Once upon a time…

18th century
Industry 1.0
Mechanical production powered by water and steam

20th century
Industry 2.0
Mass production based on the division of labor and powered by electrical energy

70s
Industry 3.0
Electronics and IT to automatize production further

Today
Industry 4.0
Cyber-physical production systems

Technology progress
Smart devices
The fourth industrial revolution is disrupting the value chain and requiring companies to rethink their way of doing business.

McKinsey
3.0

Static production line: hard to reconfigure
Very difficult to incorporate individual customer requests

4.0

Dynamic production line, dynamic reconfiguration
Smart products move autonomously from one workstation to another

Interactive dialogue
Today’s Cutting Room Limits

- Uncorrelated and intermittent processes
- "Paper" static data
- Sequential activities
- Poor visibility on real-time status from indicators
- Manual and time-consuming reporting
- Root causes difficult to identify
- Theory never meets reality
- Lack of traceability on events

One way information

Order Management → Cut Preparation → Cut Execution
Fashion enters the digital, integrated manufacturing era

- Mass production
- Mass customization
- Agile production
- Made to measure

- Profitable, large-scale personalized production
- Possibility of mixed business models
- Increased operational efficiency
- Overall transparency
- Automation of non value-added tasks

Apparel factories at the heart of the value chain
Industry 4.0 will Bring Many Benefits for Manufacturers

- **10 - 40%** reduction of maintenance costs
- **Productivity increase by 3 - 5%**
- **20 - 50%** reduction in time to market
- Forecasting accuracy increased to **85%**
- **Costs for quality reduced by 10 - 20%**
- **Costs for inventory holding decreased by 20 - 50%**
- **30 - 50%** reduction of total machine downtime
- **45 - 55%** increase of productivity in technical professions through automation of knowledge work
Industry 4.0 Challenges

- Data collection and analytics
- Agile mindset
- New competencies and skills
- Hyper connectivity between people, processes, technology
- Industry 4.0-compliant technology
Pioneer of the Industrial IoT since 2007

Vector connected since 2007!
- 100+ embedded sensors!

Permanent monitoring via secure remote connection
Lectra Smart Services a direct link to Lectra Experts
A Leap Forward in Innovation

- “Simplexity”
- Intelligence Made Visible
- Performance
- Environmentally friendly
- Safety
Industry’s Requests

- **Reduce production costs**
  - Generate material savings
  - Optimize material management (fabric rolls, leather hides)
  - Optimize running & fixed cost

- **Measure, improve and sustain operational performance**
  - Increase performance awareness as OEE: cutting system availability, quality, productivity
  - Guaranteed capacity
  - Eliminate non-added value operations

- **Improve processes**
  - Manage the complexity of production processes
  - Improve lead-time, traceability, visibility,
  - Connect solutions to information systems

COSTS
Cutting Room 4.0 connects offices and shop floor.
EFFICIENCY, PRODUCTIVITY AND SPEED
INCREASE REVENUE
REDUCE INVENTORY
Thank you!

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