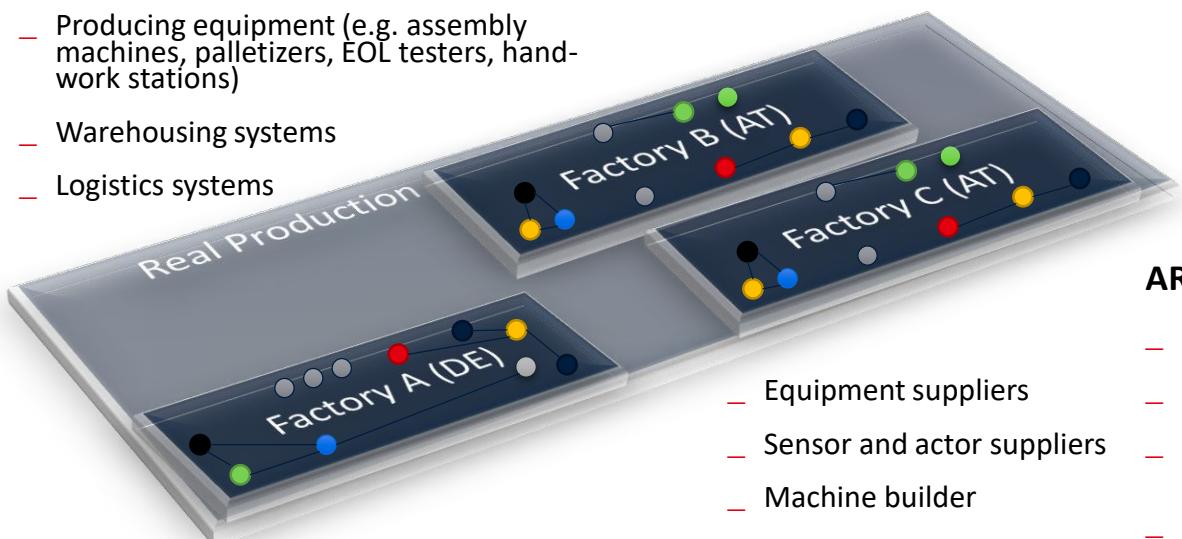


ARGOS Use Cases / Value Propositions

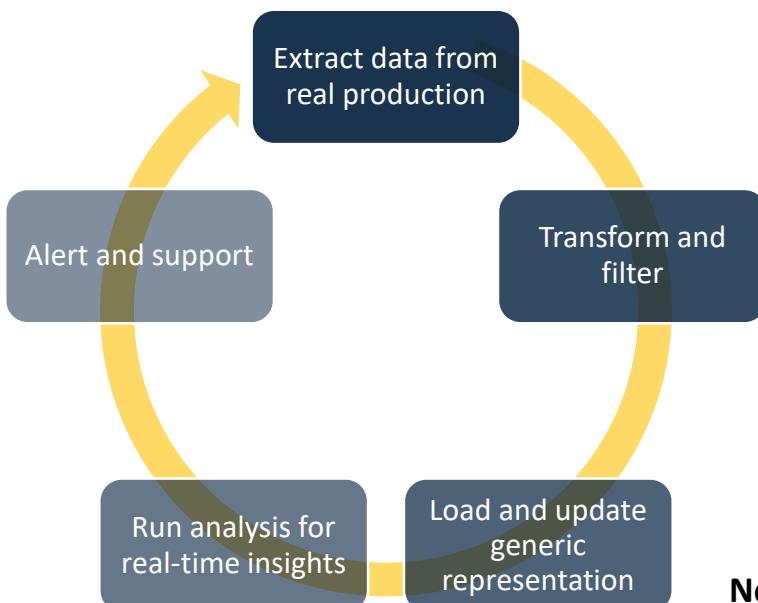
- Benchmarking and standardized comparison
 - production sites
 - production processes with automatic extraction of best practices
 - hardware equipment (e.g. lifetime of robots, maintenance frequencies, quality issues, failures)
- Root cause analysis for e.g. unplanned downtimes, production bottlenecks
- Extract recommendations for
 - production and people planning
 - optimizing equipment productivity
 - retrofits and modernization

Heterogeneous Data Sources for ARGOS

- ERP / MES / QMS
- Producing equipment (e.g. assembly machines, palletizers, EOL testers, hand-work stations)
- Warehousing systems
- Logistics systems



- Equipment suppliers
- Sensor and actor suppliers
- Machine builder



Current ecosystem of partners

FH-W-S

JOANNEUM
RESEARCH

PIA

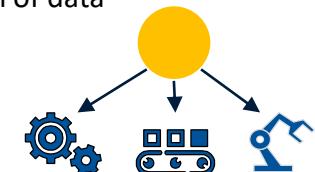
AUTOMATION

ARGOS NFR

- Cyber safe system
- Integration with various European IoT platforms
- Standardized interfacing with ERP / MES / QMS / Production systems
- Flexible and modular software framework

ARGOS Data Lake @ GAIA-X

- Unified and generic representation of factories
 - for a same company
 - across companies
- Generalization of digital twin of production
- Discovery and exploration of data
- Ad-hoc analysis
- Complex analysis
- Reporting
- Real-time analytics



Necessary competencies / partners

- Software integration specialists
- AI specialists in machine learning
- ETL specialists for data transformation and cyber representations
- Industrial partners for use case development and application
- Smart devices provider for e.g. machine conditions monitoring using 5G

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