PwC and Neogen

# Simplified Manufacturing through S/4HANA Fiori Apps

Based on SAP S/4 implementation at a Life science customer

October 2023





# Speaker Introduction



**Narasimha Bhat** 

Manager - Advisory PwC

#### **Brief Carrier Highlights**

Supply Chain Architect
More than 9+ SAP transformations
Certified in IBP/PP/PS/MM &PM
Awards

- SAP Champion by SAP 2023
- Best IT Blogger Globee 2023



#### **Kory Schuckman**

PTM Lead Neogen

#### **Brief Carrier Highlights**

SAP transformation experience from 3 different companies, with a mix of functional roles (S&OP Director, Planning Manager, Production Supervisor) and technical roles (Solution Architect, Team Lead)

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# Agenda

1	Unlocking the Customer Landscape & Defining Project Horizons
2	Navigating the Maze: Challenges & Complexities Encountered
3	From Theory to Practice: Real-World Fiori App Use Cases
4	Visualizing Strategy: An Integrated View of Fiori Apps and T-Codes in Action
5	Harvesting the Rewards: Measurable Benefits & Impact

# Unlocking the Customer Landscape and Defining Project Horizons



#### Brief Bio of Customer - Neogen

Neogen Corporation is a Lansing, Michigan-based global leader specializing in diagnostic solutions for food and animal safety. Founded in 1982, the company serves a diverse range of sectors including food production, veterinary care, and agriculture, and is renowned for its innovation and high-quality product offerings.

- Industry Sector- Life Sciences
- Market Presence Global with sales presence in 140+ countries, Regional offices in 12 countries



#### **Project Scope for Manufacturing**

Core Technology – SAP S/4 Hana - RISE

Forecasting: FMO

**Core Module** for Manufacturing: PP – Production Planning

integrated with SAP EWM

Legacy ERPs: SAP ECC & Dynamics SL

Locations: Primarily US & UK

**Duration:** 18 Months

# Navigating the Maze: Challenges & Complexities Encountered



#### Technical Landscape

- ECC with Custom Solutions
- ECC integrated with IBP
- Data Lake



#### Master Data

- No Recipes
- Material Master harmonization
- Quality Data harmonization



#### **Process Challenges**

- Scheduling Logic
- Material Staging
- Warehouse Processes
- Costing Product
- Uniformity in Production



#### **Change Management**

- ECC transactions Vs Fiori
- Managing Capacity in Excel



#### Customization

- Heavy customization in ECC
- · Customization in legacy SL

#### Fiori App Adoption

- Resistance to Transition from ECC transactions
- Learning Curve for Utilizing Fiori's Full Capabilities
- Cultural Shift from Excel
  - Ingrained Dependency on Excel for Data Management
  - Mental Barrier to Adopting Automated Systems

Major Challenges

#### Planning App: Monitor Material Coverage

#### **Top features used by the MRP Controllers**

- Time till Shortage filter
- Personalize table columns FG/SFG/RM
- Change Purchase Order UOM
- Shortage Quantity and Duration
- Personalized filter
- Easy navigation to Mat. Info/Stock Req List/MRP run
- Notes feature

#### **SAP Gui Equivalent**

- Many features are not supported in any SAP Tcode
- App uses features from MD04/MM03/MD07/MMBE/MB52

#### What is missing in Fiori?

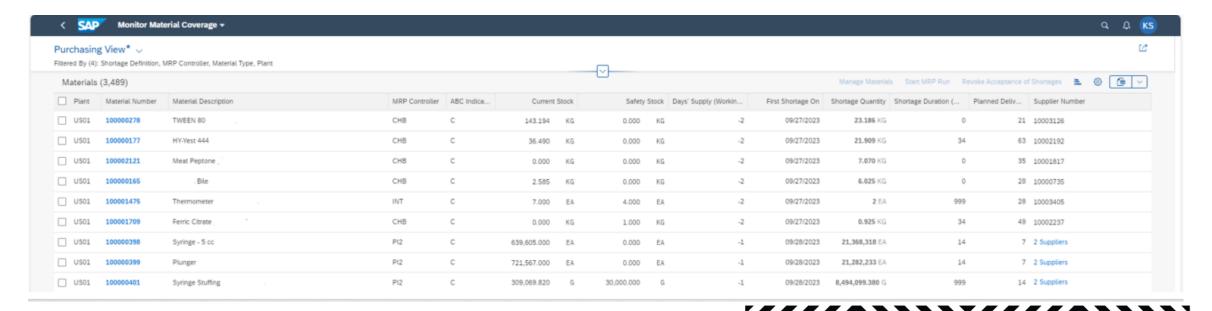
- · Not all MRP exception messages supported
- A few Filters of MD07 are not available

#### **User Acceptance**



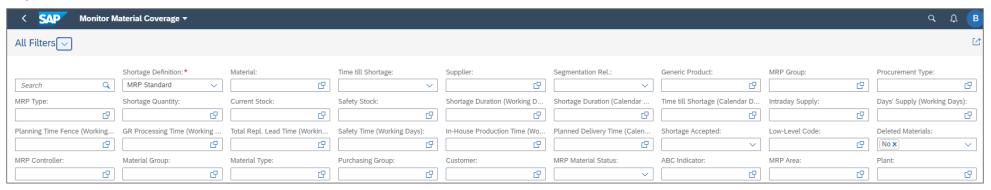
#### Handling missing functions

- · Display MRP master data issues- App.
- Shortage definition configuration.

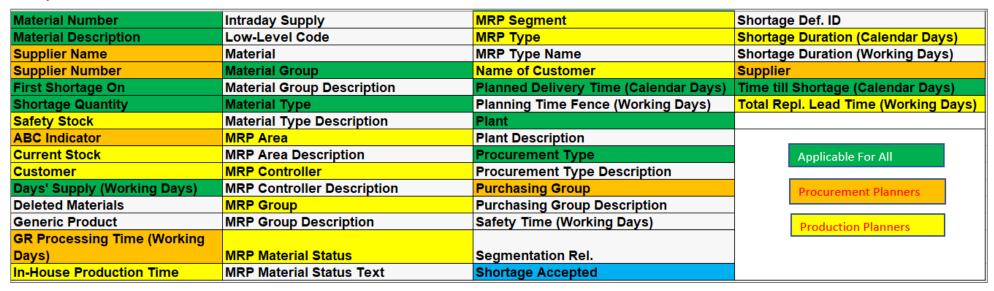


## Monitor Material Coverage -Contd

#### **Input Filters**

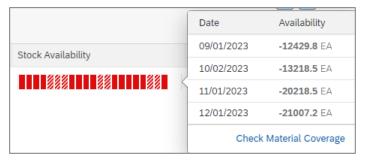


#### **Output Columns**



## Monitor Material Coverage

#### **Embedded Analytics**



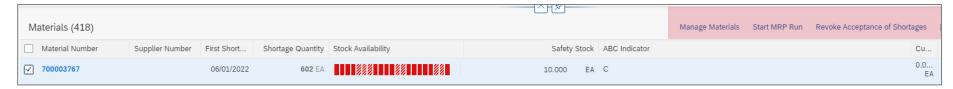
#### Intuitive Exception messages



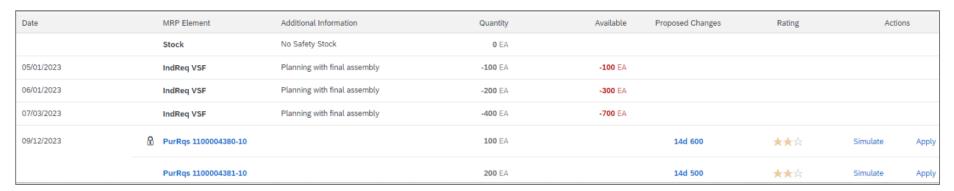
#### **Intuitive Conversion**



#### **Intuitive Actions**



#### **Solution Card**



#### Planning App: Monitor External Requirements

# **Top features used by MRP Controllers/Plant managers**

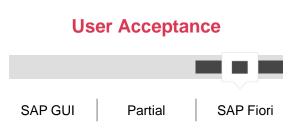
- Time till Shortage filter
- View Sales order/STO requirements
- · Quick view of affected orders
- Personalized filter
- Easy navigation to Mat. Info/Stock Req List/MRP run
- Overview of quantity Needed
- Used daily to prioritize production

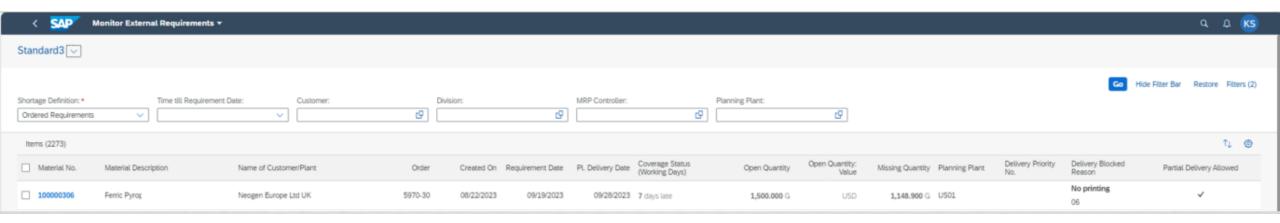
#### **SAP Gui Equivalent**

- Many features are not supported in any standard SAP Tcode
- Delayed/BOP sales order report to some extent.

#### What is missing in Fiori?

- Shortage definition may need configuration
- Data shows up only if there is a shortage





#### **Planning App:** Monitor Internal Requirements

# Top features used by the MRP Controllers/Plant managers

- Time till Shortage filter
- View RM/SFG requirements for SFG/FG
- Quick view of affected orders
- Useful sorting
- Issued/Covered/Missing Materials
- Overview of Open/Missing Qty
- Used daily to prioritize production based on requirement Date
- Embedded graphics
- Navigate to Related apps

#### **SAP Gui Equivalent**

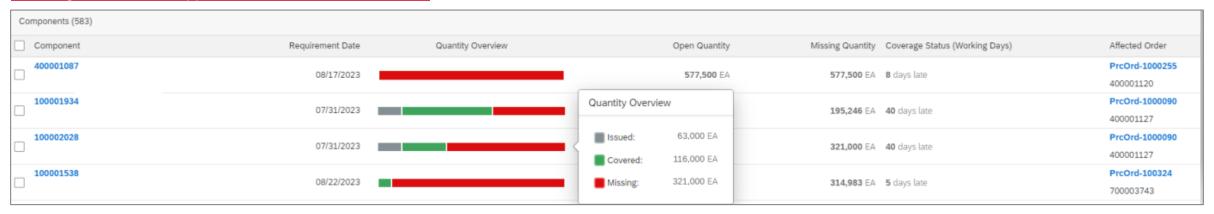
- Many features are not supported in any SAP Tcode
- App uses features from MD04/COOISPI/COHVPI/CO46 and others

#### What is missing in Fiori?

• Do not show hierarchical report like Co46 (order Progress report), hence not a replacement for CO46

#### **User Acceptance**



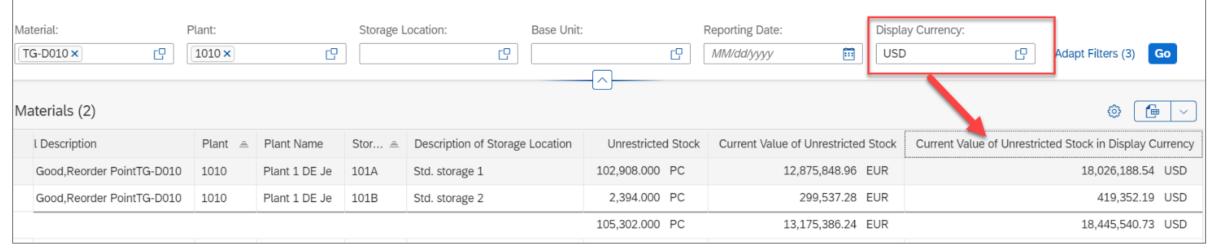


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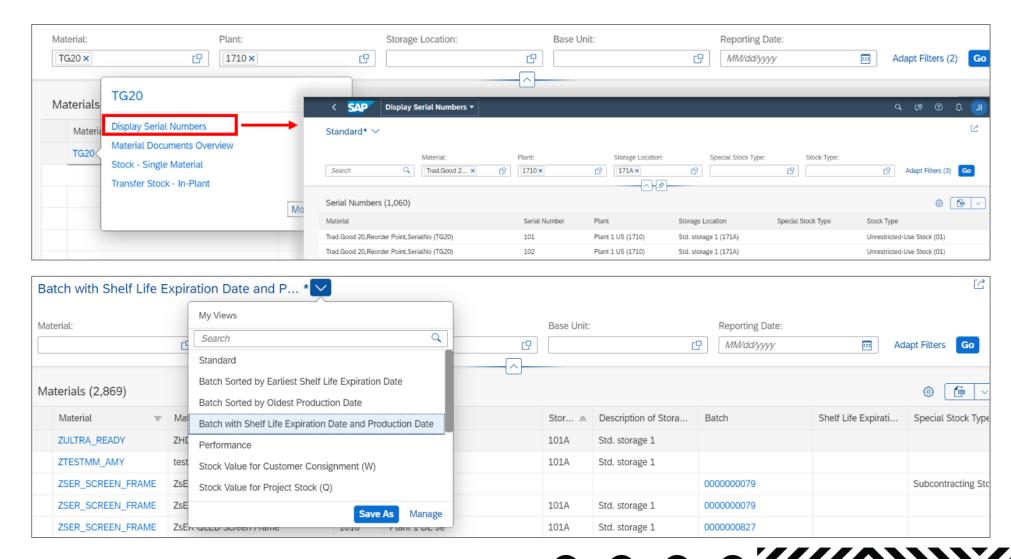
#### Planning App: Stock Multiple Material

# Top features used by the all roles • Stock of Multiple material • Stock Value is also visible • Displays serial number • Batch with shelf-life expiration • Unrestricted/Quality/Blocked stock • Exhaustive search functionality • Excel export

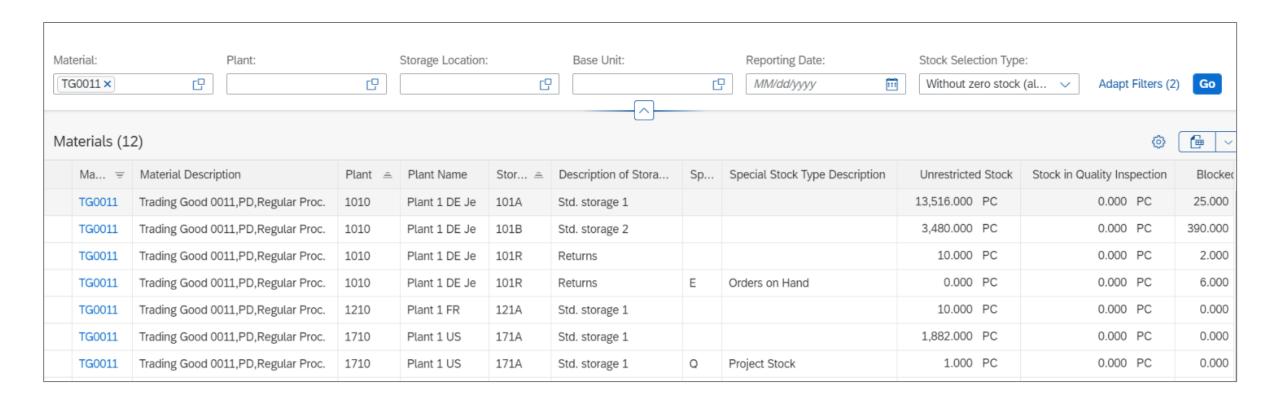




# Stock Multiple Material - Contd



# Stock Multiple Material - Contd



#### Planning App: Manage Work center Capacity

#### **Top features used by the Capacity Planners**

- Simple navigation to select capacity situations based on very useful filters.
- Single evaluation Horizon
- Graphical visualization of critical and normal loads
- · View Backlog overdue orders
- · First overload, Max load
- · Adding, shift, intervals, increasing capacity
- Copy shifts

#### **SAP Gui Equivalent**

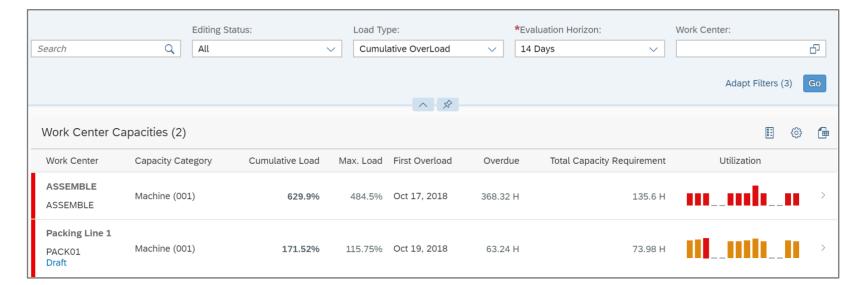
- CM\* transactions
- Not all features of Fiori available on GUI Tcodes

#### What is missing in Fiori?

 Dispatching functionality would have been an ideal add-on to the app

# User Acceptance

SAP GUI Partial SAP Fiori



#### **Planning App: Capacity Scheduling Table**

#### **Top features used by the Capacity Planners**

- Easy dispatch options for single and multiple orders.
- Scheduling orders for the past 30 days
- Letting system to find empty slots for dispatching
- Feature to view capacity availability on alternate production version when the main production version is overloaded.
- Overdue/Late indicator

#### **SAP Gui Equivalent**

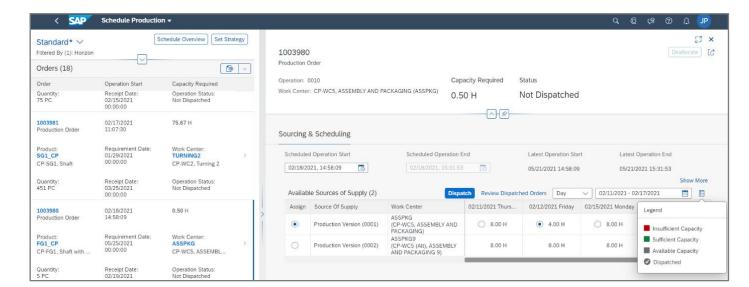
- CM25/21/31
- Not intuitive like Fiori App

#### What is missing in Fiori?

- Can be used only for critical work centers
- Not all the features of Strategy settings in CM\* transactions are available

#### **User Acceptance**





#### **Manufacturing Execution App: Manage Process order**

# Top features used by the Manufacture execution

- Easy way to monitor
- Finished Goods shortage
- Component shortage
- Process Delay
- By Quality status
- Very easy to find missing components
- Mass Release
- Mass TECO
- Confirmation of order/Operation is possible
- Prioritize orders based on delay days and requirement Days
- Shows operation in progress too
- Entire production document flow is available for view
- Embedded analytics
- Being used as a production readiness report by planners

#### **SAP Gui Equivalent**

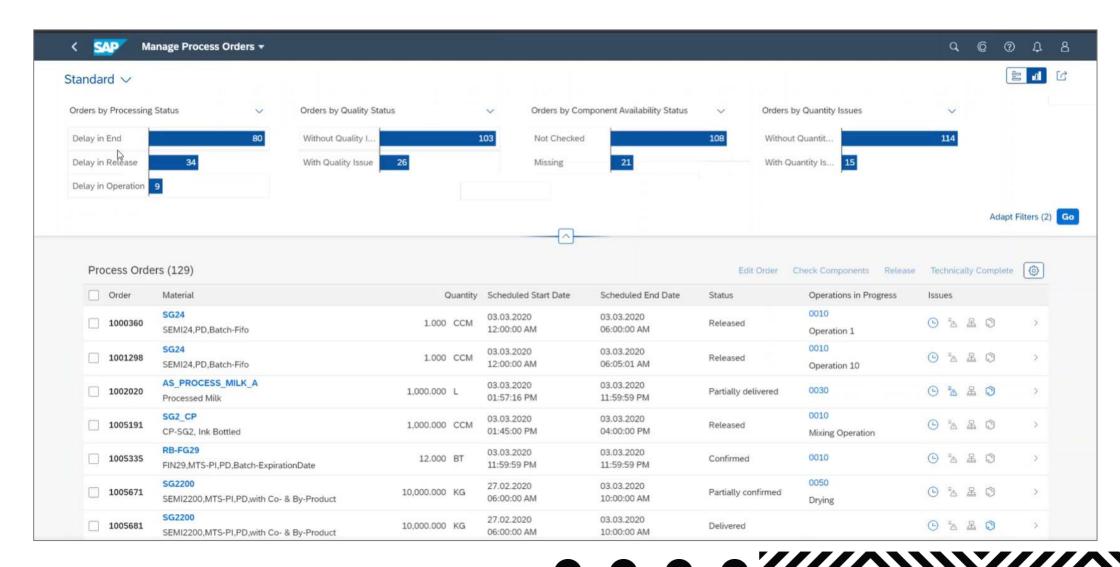
- COOISPI
- Not intuitive like Fiori App

#### What is missing in Fiori?

• Mass component availability check for multiple orders

# SAP GUI Partial SAP Fiori

## Manage Process Order



#### Manufacturing Execution App: Manage Process order operations

# Top features used by the Manufacture execution

- Easy way to monitor
- Component shortage
- Process Delay
- By Quality status
- Very easy to find missing components
- · Confirmation of Operation is possible
- Prioritize orders based on delay days and requirement Days
- Shows operation status
- Embedded analytics
- Being used as a production tasks print for shopfloor based on scheduled start date and status of operation.

#### **SAP Gui Equivalent**

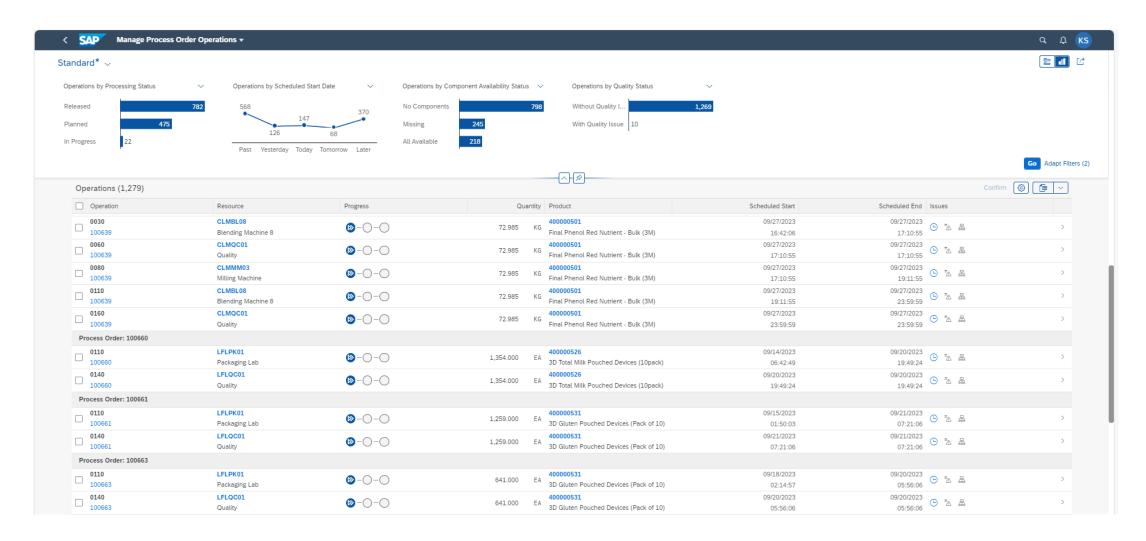
• COR6n Only for confirmation

#### What is missing in Fiori?

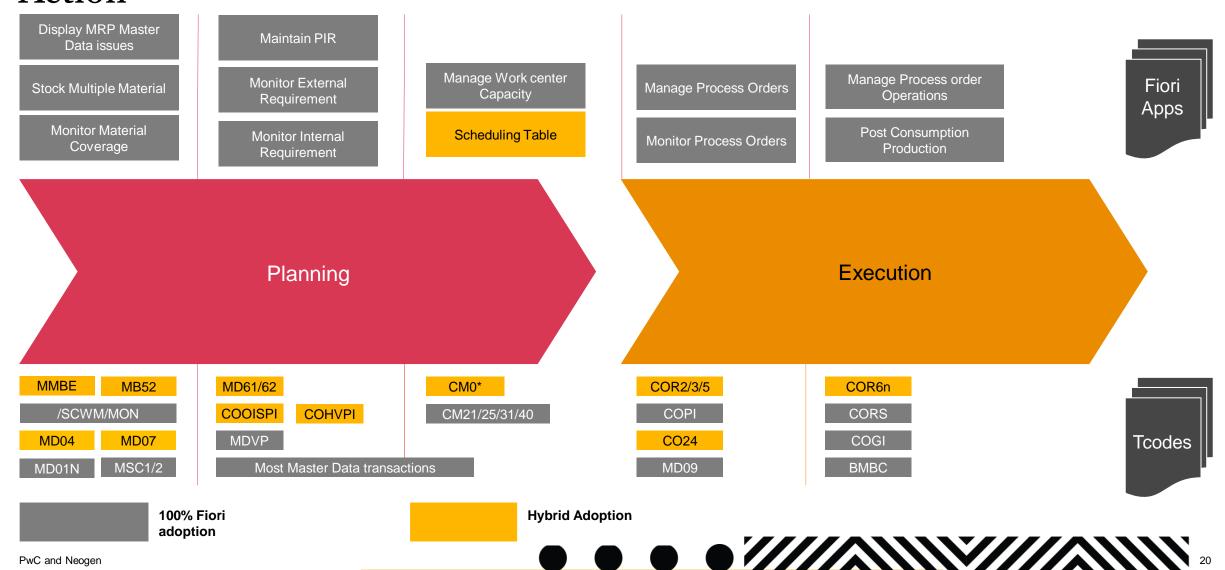
- Mass component availability check for multiple orders could have been a good feature, Currently, it allows component check order-by-order operation
- Automatic phase selection in the confirmation screen

# SAP GUI Partial SAP Fiori

# Manage Process Order Operations



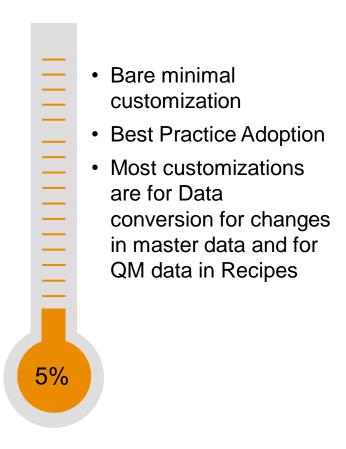
# Visualizing Strategy: An Integrated View of Fiori Apps and T-Codes in Action



# Harvesting the Rewards: Measurable Benefits & Impact



**Fiori Adoption** 



Customization

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