



Theory

01 | Task Types



Theory

01 | Task Types

02 | Non Interrupting Events



Theory

01 | Task Types

02 | Non Interrupting Events

03 | Complex Gateway



Theory

01 | Task Types

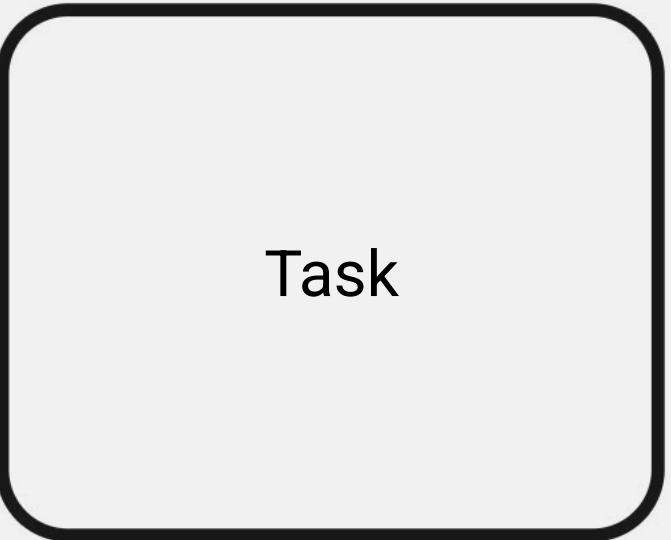
02 | Non Interrupting Events

03 | Complex Gateway

04 | Additional Participant

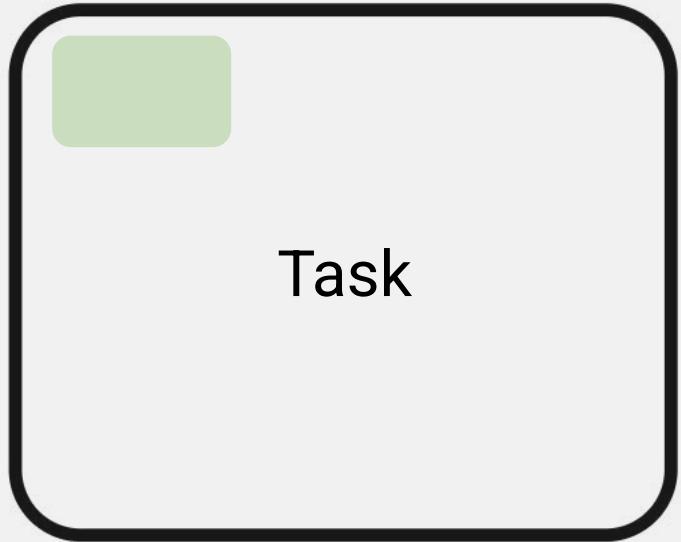
BPMN Theory

process camp



Task

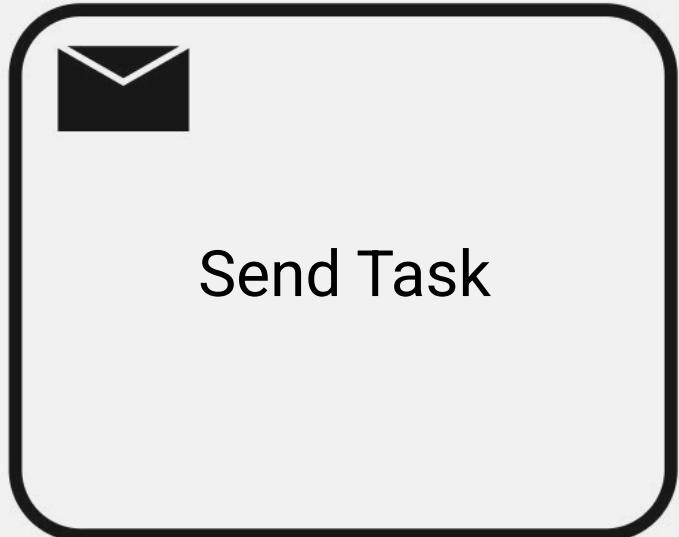
- The generic task can be used for any kind of job to be done



Task

- The left upper corner specifies task types
- Helpful to model processes for automation

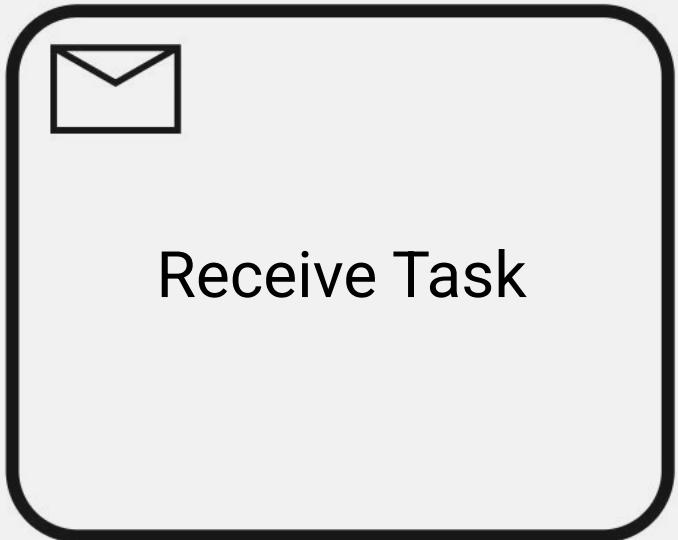
Send Task



Send Task

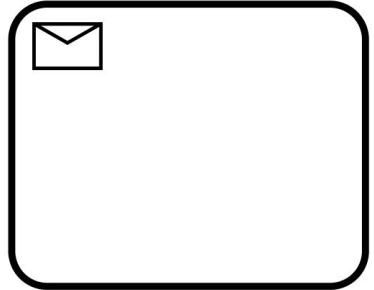
- Task that sends a message

Receive Task



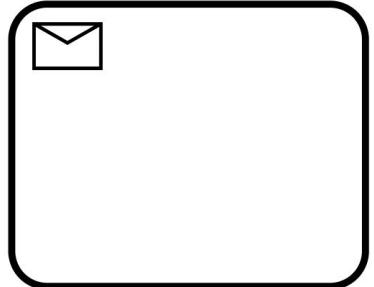
Receive Task

- Task that receives a message
- Requires the presence of a performer



Something is actively received



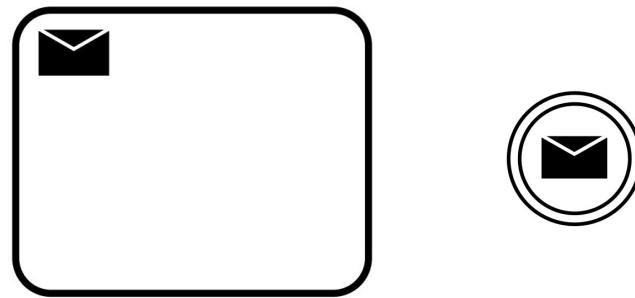


Something is actively received



Something has been received

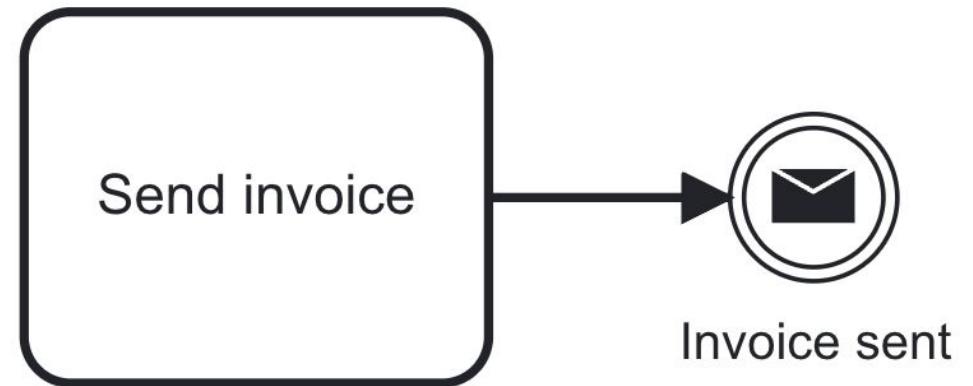
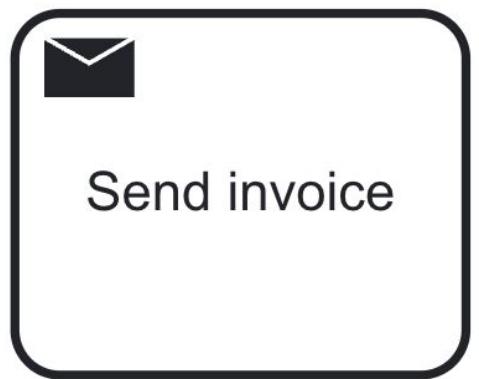




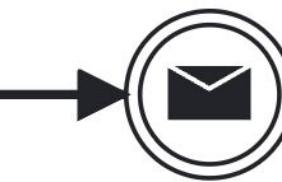
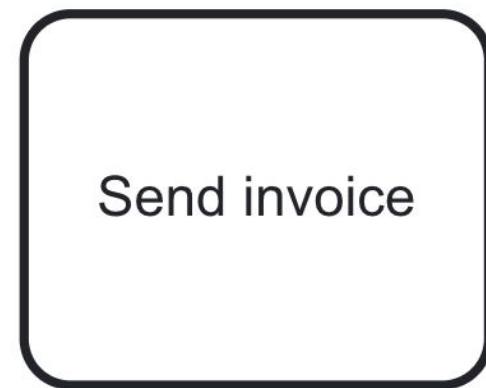
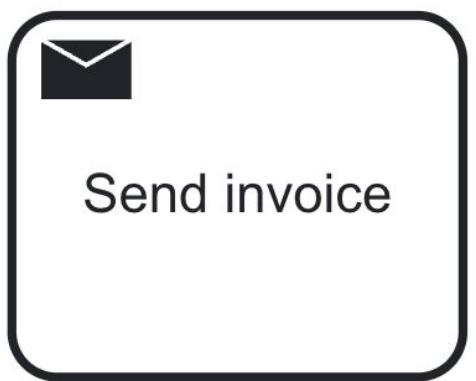
Sending / Throwing



Send invoice



process camp



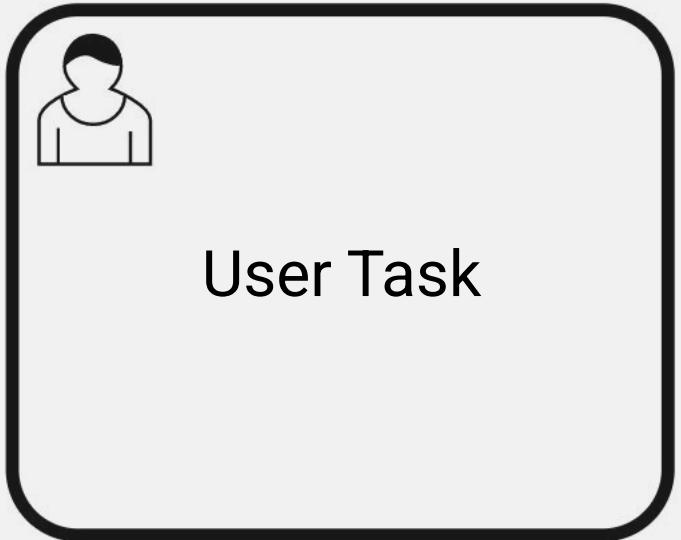
Invoice sent

process camp

BPMN Theory

process camp

User Task



- Task that is executed by a user within a system
- Usually via an input mask

Manual Task



Manual Task

- Manual task performed without any interaction with an IT system

Business Rule Task



Business Rule Task

- Application of business rules
- Decision logic execution possible via DMN

Service Task



Service Task

- Automated execution of a service
- Usually a web service

Script Task

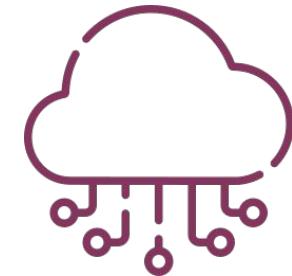


Script Task

- Direct execution of a script

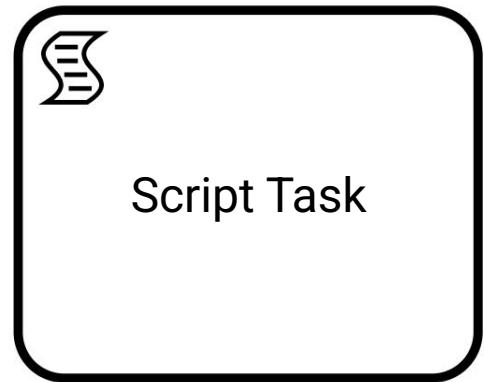


Calls

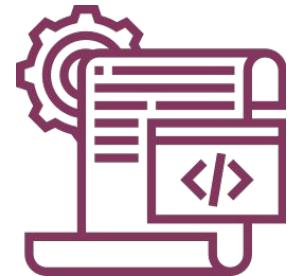




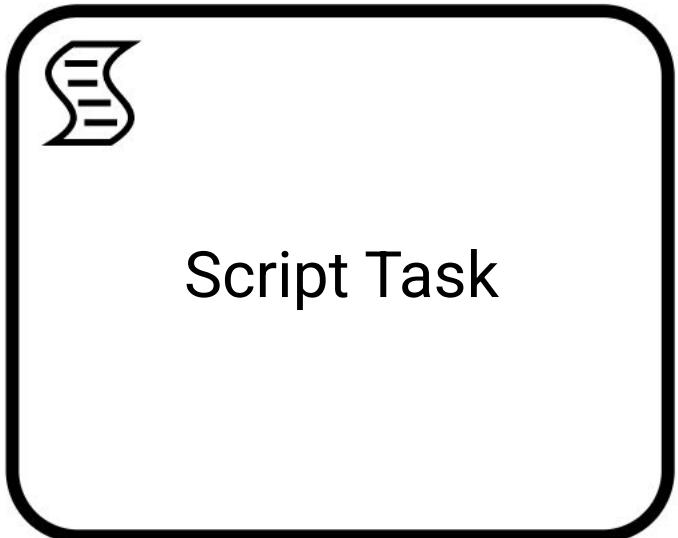
Calls



Runs



Script Task

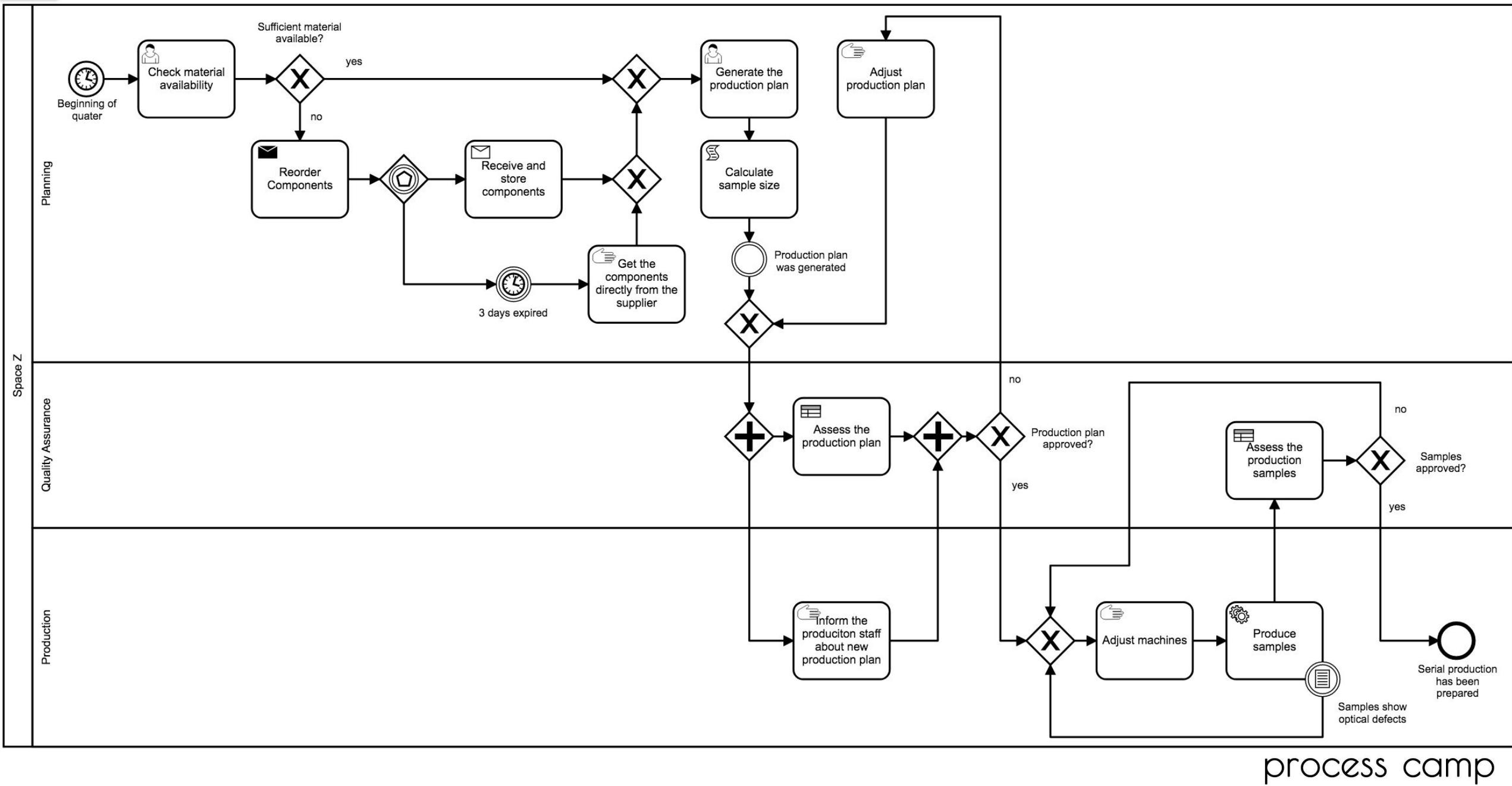


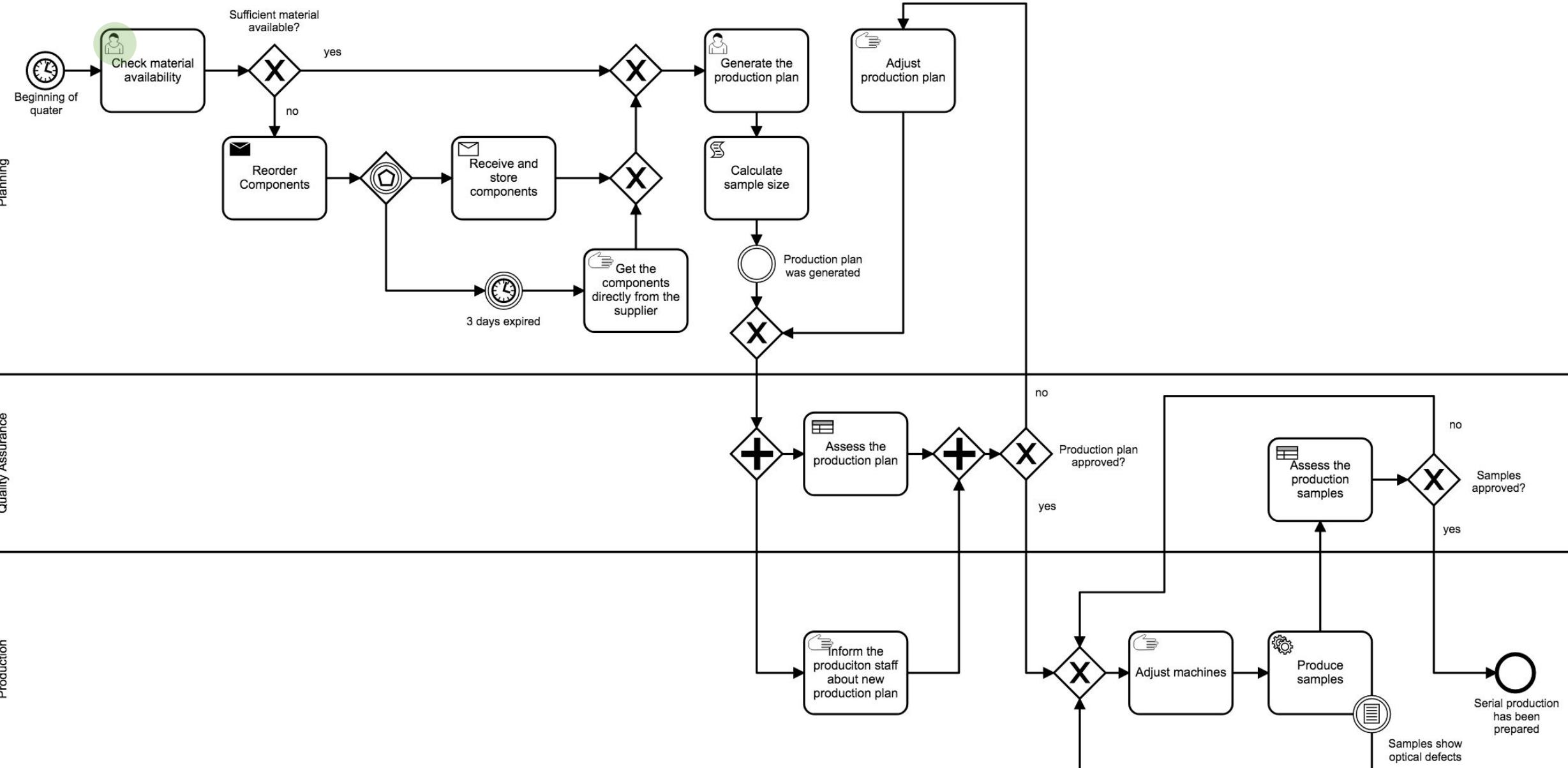
Script Task

- Direct execution of a script

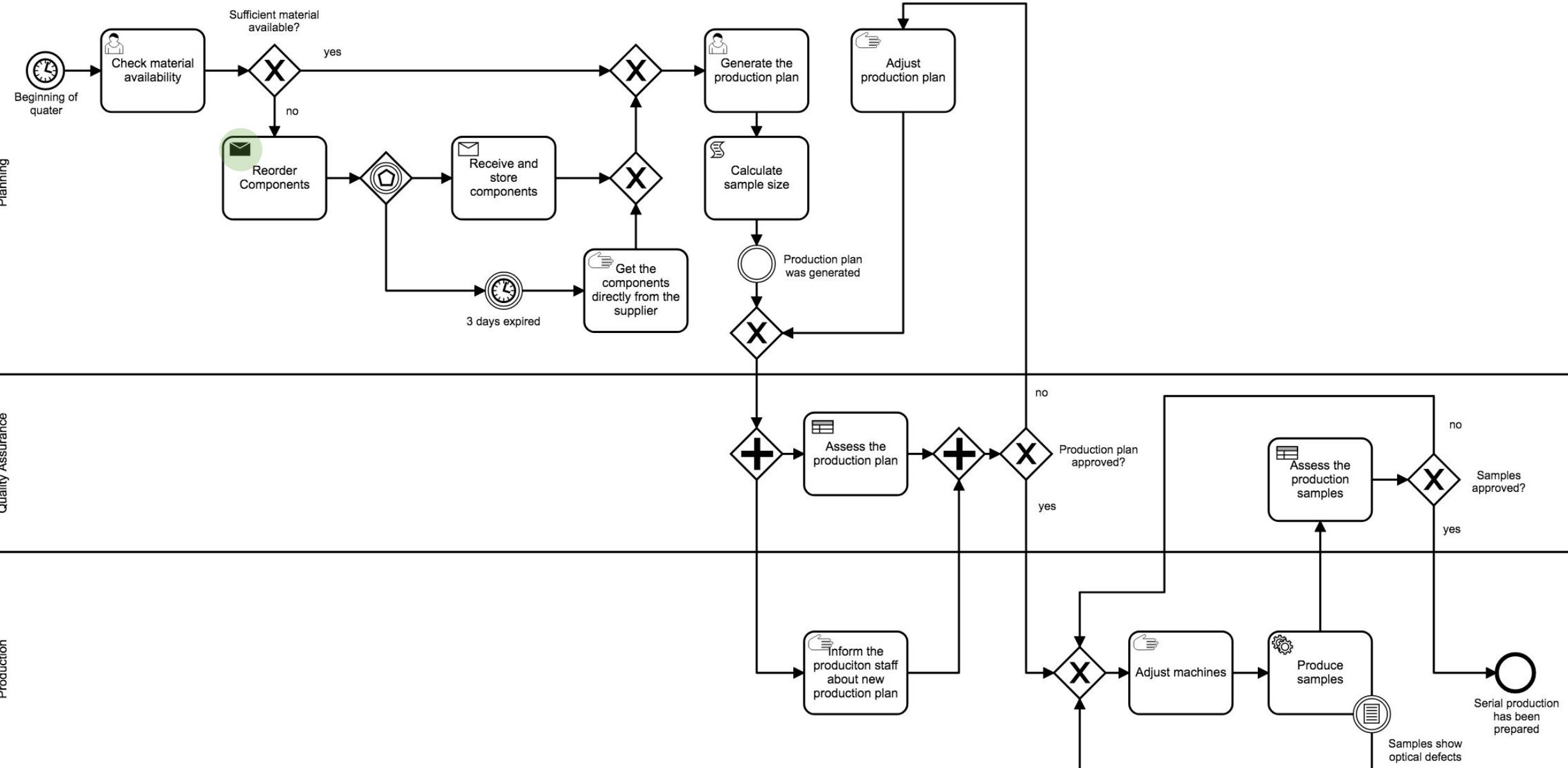
Space Z

process camp

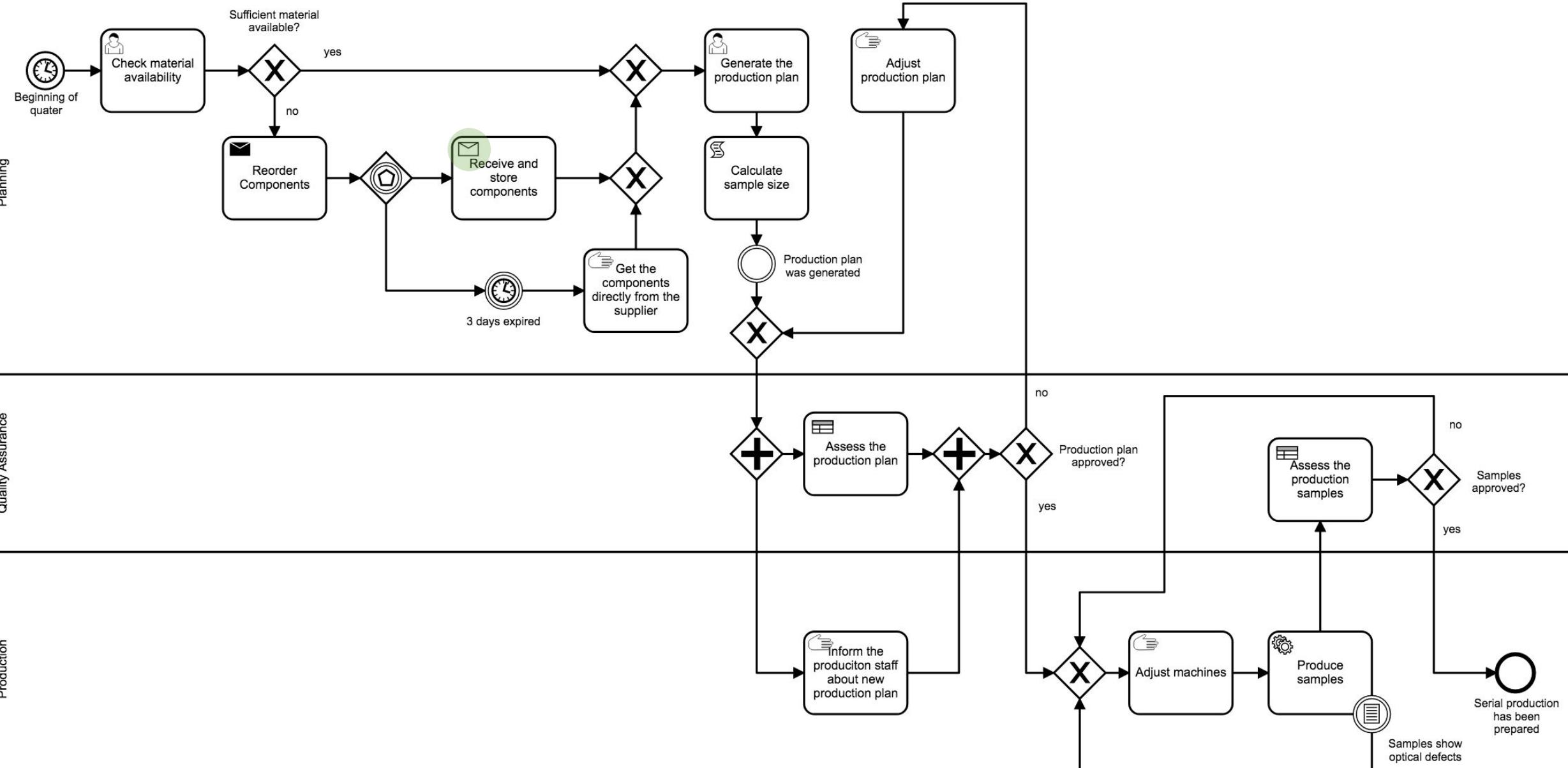




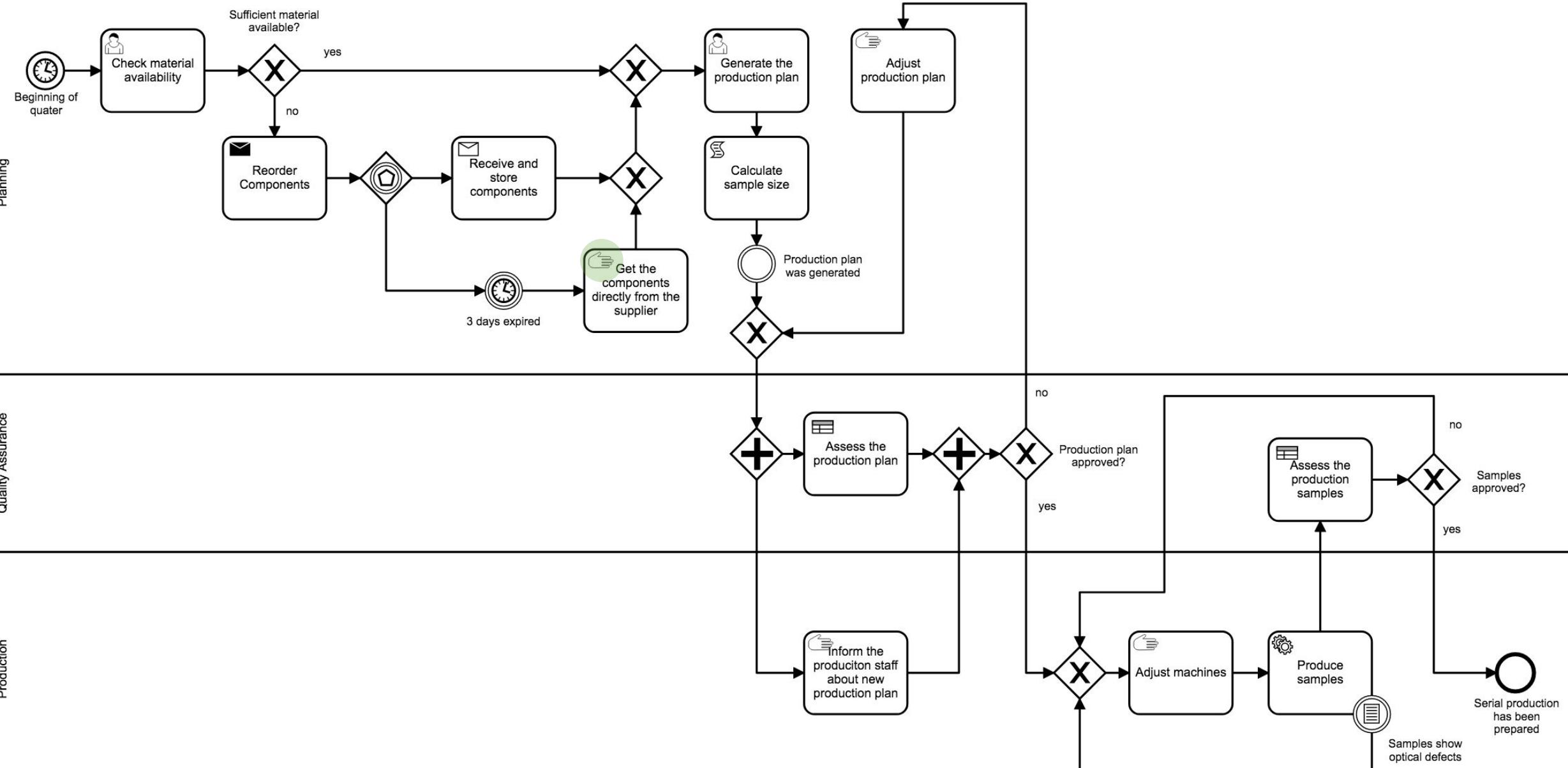
process camp



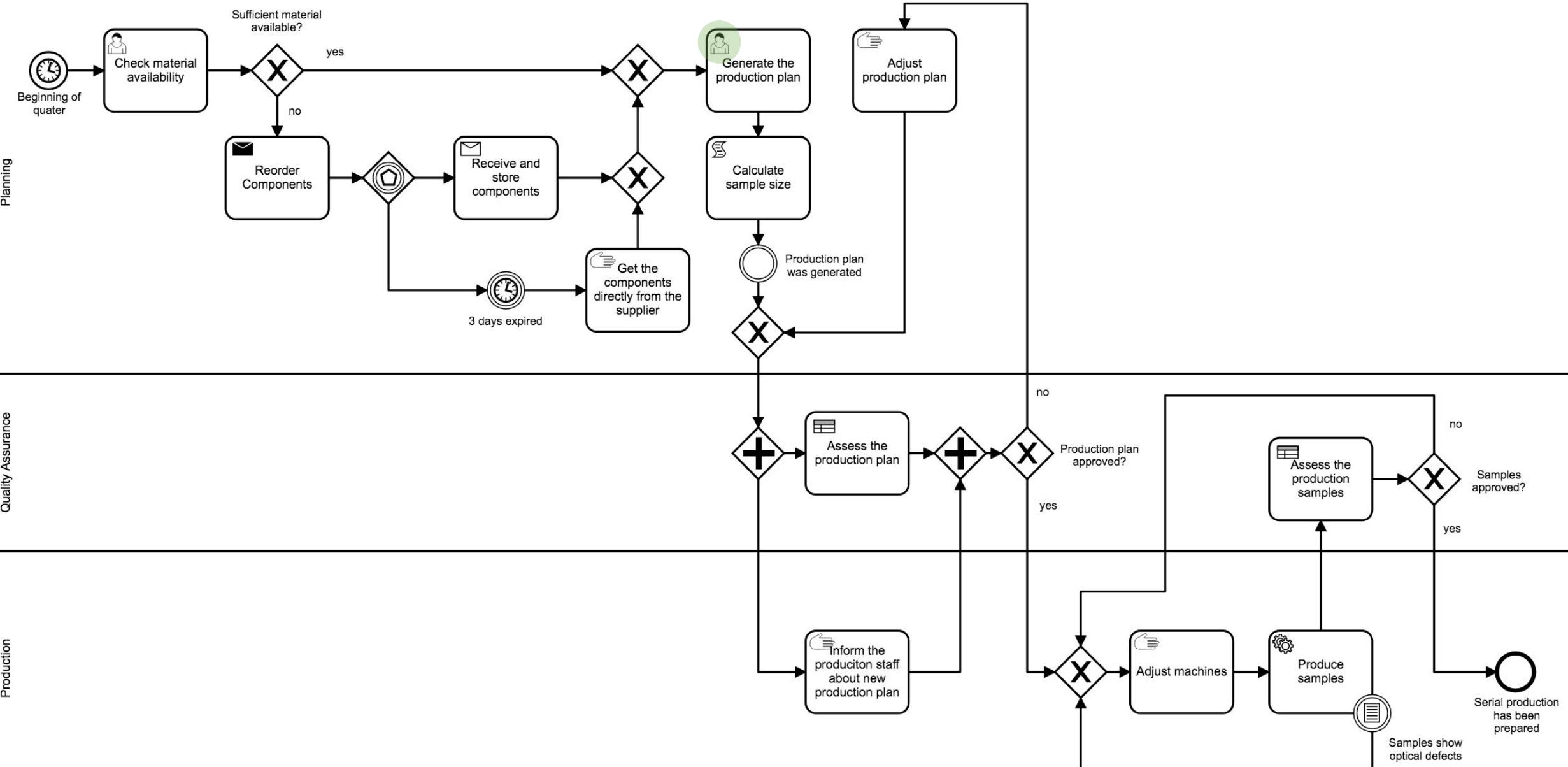
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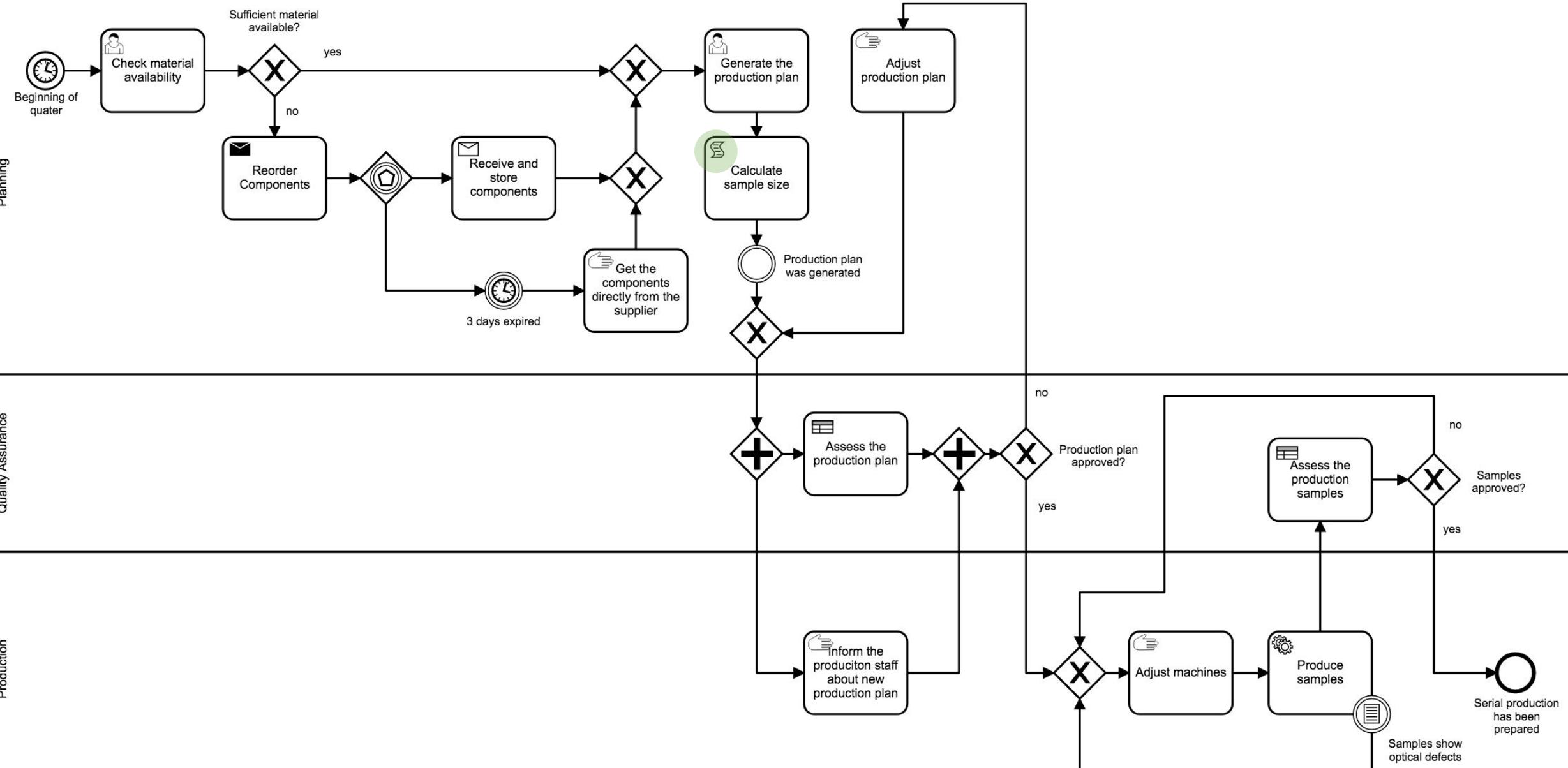
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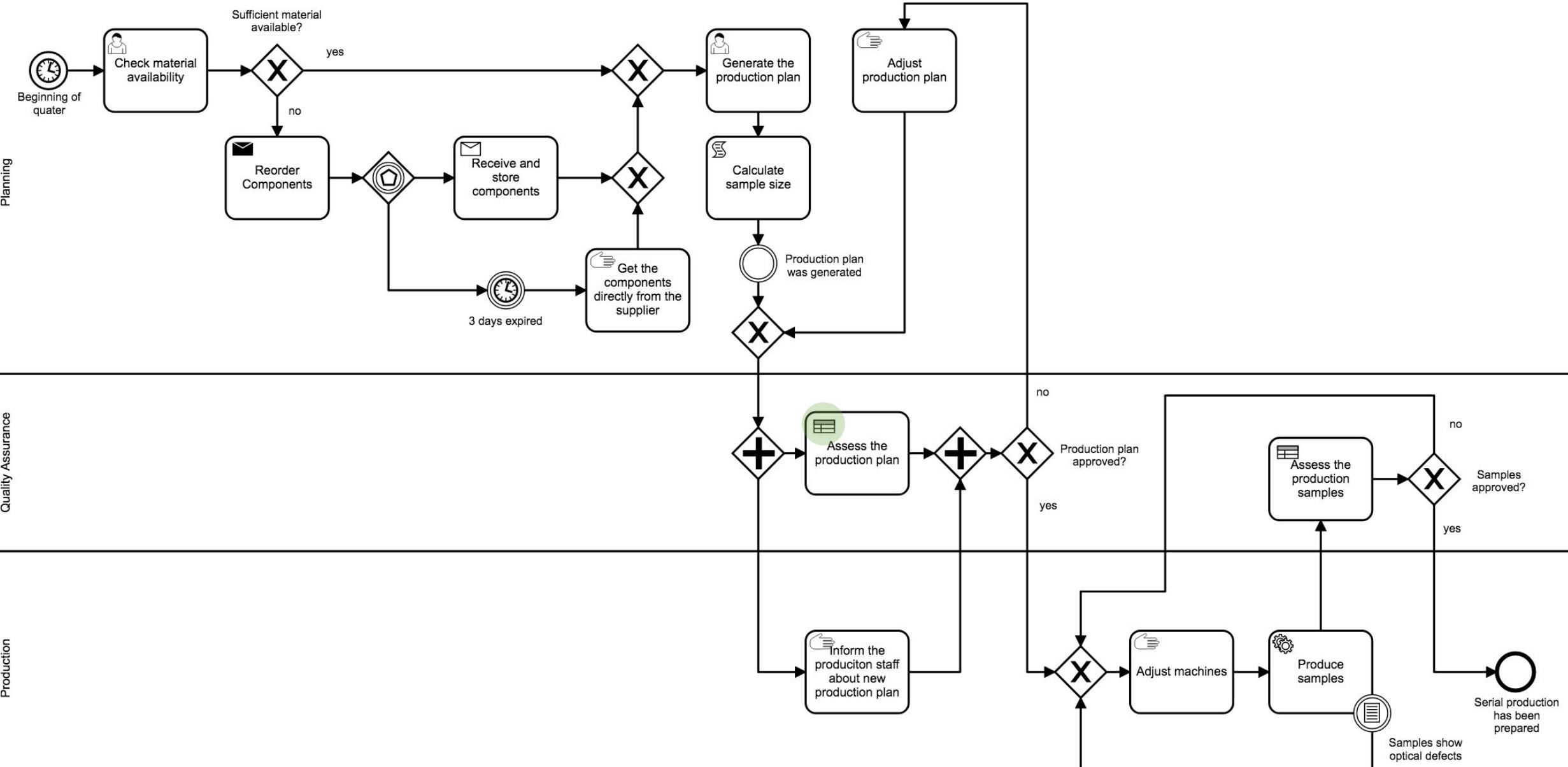
process camp



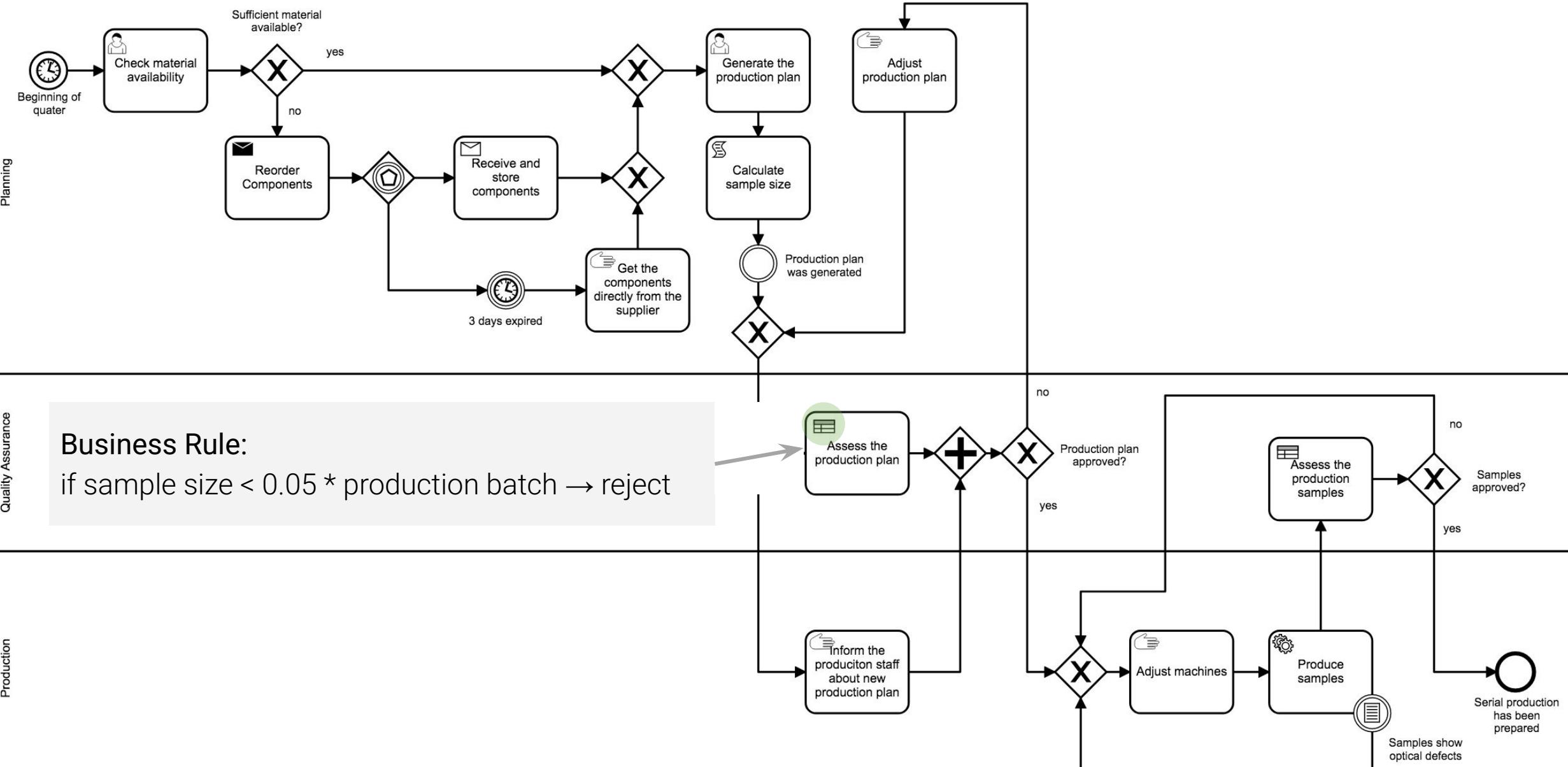
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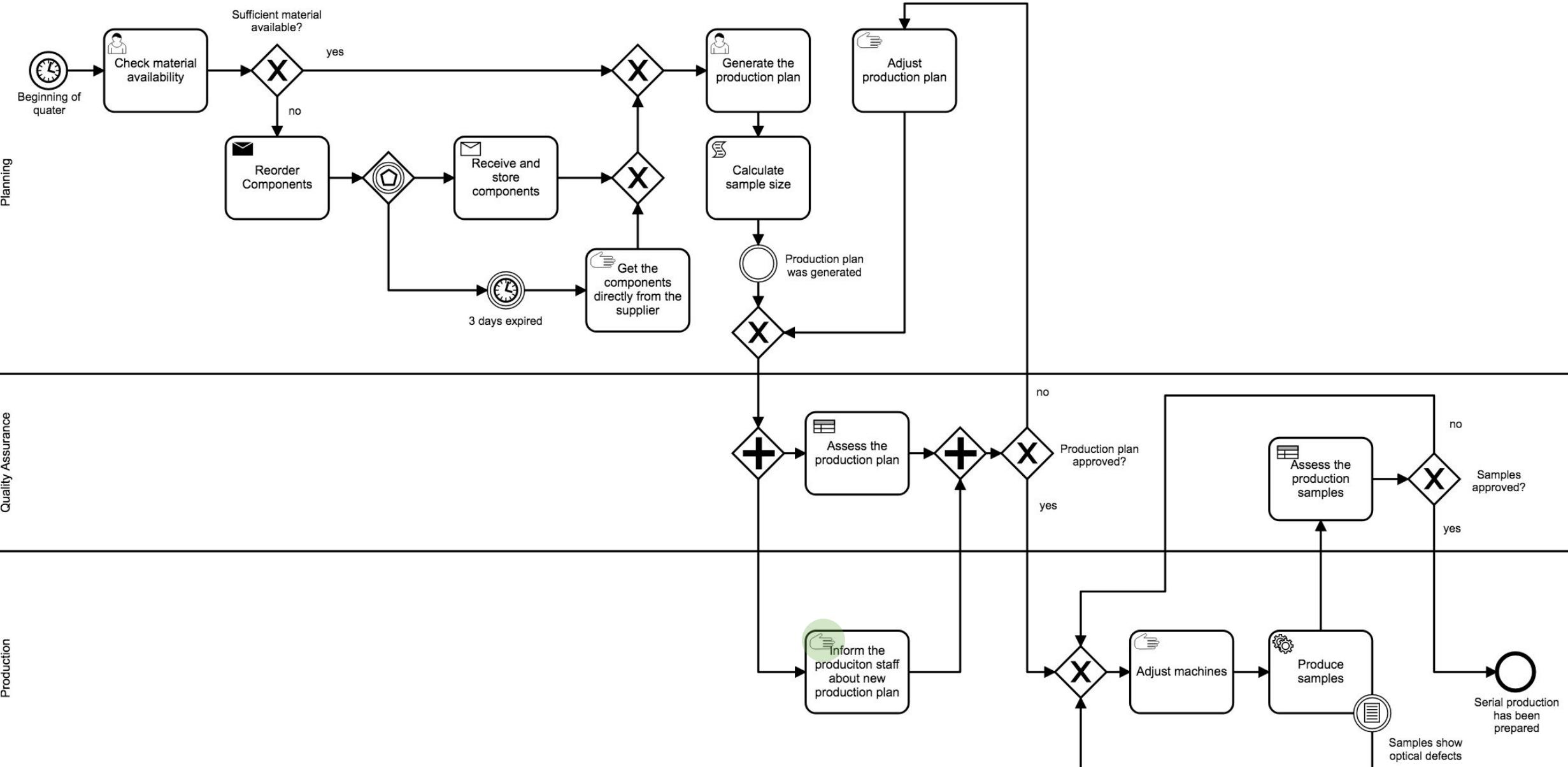


process camp

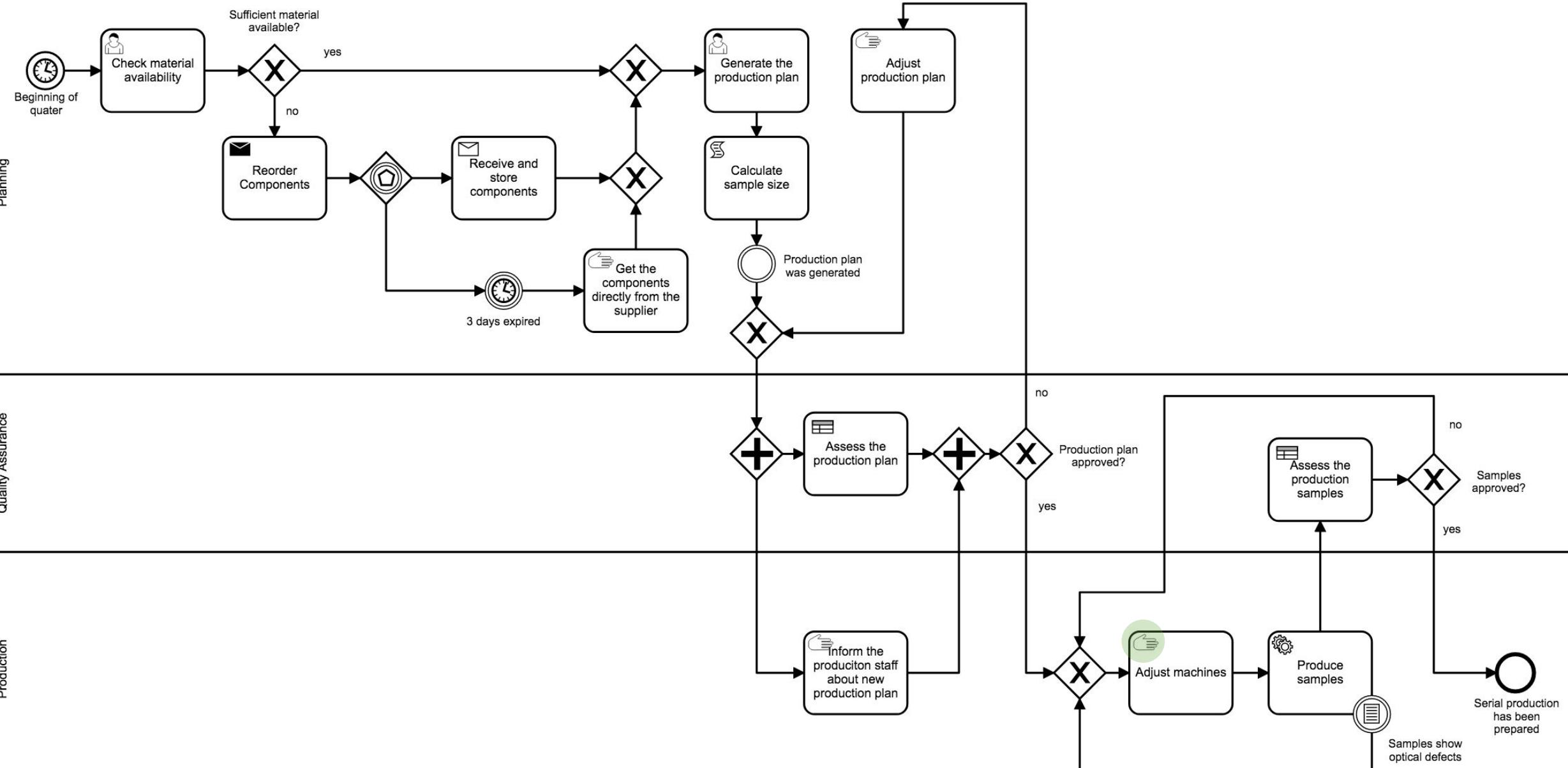


process camp

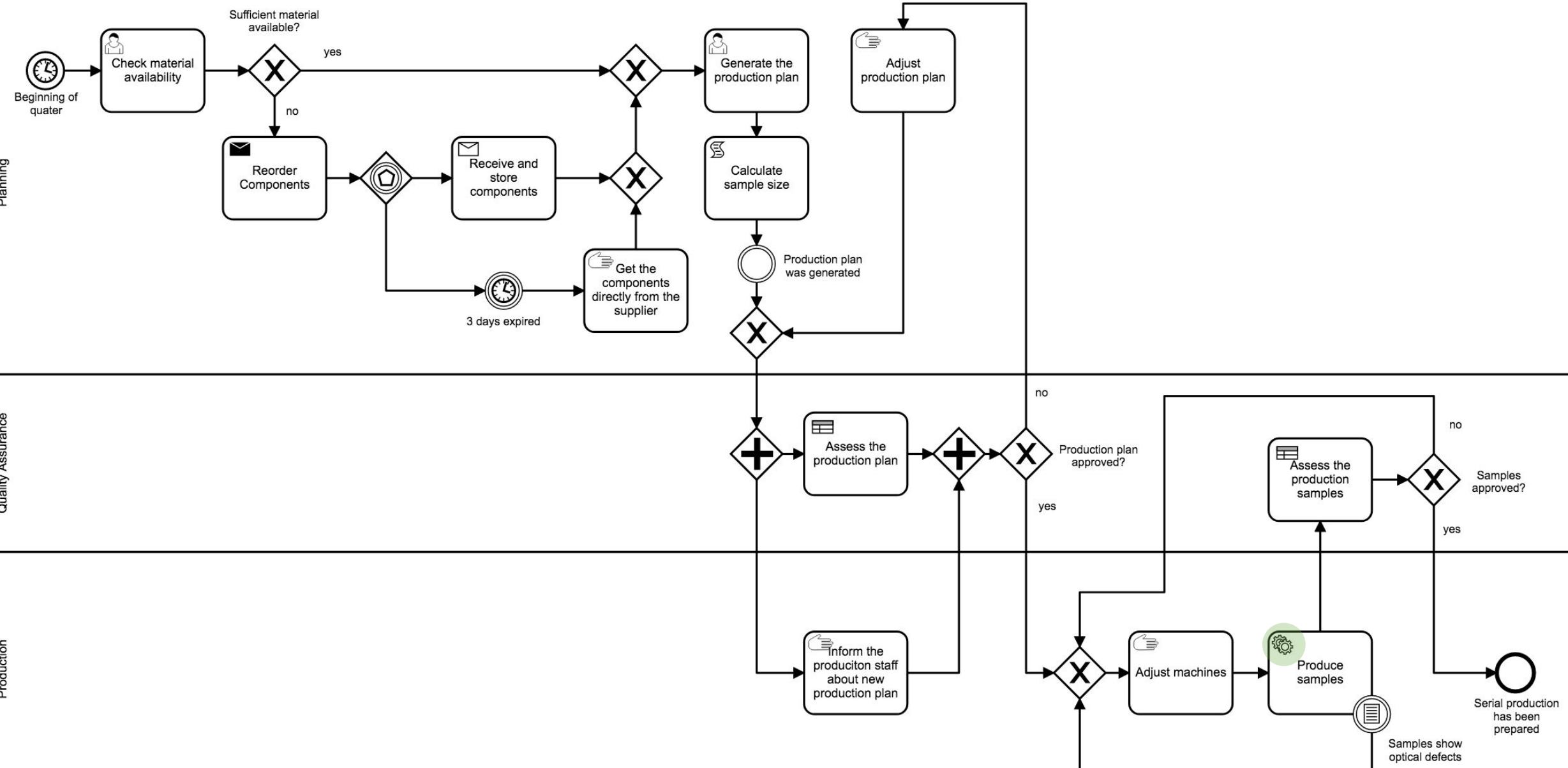




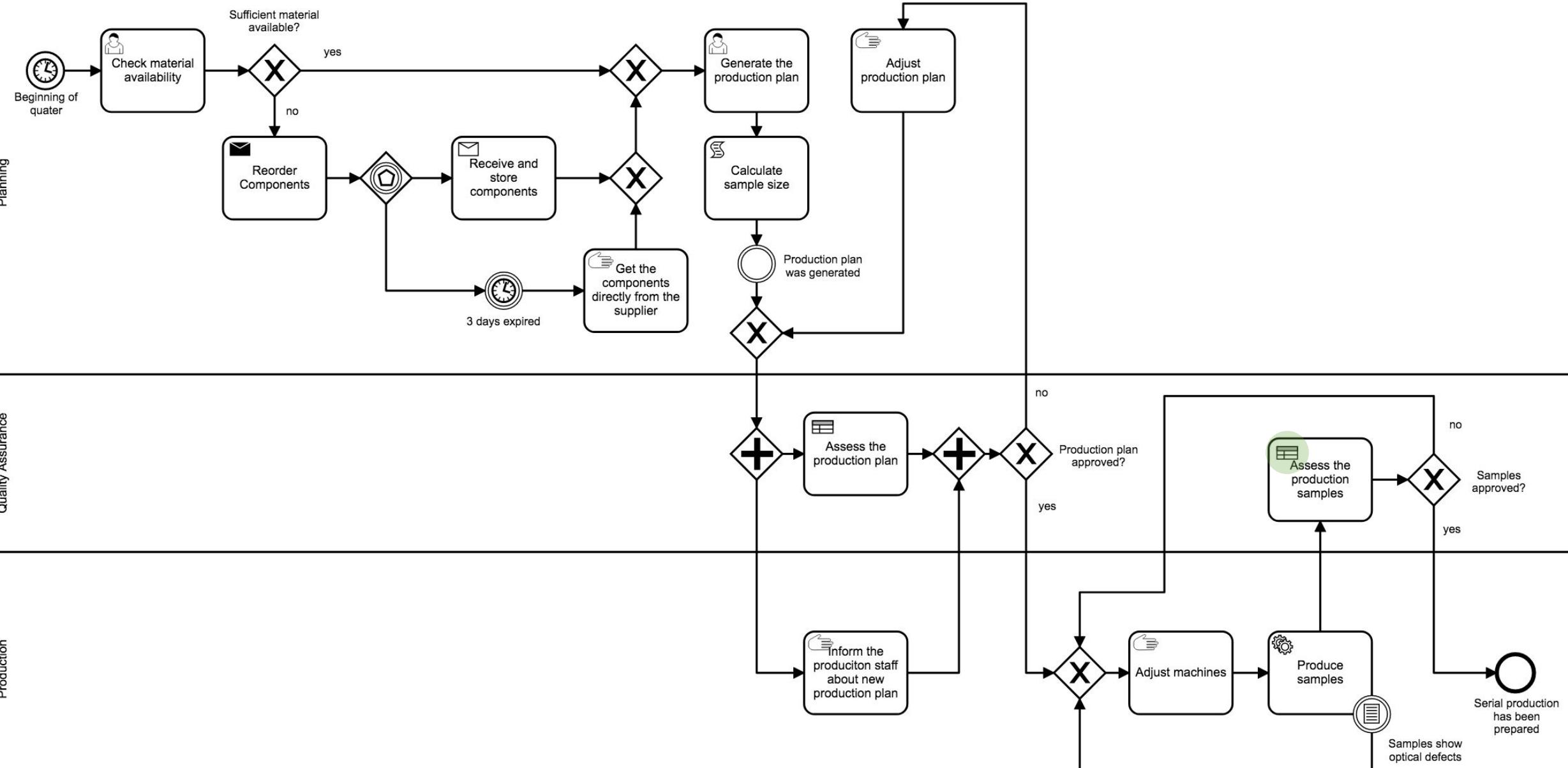
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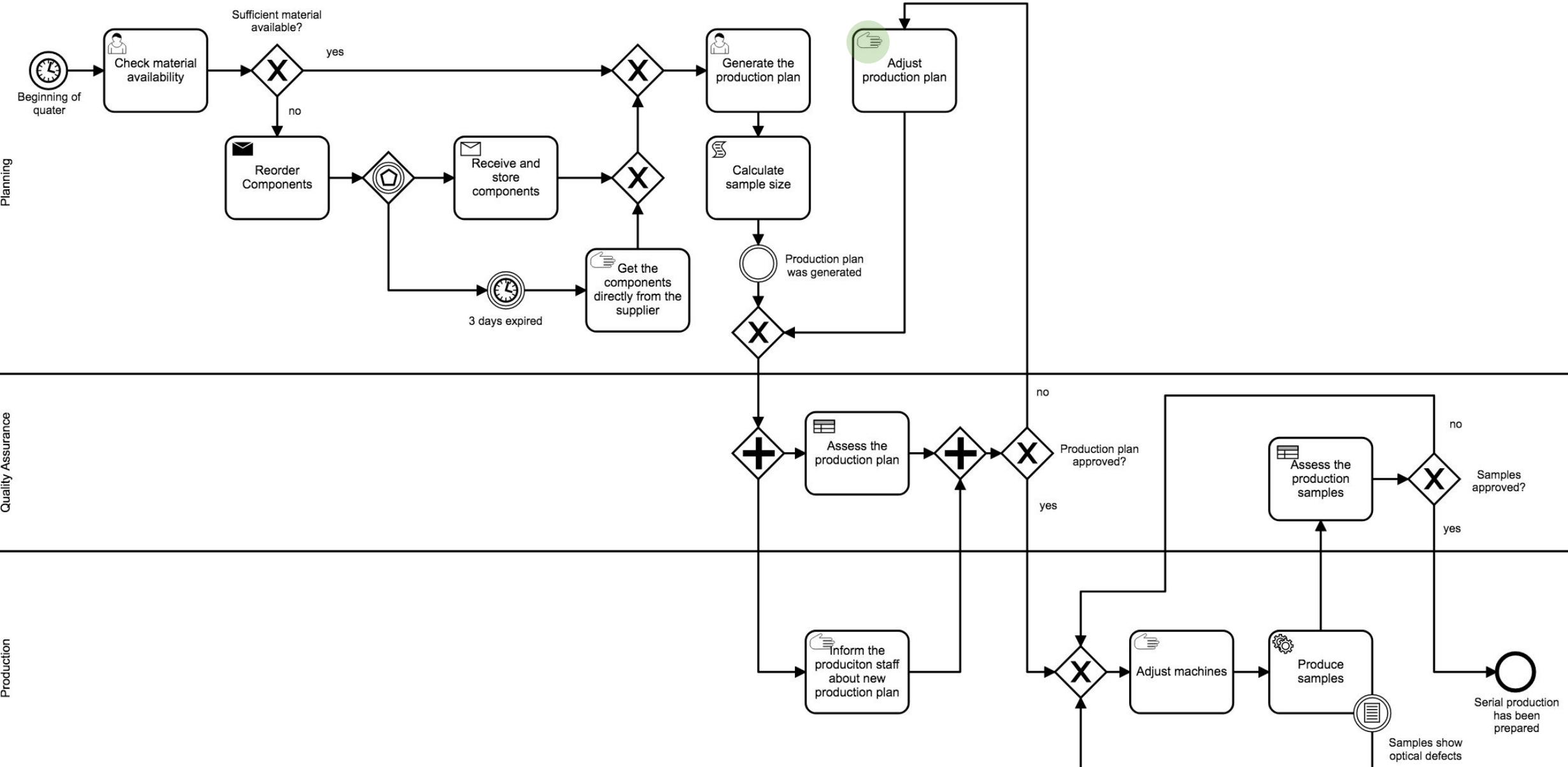
process camp



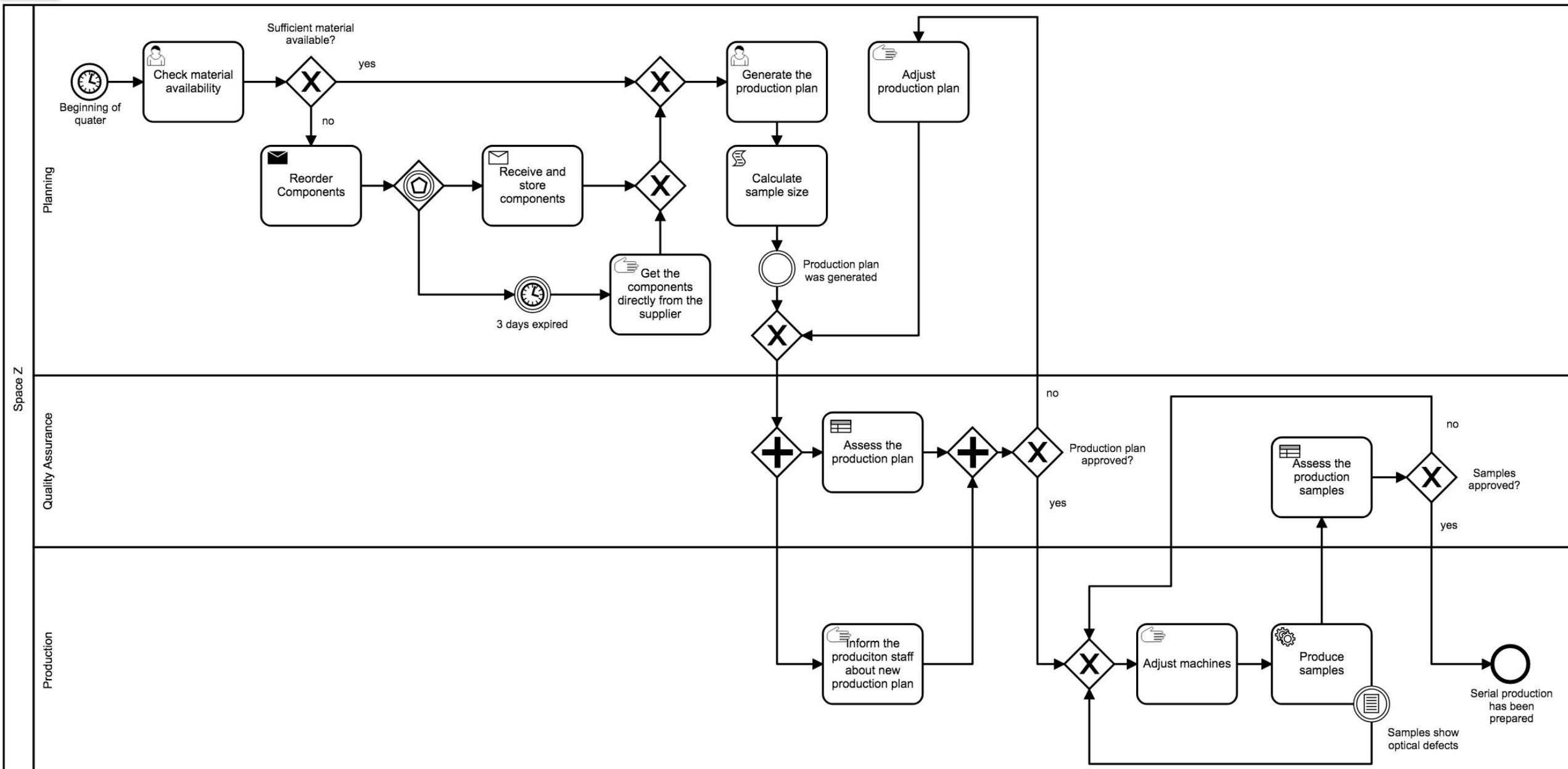
process camp



process camp



process camp



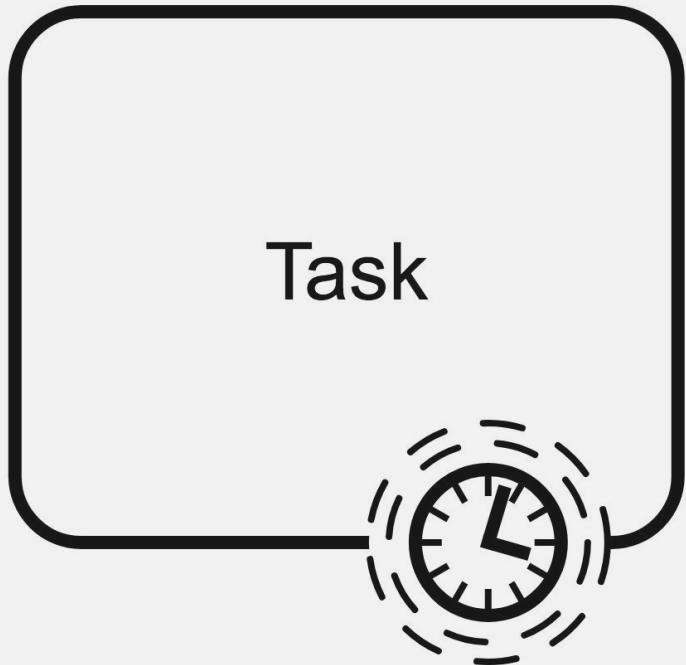
process camp

BPMN Theory

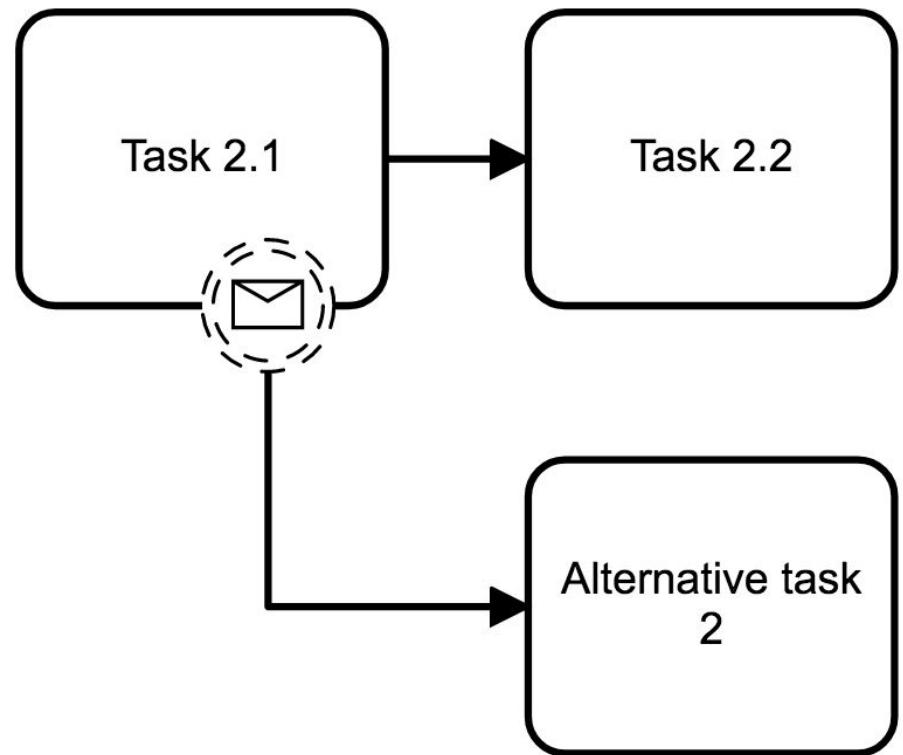
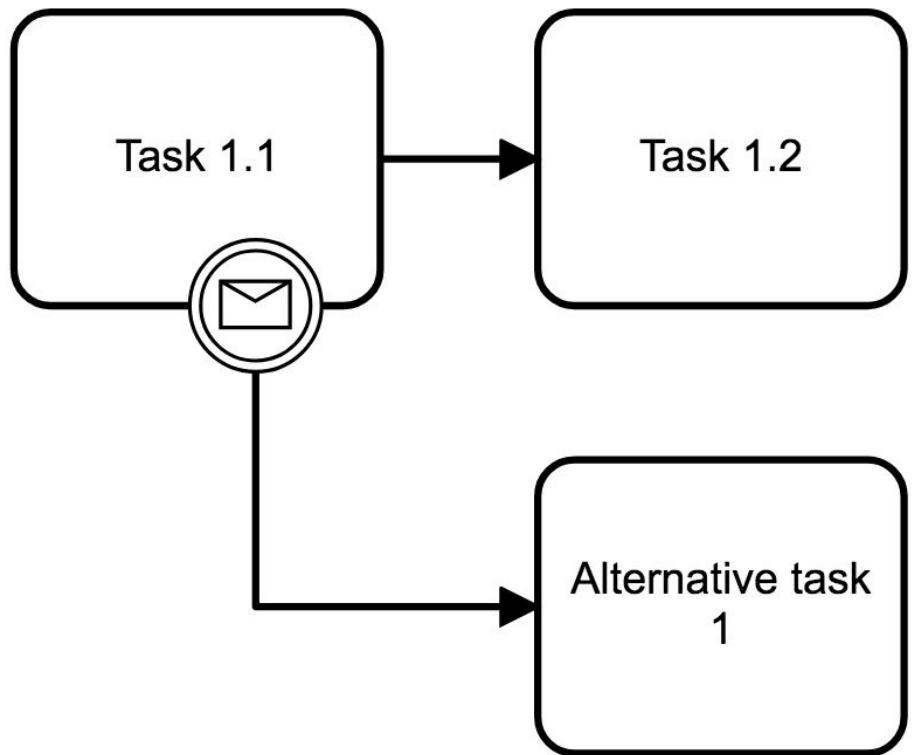
process camp

Attached Events

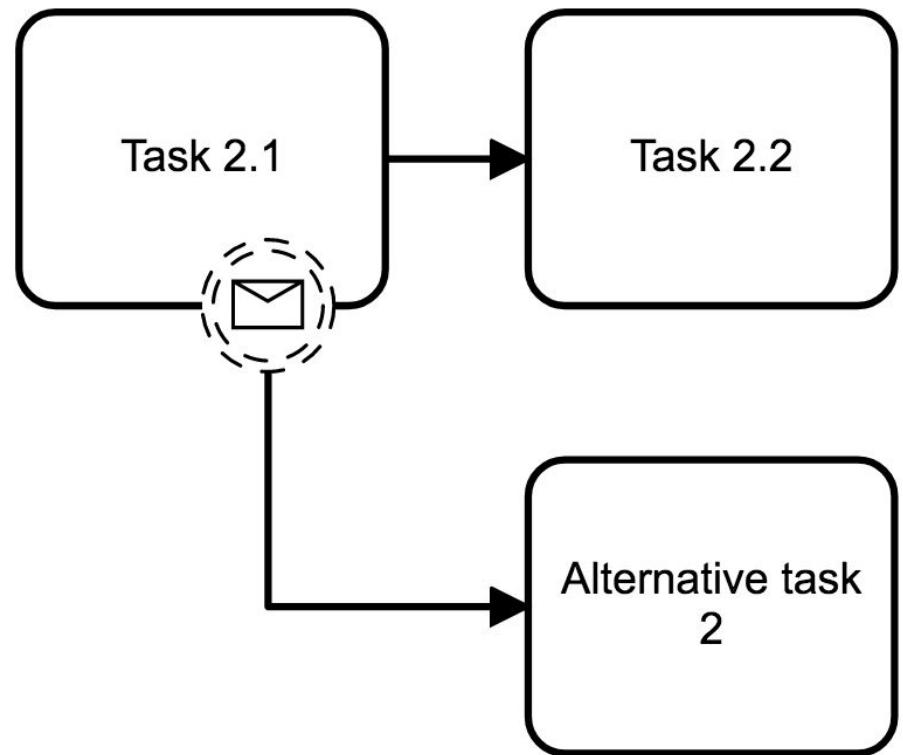
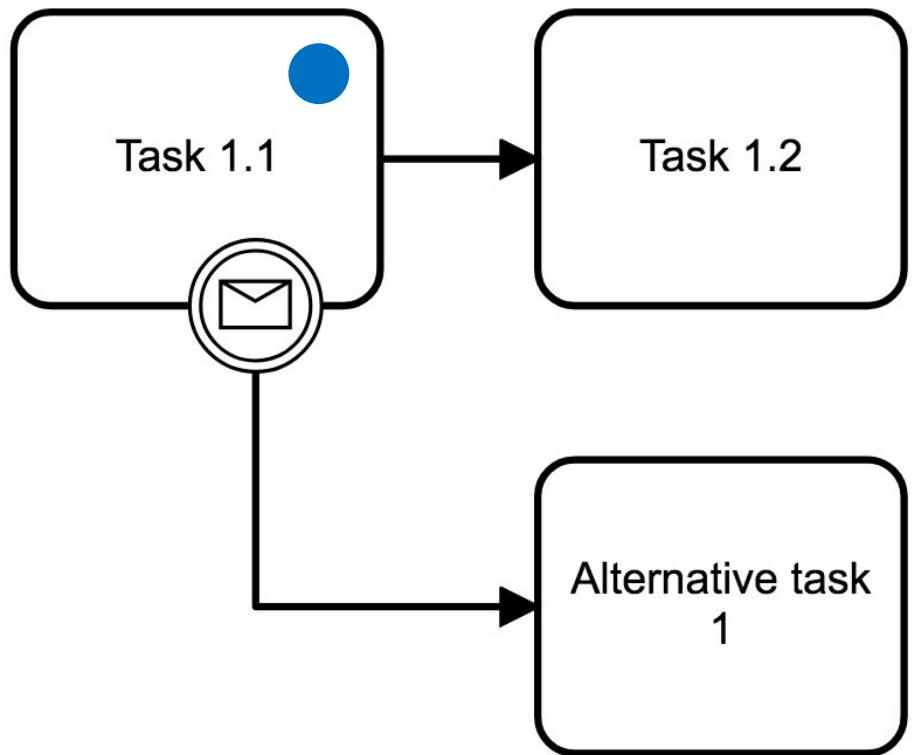
[Non Interrupting]



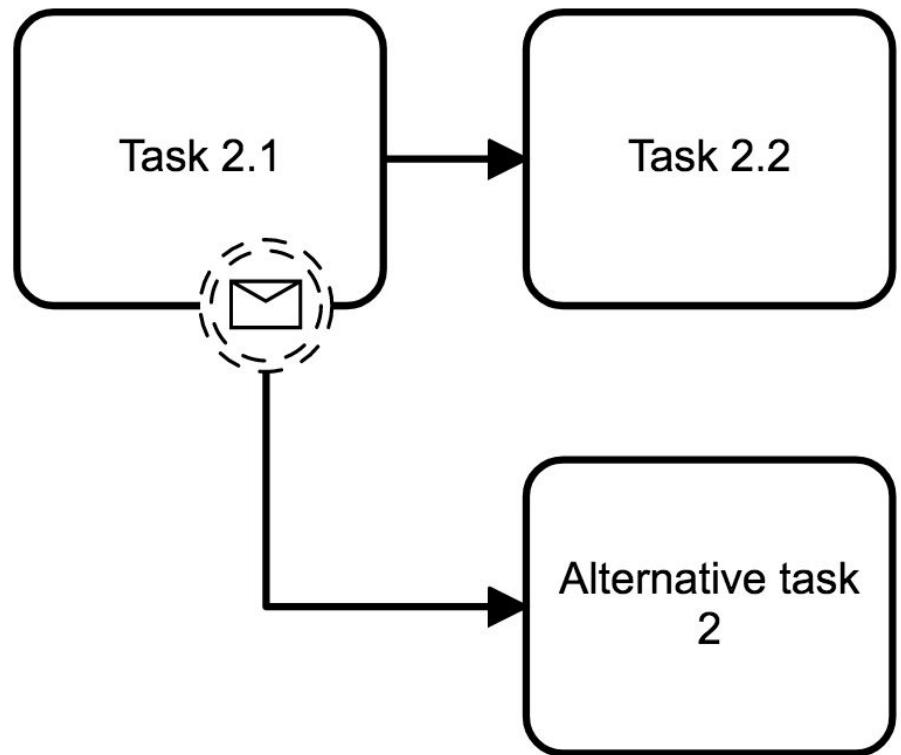
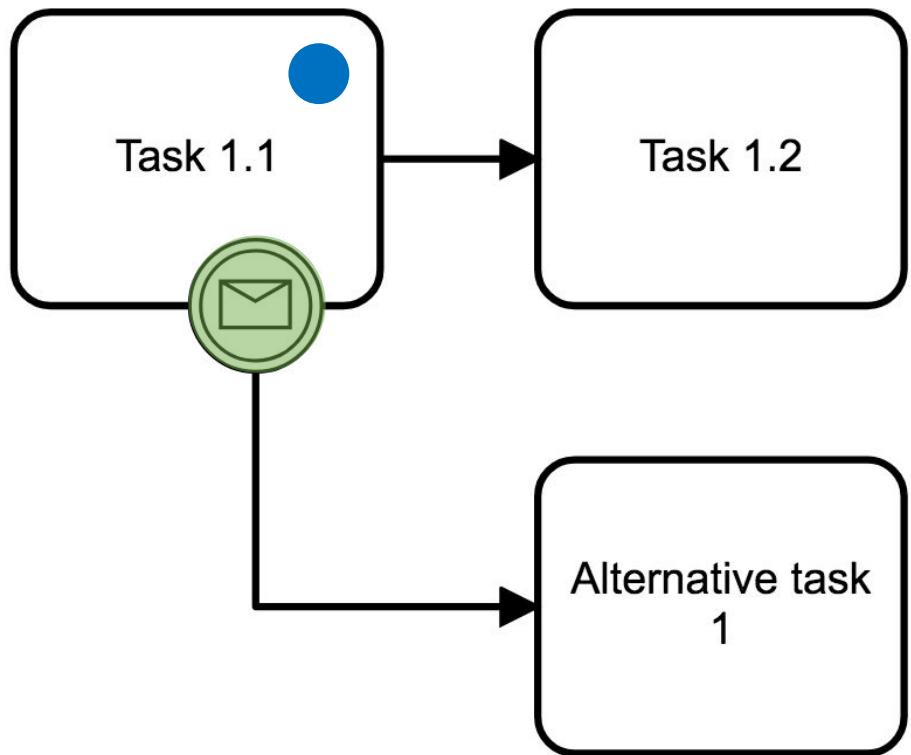
- Activates a process path, if the attached event is triggered
- The execution of the task continues



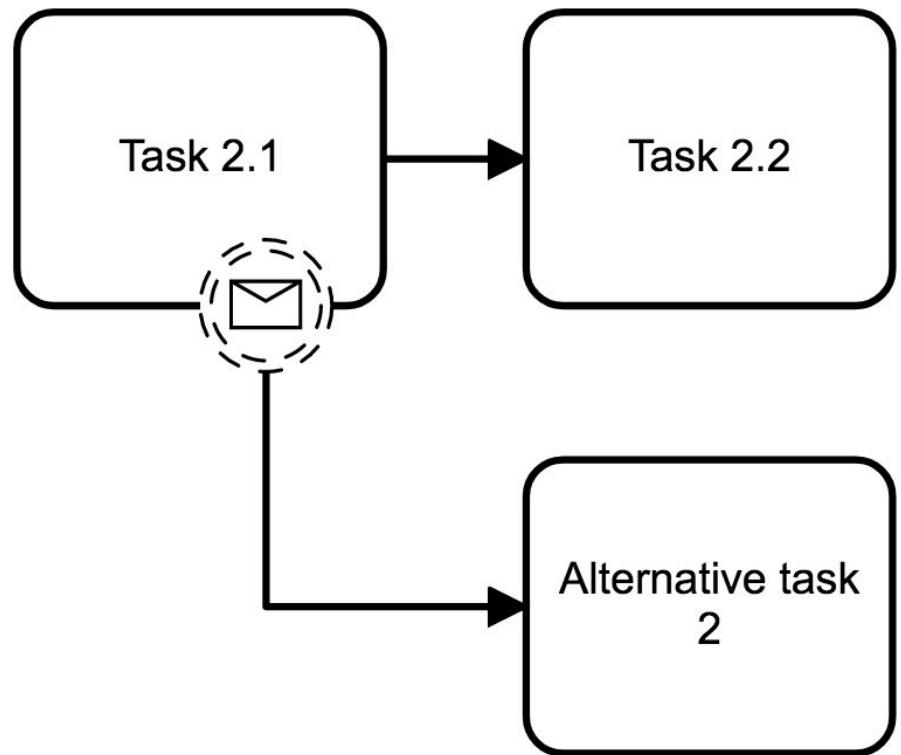
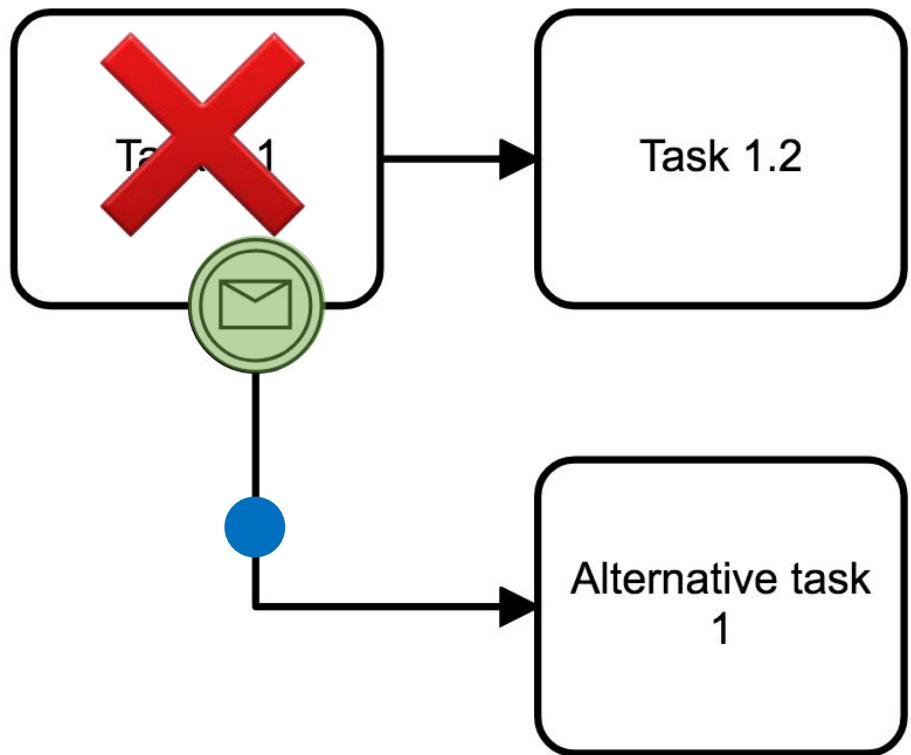
process camp



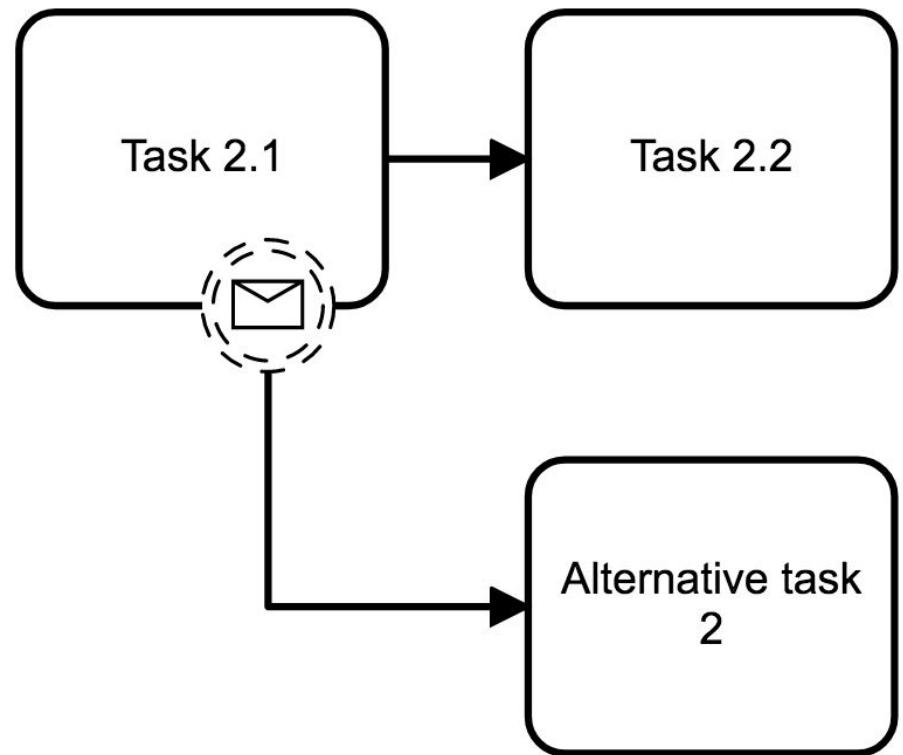
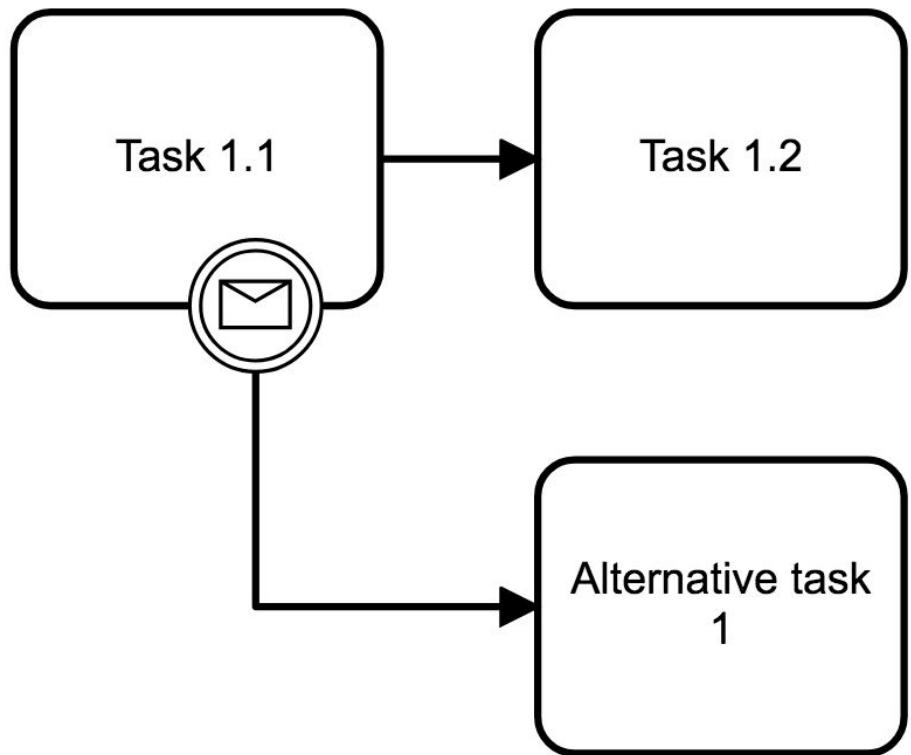
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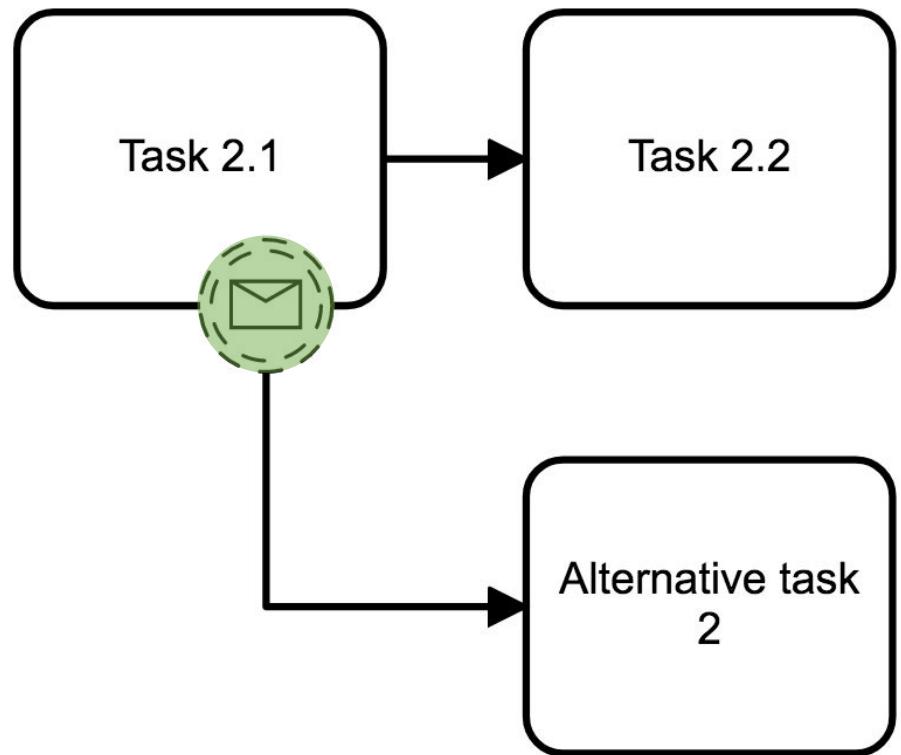
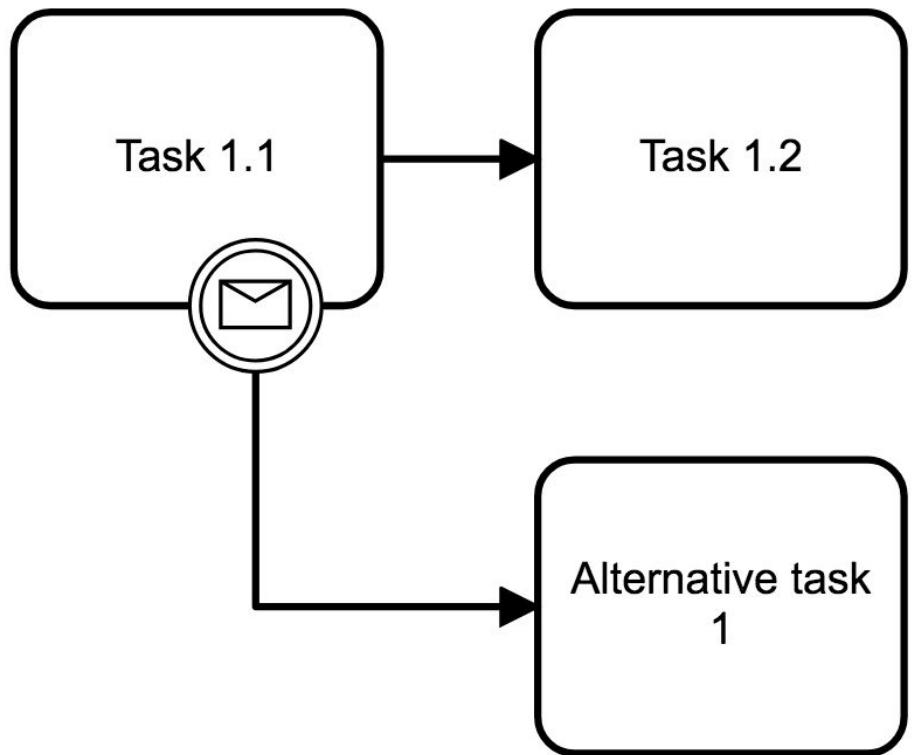
process camp

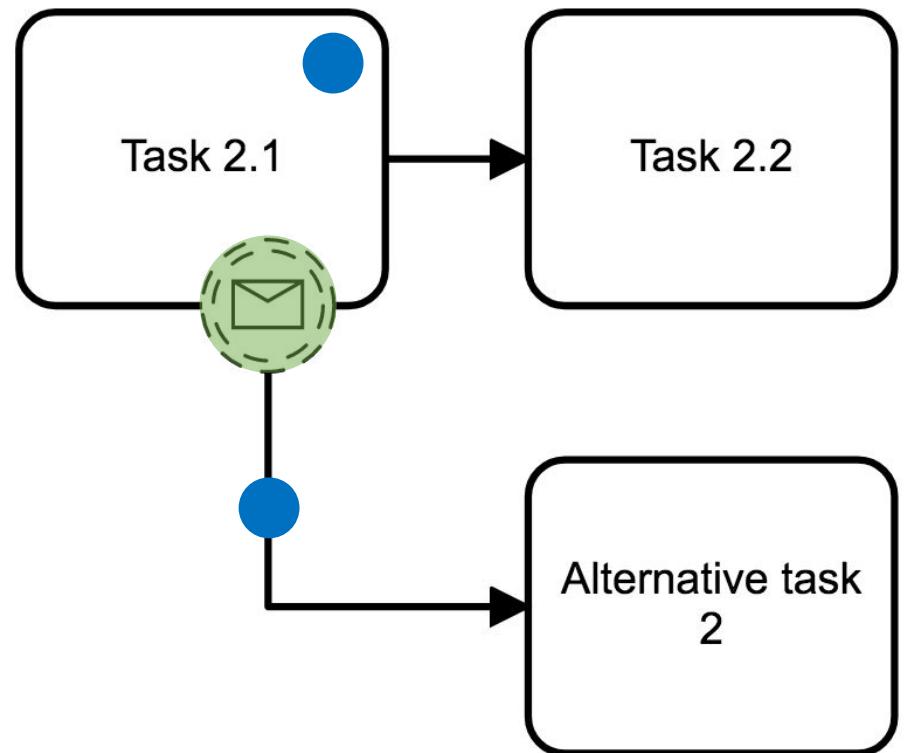
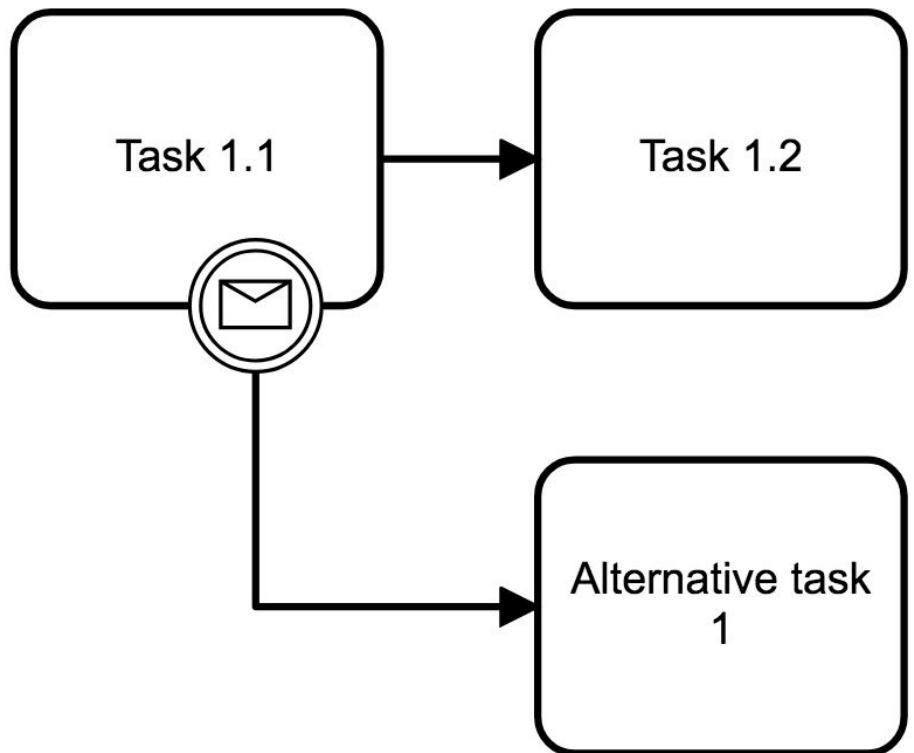


process camp

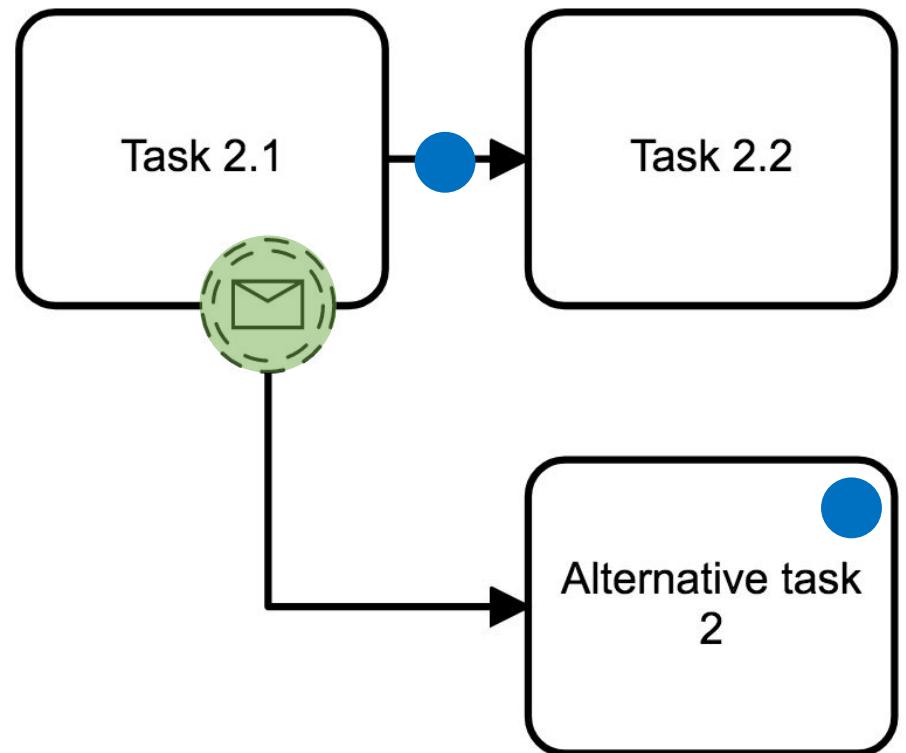
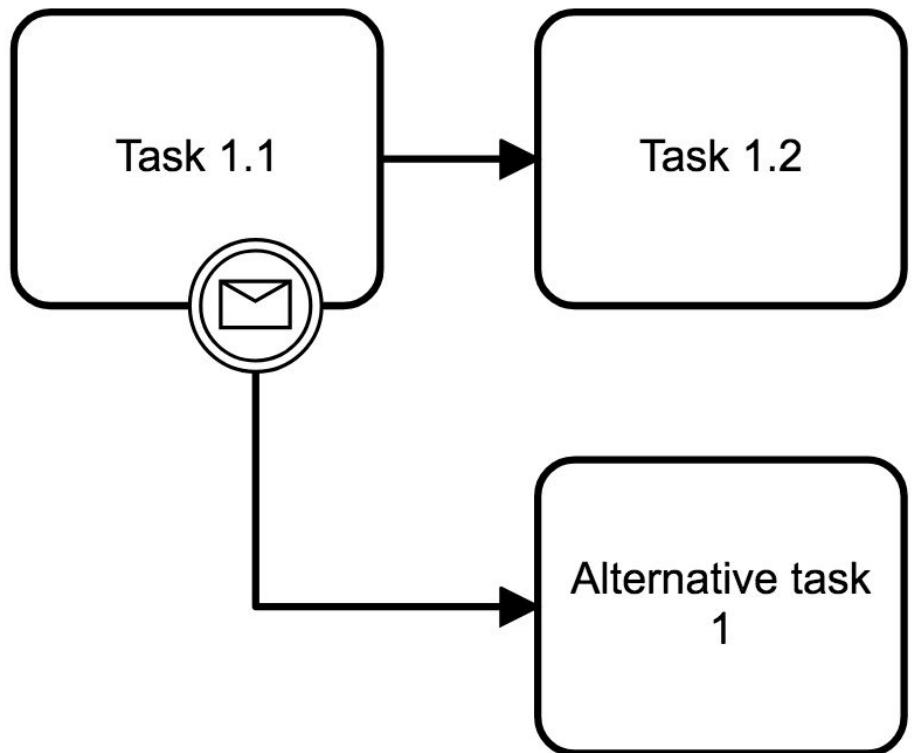


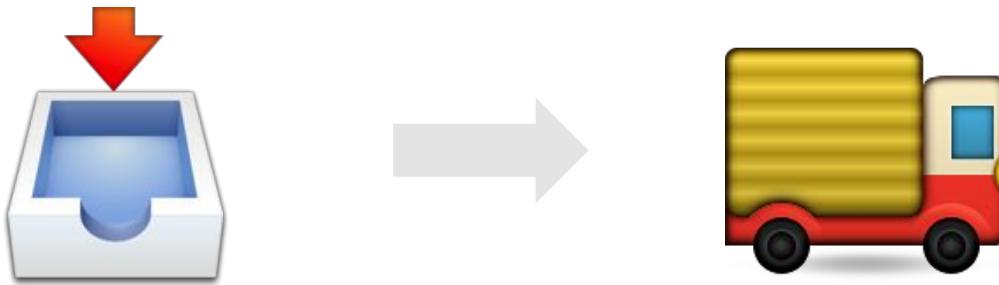
process camp



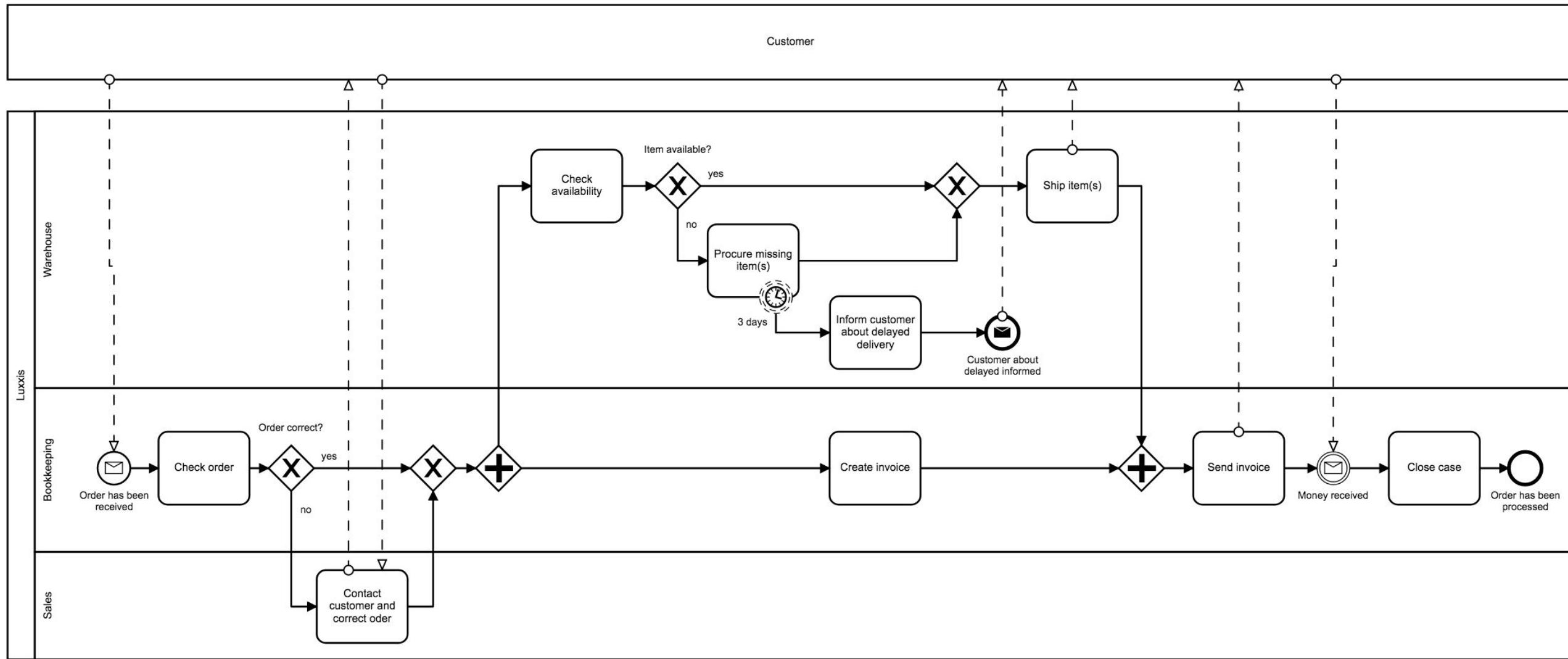


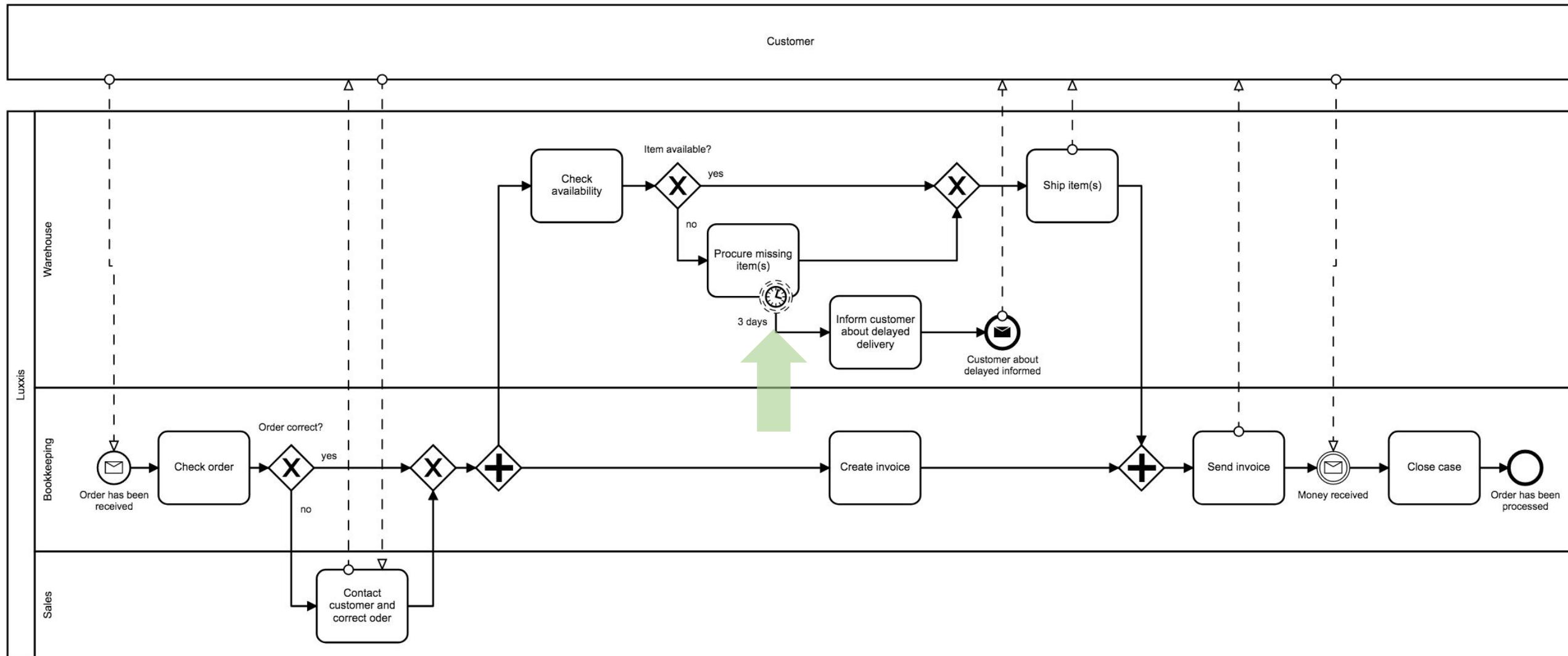
process camp

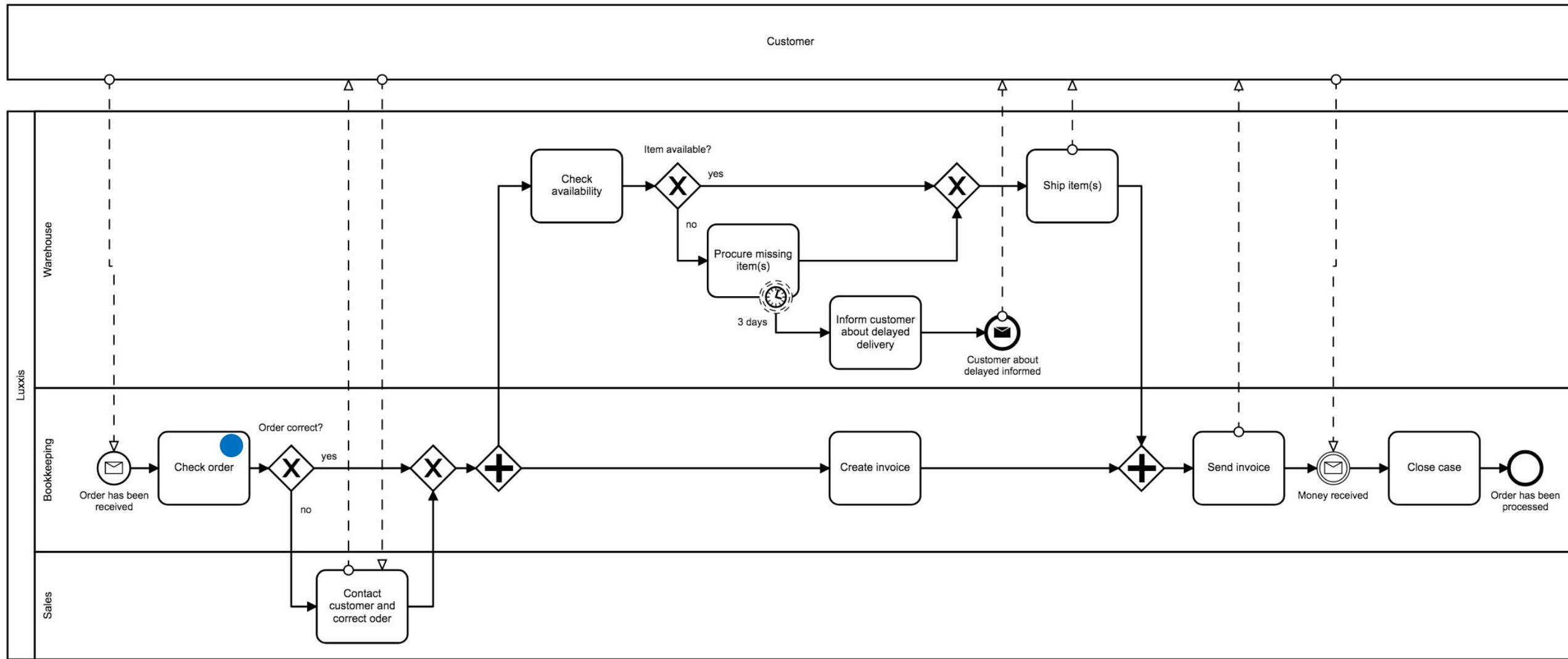


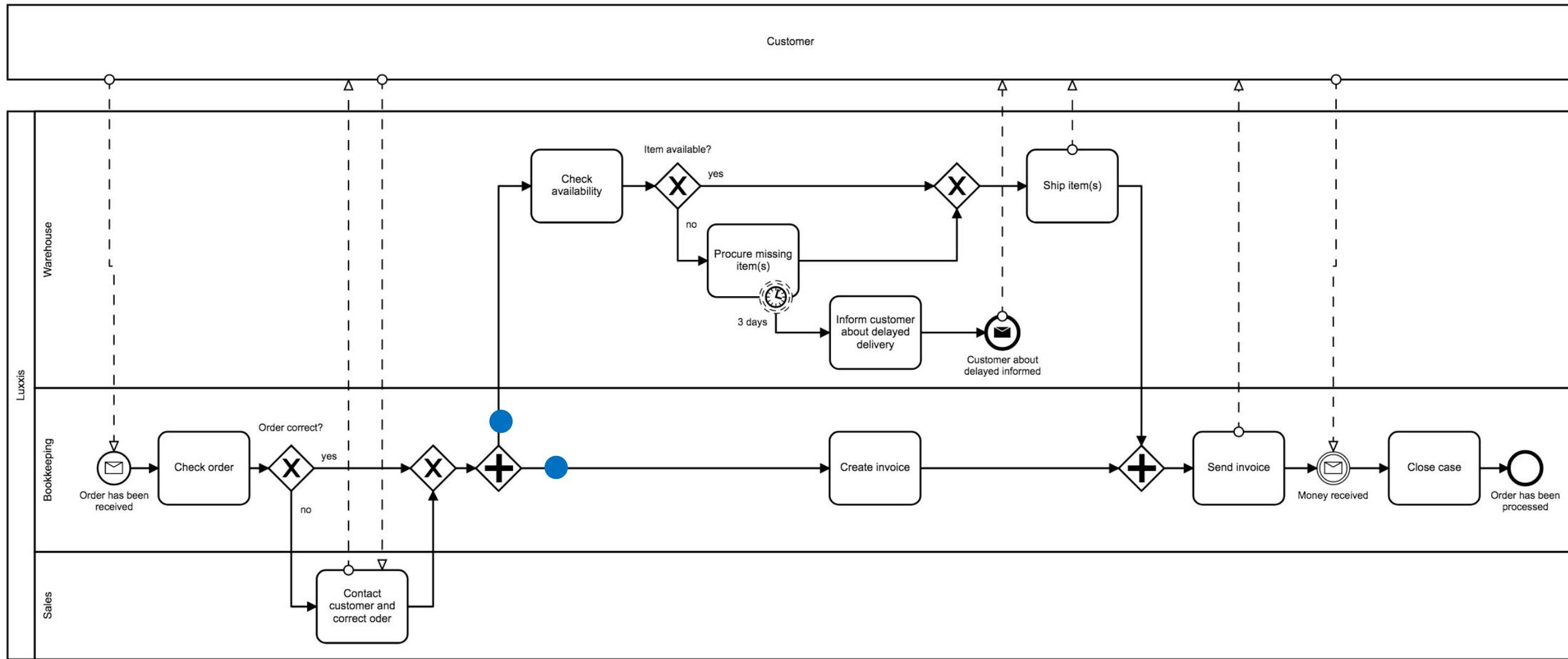


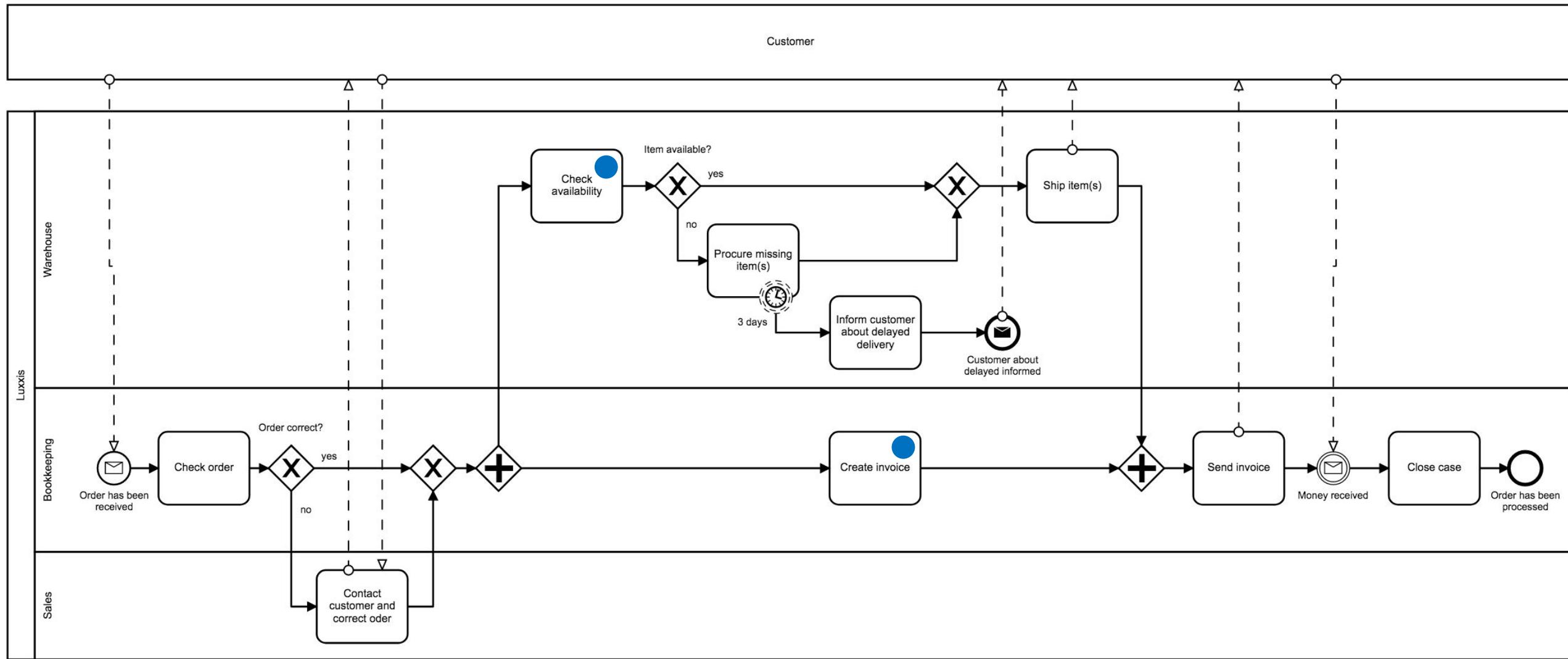
The order process at Luxxis

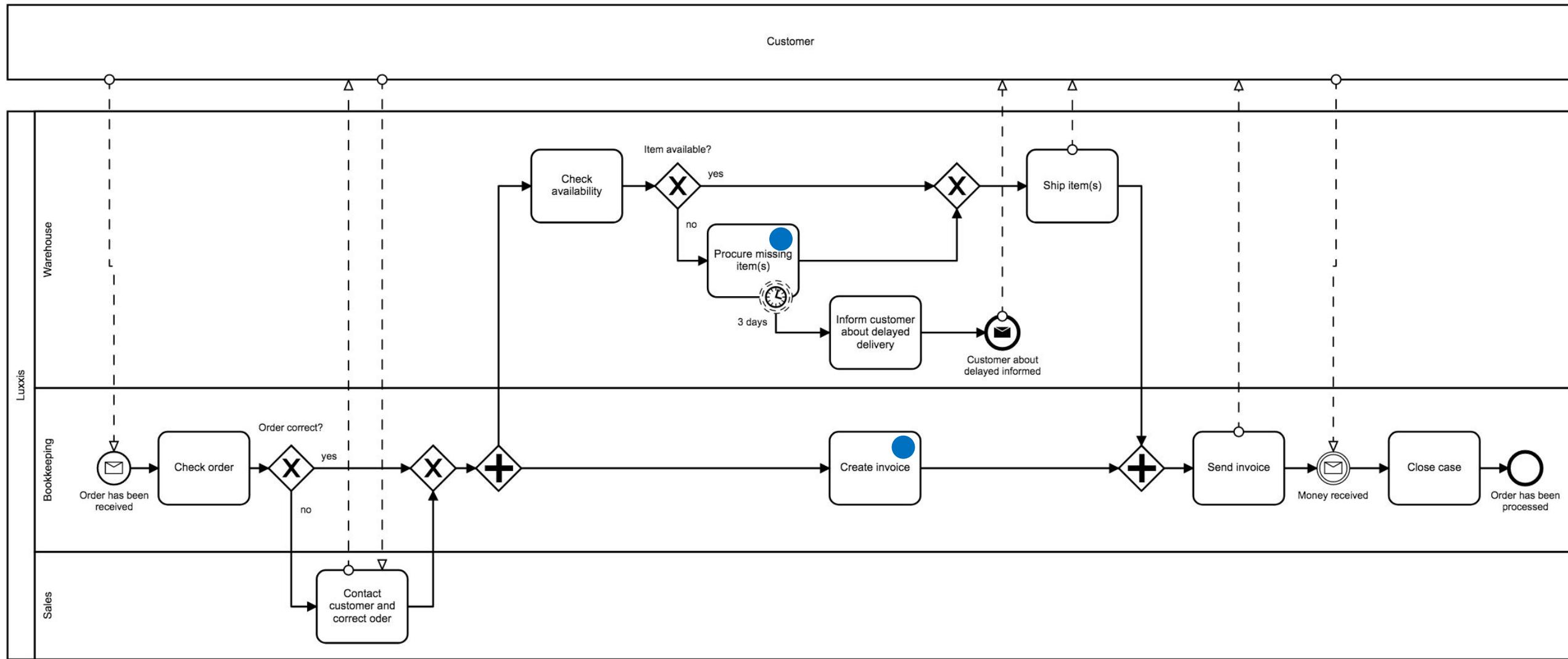


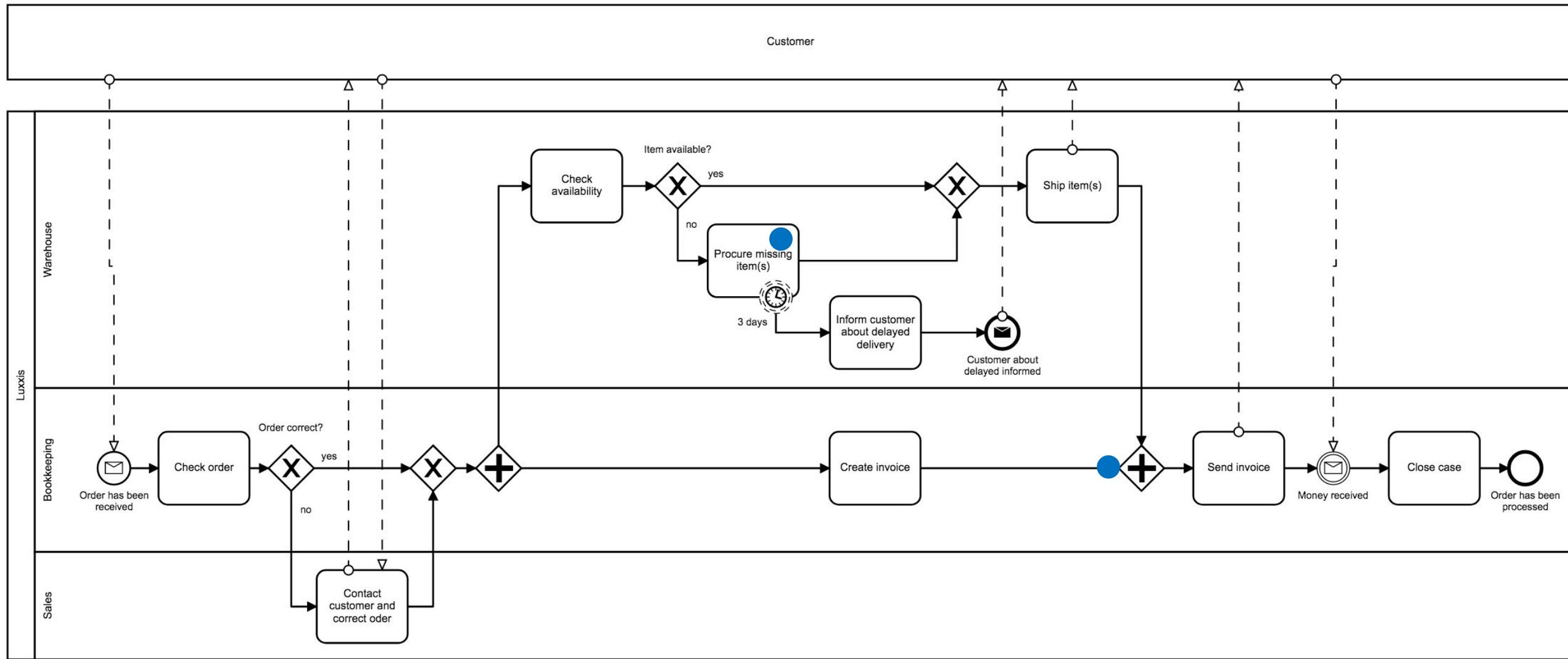


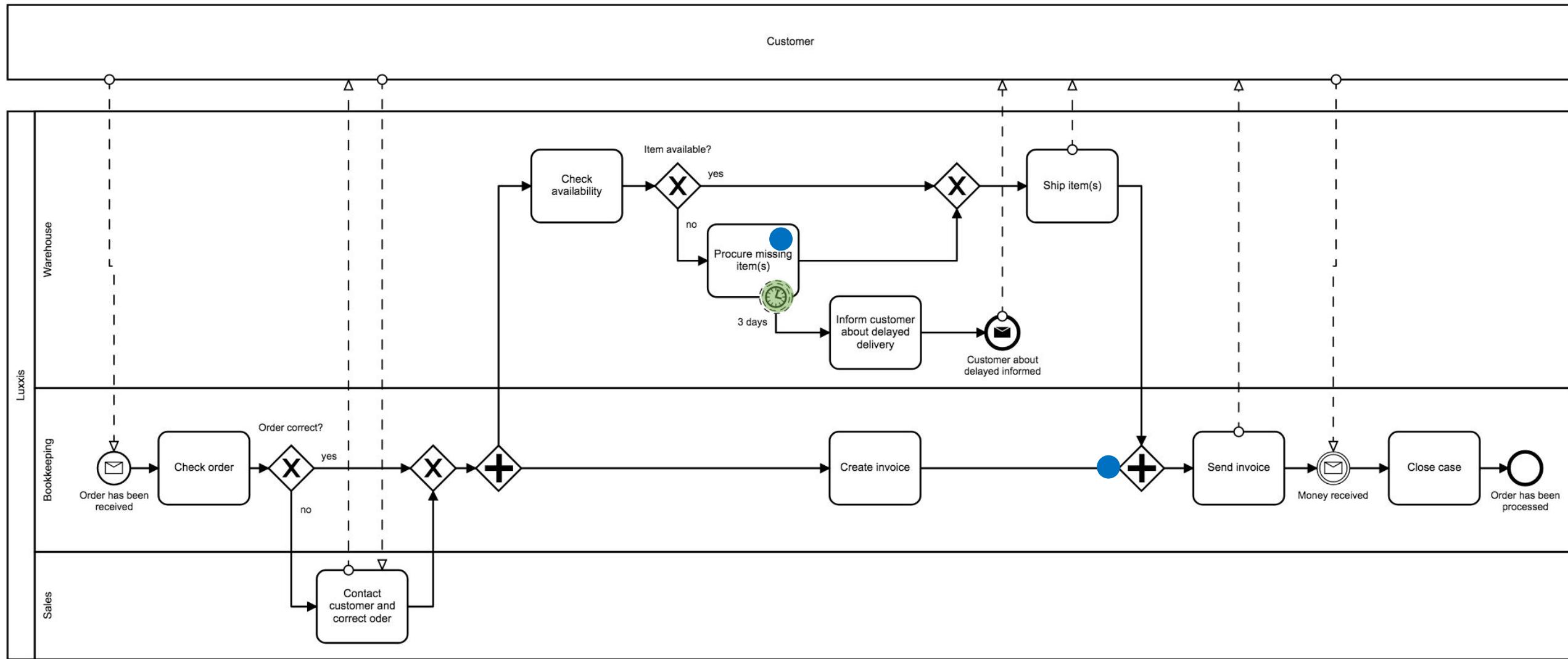


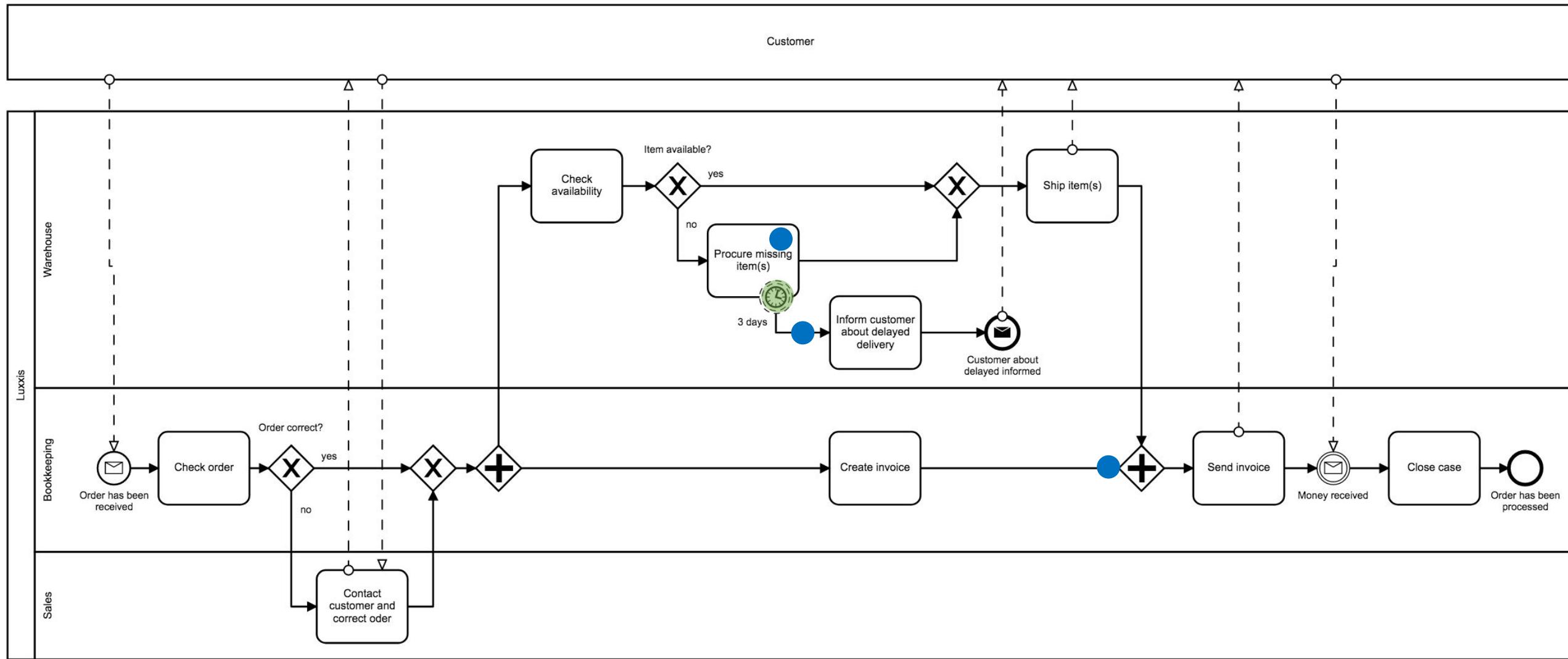


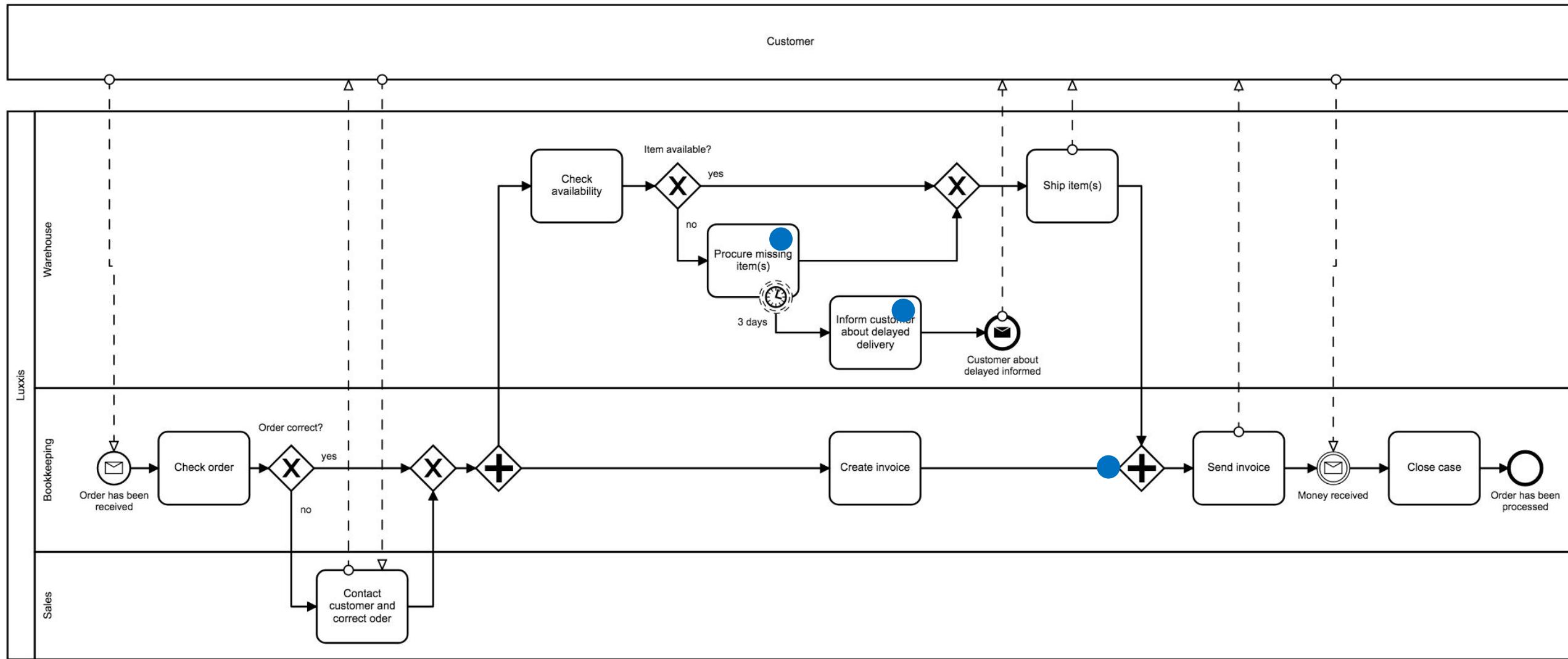


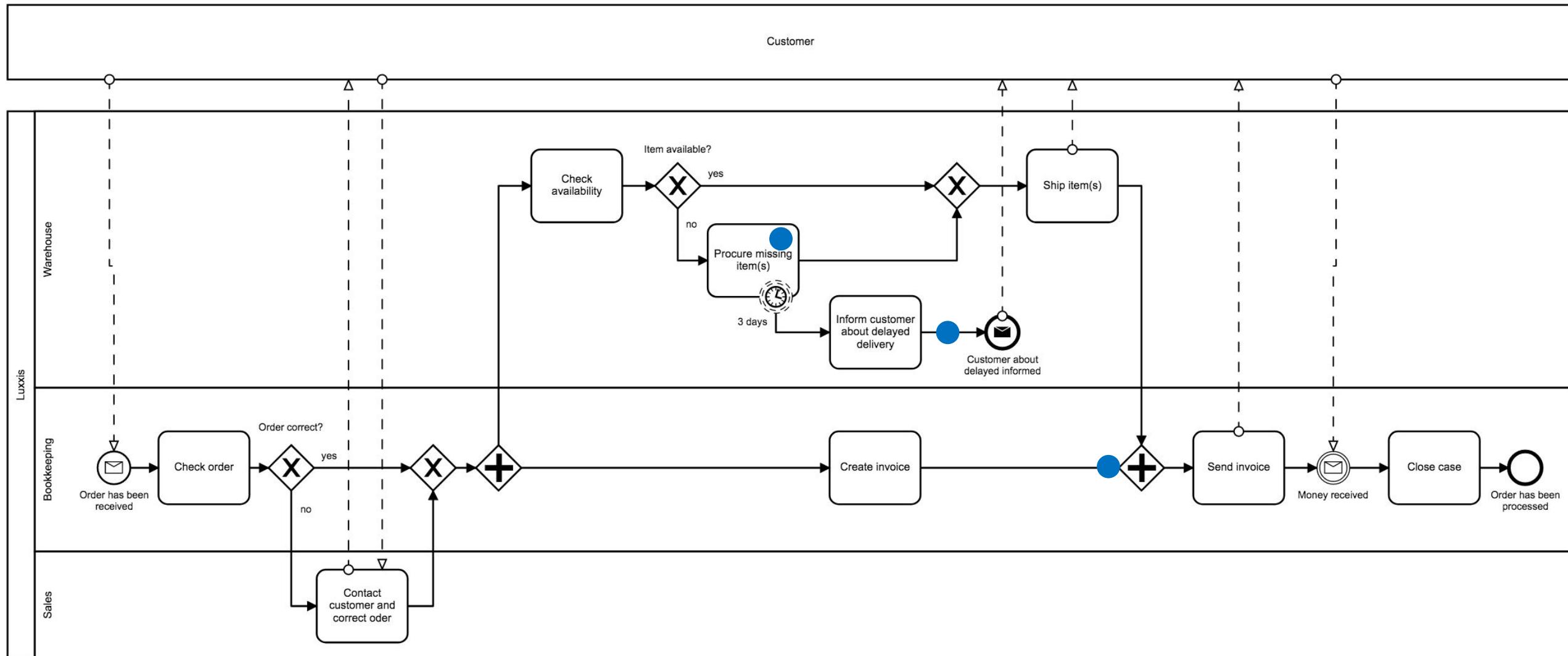


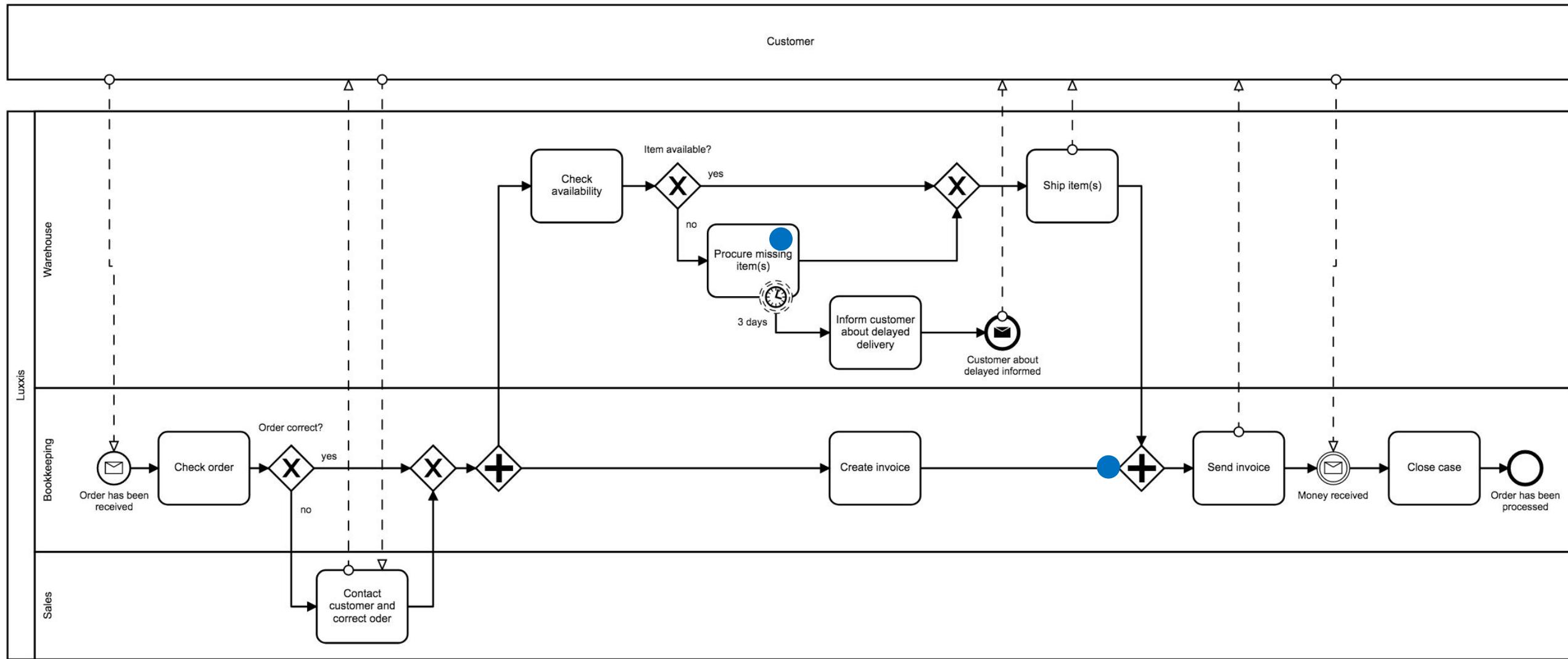


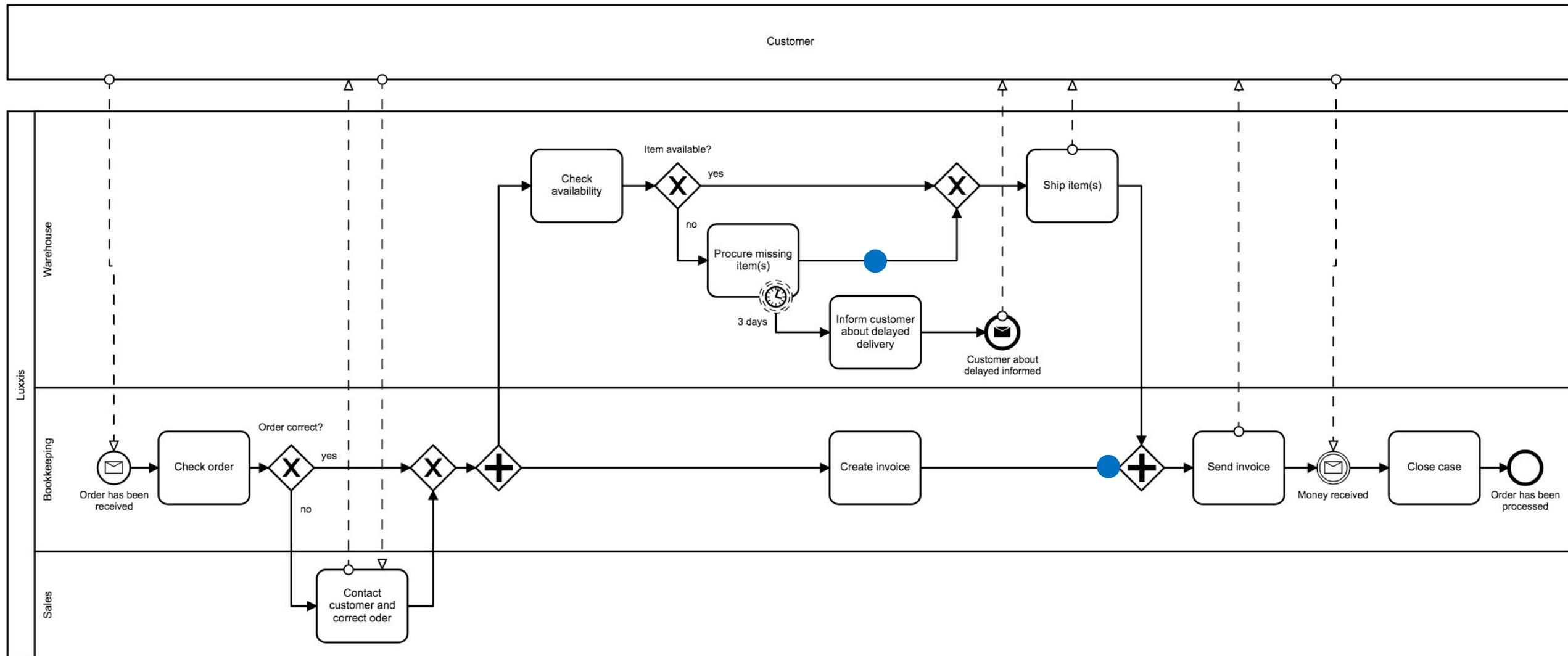


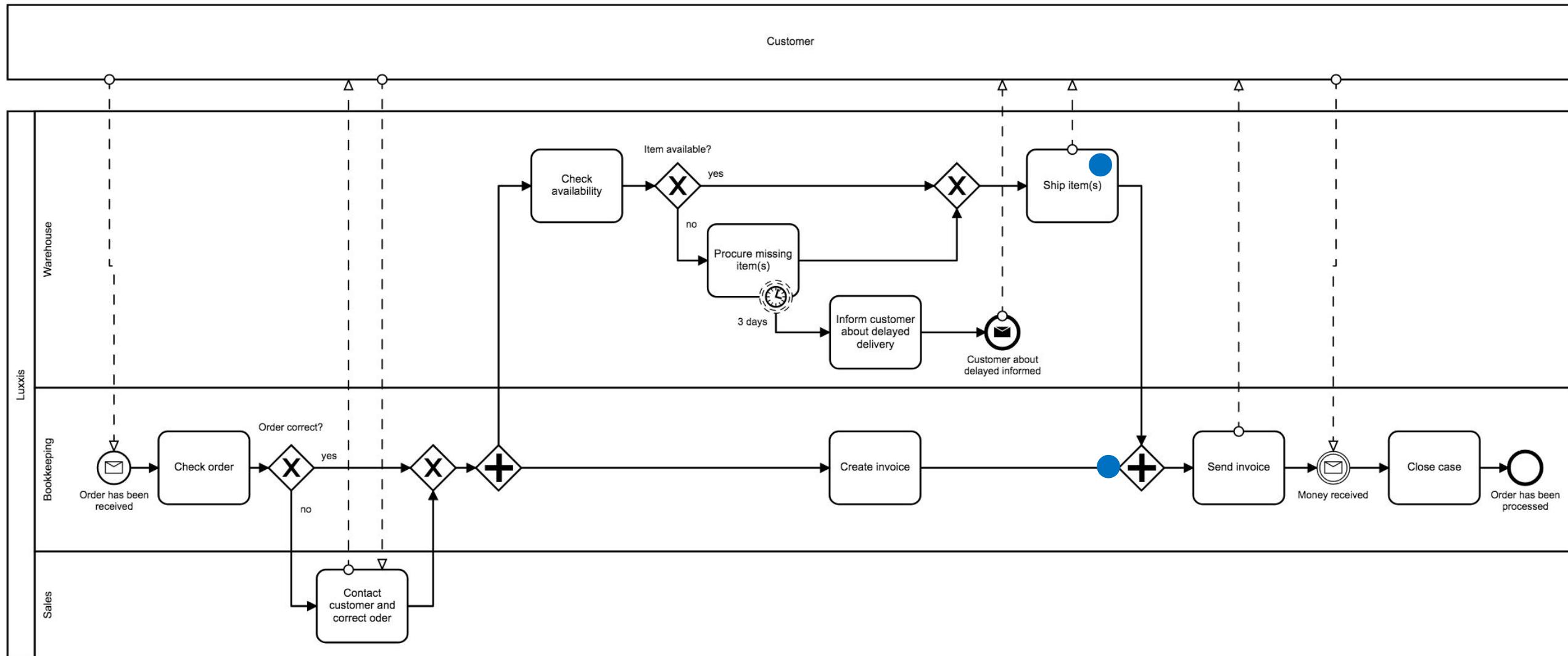








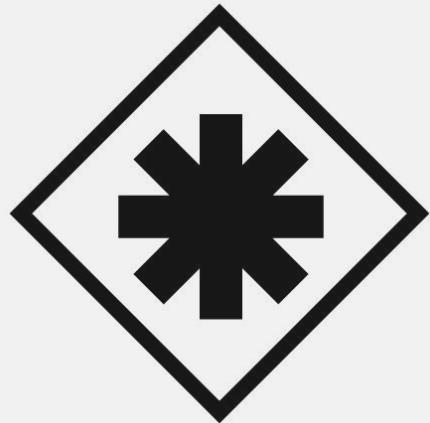




BPMN Theory

process camp

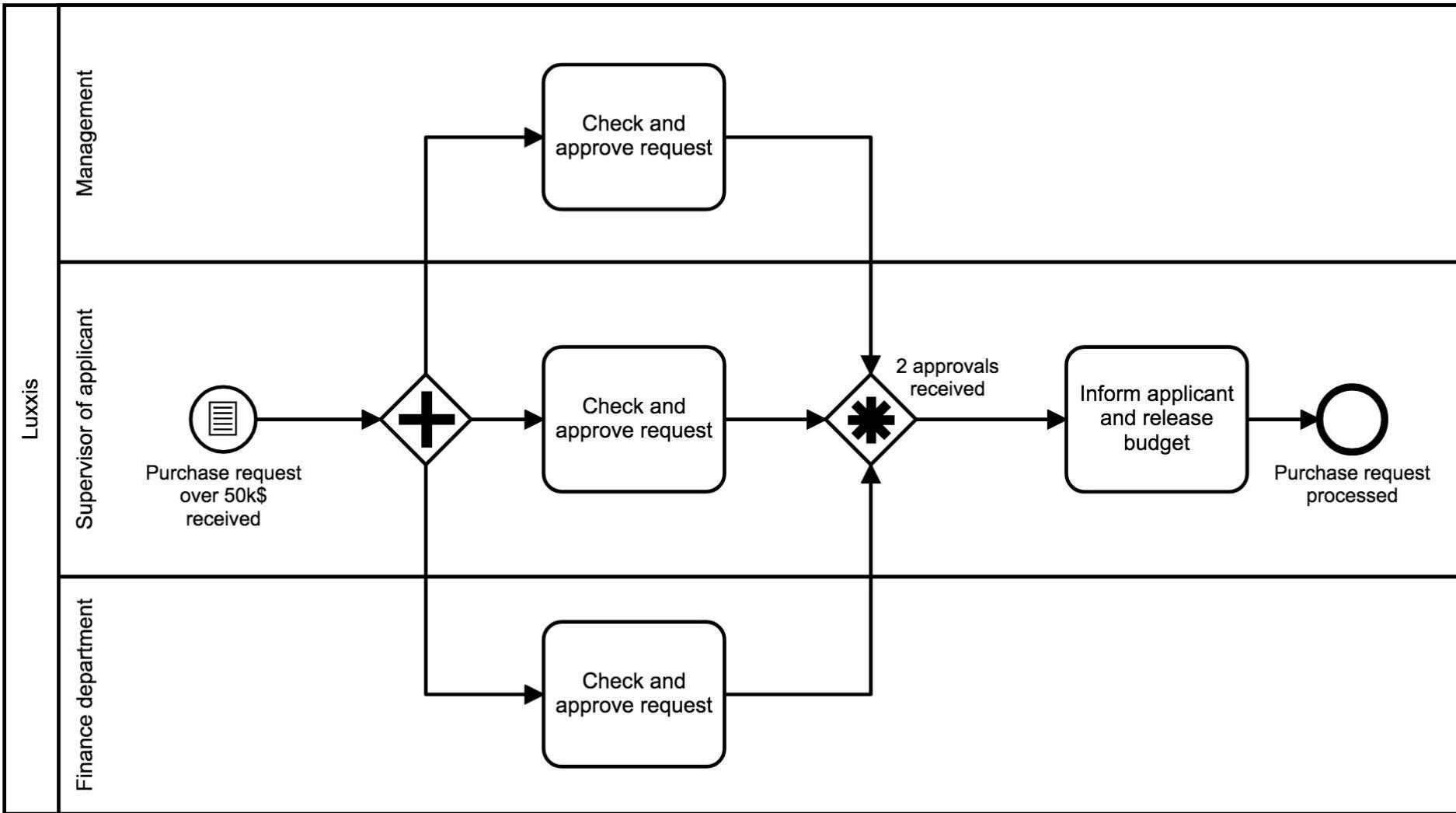
Complex Gateway

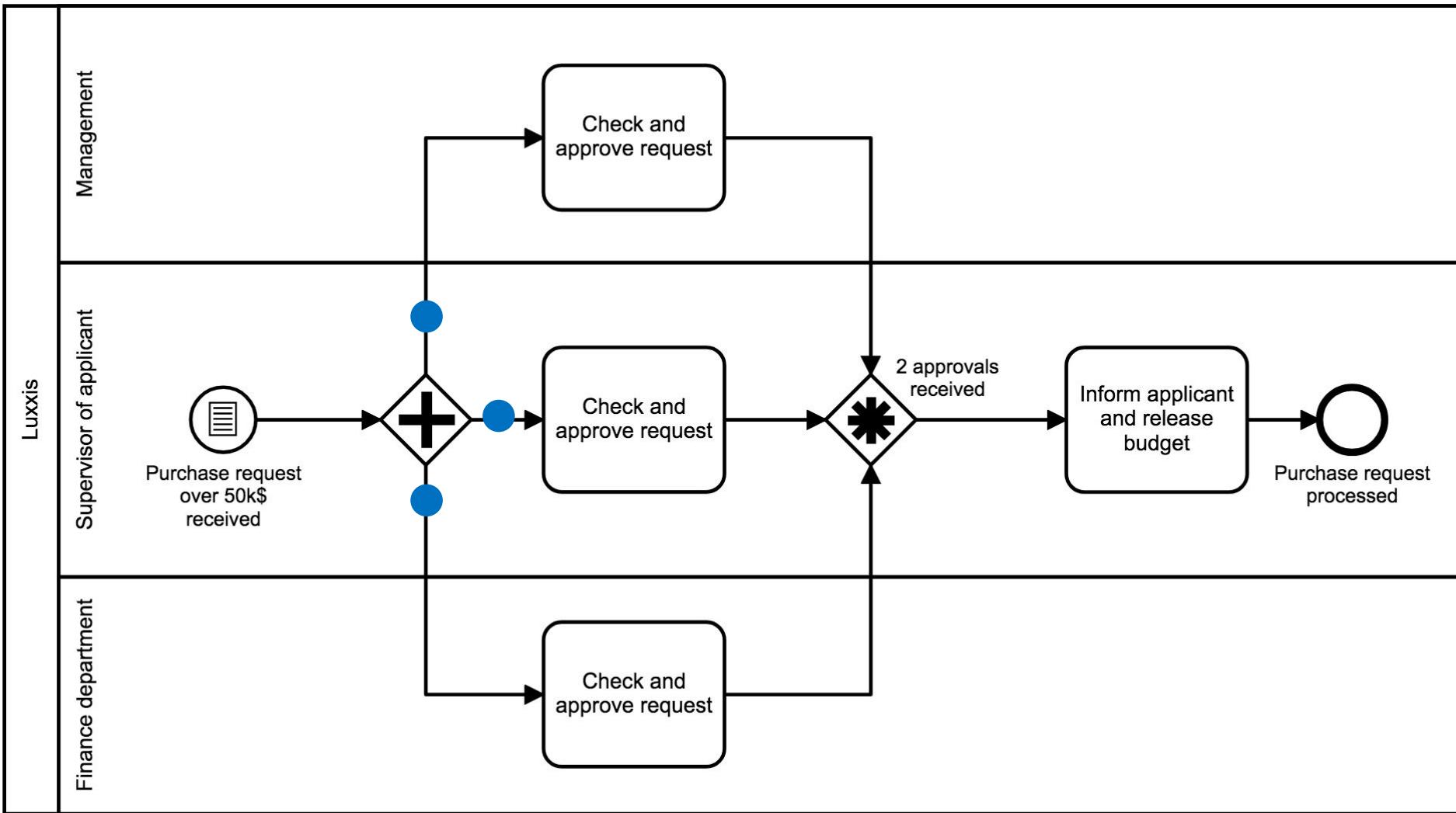


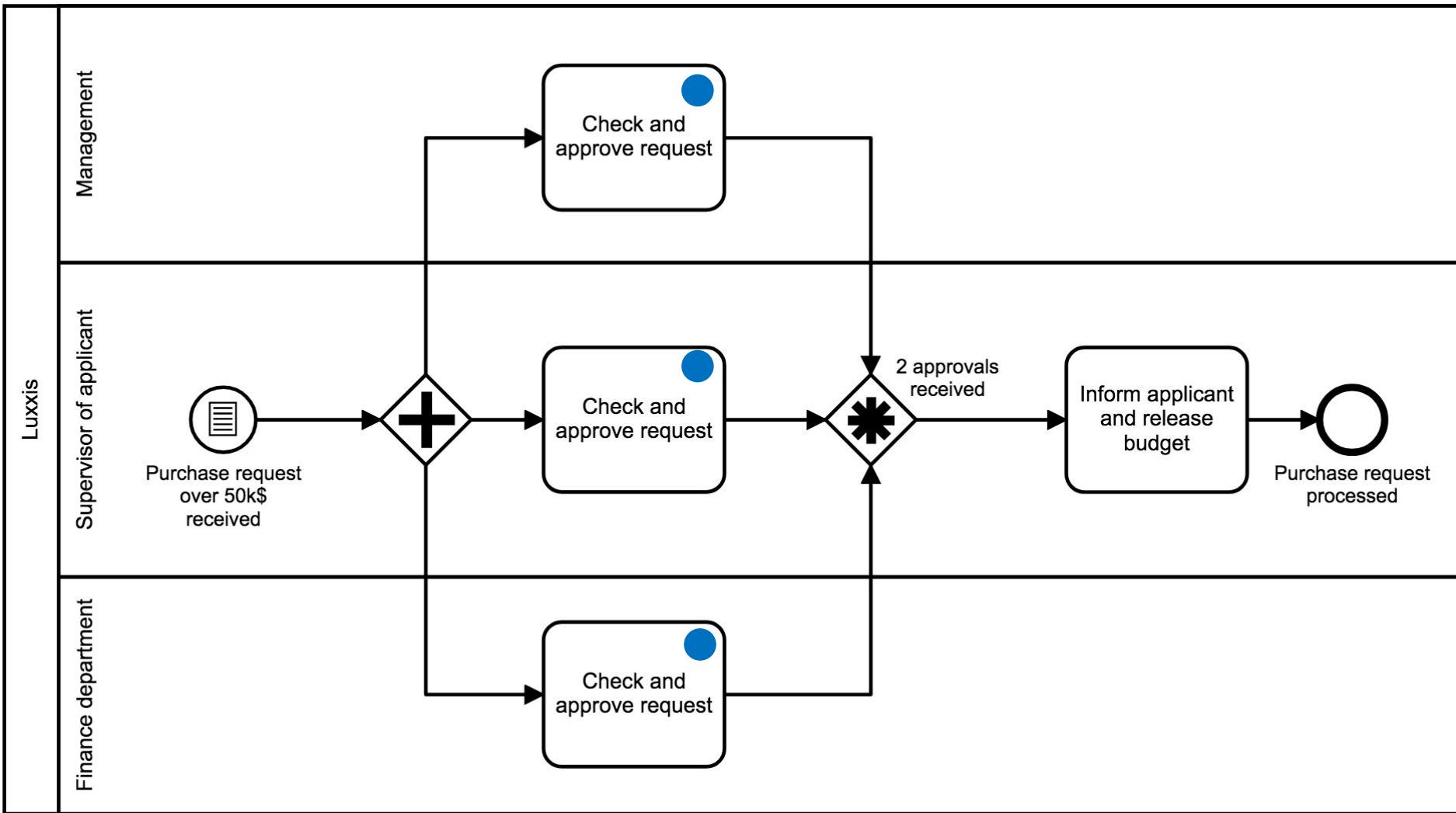
- Allows the definition of custom routing rules
- Should only be used if no other gateway applies

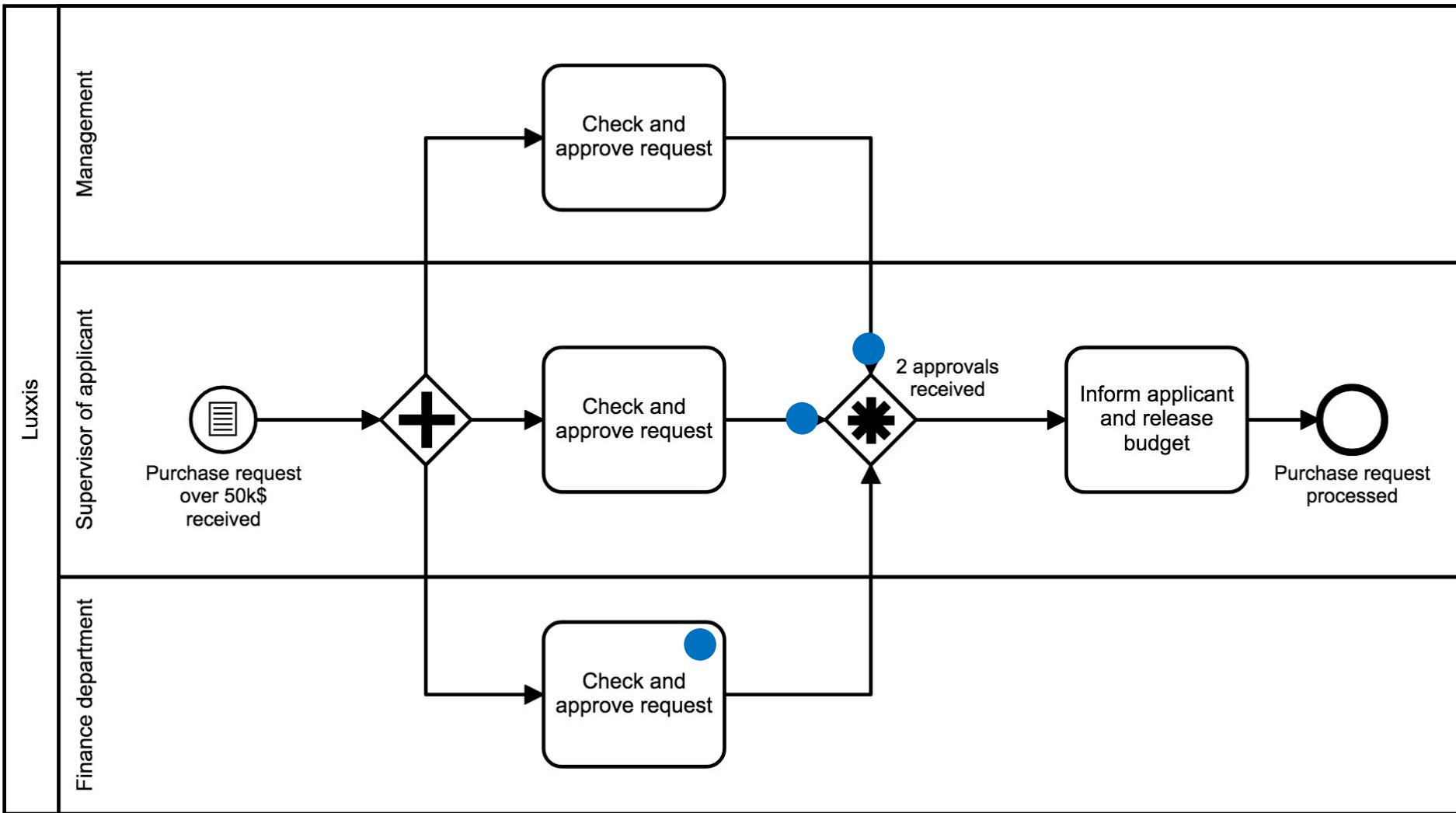


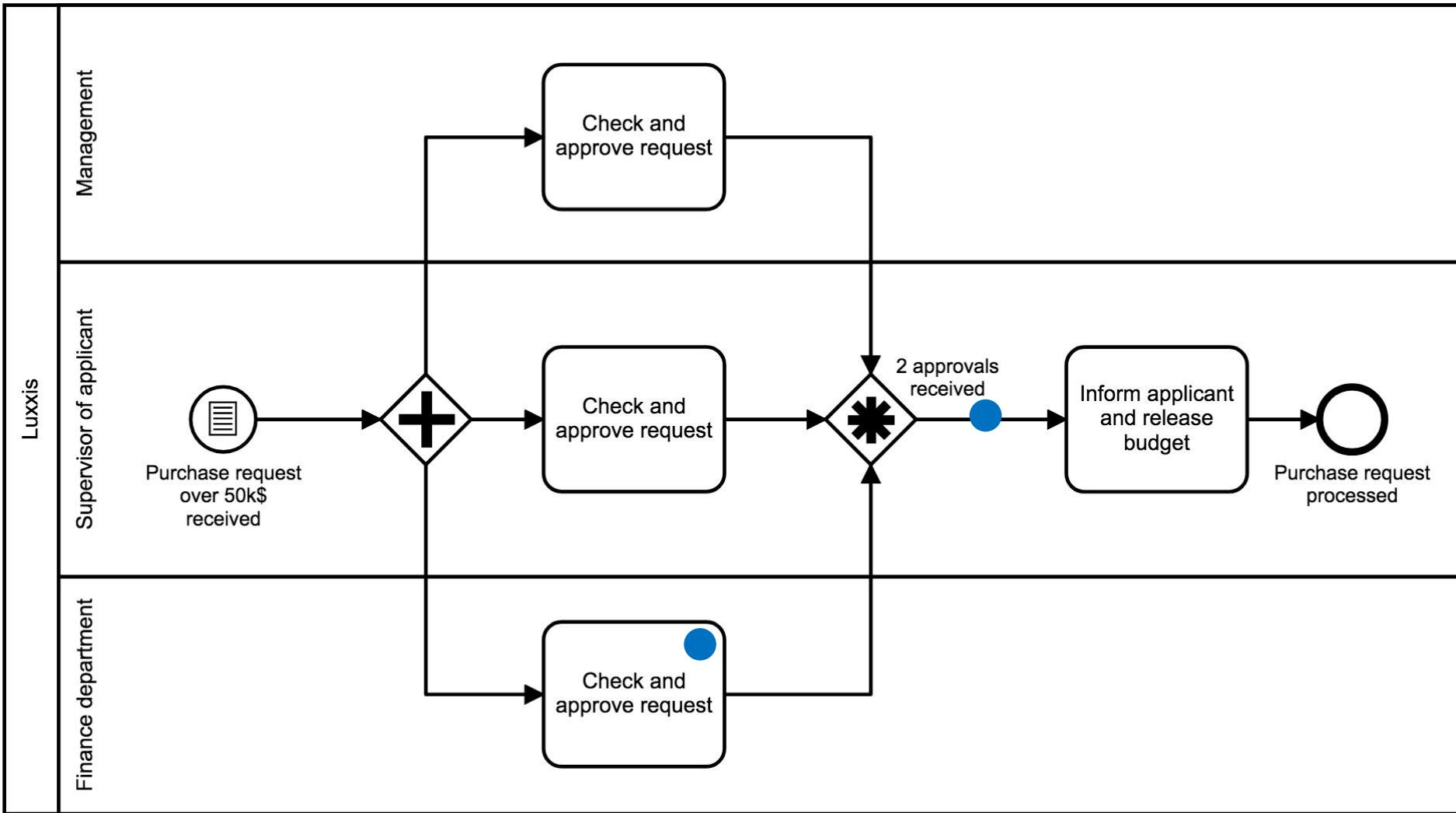
The approval process for purchases over
50k\$ at Luxxis

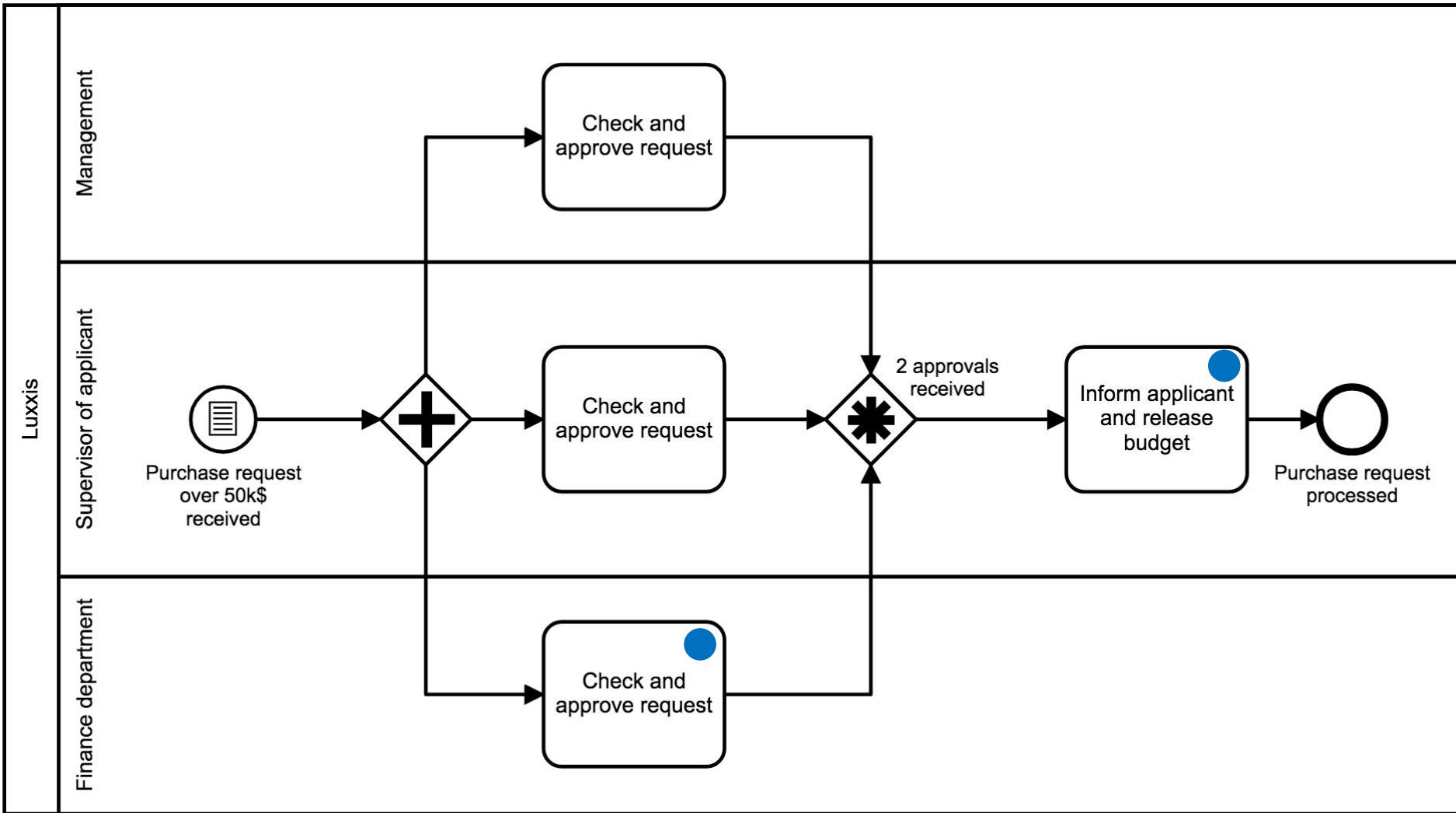


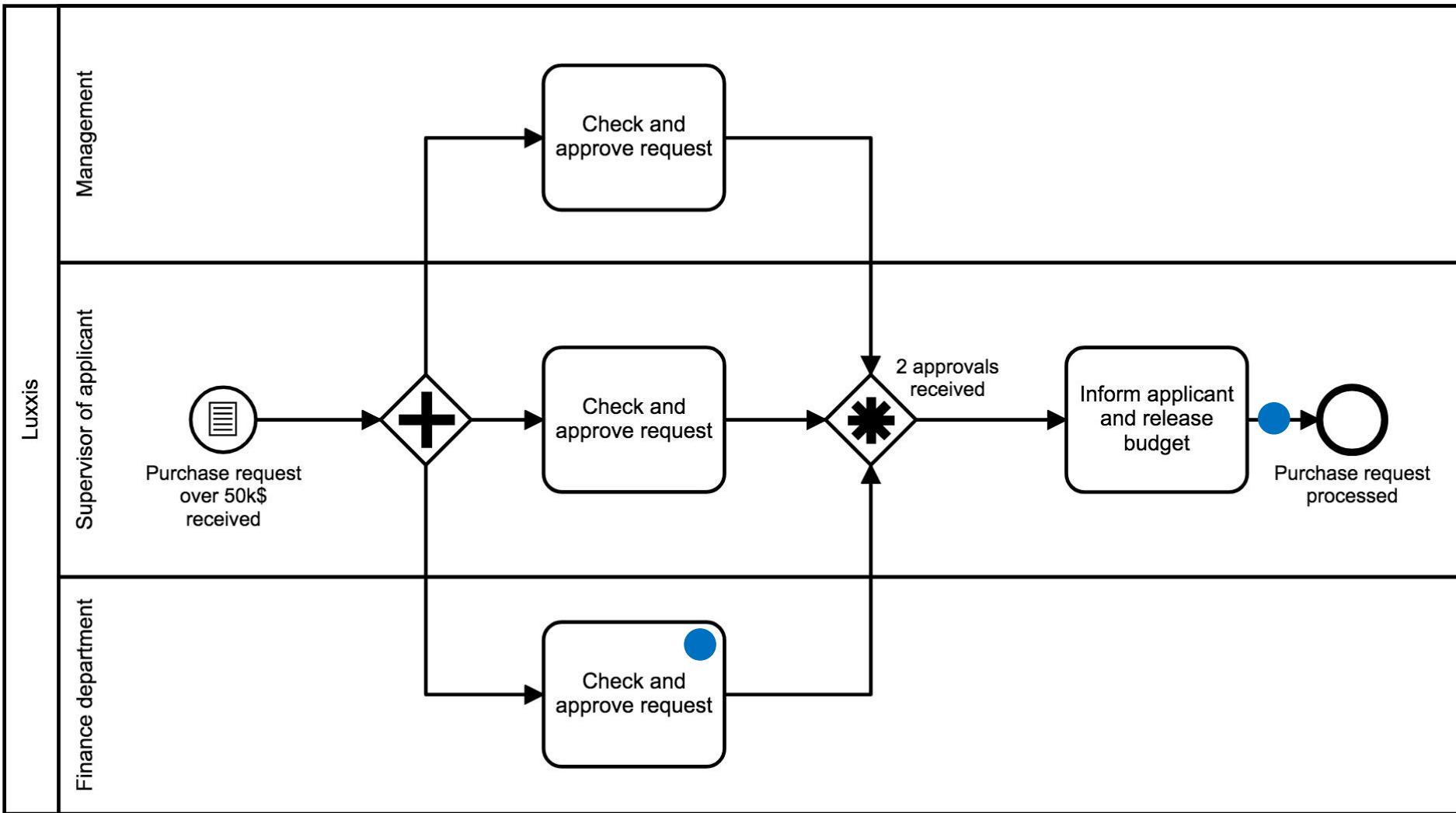


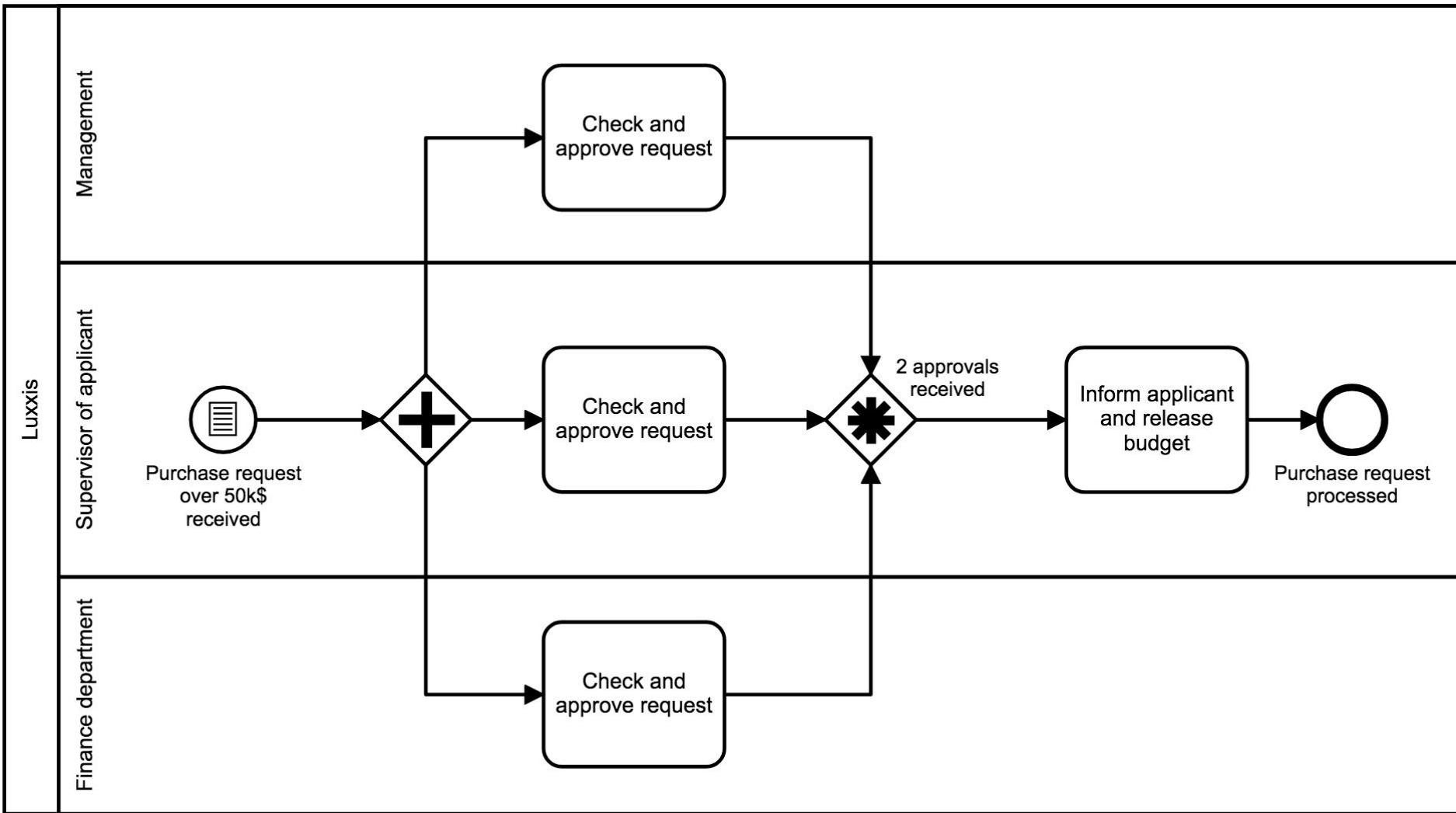












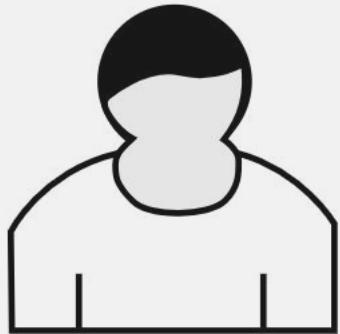


In ~95% of the cases you can define the process without the Complex Gateway

BPMN Theory

process camp

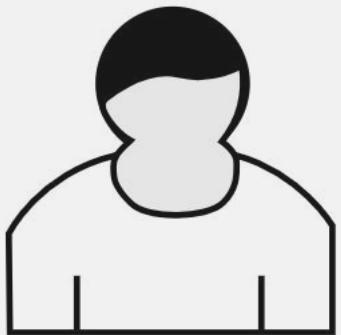
Additional Participant*



- A role that takes part in a task, in addition to the role specified via the lane
- Often used for approvals

*[BPMN Extension by SAP Signavio]

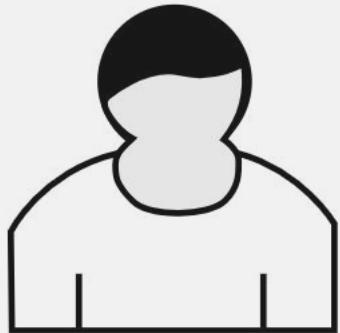
RACI

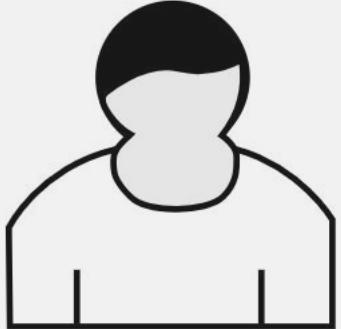


process camp

RACI

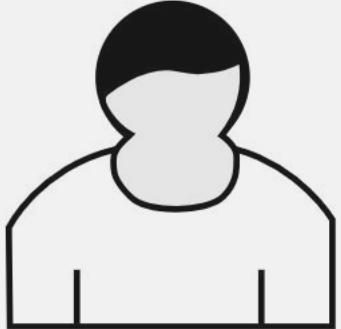
- Responsible





RACI

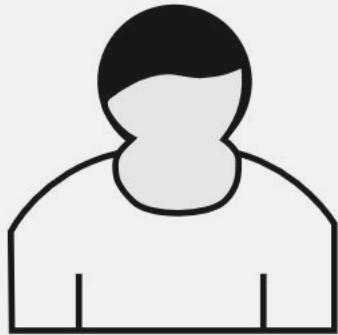
- Responsible
- Accountable



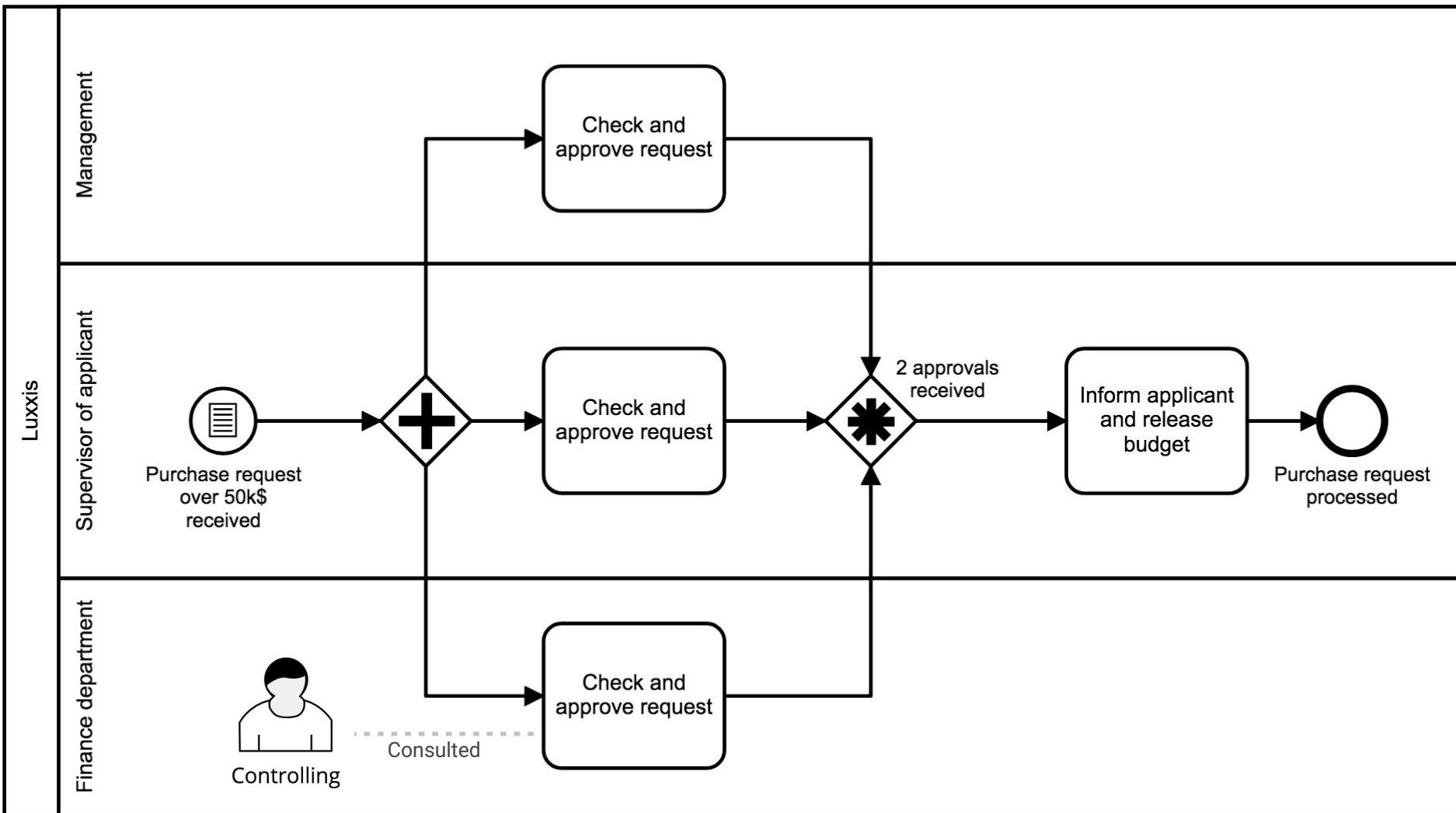
RACI

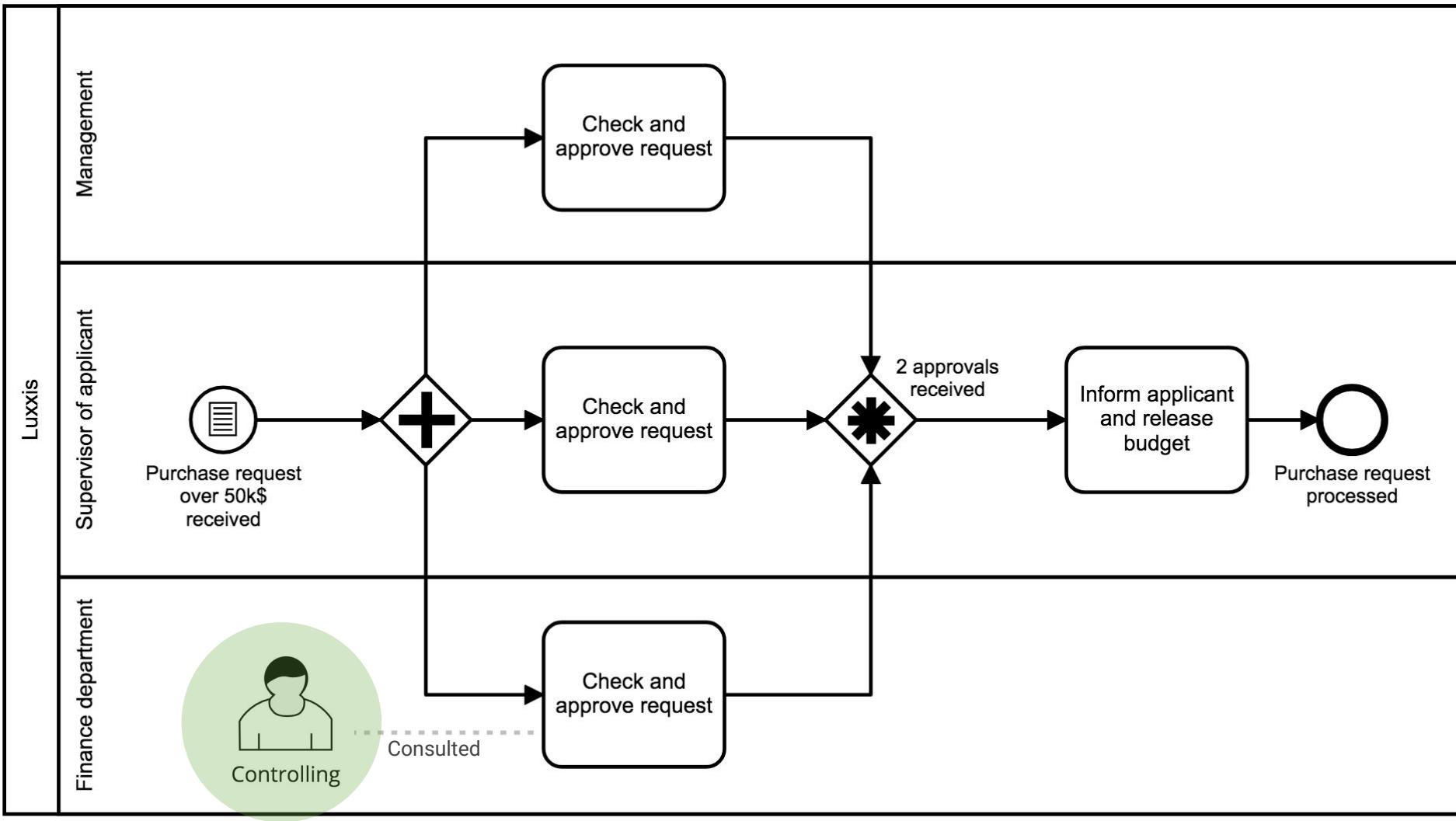
- Responsible
- Accountable
- Consulted

RACI



- Responsible
- Accountable
- Consulted
- Informed





BPMN Applied





Fastfore Consulting

- Fastfore is a fast growing consultancy
- The hiring processes is manual and causes chaos

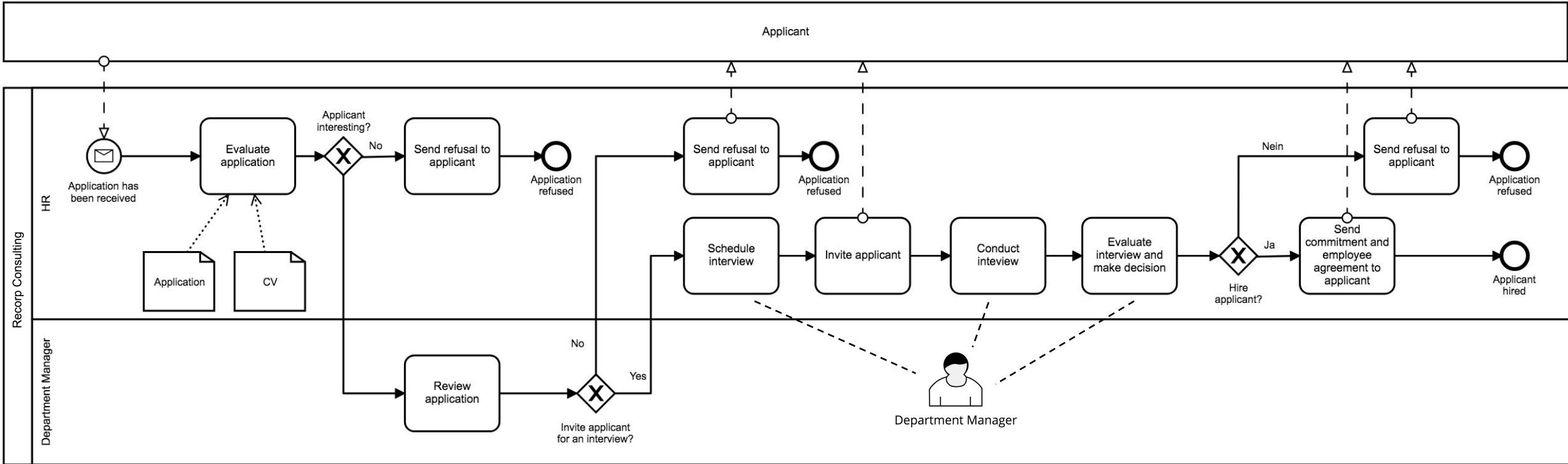
A photograph of a man and a woman in professional attire. The man, on the left, has dark hair and a beard, wearing a blue blazer over a white shirt. The woman, on the right, has blonde hair and is wearing a black blazer over a white blouse. They are both smiling and looking at a tablet device held by the woman. The background is a bright office environment.

Fastfore Consulting

- Jessica, the head of HR, wants an automated workflow that handles the applicant cases

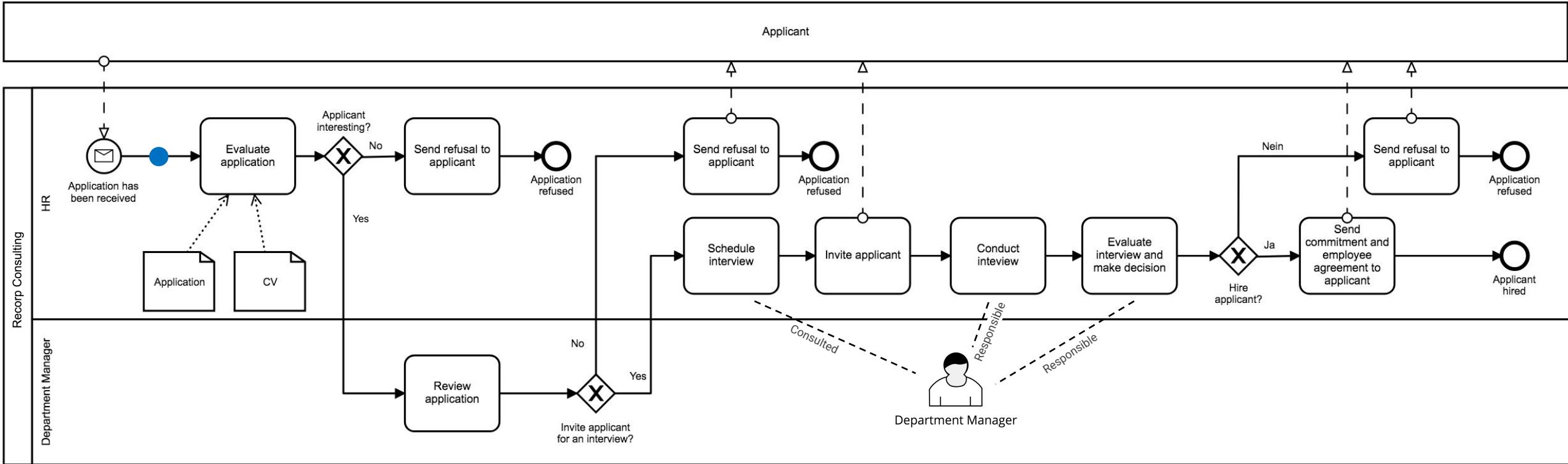


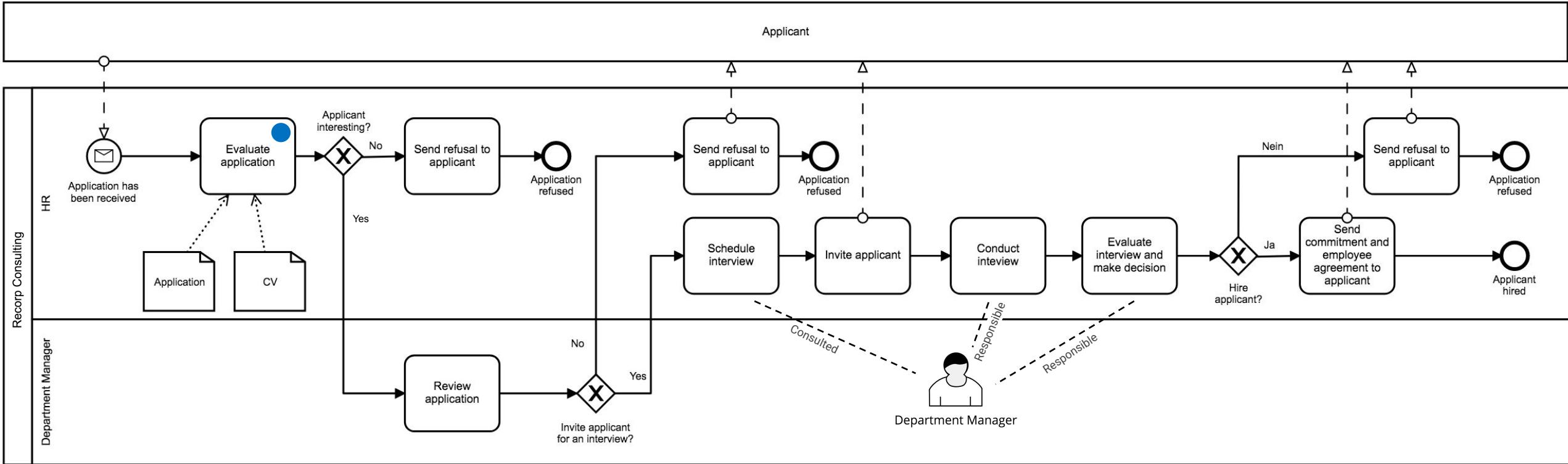
First step, understanding the **business requirements**

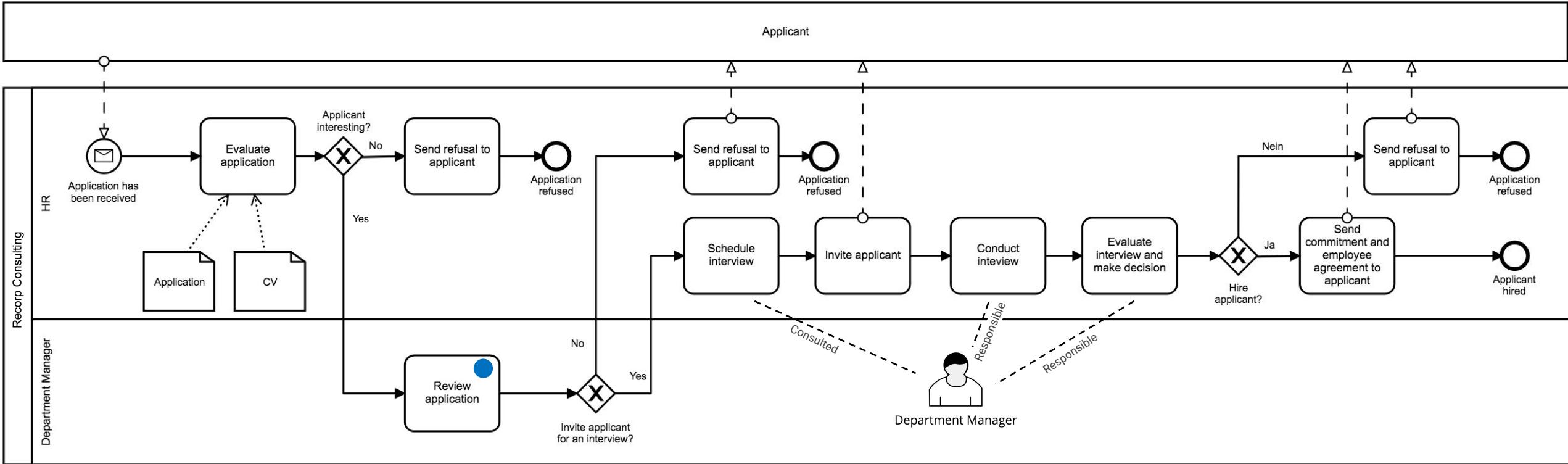


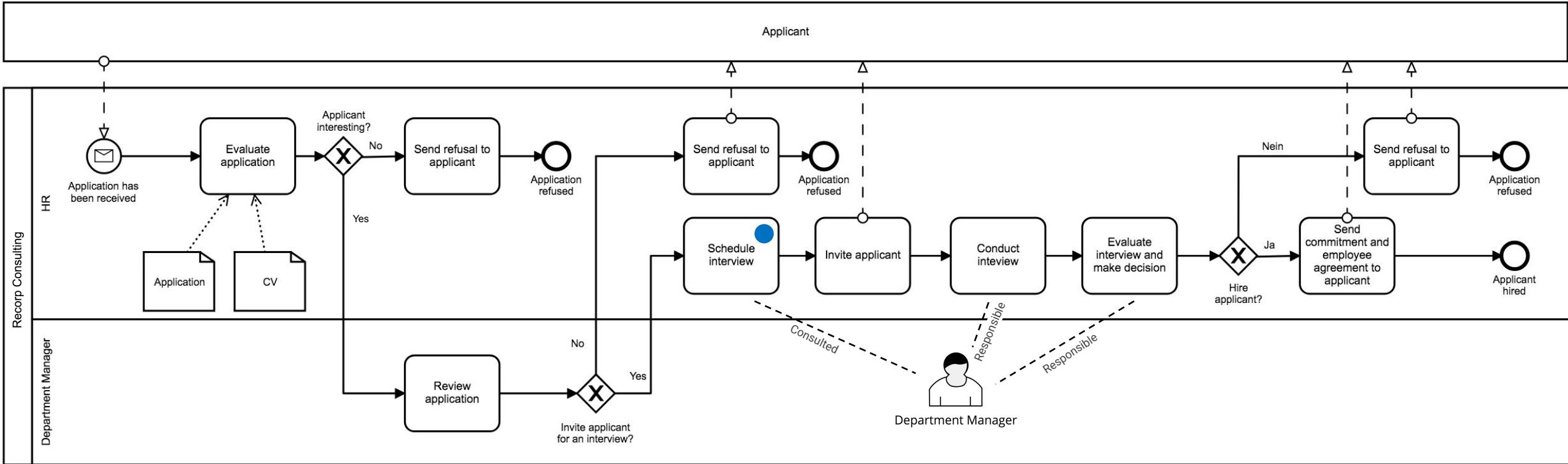


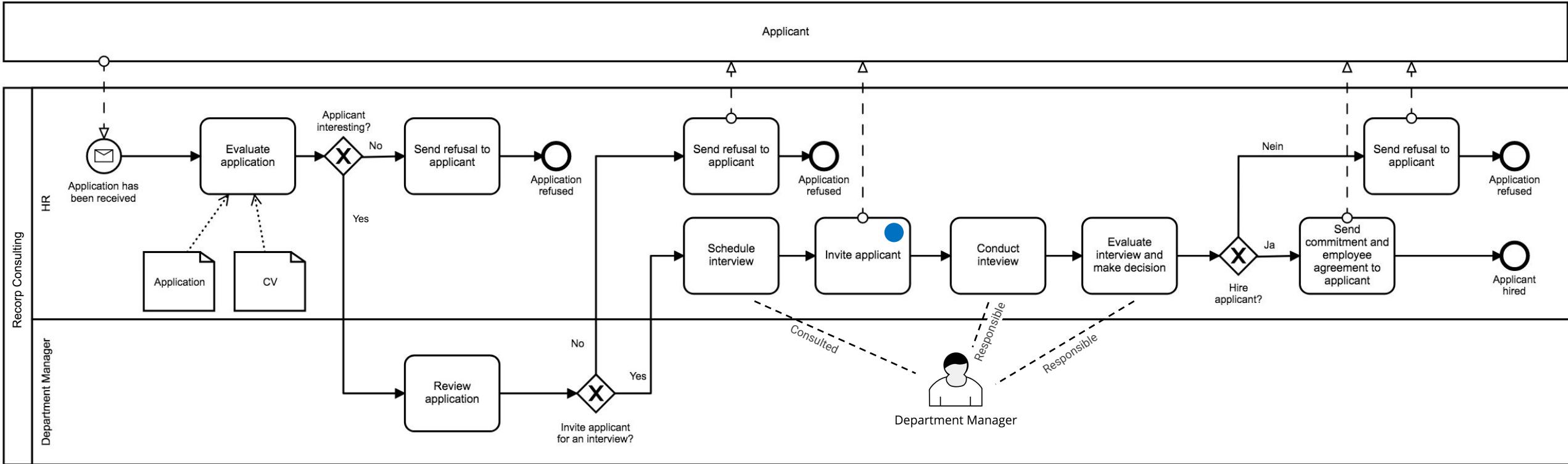
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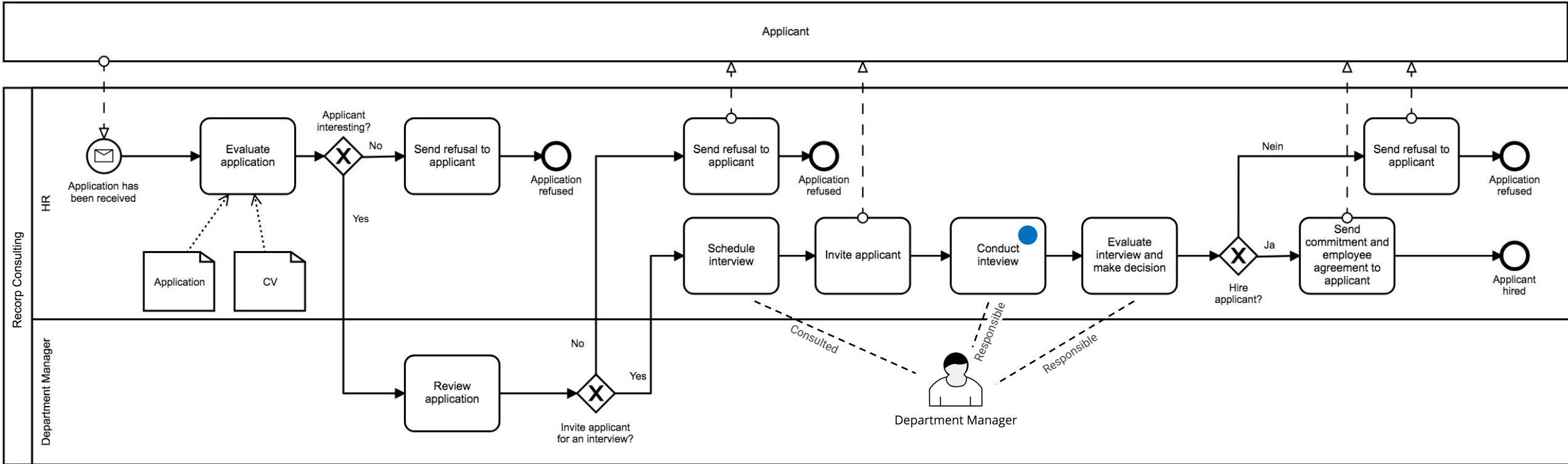


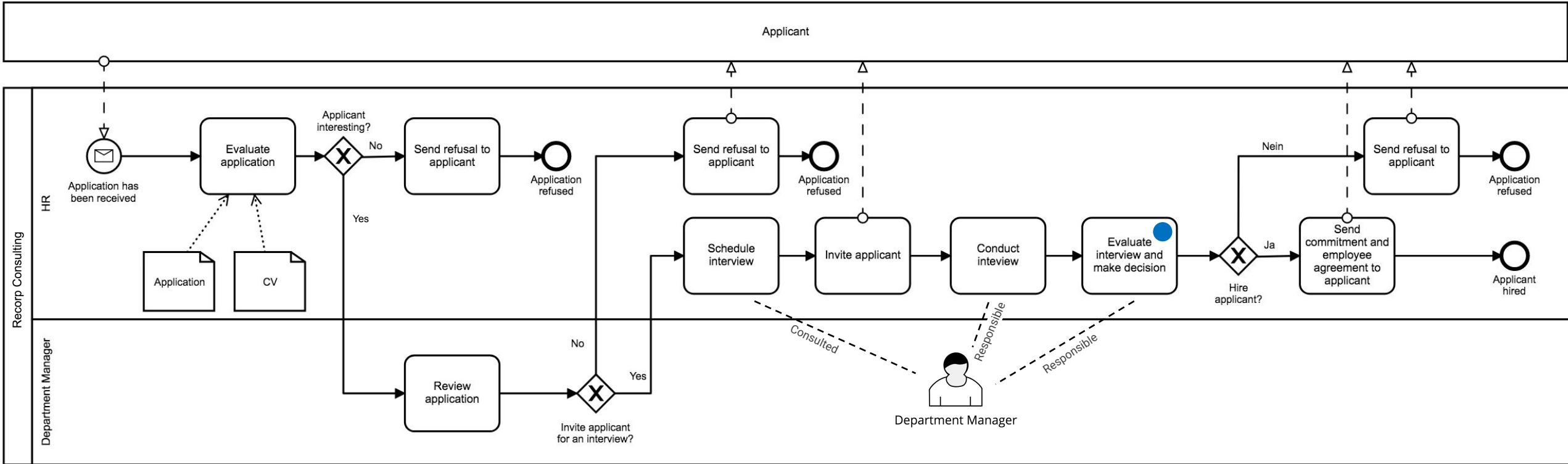


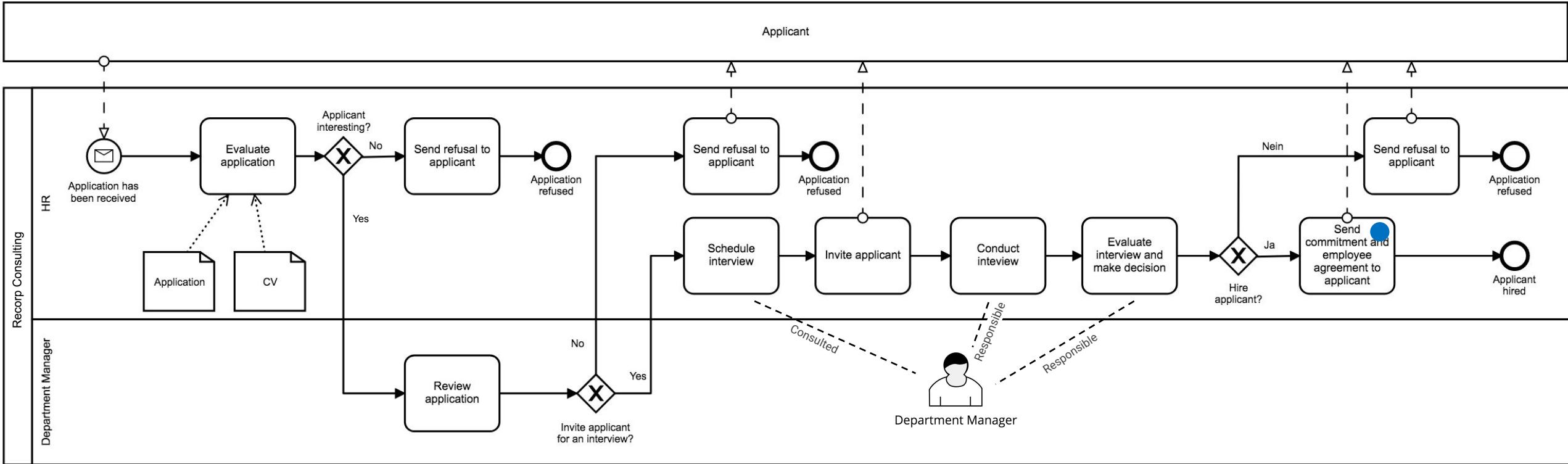


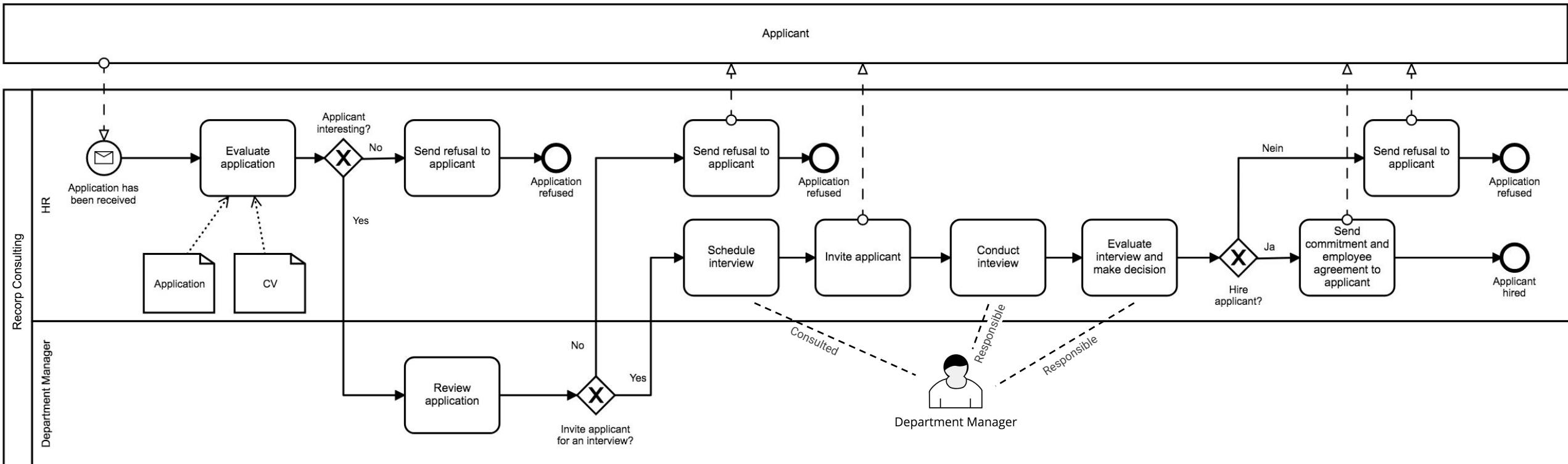


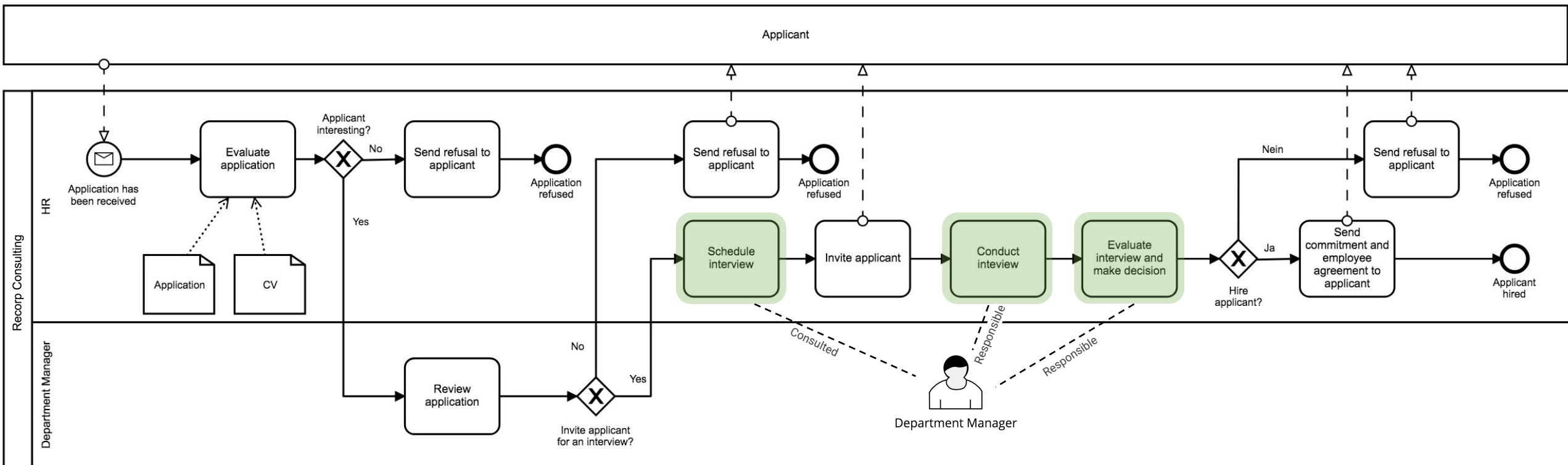






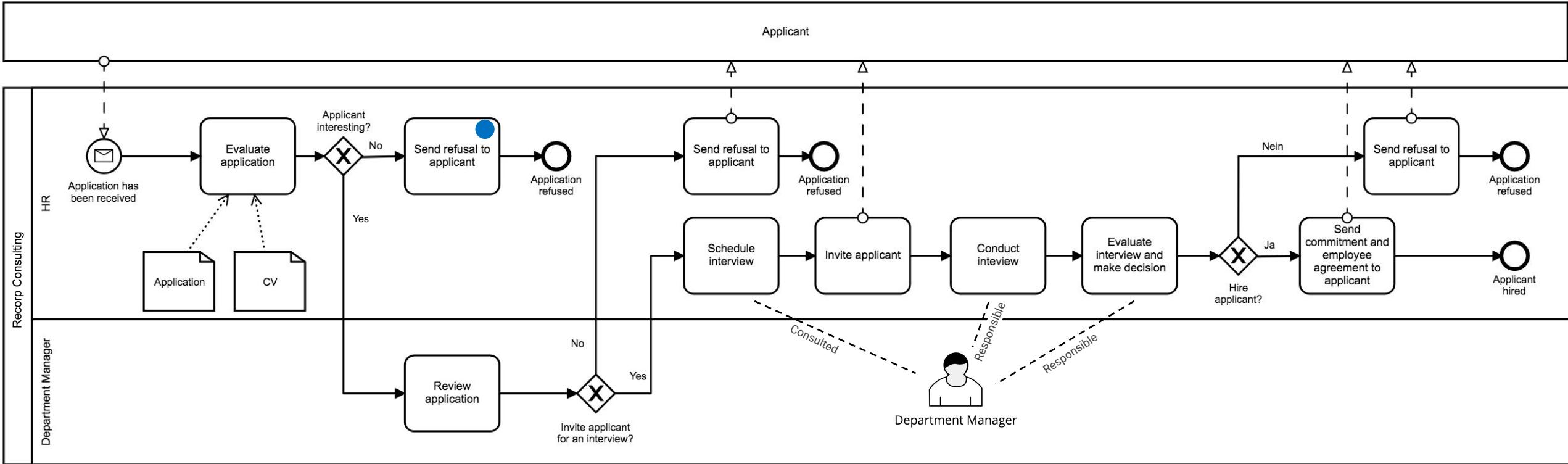


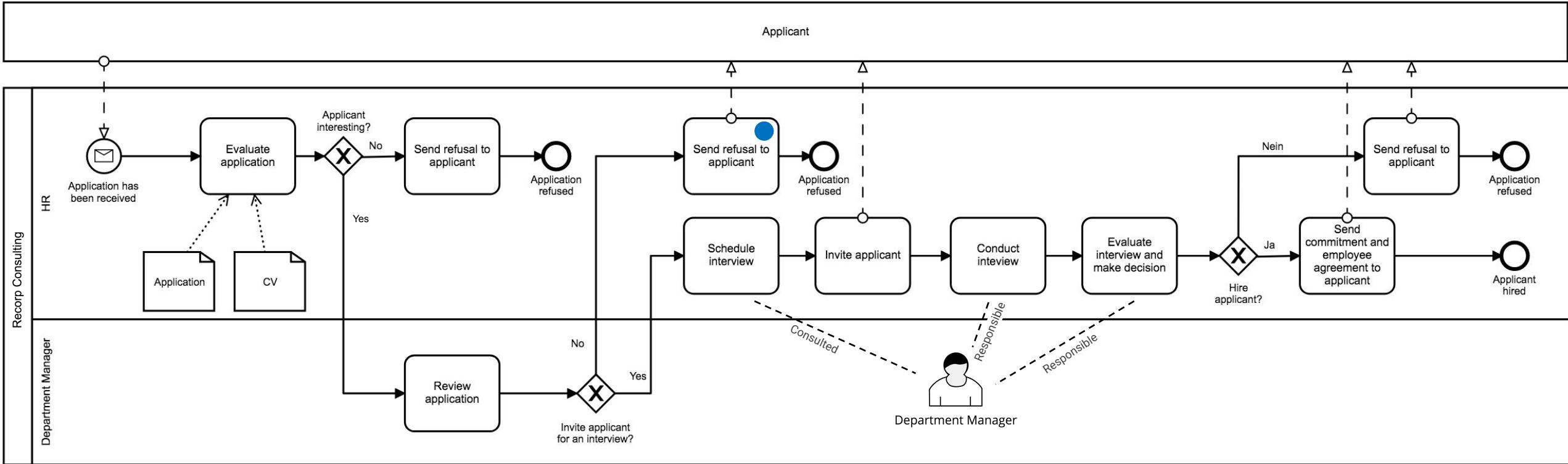


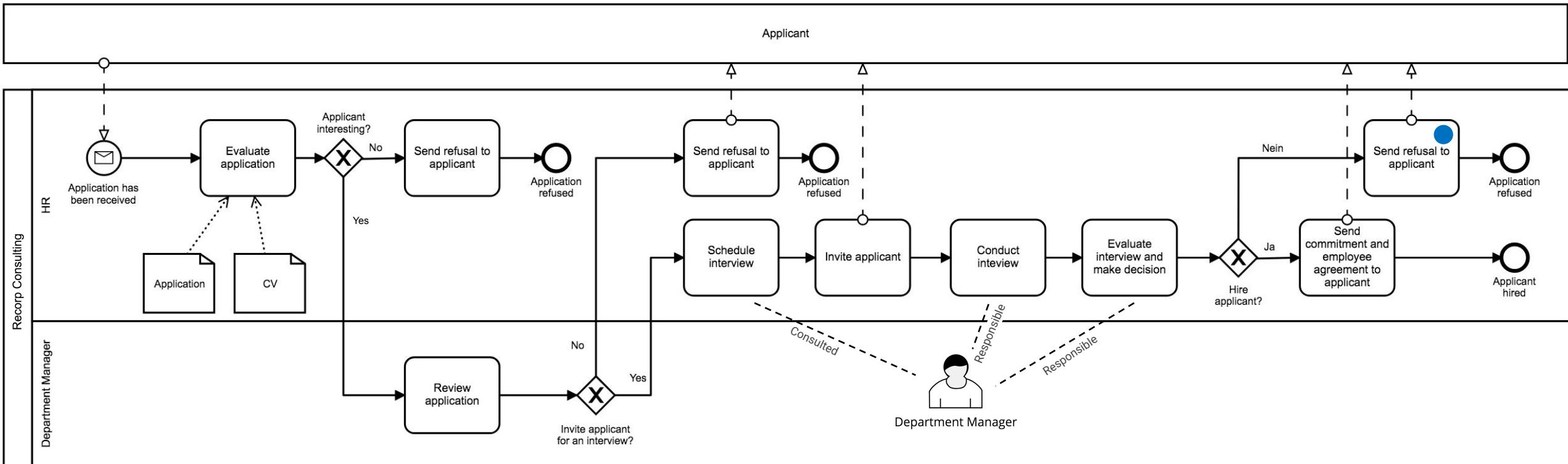




What if the applicant gets disapproved?









process camp



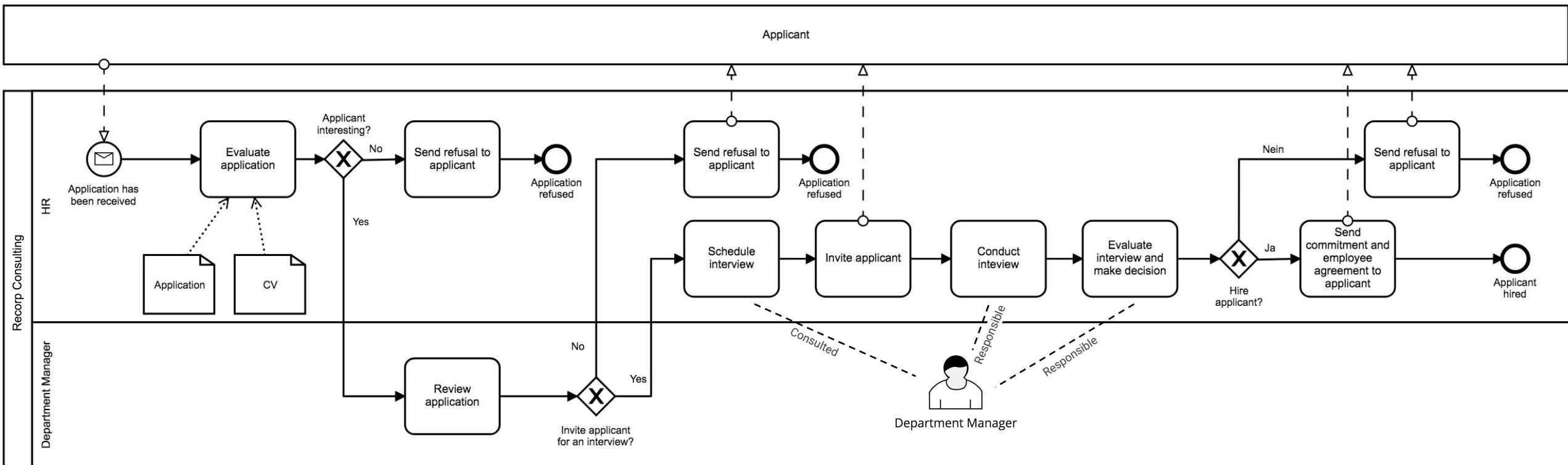
process camp

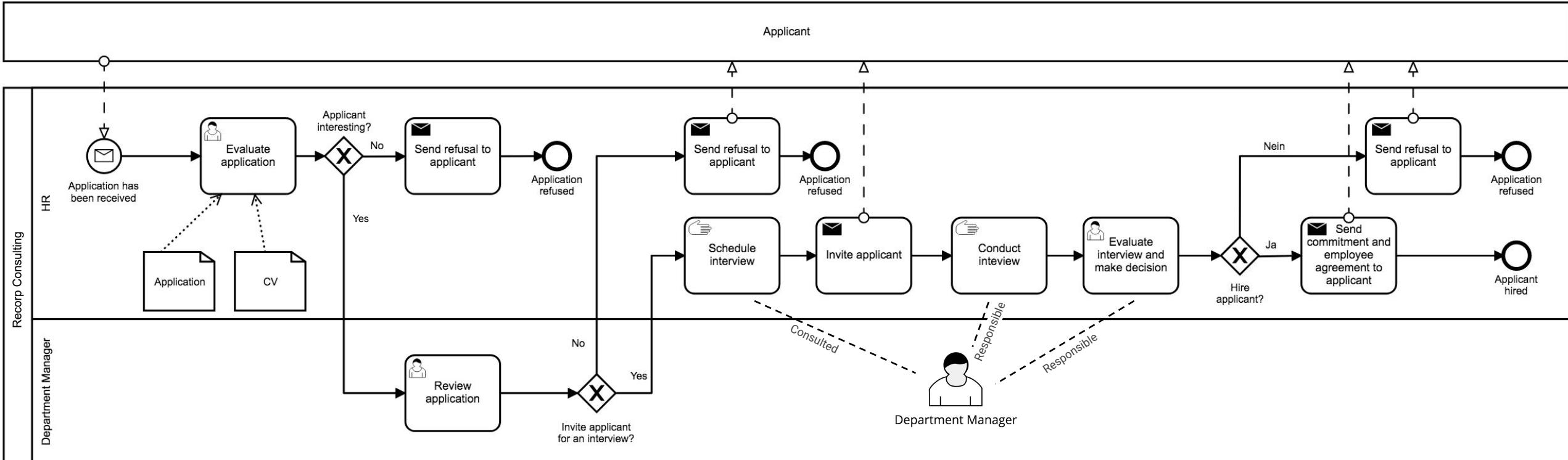


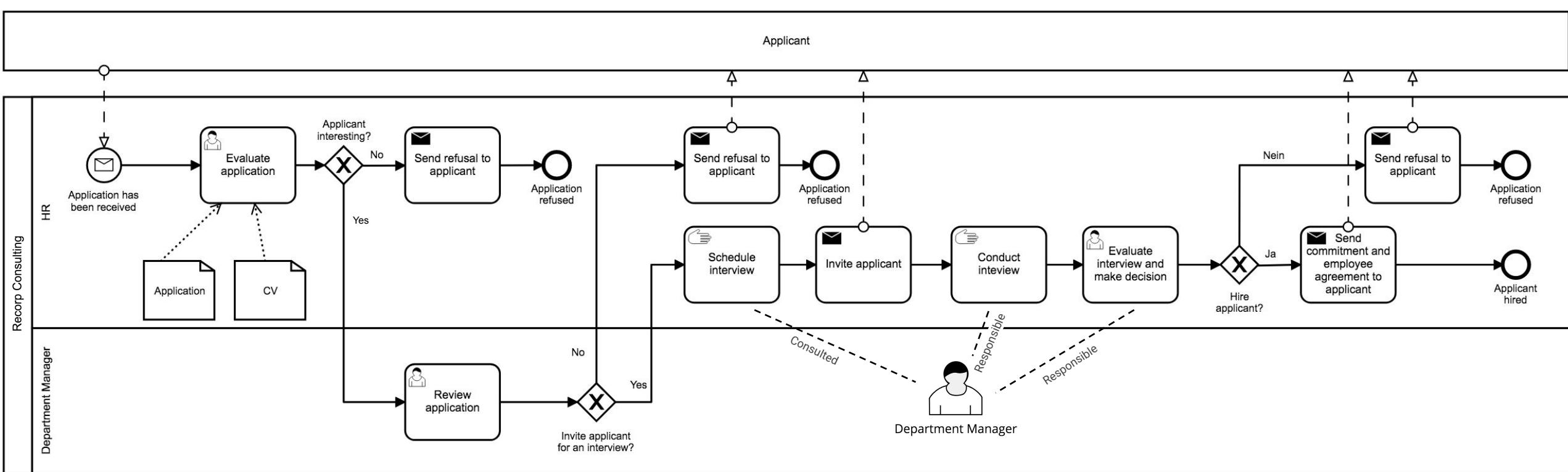
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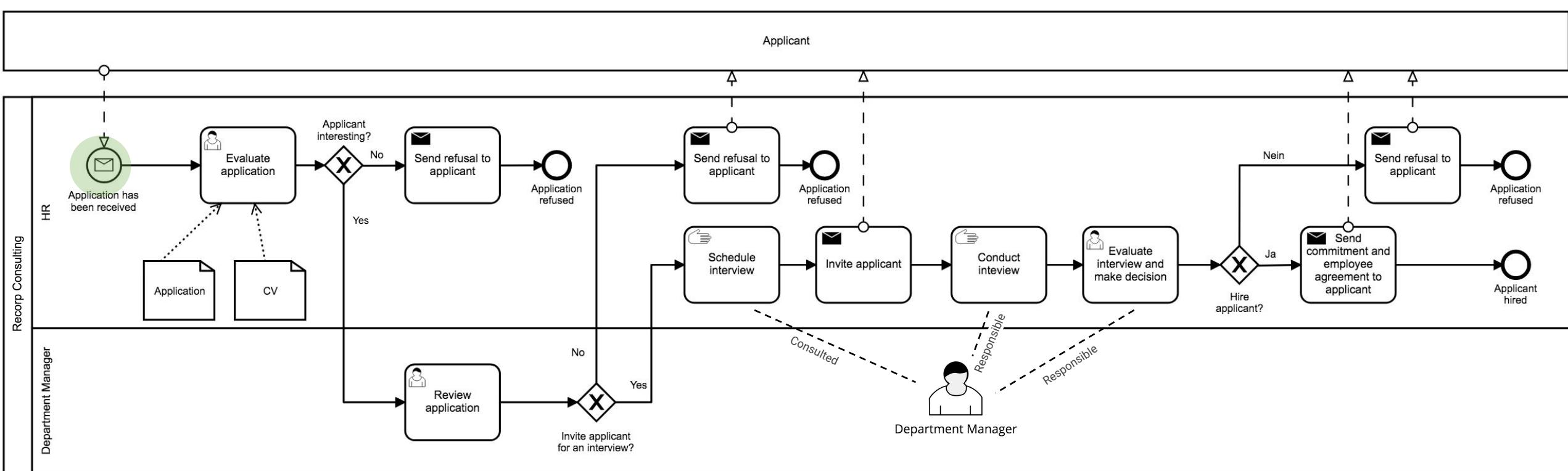


process camp



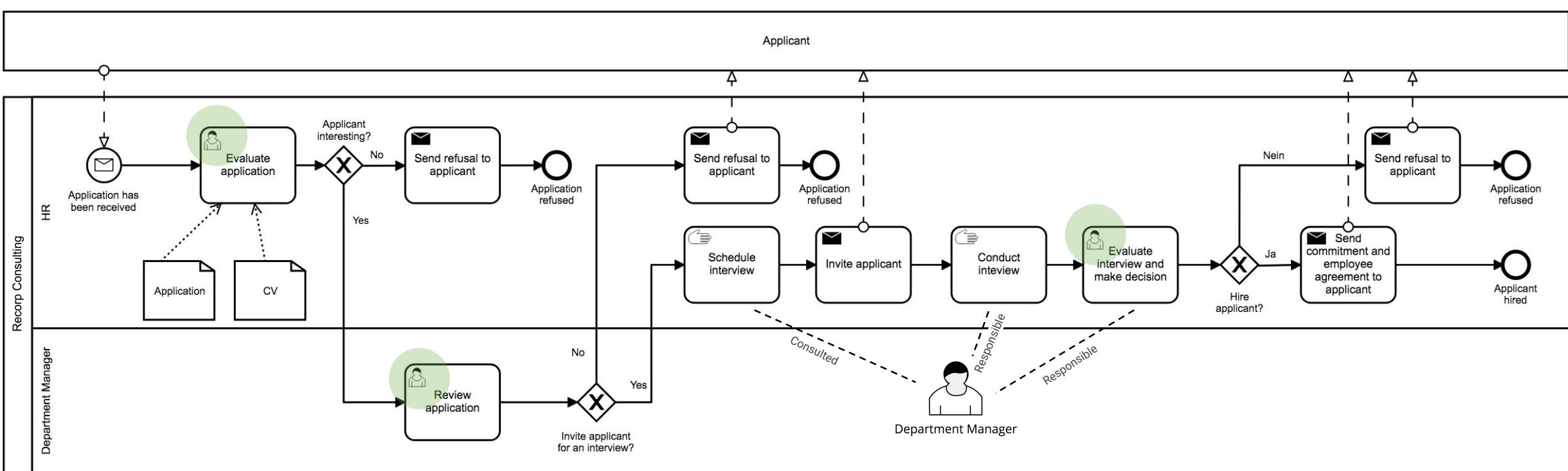






Draft Workflow Requirements

- Public Form



Draft Workflow Requirements

- Public Form
- 3 User Forms

John_doe_application.zip

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Reject

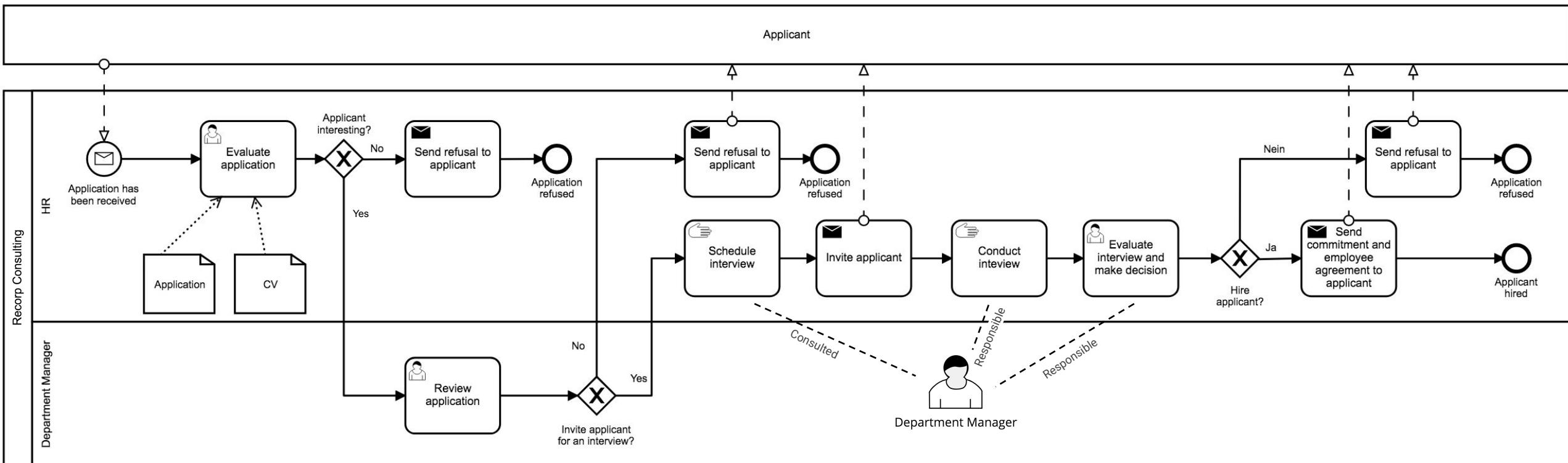
Accept

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Reject

Accept

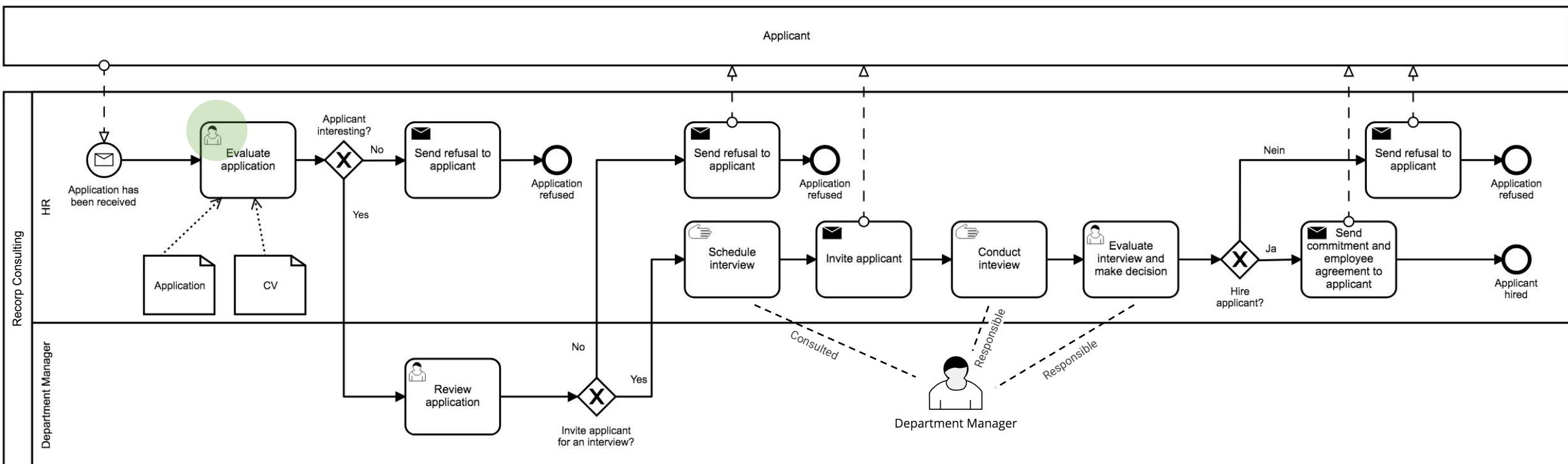


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Reject

Accept

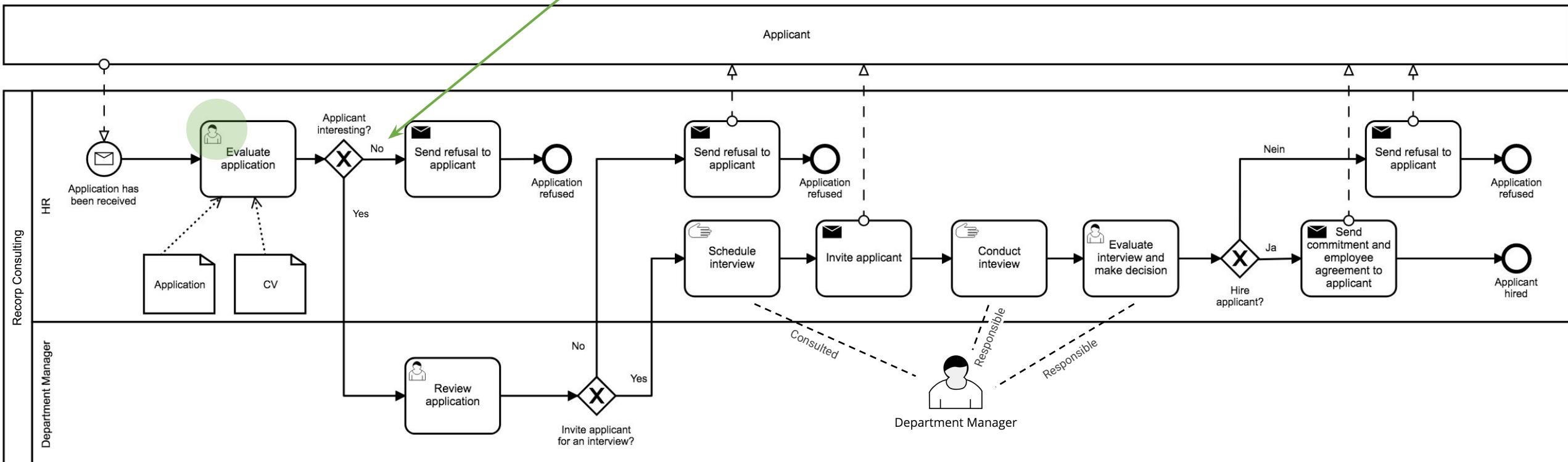


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Accept

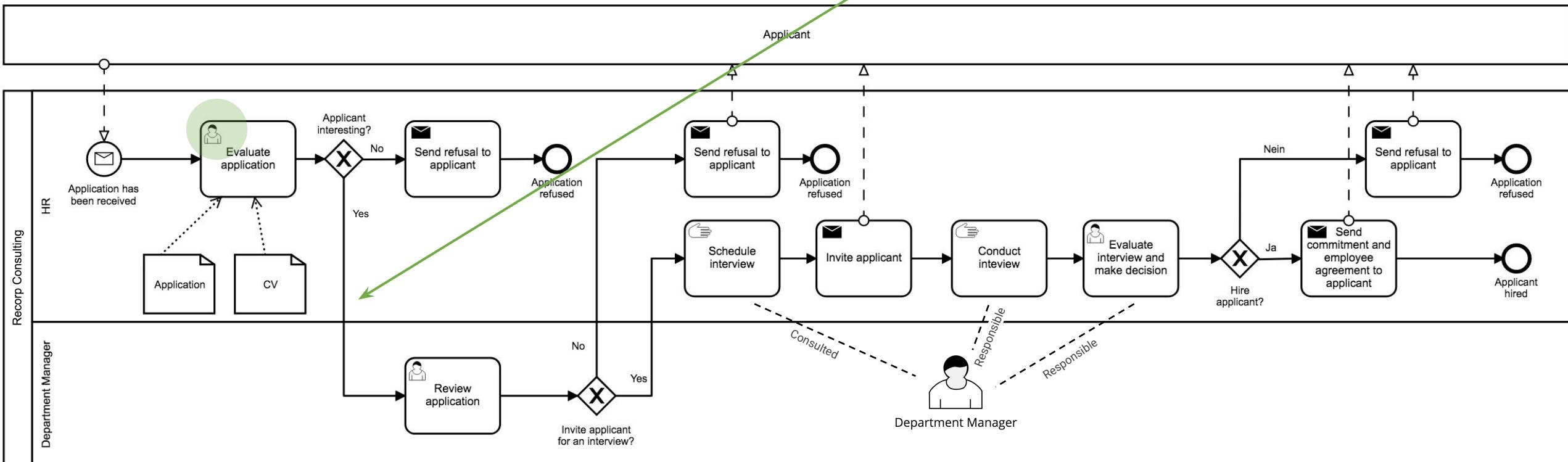


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Reject

Accept



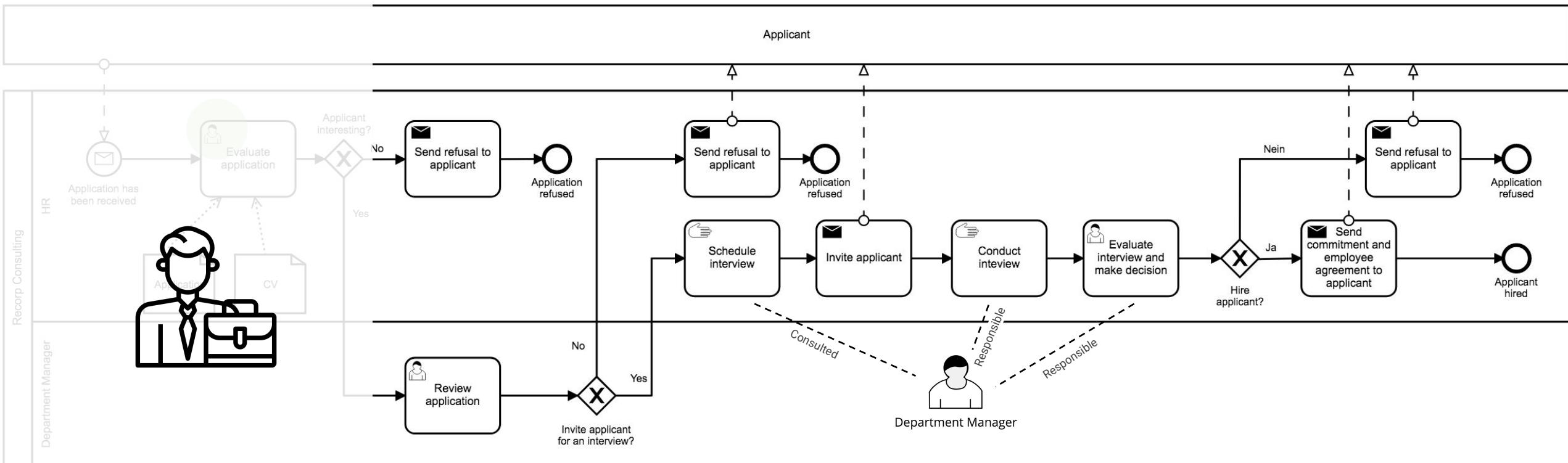


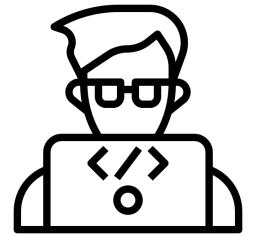
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Reject

Accept



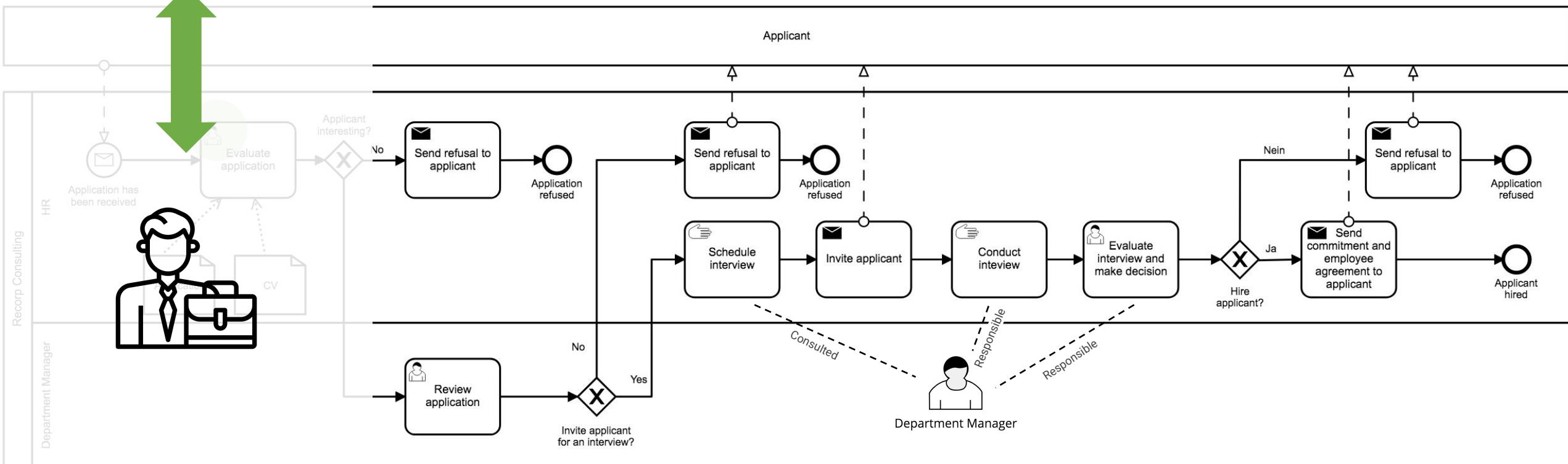


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Reject

Accept

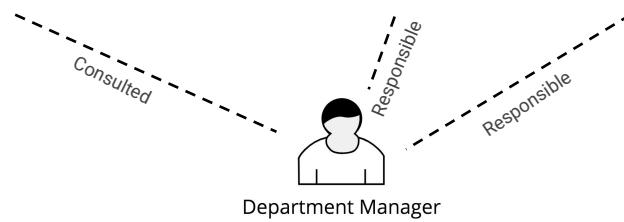


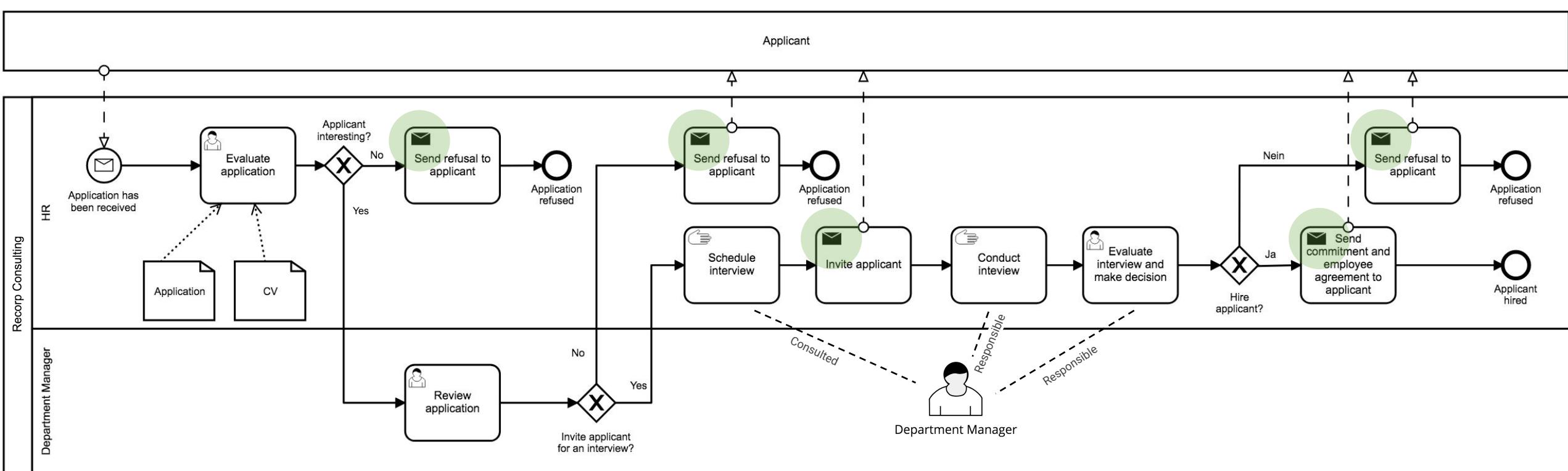


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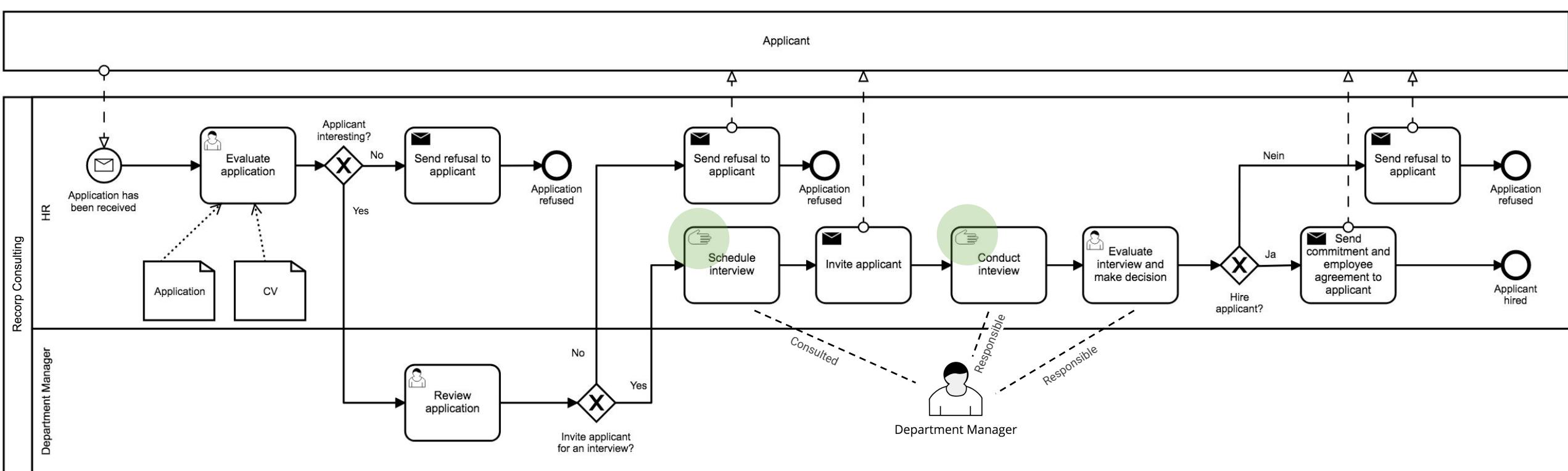
Reject **Accept**





Draft Workflow Requirements

- Public Form
- 3 User Forms
- 4 Automated Emails



Draft Workflow Requirements

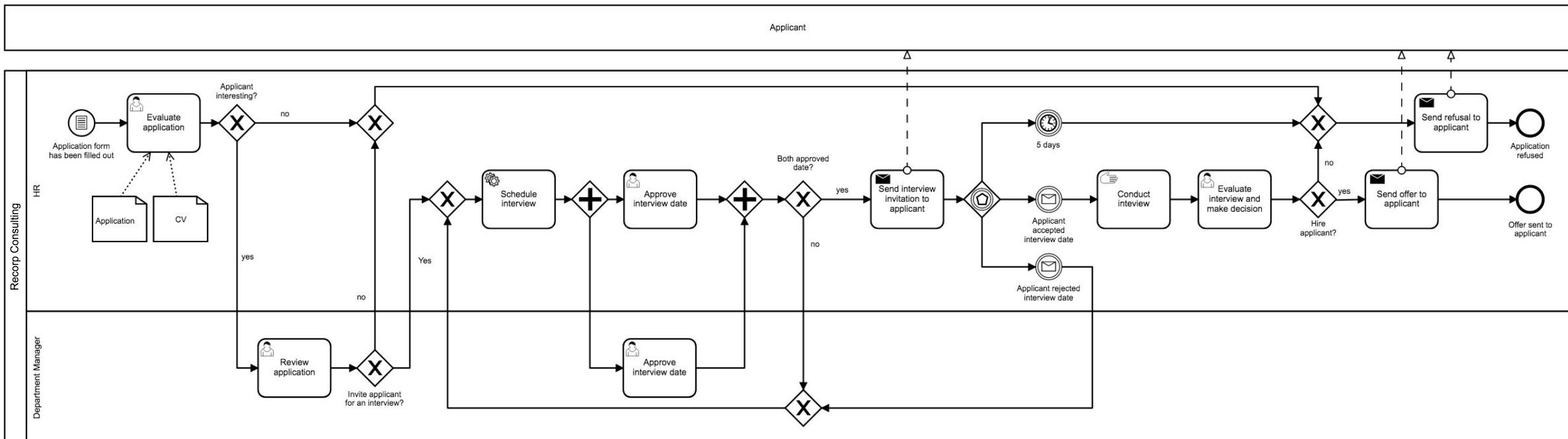
- Public Form
- 3 User Forms
- 4 Automated Emails
- 2 Manual Tasks

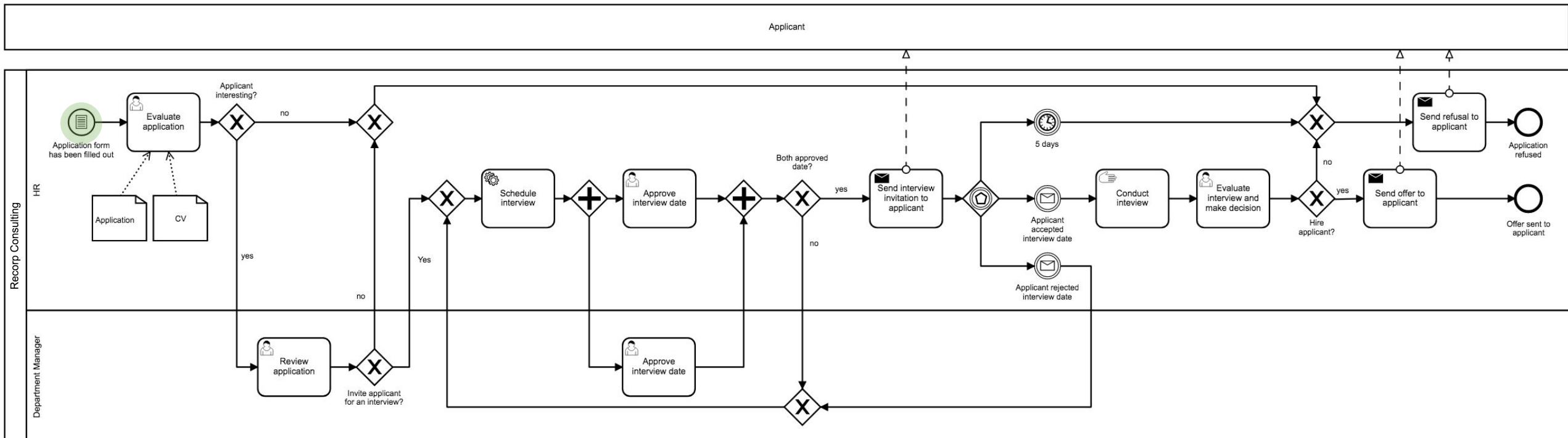


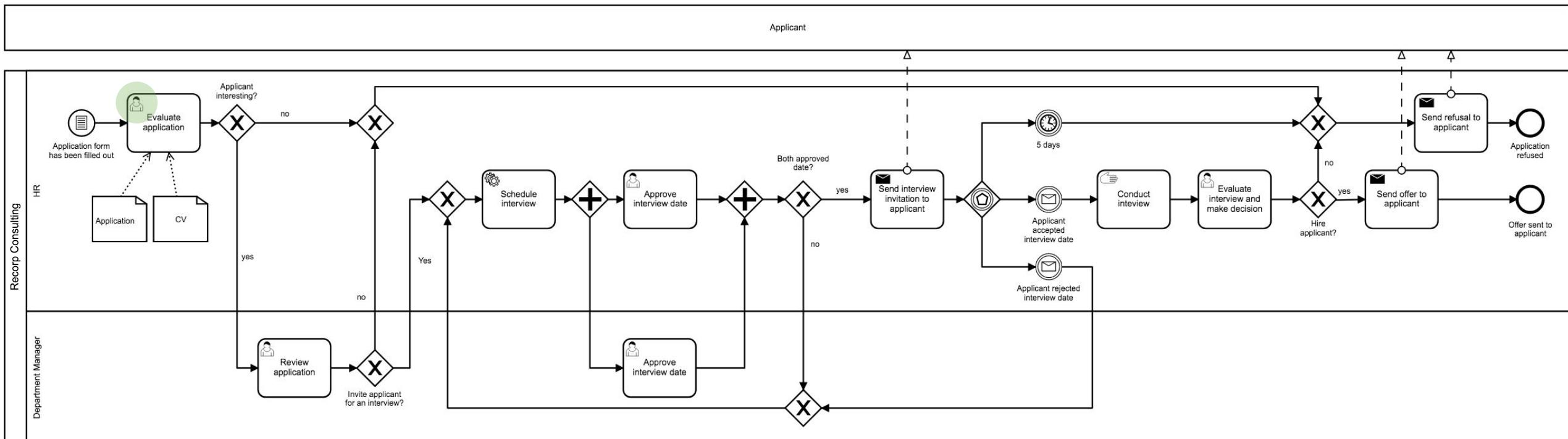
process camp

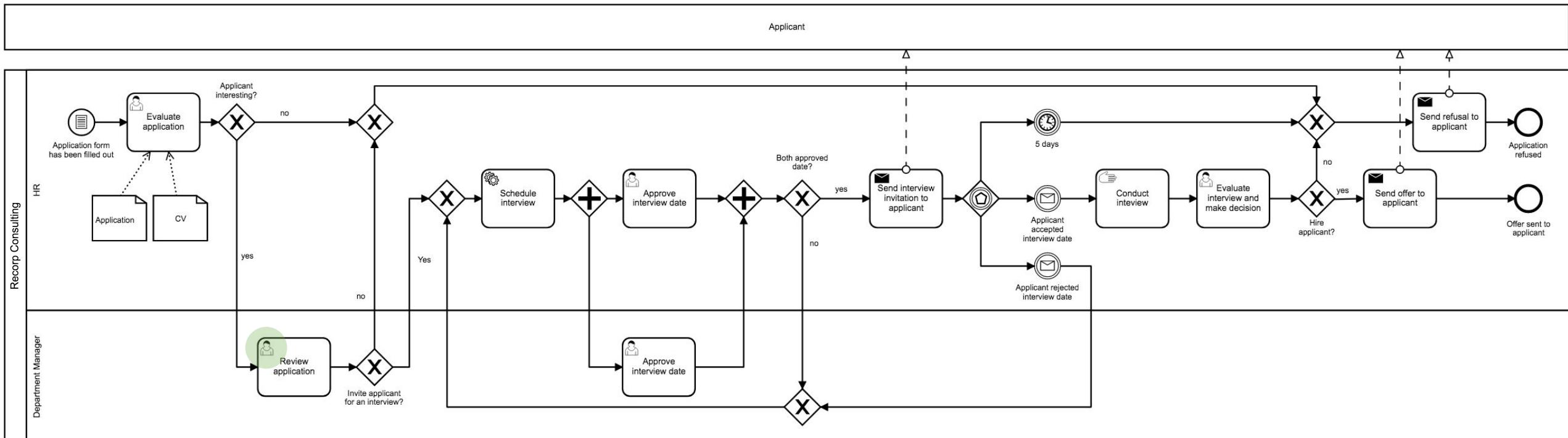


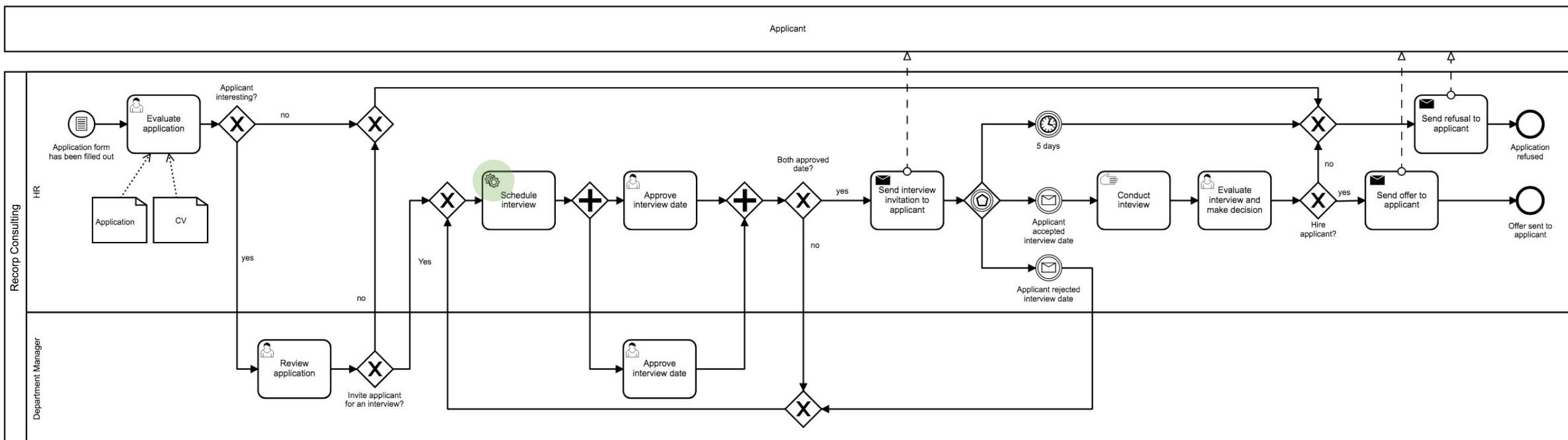
Enhancing the process diagramm to
generate a **Technical Process diagram**

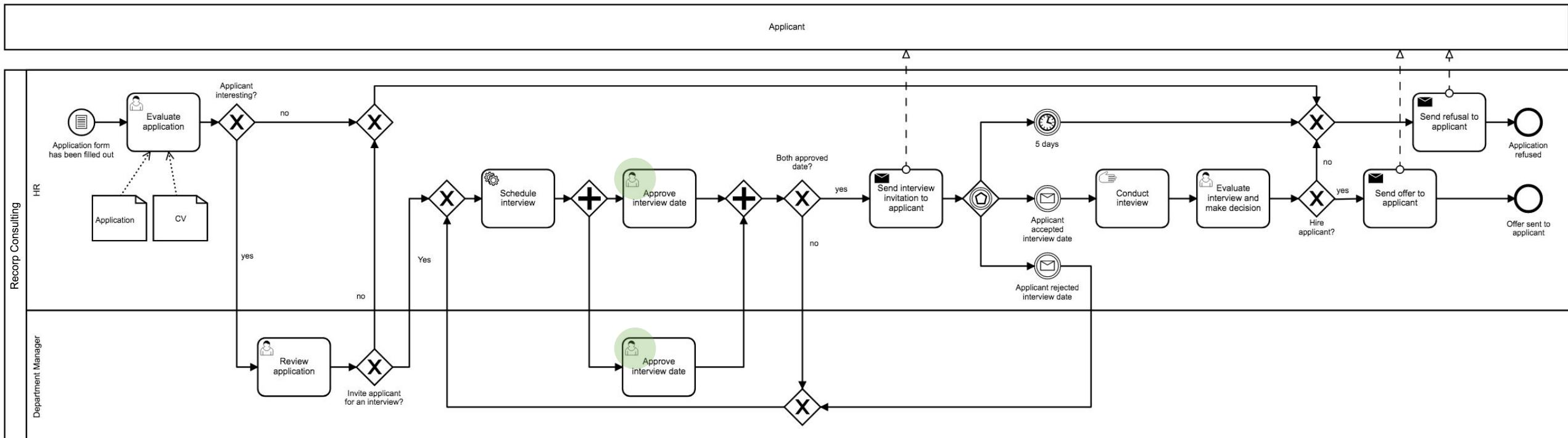


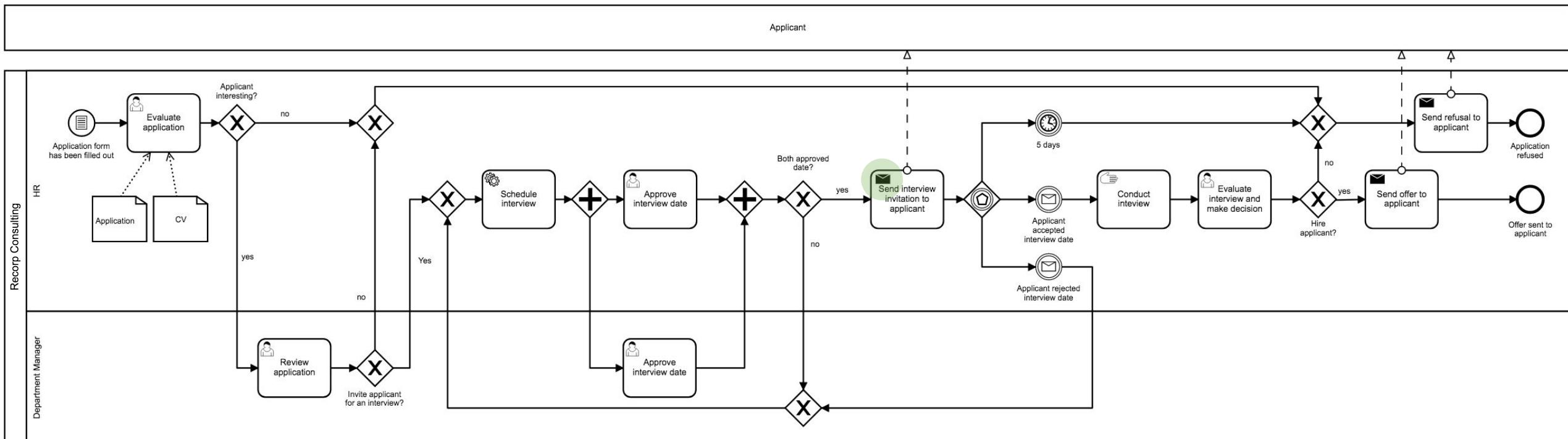


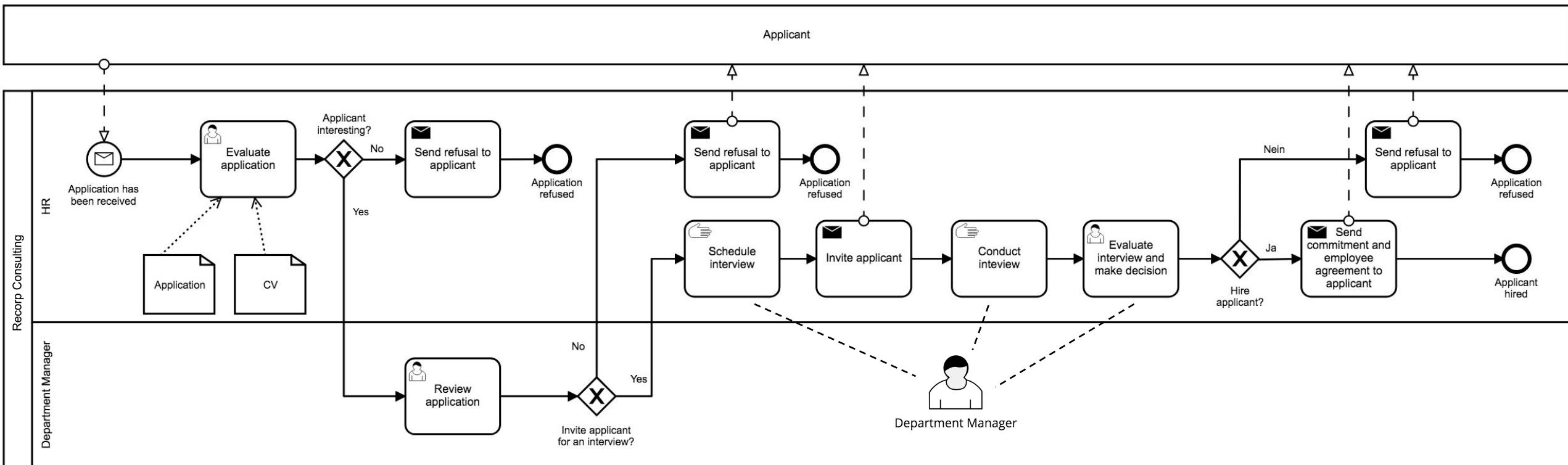


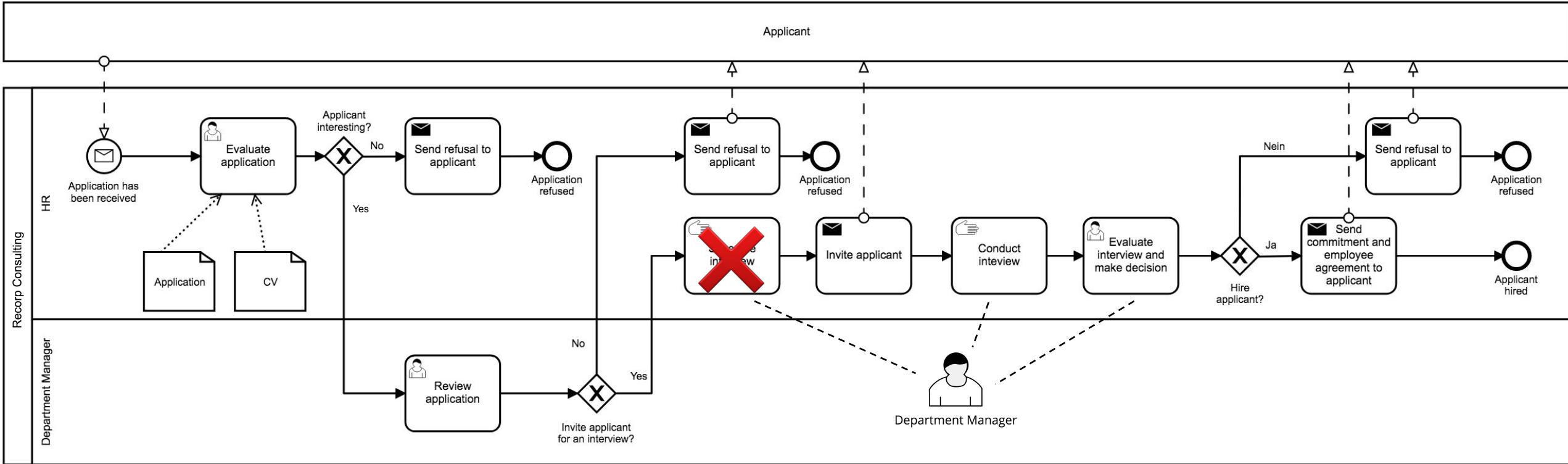


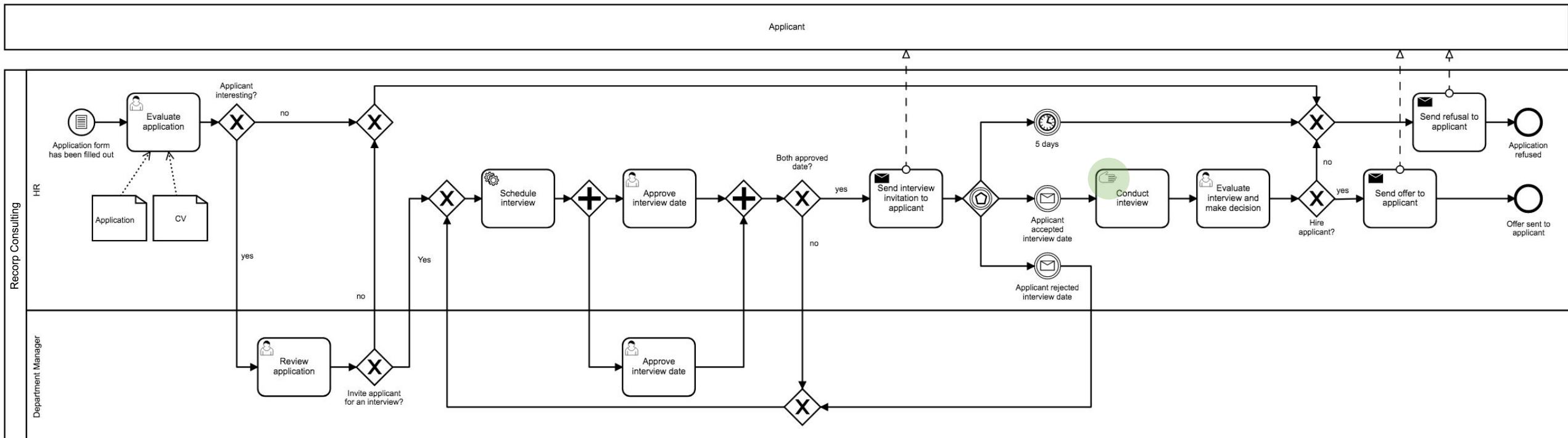


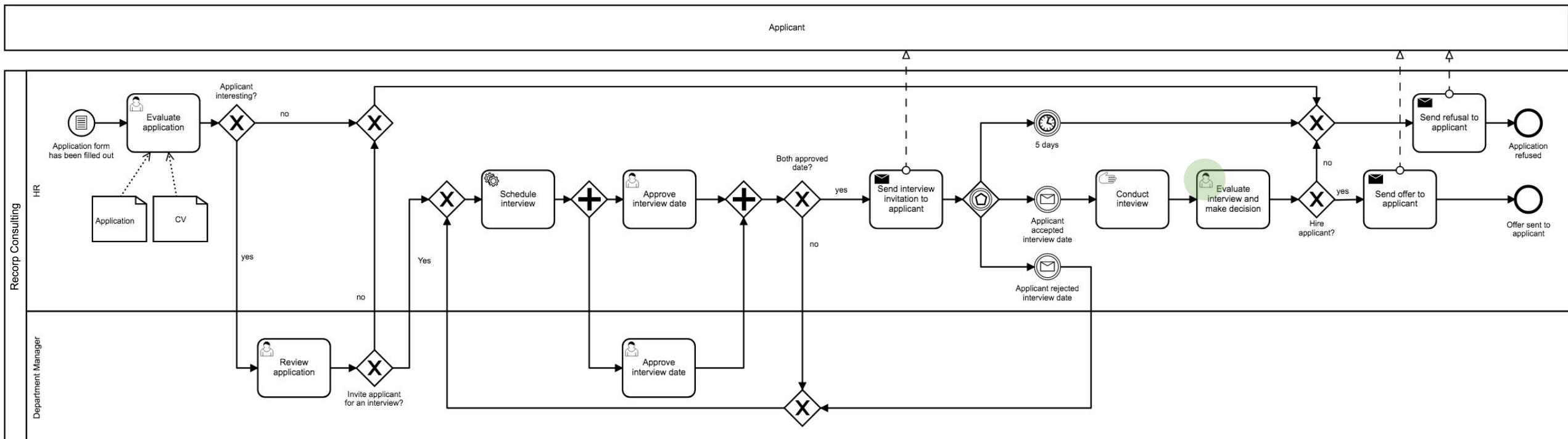


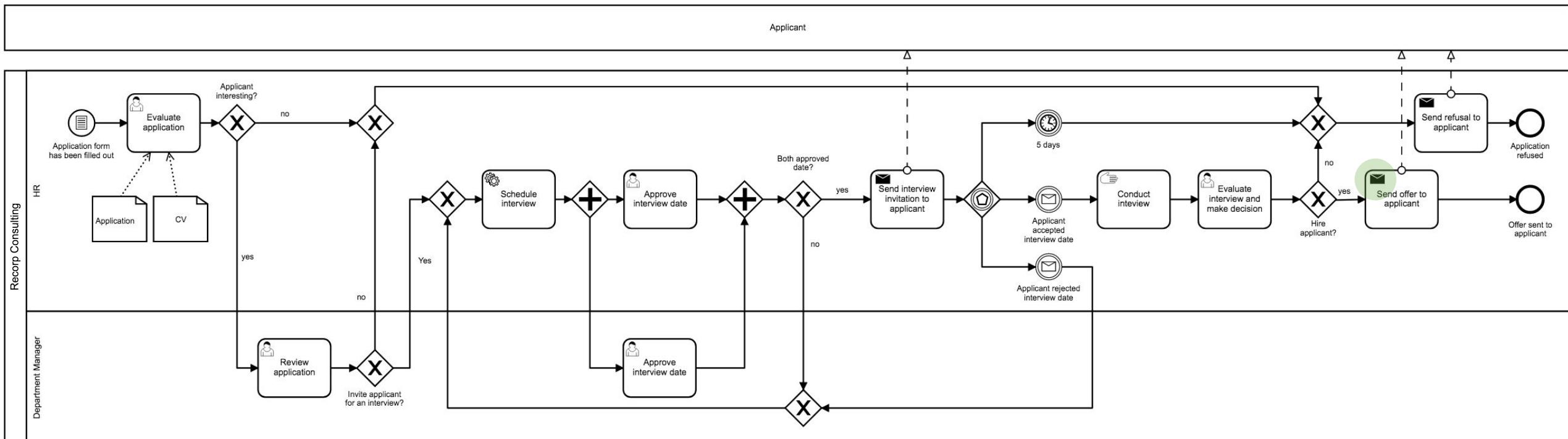


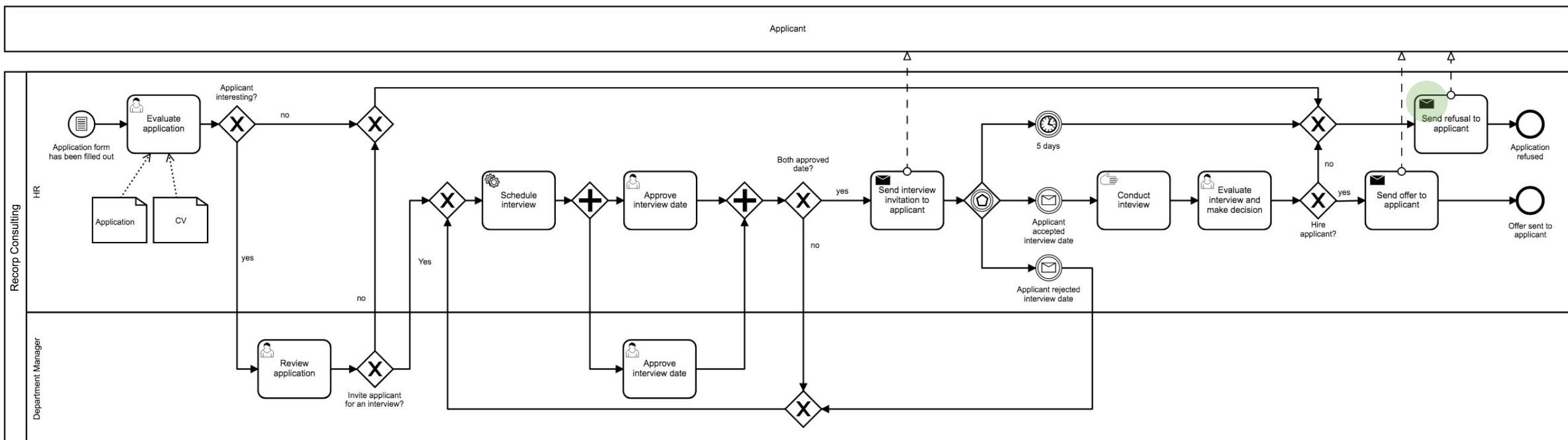


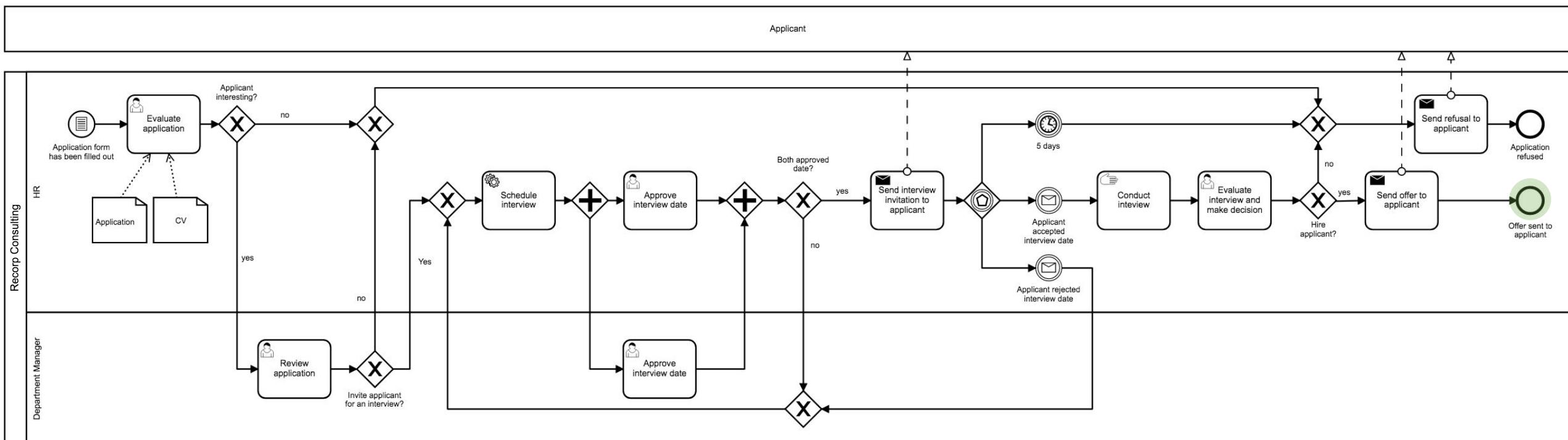


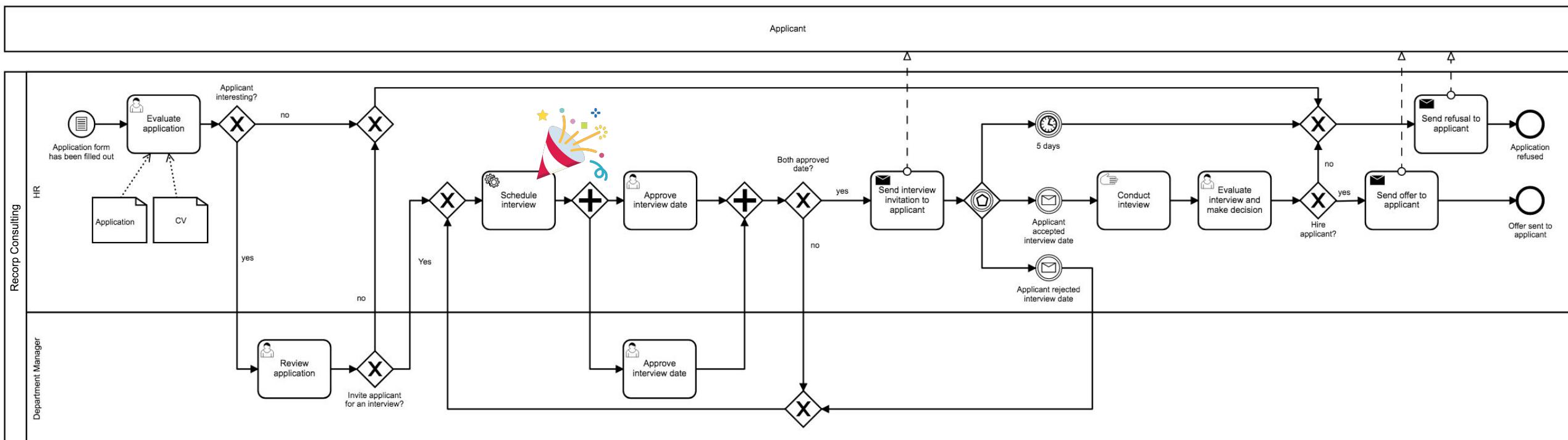














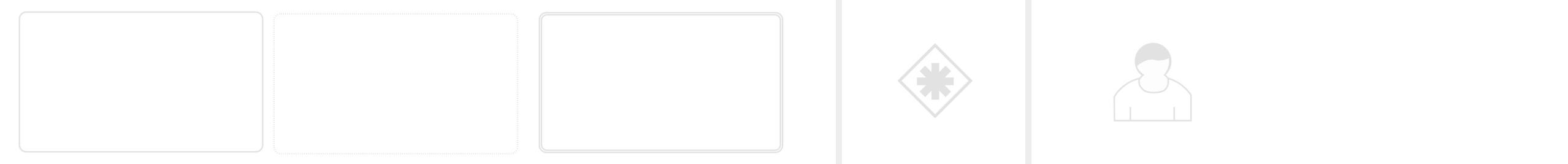
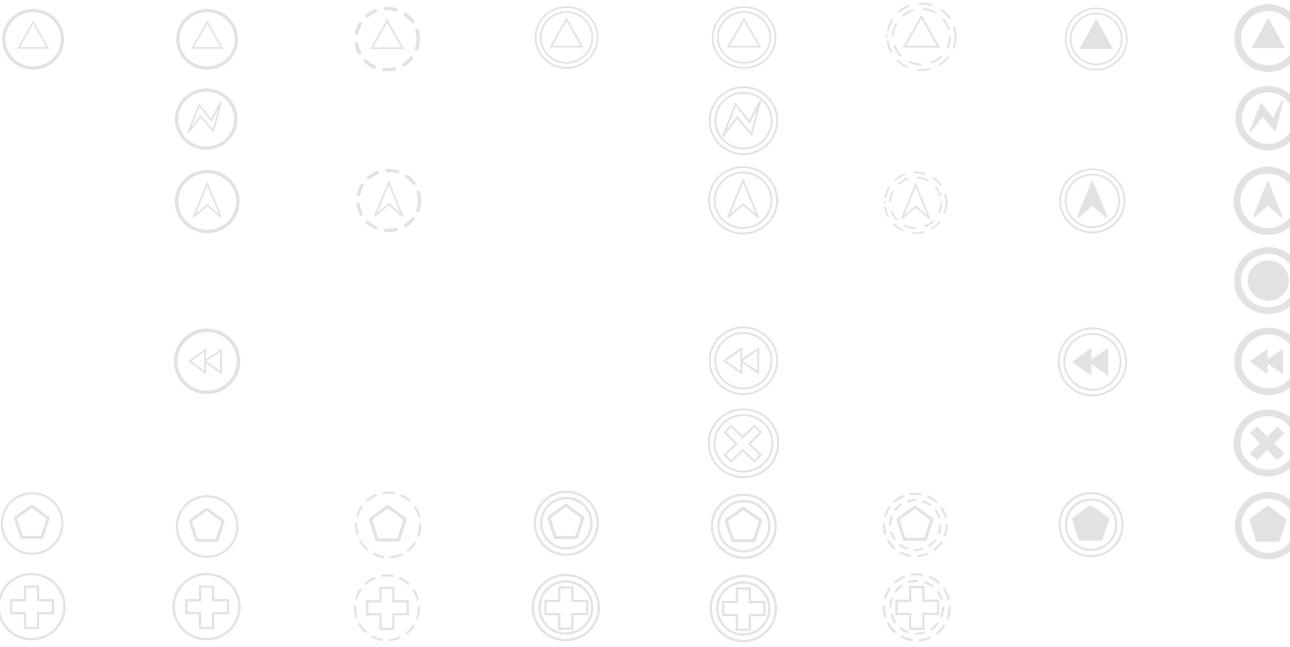
Best Practice Rule:

Task types are useful to define engineering requirements. For non technical processes the blank tasks are usually sufficient

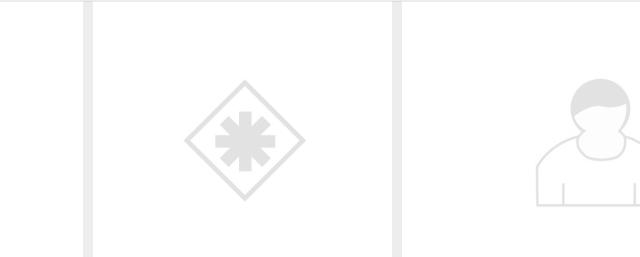
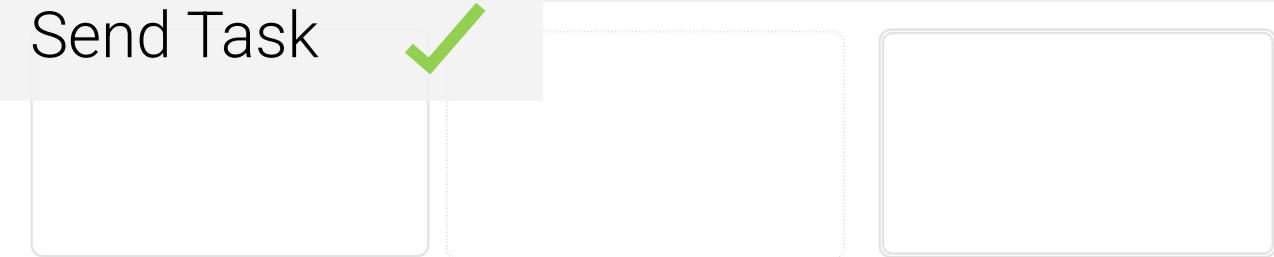
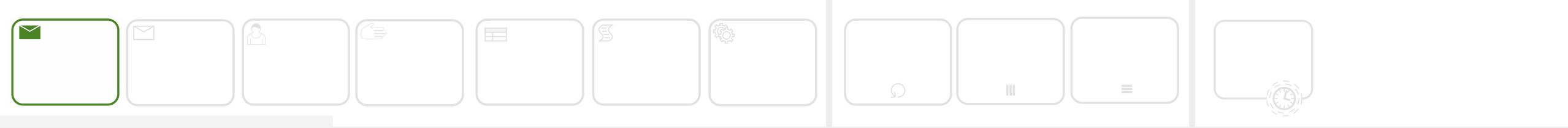
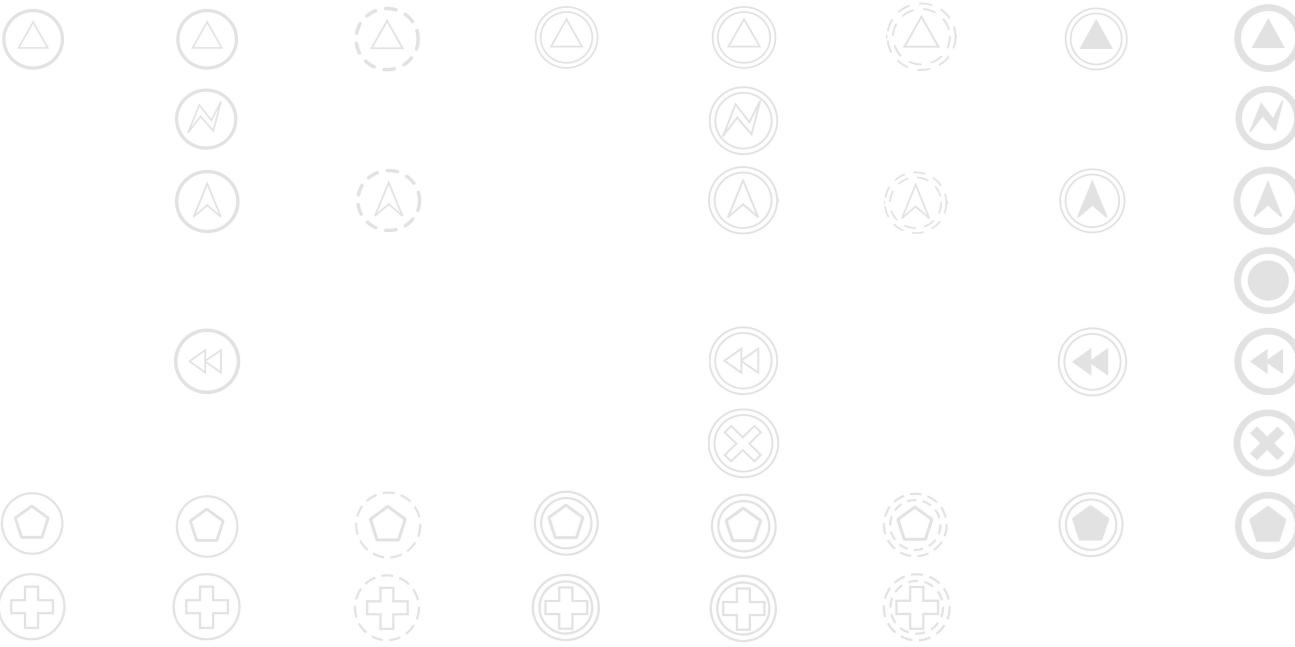


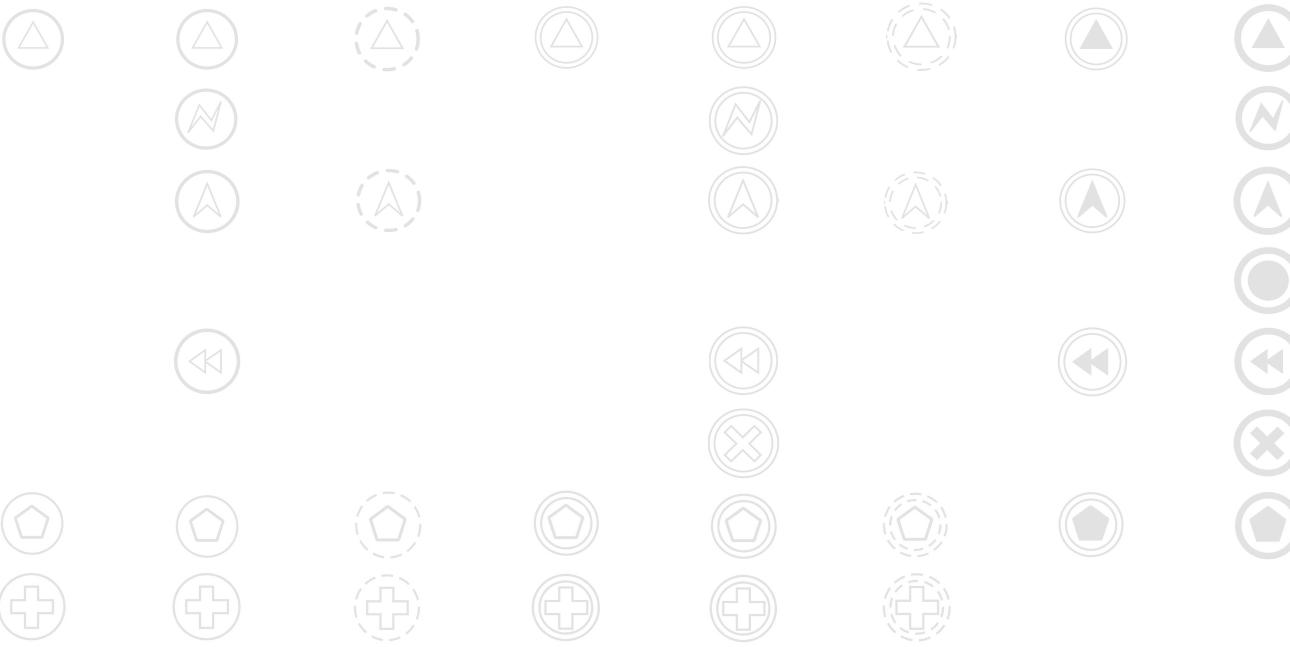
Congratulations!

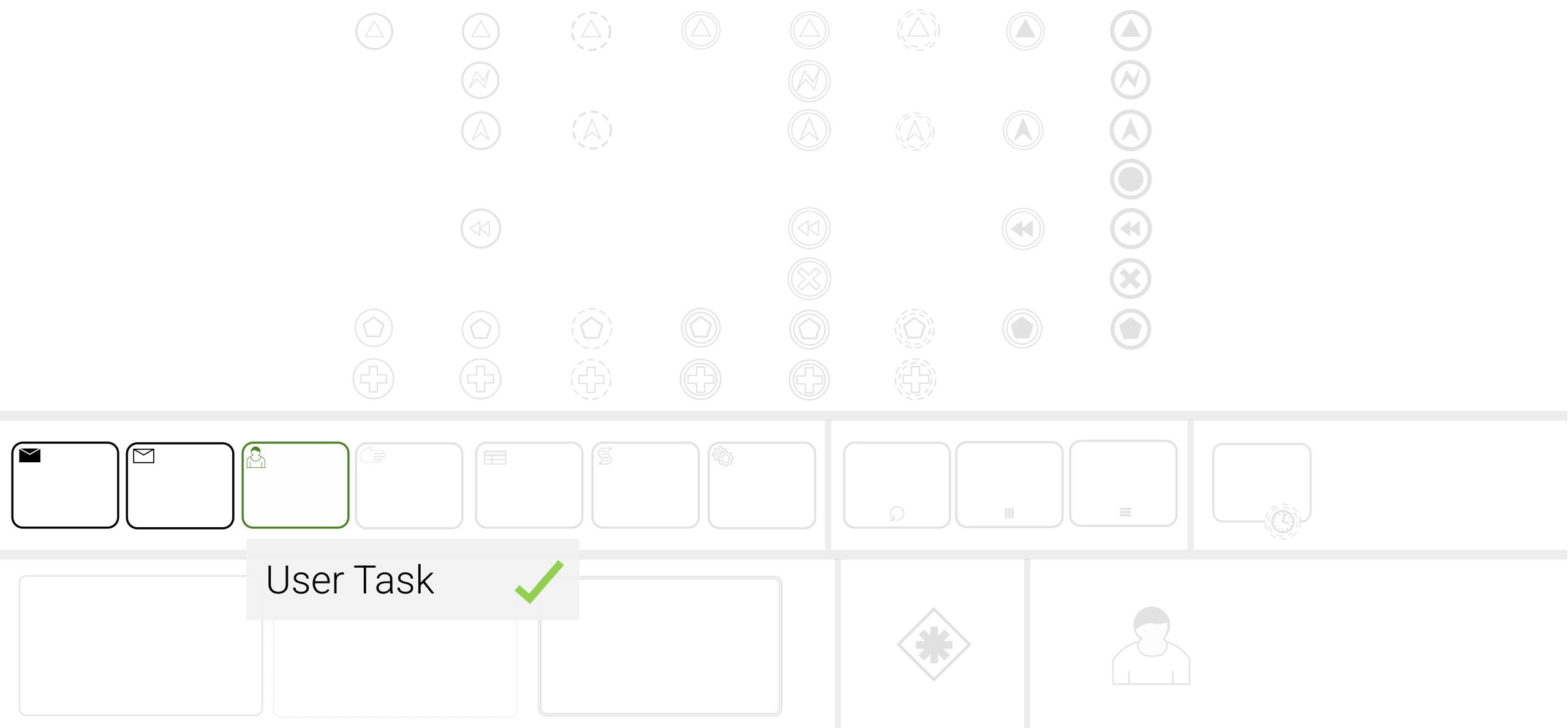
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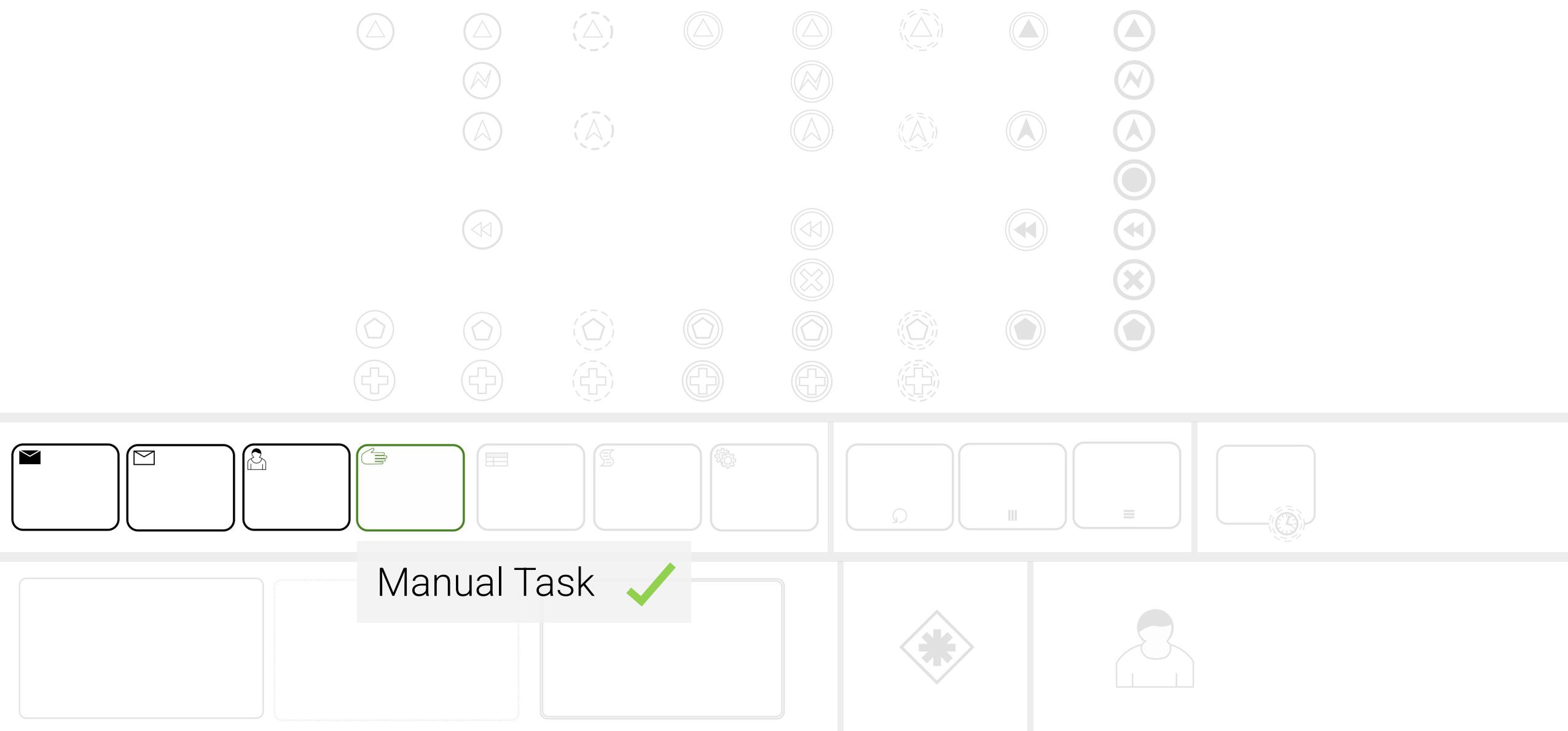


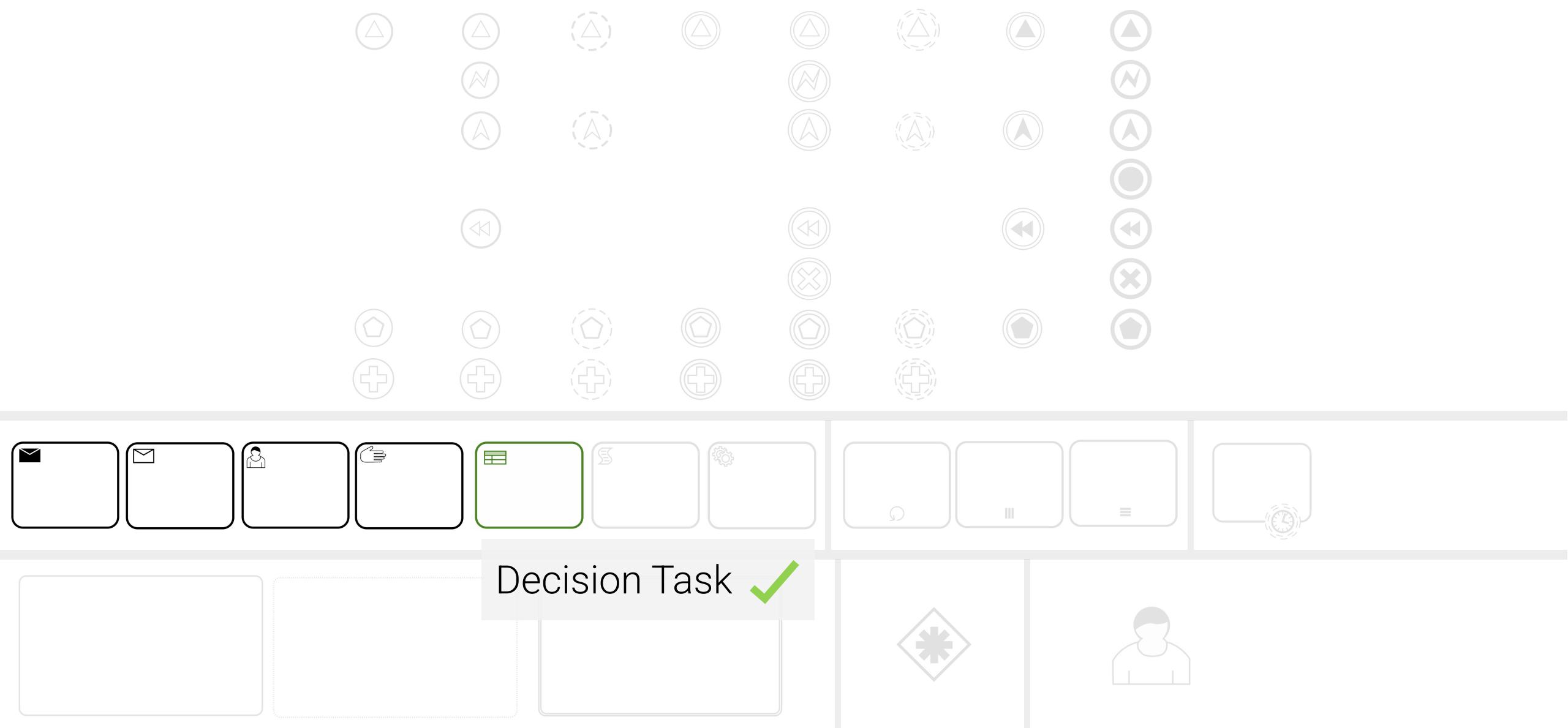
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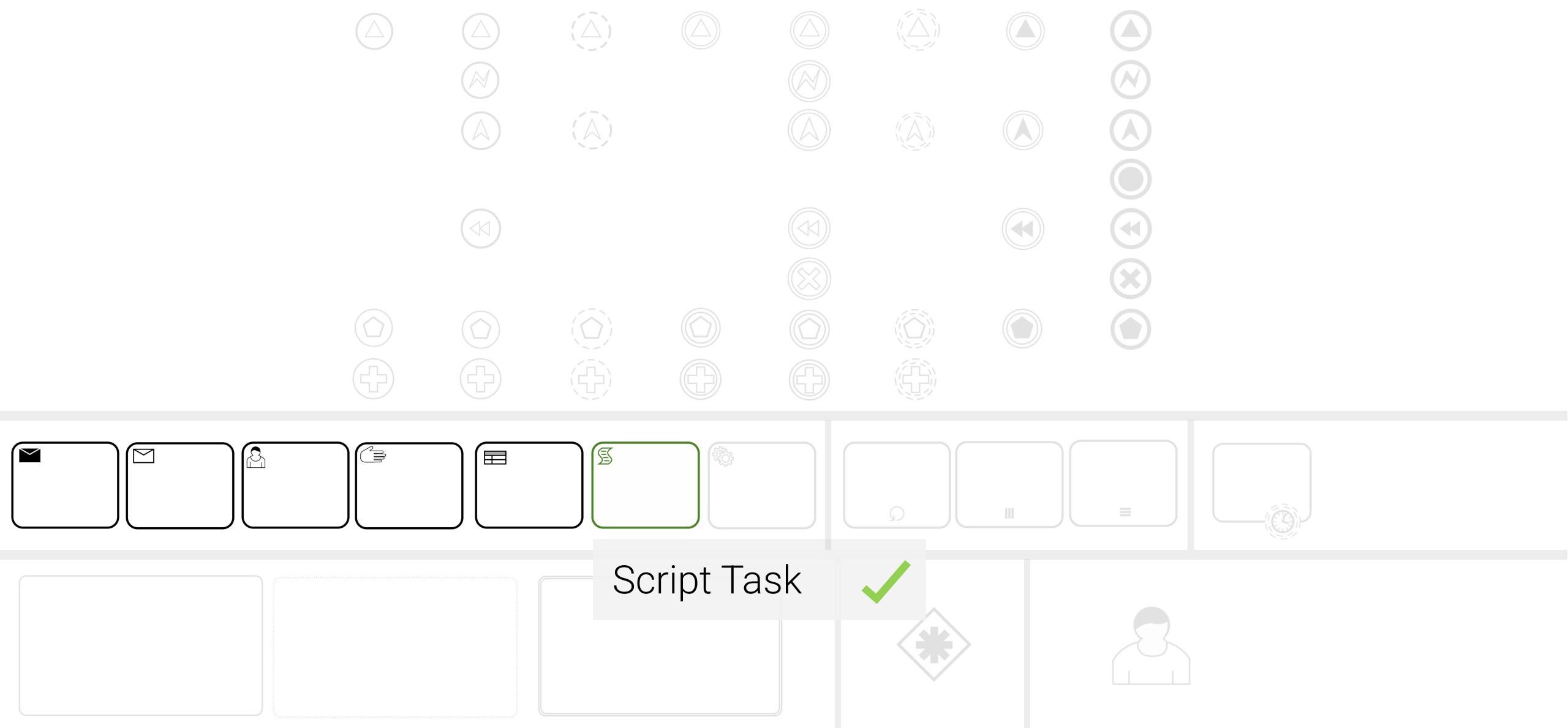


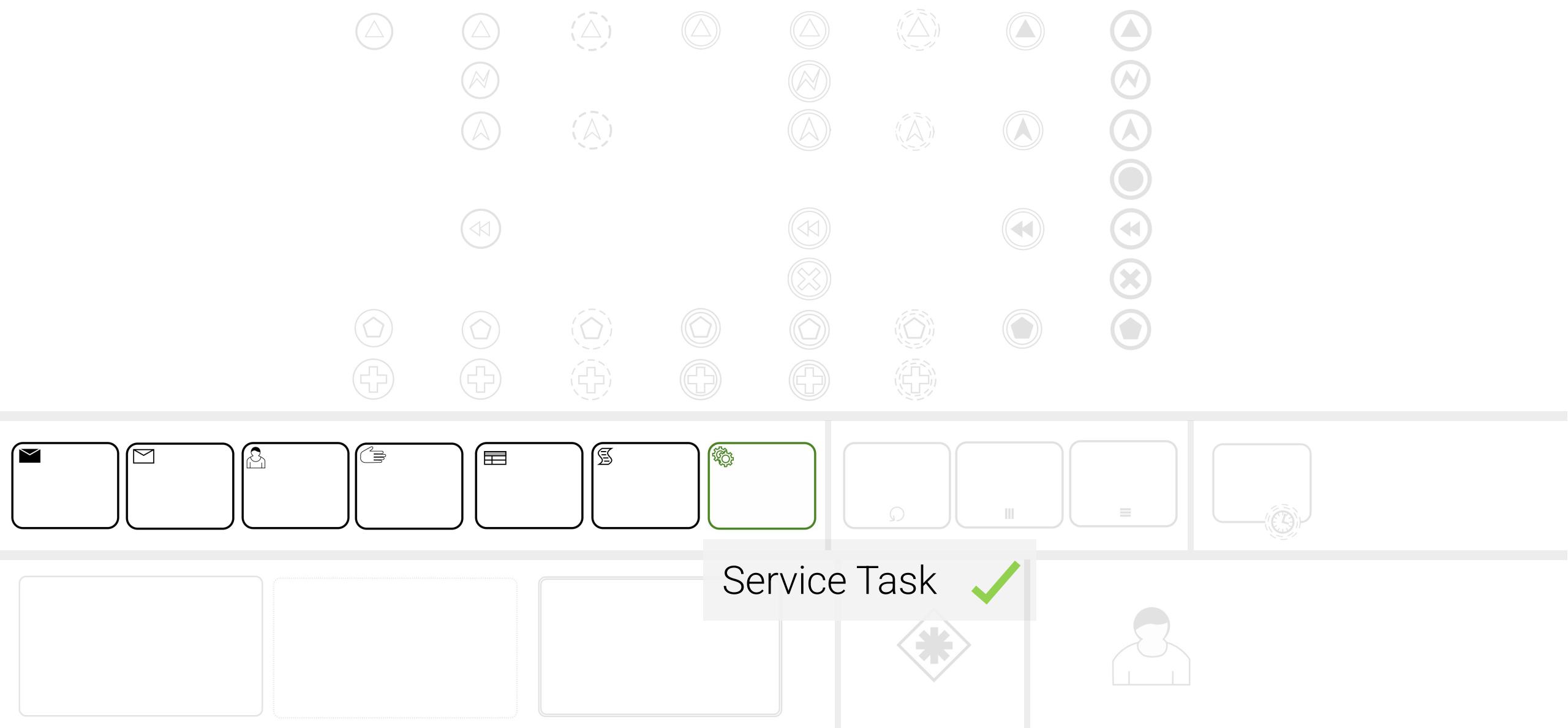




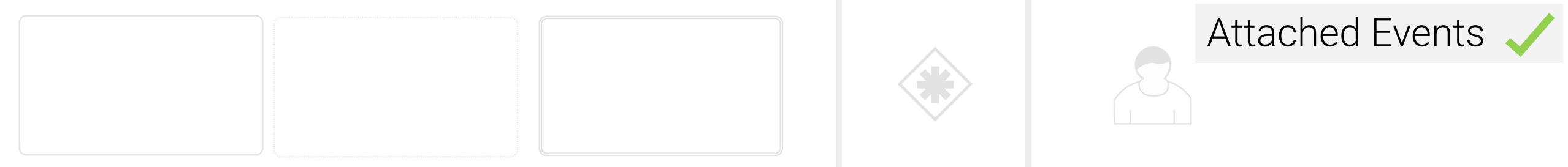
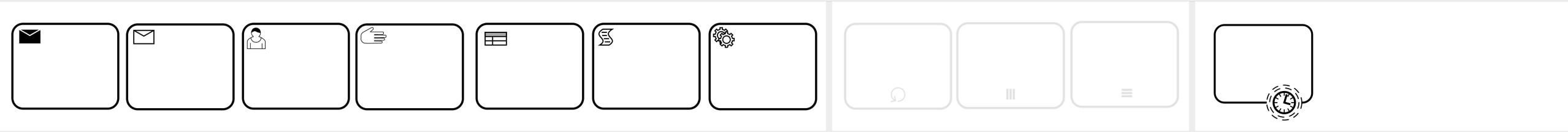
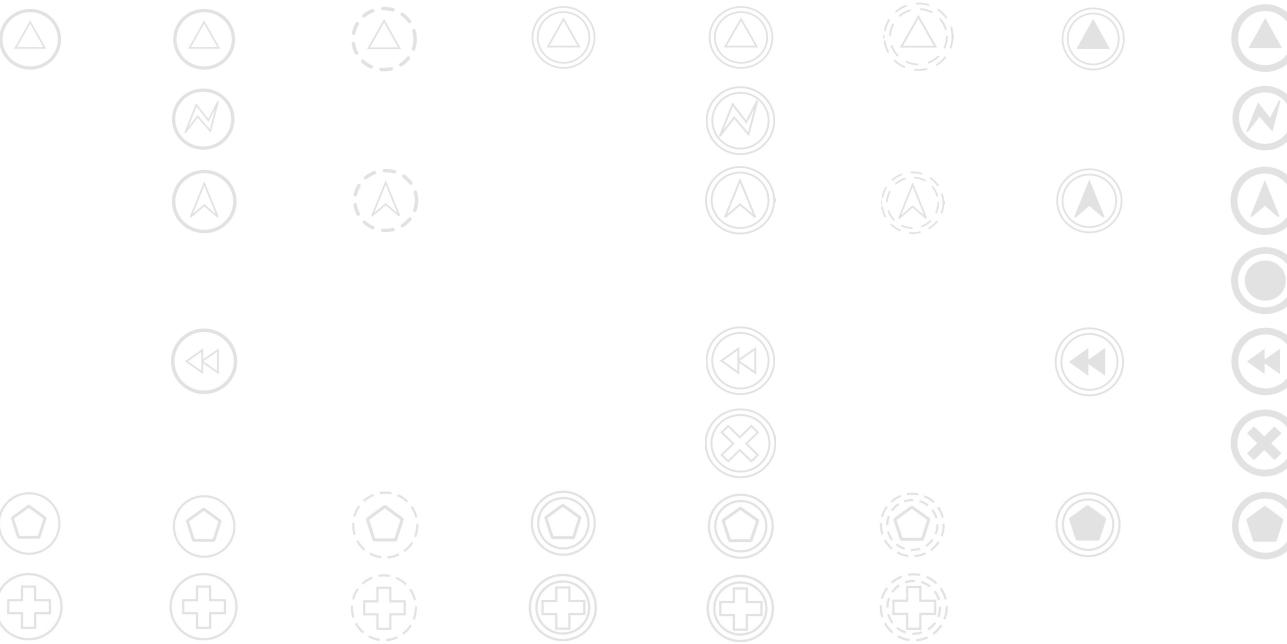




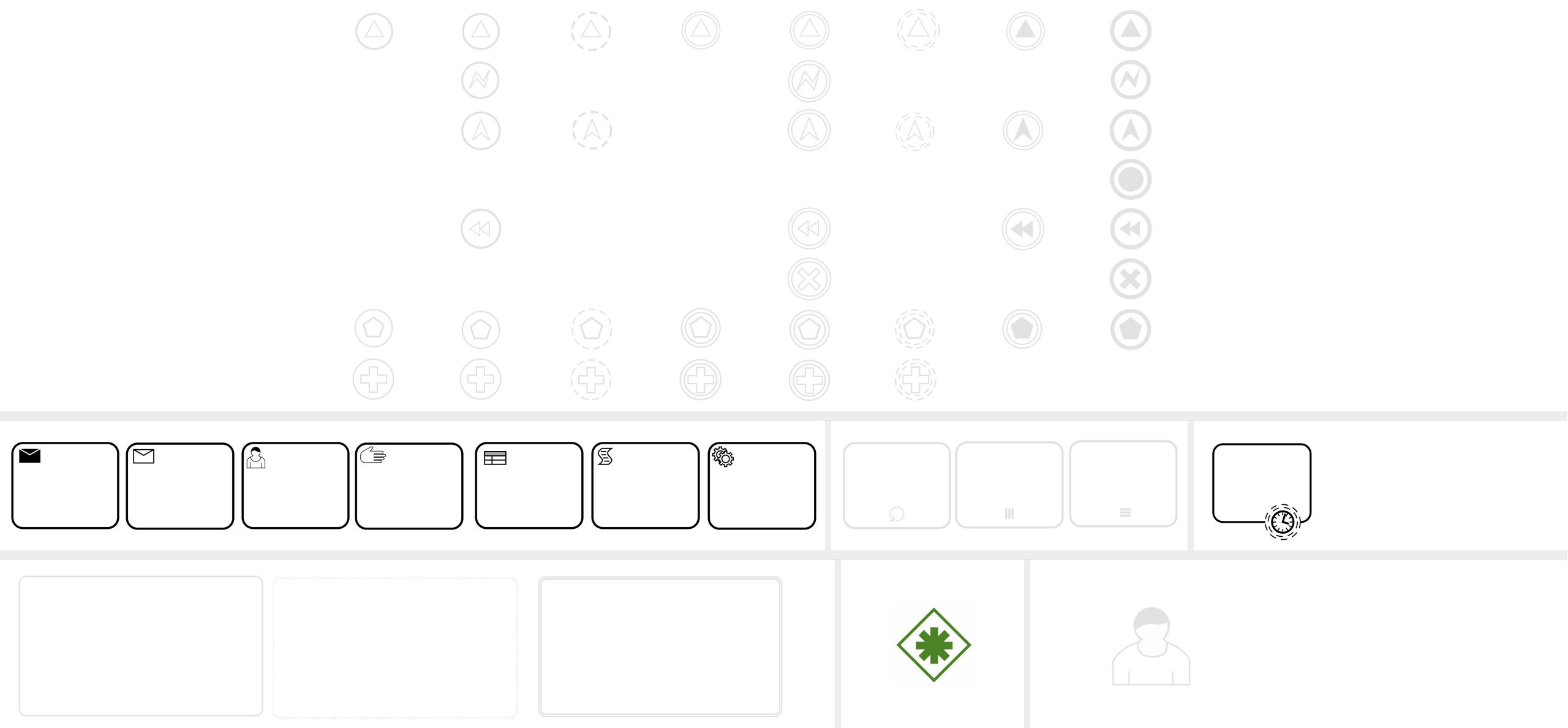




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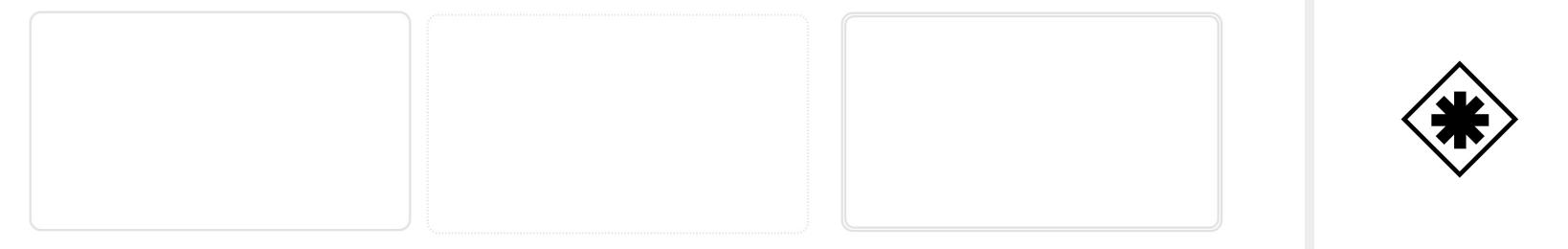
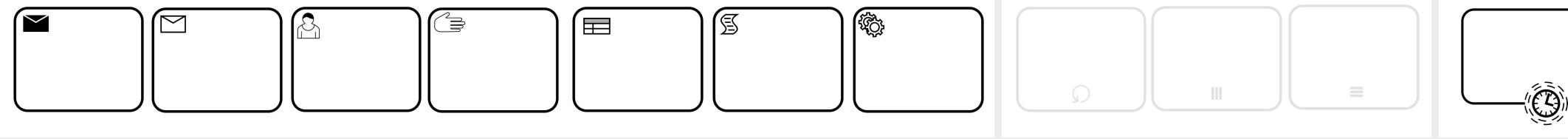
Attached Events



Complex Gateway



process camp



Additional Participant

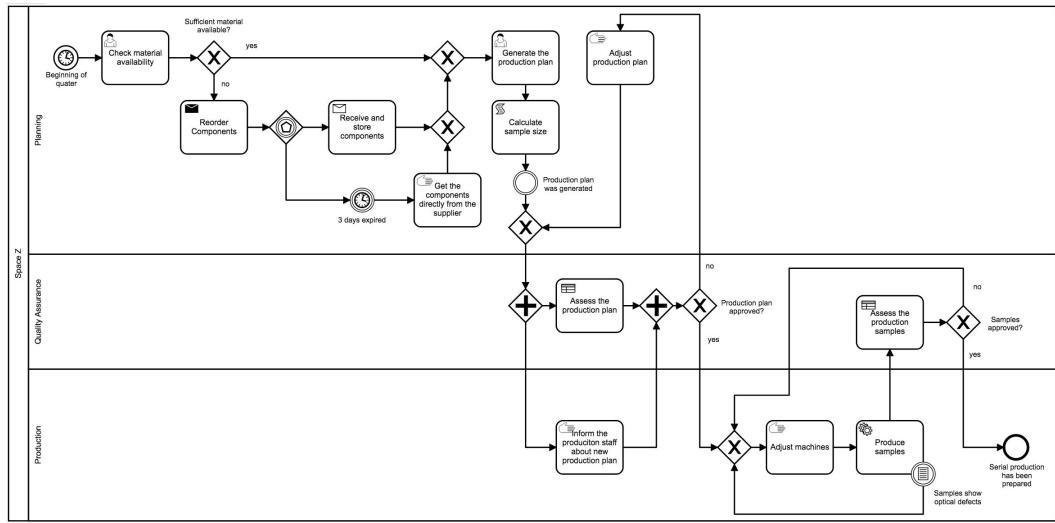
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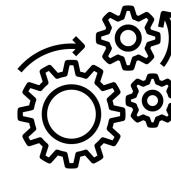
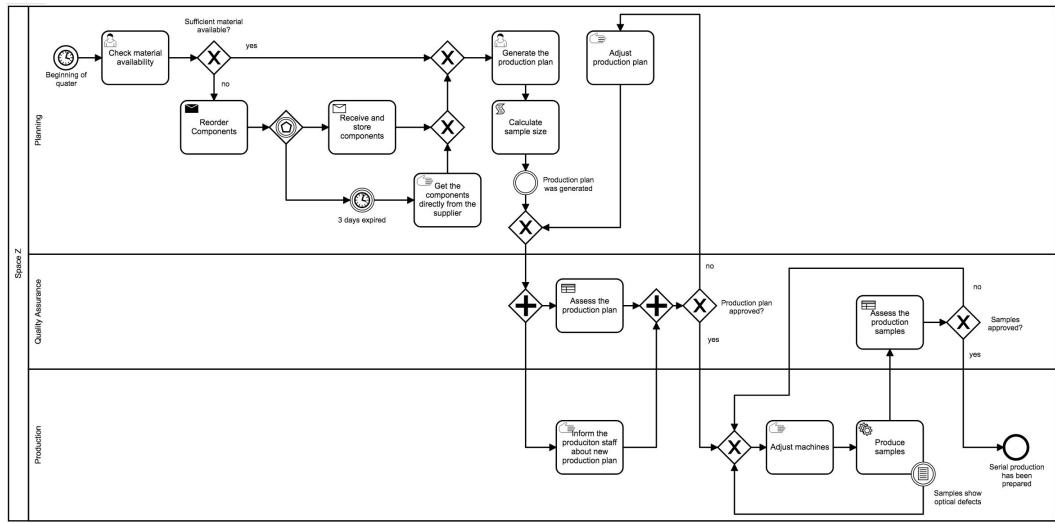
Workflow

process camp

Workflow

The automation of a business process

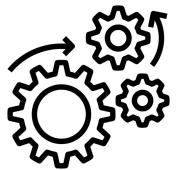
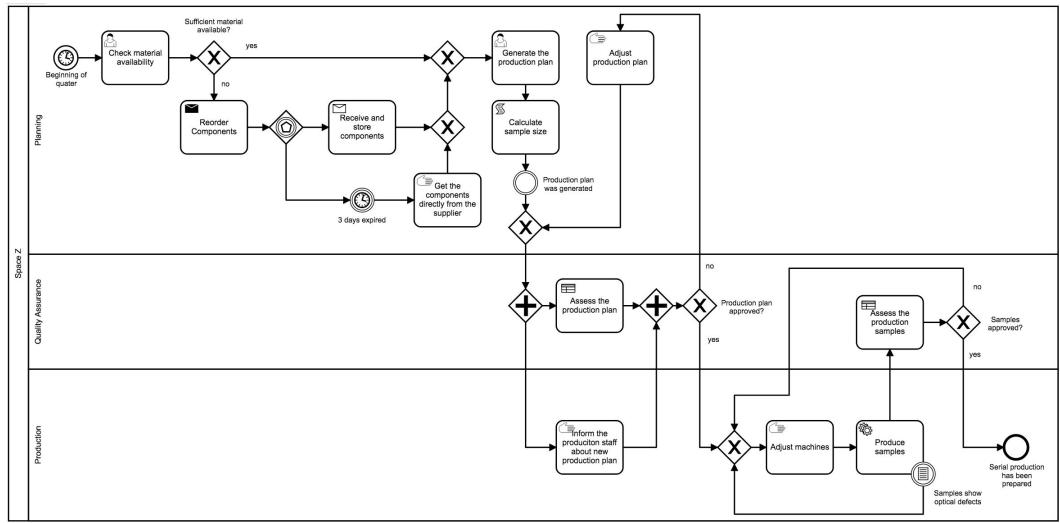




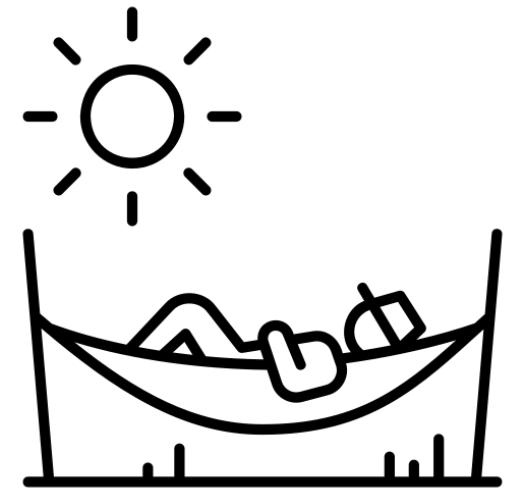
Workflow Engine



process camp



Workflow Engine



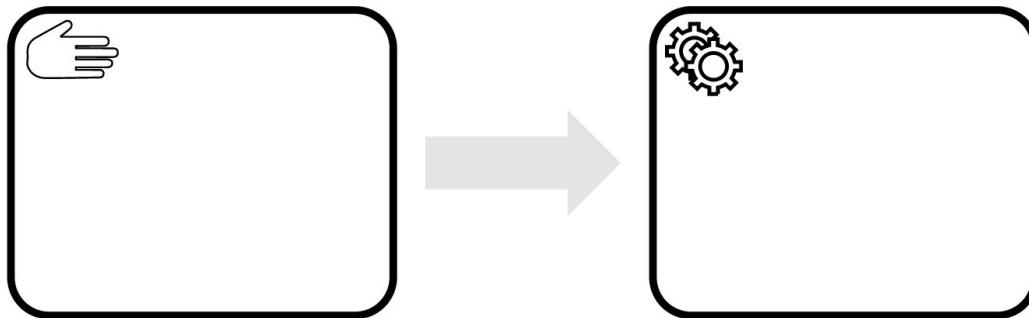
process camp



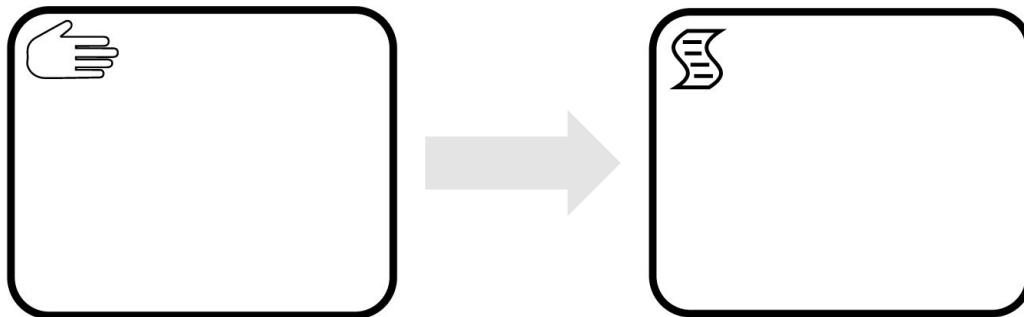
process camp

In the As-Is Process watch for

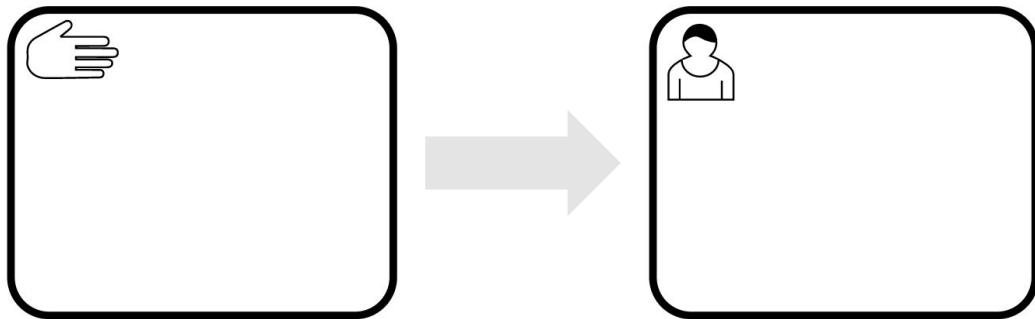
In the As-Is Process watch for



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process camp



process camp

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