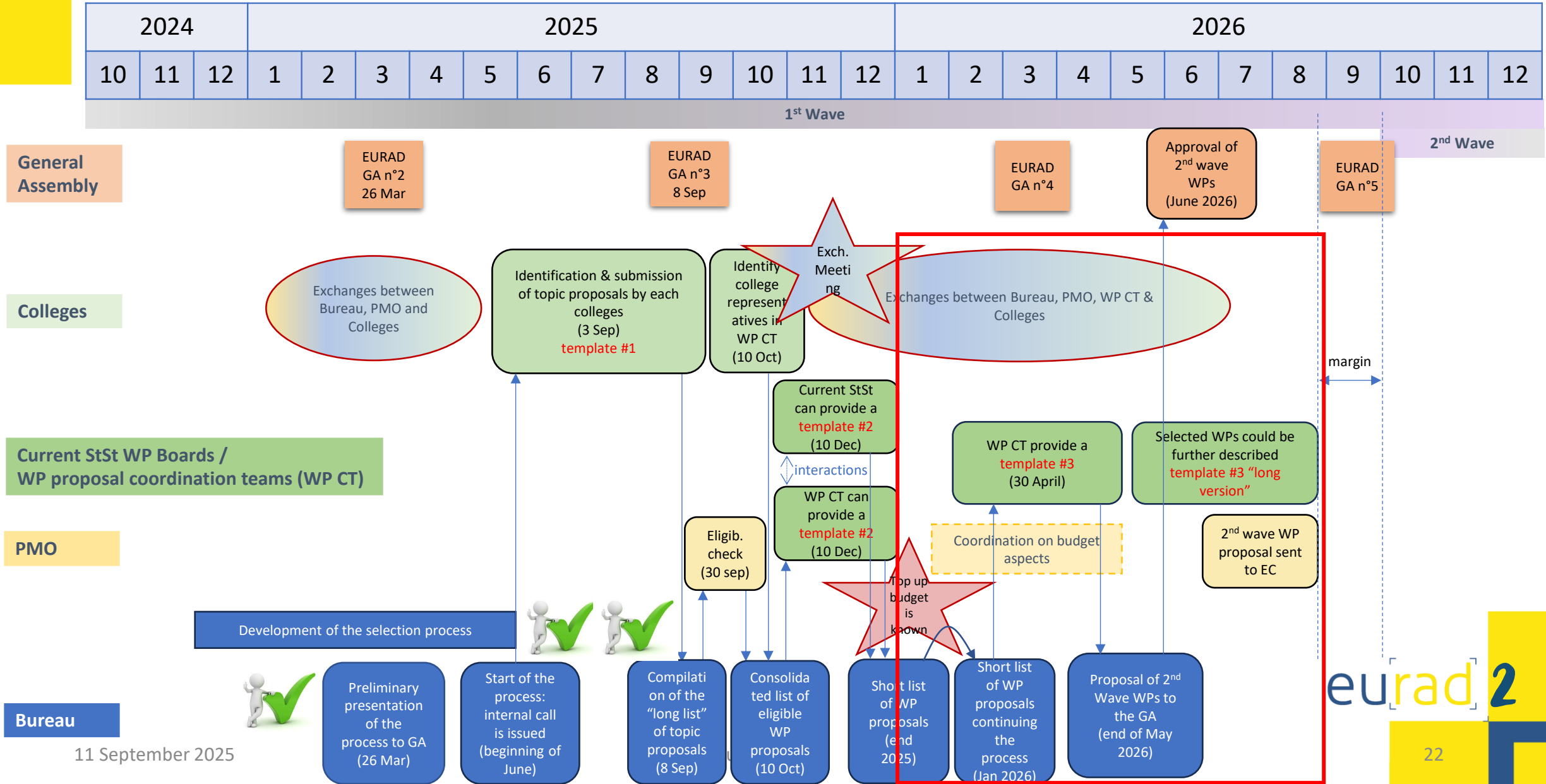
- **To do by 1st wave StSt WPs:**
  - The 1st wave StSt WPs are invited to directly propose 2nd wave RD&D WPs in a template #2 (see Appendix B) by 10 December 2025. This mechanism allows the StSt WP to progress in their work programme and to identify needs of new activities until Month 14, before submitting 2nd wave WP proposals.
- **Important remarks:**
  - In this mechanism filling and submitting a template #1 is not required.
  - 1st wave StSt WPs wishing to propose 2nd wave new StSt (e.g. in an additional task in their WPs) or RD&D (not connected with their scope) activities shall provide a template #1 via the Colleges.
  - **The StSt WP Boards must liaise with their corresponding WP participants and the Colleges before proposing a template #2, to have consensus on the RD&D WP scope and need.**
  - 1st wave StSt will also be consulted in the period October – December 2025 to detect and, if found appropriate, integrate 1st wave StSt recommendations in the WP proposals coming from proposals formulated through the Colleges template #1.

# SELECTION PROCESS: 10TH OF OCTOBER 2025 TO 10TH OF DECEMBER 2025

*For illustration only*



# SELECTION PROCESS: OVERVIEW



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## SELECTION PROCESS: JANUARY 2026

- According to EC planning, we should know how-much top-up budget is available.
- The templates #2 will be ranked by the Bureau, in close liaison with the Colleges.
- 3 main criteria will be followed:
  - High common interest from the three Colleges toward a proposal that plugs a gap identified in the SRA relative to fulfilment of the EURAD Vision,
  - Joint drivers expressed in the SRA for the topics are covered,
  - To what extent does the proposal contribute to EURAD collaborative RD&D / Strategic Studies objectives (as described in EURAD founding documents).
- Considering the top-up budget and the abovementioned ranking, a certain number of WP proposals will be allowed to moved towards template #3.
- the Bureau estimates a **maximum EC contribution of 1.5M€ (3M€ of eligible costs) for a 3-year 2nd wave RD&D WP and 0.75M€ (0.75M€ of eligible costs) for a 2-year 2nd wave StSt WP** (considering that a 2nd wave StSt WP would only last 2 years to allow capitalising its results in a possible proposal for a third EURAD implementation phase).
- **If the top-up = 30MEUR, we anticipate ≈ 7 R&D WPs and 3 StSt.**

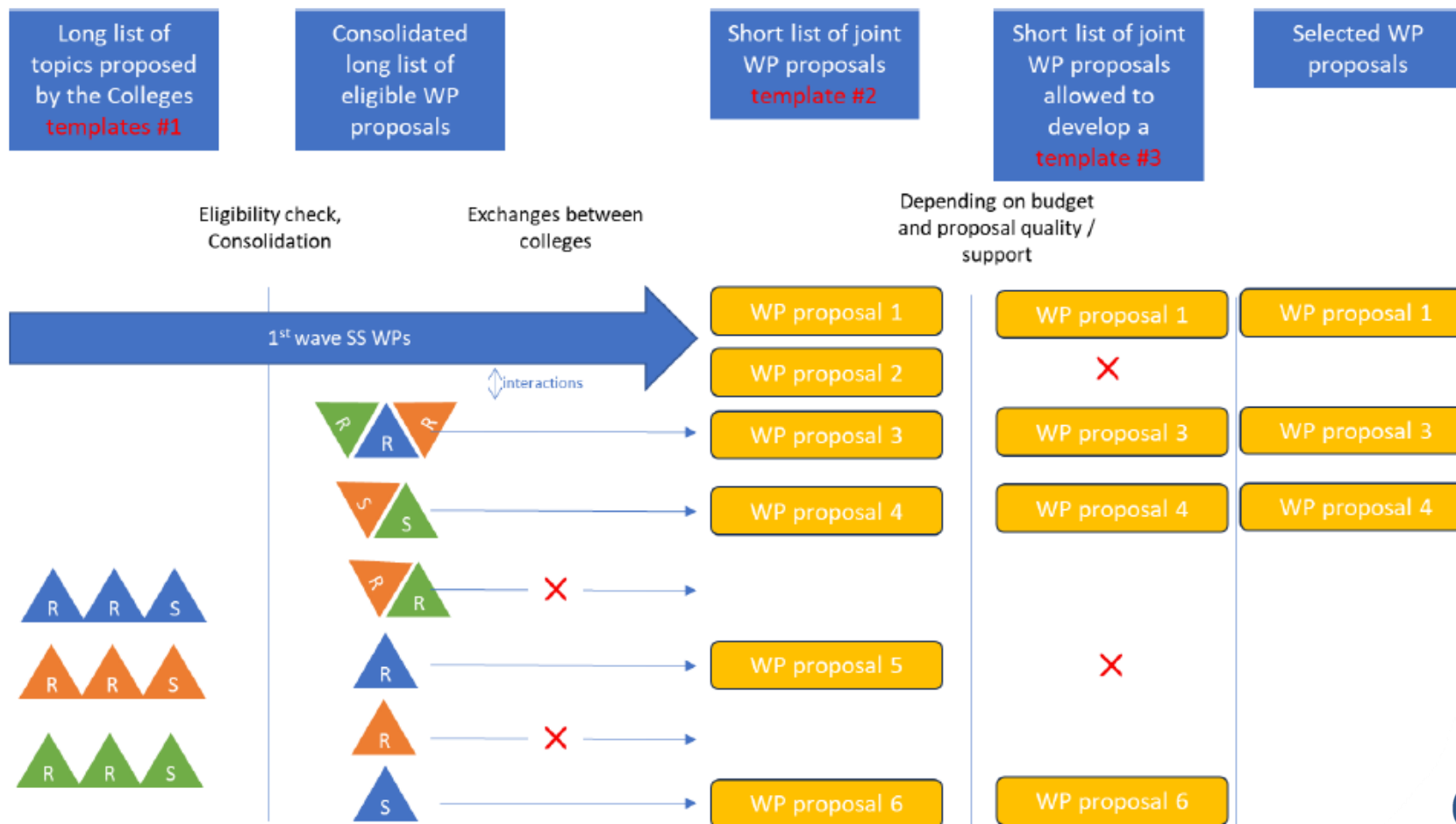
## SELECTION PROCESS: FEBRUARY TO JUNE 2026

- **Template #3 development: until the 30th of April 2026.**
- **Expected level of detail = what is needed to answer to the EC call for the second grant (top-up).**
- **Approval of the 2nd wave new WPs by the EURAD-2 GA in June 2026.**



# SELECTION PROCESS: FEBRUARY TO JUNE 2026

*For illustration only*



## SELECTION PROCESS: JUNE 2026 TO END OF AUGUST 2026

- PMO prepares the 2nd wave proposal to be submitted to the EC. It will be submitted by the end of August 2026.
- The WP Boards will further develop their WP descriptions, to be ready for a kick-off beginning of October 2026.



## OUTLINE

- What is the context of the EURAD-2 2nd wave ?
- How is the selection process organised ?
- **Wrap-up: what are the important decisions & dates to come ?**

## OVERVIEW KEY DATES & DECISIONS

- **Organisations & Colleges:** Discussion and selection of topics within each college – ongoing
- **Colleges:** Submission of topics for WP proposals by each College – **03/09/2025**
- **Colleges:** Identification of representatives in WP CT – **10/10/2025**
- **Bureau:** Definition of consolidated list of WP proposals & WP CTs – **15/10/2025**
- Three online half day exchange meetings about WP proposals – **27/10, 29/10, 31/10/2025**
- In person exchange meeting on remaining questions – **26/11/2025, Prague**
- **WP CT, StSt WP boards:** submission of template#2 – **10/12/2025**
- **Bureau, Colleges:** short list of WP proposals to be further developed – **est. 01/2026**
- **WP CTs:** provision of WP proposals template#3 – **end 04/2026**
- **GA:** approval as 2nd wave WPs and submission to EC – **06/2026**

### Selection of topics



### Selection and development of WP proposals

### Finalisation and submission of the WP proposals

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## TWO OPTIONS TO PROVIDE QUESTIONS

Send your questions either **via mail** to the coordinator [secretariat@ejp-eurad.eu](mailto:secretariat@ejp-eurad.eu)

**Or**

use the **2nd wave preparation survey** that will be published after this information session:

[https://ec.europa.eu/eusurvey/runner/EURAD2\\_2nd\\_wave\\_process](https://ec.europa.eu/eusurvey/runner/EURAD2_2nd_wave_process)



Email

Multiple Choice Question

- WMO
- TSO
- RE
- Regulatory body
- other

If other, please specify

Table

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# QUESTIONS ?

