

*New Innovations in the Chemical Industry* 

# Enterprise Product Development

SAP Chemical Executive Advisory Council � September 19, 2023





Since 2000, we've been helping companies be more of what they aspire to be with SAP—innovative, sustainable, productive, and profitable.

# **Solutions for:**

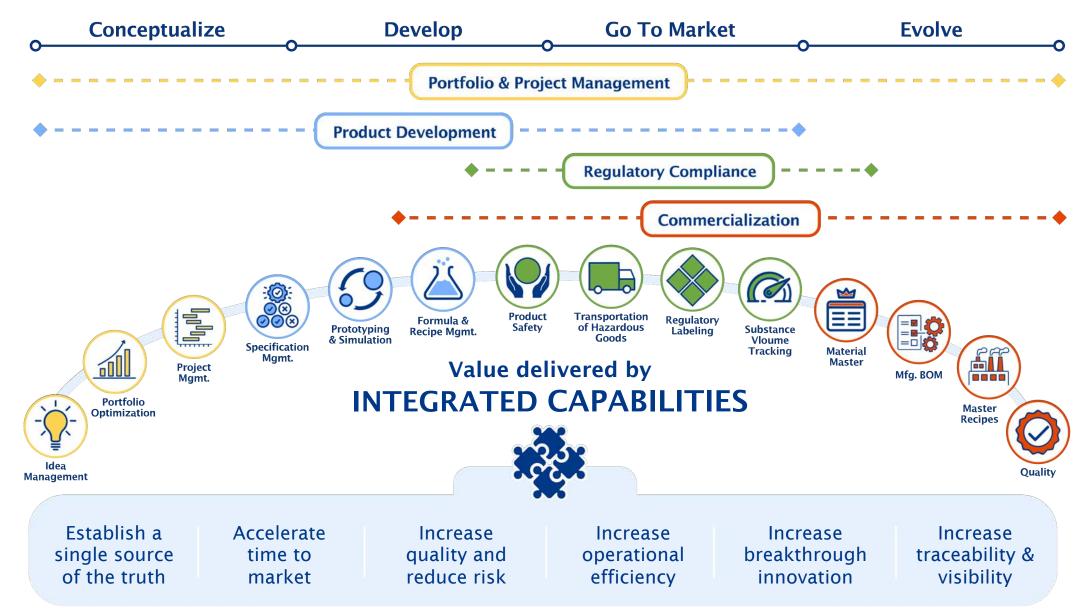
- Product Lifecycle Management
- Environment, Health & Safety
- Sustainability
- Enterprise UX & Emerging Tech





### INTEGRATING PEOPLE, PROCESSES & DATA ACROSS THE ENTERPRISE





# IS PRODUCT DEVELOPMENT LEAKING PROFITABILITY?







Schedule delays

36%



Cost overruns

35%



Inaccurate demand forecast

29%



Customer requirements not met

27%



Product pricing issues

25%



Supplier network problems

22%



Handover to manufacturing inefficiency

21%



Product quality issues

12%



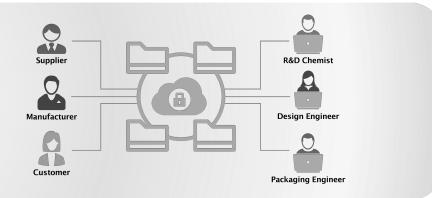
Regulatory compliance issues

#### STAKEHOLDERS IN THE COLLABORATION PROCESS



"

Collaboration in the chemical industry is a balance between IP protection and unleashing product innovation.



#### Supplier

- Sales/Marketing
- R&D
- Production
- Procurement
- Logistics
- Quality
- Regulatory
- Management
- Legal

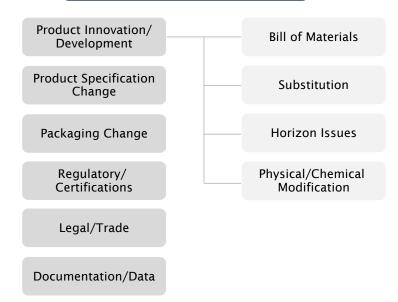
#### Customer

- Sales/Marketing
- R&D
- Production
- Procurement
- Logistics
- Quality
- Regulatory
- Management
- Legal

#### End User

- Sales/Marketing
- R&D
- Procurement
- Quality
- Regulatory
- Legal

#### Collaboration Topics

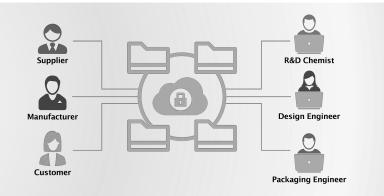


### TYPES OF INFORMATION TRANSFERRED



"

Collaboration in the chemical industry is a balance between IP protection and unleashing product innovation.



#### Non-CBI-Managed Information

- Publications
- Patents
- Registrations -Gov/Non-Gov
- Trade Literature (e.g., Prod Literature, SDS, Labels)

#### CBI-Managed Information

- Legal Agreements/NDAs
- Product Sampling
- Application Testing
- Health & Safety Testing
- Supplier Site(s) Auditing
- Quality Review
- Due Diligence Assessment
- Legal Review
- Logistic Review
- Transaction Structure Assessment

- Product Data
- Product & Application Study Reports
- Final Product Specification
- Final Product Composition
- Final Packaging Specifications
- Final Product Labeling
- Final Bill of Materials
- Final Product Recipes
- Initial Business & Production Plan

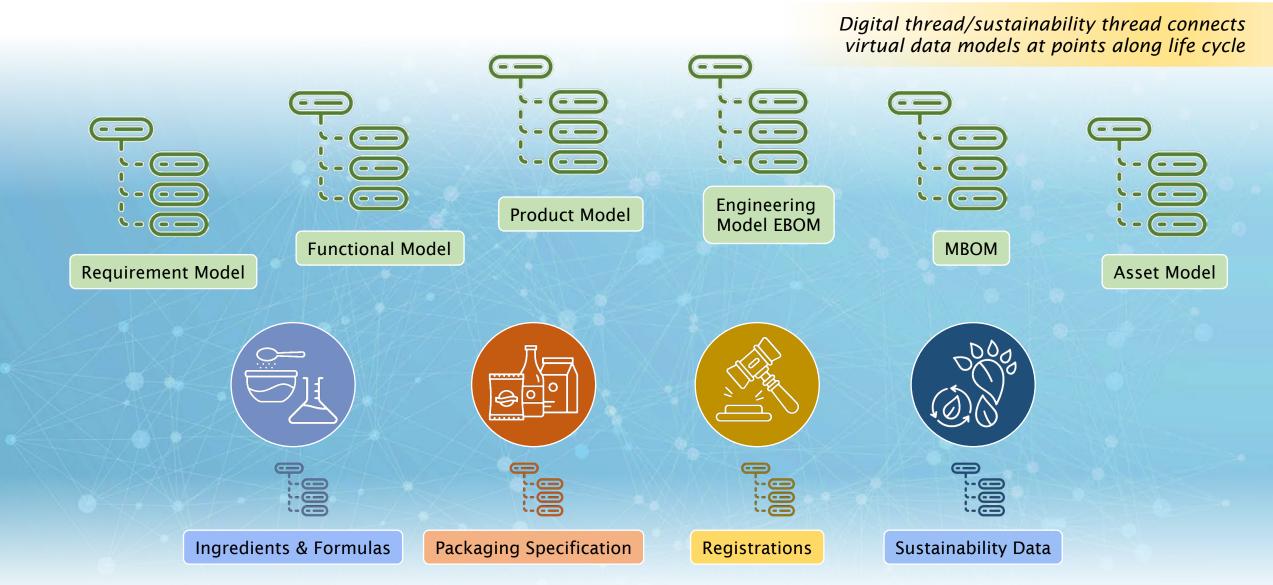


Manufacturing CIOs face issues when supporting digitalization initiatives based on siloed application landscapes and broken processes. Application modernization and integration are indispensable, but need a <u>fundamentally new approach</u>.

Successful Manufacturing Digitalization Requires Application Modernization and Integration Gartner, November 2020

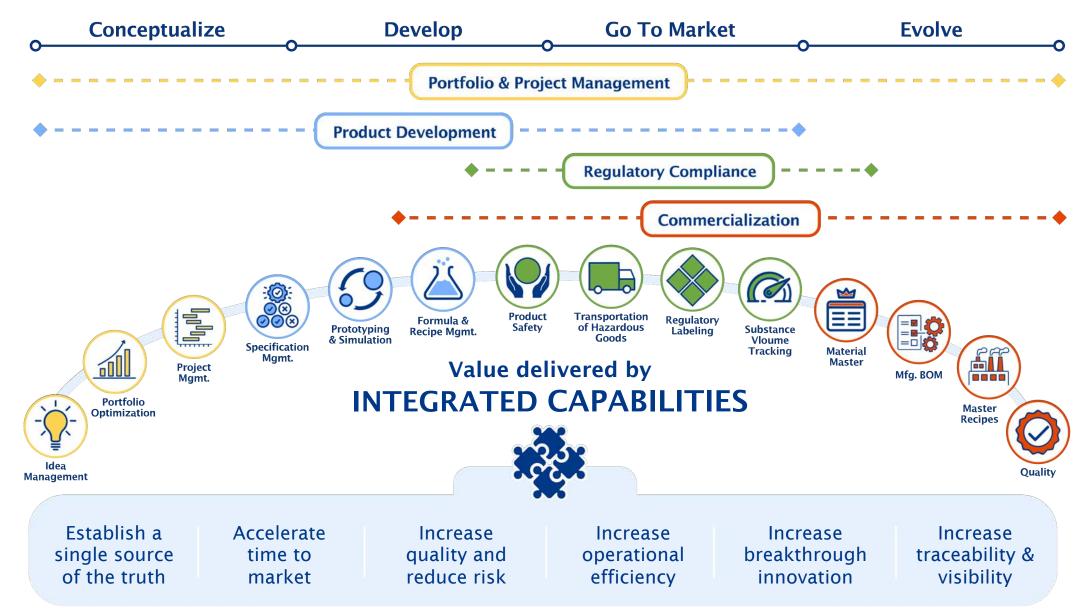
### TWINS AND MODELS AND THREADS





### INTEGRATED PLATFORM TO ENABLE THE DIGITAL TWIN & THREAD





# UK PLASTIC PACKAGING TAX









PRIMARY PACKAGING

#### Packaging:

- 1 pc of Plastic Container
- 1 pc of Plastic Cap
- (1 pc of Label)



#### Tray of 15 Soap Bottles SECONDARY PACKAGING

#### Packaging:

- 1 pc of Tray
- 1 pc of Shrink Film



#### Pallet of 30 Cartons

TERTIARY PACKAGING

Pallet: 30 CARTONS

#### Packaging:

- 1 pc of Pallet
- 5 m of Stretch Film



Sales Volume/Forecast



Tax
Calculation/Report



Data Export/3<sup>rd</sup> Party



Integration to Sustainability Solutions

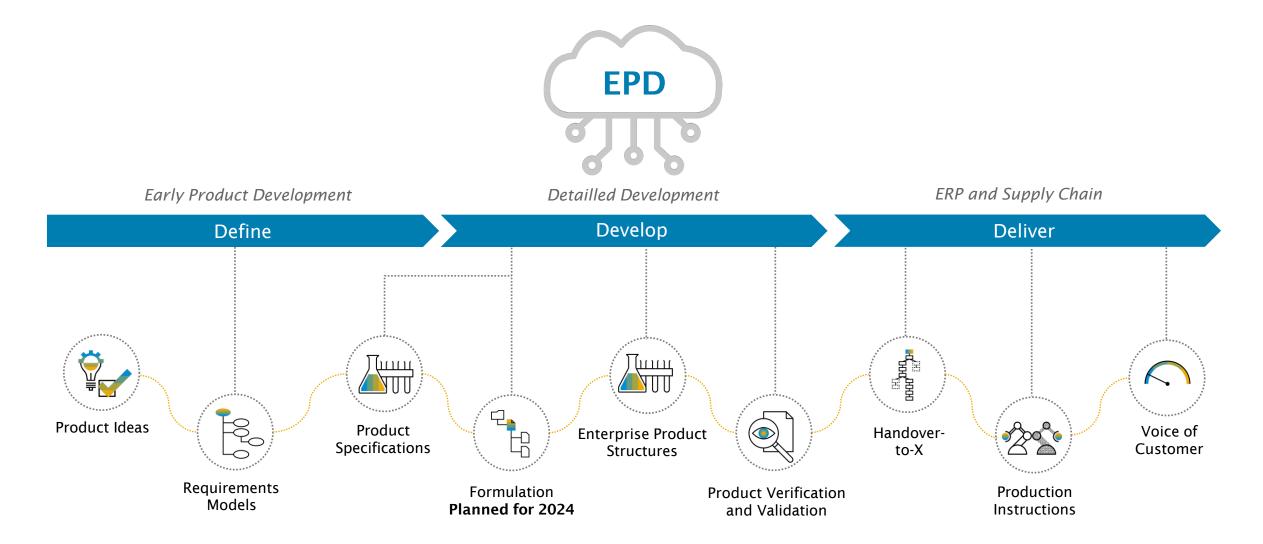
# PRODUCT SPECIFICATION COLLABORATION





### IDEA-TO-MARKET WITH SAP ENTERPRISE PRODUCT DEVELOPMENT

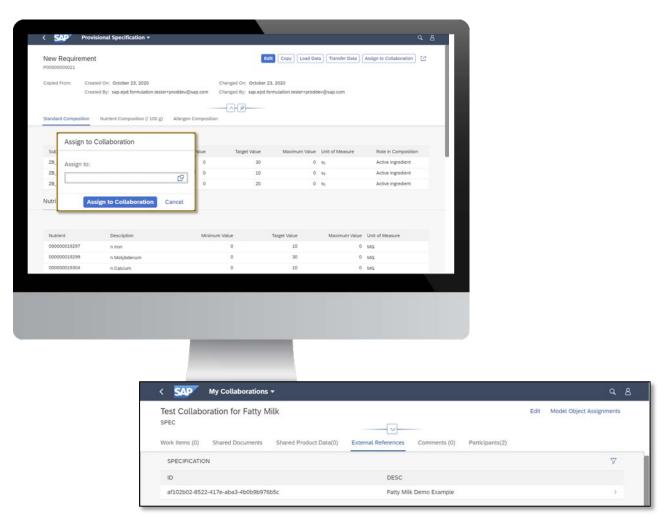




#### SAP ENTERPRISE PRODUCT DEVELOPMENT - COLLABORATION

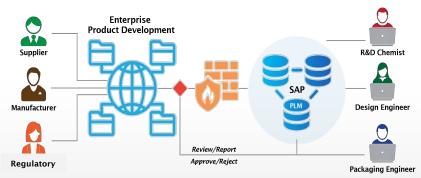


# Collaboration with structured product data - specification



- Collaborate on specifications with external stakeholders
- Setup of specification structure for the collaboration and load lists like nutrients, substances, allergens value to enable the maintenance
- Reduced manual work and collaboration cycle times & increased quality of collaboration with structured objects for process industries
- Share specifications from S/4 on premise





Solution design and delivery included EPD collaboration with third-party manufacturers and packaging suppliers.



# **Global Personal Care & Cosmetics Company**



INDUSTRY:
Consumer Products
Cosmetics

#### **BUSINESS CHALLENGE**

A global beauty company faced critical challenges due to disparate R&D systems across global regions—minimal integration between PLM, ERP, and supporting systems; performance & scalability restraints; costly maintenance; and inflexibility amid dynamic sustainability pressures. The mounting risk, both from a quality and regulatory perspective, demanded a full transformation strategy to unite product data and R&D processes.

#### **SOLUTION**

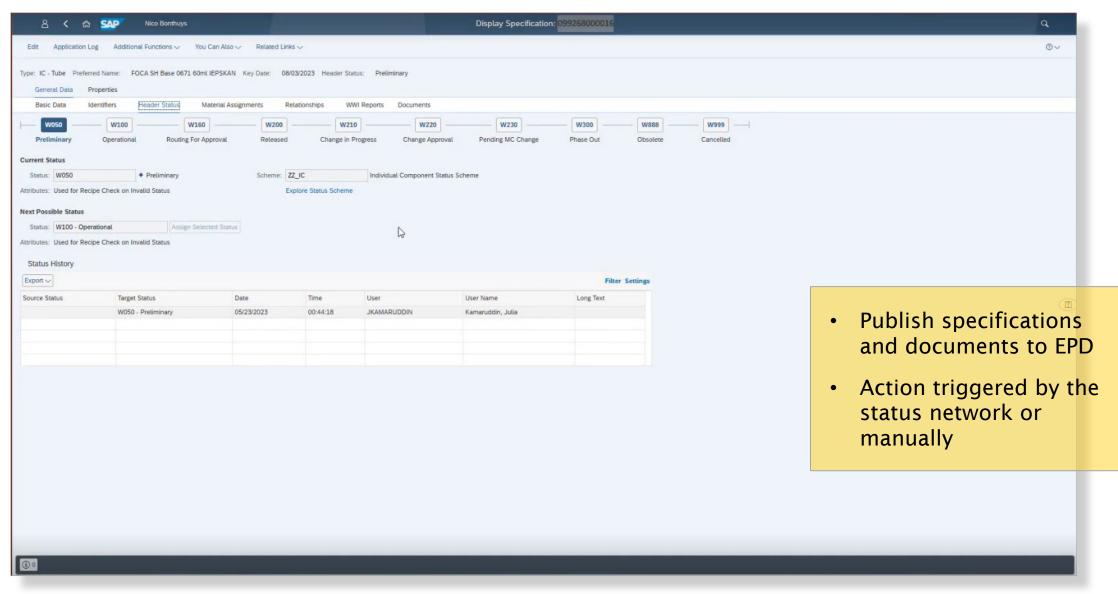
Linx-AS architected a platform for sustainable product development. Using industry best practices, Linx-AS standardized the data model and streamlined business processes, creating a single version of the truth for product data across categories.

#### **TECHNOLOGY**

SAP Recipe Development, Labeling, Packaging/Artwork integration, Enterprise Product Development (collaboration)

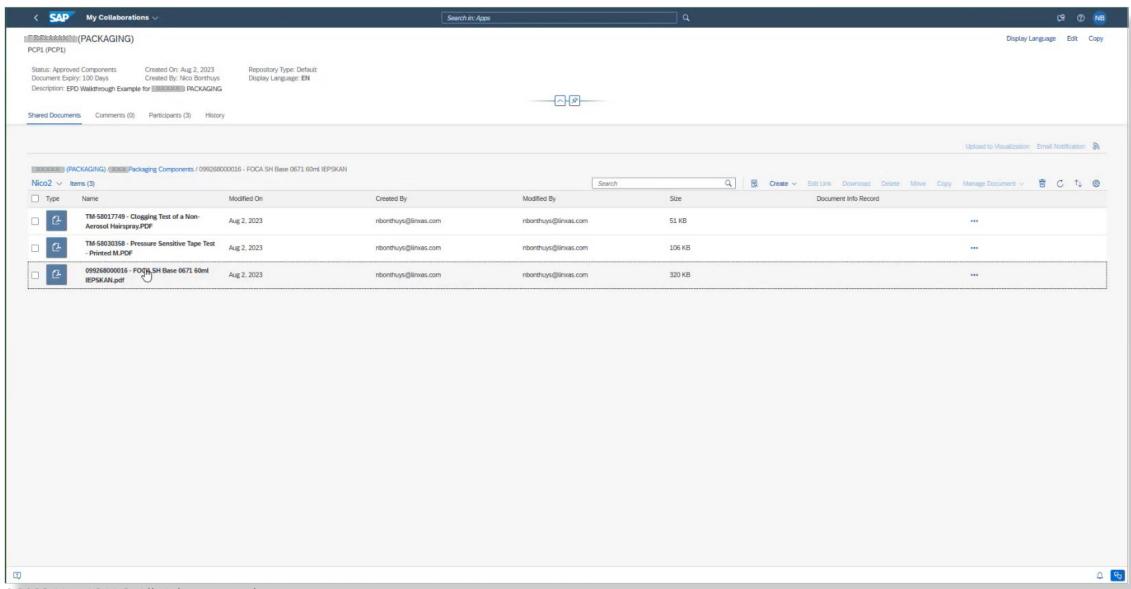
### SPECIFICATION STATUS NETWORK





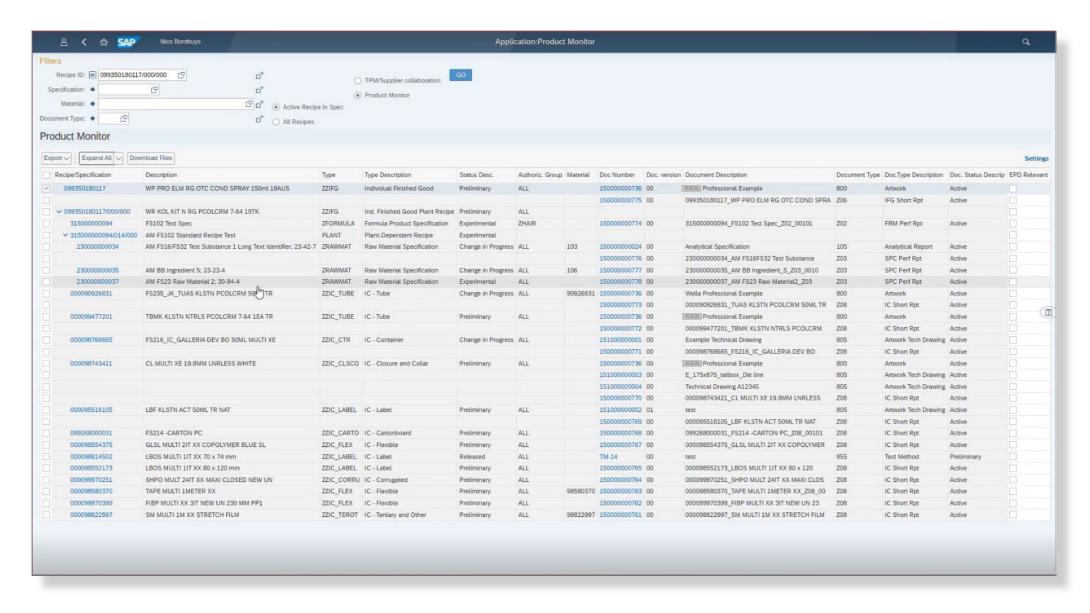
### SPECIFICATIONS AND DOCUMENTS IN EPD





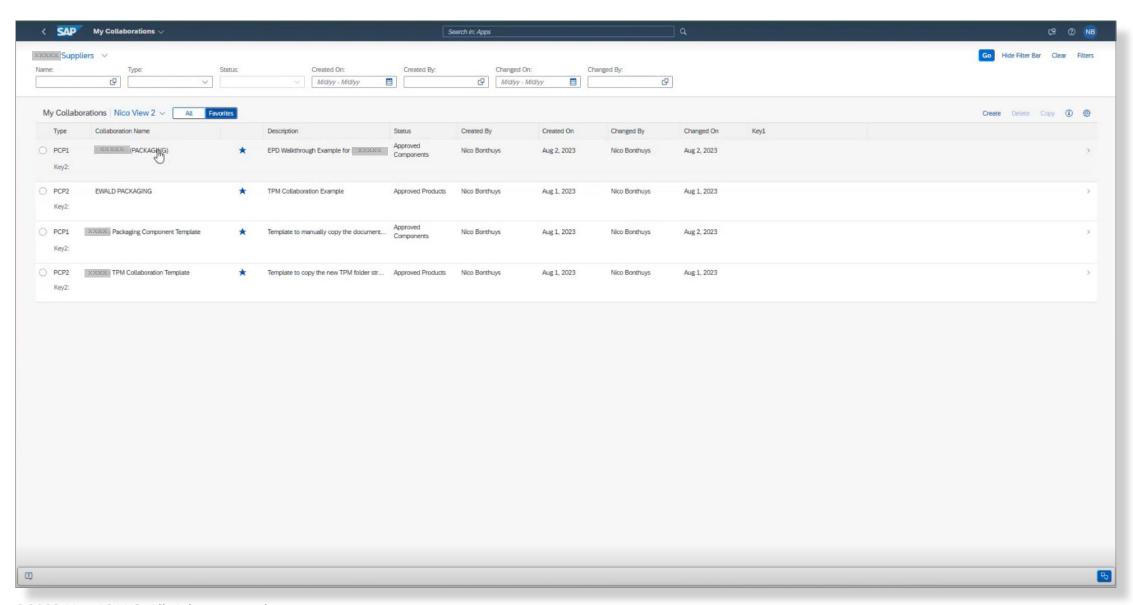
#### MANUAL: PICK SPECIFICATION AND DOCUMENTS FROM PRODUCT MONITOR





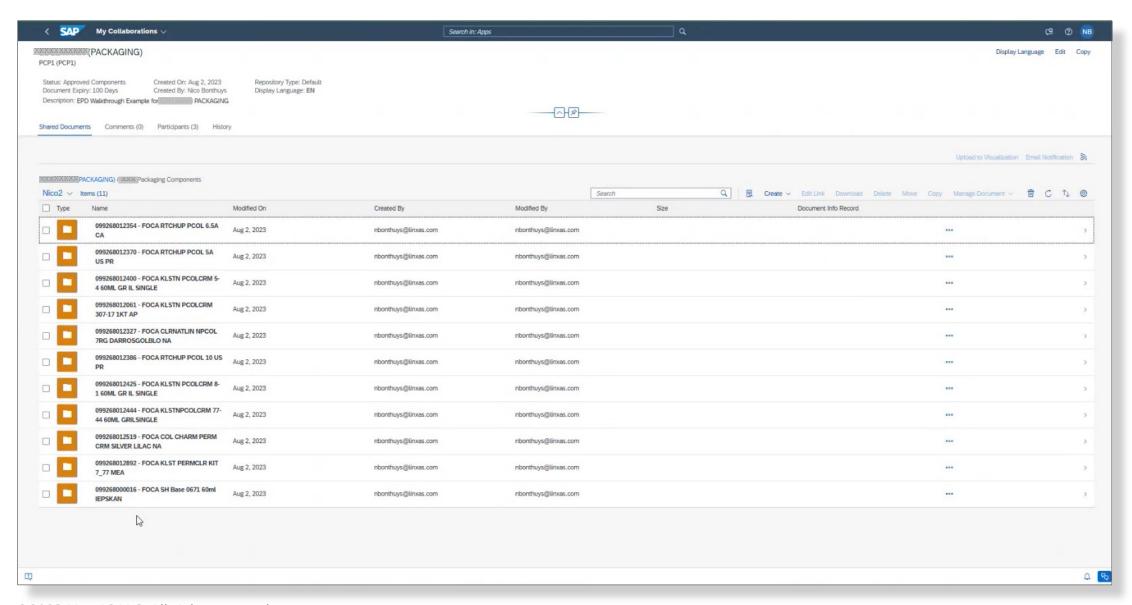
# PICK THE COLLABORATION IN EPD





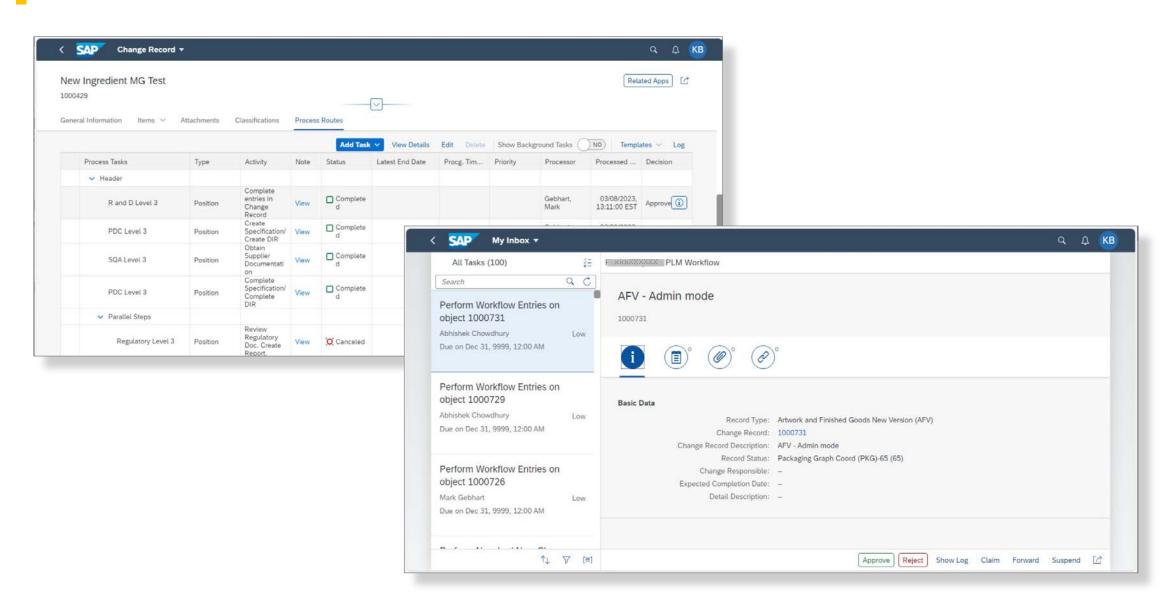
### CREATE FOLDER STRUCTURE AND DOCUMENTS





# WORKFLOW AND INBOX





#### LINX-AS VISION METHODOLOGY: STRATEGY CONSULTING



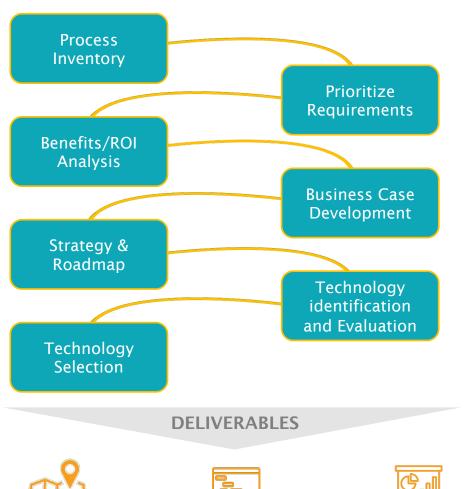


- Accelerated roadmapping process for PLM and Sustainability
- Driven by customer pain points but focused on long-term success and ROI
- Engaging stakeholder workshops to evaluate solutions and refine requirements
- Concrete deliverables for executing strategy and building business case

### LINX-AS VISION METHODOLOGY: STRATEGY CONSULTING















# HEADQUARTERS

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