



SEAKNOT

WP4 KNOS - Knowledge Spreading Overview

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SEAKNOT First Open Workshop

2nd October 2025



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WP4 KNOS Main Objectives

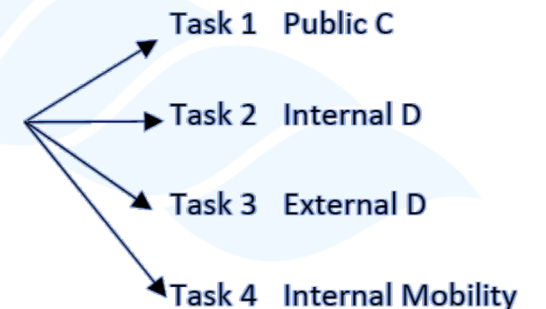
1. **Communication, Dissemination and Exploitation activities for the entire project**, with a focus on transferring SEAKNOT technical outcomes to the international scientific community, primarily through two European Review Meeting on Severe Accident Research ERMSAR (2024 and 2026), but also towards as many stakeholders as possible, and to a general public
2. **Enhancing background & skills of young generations** through targeted activities: two Severe Accident Phenomenology (SAP) short Courses and the new SA Summer Camp (SASCamp) initiative, together with the internal mobility program, are the bricks of the ***Knowledge and Knowhow Transfer (K2T)*** strategy, as the SA Textbook, which compiles updated knowledge from the three SEAKNOT technical WPs



WP4 KNOS Synthesis

KNOS activities are structured in 4 sub-WPs:

- 4.1 SAP (CEA) organization of 2 editions (2023 and 2025) of the *Severe Accident Phenomenology SAP short course* and of the *1st SA Summer Camp SASCamp*
- 4.2 ERMSAR (KIT) organization of 2 editions (2024 & 2026) of the *European Review Meeting on Severe Accident Research ERMSAR*
- 4.3 SA Textbook (JSI) new edition of the SARNET **Textbook** “*Nuclear Safety in Light Water Reactors – Severe Accident Phenomenology*”
- 4.4 C&D (UNIFI, LGI) **Communication and Dissemination activities**, including internal mobility for MSc/PhD students and new researchers in SA area



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Where we are with KNOS

- ❑ **WP 4.1 (CEA):** Successful **SAP short courses** in 2023 (UPM) with 50 attendees and in 2025 (FZJ) with 54 participants, **1st SASCamp 2025** at FZJ with 21 participants. *For the 3 events the global evaluation by participants was very high.*
- ❑ **WP 4.2 (KIT):** **ERMSAR 2024** (KTH), ANE VSI, Open Proceedings, Summary report endorsed by CSNI; **ERMSAR 2026** (CIEMAT) in Madrid on 18-22 May 2026, call for abstract close (*about 160 contributions received*)
- ❑ **WP 4.3 (JSI):** Identified **SA Textbook** chapters to be reviewed and contributors; some reviews already ongoing (i.e., chapter 5 "*FP Release and Transport*")



subWP4.1: SAP 2025 on June 23 - 27

- ❖ Proven program covers main SA phenomenologies
- ❖ Visit of FZJ installations
- ❖ "Nuclear Industry and Research in Germany" by Framatome GmbH
- ❖ «Challenges for SA Research in SMRs» Panel

Monday, June 23	Tuesday, June 24	Wednesday, June 25	Thursday, June 26	Friday, June 27
8:00-8:45 Bus transfer	8:00-8:45 Bus transfer	8:00-8:45 Bus transfer	8:00-8:45 Bus transfer	8:00-8:45 Bus transfer
8:30-9:30 Registration	9:00-10:00 5. Early In-Vessel Phase-Part 1 Florian Fichot (ASNR)	9:00-10:00 9. Steam Explosions -Part 2 Pascal Piluso (CEA)	9:00-10:00 13. SAMG Matthias Braun(Framatome GmbH)	9:00-10:00 18. Decommissioning Christophe Journeau (CEA)
9:30-10:00 Welcome	10:00-11:00 5. Early In-Vessel Phase -Part 2 Florian Fichot (ASNR)	10:00-11:00 10. Ex-Vessel Phase - Part 1 Christophe Journeau (CEA)	10:00-11:00 12. SA analysis: Part2. Uncertainty Luis Herranz (CIEMAT)	10:00-11:00 19. New design Feature-Gen 3-Part 1 Manfred Fischer
10:00-11:00 1. Severe Accidents in NPP Safety Luis Herranz (CIEMAT)	11:00-11:30 Coffee Break	11:00-11:30 Coffee Break	11:00-11:30 Coffee Break	11:00-11:30 Coffee Break
11:00-11:30 Coffee Break	11:30-12:30 6. Late In-Vessel Phase Florian Fichot (ASNR)	11:30-12:30 10. Ex-Vessel Phase - Part 2 Christophe Journeau (CEA)	11:30-12:30 15. Nuclear Industry and Research in Research in Germany Gert Langrock (Framatome GmbH)	11:30-12:30 19. New design Feature-Gen 3-Part2 Manfred Fischer
11:30-12:30 2. TMI-2 Accident Florian Fichot (ASNR)	12:30-13h30 Lunch	12:30-13h30 Lunch	12:30-13h30 Lunch	12:30-13h30 Lunch
12:30-13h30 Lunch	13:30-14:30 7. Early Containment Failure Pascal Piluso (CEA)	13:30-14:30 11 Source Term - Part 1 Luis Herranz (CIEMAT)	13:30-14:30 16. Radiological impact Federico Rocchi (ENEA)	13:30-14:30 20. Challenges for SA research in SMRs Luis Herranz (CIEMAT)+panelist
13:30-14:30 3. Chernobyl accident Pascal Piluso (CEA)	14:30-15:30 8. Hydrogen Risk-Part 1 Ivo Kljenak (JSI)	14:30-15:30 11 Source Term - Part 2 Luis Herranz (CIEMAT)	14:30-15:30 17. Long Term Accident Management Ahmed Bentaib (ASNR)	14:30-15:00 21. Status of European SA Research Luis Herranz (CIEMAT)
14:30-15:30 4. Fukushima Accident-Part 1 Luis Herranz (CIEMAT)	15:30-16:00 Coffee Break	15:30-16:00 Coffee Break	15:30-16:00 Coffee Break	15:00-15:30 Conclusion
15:30-16:00 Coffee Break	16:00-17:00 8. Hydrogen Risk-Part 2 Ivo Kljenak (JSI)	16:00-17:00 12.SA analysis: Part1. Integral codes Fulvio Mascari (ENEA)	16:00-17:00 Visit of FZJ installations Stephan Kelm (FZJ)	15:45: Bus transfer to Düren main station
16:00-17:00 4. Fukushima Accident-Part 2 Luis Herranz (CIEMAT)	17:00-18:00 9. Steam Explosions -Part 1 Pascal Piluso (CEA)	17:00-18:00 14.Safety Assessment (PSA) Sara Beck (GRS)	17:00-18:00 Visit of FZJ installations Stephan Kelm (FZJ)	
17:10 Bus transfer to Aachen	18:10 Bus transfer	18:10 Bus transfer to Aachen	18:10 Bus transfer to Aachen	
	18:30-21:30 BBQ at 'Blumenhalle'			
	21:45 Bus transfer to Aachen			

subWP4.1: SASCamp 2025, June 30 – July 4

- ❑ **“Highly praised” new residential camp format**
- ❑ Small groups of participants working together with expert instructors on problem-solving for 5 critical SA domains, aligned with SAP lectures
- ❑ Participants really enjoyed the hands-on experience, intense group work and discussions, which enabled a better learning and understanding of the topics

SEVERE ACCIDENT Summer Camp - SASCAMP			
Monday, June 30	Tuesday, July 1	Wednesday, July 2	Thursday, July 3
8:10-8:25 Bus transfer			8:30-8:45 Bus transfer
8:30-9:30 Registration & Welcome			9:00-10:00 Wrap-up 'Uncertainties' assignments proposal
9:00-10:00 Wrap-up 'In-vessel phase' & Assignments proposal			10:00-11:00 Group work
10:00-11:00 Group work			11:00-11:30 Coffee Break
11:00-11:30 Coffee Break			11:30-12:30 Group work
11:30-12:30 Group work			12:30-13h30 Lunch
12:30-13h30 Lunch			13:30-15:00 Group work
13:30-15:00 Group work			15:00-15:30 Coffee Break
15:00-15:30 Coffee Break			15:30-16:30 Joint session and presentation
15:30-16:30 Joint session and presentation			16:30-17:00 Concluding discussion
16:30-17:00 Concluding discussion	16:30-17:00 Concluding discussion	16:30-17:00 Concluding discussion	16:30-17:00 Concluding discussion
17:10 Bus transfer	17:10 Bus transfer	17:10 Bus transfer	17:10 Bus transfer to Düren
	18:45 - 21:00 Dinner Restaurant at 'Schwan-Bistro'	18:30 - 21:00 Meeting on 'After work Market'	18:45 - 21:00 Dinner at 'Restaurant Einhorn'

Where we are with KNOS

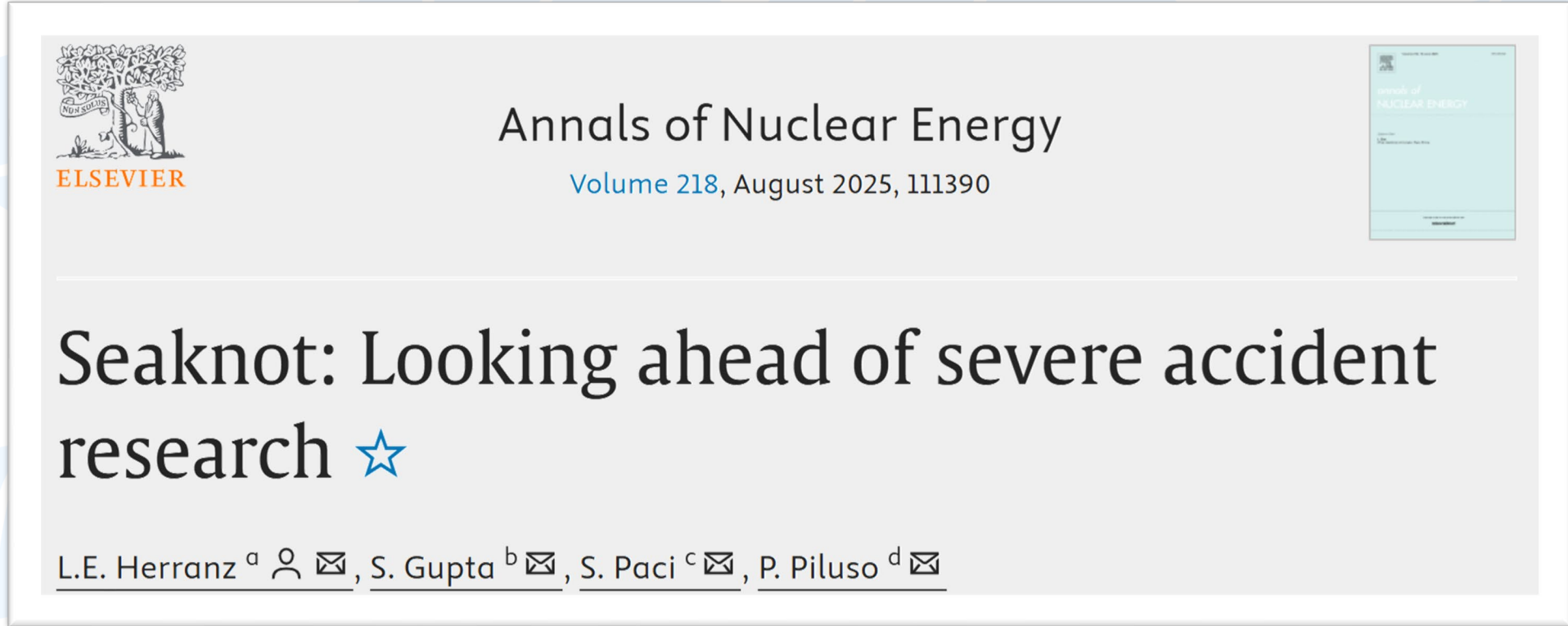
□ WP 4.4 (UNIFI, LGI):

- ❖ **T1 Public Communication:** Website, LinkedIn (800 followers) <https://www.linkedin.com/company/seaknot-eu/>, 2 open Newsletters published, 2 EU Researchers' Nights
- ❖ **T2 Internal Dissemination:** FLEXX and SharePoint tools
- ❖ **T3 External Dissemination:** zenodo open repository, 4 journal articles, 28 C actions, 1st Open Workshop
- ❖ **T4 Internal Mobility:** 17 grants for "participation" at SAP (12) & SASCamp (5) plus 5 long mobilities (6 months)

<https://seaknot-project.eu/>



Reference Paper for the Project



The article outlines the major pillars of SEAKNOT and synthesizes the progress made since its onset



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What is ahead

- ❑ organization of **ERMSAR 2026** in Madrid on 18-22 May 2026 (CIEMAT) <https://ermsar2026.com/>
- ❑ SA Textbook
 - ❖ **T1 Public Communication:** News & Events on website and LinkedIn account, 2 open Newsletters (*please, register for receiving*)
 - ❖ **T3 External Dissemination: 2nd Open Workshop** organization at CIEMAT Madrid on 30 September 2026



THANK YOU!

Get in touch for more information



All of the reports of the project will be available for download on the SEAKNOT website: **www.seaknot-project.eu**



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