

DigiDECOM 2026 – NuclearNEXT Deep Dive Workshop

Programme Overview and Presentations

Halden, Norway · 21–25 September 2026

Session schedule

Monday, 21 September 2026

09:00	15 min	Welcome
09:15	100 min	Session 1. Opening keynotes on the current nuclear landscape
10:55	25 min	Coffee break 1
11:20	70 min	Session 1. Opening keynotes on the current nuclear landscape, continued
12:30	75 min	Lunch
13:45	120 min	Session 2. The Norwegian context
15:45	20 min	Coffee break 2
16:05	30 min	Sponsor session: Halden Municipality; NND
16:35	25 min	End-of-day chaired discussion
19:00		Gala dinner

Tuesday, 22 September 2026

09:30	90 min	Session 3. European and international R&D developments
11:00	30 min	Coffee break 1
11:30	75 min	Session 3. European and international R&D developments, continued
12:45	75 min	Lunch
14:00	80 min	Session 4. Multinational European Closed Fuel Cycle - Part 1
15:20	20 min	Coffee break 2
15:40	45 min	Session 4. Multinational European Closed Fuel Cycle - Part 2
16:25	65 min	Session 4. Commercial Maritime Nuclear
17:30	45 min	End-of-day chaired discussion

Wednesday, 23 September 2026

09:00	90 min	Session 5. Human–Technology–Organisation Perspectives for Nuclear Systems
10:30	30 min	Coffee break 1
11:00	80 min	Session 6. From innovation to market-ready solutions
12:20	60 min	Lunch
13:20	60 min	Session 6. Robotics, Training and Applied Digital Solutions
14:20	20 min	Coffee break 2
14:40	40 min	Sponsor session: Ingecid and VRdose NOVA
15:20	25 min	Session 6. Demonstration and discussion session: from prototype to deployable solution
15:45	60 min	Session 7. Nordic and international collaboration
16:45	15 min	Norwegian Nuclear Association and Hungarian Nuclear Society: signing ceremony
17:00	30 min	End-of-day chaired discussion

Thursday, 24 September 2026

09:00	125 min	Session 8. AI/LLM applications for nuclear data
11:05	25 min	Coffee break 1
11:30	90 min	Session 9. Political and societal aspects of renewed nuclear interest
13:00	60 min	Lunch
14:00	60 min	End-of-day chaired discussion
15:00	15 min	Closing remarks and feedback

Friday, 25 September 2026

09:00	~180 min	Optional laboratory visits in Halden Participants must bring valid ID or passport!
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Presentations and speakers

Monday

Session 1. Opening keynotes on the current nuclear landscape

Monday 21 September 2026, 09:00–12:30

Chair: Helena Mrazova, IAEA. Co-chairs: Fredrik Holm, Halden Municipality / NKK / NNA; Jan Porsmyr, IFE.

Time	Presentation or programme item	Speaker and organisation
09:00–09:10	Welcome from IFE, opening of the workshop and introduction	Bjørn Axel Gran, Vice President, IFE; István Szőke, IFE
09:10–09:15	Welcome from HUN-REN Energy Research Center	Réka Szőke, HUN-REN CER
09:15–09:40	Opening keynote	István Szőke, IFE
09:40–10:05	Keynote speech	Fredrik Holm, Halden Municipality
10:05–10:30	Keynote speech	Helena Mrazova, IAEA
10:30–10:55	Keynote speech	Roger Garbil, European Commission
10:55–11:20	Coffee break	—
11:20–11:45	Keynote speech	Meritxell Martell, Merience / SHARE Platform
11:45–12:10	Keynote speech	Henry Preston, World Nuclear Association
12:10–12:30	General question-and-answer session and contingency	Session chairs

Lunch

Monday 21 September 2026, 12:30–13:45

Time	Presentation or programme item
12:30–13:45	Lunch

Session 2. The Norwegian context

Monday 21 September 2026, 13:45–15:45

Chair: Martin Hjelmeland, Norwegian Nuclear Association. Co-chairs: Tina Melfjord-Piontek, NKK; Fredrik Holm, Halden Municipality / NKK / NNA.

Time	Presentation or programme item	Speaker and organisation
13:45–14:00	From Knowledge to Readiness – What Is Needed for the Next Step?	Ingeborg Mork-Knutsen, Department Director, Radiation Protection and Environment Department, DSA
14:00–14:15	Transferring and unlocking Oil & Gas Capabilities to Nuclear	Mats Deleryd, Senior Vice President, Aker Solutions
14:15–14:30	Presentation by AFRY	Ingeborg Grötterud, Head of Nuclear, AFRY
14:30–14:45	Clearing up the past, building for the future	Robert Haugen, Director of Business Development, AF Gruppen
14:45–15:00	The Norwegian Thorium Adventure	Øystein Asphjell, Daglig Leder, Thor Energy
15:00–15:15	Presentation by EDF	Alice RADJAGOBAL, EDF
15:15–15:45	Panel discussion on the Norwegian context	Session speakers and chairs; additional panellists may be invited

Coffee break

Monday 21 September 2026, 15:45–16:05

Time	Presentation or programme item
15:45–16:05	Coffee break

Sponsor session

Monday 21 September 2026, 16:05–16:35

Time	Presentation or programme item	Speaker and organisation
16:05–16:15	Sponsor presentation — Halden Municipality, Gold sponsor	Fredrik Holm, Halden Municipality
16:15–16:25	Sponsor presentation — NND, Silver sponsor	Martin Andreasson, NND
16:25–16:35	Contingency: short break, or additional sponsor presentation if confirmed	—

End-of-day chaired discussion

Monday 21 September 2026, 16:35–17:00

Time	Presentation or programme item	Speaker and organisation
16:35–17:00	End-of-day chaired discussion	Session chairs

Gala dinner

Monday 21 September 2026, from 19:00

Time	Presentation or programme item
19:00	Gala dinner

Tuesday

Session 3. European and international R&D developments

Tuesday 22 September 2026, 09:30–12:45

Chair: Maugan Michel, CEA. Co-chairs: Seifallah Ben Hadj Hassine, European Commission, DG RTD; Abdenour Benkrid, IFE; Helena Mrazova, IAEA.

Time	Presentation or programme item	Speaker and organisation
09:30–09:45	International R&D Initiatives and Emerging Technologies in Nuclear Decommissioning	Helena Mrazova, NE/NEFW/D&ER, IAEA
09:45–10:00	Euratom Research and Training Programme: Pioneering Robotics and Digitalisation in the Nuclear Back-End	Seifallah Ben Hadj Hassine, European Commission, DG RTD
10:00–10:15	EURATOM XS-ABILITY: First field results and road to demonstration of autonomous AI-driven unmanned robotic radiological surveying for nuclear D&D	Maugan Michel, CEA
10:15–10:30	Towards Autonomous Multi-Robot Fleets for Safe and Secure Nuclear Decommissioning	Abdenour Benkrid, IFE
10:30–10:45	Euratom DORADO – applying digital twins and a dedicated ontology for robot-assisted decommissioning operations	Antti Rätty, VTT
10:45–11:00	Questions and contingency	Session chairs
11:00–11:30	Coffee break	—
11:30–11:45	Radiation source reconstruction and visualization using AV/VR technologies to support CNL's decommissioning mission	Lucian Ivan, CNL
11:45–12:00	End-User Driven Digital Twins for Geological Radioactive Waste Disposal: EURAD-2 DITOCO2030	Réka Szőke, HUN-REN EK-CER
12:00–12:15	Coordinated Heterogeneous UGV–UAS Systems for Nuclear and Radiological Emergency Response	Abdenour Benkrid, IFE
12:15–12:45	Questions and discussion	Session chairs

Lunch

Tuesday 22 September 2026, 12:45–14:00

Time	Presentation or programme item
12:45–14:00	Lunch

Session 4. Future nuclear systems and applications (part 1): Multinational European Closed Fuel Cycle

Tuesday 22 September 2026, 14:00–17:30

Chair: Erlend Hagen, Traneberget AS. Co-chairs: Martin Hjelmeland, Norwegian Nuclear Association; Shahab Dabiran-Zohoory, OECD NEA.

Time	Presentation or programme item	Speaker and organisation
14:00–14:08	Opening: Closing the fuel cycle is reemerging as a solution to our energy constraints	Erlend Hagen, Traneberget AS / Norwegian Nuclear Association
14:08–14:20	OECD Nuclear Energy Agency activities supporting fuel cycle closure	Shahab Dabiran-Zohoory, Nuclear Scientist, OECD NEA
14:20–14:35	Reprocessing and recycling spent nuclear fuel: 50+ years of industrial experience, future developments, and the path towards the closed fuel cycle	Xavier Domingo, Head of European Division and Strategic Marketing, Orano Recyclage
14:35–14:50	Fast neutron reactors and France's closed nuclear fuel cycle program: Driving strategic independence from natural uranium by 2100	Sylvain Takenouti, Deputy Director, French nuclear fuel cycle closure programme, CEA
14:50–15:05	Spent nuclear fuel: a liability or an asset for today's and tomorrow's nuclear power plant owners?	Luc Van Den Durpel, CEO and Founding Partner, Nuclear-21
15:05–15:20	Legal and Safeguards Perspectives — A multinational European closed fuel cycle under the Euratom framework	Bogdan Stefan, Head of Legal Sector, Euratom / DG ENER
15:20–15:40	Coffee break	—
15:40–16:20	Panel discussion Opportunities, challenges and international conditions for a multinational European closed fuel cycle	The speakers above, joined by Dawn Watson, Head of Strategy and Technical, Sellafield
16:20–16:25	Closing remarks	Erlend Hagen, Traneberget AS / Norwegian Nuclear Association

Session 4. Future nuclear systems and applications (part 2): Commercial Maritime Nuclear

Time	Presentation or programme item	Speaker and organisation
16:25–16:30	Opening: Nuclear power can decarbonize commercial shipping. Ongoing development, and how different reactors and their fuel fit in the larger picture	Erlend Hagen, Traneberget AS / Norwegian Nuclear Association
16:30–16:40	NuProShip and SAINT at NTNU	Terje Strand, NuProShip / SFI Saint
16:40–16:50	The Emerald GEM High-Temperature Gas-Cooled Reactor (HTGR) and Energy Systems: Enabling Marine Nuclear — Electric Power & Propulsion to Decarbonize the Shipping Industry	Hallgeir Juliebø, Co-founder and CCO, Emerald Nuclear
16:50–17:00	Motivations and Considerations in Korean MSR R&Ds for Commercial Ship Propulsion	Yonghee Kim, Professor, Department of Nuclear and Quantum Engineering, KAIST
17:00–17:10	Human Factors Considerations in Nuclear Maritime	Stine Strand, IFE
17:10–17:30	Panel discussion	Session speakers

End-of-day chaired discussion

Tuesday 22 September 2026, 17:30–18:15

Time	Presentation or programme item	Speaker and organisation
17:30–18:15	End-of-day chaired discussion	Session chairs

Wednesday

Session 5. Human–Technology–Organisation Perspectives for Nuclear Systems

Wednesday 23 September 2026, 09:00–10:30

Chair: Stine Strand, IFE / Halden HTO. Co-chair: Andreas Bye, IFE / Halden HTO.

Time	Presentation or programme item	Speaker and organisation
09:00–09:20	Putting the Human Back at the Centre of the Industrial Digital Landscape with a Smart Voice Assistant	Masha Guermonprez, SPIX Industry
09:20–09:40	AI and 3D-Scanning for Nuclear Decommissioning	Stefan Hörmann, aurivus GmbH
09:40–10:00	Robotics Factors	Richard Screeton, Freelancer (previously ONR, UK)
10:00–10:15	International RegLab Project	Faiza Sefta, OECD NEA
10:15–10:30	The Halden HTO Project	Andreas Bye, IFE / Halden HTO

Coffee break

Wednesday 23 September 2026, 10:30–11:00

Time	Presentation or programme item
10:30–11:00	Coffee break

Session 6. From innovation to market-ready solutions (part 1): Digital Planning and Decommissioning Execution

Wednesday 23 September 2026, 11:00–12:20

Chair: Kwangho Lee, KRID. Co-chairs: Kyungik An, Seabury Solutions; Iliana Ilieva, IFE; Bálint Batki, IFE.

Time	Presentation or programme item	Speaker and organisation
11:00–11:20	ThreadSafe – From Prototype to Platform: Connecting Nuclear Information with AI and Ontologies	Andy Connell and Olivia Harrison, Amentum
11:20–11:40	Development of a Scan-to-BIM Workflow to Support Clearance of Buildings in Germany	Melanie Müßle, KIT; Kate Clintworth, KIT; Maarten Becker, iUS GmbH
11:40–12:00	Semantic Backbone for the Decommissioning Lifecycle: Linking Dose Budget, Work Packages and Regulatory Evidence (oral, pre-prepared audiovisual)	Kyungik An, Seabury Solutions
12:00–12:20	Development of a Digital Twin Platform for Reactor Internals Segmentation and Decommissioning	Chung-gyu Lee, KEPCO KPS

Lunch

Wednesday 23 September 2026, 12:20–13:20

Time	Presentation or programme item
12:20–13:20	Lunch

Session 6. From innovation to market-ready solutions (part 2): Applied Digital Solutions

Wednesday 23 September 2026, 13:20–14:20

Time	Presentation or programme item	Speaker and organisation
13:20–13:40	Digital Dosimetry Solutions for Enterprise Nuclear Business and MRO/CMIS Applications	Kent R. Freeland, PowerKnowledge Energy Systems
13:40–14:00	Digital Twin Based Training System for Decommissioning and Decontamination of Radioactively Contaminated Facilities	Srael Lee, NOVATEK
14:00–14:20	DiWiDeRe – Digital Twin of a Deep Geological Repository for Nuclear Waste	Jan Kočí, CXI, Technical University of Liberec

Coffee break

Wednesday 23 September 2026, 14:20–14:40

Time	Presentation or programme item
14:20–14:40	Coffee break

Sponsor session

Wednesday 23 September 2026, 14:40–15:20

Time	Presentation or programme item	Speaker and organisation
14:40–14:55	Company pitch — Ingecid, Gold sponsor	Ingecid
14:55–15:20	Introduction to the VRdose NOVA project, short demonstration of VRdose and discussion	István Szőke, VRdose NOVA project, IFE

Session 6. From prototype to deployable solution (part 3): Discussion

Wednesday 23 September 2026, 15:20–15:45

Time	Presentation or programme item	Speaker and organisation
15:20–15:45	Discussion session	Session chairs

Session 7. Nordic and international collaboration

Wednesday 23 September 2026, 15:45–16:45

Chair: Margit Fábián, HUN-REN CER / Hungarian Nuclear Society. Co-chairs: Sven Sers, GIFEN / Capgemini; Camil Ghajary, CNA; Victoria Taubner, Nuclear Sweden; Harri Varjonen, FinNuclear.

Time	Presentation or programme item	Speaker and organisation
15:45–16:05	Collaboration Inside-Out and Outside-In: A European and Nordic Perspective	Thomas Wiese, ENS / Framatome / NA ²
16:05–16:25	Knowledge Management within the EURAD-2 Programme	Christophe Debayle, ASNR
16:25–16:45	Historical Nordic Nuclear Lessons and a Path Forward	Martin Hjelmeland, Country Manager Norway, Nordic Nuclear Energy AB

Session 7. Nordic and international collaboration (cont'd): Norwegian Nuclear Association and Hungarian Nuclear Society

Wednesday 23 September 2026, 16:45–17:00

Time	Presentation or programme item	Speaker and organisation
16:45–17:00	The Norwegian Nuclear Association: building international partnerships, and signing of a Memorandum of Understanding with the Hungarian Nuclear Society	István Szőke, IFE / Norwegian Nuclear Association; Margit Fábián, HUN-REN EK-CER / Hungarian Nuclear Society

End-of-day chaired discussion

Wednesday 23 September 2026, 17:00–17:30

Time	Presentation or programme item	Speaker and organisation
17:00–17:30	End-of-day chaired discussion	Session chairs

Thursday

Session 8. AI/LLM applications for nuclear data

Thursday 24 September 2026, 09:00–11:05

Chair: Faiza Sefta, OECD NEA. Co-chairs: Terje Tverberg, IFE; Andreas Bye, IFE / Halden HTO.

Time	Presentation or programme item	Speaker and organisation
09:00–09:05	Short overview of the HRP Cladding Corrosion Testing	Réka Szőke, HUN-REN EK-CER

Time	Presentation or programme item	Speaker and organisation
09:05–09:25	Long-Term Behavior of Hydrogenated Zirconium-Alloy Claddings Under Dry-Storage Conditions: The SPIZWURZ Bundle Test	Daniel Auri Schaefer, KIT
09:25–09:45	NEA Joint Project “Alxpertise”	Shahab Dabiran-Zohoori, OECD NEA
09:45–10:05	From Halden Records to BISON: Traceable Nuclear Data Extraction with a Deterministic-First MCP Architecture	Bradlee Hope Jensen and Daniel J. Vanwasshenova, Idaho National Laboratory
10:05–10:25	NEA Joint Project “HAiLDEN”	Christian Hartmann and Terje Tverberg, IFE
10:25–10:45	AERIS Fuel Agent: An agentic workflow approach to analysing nuclear fuel data	Denise Adorno Lopes, ORNL
10:45–11:05	VTT's activities with AI/ML/LLM, especially focusing on possibilities with the Halden data utilization	Janne Heikinheimo, VTT

Coffee break

Thursday 24 September 2026, 11:05–11:30

Time	Presentation or programme item
11:05–11:30	Coffee break

Session 9. Political and societal aspects of renewed nuclear interest

Thursday 24 September 2026, 11:30–13:00

Chair: Berta Picamal Vicente, nucleareurope. Co-chairs: Fredrik Holm, Halden Municipality / NKK / NNA; Meritxell Martell, Merience.

Time	Presentation or programme item	Speaker and organisation
11:30–11:40	Political and societal aspects of new nuclear in Europe	Berta Picamal Vicente, nucleareurope
11:40–11:50	Municipalities as leaders to study new nuclear	Fredrik Holm, Halden Municipality
11:50–12:00	Political will and public support: the state of nuclear in Sweden	Ted Lind, Senior Advisor, Swedenergy
12:00–12:10	Who answers for it — when the institution is gone?	Denys Nazarenko, Advisor, Kyiv City Council
12:10–12:20	Learning from Nuclear Legacies to inform political and societal decision making around new nuclear developments	Sandra Faught, IAEA
12:20–13:00	Panel discussion This panel traces the political and societal dimensions of the renewed interest in nuclear energy across scales, from the EU-level industry perspective to municipalities positioning themselves as active drivers, to a national case study of how political will and public support has changed over time. The panel also discusses what happens to responsibility and institutional memory when the bodies that made original commitments no longer exist. Finally, lessons are drawn from historical nuclear legacies to inform how today's political and societal decisions around new build should be made. Overall, this session addresses the opportunities and challenges of the long-term governance and trust related to new nuclear development.	Session speakers and chairs

Lunch

Thursday 24 September 2026, 13:00–14:00

Time	Presentation or programme item
13:00–14:00	Lunch

End-of-day chaired discussion

Thursday 24 September 2026, 14:00–15:00

Time	Presentation or programme item	Speaker and organisation
14:00–15:00	End-of-day chaired discussion	Session chairs

Closing remarks and feedback

Thursday 24 September 2026, 15:00–15:15

Time	Presentation or programme item	Speaker and organisation
15:00–15:15	Closing remarks and feedback	General chairs

Friday

Optional laboratory visits in Halden (Os Alle 5)

Friday 25 September 2026, from 09:00 – 12:00

Time	Presentation or programme item	Speaker and organisation
09:00–12:00	Optional laboratory visits in Halden. Participants must bring valid ID or passport.	IFE