

WS#43: Data Spaces for the Development of AI & Robotic Applications

ERF 2025, Thursday 27th March



“AI-Enabled Data Lifecycles Optimization & Data Spaces Integration for Increased Efficiency & Interoperability”



This project has received funding from the European Union’s Horizon Europe research and innovation programme under grant agreement No. 101135988

Overview of the Workshop

Goal of the Workshop

- Highlight the potential benefits of Data Spaces for the development of AI and robotic applications in the Mobility, Industrial and Healthcare domains

Questions to be answered

- What are the most important applications for Data Spaces in Mobility, Industrial and Healthcare and which are the main technological challenges that need to be addressed in this scope?
- What are the most important technological AI challenges that need to be overcome to promote Data Spaces usage within the three domains of PLIADES?
- How can Data Spaces assist both AI technology developers, robot providers and end-users in real-world applications and what are the expected benefits?



WS#43 - Room 20
**Data Spaces for the development of
AI and robotic applications**

MEET OUR SPEAKERS



**Matthijs
Punter**
TNO



**Dr. Dimitrios
Giakoumis**
CERTH-ITI



**Erik
Cornelisse**
TNO



**Dr. Ioannis
Mariolis**
CERTH-ITI



**Dr. Mauro
Bellone**
FinEst centre,
Taltech



**Franziska
Kirstein**
Blue Ocean
Robotics

March 27th, 11:10 a.m. to 12:30 p.m.

www.erf2025.eu

Workshop Agenda

11:10 - 11:15 Introduction & Overview: Overview of workshop objectives and structure

11:15 - 11:30 Insights and Q&A on Data Spaces (Matthijs Punter – TNO, Netherlands)

11:30 - 11:37 Data Spaces for the Mobility, Healthcare and Industrial Domain – The PLIADES Project Case (Dr. Dimitrios Giakoumis – ITI, CERTH, Greece)

11:37 - 11:45 Data Space Protocol in Energy, Smart Industry and Healthcare: (Erik Cornelisse – TNO, Netherlands)

11:45 - 11:52 Data Spaces for the Development of Robotics: The PLIADES paradigm (Dr. Ioannis Mariolis – ITI, CERTH, Greece)



Workshop Agenda

11:52 - 12:00 Opportunities and Challenges for Data Spaces in AI Applications from the End-User's Point of View

- Mobility domain (Dr. Mauro Bellone – FinEst Centre for Smart Cities, Tallinn University of Technology, Estonia)
- Healthcare domain (Franziska Kirstein – Blue Ocean Robotics, Denmark)

12:00 - 12:20 Panel Discussion: Interactive discussion with all speakers (moderated by Franziska Kirstein – Blue Ocean Robotics, Denmark)

12:20 - 12:30 Conclusions

