RoX – The Ecosystem Solution for Smart, Competitive Maintenance in AI-Based Robotics: Panel

June 24rd, 2025, 10 - 11 am
Automatica, Smart Maintenance+ stage, hall B6, booth 520

Panelists:

Prof. Dr. Bernd Kuhlenkoetter, Advisor Strategic Research and Development, ABB
Dr. Rainer Bischoff, General Manager Germany, Intrinsic
Dr. Michael Suppa, Managing Director, Roboception
Martin May, Director Technology and Innovation Management, Schunk
Dr. Horst Heinol-Heikkinen, Management Board VDMA Fachverbands Robotik + Automation; CEO Asentics Group
Prof. Dr. Frank Koester, Head of Institute for AI Safety and Security, German Aerospace Center (DLR); University Oldenburg

Moderator: Prof. Dr. Chris Schlueter Langdon, Deutsche Telekom; Drucker School of Management, Claremont/ Los Angeles

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ROX
Enabling AI Robotics

Our panelists

Prof. Dr. Bernd Kuhlenkötter

Advisor Strategic Research and Development

ABB

Martin May

Director Technology and Innovation Management

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SCHUNK

Dr. Horst Heinol-Heikkinen

Member of the Executive Board

VDMA Robotics + Automation

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Prof. Dr. Frank Köster

Founding Director of the Institute for AI Safety and Security

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Dr. Rainer Bischoff

General Manager Germany

Intrinsic

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Dr. Michael Suppa

Managing Director

Roboception

roboception

Prof. Dr. Chris Schlueter Langdon (Moderator)

Data Analytics Executive and Scientist

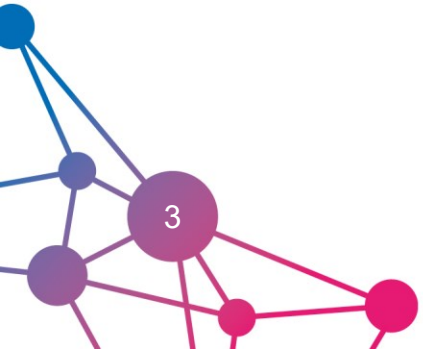
Catena-X Product Manager

T-Systems International GmbH

T Systems

ROX Enabling AI Robotics

Digital Ecosystem for AI-based Robotics – Partner



ROX
Enabling AI Robotics

Data ecosystem: Advantages and software stack

Data ecosystems are built on game-changing infrastructure for secure, trustful cross-organizational data sharing at scale. They fuel digital transformation—not just with 'Big Data,' but better data—for Gen AI and modern apps.

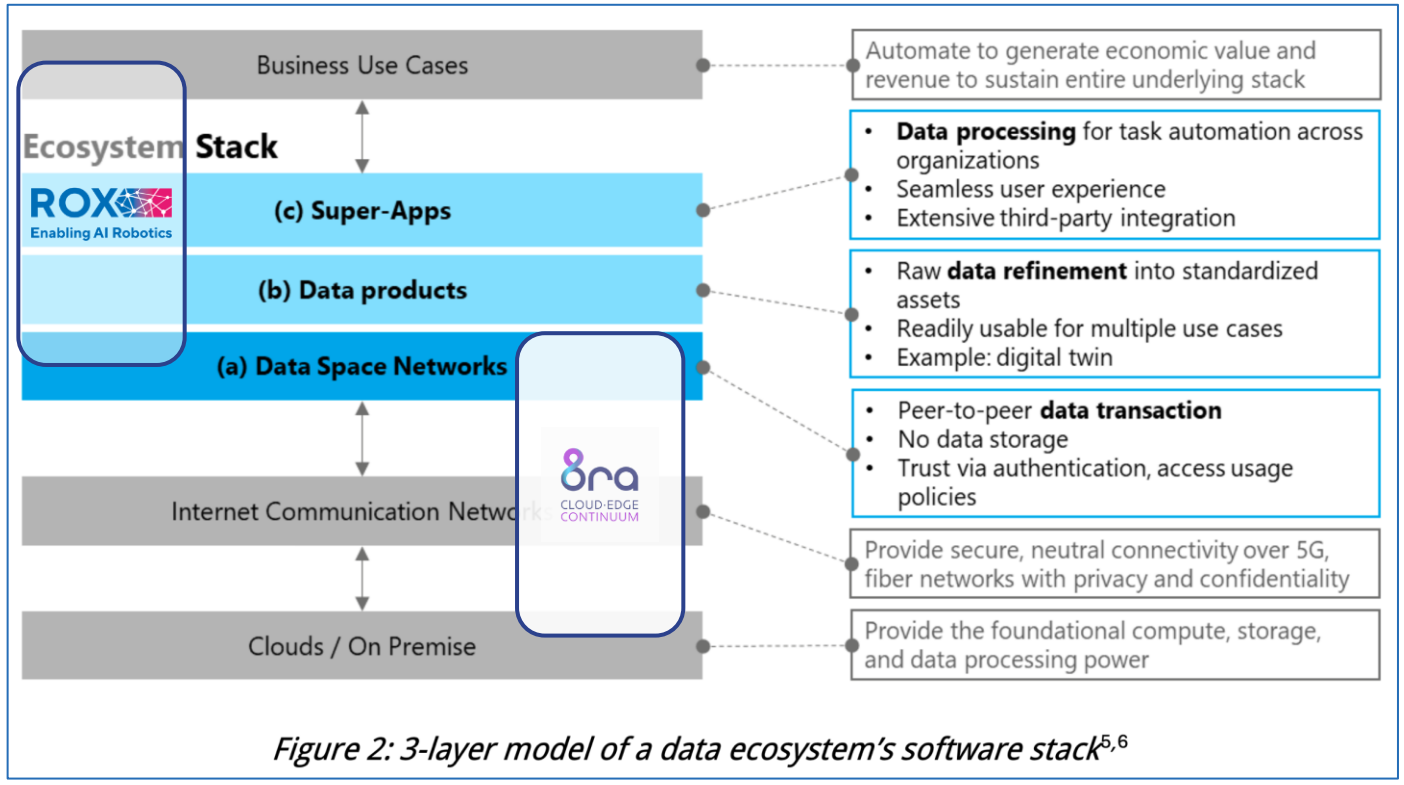


Figure 2: 3-layer model of a data ecosystem's software stack[5,6]

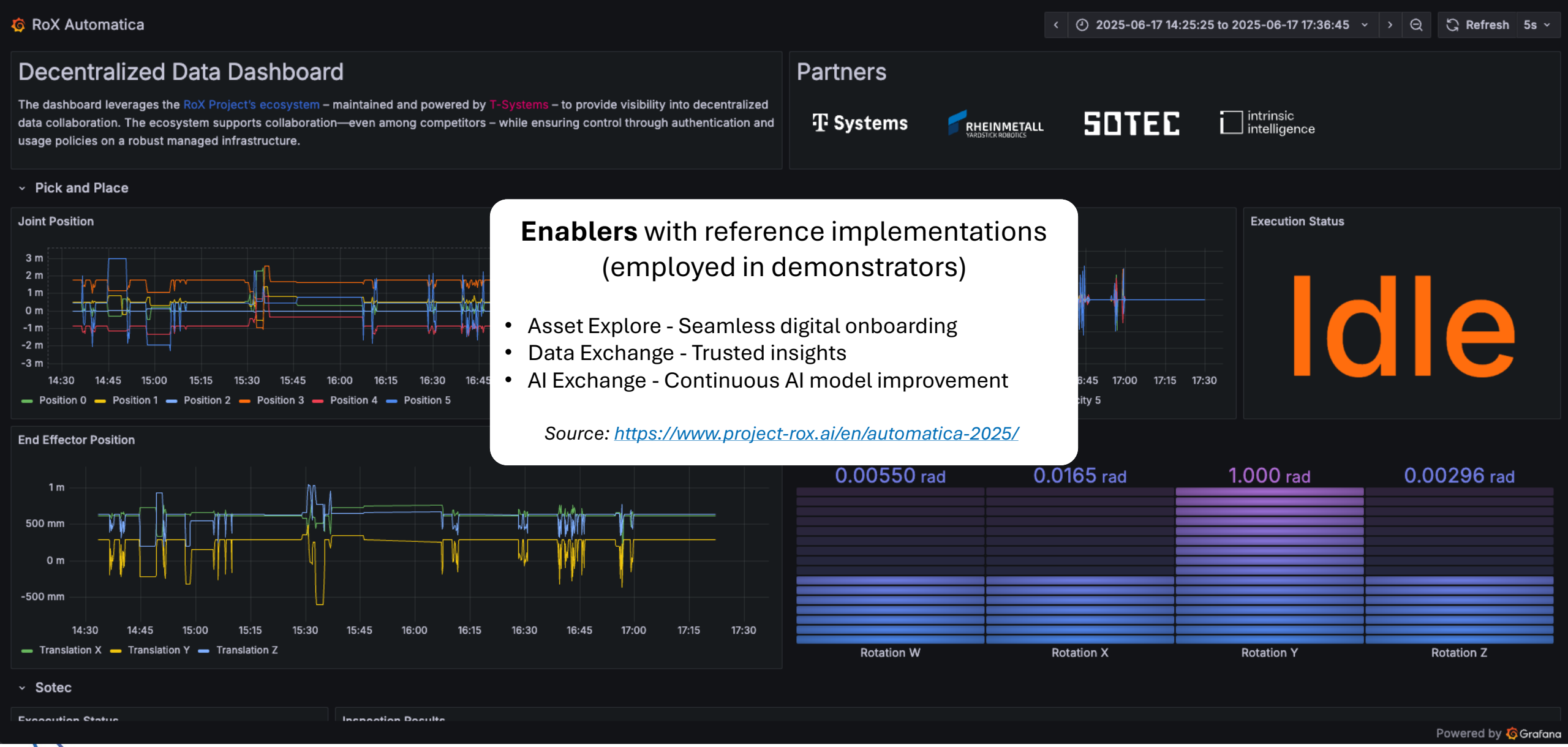
Source: International Data Spaces Association

ECOSYSTEM properties

1. An economic community where the whole exceeds the sum of its parts
2. Cooperation with competitors
3. Distributed system with flexibility and resilience

Data SOVEREIGNTY mechanisms

1. Authentication → Passport, verification …
2. Access control → White/ blacklist
3. Usage policy → Legally binding contract



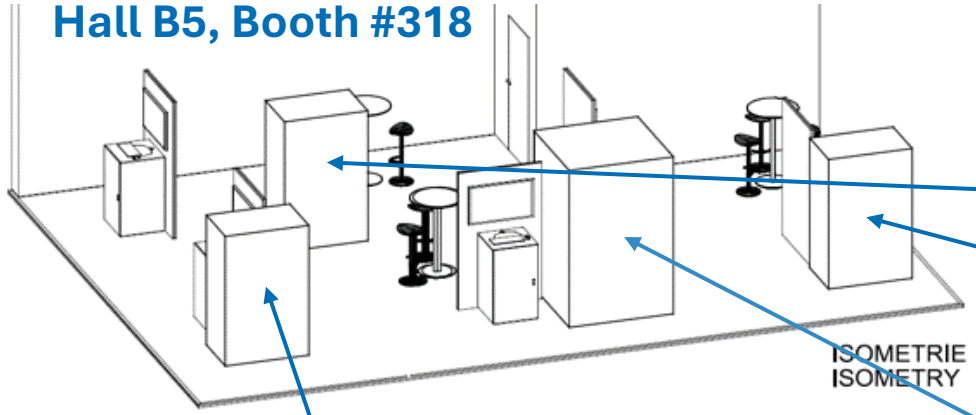
Enablers with reference implementations (employed in demonstrators)

- Asset Explore - Seamless digital onboarding
- Data Exchange - Trusted insights
- AI Exchange - Continuous AI model improvement

Source: https://www.project-rox.ai/en/automatica-2025/

Three live demos plus ecosystem dashboard

Hall B5, Booth #318



Ecosystem Dashboard

First ecosystem app visualizes new data for symptom and diagnostics analytics

Teach & Assemble

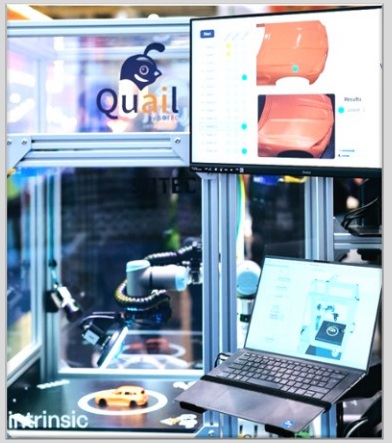
AI-powered robot learns kitting layouts by observation, enabling autonomous assembly based on user-defined examples

Dynamic Pic & Place

AI-powered robot uses CAD models for dynamic object recognition and pick & place in unstructured environments

Quality Inspection

AI-powered robot performs quality inspection, enabling automated path planning and an intuitive user interface



BACKUP