

Innovation and market uptake of AI, data and robotics in inspection and maintenance across sectors: Needs and possibilities

ADRA Forum workshop and kick-off for the ADRA topic group on ADR in I&M, 9 November 2023

Organizers:

- Aksel A. Transeth (SINTEF)
- Ekkehard Zwicker (Waygate Technologies)
- Thomas Vögele (DFKI)
- Ebert van Vonderen (TUKER)
- Richard Moore, Magnus Bjerkeng, and Mariann Merz (SINTEF).

Want to join the ADRA topic group mailing list?
Fill the form circulated in the room or send an e-mail to Aksel.A.Transeth@sintef.no

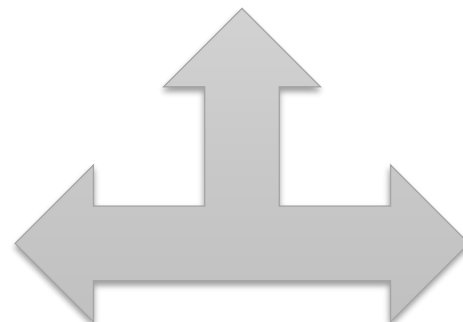
ADRA topic group (TG) on ADR in Inspection and Maintenance (I&M)

Our mission is to facilitate **cross-community networking** among stakeholders, promote the exchange of **challenges and success stories**, and **identify next steps** in fostering a thriving I&M AI, data and robotics community in Europe – while contributing to the European Green Deal.

TG coordinators:

Aksel A. Transeth (SINTEF)

Ekkehard Zwicker (Waygate Technologies)



Other events:

- AI-based analytics in I&M (March 2024, Italy)
- Best-practice standards for data management (to be considered)



Today's workshop on ADR in I&M

1. What are the next **high-value use cases** for AI, data and robotics in **inspection and maintenance**?
2. What are the **current gaps** (business readiness, technology readiness, regulations, etc.) that hinder large-scale uptake of such technologies in I&M?
3. **What strategies** can European industry and research employ to capitalize on the innovations brought by novel AI algorithms, data, and robotics in I&M?

Agenda

- Introduction
- Short presentations
 - Use cases and cross-cutting challenges in inspection and maintenance. By **Aksel A. Transeth** (SINTEF).
 - How can Generative AI impact future inspection and maintenance? By **Thordur Arnason** and **Fredrik Borchgrevink** (Capgemini).
 - The role of a research organization in facilitating market uptake of AI, data and robotics in I&M. By **Tsampikos Kounalakis** (Danish Technological Institute, DTI).
 - AI, data and drones in inspection of power distribution infrastructure. By **Richard Moore** (representing Field Group, senior researcher at SINTEF).
 - Exploit existing data and build an AI-drive I&M strategy: tips and tricks for a cost-effective roadmap. By **Veronica Brizzi** and **Giulia Baccarin** (MIPU).
- Brainstorming and summary

Brainstorming

1. What are the next **high-value use cases** for AI, data and robotics in **inspection and maintenance**?
2. What are the **current gaps** (business readiness, technology readiness, regulations, etc.) that hinder large-scale uptake of such technologies in I&M?
3. **What strategies** can European industry and research employ to capitalize on the innovations brought by novel AI algorithms, data, and robotics in I&M?

Thank you!

Contact Aksel.A.Transeth@sintef.no to
join the I&M topic group mailing list.