Keynote #3

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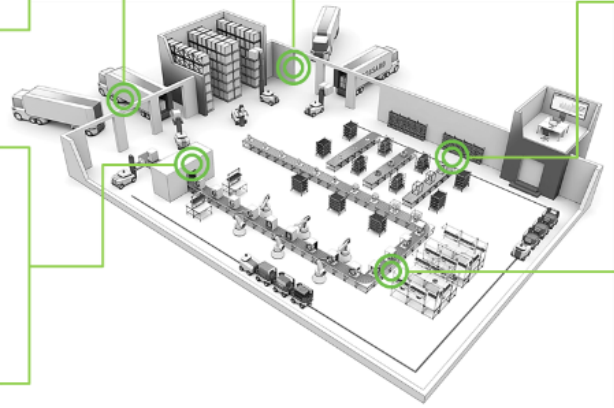
Keynote #3 | Invest in Digital

Elevate your operations as driver for competitive advantage

The smart factory represents a leap forward to a fully connected and flexible system

TRANSPARENT
- Real-time data visualization
- Role-based views
- Real-time alerts and notifications
- Real-time tracking and monitoring

PROACTIVE
- Process anomaly detection
- Automated replenishment
- Predictive quality detection
- Real-time safety monitoring



EFFICIENT
- Automated workflows
- Un-scheduled moved to scheduled
- Synchronization of assets
- Optimized energy consumption

CONNECTED
- Assets outfitted with smart sensors
- Integration with suppliers and customers (sensor and data)
- Integrated data model between operational and business systems

AGILE
- Rapid simulation and decision making
- Schedule changes in real-time
- Quick changeovers
- Flexible scheduling

A Smart Factory focuses on:

Yield benefits from different **IoT** technologies:

- Create **actionable** insights
- **Simplify** processes
- Enable **proactivity** within the factory
- **Increase quality** of the plant

McLaren APPLIED TECHNOLOGIES | Deloitte.

McClaren Applied Technologies and Deloitte are collaborating to build **data-driven business products** through the use of sensors, simulation and analytics.

Key Outcomes

- **Improving** scheduling, traffic congestion and accident response time
- **Raising** quality and compliance in manufacturing supply chains

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Hendrik Decock

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(BE-NE-FR-IT-ES)

Passionate about

Creating a futureproof production factory within the European "Bread Valley"

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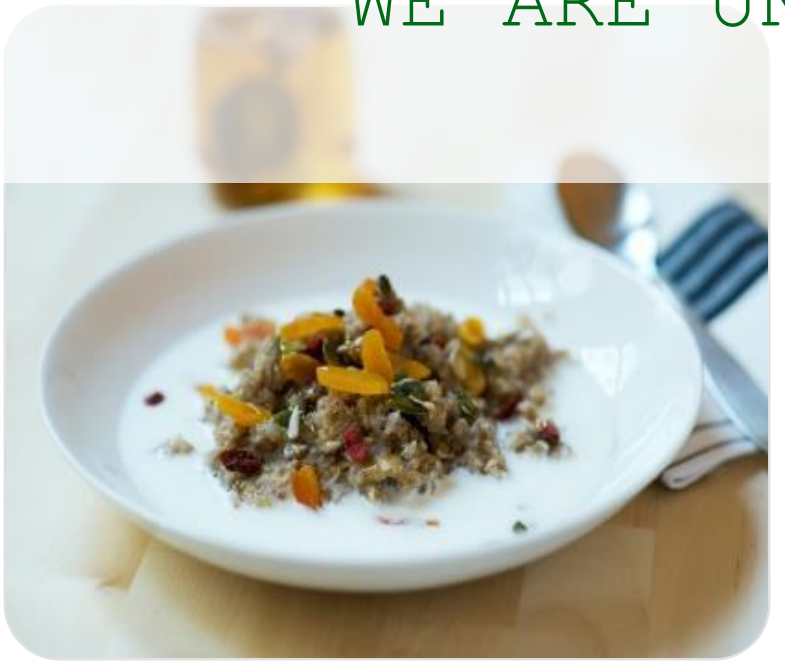
Lantmännen Unibake

Factory of the future roadshow

April 24th 2018

”
Our Brand Promise:
Together we take responsibility from field to fork

WE ARE UNIQUE IN SEVERAL SEGMENTS



Lantmännen

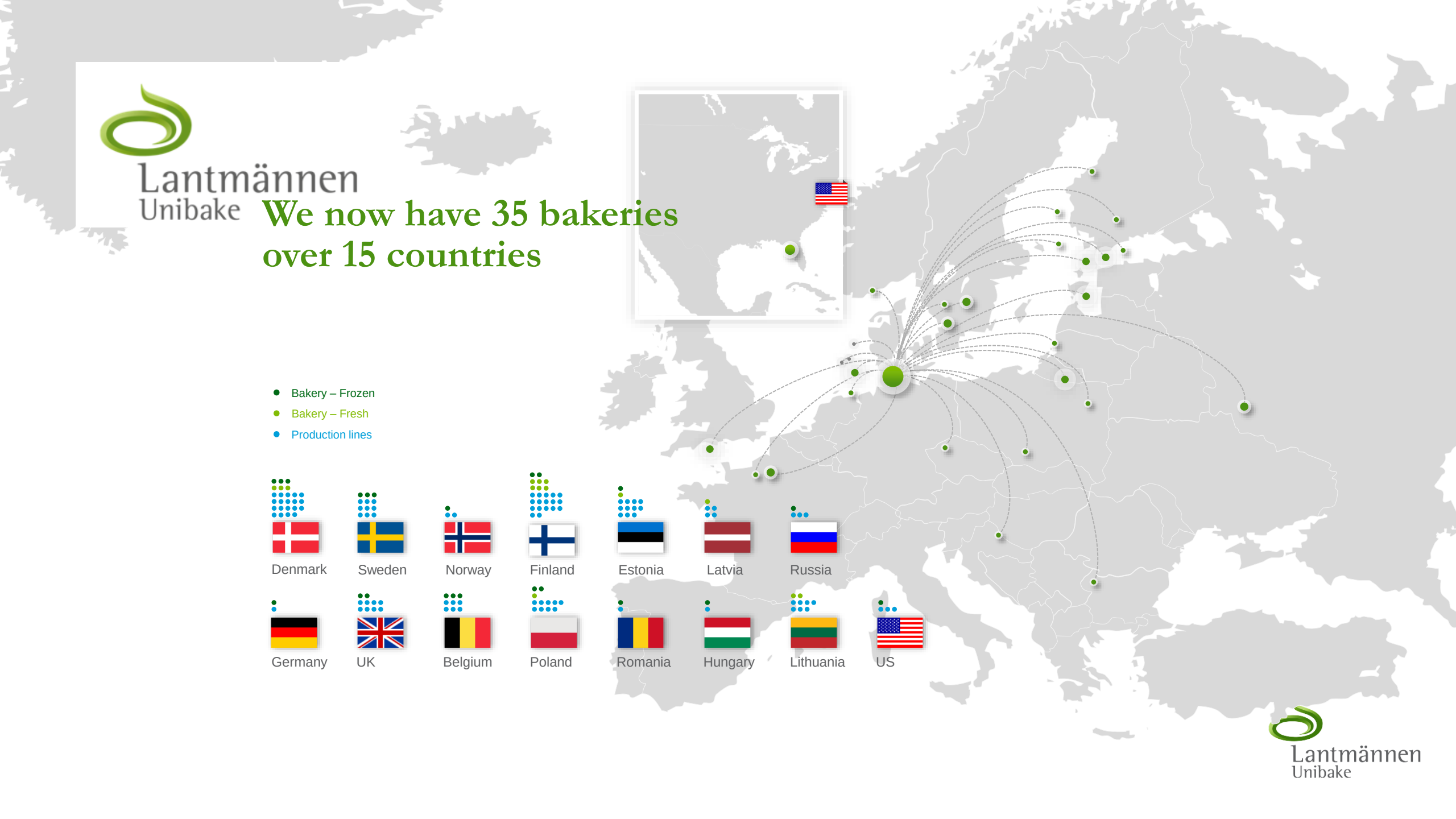
From field to fork

Plant breeding
Machinery
Seed
Forage
Inputs
Grain trade
Feed
Flour & semolina
Bakery & Bake off
Starch
Malt

Lantmännen
Unibake

Lantmännen Unibake

We now have 35 bakeries over 15 countries



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Film factory of the future

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The 7 transformations

T1 – World Class Production equipment

Score: **4,6**/5

T4 – human oriented production

Score: **4,3**/5

T2 – End-to-end engineering

Score: **4**/5

T5 – Networked factory

Score: **4,9**/5

T3 – Digital Factory

Score: **4/5**

T6 – Ecologic Factory

Score: **4/5**

T7 – Smart Factory

Score: **4,2/5**

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Step Changes

Technology

- Fastest baguette line world wide
- Focus on process control from start till end
- Future proof design

Data management

- Objective measurement
- Data collection systems
- Data transparency on all levels

Culture

- Leadership programs
- Continuous improvement
- Focus on product quality

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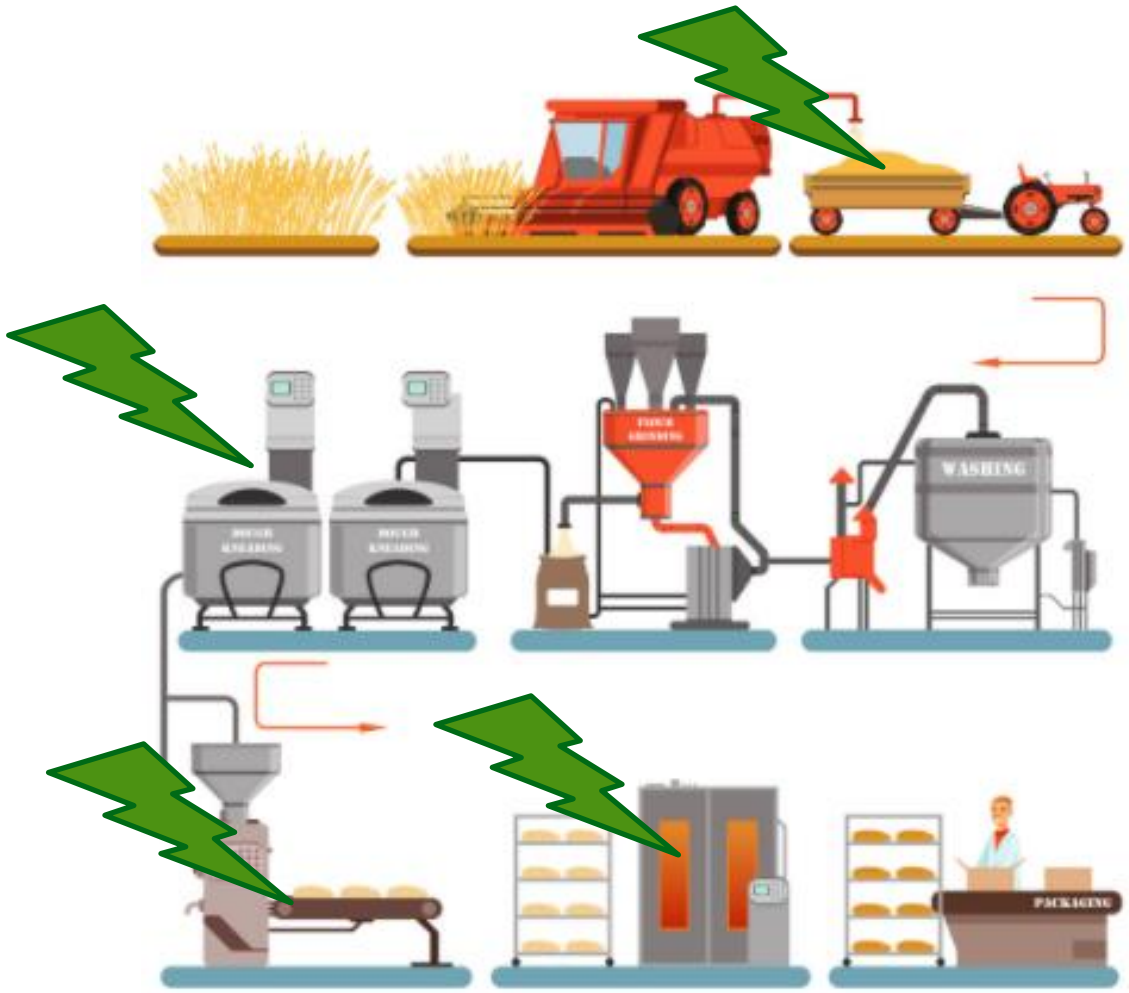
How to use this technology and translate it to daily work and continuous improvement



1 Identify critical process steps

By using continuous improvement methodologies

Pro active
- FMEA
- QA matrix

Re-active
- Problem solving
- Root cause analyses

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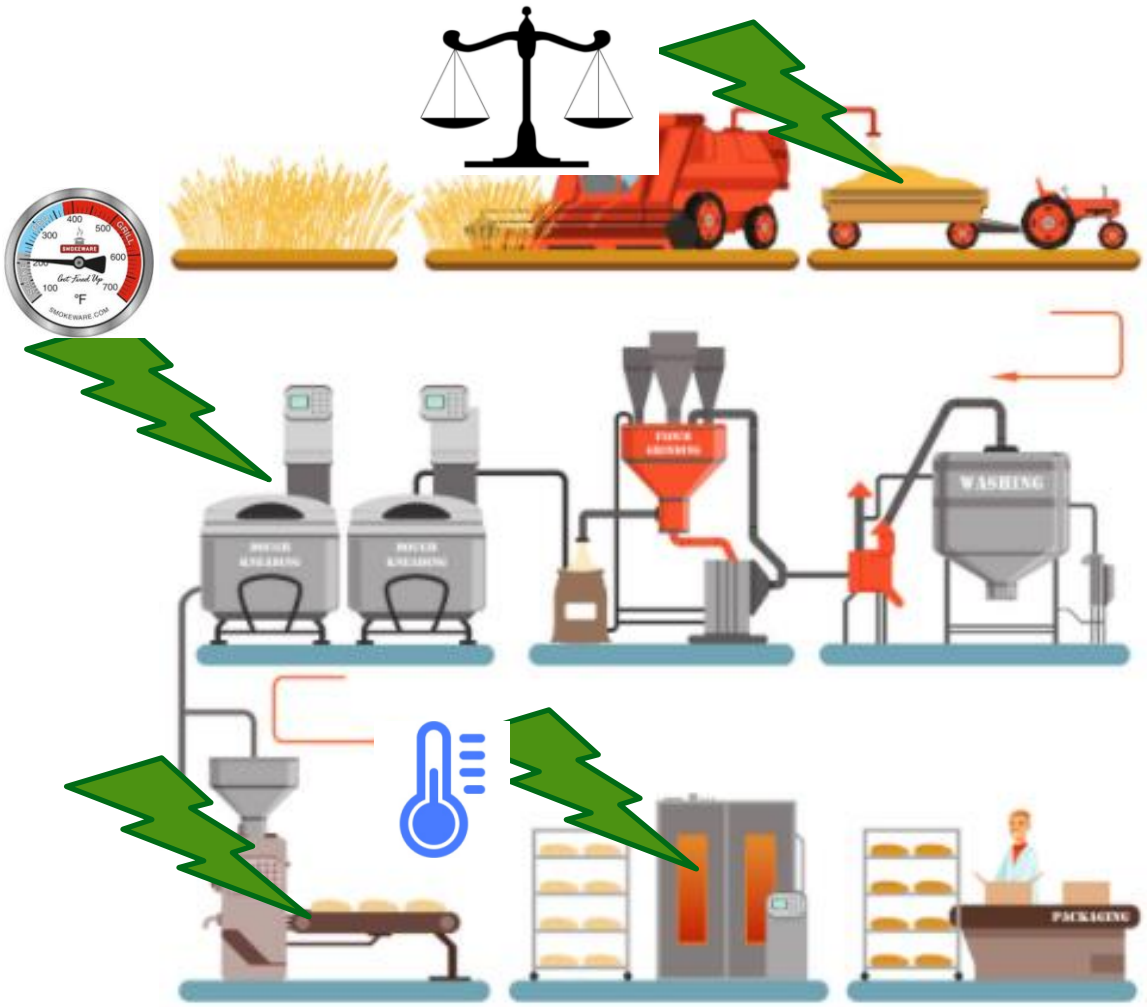
How to use this technology and translate it to daily work and continuous improvement



2 Develop methods to measure those steps in a objective manner

By using expertise

External
- Universities
- Suppliers
- Partners

Internal
- Own product development
- Sister companies

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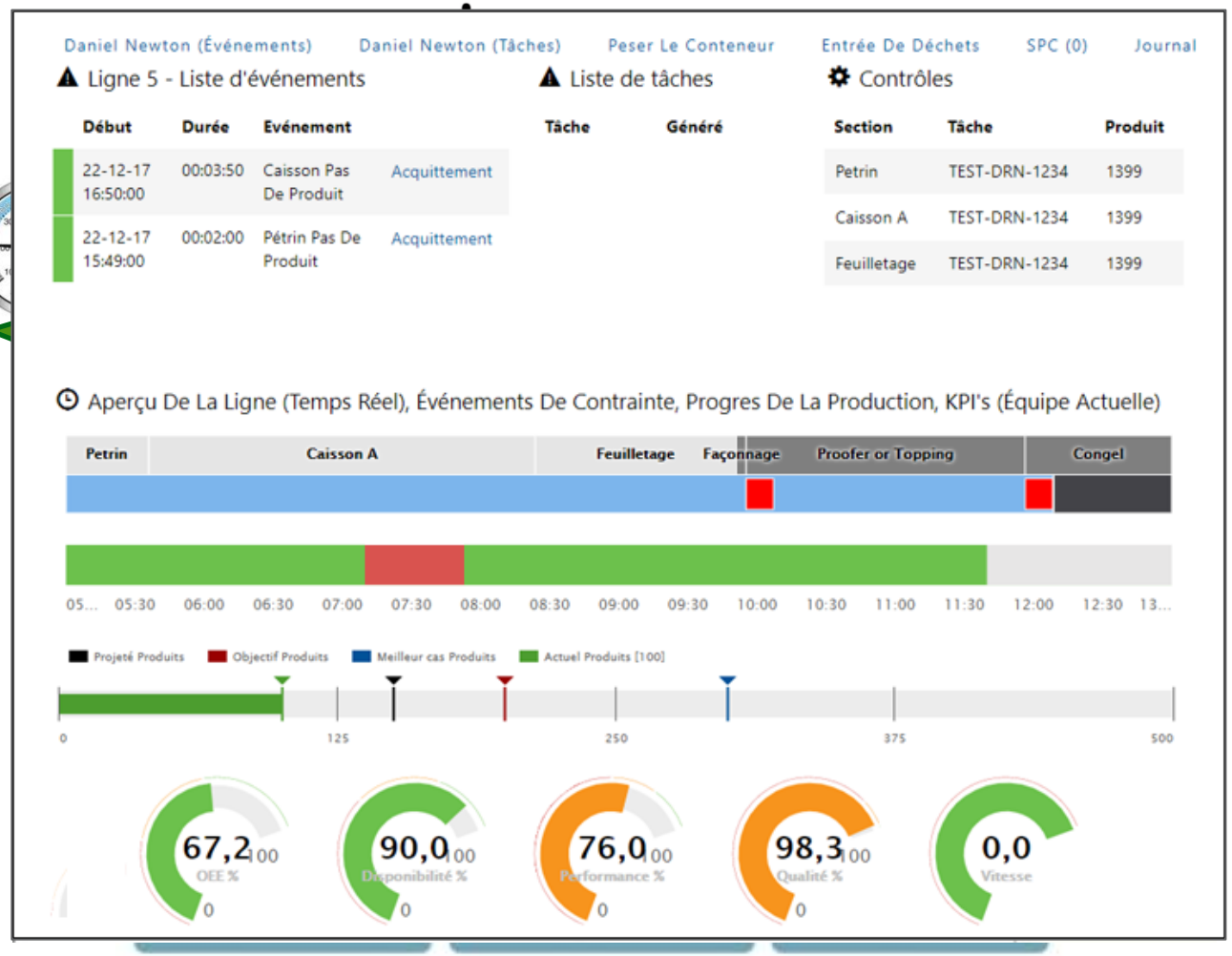
How to use this technology and translate it to daily work and continuous improvement

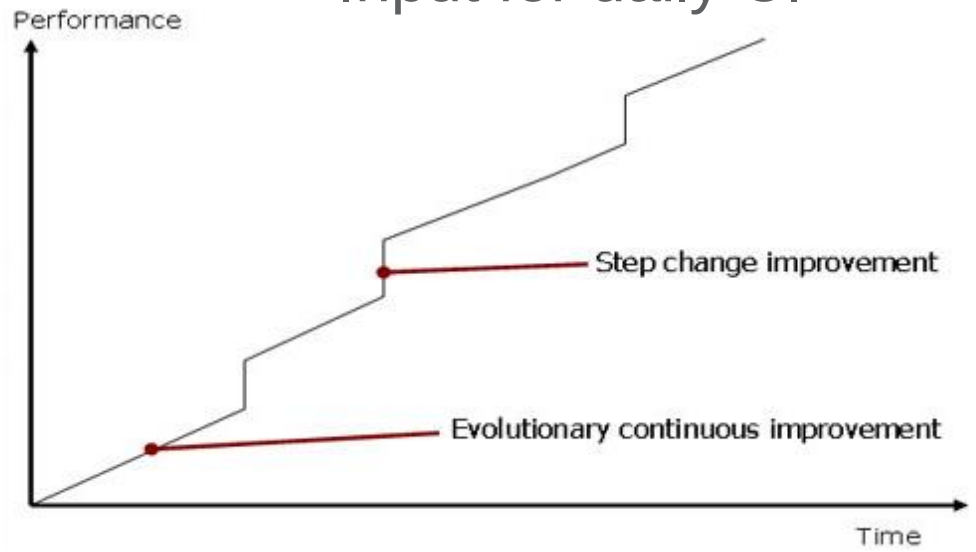


3

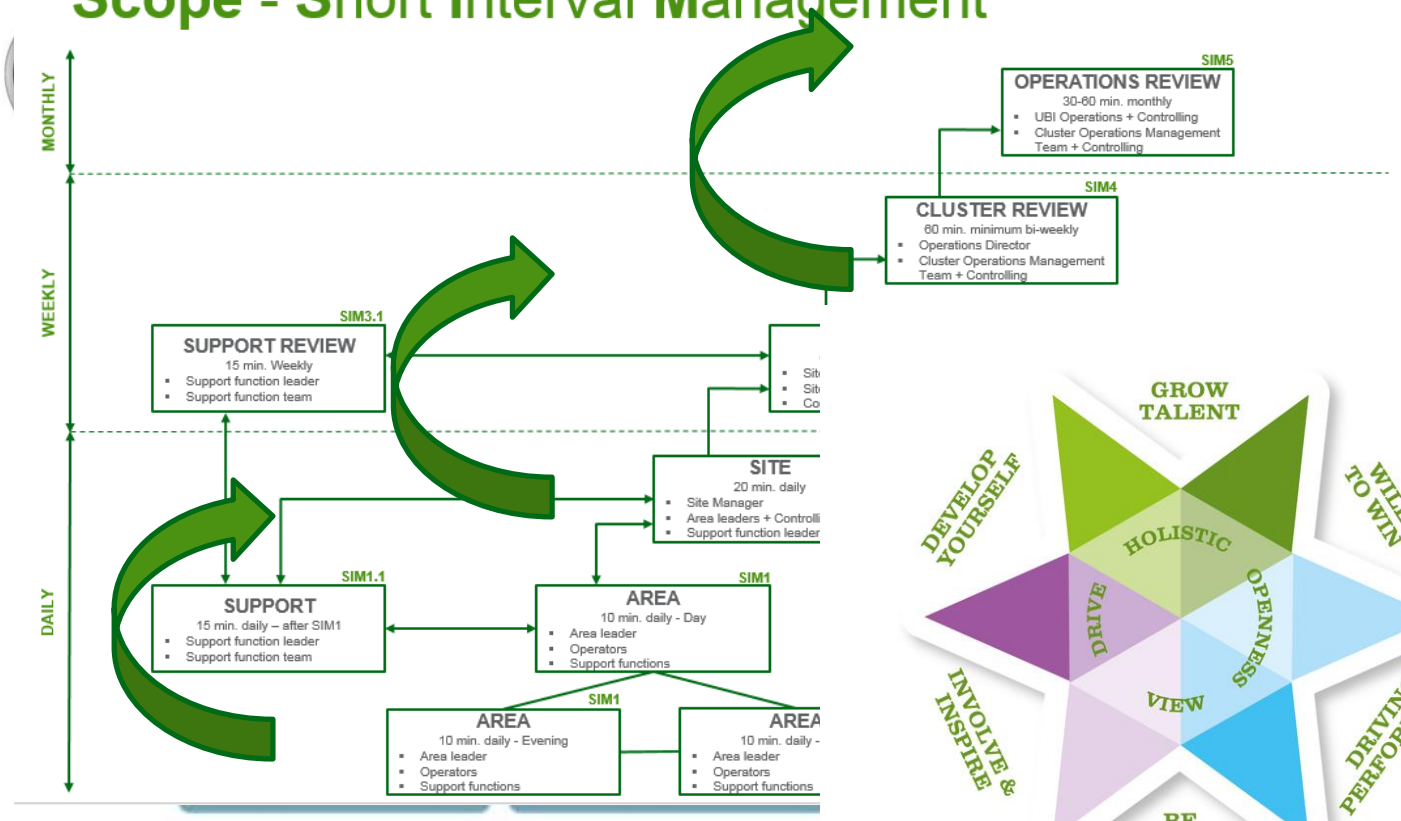
Develop way of handle the data toward clear information

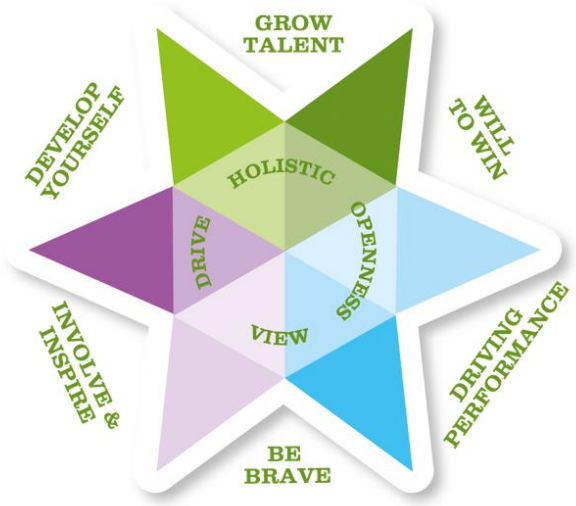
In order to:

- Create step changes
- Input for daily CI



How to use this technology and translate it to daily work and continuous improvement





4 Create ownership at the lowest level…

- Implement clear information and communication flows with escalation principles (ANDON)

- Continuous improvement mindset

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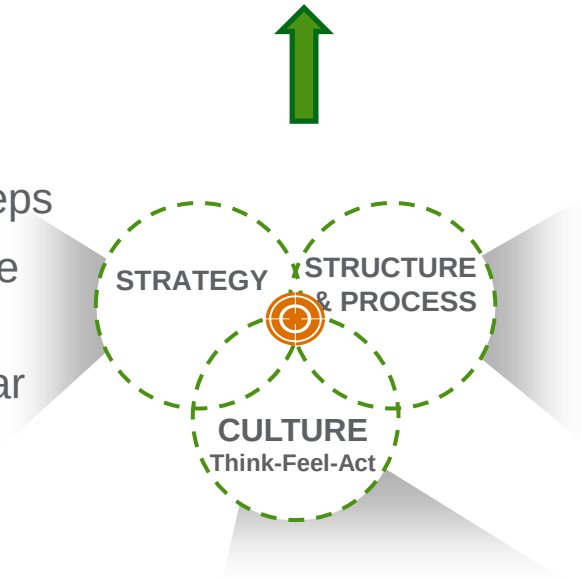
World class operations

1. Identify critical process steps
2. Develop methods to measure those steps in a objective manner
3. Develop way of handle the data toward clear information
4. Create ownership at the lowest level…



- Data analyzing tools
- Knowledge sharing
- Continuous improvement processes
- Newest technology

Continuous improvement mindset