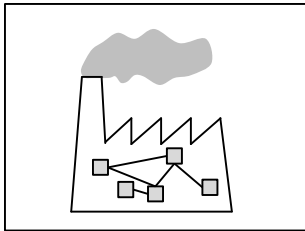
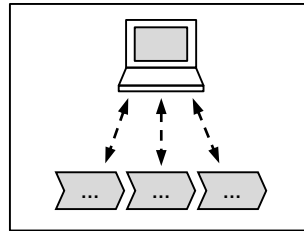


The scope covers ten future digital supply chain scenarios

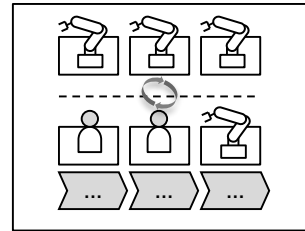
2. Digital Factory Design



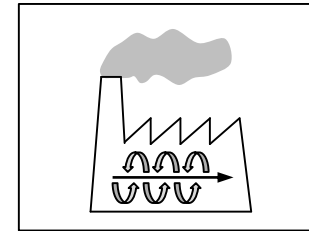
3. Real-time Factory Scheduling



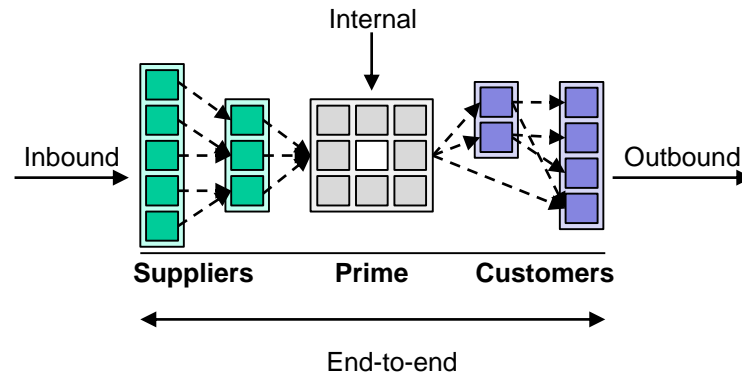
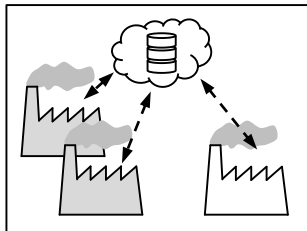
4. Flexible Factory Automation



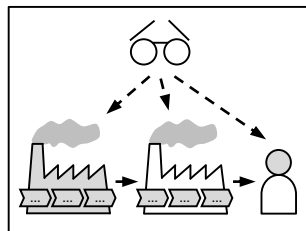
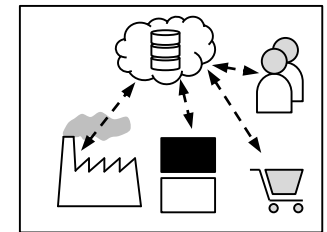
5. Digital Production Processes



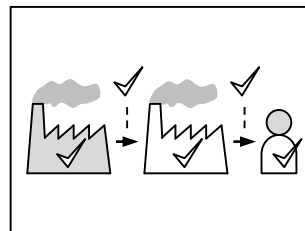
1. Automated e-Sourcing



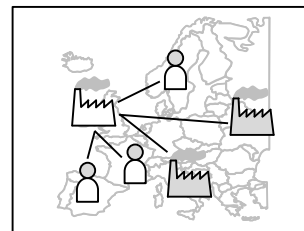
6. e-Commerce Fulfilment



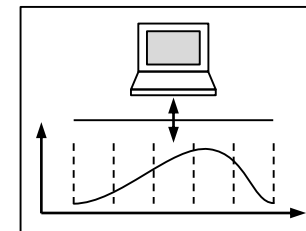
7. Extended Supply Chain (near) real-time Monitoring



8. Digital Product Quality



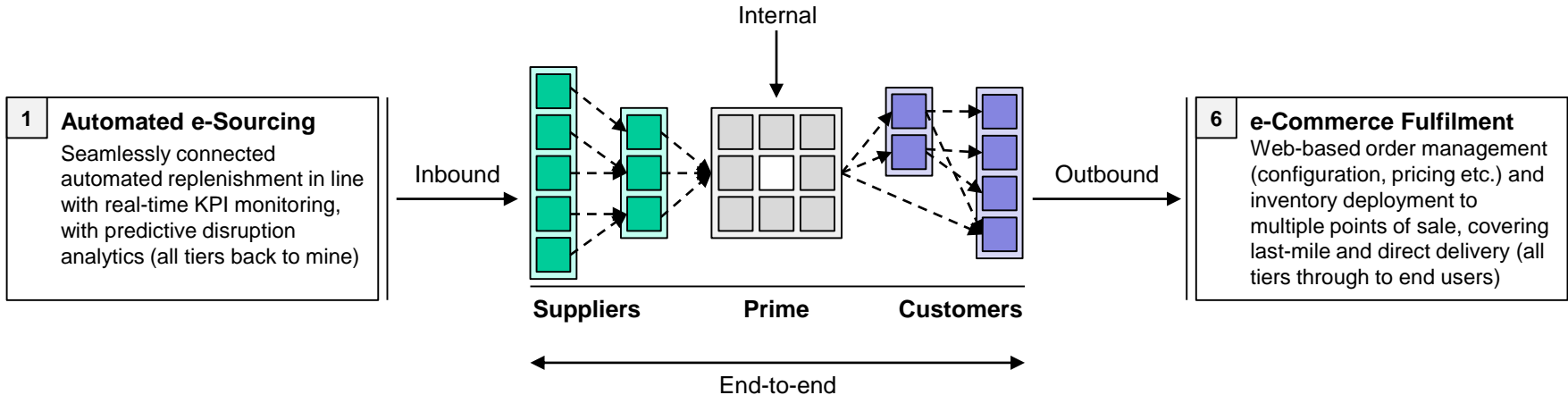
9. Digital Supply Network Design



10. Product Lifecycle Management

Further detail on future digital supply chain scenarios

- 2 Digital Factory Design**
 Digital 3D modelling systems for factory layout design, process and material flow simulation
- 3 Real-time Factory Scheduling** Advanced factory execution systems with sensor-enabled, smart devices, real-time data KPI monitoring, predictive maintenance
- 4 Flexible Factory Automation** Advanced manufacturing plant/machine reconfiguration, scale flexibility, varied levels of human-robot-collaboration
- 5 Digital Production Processes** Application of digital production processes (e.g. additive manufacturing, continuous processing) with advanced process analytics



- 10 Product Lifecycle Management** Nextgen PLM systems that provide accurate, up-to-date product information accessible throughout the value chain and product lifecycle
- 9 Digital Supply Network Design** Design tools to architect supply network configuration – optimisation and visualisation of site location, capacity, inventory etc.
- 8 Digital Product Quality** Digital product quality management systems for connecting 'traceability islands' back from customers to suppliers (root cause analytics)
- 7 Extended Supply Chain (near) real-time Monitoring** Extended 'end-to-end' supply chain visualisation 'watch towers' for near real-time monitoring and decision making