




Innovations & Development

- No longer mere fantasy
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- 9th Asian Textile Conference Rieter India 14th March

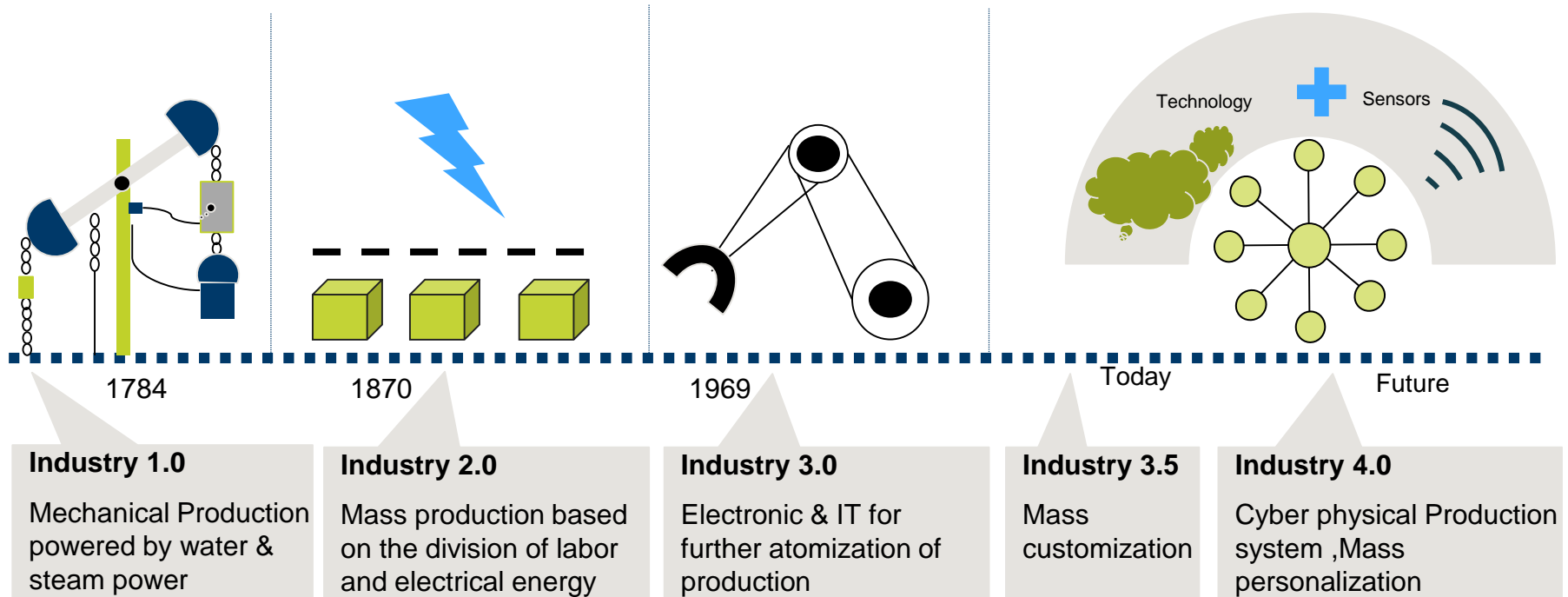
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- **What is Industry 4.0 ?**
 - **Core elements**
 - **Human & Automation**
 - **A Spinning set up**
 - **Possibilities and idea**
 - **Rieter offering**

What is Industry 4.0

Industry 4 is the latest stage of industrial development

“The virtual IT world and the real life manufacturing world are growing ever closer together. Using Cyber Physical Systems and the internet to connect humans, machines and software many experts see the first step towards the fourth industrial revolution”
Prof. Dr. Dr. Wolfgang Wahlster, (DFKI)

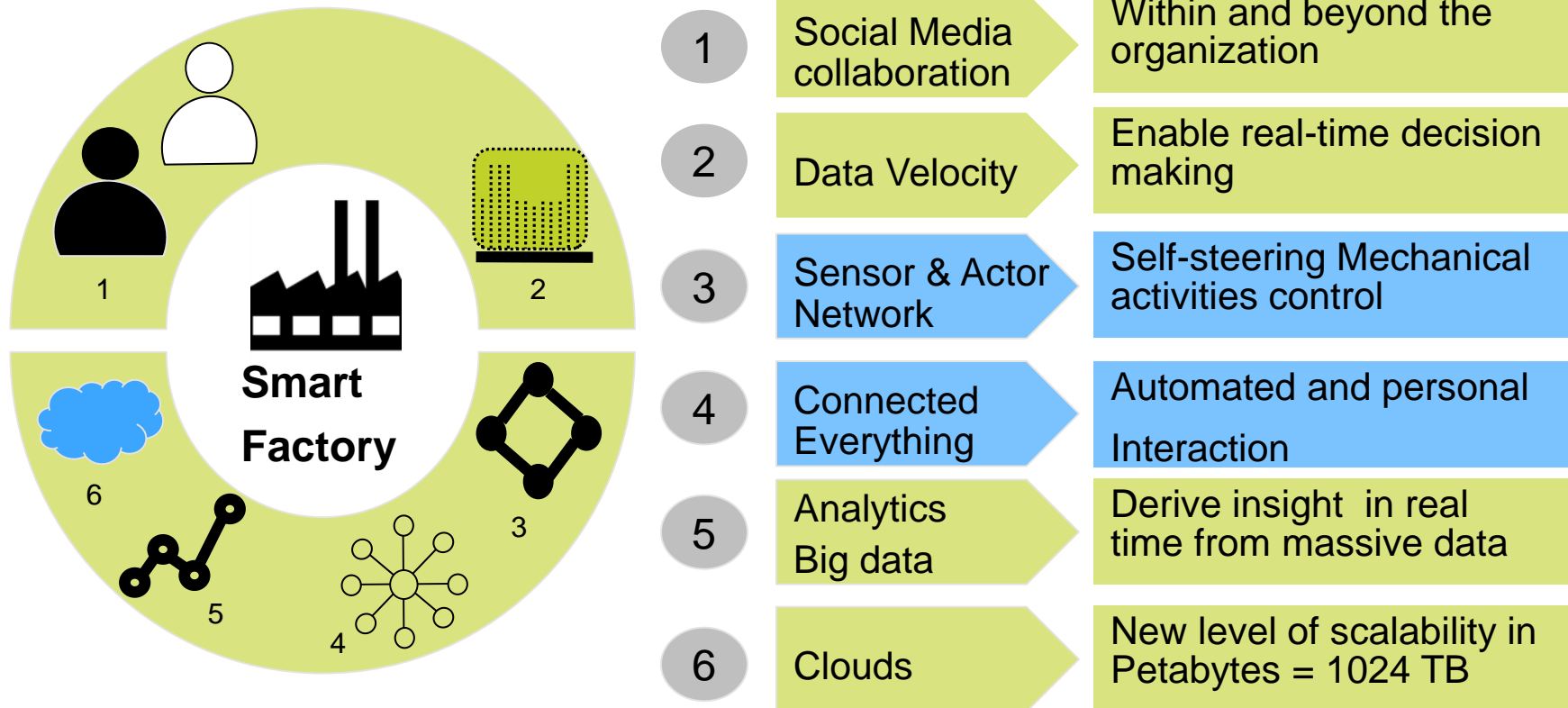
Physical System + Cyber System = Cyber Physical System



Link : <https://www.youtube.com/watch?v=HPRURtORnis>

Core Element of Industry 4.0

Intelligent system ,communicating with each other via IoT →M2M



Cyber Physical System → Integrating the Physical and Digital World

Industry 4.0 :-Human and Automation

Humans will be supported , not replaced

Requirements from markets are increasing

Humans will always remain necessary in production

The necessary flexibility is only feasible through human interaction

The degree of automation is increasing



Fully automated systems cannot keep pace with market requirements

Automation becomes more flexible

Automation will relieve and support workers

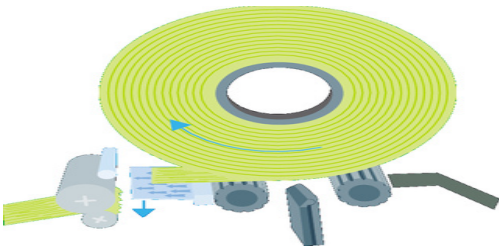
Source : FORCAM

Types of automation in spinning mills

Machine Automation



Constant Sliver Quality
Unique IGS and IGS top feature

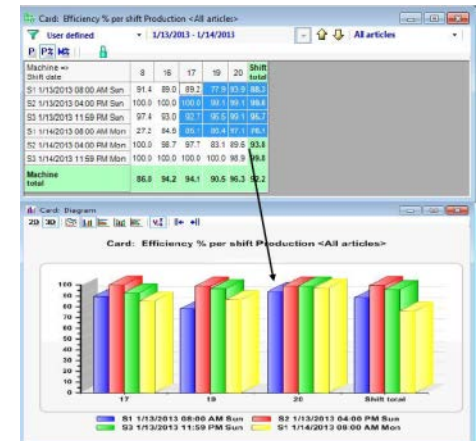


Rieter Varn Cleaner

Transport Automation



Process Automation



Digital Manufacturing turn to Smart Mill System



Digitalization will address and solve main issues of our customers

Customer issues today

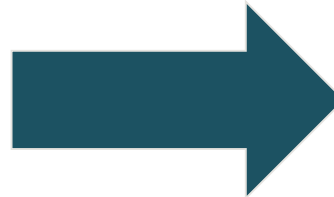
“We need to deliver the same **quality of yarn**”

“We face **high and variable energy cost**”

“We face a **lack of manpower**”

“We face **production issues** when changing yarn lots ”

“We are not running on Rieter’s **efficiency** no.”



Future

Track & trace platforms to ensure same level of yarn quality

AutoEnergy planning to control & optimize cost

Auto Maintenance system incl. instructions for low skilled staff

Settings manager to ensure lot change without loss of production

Smart Monitoring & controlling to ensure we operate on high efficiency

Customer demand for a new digital manufacturing system

Smart Spinning Mill



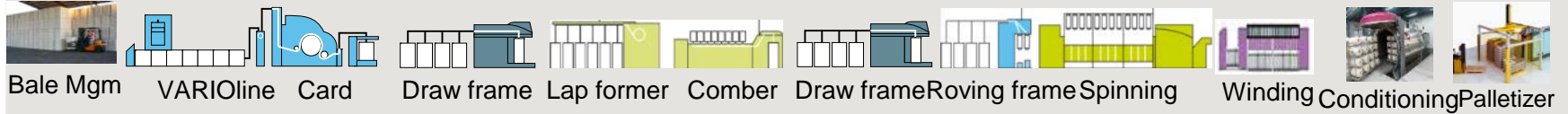
Stock Planning



Interest & Overhead



Yarn Inventory



Filter station



Compressor



Power



Quality

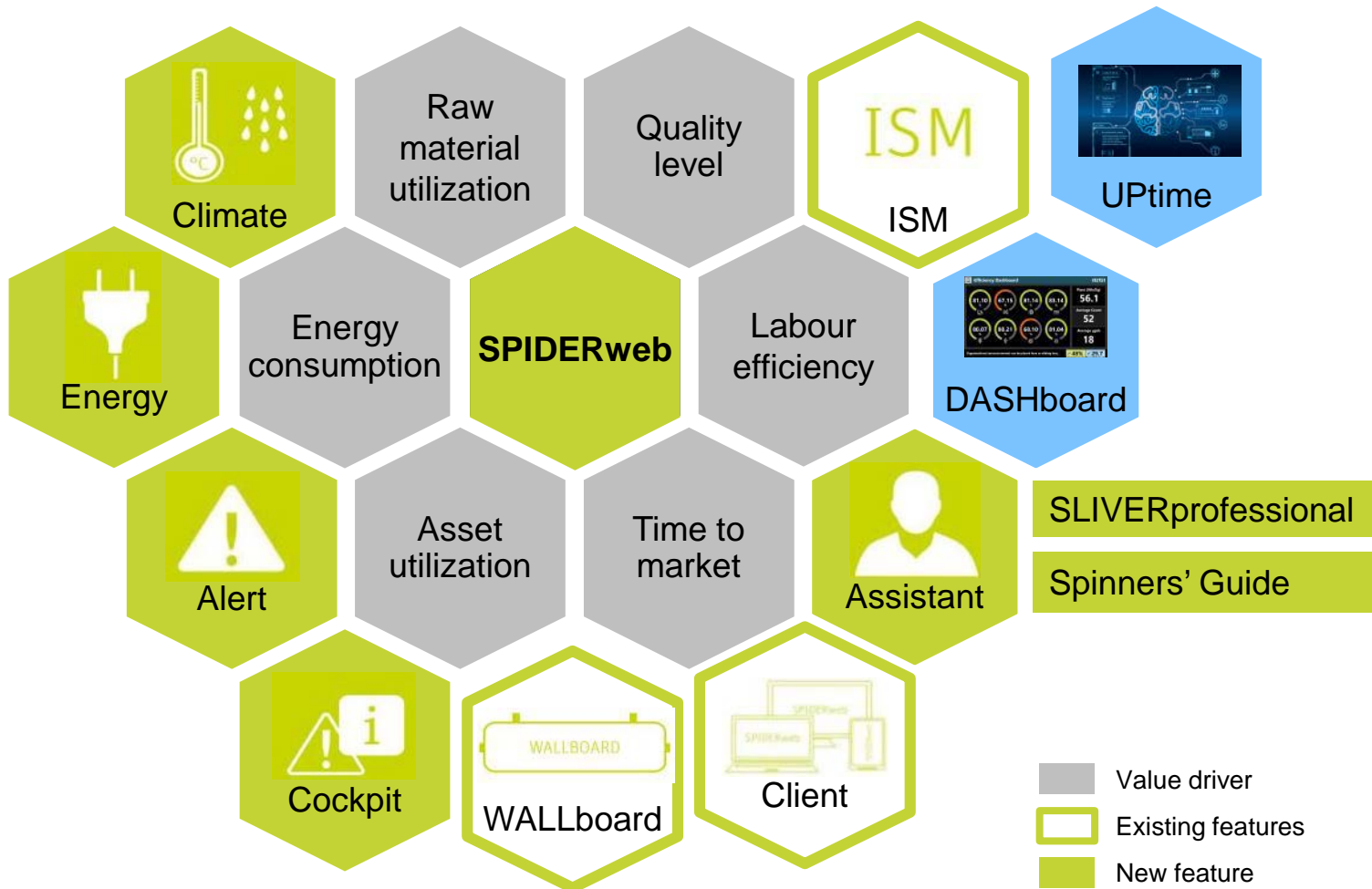


Labor



Spare parts

New features for competitive spinning





Rieter Alert and Cockpit Module

Real-Time Mill Performance Monitoring

The Comfort of Competence

RIETER



**Settle back and relax –
thanks to Rieter**

Thank You...!