

# Heinzel goeS/4 HANA together with TietoEVRY

INSIGHTS | CHALLENGES | SUCCESS FACTORS

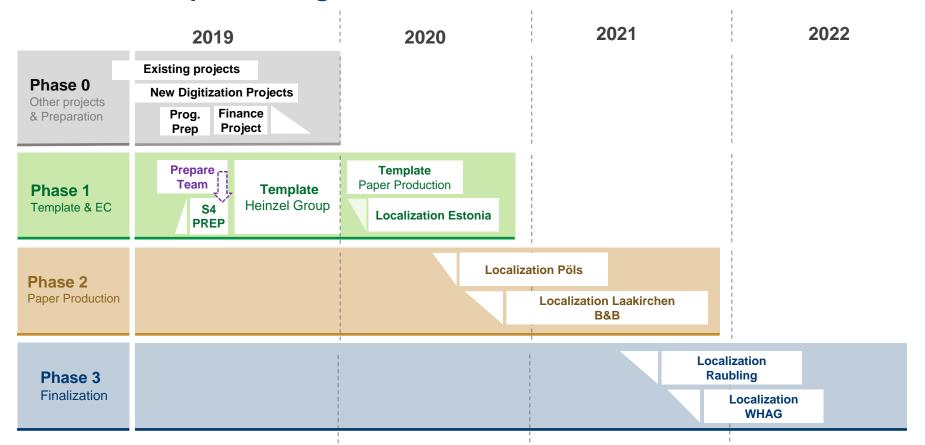
A journey towards an Intelligent Enterprise with SAP S/4HANA in **Pulp & Paper Industry** 



Webinar at SAP Mill Conference 27<sup>th</sup> – 29<sup>th</sup> April 2021



Roadmap Heinzel goeS/4 HANA



# Heinzel goeS/4 HANA - Solutions Overview



#### SAP Solutions used

- SAP Analytics Cloud for Budget & S&OP Planning
- SAP MDG for Master Data Management
- SAP BW/4 HANA
- SAP PO for communication customer/vendor
- SAP PCo for connecting to machines



SAP Modules

- FI/CO
- MM
- PP
- QM

- SD
- LE/LO
- WM

- HCM
- GTM
- PM



SAP Add ON's / Accelerators

- SAP Blockplanning 2.0 + aATP/CTP
- SAP eMES with native Fiori
- Order Cockpit based on CDS Views
- Stock Cockpit based on CDS View
- Transport Monitor for Paper
- · Customer Info Record
- FSC/PFSC Solution

- mobile solutions for WM in UI5
- · Advanced order confirmation logic
- Equipment Cockpit for mounting of materials or equipment's
- TIPS: Tips Trim 19/19/19 (Trim/windows/MS SQL Server)



A unique way for the project team to adapt agile framework utilizing fully remote working approach





### Solution Validation & GAP Identification

# Design Workshops (Template Phase)

### Preparation

Content

**TietoEVRY** prepares content based on S/4HANA best pracindustry tices. practice and available state-of-the-art solution enhancements of HG (supported bv HG team)

Heinzel team leads & support prepares requirements.

which are still valid.

(business) process IT department bring in actual realized GAPs,

### Workshops 🛂

- Walk-through SAP S/4HANA best practices, Tieto TIPS paper industry solution, realized HG solutions
- Fit-Gap to existing business processes requirements and analyze S/4HANA and TIPS compatibility
- Validate and prioritize gap list from the feasibility study
- Delta design for gaps
- Define and approve To-Be business processes

**RESULTS** 

Agreed Process Definitions, GAP Backlog & **Meeting Minutes** 

Published for attendees. Accepted within defined period.

# Deliverable

Design **Documentation** 

 To-be business process definitions and flows **RESULTS** Solution Design

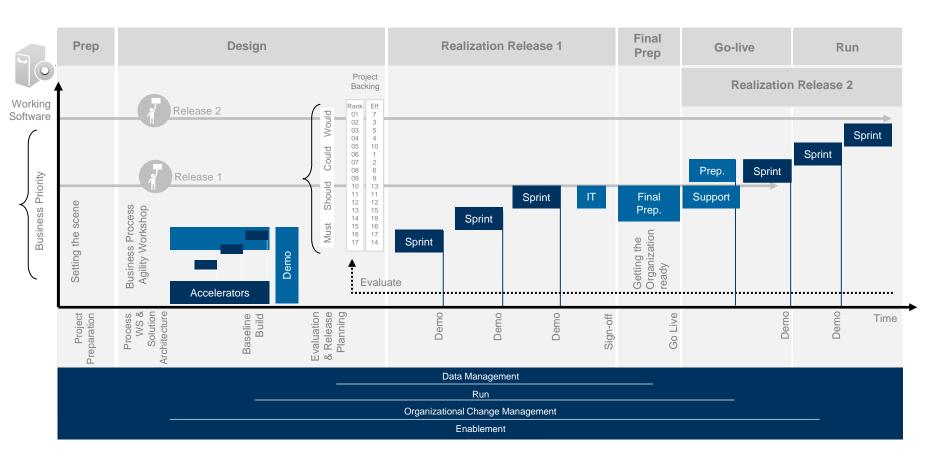
**Documents** 

- Prioritized backlog for gaps
- User Stories / Functional specifications
- Effort estimations

Use of S/4HANA best practice content, Tieto TIPS Paper Industry Solution and existing state-of-the-art HG solutions and document GAPs instead of traditional blueprinting.



# **Agile Implementation Methodology used**



# **Roles & Responsibilities**



#### **Support/Process Expert**

#### Deliver the solution to the mill by

- Checking template/process fit
- Making the templates work for the mill
- Ensuring harmonization
- Educating users
- Handling user problems
- Detecting rollout problems



#### **Process Lead**

- Template Builder
  - Solving mill business problems with the template toolbox
- Process Champion
  - Driving best practice across mills
- Aid during the localization
- Go-to-Point for all changes requests regarding the solution



#### IT & ext. Consultants

- Discusses solution possibilities for business challenges
- Configuration & adaptation of SAP
- 2nd and 3rd level support

# Online facilitation for workshops due to Covid-19



- Prepare content & plan carefully
- Choose the right set of tools & test
- Set the scene, make sure participants understand the plan structure, roles and tools
- Create a psychologically welcoming space

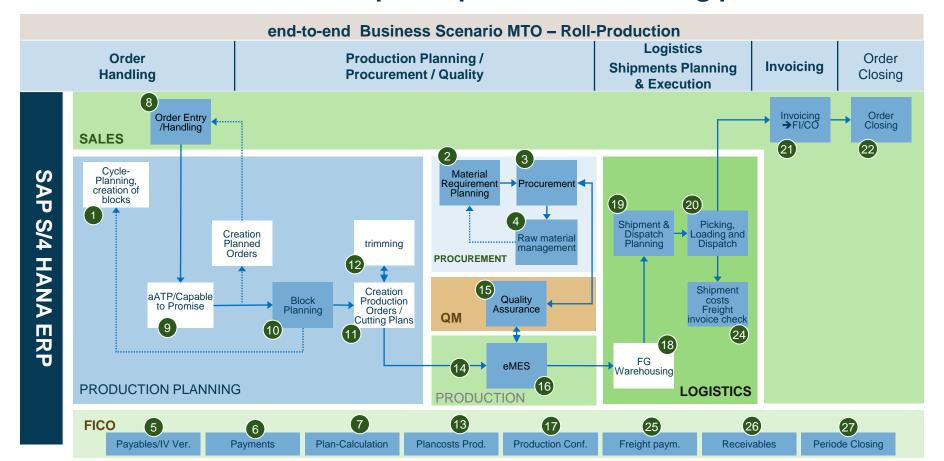
- Keep it together & clear, monitor the schedule.
- Include many brakes for people to have time to think.
- Facilitate conversations actively.

- Present results & next steps
- 2. Retro perspective round with participants to make sure things were understood jointly.



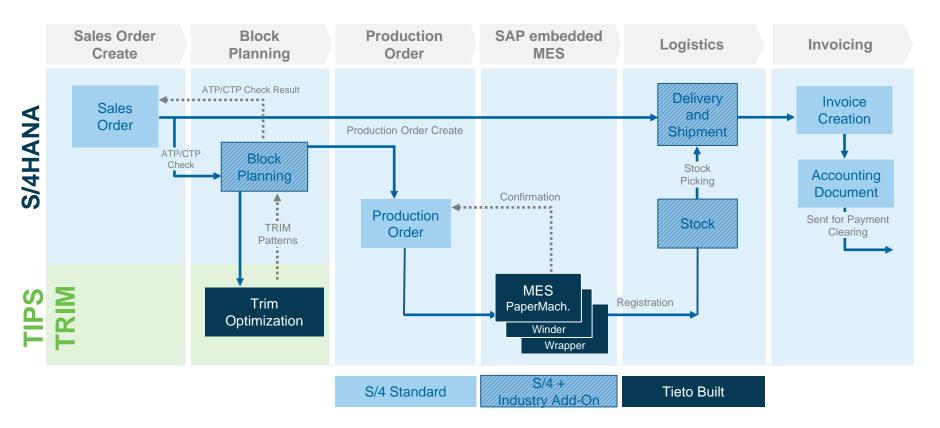


# Best Practices for Pulp & Paper used as starting point



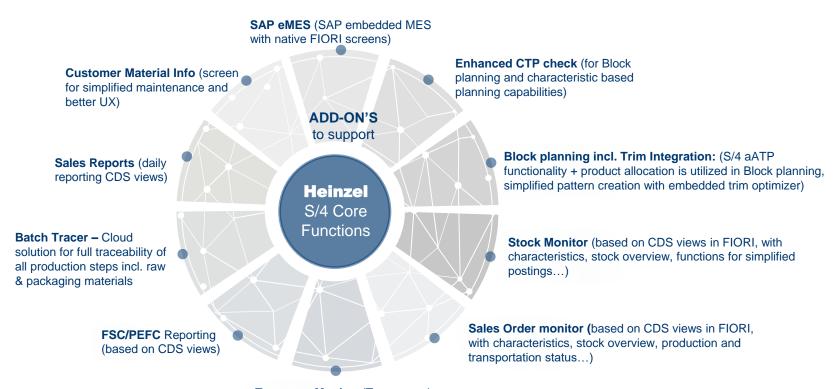


## Clear view what needs to be enhanced



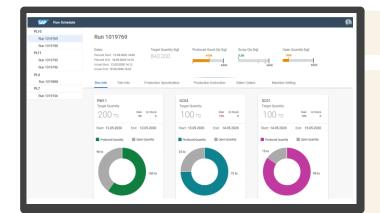
# ADD-ON'S to Support Heinzel Group Competitive Edge Solutions

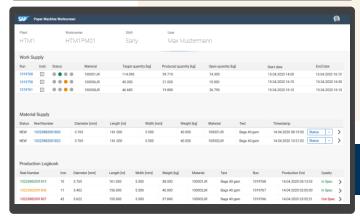




**Transport Monitor** (Transportation planning, shipment schedule planning)

# SAP eMES based on FIORI





# Design Thinking and rapid prototyping



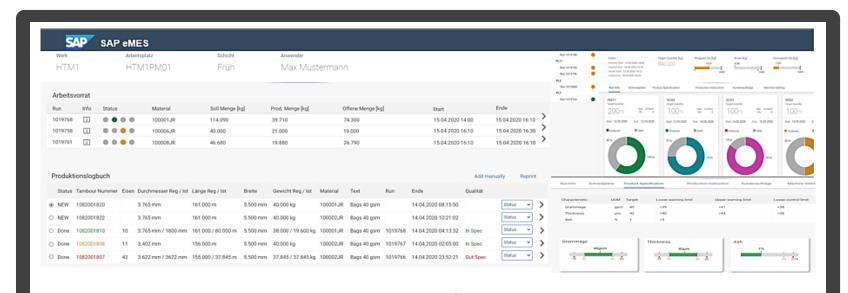
### The way to eMES on Fiori:

- Axure is used in MES project team to plan, prototype, and hand off to developers, all without code.
- Involve End Users from the very beginning to get best possible User Experience for UI Screens.
- TietoEVRY's experts supporting the agile way from Design Thinking to UI prototyping – kickstarted with existing "Best Practices" for eMES solutions
- Challenging the Status Quo

,Simplicity & Automation in focus of MES Team

### HEINZEL GROUP® tieto EVRV

### SAP eMES **Towards More Automation Capabilities**



#### **eMES VISION:**

"Our eMES seamlessly connects your

eco-system as it's fueled by data, supported by AI & managed by people"

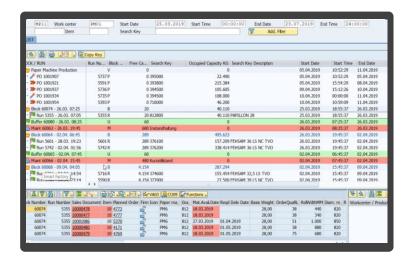


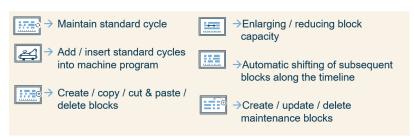
"Create eMES processes to support fully automated production being able to run in manual mode too - laying the foundation towards "AUTONOMOUS MILL"





### **Block planning Highlights**







Full integration into SAP standard procedures for **MTO processes** based on TietoEVRY solution map



**Simplicity** - simple UI, simple handling, simple workflows



Industry standard block planning running on S/4 – utilizing **Blocks and Runs** 

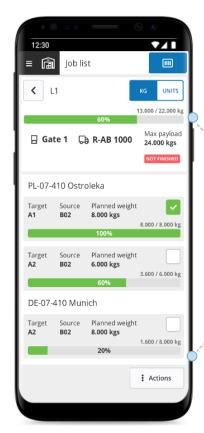


Online **ATP/CTP** during Order entry / change with backwards / forward scheduling



synchronization with production (current production rate faster or slower as planned)

### **Logistics Highlights**



# Fiori mobile solutions fitting for Heinzel Group:

WM put away, transfer posting & unpack



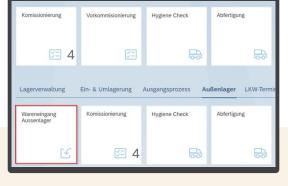
Truck self registration

Truck **hygiene check** and clearance

Delivery: **Picking** and **Pre-picking** 

Warehouse Overview with Paper specifics





**Time Slot Management Solution:** UI5 application to open/change/cancel shipments & time slot booking by Logistic Service Provider & automatic notification

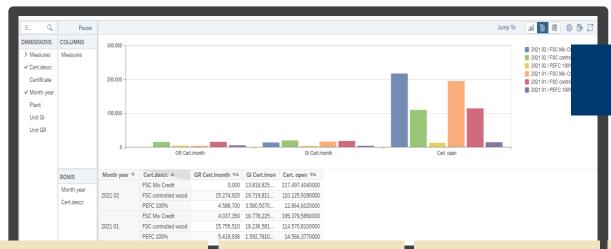


**Automatic forwarder Ordering:** using different channels (email notification, transporeon integration) to maximise automation, supporting best price determination and geographical capacity check



**Loading instructions visualization:** UI5 application for loading instructions at registration with 'multi language' capability for the drivers and loading securing materials overview

### Sales Highlights



#### Sale Order Entry:

S/4 standard functionality – enabling **aATP**, **PAL** (product allocation) and **full integration to Block planning** 

utilization of variant configuration.

#### Agency Workflow:

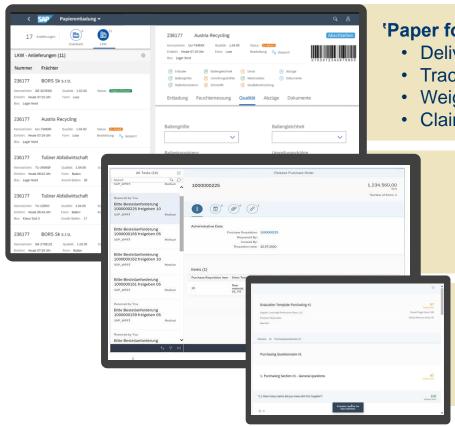
Integrated Workflow in sales and production planning for critical requests with release process by a Fiori App Customer Material info-record: Characteristic values are filled automatically in configuration of Sales Order entry to improve UX and avoid mistakes.

# **FSC/PEFC** Solution & App from **TietoEVRY**

Balance of sold quantities **vs** received quantities

Sales Order-Monitor: overview of sales order-, production- and delivery status with all needed Pulp & Paper specific information Sales Analytics /
Sales Reporting:
Real time analytics
of sales volume,
profit margin or
incoming sales
orders

### **Purchasing Highlights**



'Paper for Recycling' solution on Fiori with rapid prototyping

- Delivery monitor
- Tracking of deliveries
- Weight & moisture measurement
- Claim-Handling

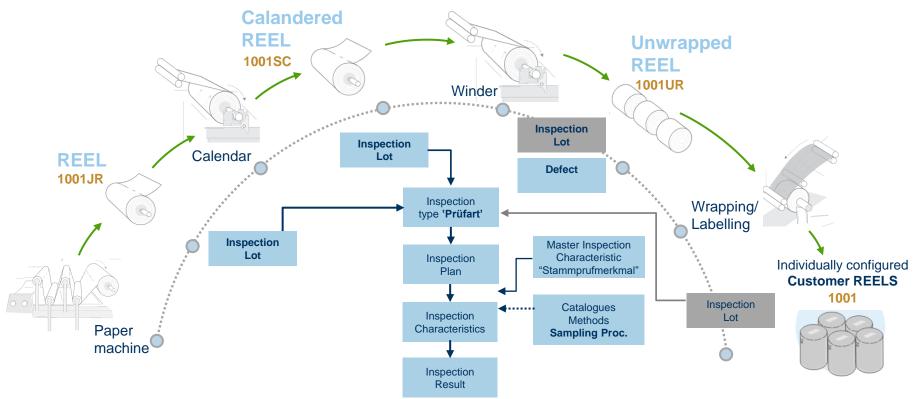
Purchase Requisition Cockpit

**Fiori based purchase** requisition release (Mylnbox), for mobile devices (Mobile Phone, Tablet, etc.)

#### Consolidated "Supplier Evaluation" - Fiori

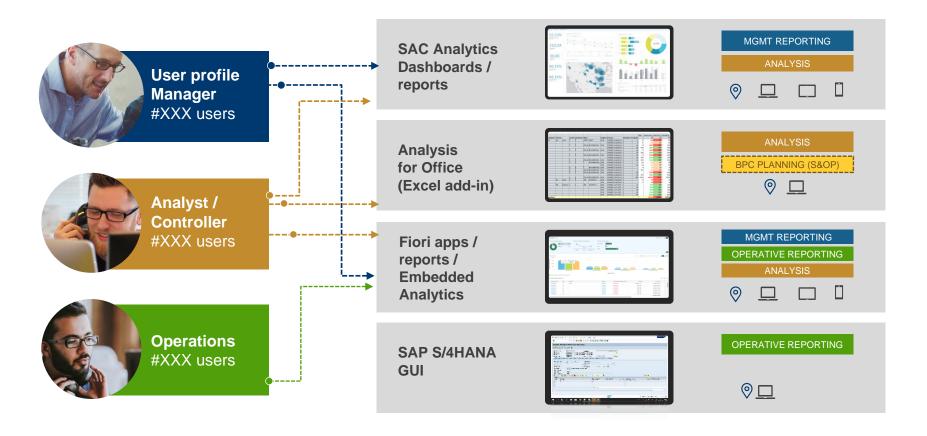
- Selection of suppliers to be assessed
- Criteria & weighting
- Questionnaires to employees

### **Integrated QM for production processes**



# **Reporting & Analytics**





# **Key-takeaways**

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- Innovation and Transformation starts on business side, driven by people
- Focus on innovation in terms on ask what we can do in the future that we were not able to do before
- Involve stakeholders
  and end-users as early
  as possible for rapid
  prototyping utilizing
  design thinking
- From challenge comes change, each Stream in the projects need to have challengers of the status-quo

- Define your perfect mix of agile methodologies considering SAP Activate methodology
- Culture & Team spirit eats Strategy For Breakfast, Innovation For Lunch, And Digital Transformation For Dinner

Prioritize core over edge