INDUSTRY 4.0 V LOGISTIKE
FÓRUM PRAKTICKEJ LOGISTIKY 2016

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INDUSTRY 4.0

1st: Mechanization, water power, steam power
2nd: Mass production, assembly line, electricity
3rd: Computer and automation
4th: Cyber Physical Systems
INDUSTRY 4.0 IMPACT
BUSINESS

- Mass customization
- Customer cocreation
- Rapid delivery time
- Platforms and standardization
- Pay-by-use
- Data monetization
- Personalized
- Batch size one
- Rapid prototyping
- Monitored life cycle
- Demand prediction
- Design to value
- Real-time optimization
TECHNOLOGY

- Autonomous or Collaborative robots
- Augmented reality
- Sensors everywhere
- Virtualization
- Simulations
- Decentralization
- Self-regulation

- Big Data
- Cloud computing
- Service oriented
- System integration
- Internet of Things
- Interoperability
- Cybersecurity
INDUSTRY 4.0 IMPACT

- Business
- Technology
- Operations
OPERATIONS

- Digital to Physical Transfer
- Machine flexibility
- In site 3D-printing
- Predictive manufacturing

- Digital quality management
- Advanced process control
- Statistical process control

- Intelligent lots
- Real time yield optimization
- Real time supply-chain optimization

- Predictive maintenance
- Remote maintenance
- Virtually guided self-service
INDUSTRY 4.0 IMPACT

Business

Technology

Resources

Operations
RESOURCES

- Human-machine collaboration
- Automation of knowledge work
- Delegation of decision making
- Virtually guided work instructions
- Rapid experimentation and simulation
- Self-learning systems
- Machine flexibility
- Interoperability
- Remote monitoring and control
- Self-regulation
- Product memory
- Intelligent lots
- Precise localization
- Waste-free processes
DISKUSIA

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