

DigiDecom 2021 – DIGITAL

Online international workshop focusing on digital transformation, robotics and other game changing trends in nuclear decommissioning



DigiDecom Day 2 – 24.3.2021

Innovation needs, solutions and initiatives related to digital transformation of decommissioning and waste management

- The Session will start at 11:00 (CET)
- Session is recorded to be put on website [xxxxxxx \(??\)](#)
- Please keep your microphone muted and camera off (unless presenting)

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Welcoming Words: Day 2 Session

Innovation needs, solutions and initiatives related to digital transformation of decommissioning and waste management

Chairpersons: Ole Jakob Ottestad (NND, Norway) & Erika Holt (VTT, Finland)

General workshop session guidance

- Please keep your microphone muted and turn off your camera (unless presenting)
- Everyone is encouraged to give Comments and Questions through Chat panel
- A bell tone will indicate to Speakers when they have 1 minute remaining (move to summary slide please)
- Session Chairpersons will raise questions to the Speakers from the Chat, as time allows
- Afternoon session will utilise breakout groups for more in-depth discussions
- Chairpersons will summarise the day's session at the end of the day
- **In-session polling questions will be used, please provide feedback**

AGENDA (first portion)

11:00	Participants Admission
11:30	Opening Remarks by Session Chairs
11:40	NND on a journey towards digital decommissioning and waste management <i>Ole Jakob Ottestad – NND, Norway</i>
12:00	Digital transformation of decommissioning <i>István Szőke – IFE, Norway</i>
12:20	Computational personal dosimetry using flexible phantoms and staff tracking: possible applications in decommissioning <i>Filip Vanhavere and Pasquale Lombardo– SCK-CEN, Belgium</i>
12:40	Towards an international nuclear decommissioning ontology – Results from work in PLEIADES and co-operation among IAEA collaborating centres <i>Franz Borrmann – iUS, Germany</i>
13:00	Technical aspects of digital integrated decommissioning support systems and prospects with ISDC (International Structure for Decommissioning Costing of Nuclear Installations) based costing <i>Dusan Daniska – WAI (Aquila Costing), Slovakia</i>
13:20	3D Digital Simulation of complex D&D projects - Use case: Chinon A2 dismantling project <i>Paola Ontiveros – EDF, France</i>
13:40	20 min Break

AGENDA (second portion)

14:00	How BIM is used in the construction industry – prospects for use in nuclear decommissioning <i>Dag Fjeld Edvardsen et. al. – Catenda, Norway</i>
14:20	Digital transformation – A TSO point of view <i>Patrice François – IRSN, France</i>
14:40	How digital models and simulation are used by the Norwegian and Russian regulatory bodies in legacy management <i>Malgorzata Sneve – DSA, Norway</i>
15:00	Up-to-date view of the site improves project performance – user study of Fortum's eSiteview in decommissioning <i>Jere Luukkanen and Miko Olkkonen – Fortum Power and Heat Oy, eSite</i>
15:20	Towards digital tools for waste package and facility monitoring and prediction <i>Ernst Niederleithinger – BAM, Germany</i>
15:40	A new IAEA Technical Document on Occupational Radiation Protection in Decommissioning of Nuclear Installations - Main Aspects of Management, Planning and Conduct <i>Burcin Okyar - IAEA</i>
16:00	20 min Break

AGENDA (third portion)

16:20 Discussion of innovation needs and possible solutions related to digital transformation of decommissioning

Chairs present of the objectives of the group sessions

Moderators shortly present the topic of their group and some food for thought (e.g. outcomes from PLEIADES)

Breakout to groups:

Group 1 Regulatory/TSO aspects for use of BIM based of modular integrated software systems

Moderators: Patrice Francois and Malgorzata Sneve

Group 2 Technical barriers and needs for implementation BIM based of modular integrated software systems

Moderators: Dušan Daniška, Dag Fjeld Edvardsen and Ole Jakob Ottestad

Group 3 Human and organisational barriers and needs for implementation of BIM and digital twin based support systems for decommissioning and waste management

Moderators: Erika Holt and Martin Andreasson

Group 4 International nuclear decommissioning ontology

Moderators: Franz Borrmann and Maarten Becker (iUS)

Group 5 Use of digital models and simulations for international knowledge exchange

Moderators: Patrick O'Sullivan and István Szőke

Moderators will steer discussions and prepare final summary report from the session. A moderator will capture comments with on-line sharing of their screen.

Instruction for moderators: Focus on identifying user requirements (and, possibly, associated tech requirements) for use of 3D digital modes.

17:20 – Short summaries from the group discussions presented in Plenary by the Moderators (5 min each) & Plenary Discussion

Moderators and Session Chairs

18:00 – Final remarks of the Session Chairs

18:15 *Erika Holt and Ole Jakob Ottestad*

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Coffee / Stretch Break

Resume at 14.00



AGENDA (second portion)

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16:00	20 min Break

AGENDA (third portion)

See separate
Teams/Calendar
link to join
Groups

16:20	<p>Discussion of innovation needs and possible solutions related to digital transformation of decommissioning</p> <p>Chairs present of the objectives of the group sessions</p> <p>Moderators shortly present the topic of their group and some food for thought (e.g. outcomes from PLEIADES)</p> <p><u>Breakout to groups:</u></p> <p>Group 1 Regulatory/TSO aspects for use of BIM based of modular integrated software systems Moderators: Patrice Francois and Malgorzata Sneve</p> <p>Group 2 Technical barriers and needs for implementation BIM based of modular integrated software systems Moderators: Dušan Daniška, Dag Fjeld Edvardsen and Ole Jakob Ottestad</p> <p>Group 3 Human and organisational barriers and needs for implementation of BIM and digital twin based support systems for decommissioning and waste management Moderators: Erika Holt and Martin Andreasson</p> <p>Group 4 International nuclear decommissioning ontology Moderators: Franz Borrmann and Maarten Becker (iUS)</p> <p>Group 5 Use of digital models and simulations for international knowledge exchange Moderators: Patrick O’Sullivan and István Szőke</p> <p><i>Moderators will steer discussions and prepare final summary report from the session. A moderator will capture comments with on-line sharing of their screen.</i></p> <p><i>Instruction for moderators: Focus on identifying user requirements (and, possibly, associated tech requirements) for use of 3D digital modes.</i></p>
17:20 – 18:00	<p>Short summaries from the group discussions presented in Plenary by the Moderators (5 min each) & Plenary Discussion</p> <p><i>Moderators and Session Chairs</i></p>
18:00 – 18:15	<p>Final remarks of the Session Chairs</p> <p><i>Erika Holt and Ole Jakob Ottestad</i></p>

General guidance for Breakout Groups



- Request to please keep your Camera ON
- Raise your virtual “hand” to speak/share
- Keep your microphone muted when not talking
- Welcome to give comments and Questions through chat
- Be active - it is important to us to hear comments, suggestions, ideas, needs
- Moderators will summarise discussion at the end of the day

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Coffee / Stretch Break

Resume at 16.20 in Groups



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Breakout Group Summaries (17.20)

by Group Moderators

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Concluding Remarks (18.00) by Chairpersons

Key Take Away Messages

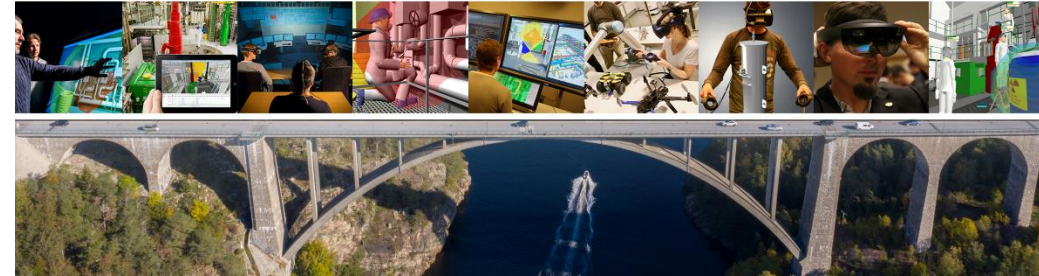
- Xx
- Yy
- zz

Identified Calls for Action

- Xx
- Yy
- zz

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Thank you for your active participation!