

# Rieter Group



**RIETER**

Swiss Textile Machinery Press Conference, Shanghai 16 October 2018



# Digitization in the Spinning Industry

## Content

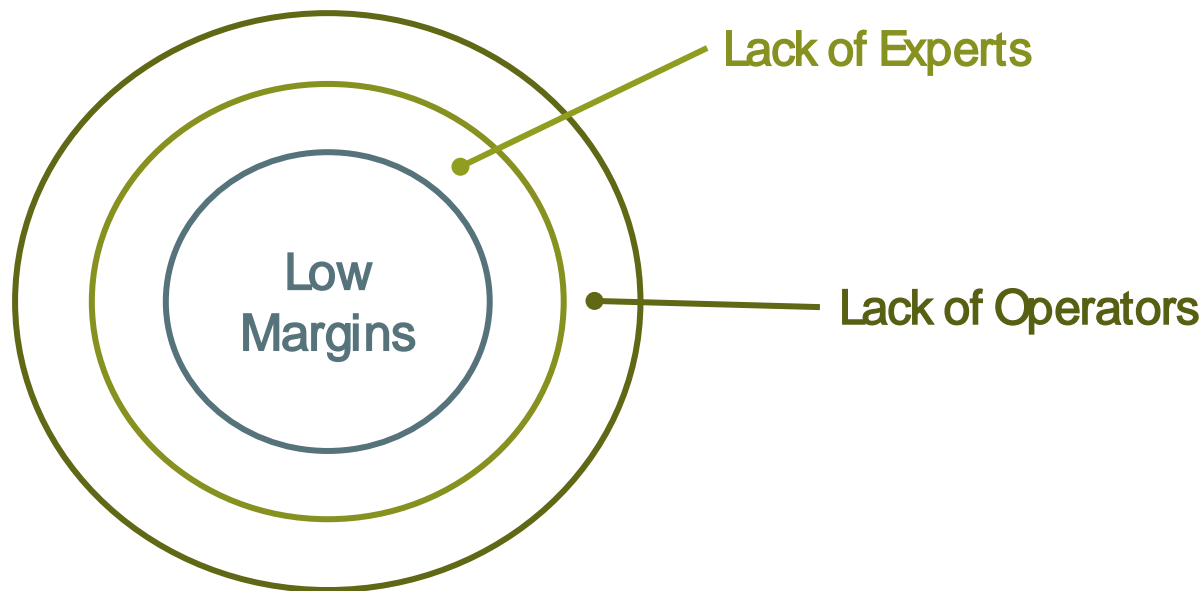
1. Technologies
2. Benefits
3. Example: UPtime
4. Challenges
5. Way forward

# 1. Technologies

- Global network
- Central Processing Unit and storage capacity & cost
- Sensor/ identification technology
- Data analytics
- Mobile/ wireless communication
- Machine learning

## 2. Benefits

### Spinners' Needs



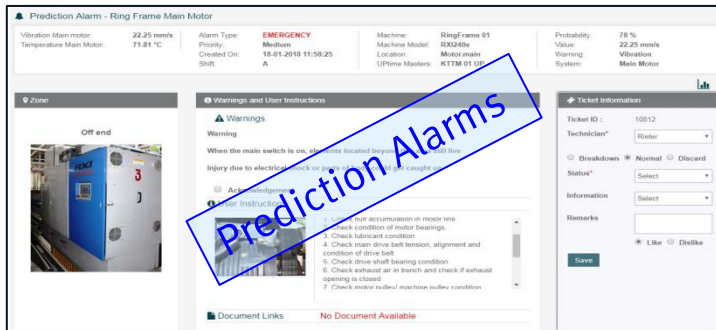
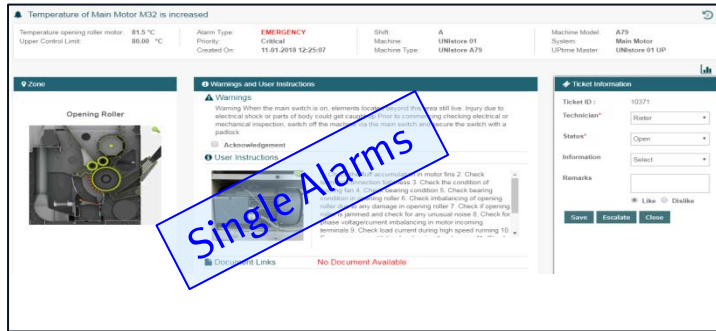
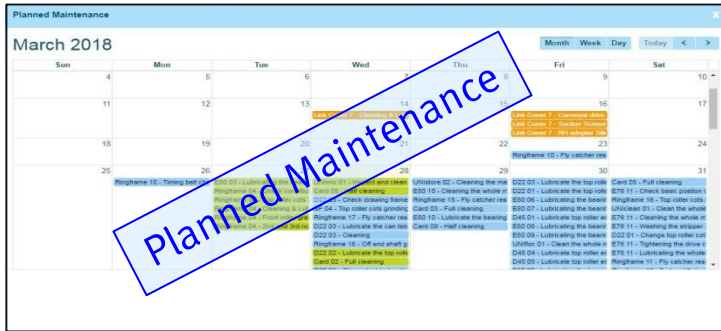
### 3. Example: UPtime (1)



“UPtime is a step towards Industry 4.0. Nowadays, it gets difficult to find skilled people on whom we can rely for maintenance. Thanks to UPtime, we can keep a record of machine history, avoid production loss and reduce maintenance costs due to failing components thanks to a preventive maintenance approach.”

Arun Mohta, owner of Pee Vee Textile

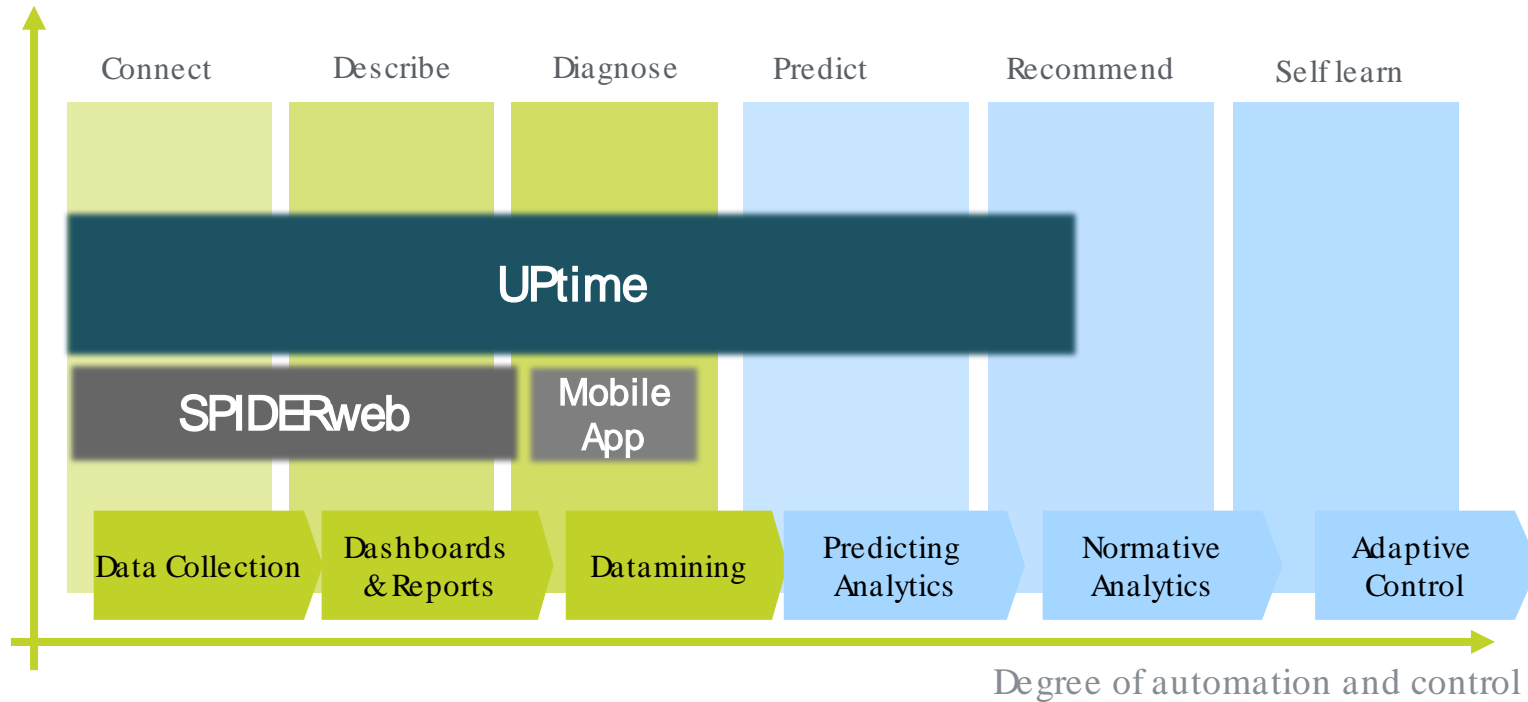
### 3. Example: UPtime (2)



## 4. Challenges

- Lots of talking – identify true benefits, make it work
- Data sharing
- Data security
- Make industry experts work with digitization experts
- “Digital” working mode

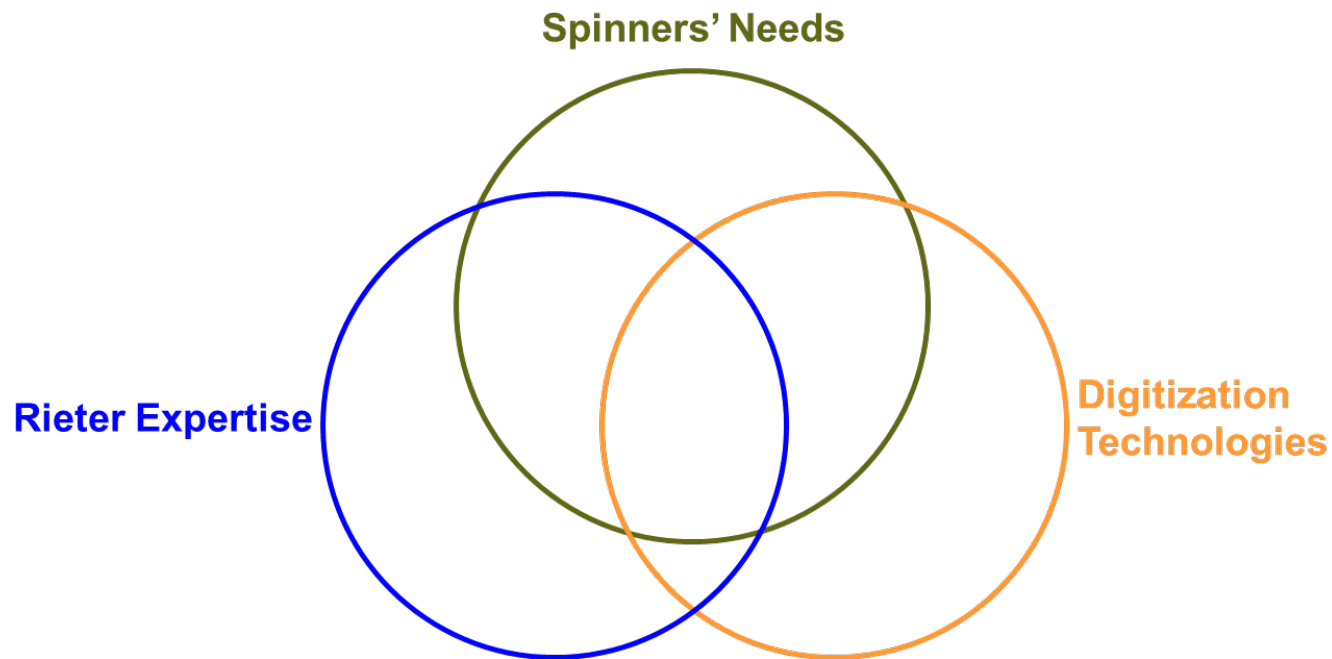
## 5. Way forward (1)



Source: Empolis: with reference to Gartner Predictive Analytics / PAC Reifegradmodell Industrie 4.0 / IIoT



## 5. Way forward (2)



## 5. Way forward (3)



**RIETER**

Swiss Textile Machinery Press Conference, Shanghai 16 October 2018



# Advantages of Rieter Systems Solutions

Rieter systems support spinners in building a successful and prosperous business.

Exhibits shown are:

- Air-Jet Spinning System J26
- Compact-Spinning System K47
- Ring Spinning System G32
- Semi-automated Rotor Spinning System R36



# Draw Frame RSB-D 26

- Autoleveler draw frame RSB-D26 impresses due to superior sliver quality, low production costs and easy operation and maintenance.
- Depending on the raw material, it produces up to 33% more sliver compared to the previous model.



# Rieter Components



# Business Group Components Product Portfolio

**Components for  
ring spinning**



**Components for  
spinning  
preparation**



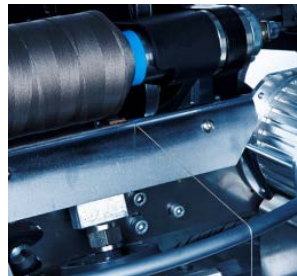
**Spindles and  
spindle bearings**



**Winding solutions**



**Components for  
ring, compact, rotor,  
airjet spinning**



# Bräcker AG

## Bräcker

# Benefit: Highest speed with best values of yarn

- 10%-20% higher traveller speeds at same yarn quality compared to T-flange ring and C-Shaped travellers
- Special surface treatment allows higher speed (up to 1 000 RPM), longer service life (up to 50%) and reduced running-in time (up to 50%)

Traveller at a moderate speed of e.g. 34 m/sec (=124 km/h)  
Distance after 12 days (avg. lifetime of a traveller): 35 000 km



## redORBIT/ORBIT

Improved heat dissipation enables higher spindle speed



## ONYX

Especially recommended for cotton compact and non compact; MMF



# Graf + Cie AG

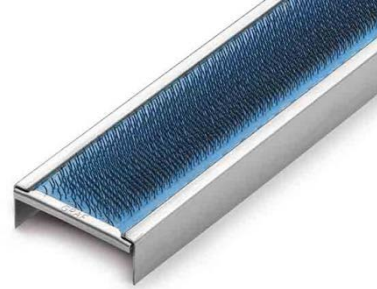
A large, blue, stylized script logo of the word 'Graf'. The letters are thick and fluid, with a prominent 'G' and a long, sweeping tail on the 'f'.

Swiss Textile Machinery Press Conference, Shanghai 16 October 2018



# Benefit: Highest production and best raw material yield

- Successful application for production rates of 150 – 250 kg/h and service life of up to 1 500 t
- Ri-Q-Comb flex, the innovative circular comb series with adjustable height for up to 20% lower imperfections and up to 1% less comb noils



Resist-O-top

Flexible flat for the processing of the whole range of short staple fibers



Ri-Q-Comb flex

Developed for combers of the latest generation.

Novibra Boskovic s.r.o.

**Novibra**

# Benefit: Highest speed and lowest energy consumption

- Energy saving spindle recommended for high speed above 18 000 RPM and counts Ne30 and finer
- Energy saving in the average of 4 - 6% thanks to reduced wharve dia and lesser friction of smaller bearings
- Optional CROCOdoff and AVlock



## LENA

The only spindle with 17,5mm wharve dia on the market

# SSM SCHÄRER SCHWEITER METTLER AG



Swiss Textile Machinery Press Conference, Shanghai 16 October 2018



# Benefit: Flexible production and lowest energy consumption

- Energy efficient drum winder (down to 35 watt, depending on settings)
- Featuring a new developed and single controlled BLDC drive
- SSM *ClassicWind*™ drum
- Reliable and durable magnetic disc tensioning device
- Also available as CWX-D for doubling



## Drum winder CWX-W

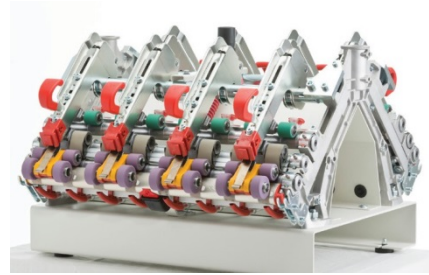
The new energy efficient drum winder for cones used in the weaving, warp knitting and circular knitting process.

# Spindelfabrik Suesse n GmbH



# Benefit: Versatile production and lowest maintenance cost

- New geometry of the compacting zone
- Lattice apron 5star®BLimproving wear resistance up to 20% hence longer lifetime and single suction tube type Pelican for less choking and easy cleaning
- Increased lifetime of EliTop cots up to 100% and reducing handling in buffing and workshop up to 50%
- EliSpring reducing end breaks up to 50%



## New EiTe®

Innovative components further boosting productivity, yarn quality and cost reduction in maintenance