

Production of the Future
**Autonomous
Intralogistics**
InSystems Automation



Product evolution



✓ Cooperative Systems



○ Collaborative Systems

2012

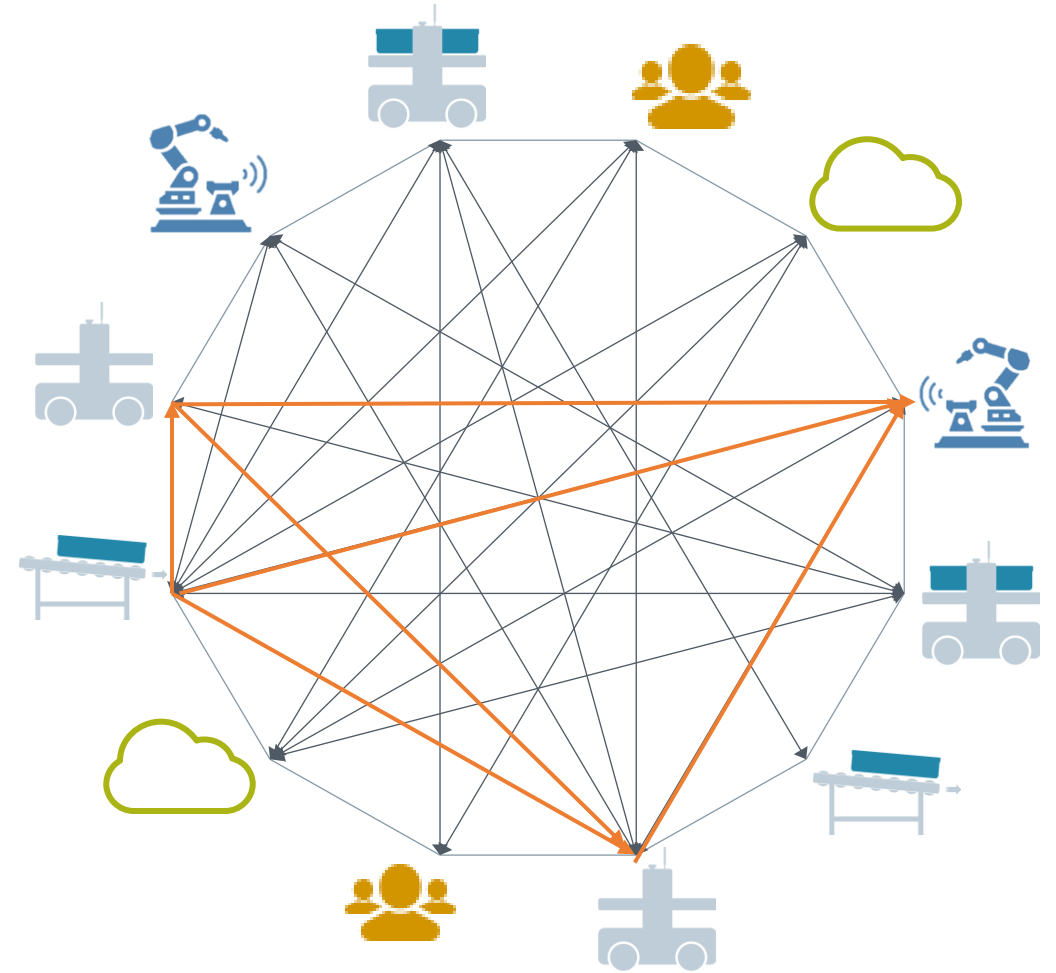
2018



Why do we need collaborative agents?

Less human interference and more autonomous and flexible behavior of the fleet:

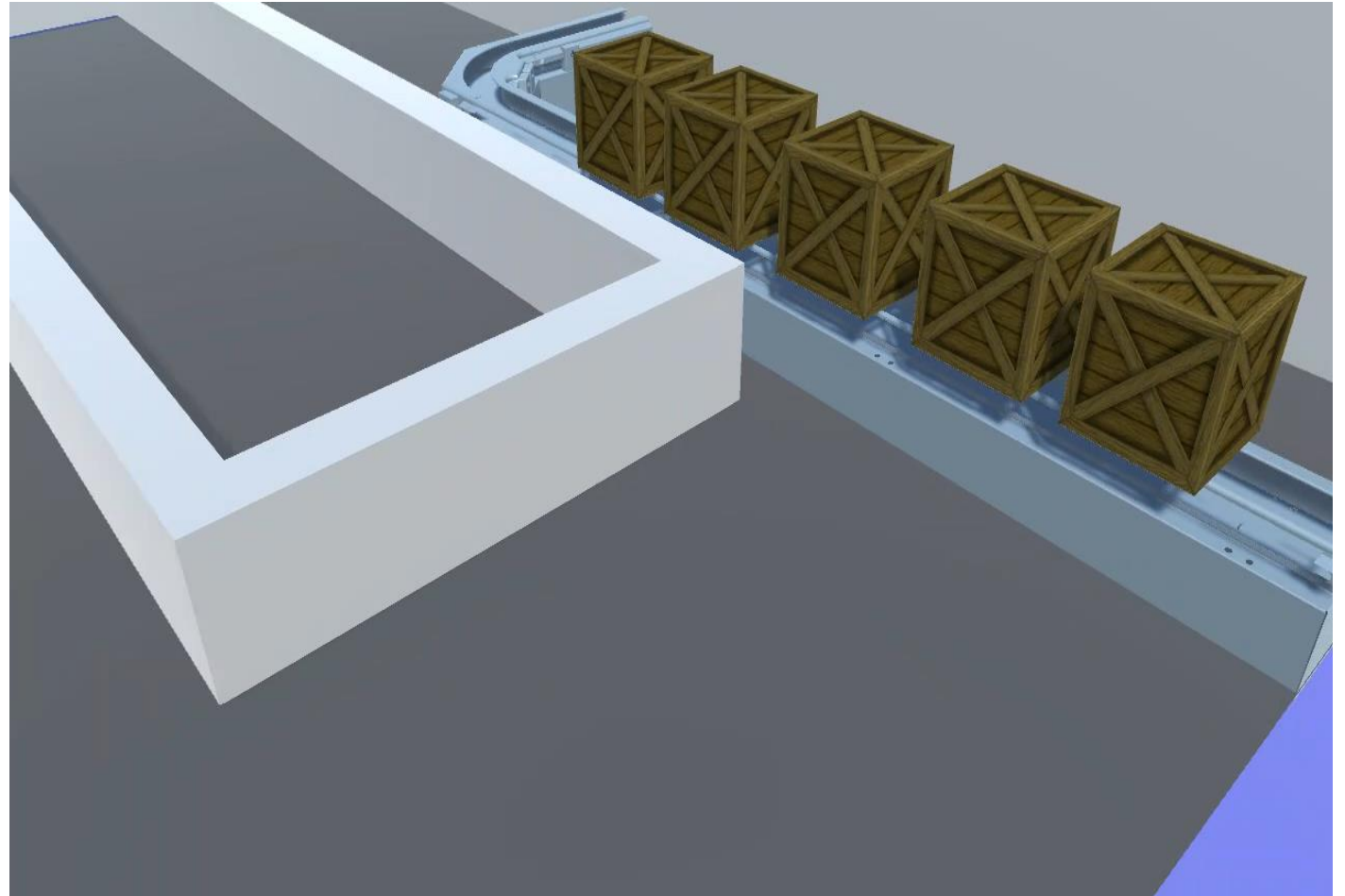
- Plug & play at runtime
- Decentralized fleet management
 - No single point of failure
- Sharing information among the System Group
 - Dynamic Obstacle
 - Status Information (Battery Value, Driven km,...)
- Distributed decision making in the task assignment
- ❖ Form an adaptive IoT System Group



Collaborative fleet of robots

Groups of Robots are capable of:

- Order Assignment via Negotiation
- Exchanging data about their system and the environment
- Consensus about their Environment



Product evolution



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○ Collaborative Systems



○ Self-Organizing & Self-Optimizing systems

2012

2018

2020



Thank You!

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