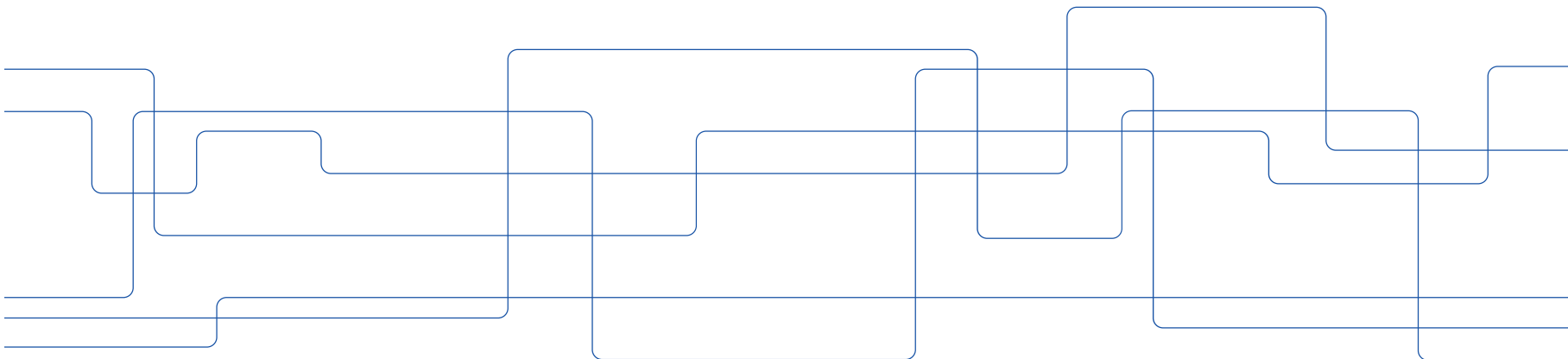


The Logistics Lab KTH Go & see

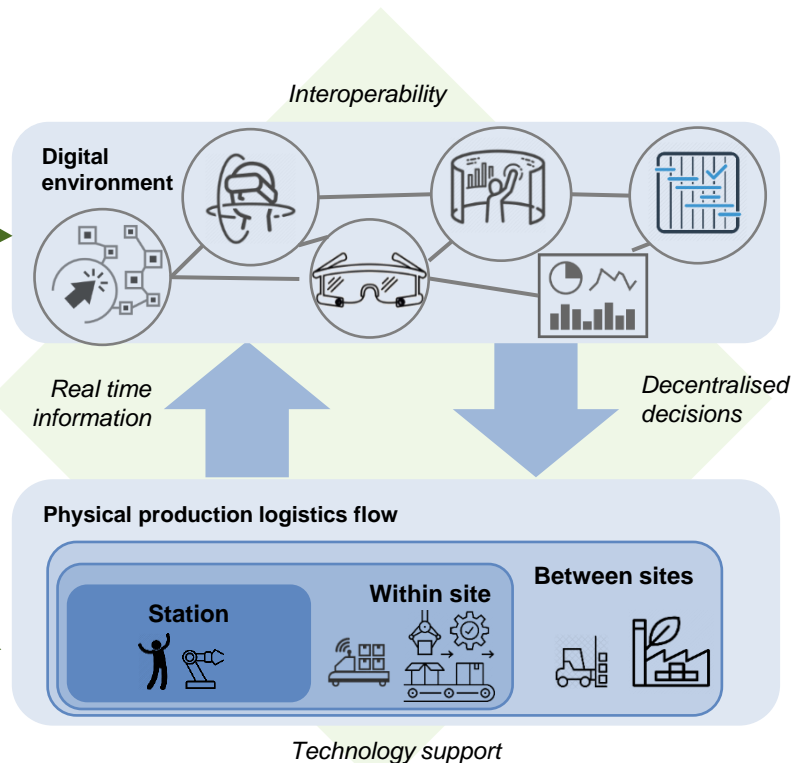
Masoud Zafarzadeh and Jannicke Baalsrud Hauge



The team on Production Logistics focus digitalisation for sustainability

Set of services:
From **visionary simulation** to **real time operative monitoring**

Connected technologies (IIoT)
RTLS, sensors, robots, AGVs, etc



Creating business value in terms of:

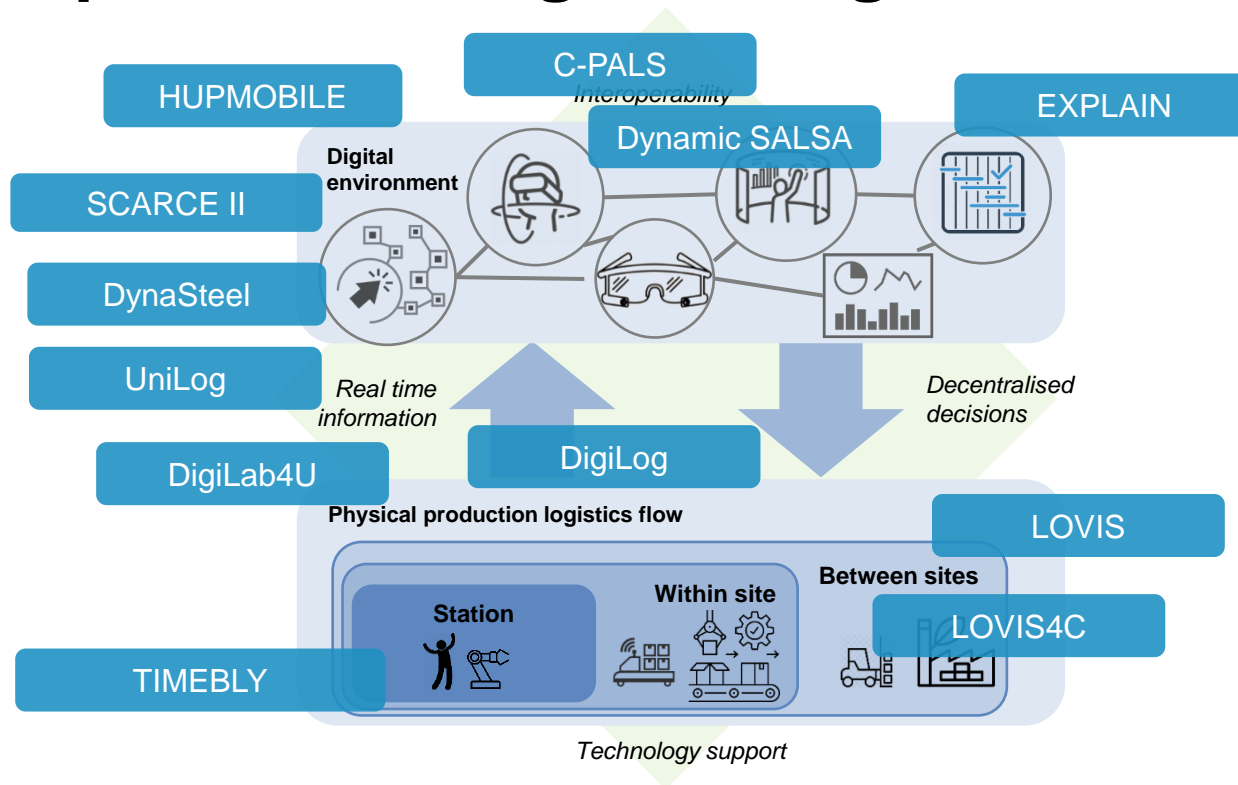
- Increased efficiency, resilience and sustainability
- Enables new sustainable production systems



Research Focus Production Logistics Lab

- Connected production logistics.
- Analytical applications based on digital twins
- Production logistics enabling circularity
- More Information on the lab
 - <https://www.kth.se/sv/ipu/research/production-management-and-logistics>
 - <https://www.kth.se/ipu/infrastructure/labs-at-kth-sodertalje-1.863858>
 - Infrastructure in the Lab
 - AGV MiR200
 - Picking robot UR10e
 - RTLS (Real Time Location System) installation Griffin Enterprise Positioning Services
 - Racks, pallets, and goods
 - Connectivity solution based on wifi/5G
 - Plant service bus solution Apache Kafka and Node-RED
 - KTH Cloud solution
 - Digital environment with Dashboard and VR Unity

Projects built up the platform for production logistics digitalisation



<https://www.kth.se/ipu/research/ongoing-projects>



What will you see today

- Live Automated material handling with AGV
- Live Visualisation of energy consumption in Grafana (Explain)
- Live RTLS
- Digital twin kitting operation and AGV delivery (Movie)
- Live kitting by UR 10

Production Logistics Lab

