



# Business Process Transformation Based on a Digital Twin of the Organization

SOUG Espresso – June 28, 2024

Dr. Thomas Karle



### **BUSINESS PROCESS TRANSFORMATION**

- Introduction
- Problem
- Challenges
- Solution
  - Digital Twin of an Organization
  - Small Example: Plant Engineering
  - Prefabricated Process Knowledge for Oracle Applications
  - Use of AI for Process Design
- Discussion

**AGENDA** 

#### **PROMATIS – BUSINESS AREAS**



#### **Excellent Business Processes and Oracle Digitization Solutions**

Project Excellence | Process Excellence | Enterprise Applications | Digitization Technologies



- Solutions based on Oracle applications & technology
- Best practices for Oracle solutions extensions & customizations



- Products for professional business process management
- Method, tools & prefabricated knowledge





### PROBLEMS & CHALLENGES TYPICAL CURRENT TRANSFORMATIONS IN COMPANIES

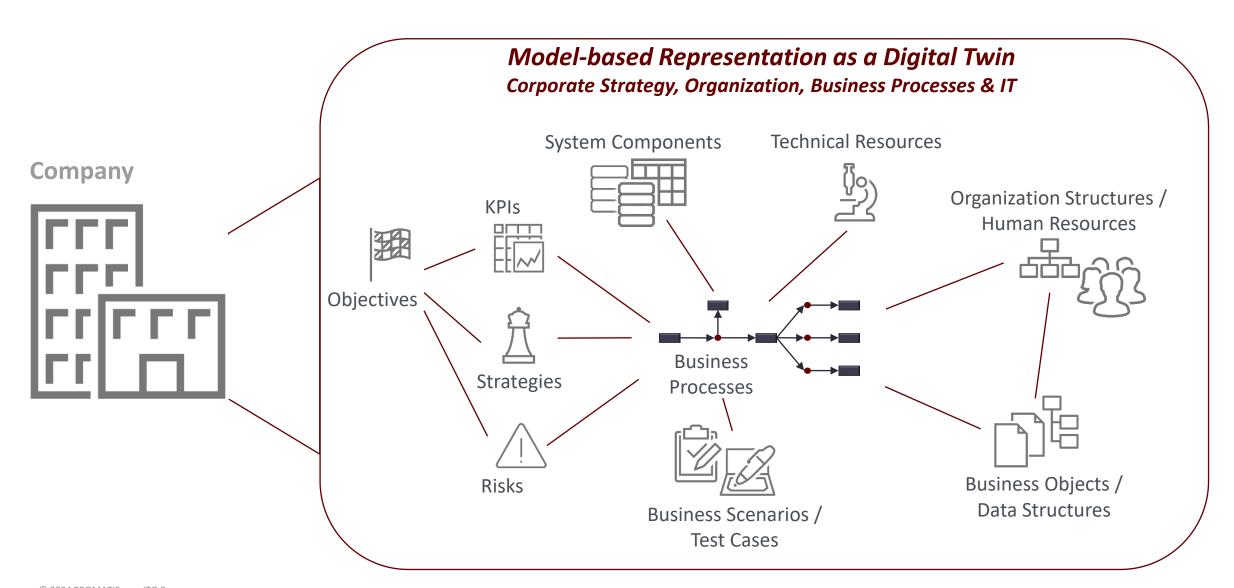
- Digital transformation / Introduction of new business software
- Green transformation
- Mergers & Acquisitions
- Changes in the business model or business processes
- Agile company
- Organizational learning



Management of high complexity & dynamics is required!

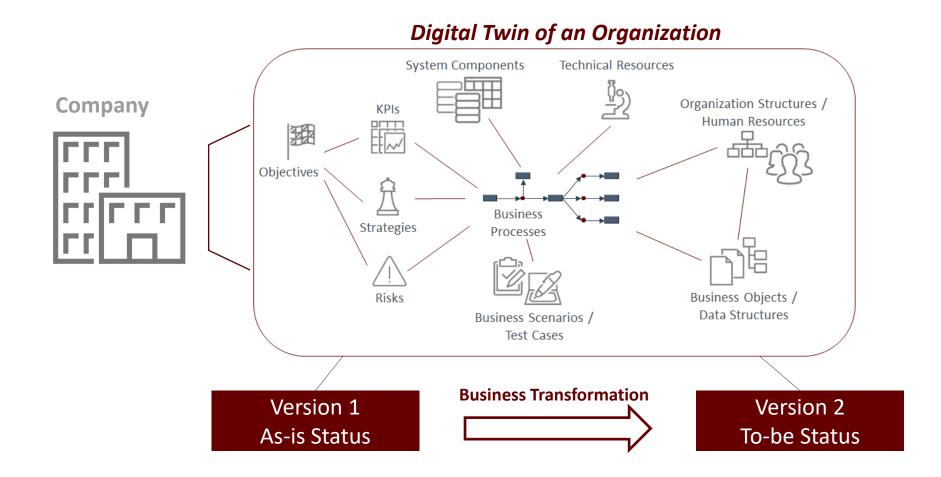
#### **BASIC SOLUTION IDEA**

### DIGITAL TWIN OF AN ORGANIZATION (DTO) - BASIS FOR TRANSFORMATIONS

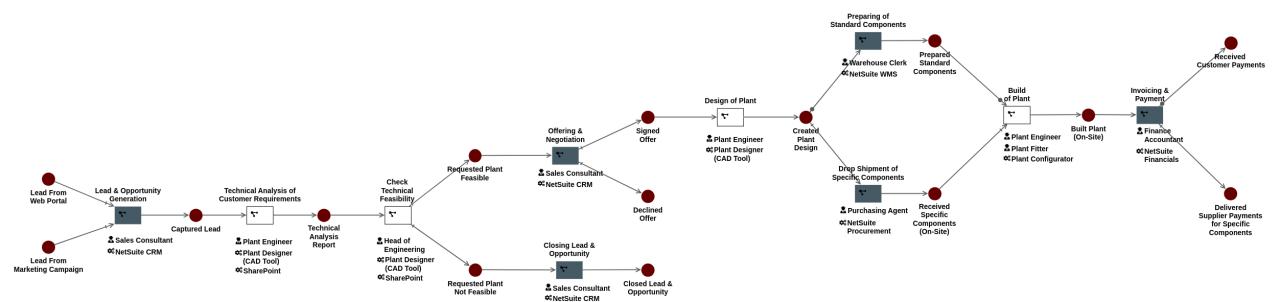


#### **BASIC SOLUTION IDEA**

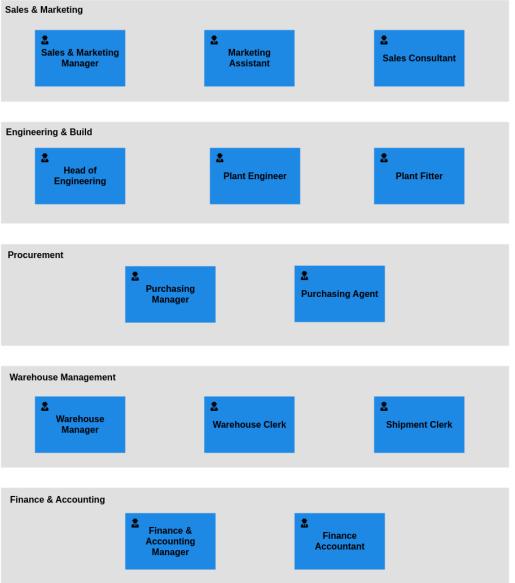
### DIGITAL TWIN OF AN ORGANIZATION (DTO) - BASIS FOR TRANSFORMATIONS



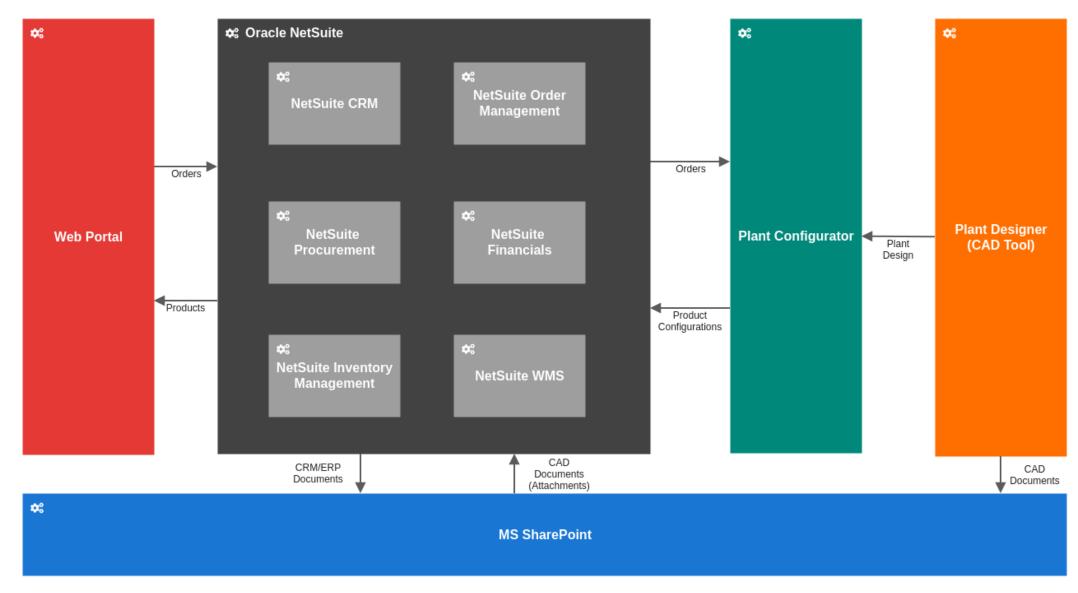
## SMALL EXAMPLE – PLANT ENGINEERING TO-BE END2END-PROCESS (LEAD2CASH)



### SMALL EXAMPLE – PLANT ENGINEERING INVOLVED BUSINESS ROLES



### **SMALL EXAMPLE – PLANT ENGINEERING**DESIGNED SYSTEM ARCHITECTURE

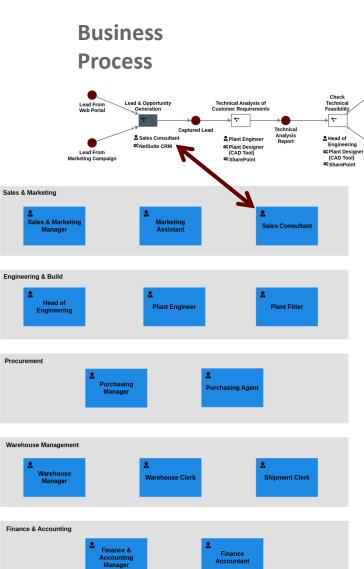


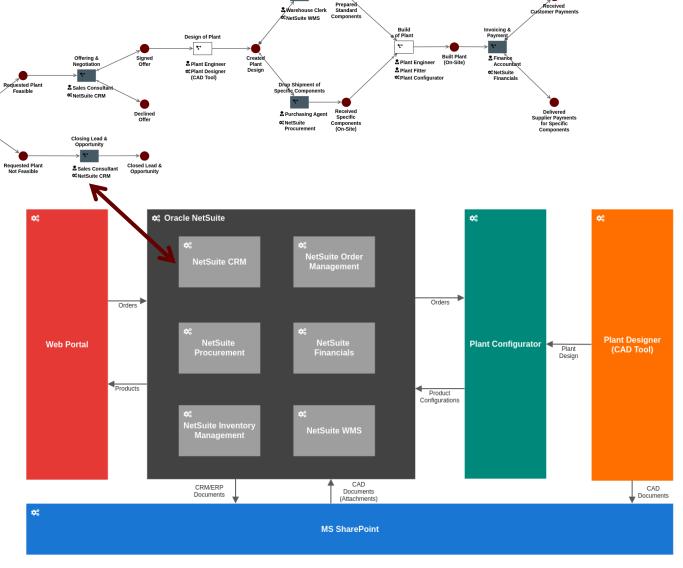
### **SMALL EXAMPLE – PLANT ENGINEERING**

**CROSS-LINKING** 

**Business** 

**Roles** 

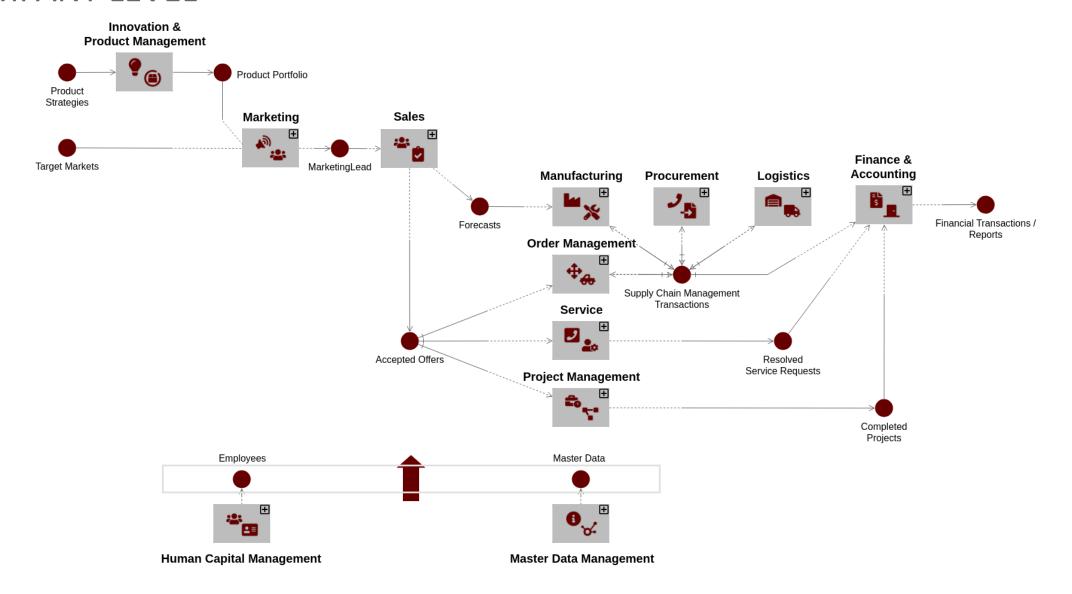




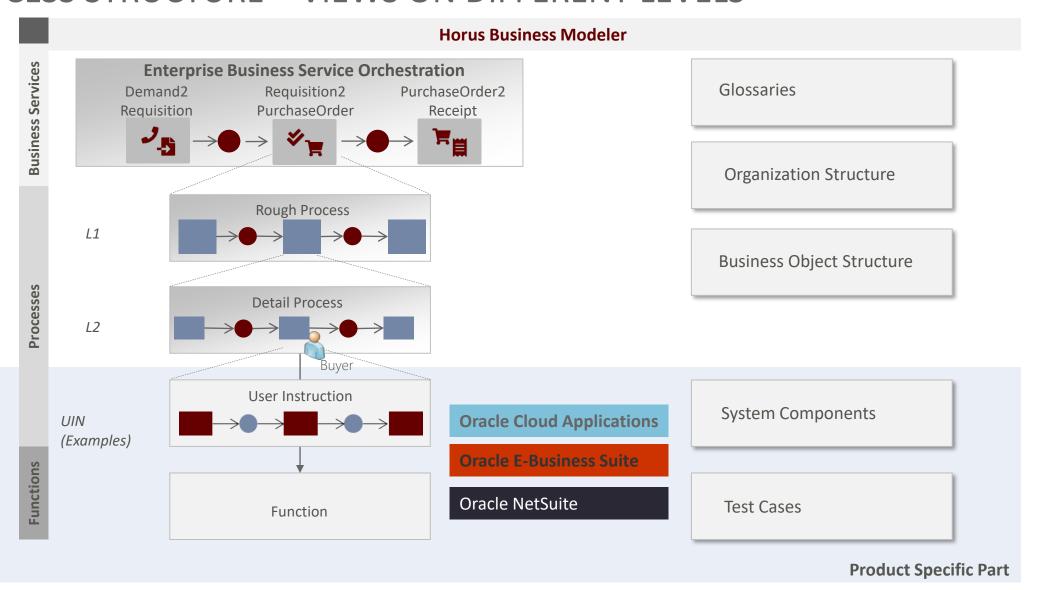
10

**System Components** 

### TYPICAL BUSINESS PROCESSES FOR BUSINESS SOFTWARE COMPANY LEVEL

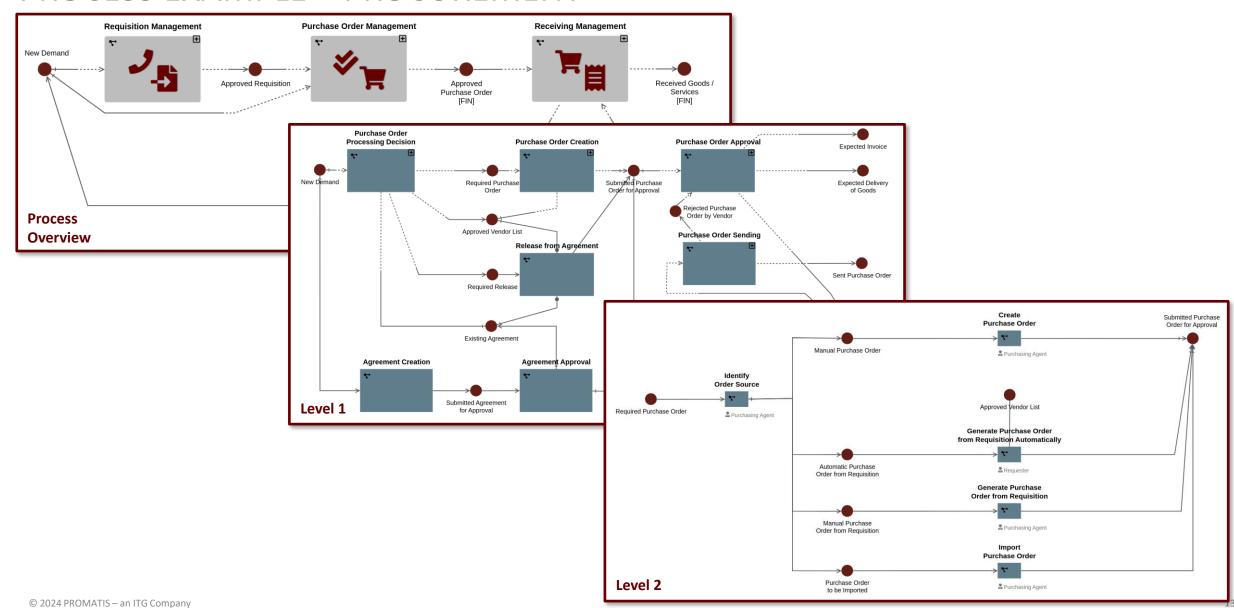


### BUSINESS PROCESSES FOR ORACLE APPLICATIONS PROCESS STRUCTURE — VIEWS ON DIFFERENT LEVELS



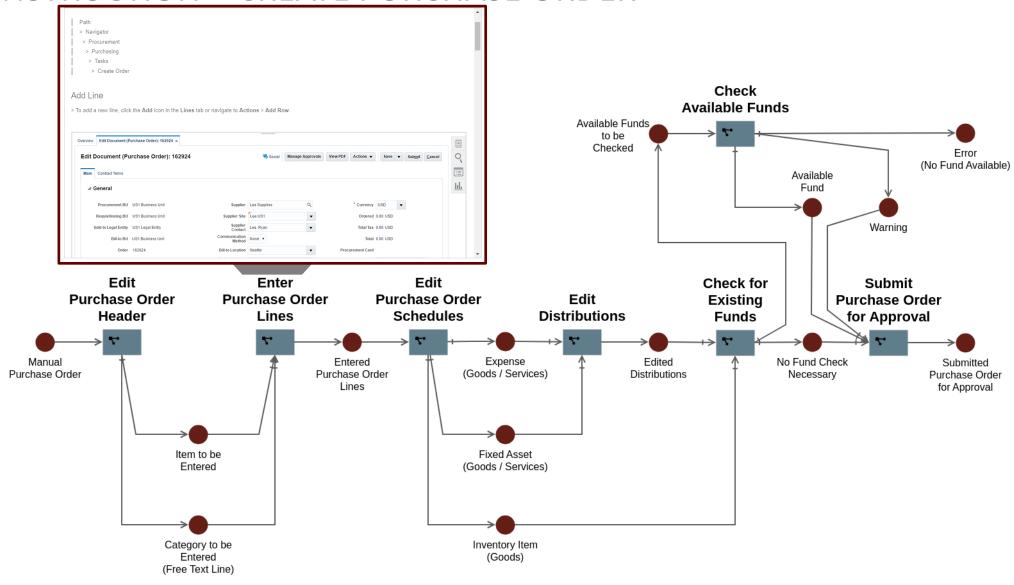
### **BUSINESS PROCESSES FOR ORACLE APPLICATIONS**

### PROCESS EXAMPLE - PROCUREMENT



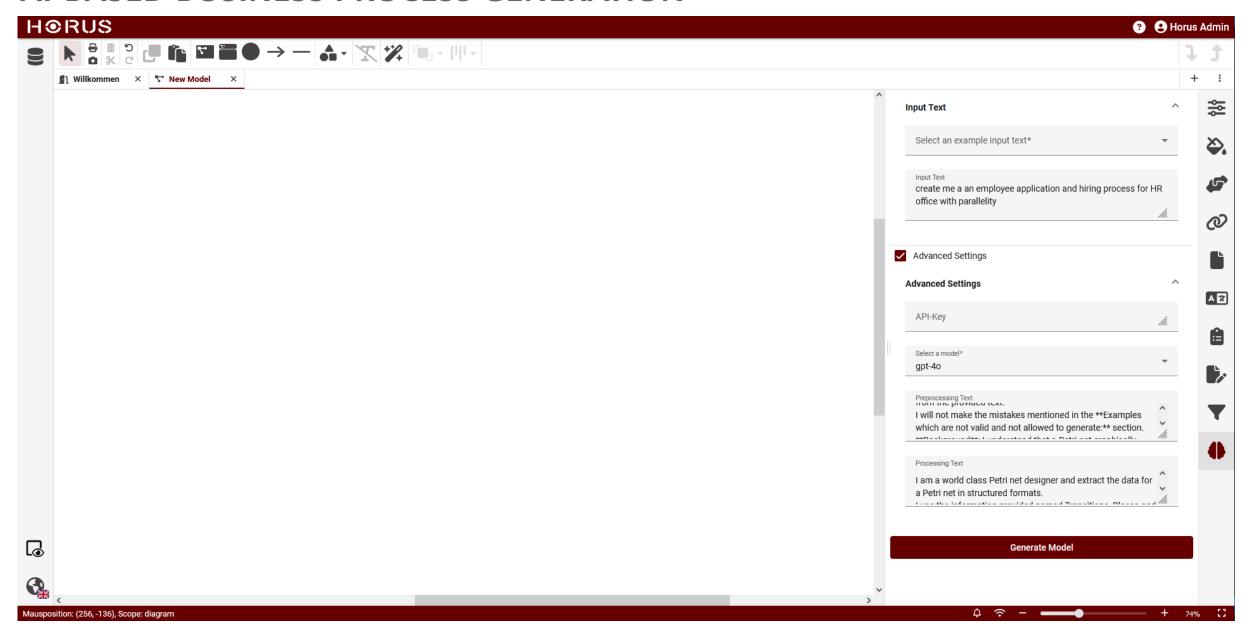
### **BUSINESS PROCESSES FOR ORACLE APPLICATIONS**

USER INSTRUCTION – CREATE PURCHASE ORDER



© 2024 PRUMAIIS – an II G Company

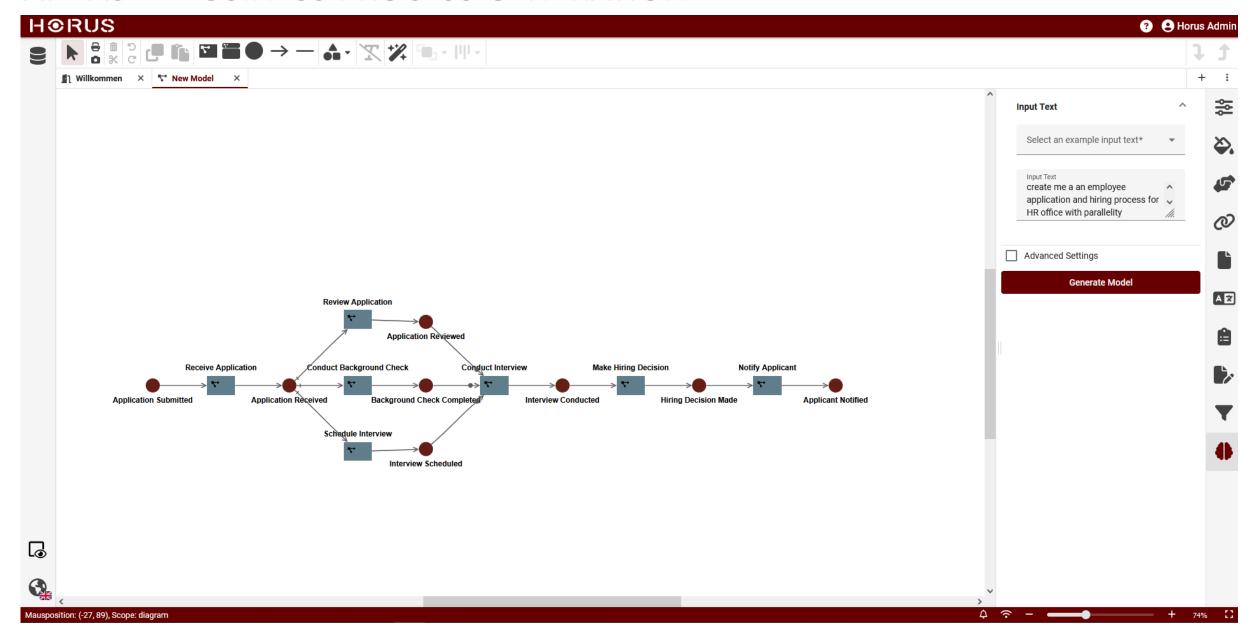
### **AI-BASED BUSINESS PROCESS GENERATION**



© 2024 PROMATIS – an ITG Company

15

### **AI-BASED BUSINESS PROCESS GENERATION**



### **AI-BASED BUSINESS PROCESS GENERATION**

