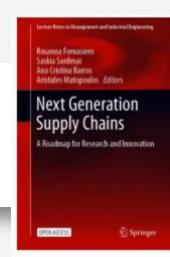






Elena Pessot (Researcher), CNR-STIIMA



Next Generation Supply Chains: A Roadmap for Research and Innovation IPIC 2021 – 8th International Physical Internet Conference 16 June 2021







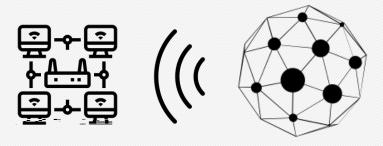
- Exponential increase in connected devices (Accenture, 2020):
  - Internet of Things devices will reach 75.44 billion by 2025 at worldwide level
  - Market for Artificial Intelligence (AI) will grow to \$14.7 billion by 2025
- Digitization can be the next driver of sustained growth for Europe, with €200 billion of additional GDP by 2025 at stake (Digital McKinsey, 2020)
- In a data-driven economy, need to master digital technologies for sharing data for end-to-end visibility and transforming data into value for customers and all SC actors (Digitising European Industry, 2020)







- Entities share real-time information through advanced digital platforms to enable end-to-end visibility and collaborative relationships through a massive data disposal
- Eco-systems where actors from all SC levels are involved in the process of transforming data into value for the whole SC
- Synchronization of interactions between organizations supported by intertwined digital technologies







**RIT.1**: Towards the implementation of a Data-Driven model

**RIT.2**: Platform based SC to support the creation of collaborative ecosystems

**RIT.3**: Future transportation for connected SC

**RIT.4**: Methods and approaches for the traceability and transparency of SC processes

RIT.5: Cybersecurity to enable protection of data in SC

**RIT.6**: New approaches to face increasing uncertainty and complexity







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