

ISRA
VISION

Process optimisation
based on quality data
for the tissue industry



Andrea Friedrich

- serving the surface inspection industry for over 30 years
- different account and sales management roles
- background in engineering
- makes sure that ISRA customers meet or exceed their expectations since 21 years

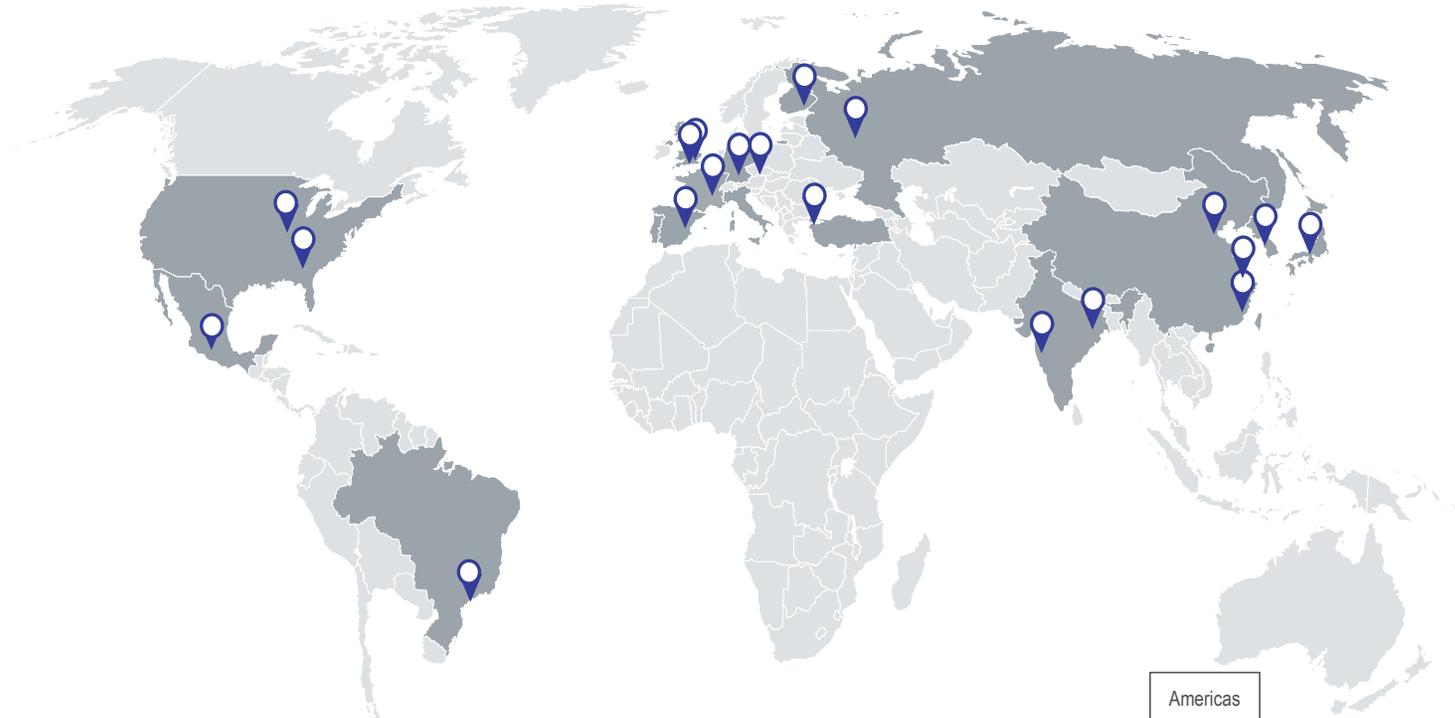
Today's topics

- Web Inspection Systems - WIS
- Web Break Monitoring - WBM
- WIS – WBM Coupling
- Tissue Converting Control System
- Paper Quality Management System - PaperQMS

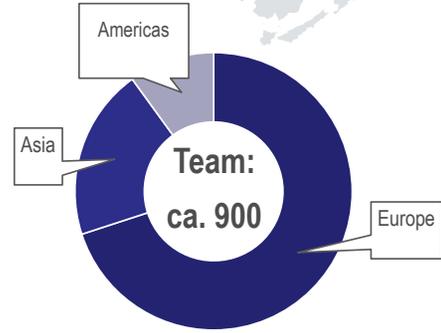
More than 30 years experience and still setting new standards...



ISRA worldwide

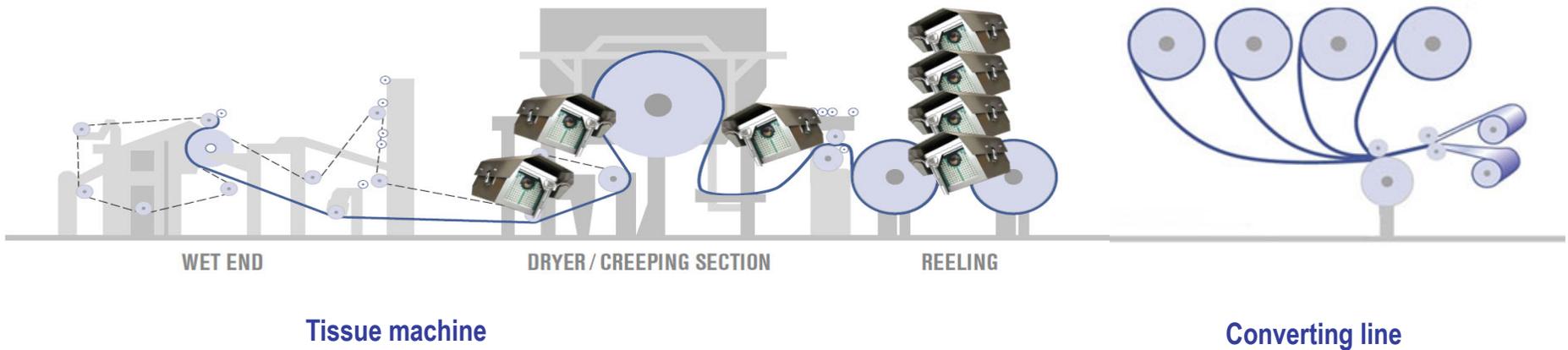


- Germany, Darmstadt (Headquarters)
- UK
- Spain
- USA
- China
- Finland
- Benelux
- Mexico
- Korea
- France
- Russia
- Japan
- Italy
- Turkey
- Brazil
- Taiwan
- India

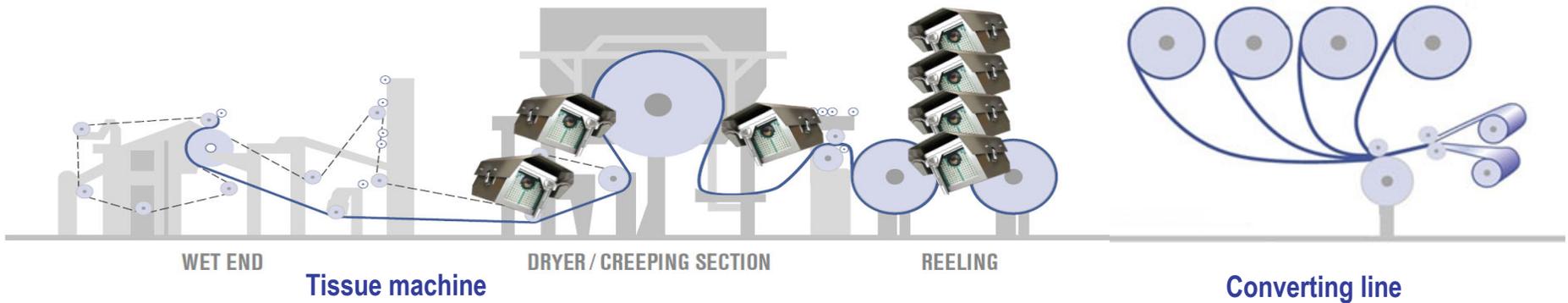


Goal: avoid costly web breaks at converting line

- ➔ Significant reduction of web breaks in roll handling
- ➔ Massive cost savings through minimal downtime
- ➔ A contribution to reduce your carbon footprint



Web Monitoring, Inspection & Process Optimization



Web Break & Monitoring

- ➔ Process monitoring and root cause analyses
- ➔ Best image quality in the market
- ➔ Lowest operational costs

Web Inspection System

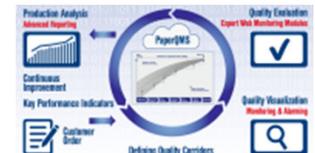
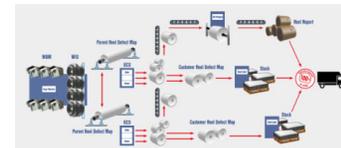
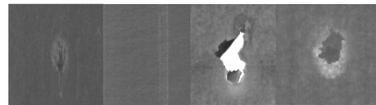
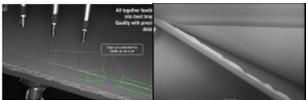
- ➔ Quality and process control
- ➔ Fastest cameras in the market
- ➔ Most reliable classification
- ➔ Color inspection technology

Middle cut inspection / Customer Roll Defect Report

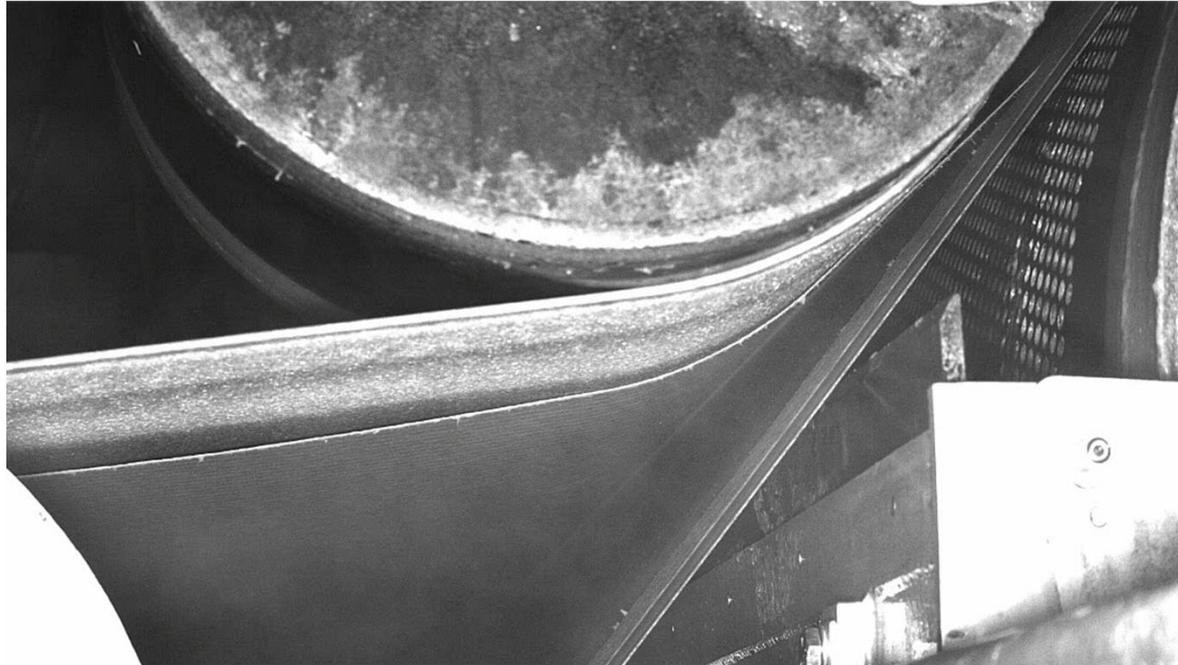
- ➔ Automatic tracking of cut positions
- ➔ Monitoring of cut width: alarming (defect) if too large, too small or not present
- ➔ Cut positions announced via telegram, set via parameters or manual input (under dev)
- ➔ ODIS displays mother reel with cut positions
- ➔ CRDR is used to display daughter reels

Paper Quality Management System

- ➔ Position correct defect synchronisation throughout the further process
- ➔ Exact reel reports

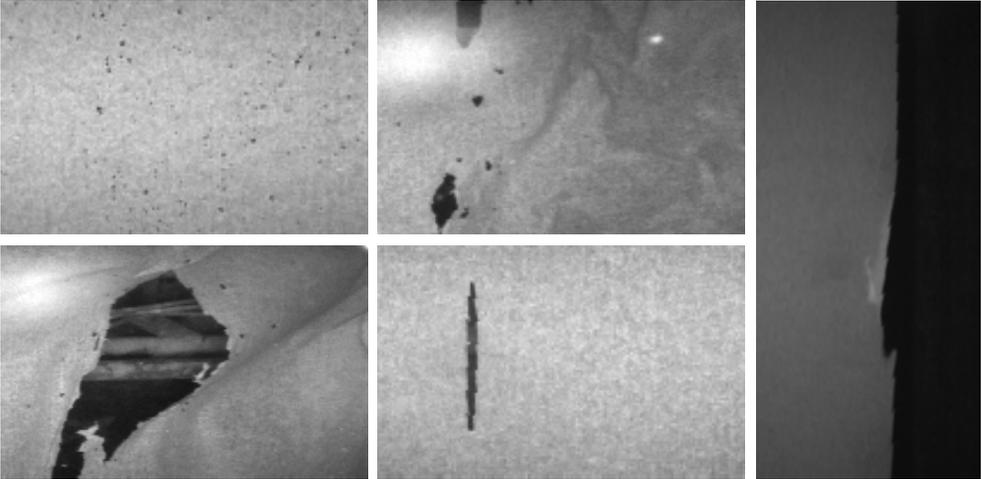


- ➔ **Providing best Image Quality in the harshest environments**
- ➔ **Save Costs with early recognition of process disturbances**

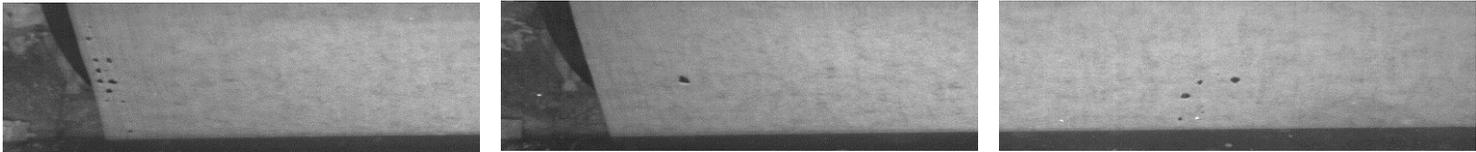


Hole nests

Edge cracks

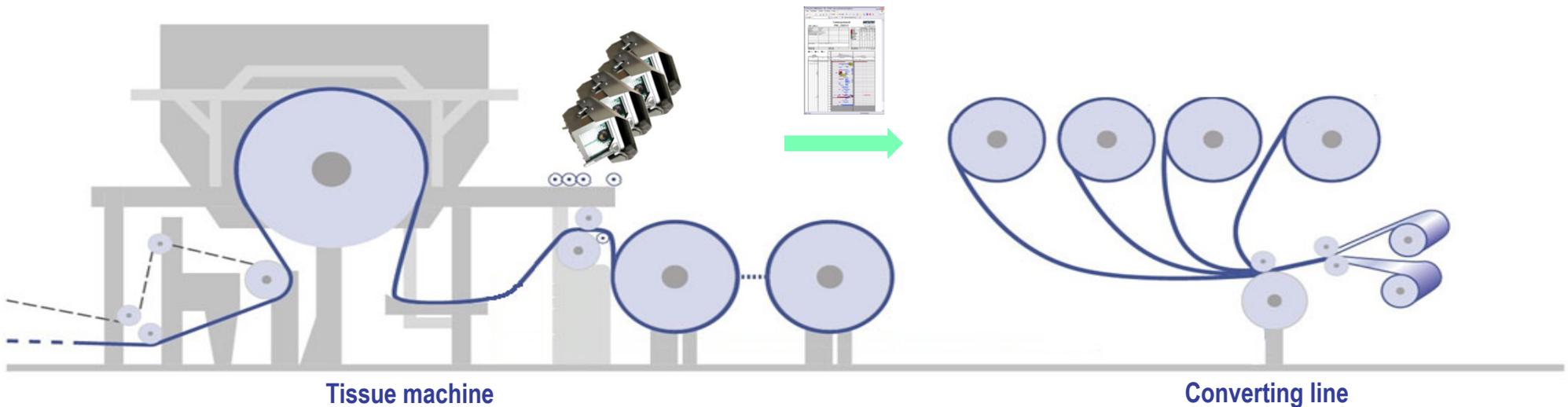


holes



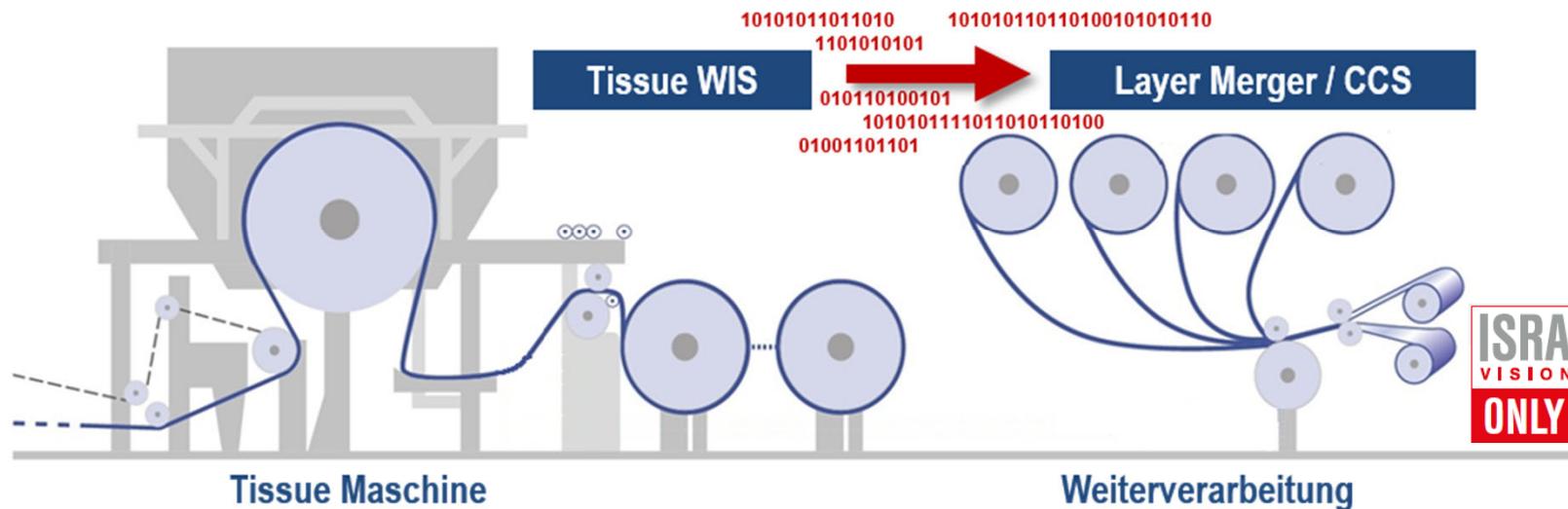
Reduce Costs related to web breaks during Tissue Converting

No web breaks in Converting related to process critical defects from the Tissue machine



- **Reliable detection of process critical defects with the PAPER MASTER 4.0 at the Tissue machine**
- **Middle-cut inspection with double width Tissue machines**
- **Accurate defect logs of the rolls completed at the Tissue machine**

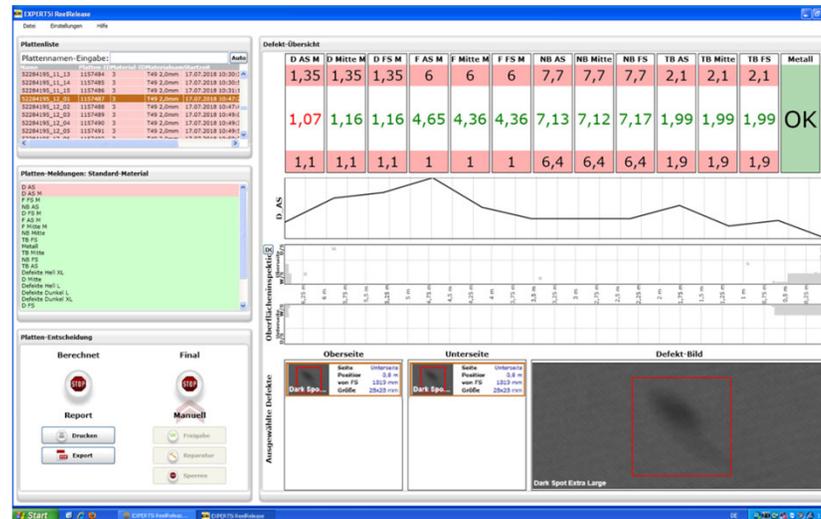
Cost reduction by preventing web breaks in converting



- The Layer Merger merges the roll protocols for each individual layer
- The Converting Control System controls the speed of the converting line
- No web breaks in converting related to process-critical defects coming from the Tissue machine

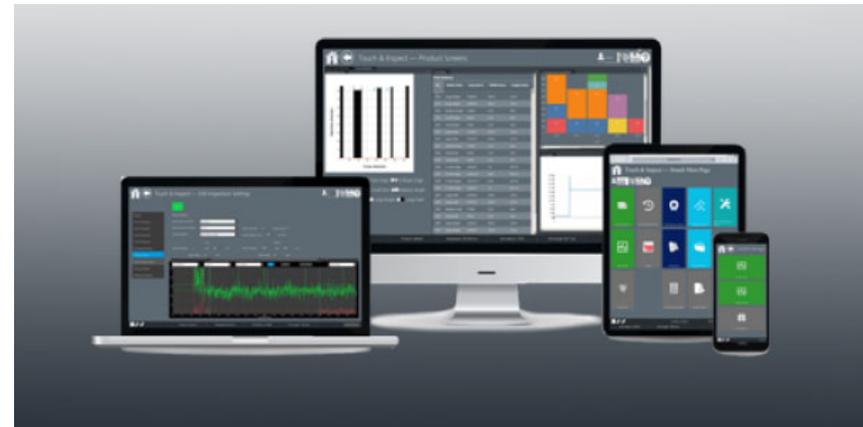
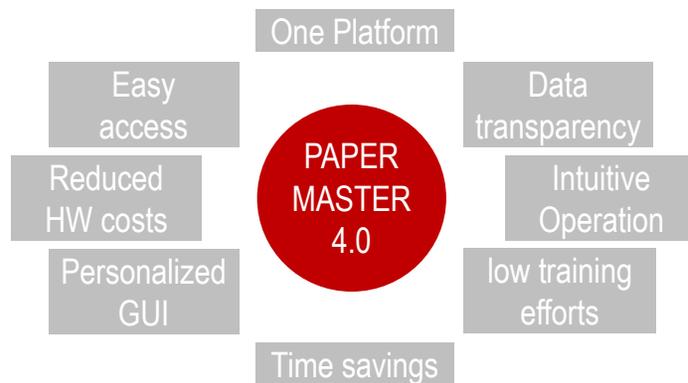
Automated quality evaluation of each individual Roll

Cost optimization through quality assessment of each Roll



- Automated quality assessment of each Roll
- Integration of data from third-party sources (moisture, weight per unit area, formation, ...)
- Individual parameterizable evaluation rules

First browser based platform for web quality and process analysis



- **Global Data Access**
- **One browser based Platform**
- **Access with Smartphone, Tablet or conventional PC's**





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Thank you for your attention