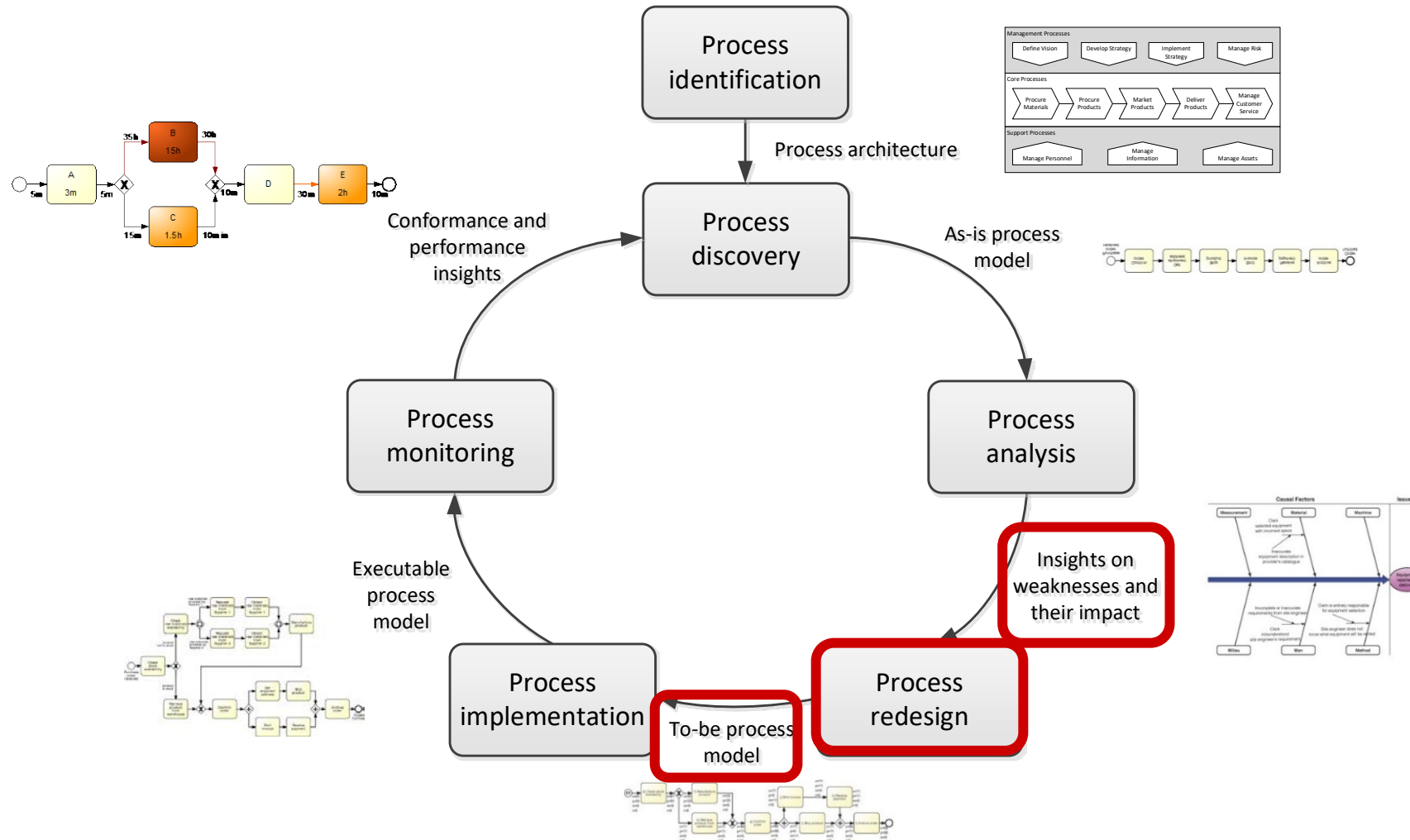
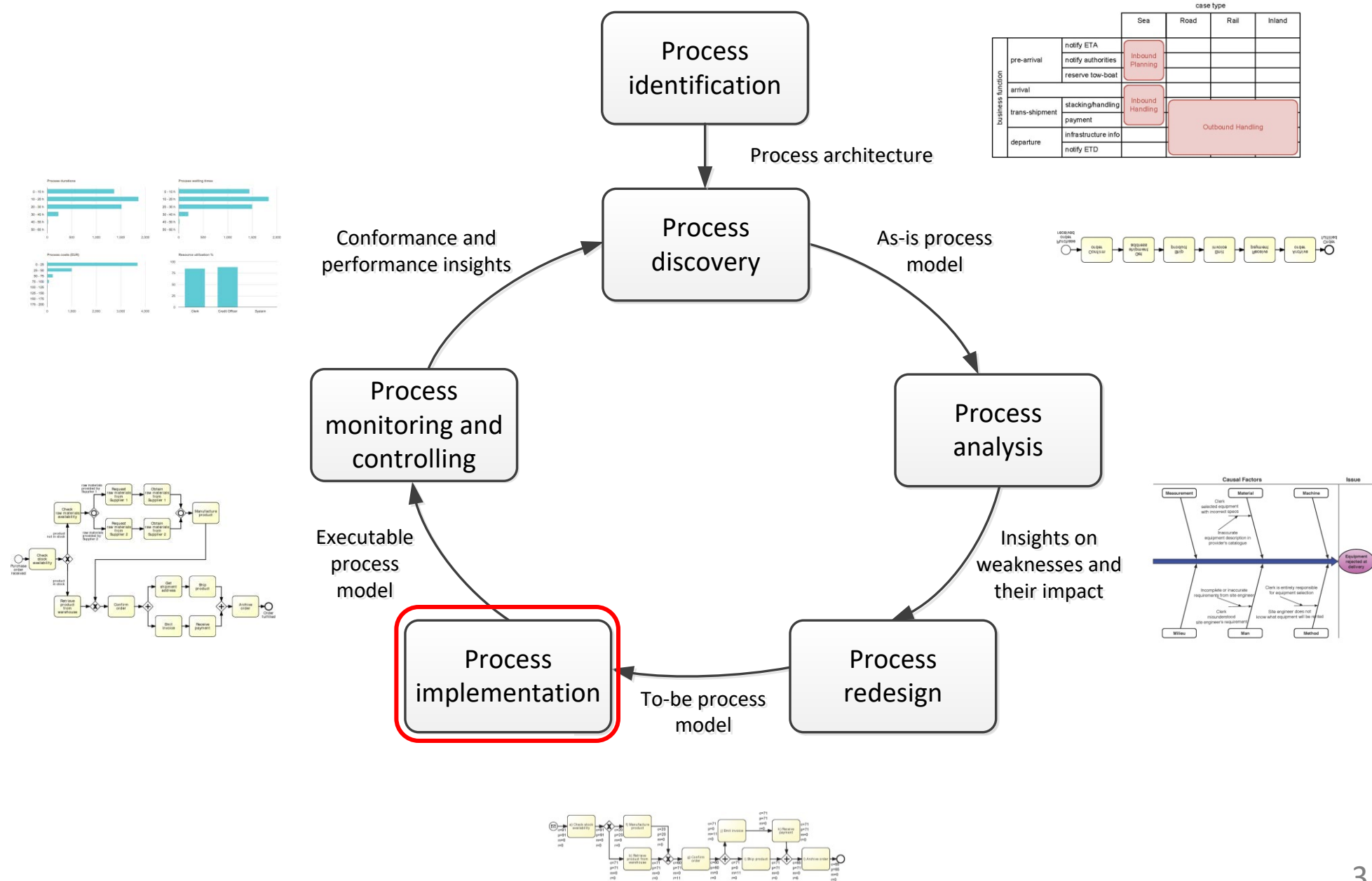


# Business Process Management (9)

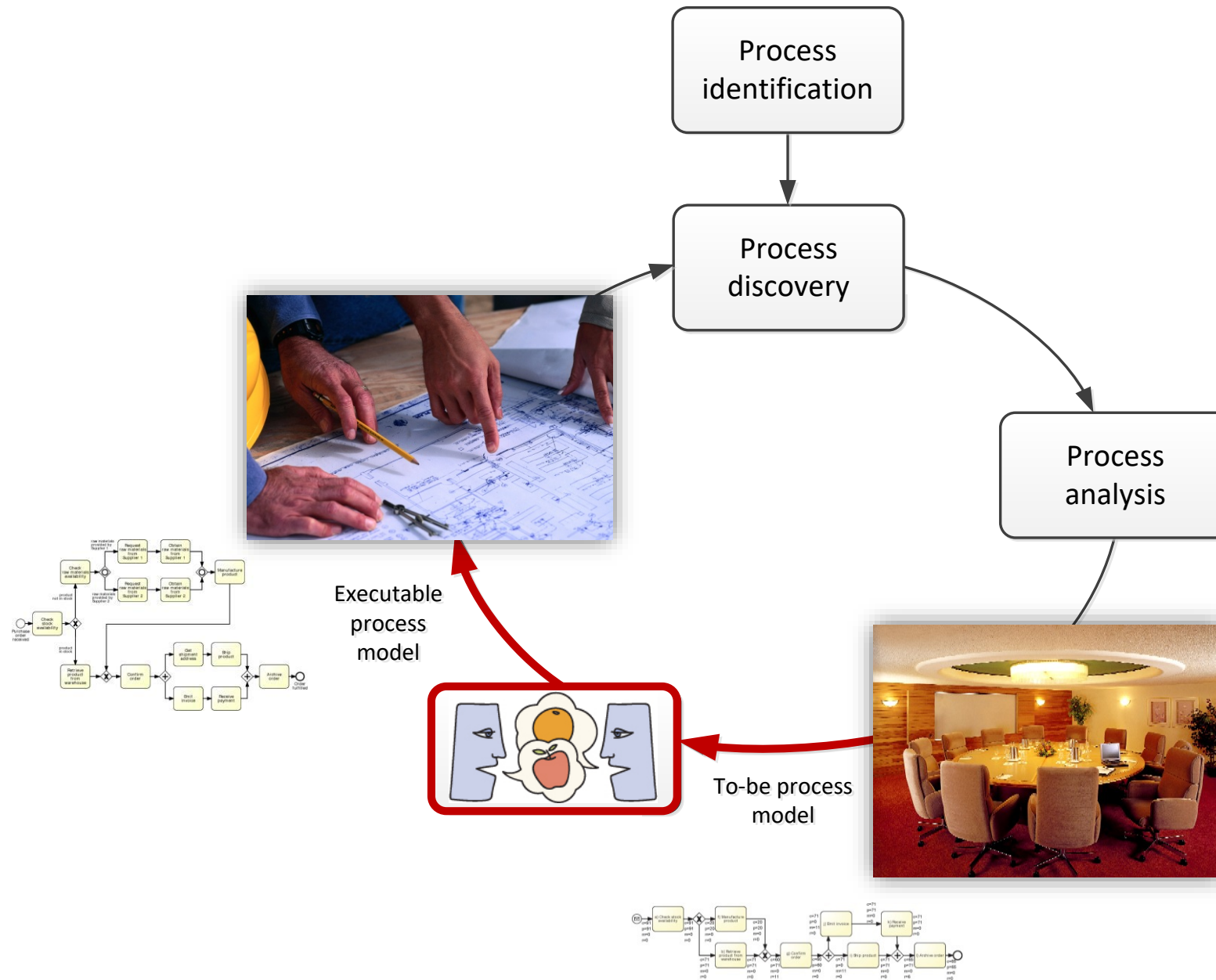
# Process Redesign



# Where are we?



# The business-engineering gap...



# Two sides of the BPM story

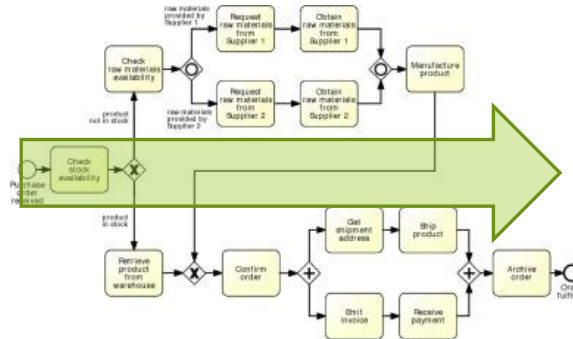
## Conceptual “to-be” process models

- are made by domain experts
- provide a basis for communication amongst relevant stakeholders
- must be understandable
- must be intuitive and may leave room for interpretation
- contain purely a relevant set of process information



## Executable process models

- are made by IT experts
- provide input to a process enactment system - BPMS
- must be machine readable
- must be unambiguous and should not contain any uncertainties
- contain further details that are only relevant to implementation



“to-be executed”  
process model

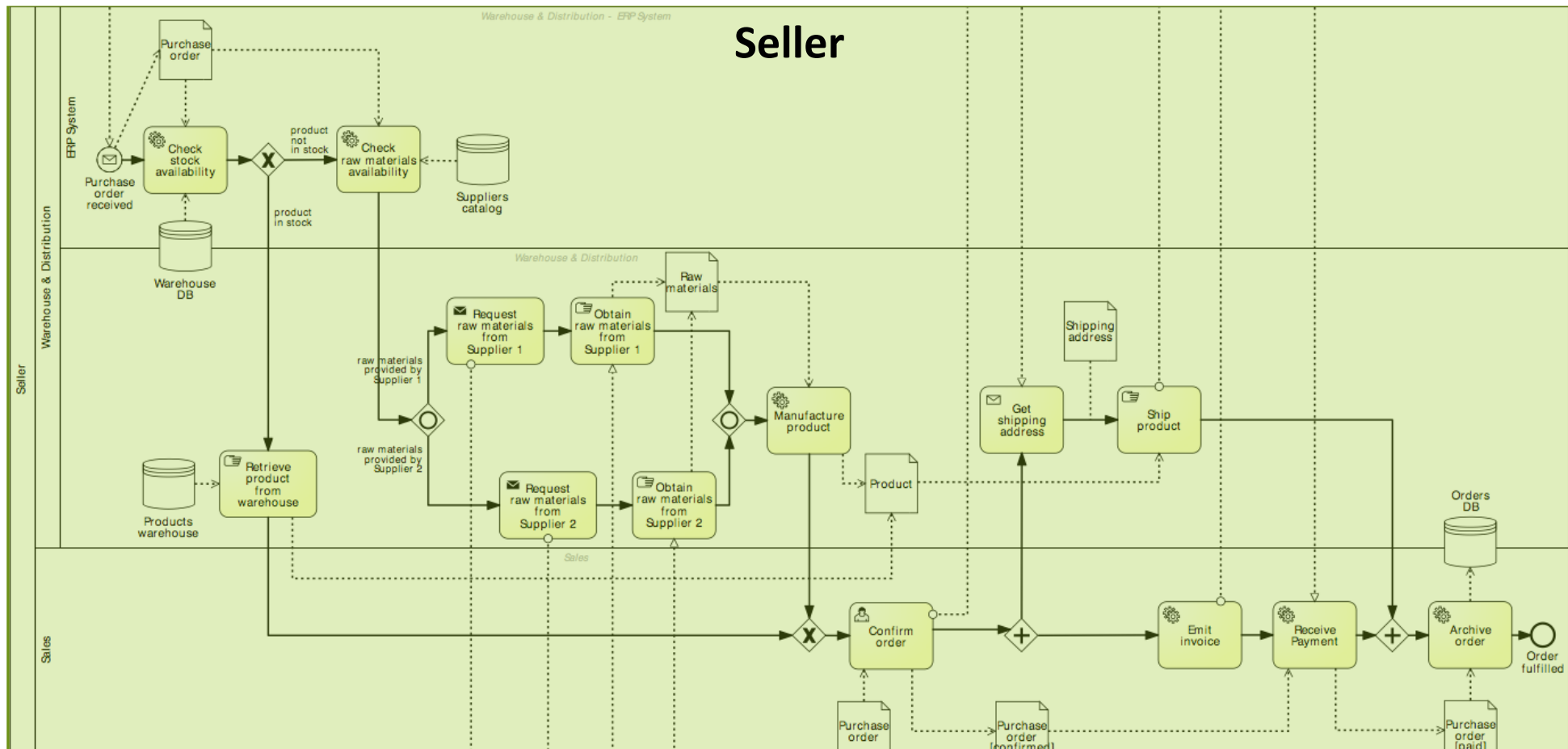
# Bridging the gap: A five-step method

1. Identify the automation boundaries
2. Review manual tasks
3. Complete the process model
4. Adjust task granularity
5. Specify execution properties

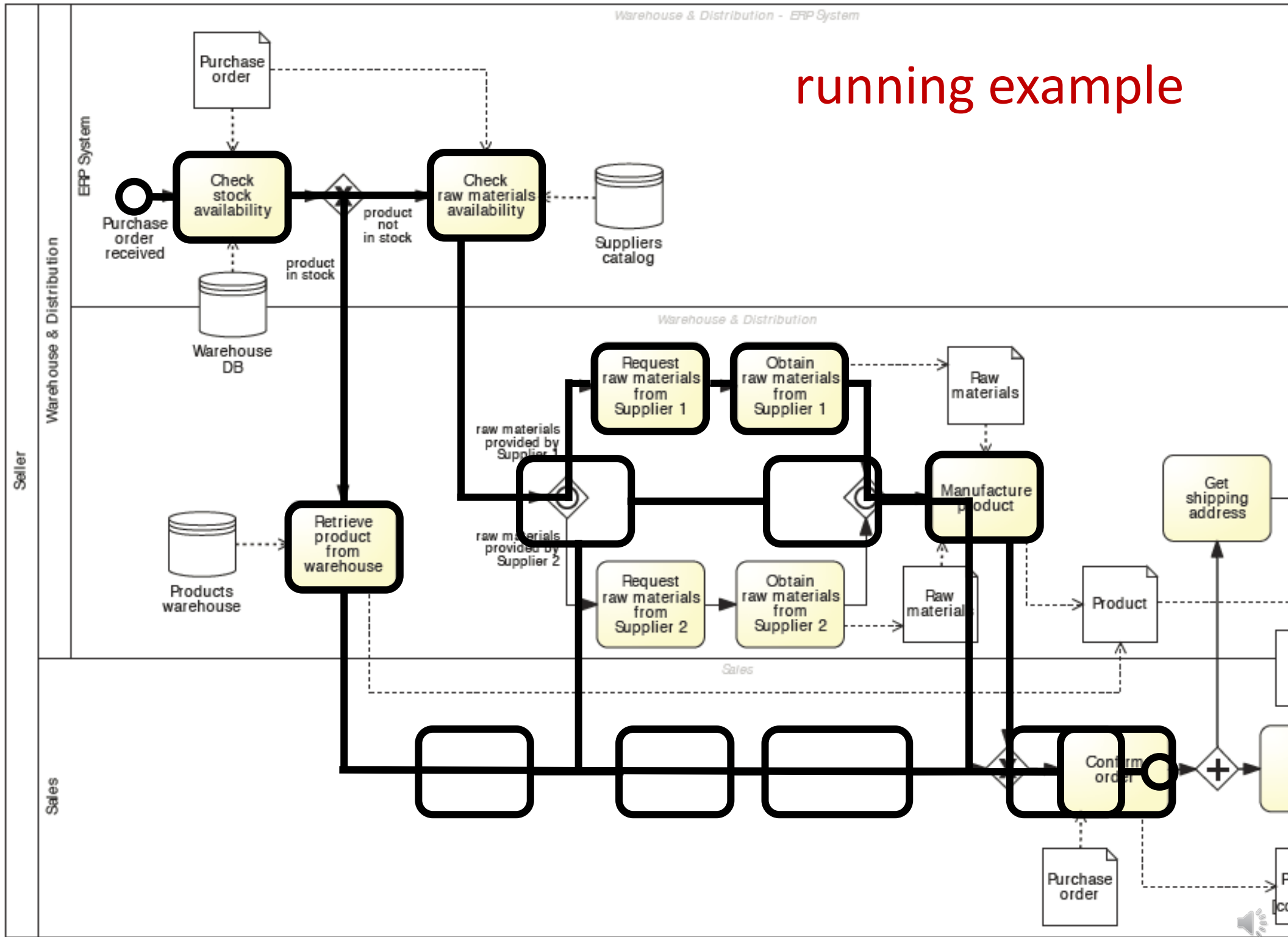




# Running example



## running example





# 1. Identify the automation boundaries

**Principle:** not all parts of a process can be automated.

-> Start by identifying each task's type:

1



Automated tasks

2



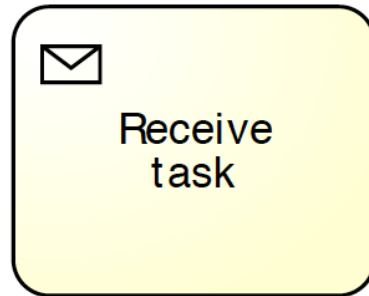
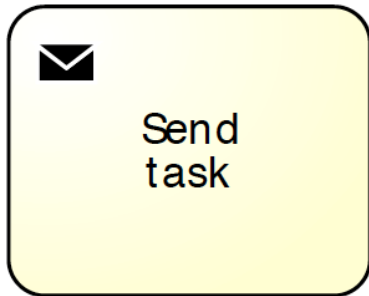
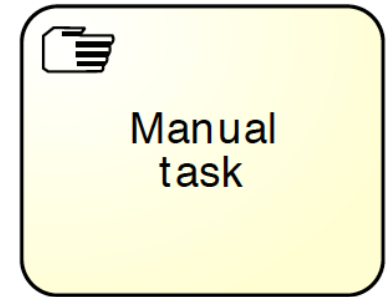
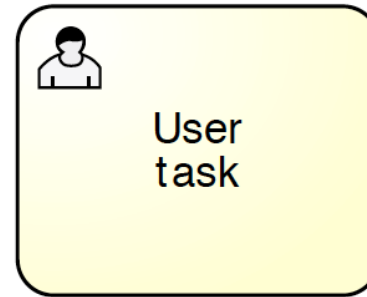
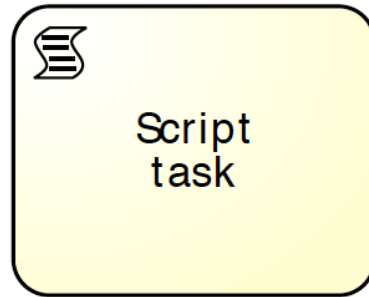
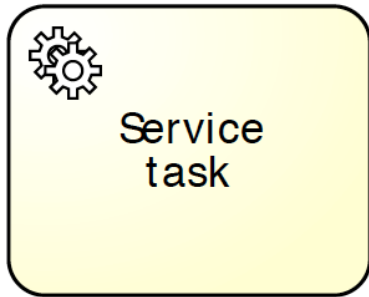
User tasks

3



Manual tasks

# In BPMN: specify task markers



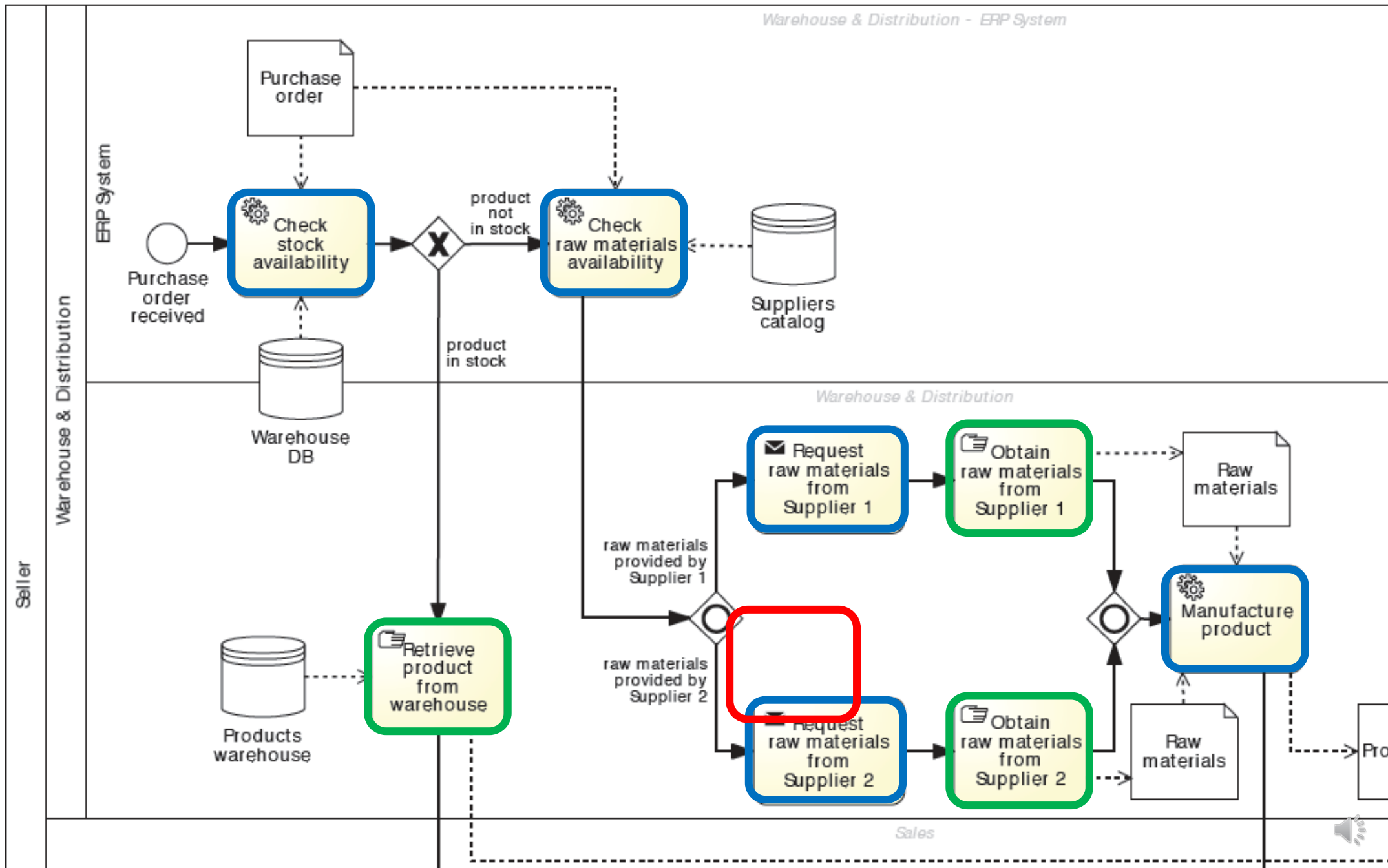
Automated tasks

User task

Manual task

# In our example...

- automated
- user
- manual



## 2. Review manual tasks

**Principle:** if it can't be seen by the BPMS, it doesn't exist.

-> Find ways to support manual tasks via IT:

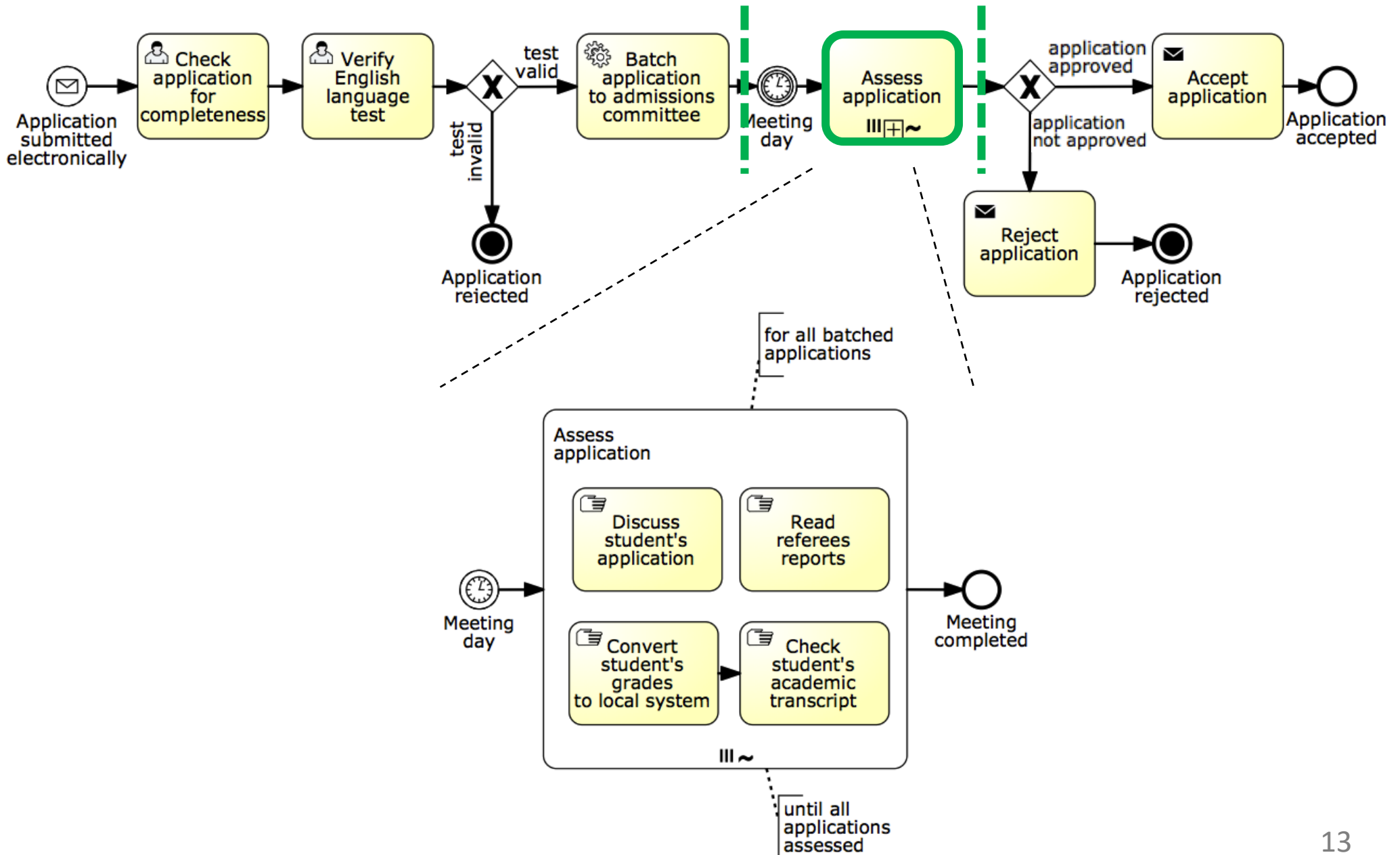
- via user task
- via automated task

-> Isolate them and automate the rest





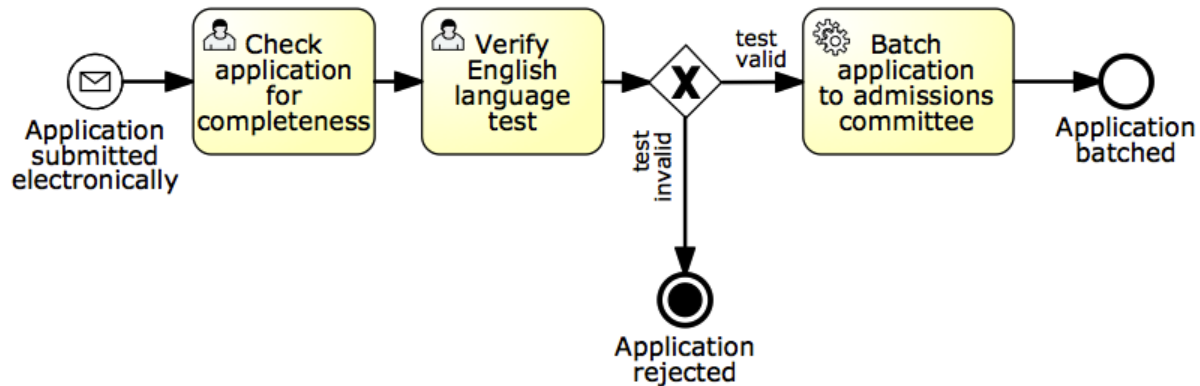
# Alternative: isolate manual tasks



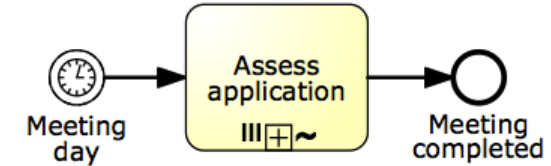
# Alternative: isolate manual tasks



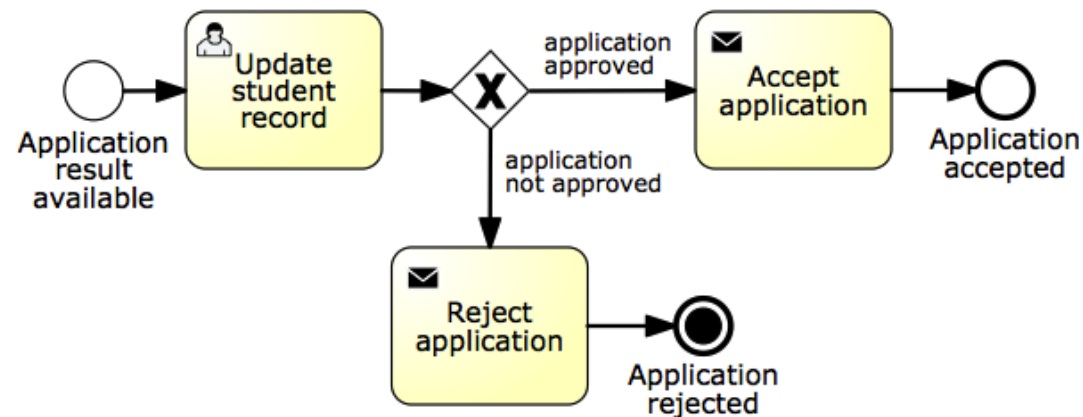
## Segment 1



## Segment 2



## Segment 3



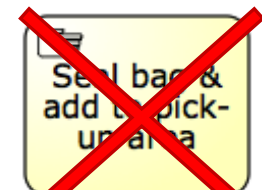
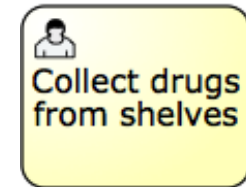


# Quiz: let's consider this process fragment

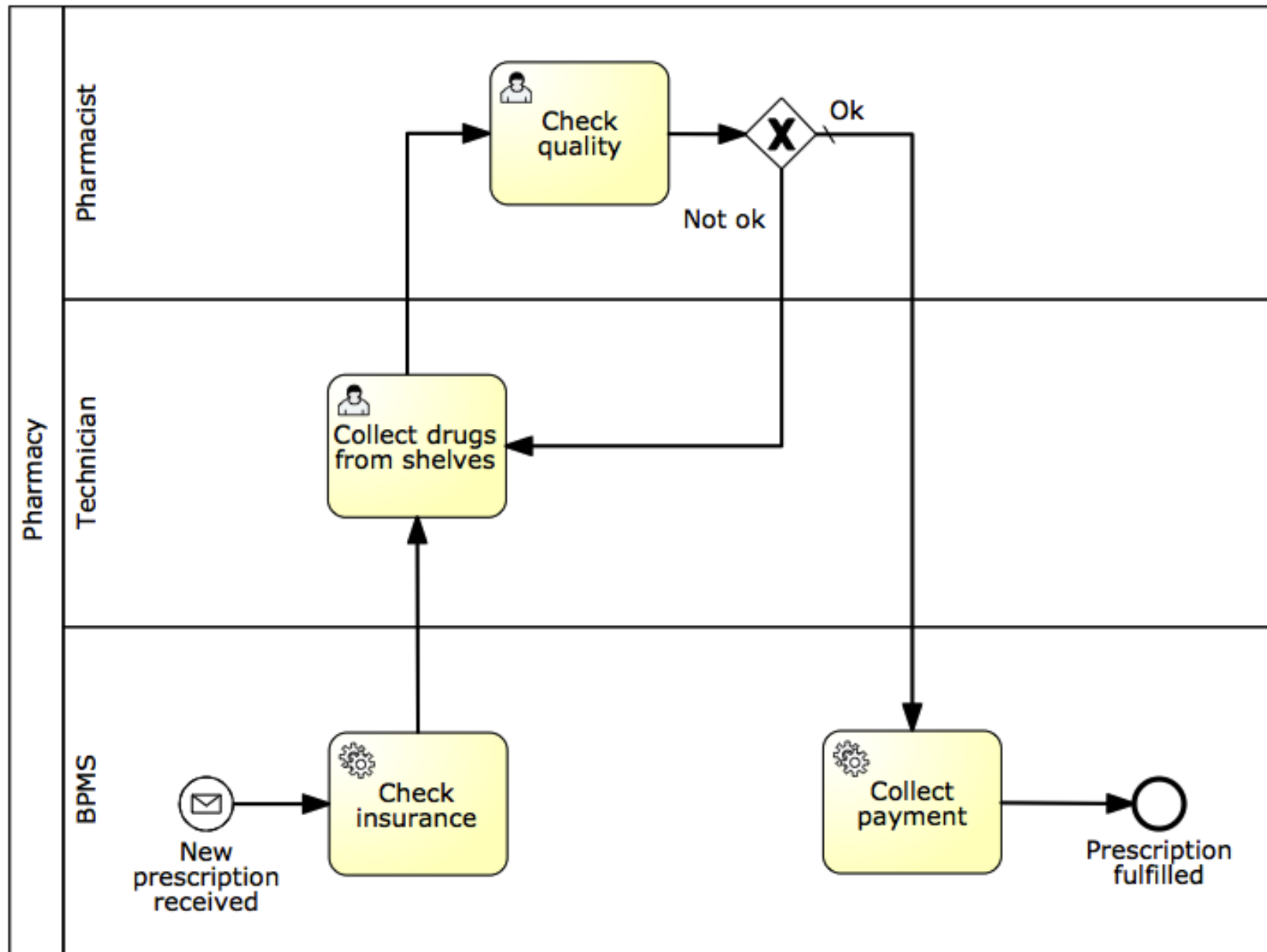
## Prescription fulfillment process:

- Once the prescription passes the insurance check, it is assigned to a technician who collects the drugs from the shelves and puts them in a bag with the prescription stapled to it.
- After that, the bag is passed to the pharmacist who double-checks that the prescription has been filled correctly.
- After this quality check, the pharmacist seals the bag and puts it in the pick-up area.
- When a customer arrives to pick up their prescription, a technician retrieves the prescription and asks the customer for their payment.

**Assume the pharmacy system automates this process. Identify the type of each task and link manual tasks to the system.**



## Possible solution



# Questions

