E-APP:
the Electrolux stepping stone strategy
to empower bottom-up

Emanuele Quarin

Berlin, November 5th 2019
Electrolux shapes living for the better by reinventing taste, care and wellbeing experiences, making life more enjoyable and sustainable for millions of people. Founded in Sweden in 1919, we’re a global leader in appliances for households and professionals. Our main strategic drivers are to act sustainably, create better experiences and always improve!
EU manufacturing footprint

15k

15

17m
3 pillars of digital transformation

- Strategy
- Roadmap
- Community & Platform
Electrolux strategy

technology

people

value
Electrolux strategy
Technology, people, value creation

real time data
connectivity
augmented workforce
decentralized & data driven decision making
asset optimization
## EU Digital Roadmap

### Growth
- User Experience

### Productivity
- Operational Excellence

### Technological Enablers

#### DIGITAL WORKFORCE
- **Remote Support & Training**
  - Utilisation of AR and VR to increase both effectiveness and user experience of learning...
  - o remote maintenance
  - o virtual safety training

#### PAPERLESS ORGANIZATION
- **Excellence Driven by Simulation**
  - Virtual simulation to generate models in a very early stage of the development process

#### REAL TIME DATA
- **Predictive Analysis**
  - Solutions to turn data into insights and utilise insights to create value...
  - o data utilisation to make predictions
  - o predictive maintenance

#### REMOTE MONITORING
- **Remote Monitoring**
  - Utilisation of connectivity to facilitate the access to data remotely...
  - o online energy consumption management
  - o online external tools management

#### GLOBAL ORGANISATION
- **Global Initiatives to Leverage Scale Effect**
  - o Dome
  - o IT roadmap

### Development of APPs to make our organisation a paperless organisation...
- #snapshot
- Kainexus (&digital EMS)
- Digital JDS
- Advanced planning

### Utilisation of AR and VR to increase both effectiveness and user experience of learning...
- o remote maintenance
- o virtual safety training

### Utilisation of connectivity to facilitate the access to data remotely...
- o online energy consumption management
- o online external tools management

### Solutions to turn data into insights and utilise insights to create value...
- o data utilisation to make predictions
- o predictive maintenance

### Virtual simulation to generate models in a very early stage of the development process

### Utilisation of AR and VR to increase both effectiveness and user experience of learning...
- o remote maintenance
- o virtual safety training
Advanced Workforce Management System
the right people, in the right place
respecting skills and limits
Advanced Workforce Management System

Skill Matrix
Dynamic skill matrix based on machine algorithms

Real Time
Real time monitoring of workforce on the shop floor

Risk Monitoring
Elaboration and risk monitoring of workforce profiles based on OCRA/NIOSH standards

Knowledge Sharing
Knowledge sharing among all organizations

Scheduling
Optimization of workforce scheduling, respecting its abilities and limitations

Training
Workers training and certified management system

Communication
Real time communication with the production lines and between them
Scalable system for equipment status monitoring and real time notification.

Unique “backend” across the factories.

Fully customizable devices

- Users and groups
- Station status visualization
- Data and conditions
- Notifications
Escalation process

1. Notification to Team Leader
2. 300 sec
3. Notification to Maintenance crew
4. 600 sec
5. Notification to Area Manager
6. 300 sec
Digital AMBASSADORS Community
To guarantee a proper level of interaction with the external ecosystem about Digital tranformation

Actively identifying projects & scale-up opportunities across plants

To provide the Plant management team with knowledge about digital projects launched in other factories that could be of interest of his/her plant
Digital SNAPSHOT: our platform
Digital SNAPSHOT: our platform
A solution is already available
→
download/adapt/implement

A similar need is present
→
a team of AMBASSADORS is activated
→
ripple effect is generated

A solution enters EU scale up program
Technology Enables People Lead