



Business **P**rocess **M**odel **N**otation



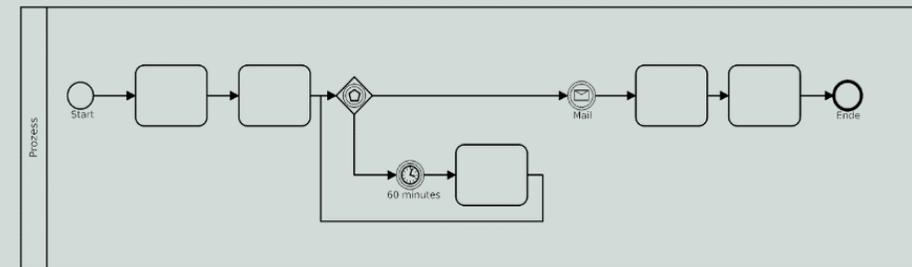
Gliederung

- Einführung zu BPMN
- Notationen
- Beispiele



Was ist BPMN?

- Business Process Model and Notation
- Modellierungsmethode zur Darstellung von **Geschäftsprozessen**
- Abfolge von Geschäftsaktivitäten und Informationsflüssen



BPMN 2.0
Business Process Model and Notation

Warum überhaupt BPMN?

- Ziel war es, die verschiedenen Darstellungsformen zu vereinheitlichen.
- gemeinsame Verwendung von Aktivitätsprozessen über Unternehmen hinweg einfacher
- Primär: Verbesserung der Effizienz, der Reaktion auf neue Umstände oder dem Verschaffen von Wettbewerbsvorteilen
- Diagramm leichter zu verstehen als ein Text
 - natürlichere Kommunikation und Zusammenarbeit zwischen Geschäftspartnern
- Potential: Lücke zwischen Organisation und IT schließen

BPMN im Laufe der Zeit

- 2001: BPMN 0.9
 - von IBM-Mitarbeiter Steven White konzipiert und entwickelt
- 2004: BPMN 1.0
 - von Business Process Management Initiative (BPMI) veröffentlicht
- 2005: BPMN 1.0
 - von Objekt Management Group (OMG) übernommen
- 2008: BPMN 1.1
- 2009: BPMN 1.2
- 2011: BPMN 2.0
 - vorher „Business Process Modeling Notation“, dann „Business Process Model and Notation“
 - seit Dezember 2013 ISO Standard (ISO/IEC 19510:2013)

Vergleich BPMN - UML

BPMN gilt als Gegenstück zur UML, die in der Softwareentwicklung zum Einsatz kommt

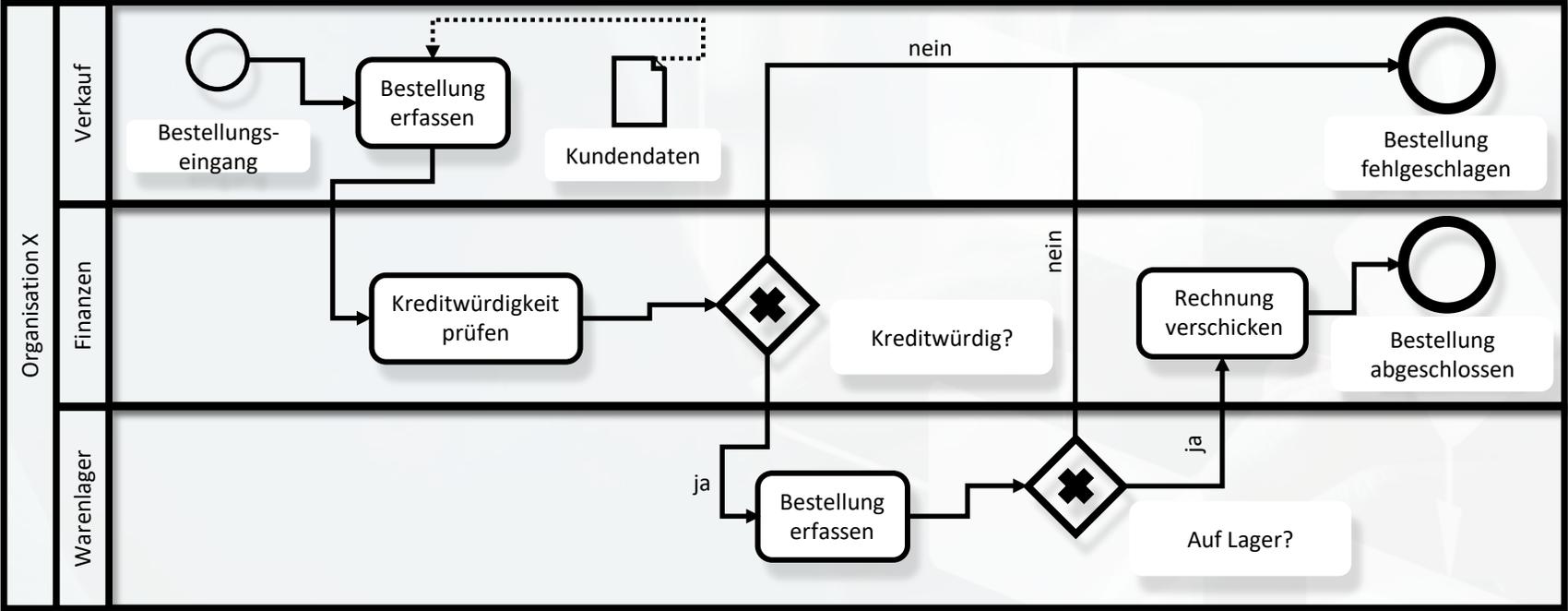
BPMN

- Prozessorientiert
- Geschäftsprozesse
- Primäres Ziel: einfach verständliche Notation für alle Nutzer

UML

- Objektorientiert
- Softwareentwicklung
- Primäres Ziel: Modellieren von Softwaresystemen

Notation



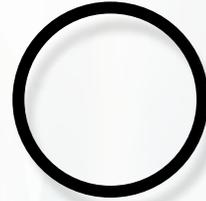
Ereignisse



Startereignis



Zwischenereignis



Endereignis



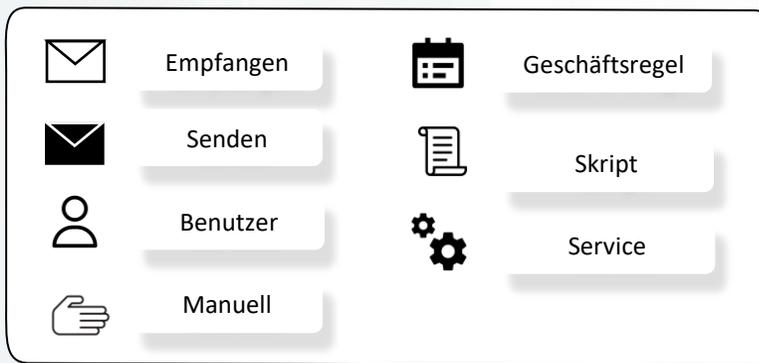
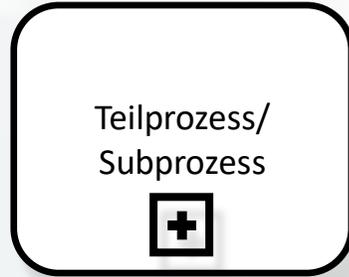
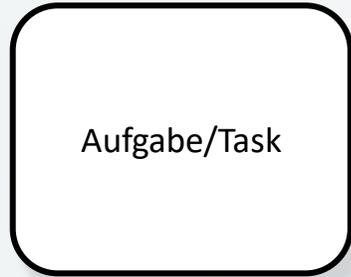
eintretendes
Zwischenereignis



auslösendes
Zwischenereignis



Aktivitäten

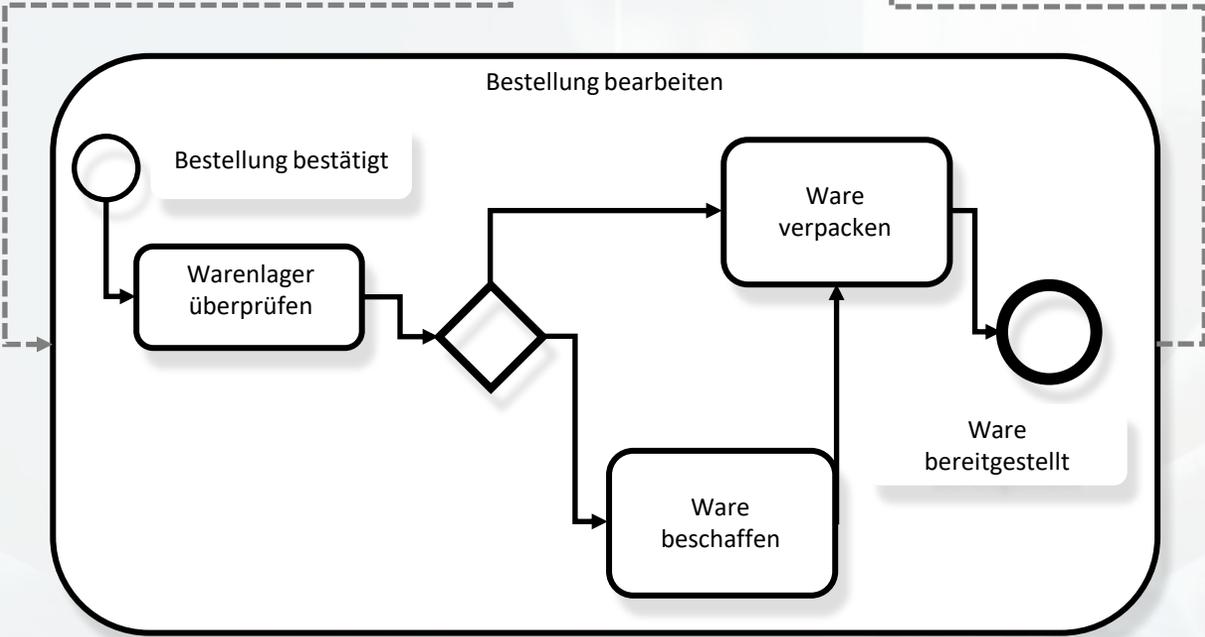


Aufgabe / Task : eine einzelne, nicht weiter unterteilbare Arbeitseinheit

Teilprozess: enthalten eigene detaillierte Abläufe

Aufrufaktivität: wird einmal global definiert und können dann in mehreren Prozessen aufgerufen werden.

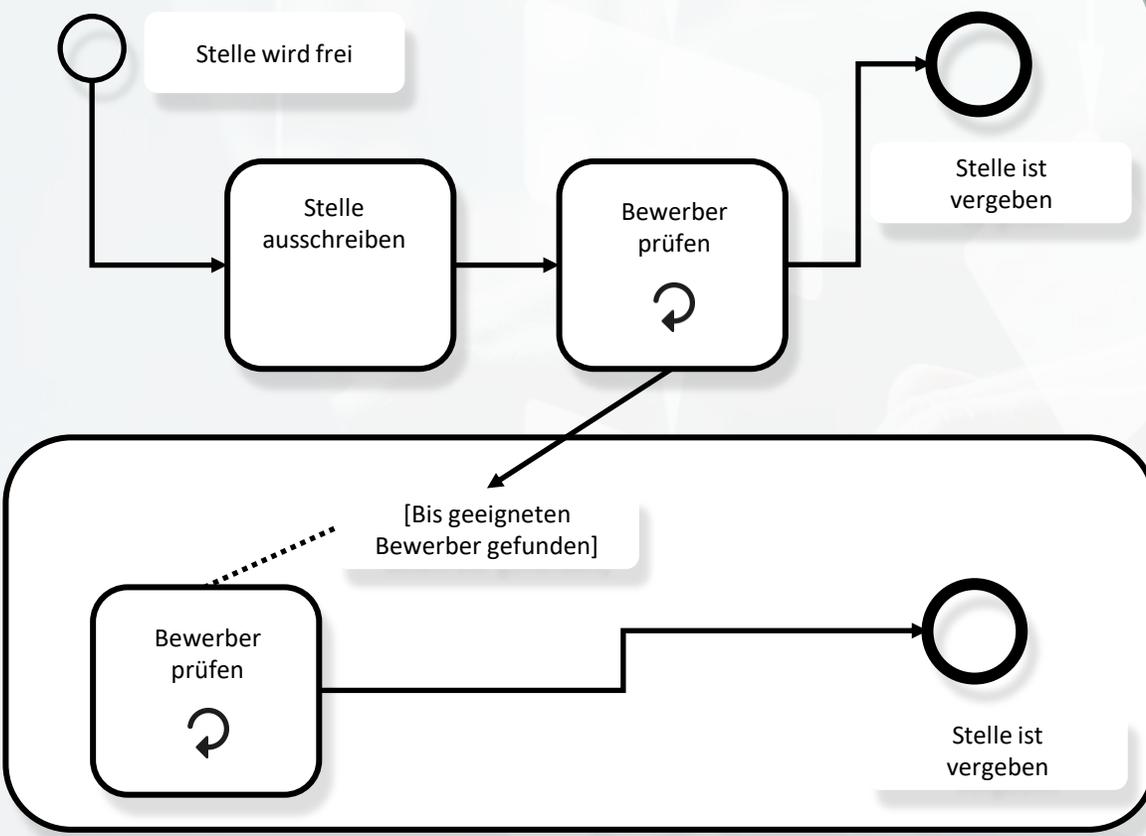
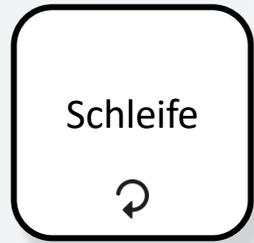
Beispiel Subprozess:



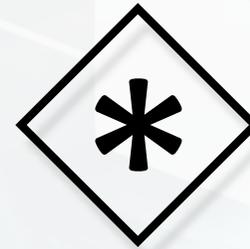
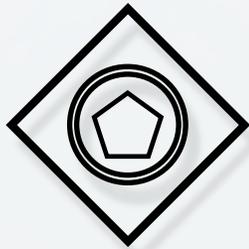
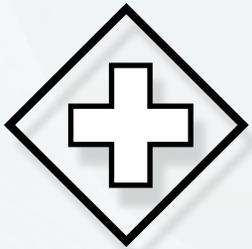
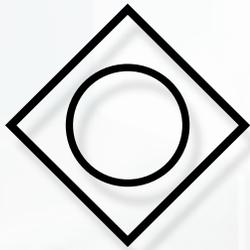
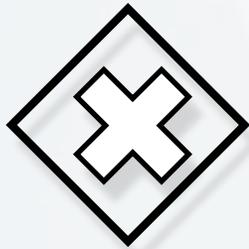
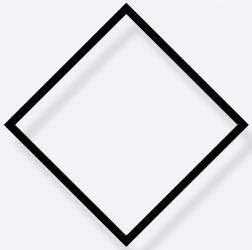
Der aufgeklappte Subprozess



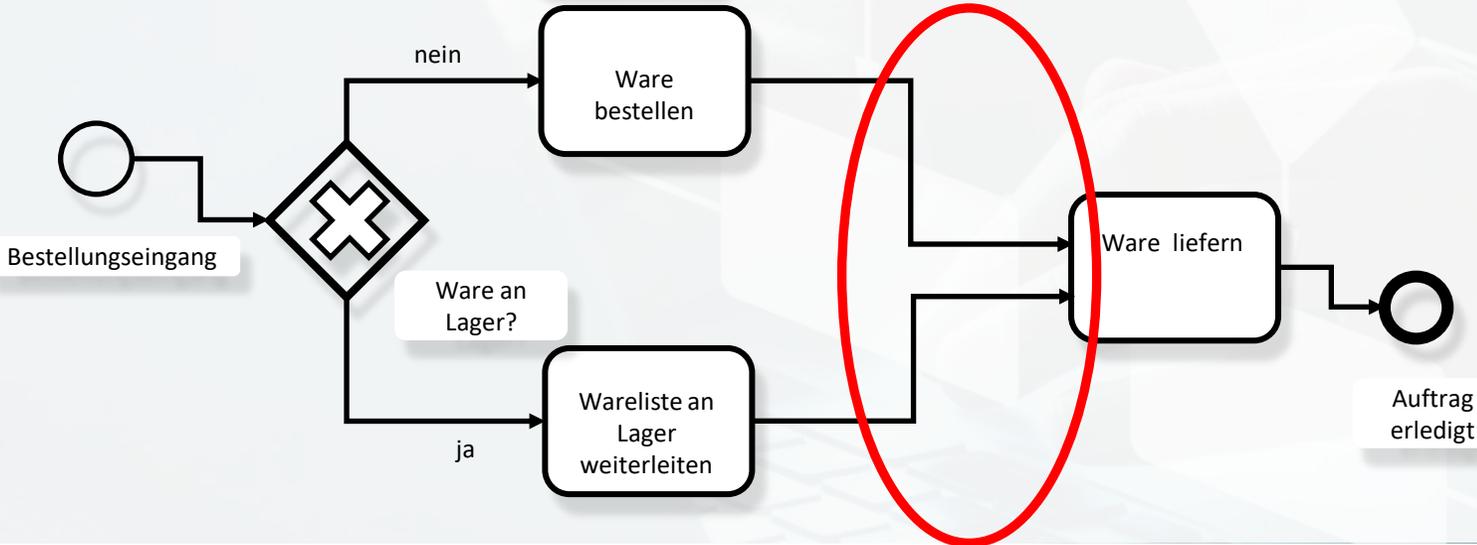
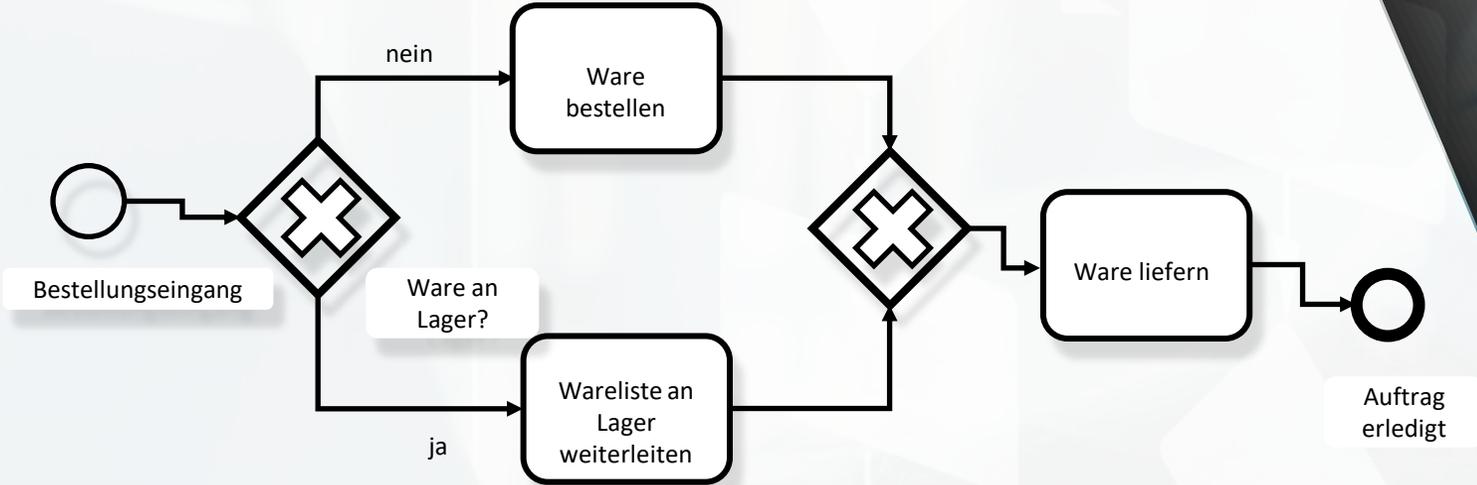
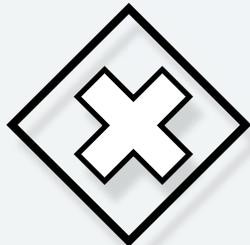
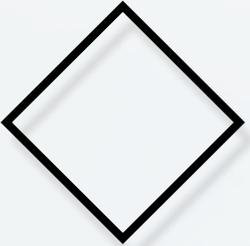
Schleifen & Mehrfachaktivitäten



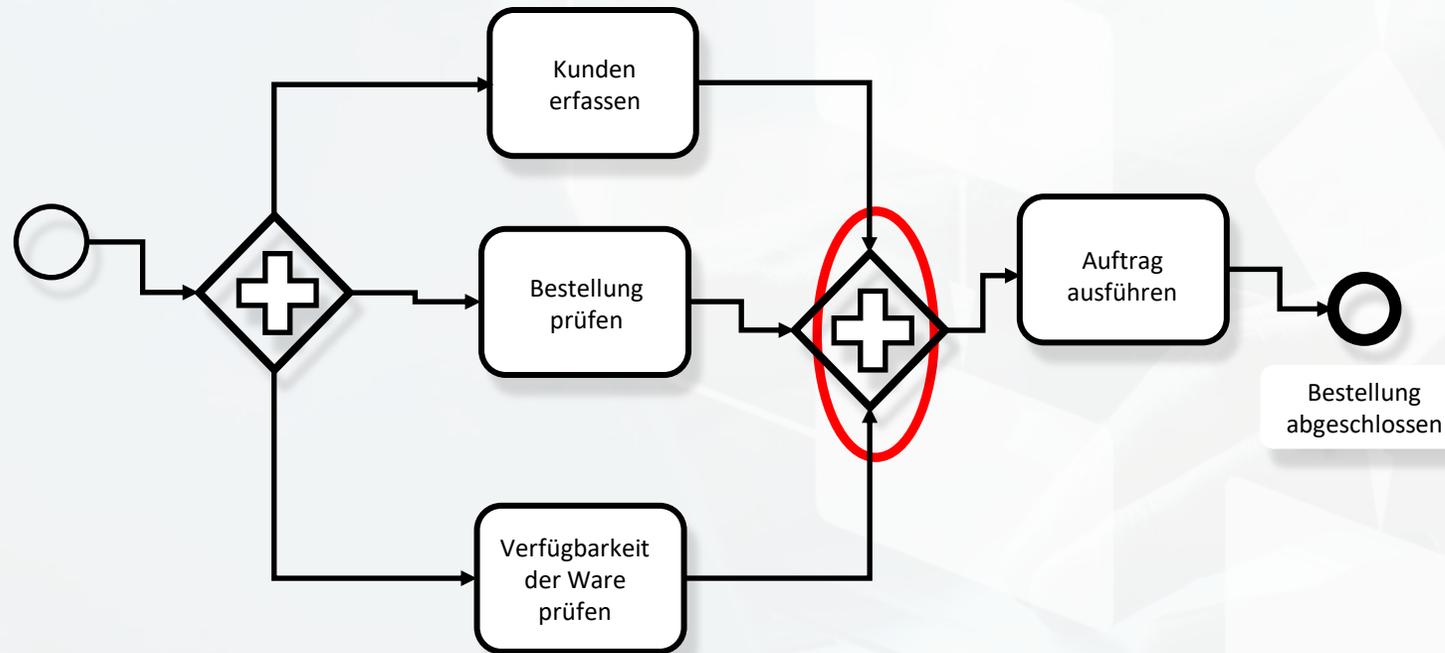
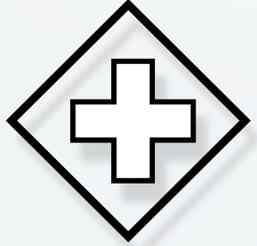
Gateways



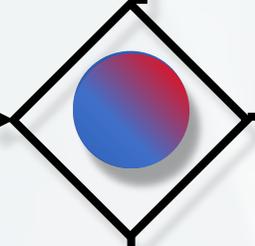
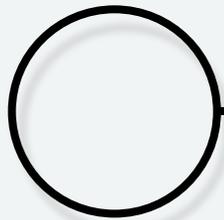
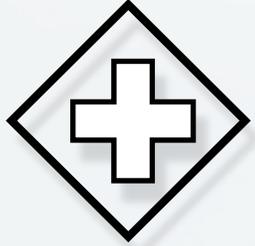
Exklusives Gateway \ XOR



Paralleles Gateway \ AND



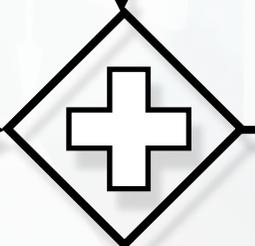
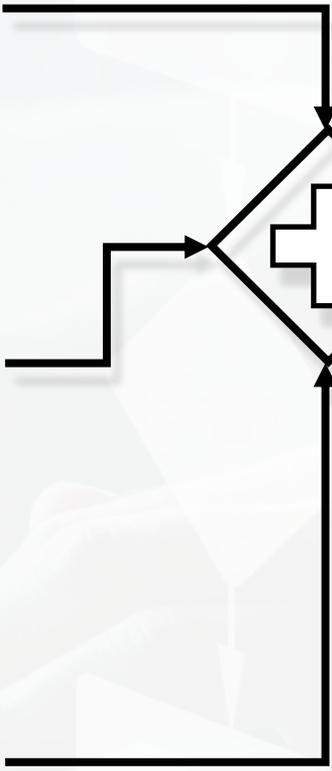
AND Gateway



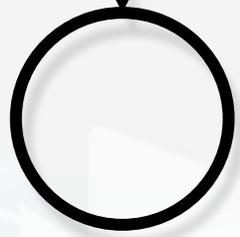
Kunden prüfen

Bestellung prüfen

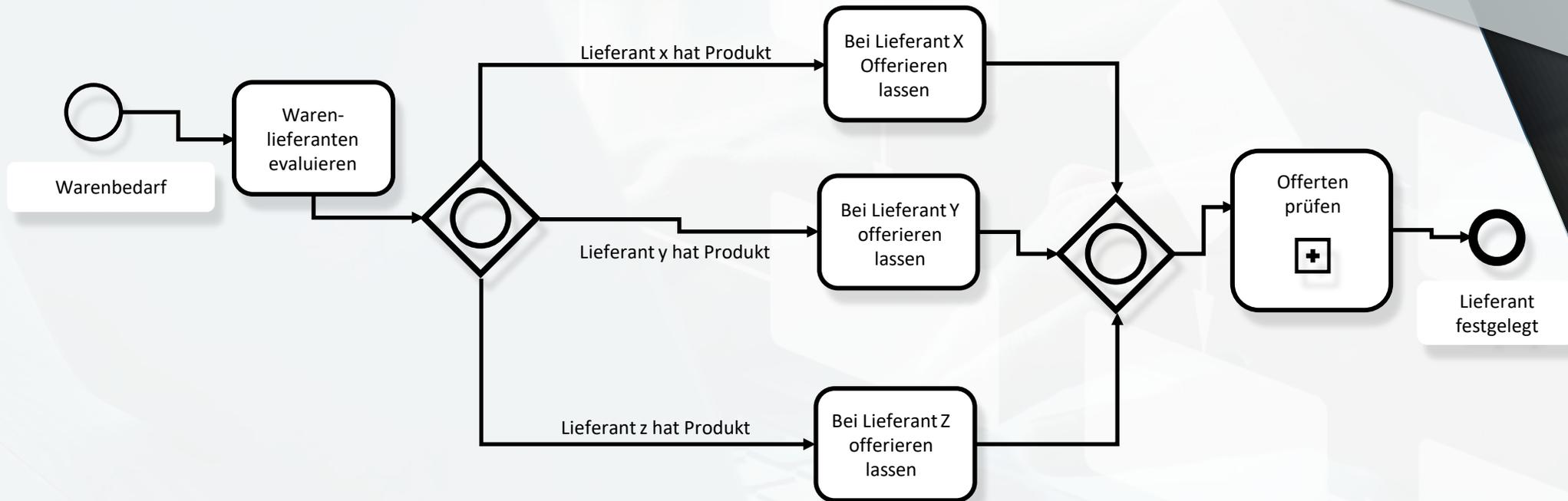
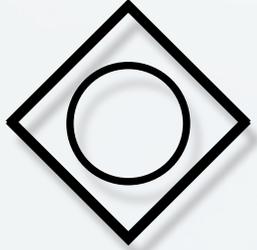
Verfügbarkeit der Ware prüfen



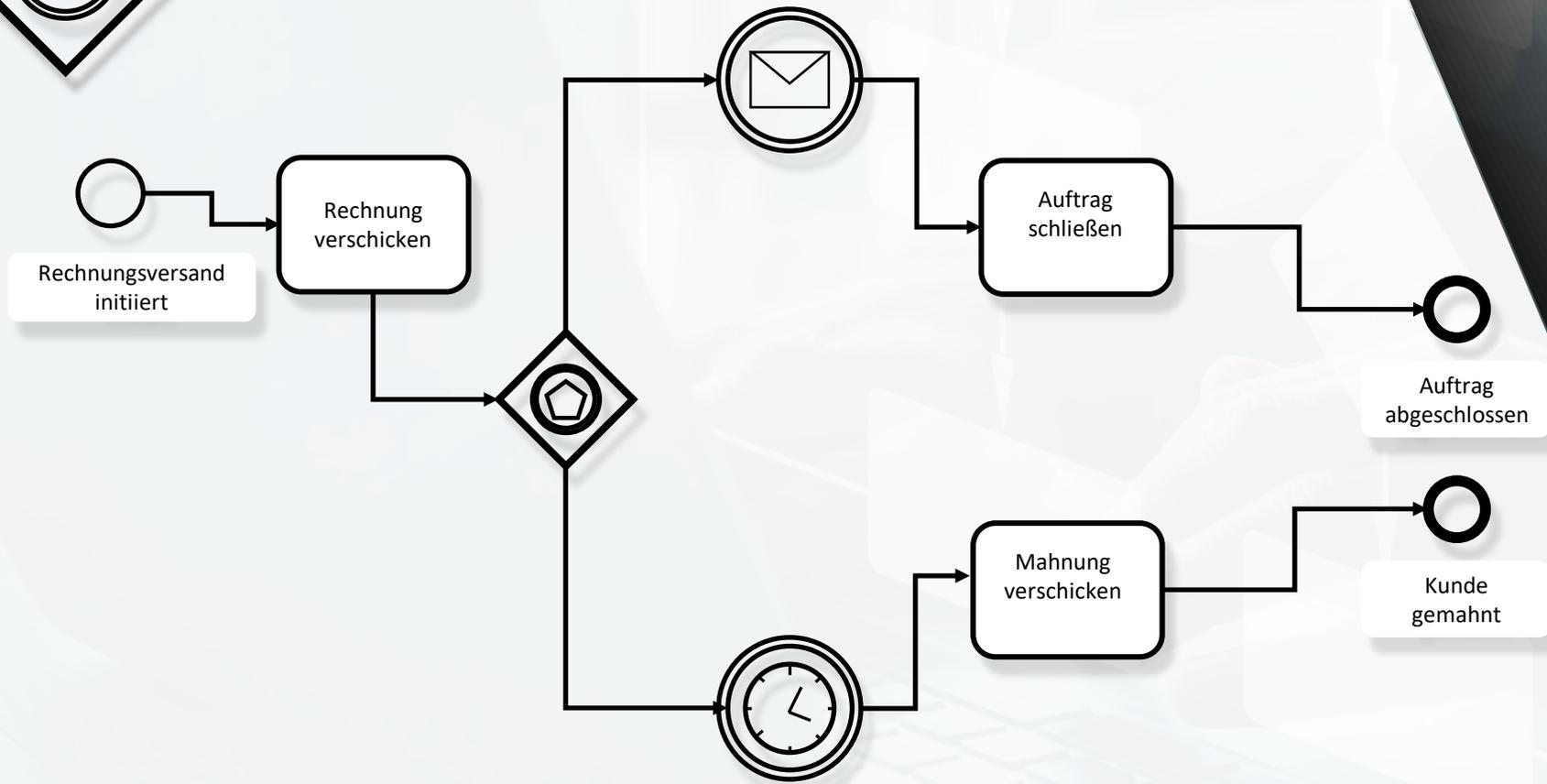
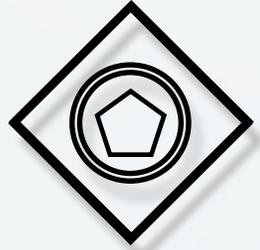
Auftrag ausführen



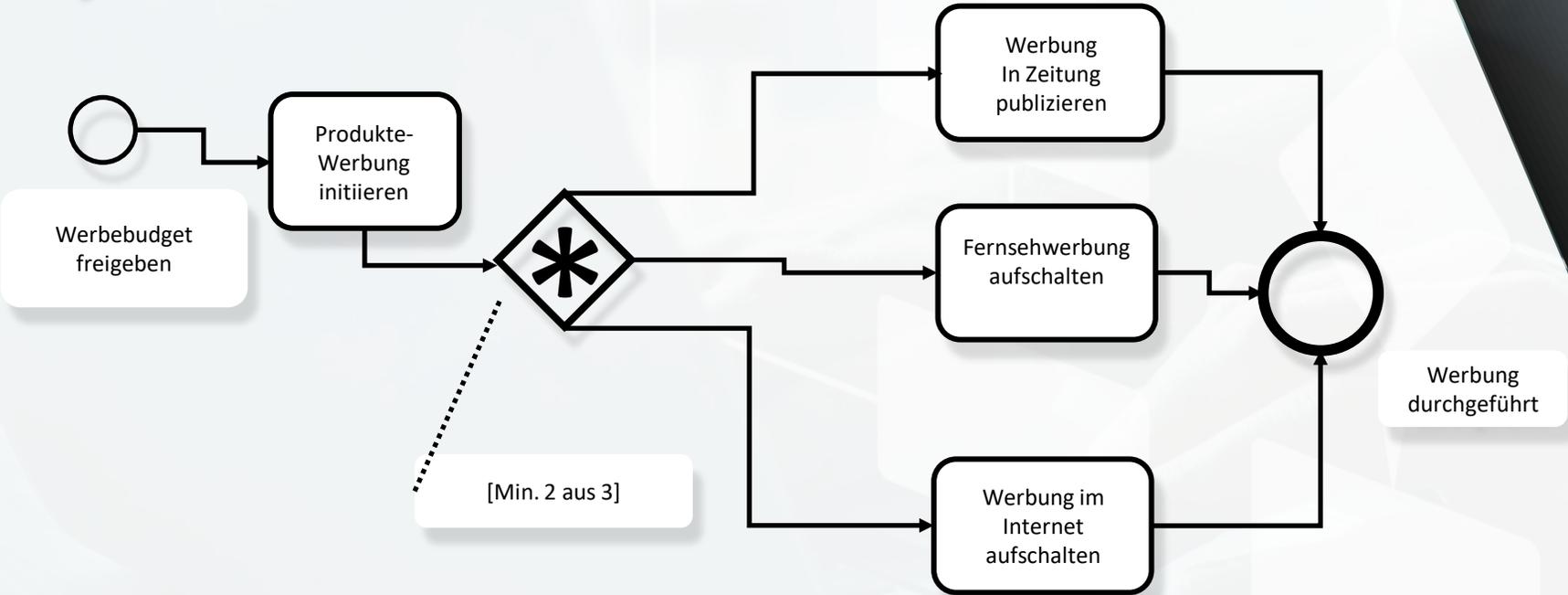
Inklusives Gateway \ OR



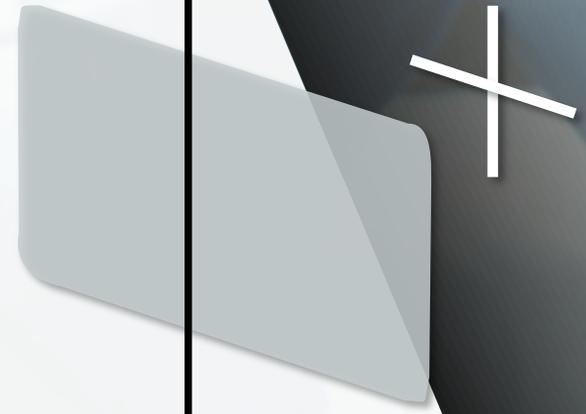
Ereignisbasiertes Gateway



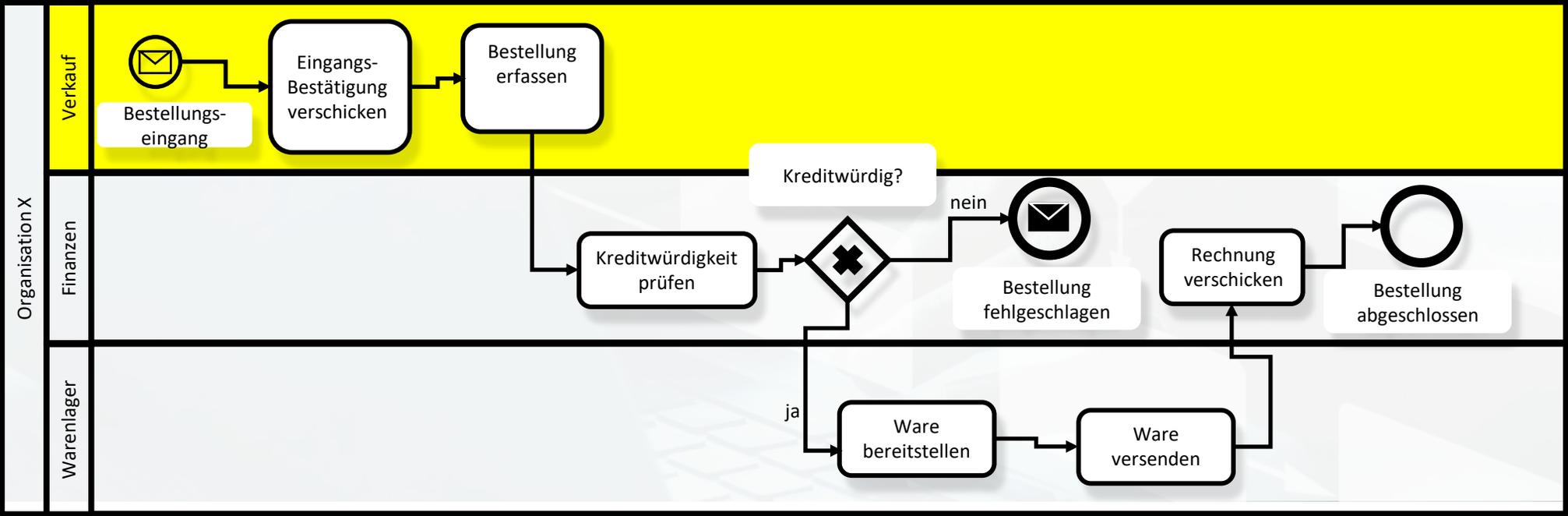
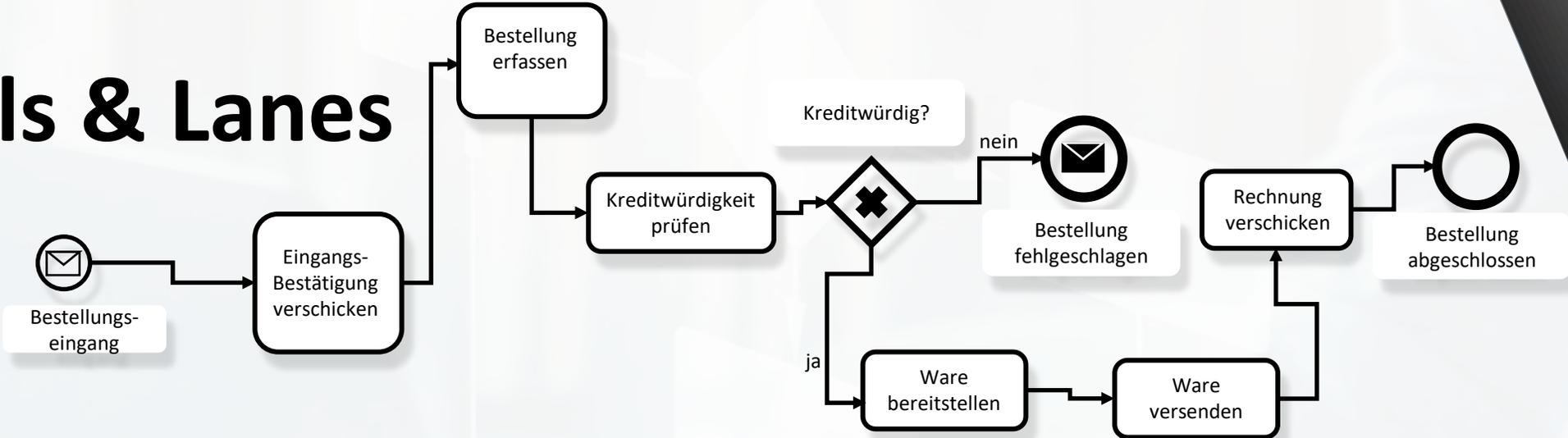
Komplexes Gateway



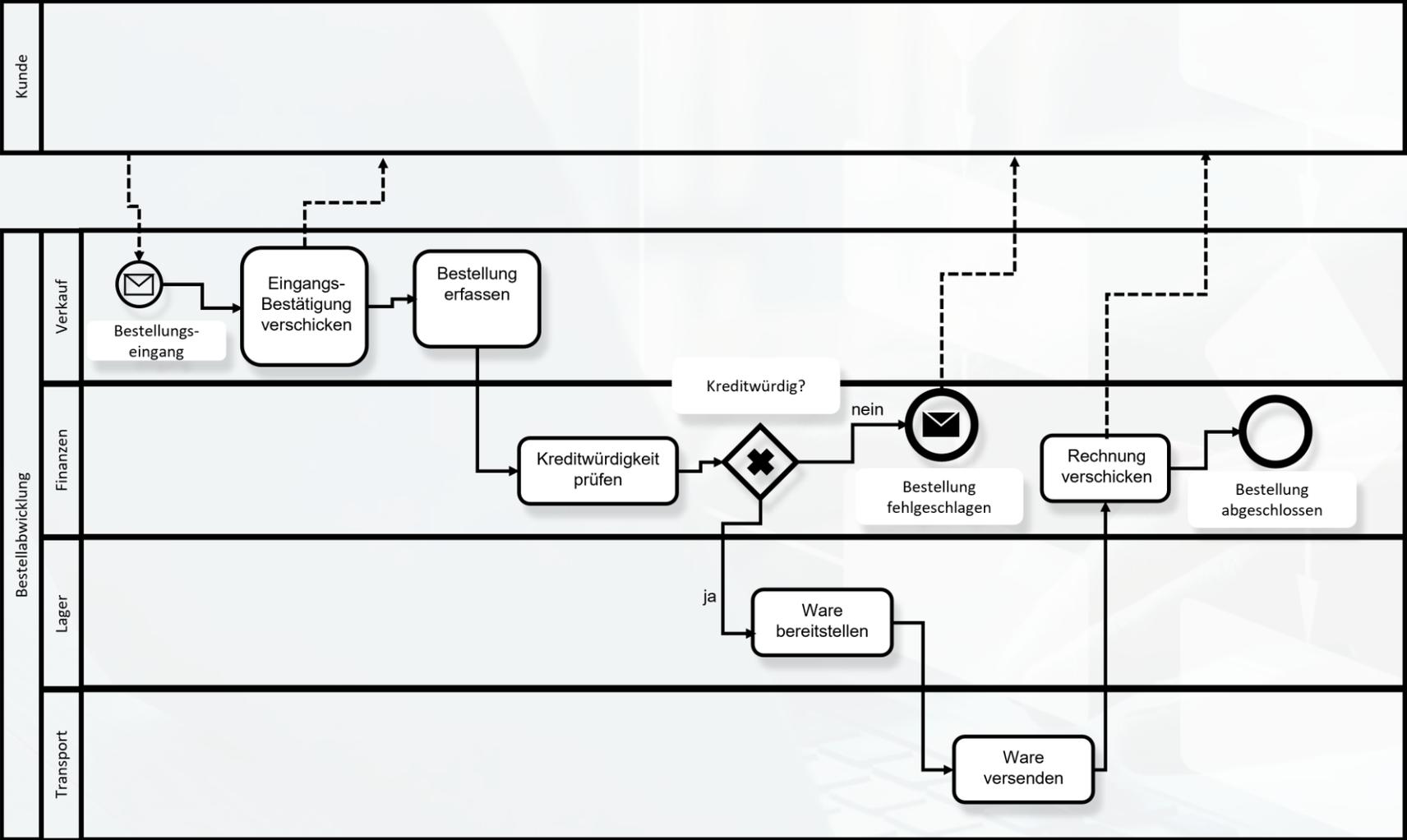
Pools & Lanes



Pools & Lanes

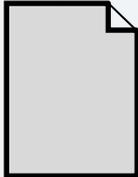


Externe Prozessbeteiligte

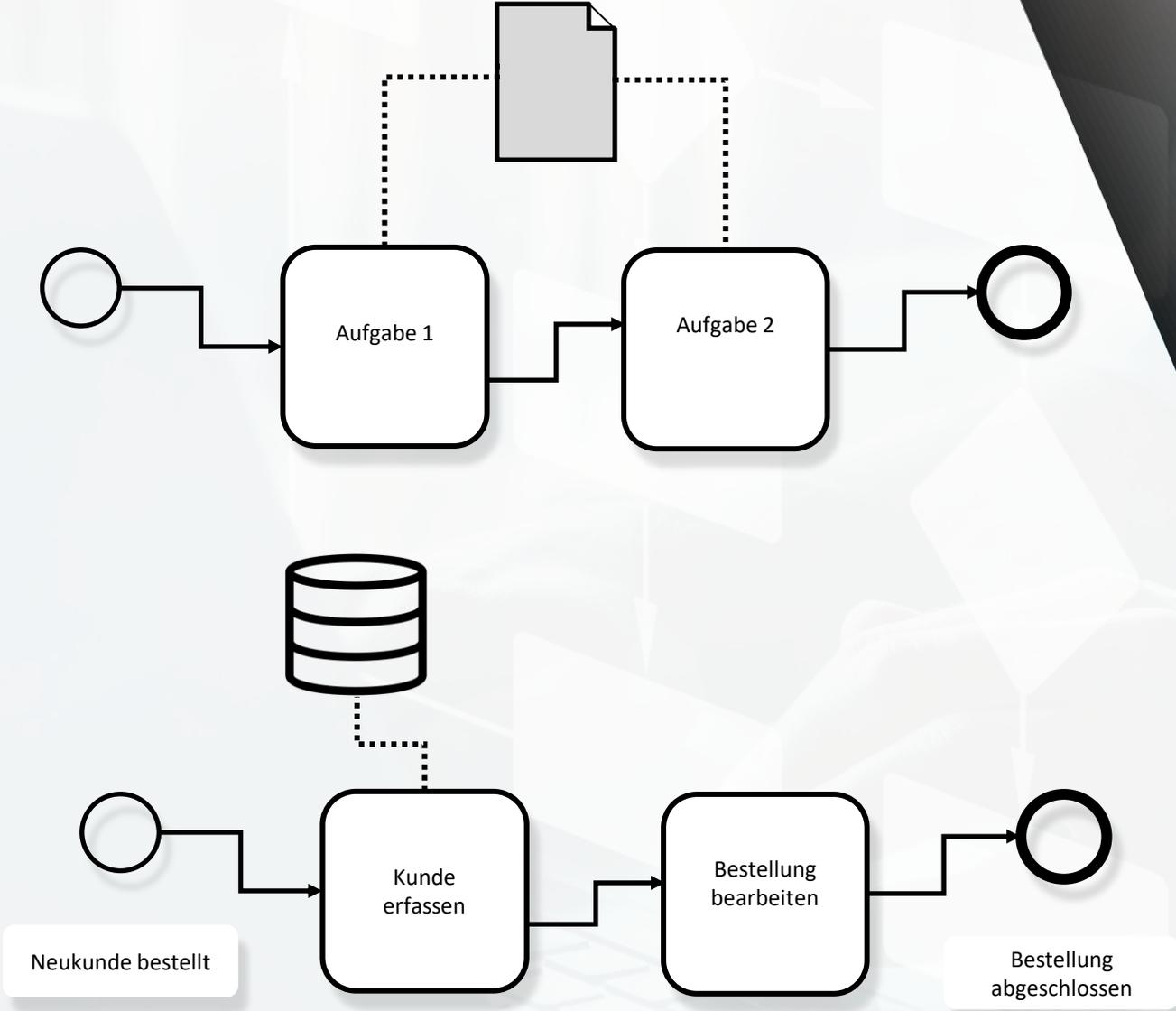


Daten

Daten-Objekt



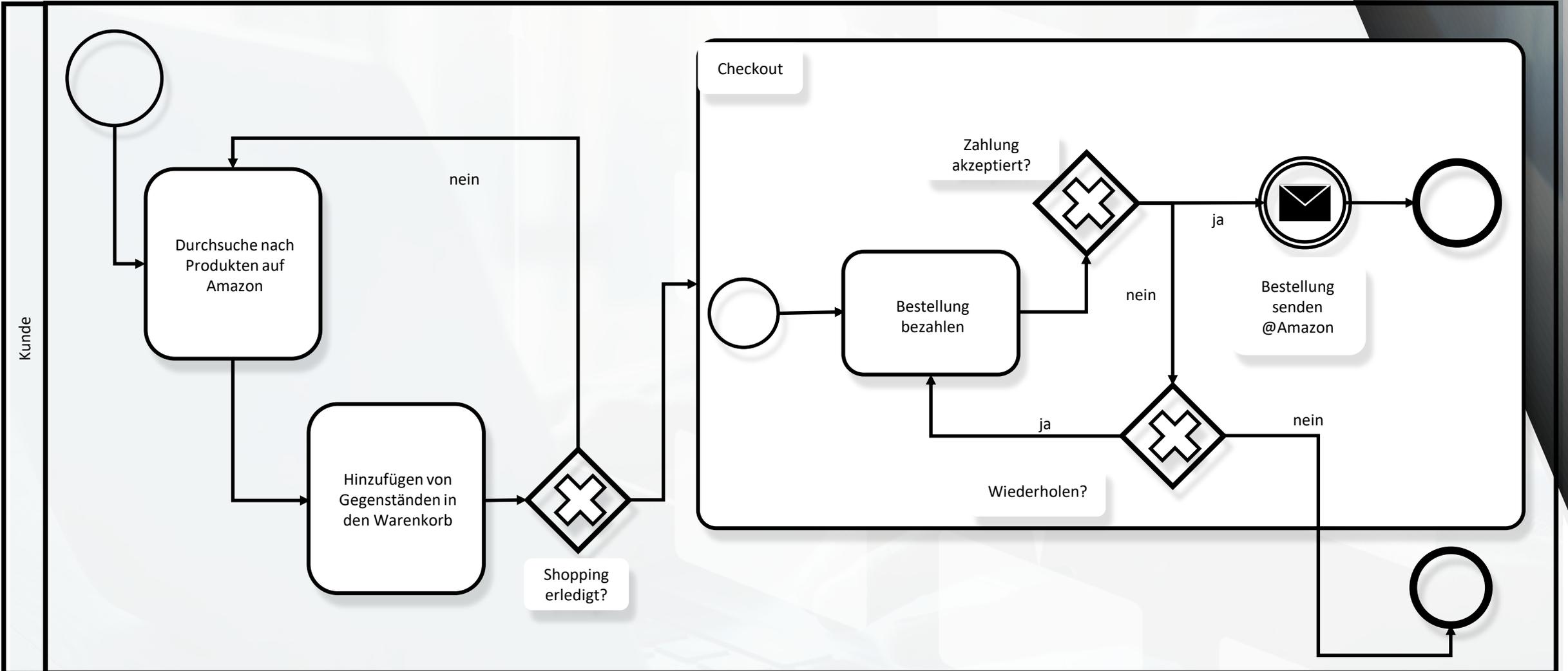
Datenspeicher



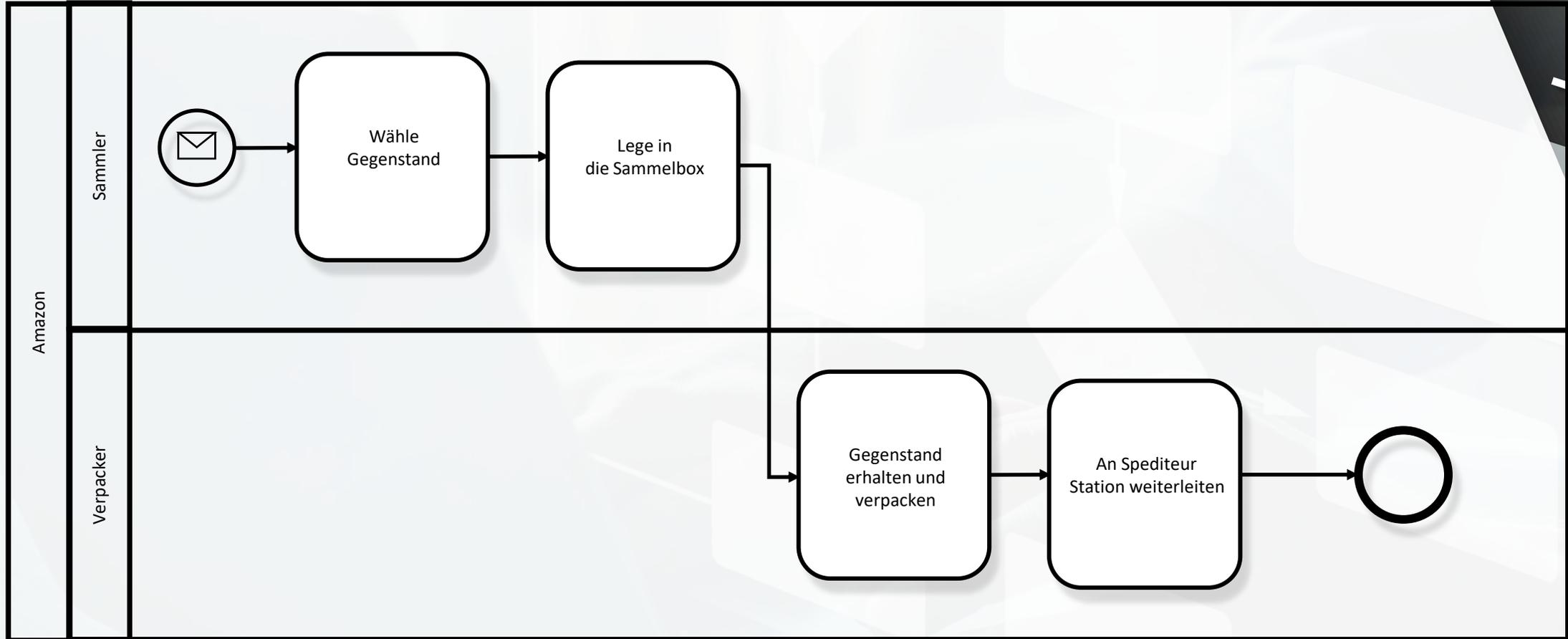
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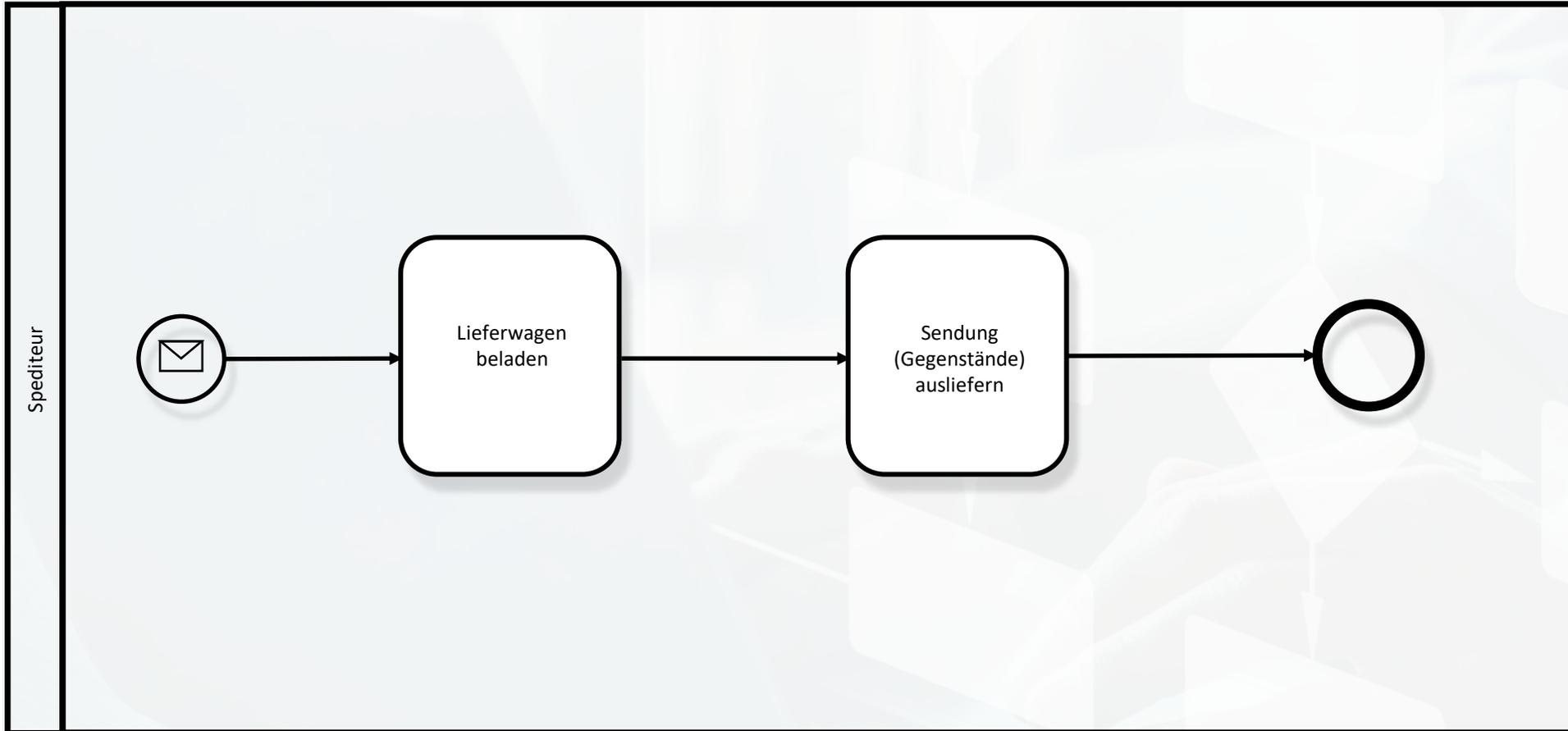
Praktisches Beispiel: Kunde



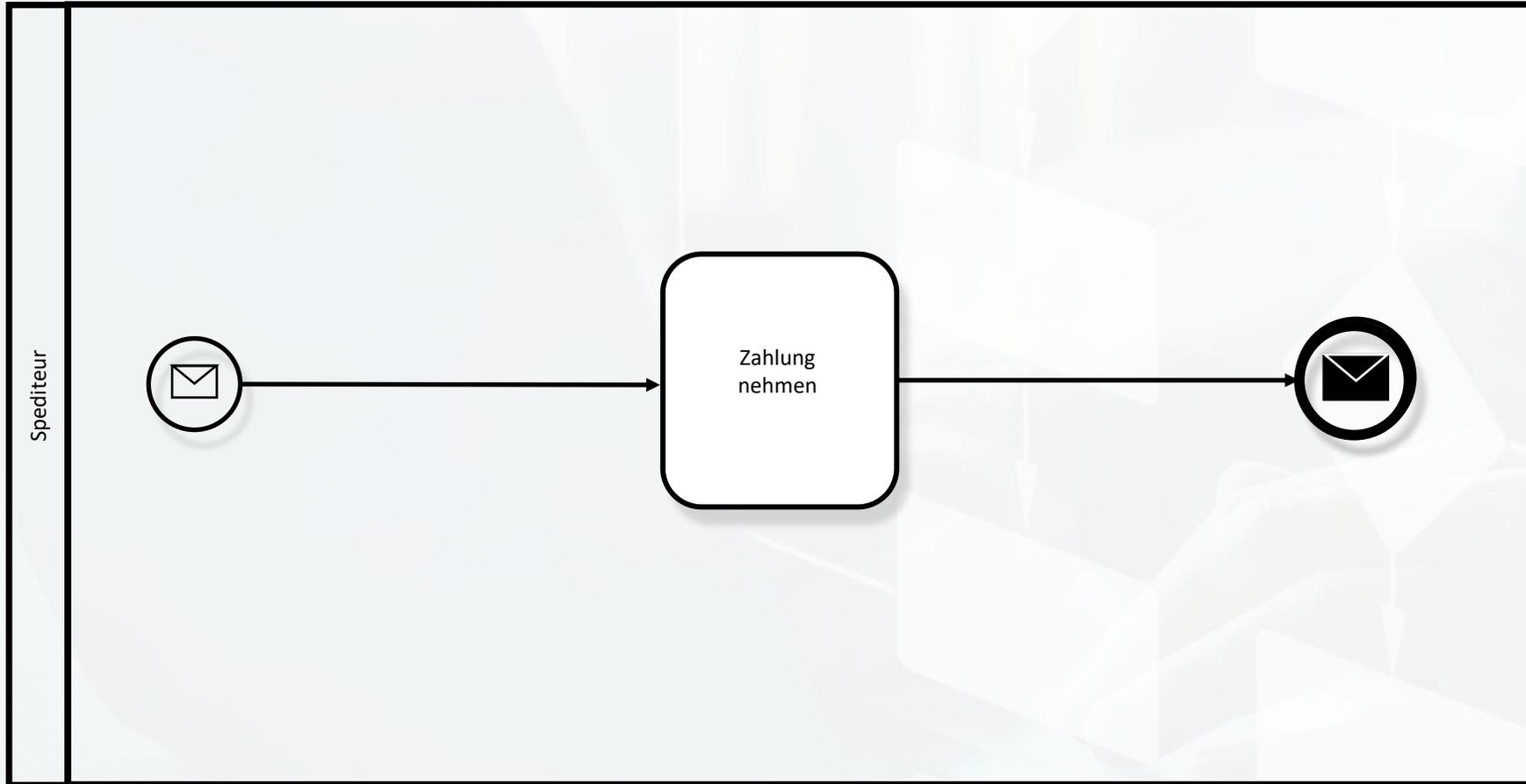
Praktisches Beispiel: Amazon



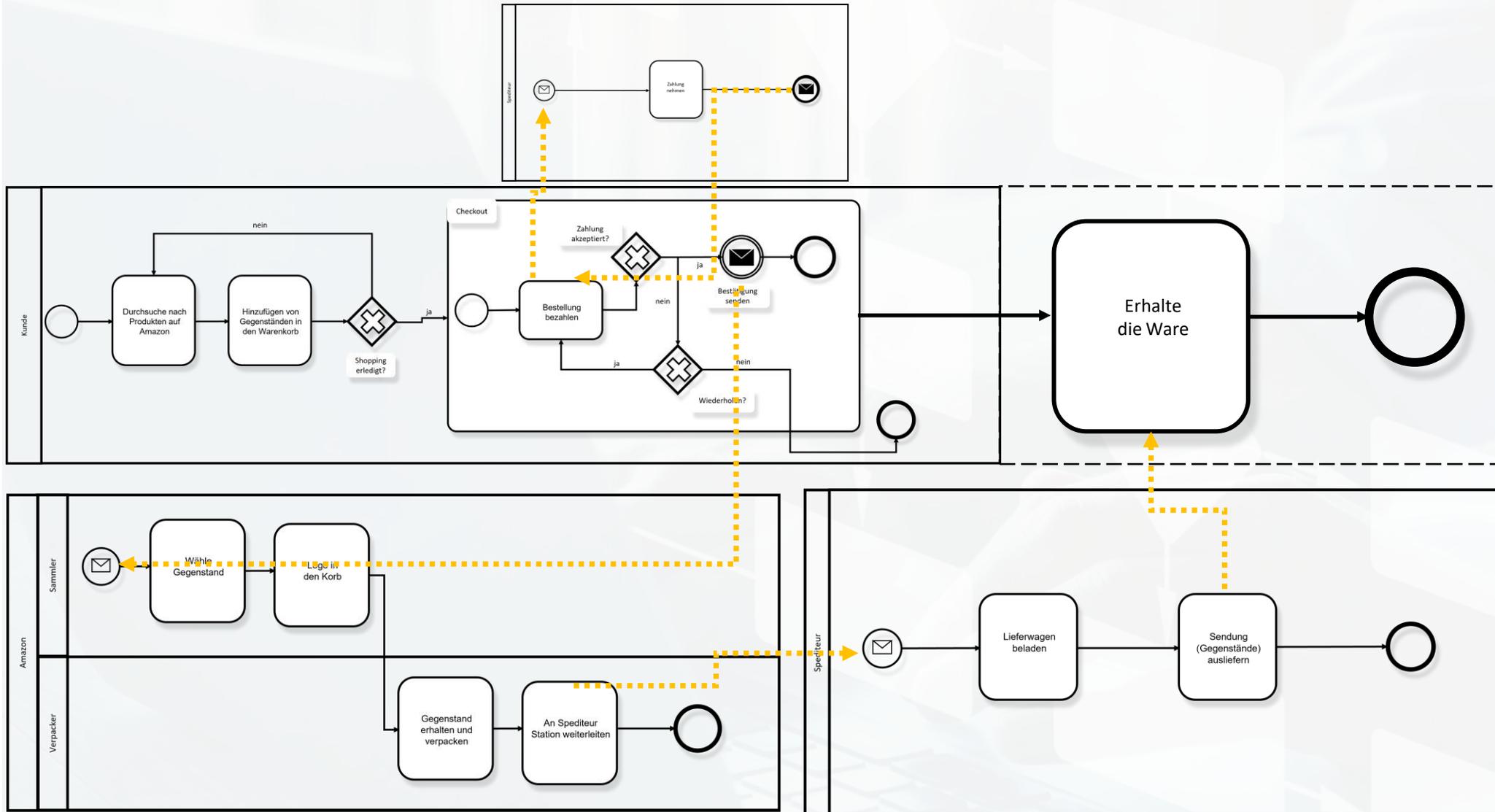
Praktisches Beispiel: Spediteur



Praktisches Beispiel: Geldinstitut



Praktisches Beispiel: Überblick



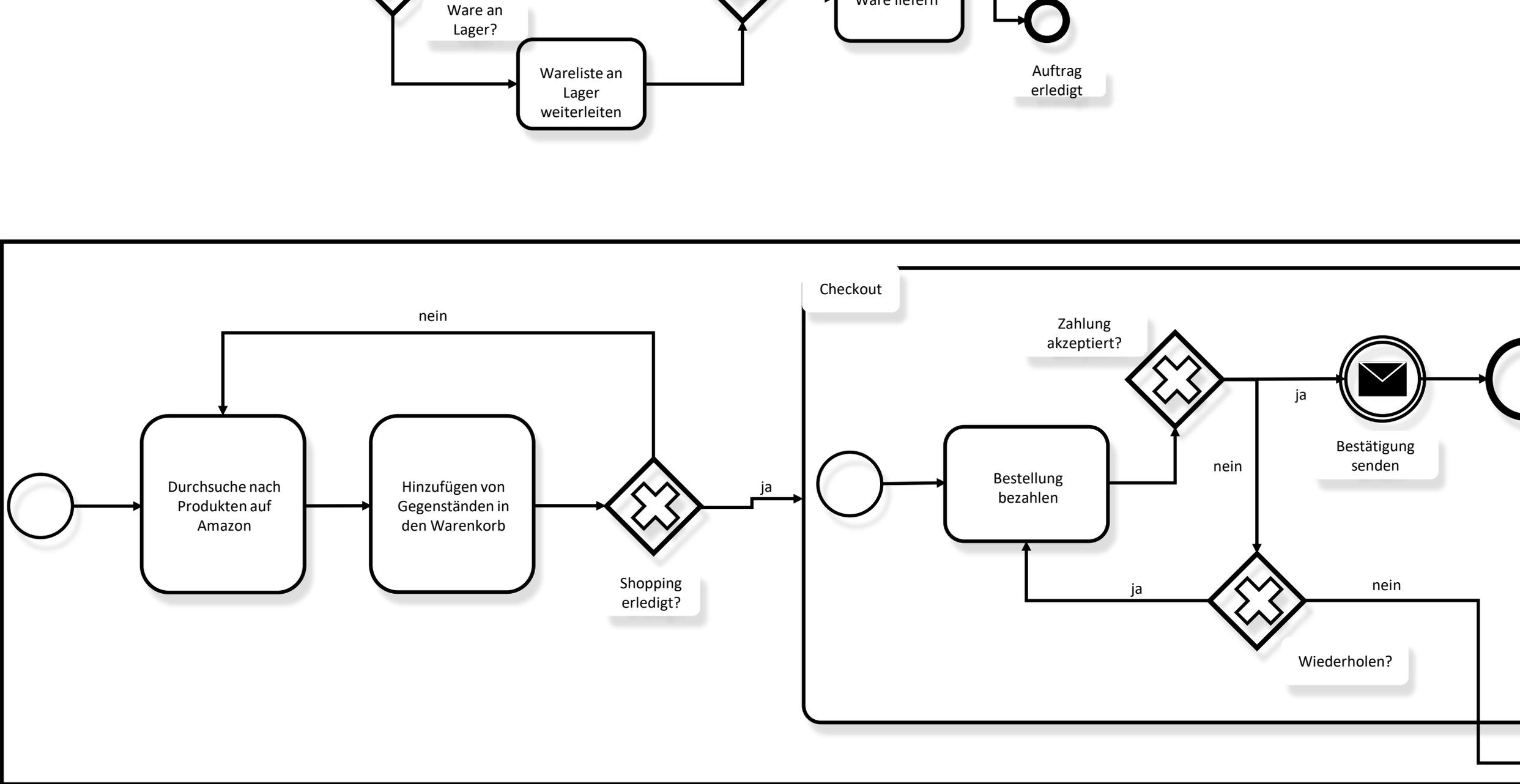
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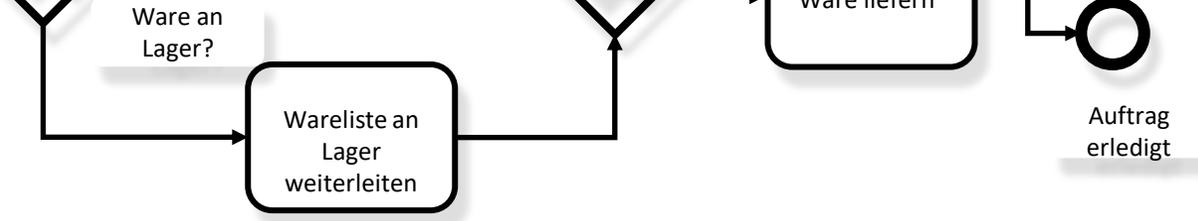
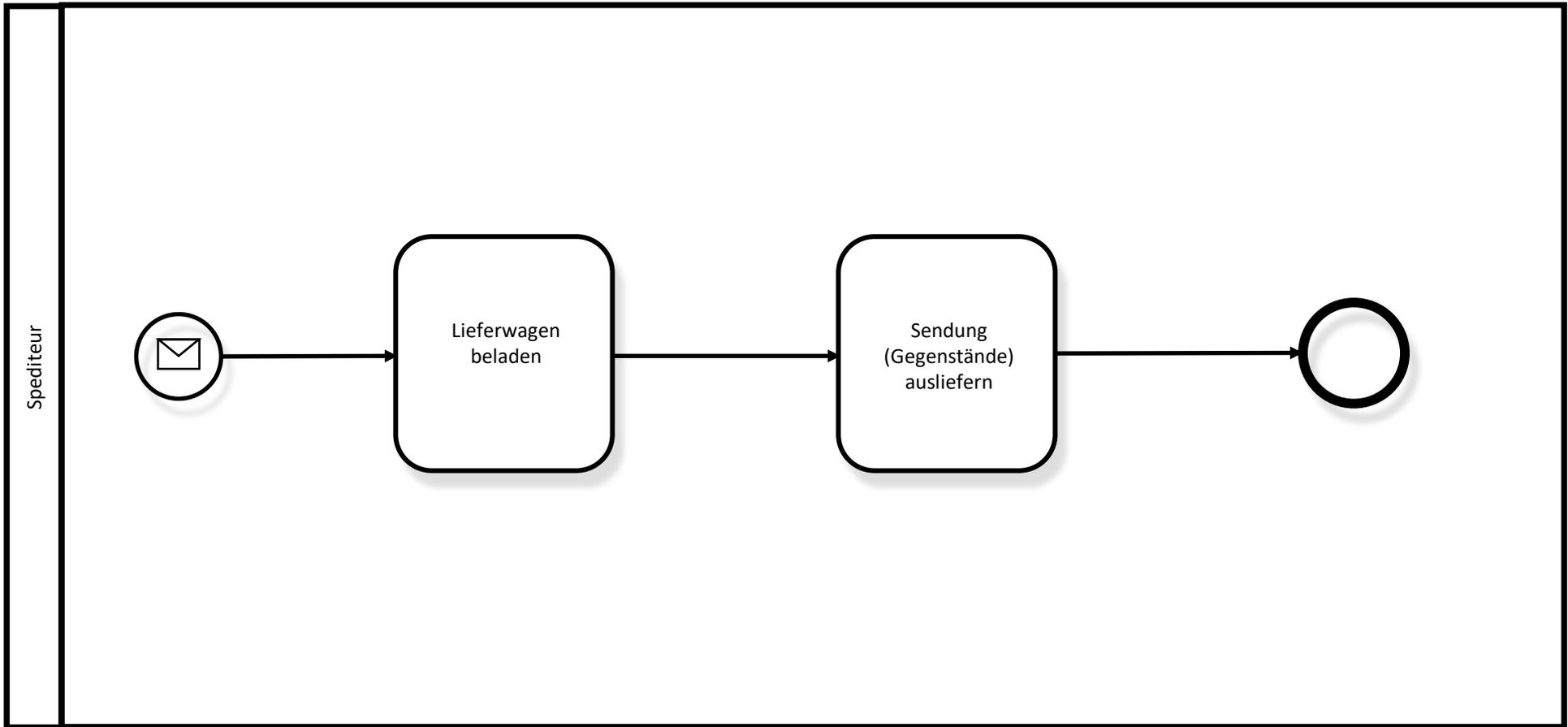
- <https://www.edrawsoft.com/de/bpmndiagram/what-is-bpmn.html>
- <https://mi-nautics.com/business-process-model-and-notation-bpmn-2-0/#>
- <https://t2informatik.de/wissen-kompakt/bpmn/#:~:text=BPMN%202.0%20ist%20ein%20anerkannter,der%20Softwareentwicklung%20zum%20Einsatz%20kommt.>
- <https://www.inveskills.com/bpmn/bpmn-vs-uml/>
- <https://www.inveskills.com/bpmn/bpmn-examples/>
- [https://bpmo.de/bpm-wiki/business-process-modelling-notation-bpmn/#:~:text=In%202002%20ver%C3%B6ffentlichte%20IBM%20schlie%C3%9Flich,%20FIEC%2019510%3A2013\).](https://bpmo.de/bpm-wiki/business-process-modelling-notation-bpmn/#:~:text=In%202002%20ver%C3%B6ffentlichte%20IBM%20schlie%C3%9Flich,%20FIEC%2019510%3A2013).)
- <http://www.differencebetween.net/technology/difference-between-uml-and-bpmn/>
- <https://blog.sophist.de/2011/03/16/kampf-der-notationen-bpmn-vs-uml-teil-1/>
- <https://blog.sophist.de/2011/03/30/kampf-der-notationen-bpmn-vs-uml-teil-2/>
- <https://blog.sophist.de/2011/04/20/238/>

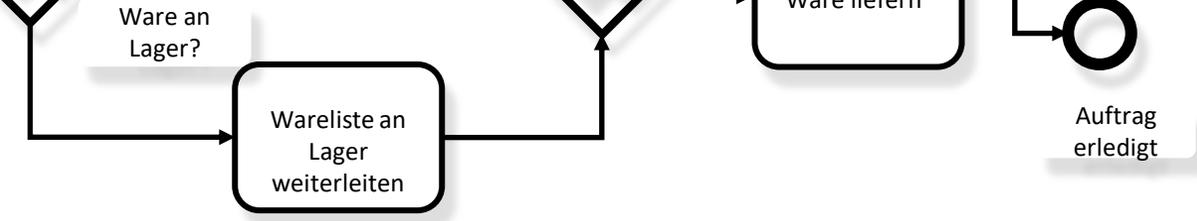
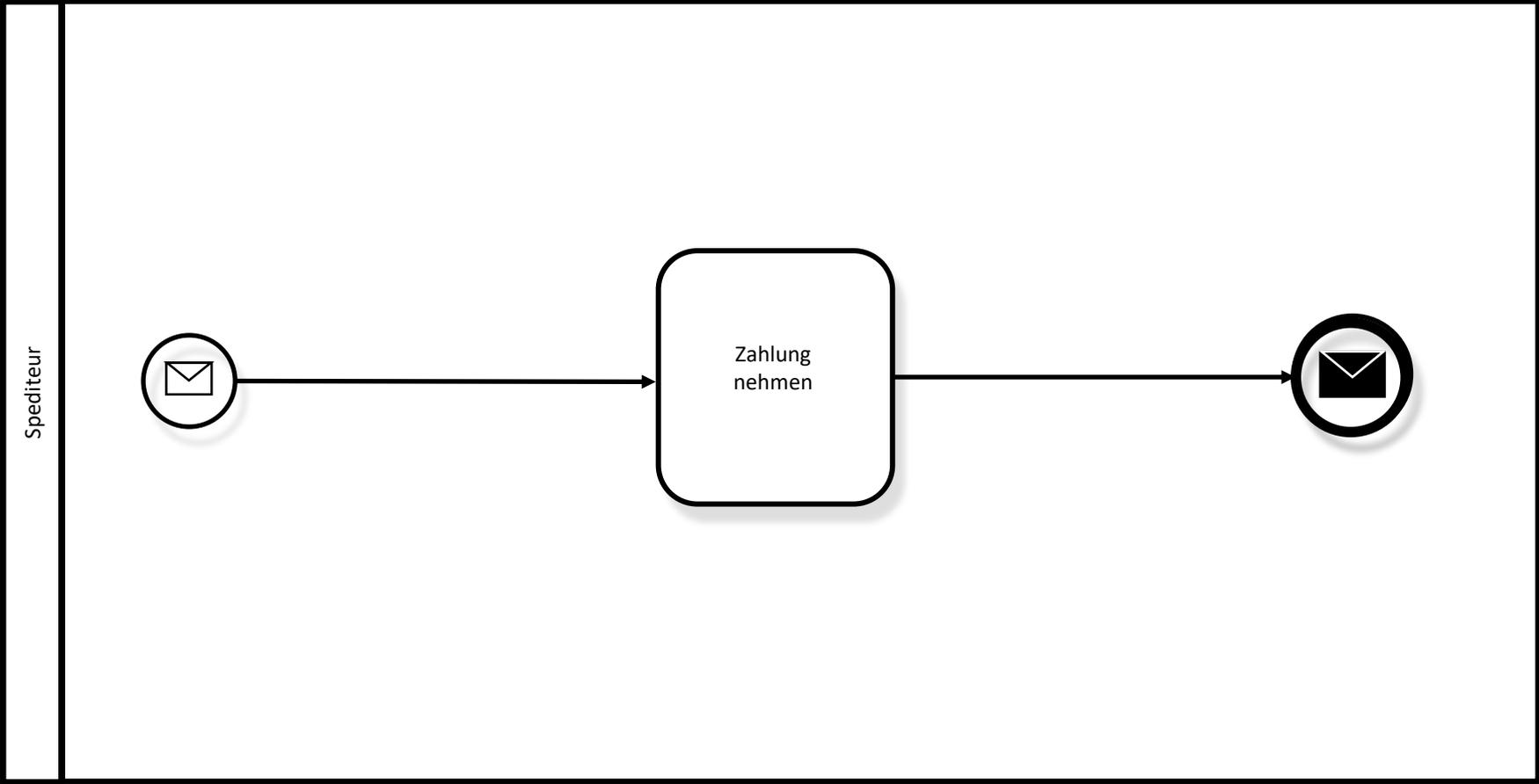


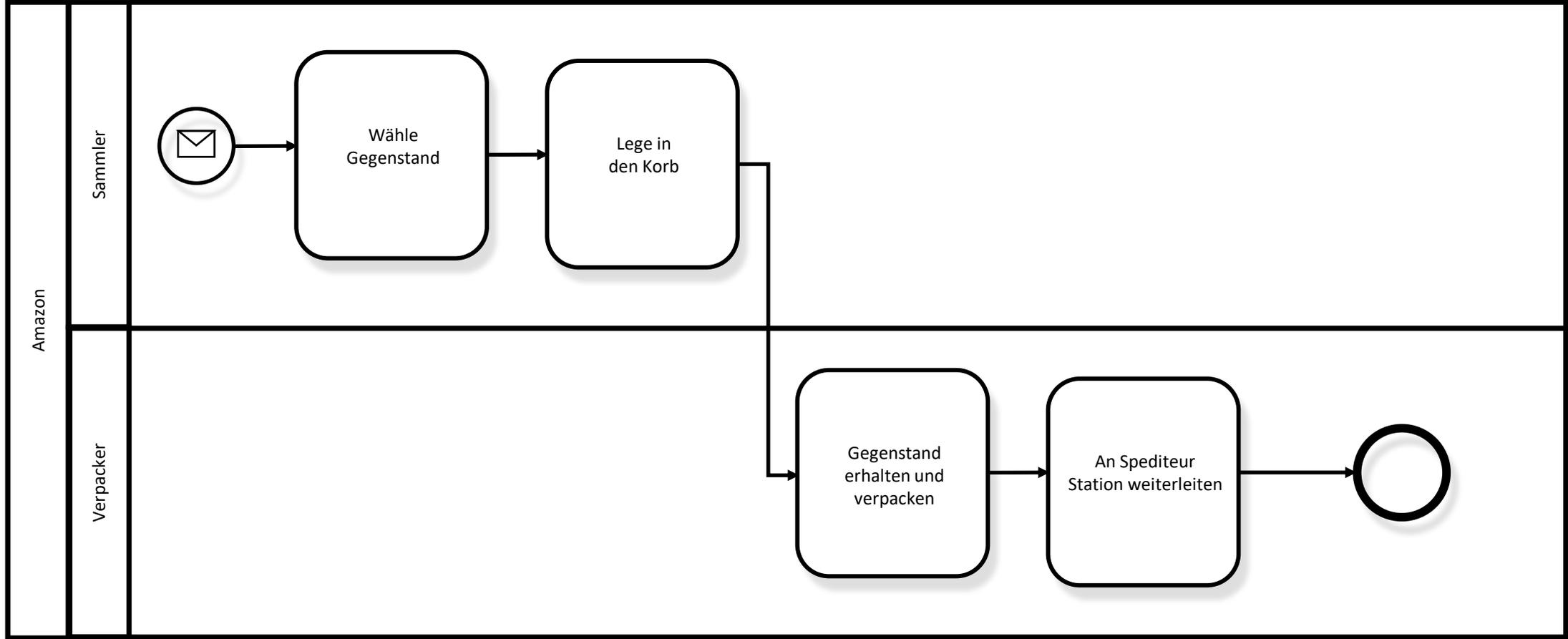
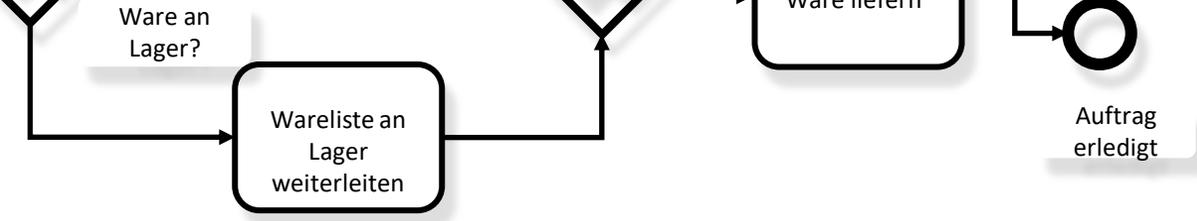
Entwürfe

Kunde



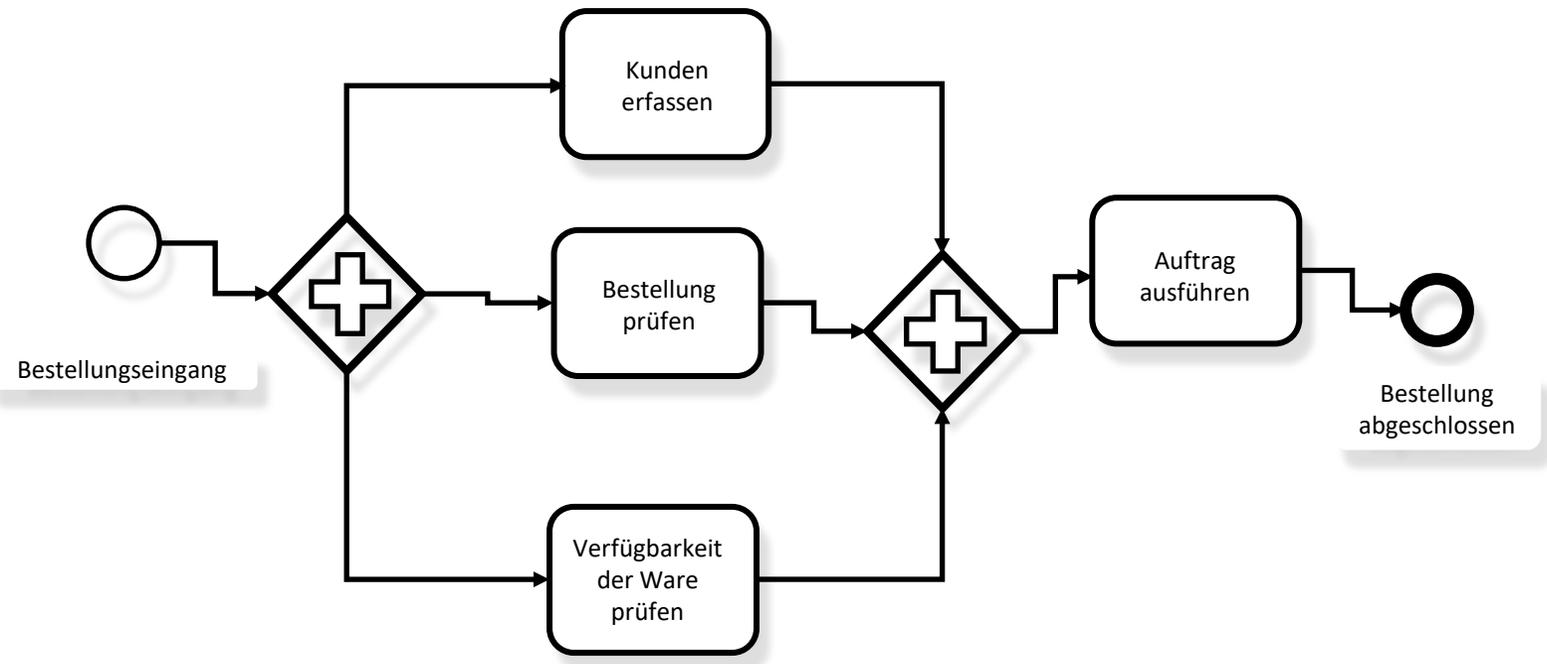






nein

Zahlung akzeptiert?



Warenbedarf

Waren-
lieferanten
evaluieren



Lieferant x hat Produkt

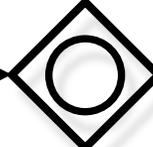
Bei Lieferant X
Offerieren
lassen

Lieferant y hat Produkt

Bei Lieferant Y
offerieren
lassen

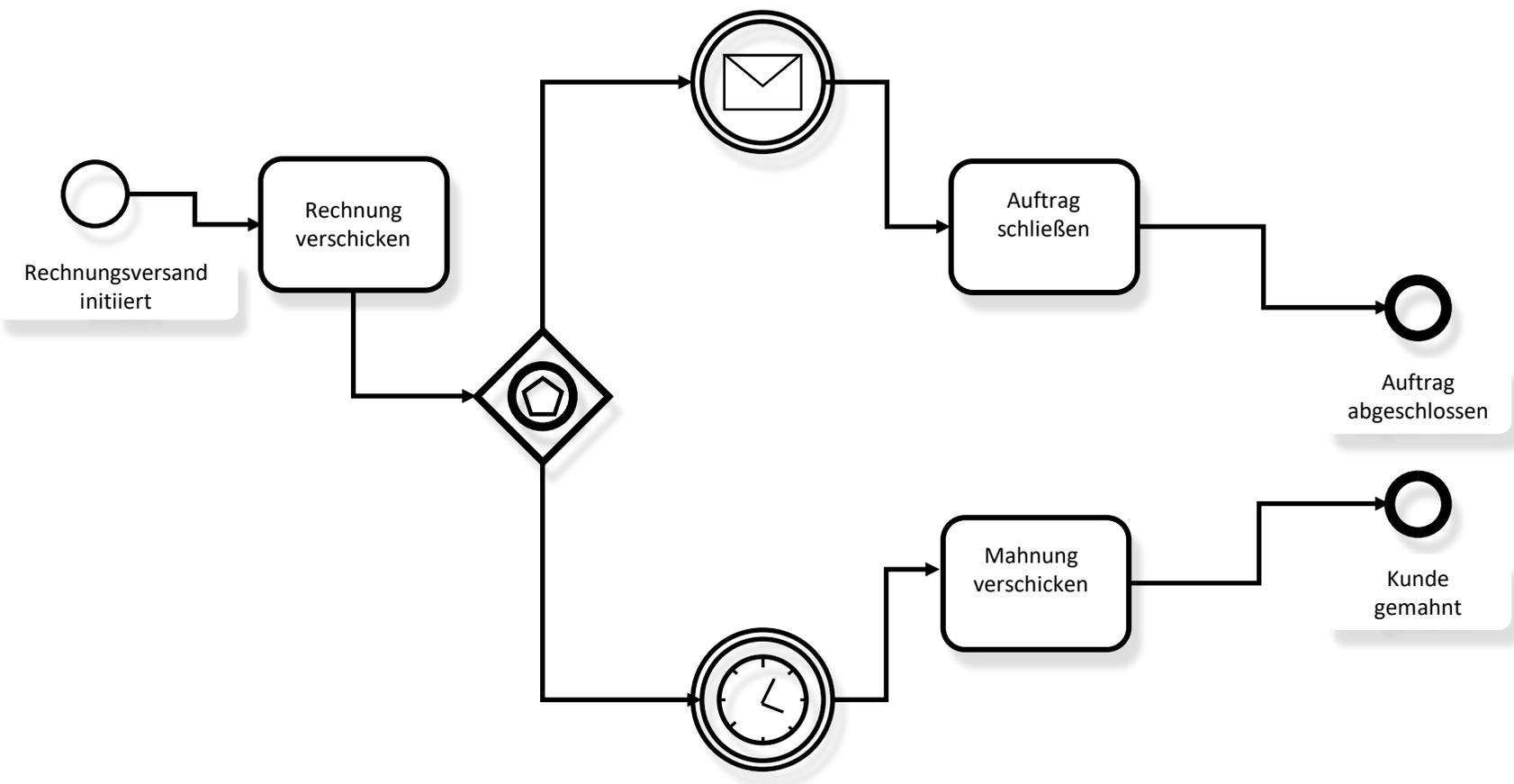
Lieferant z hat Produkt

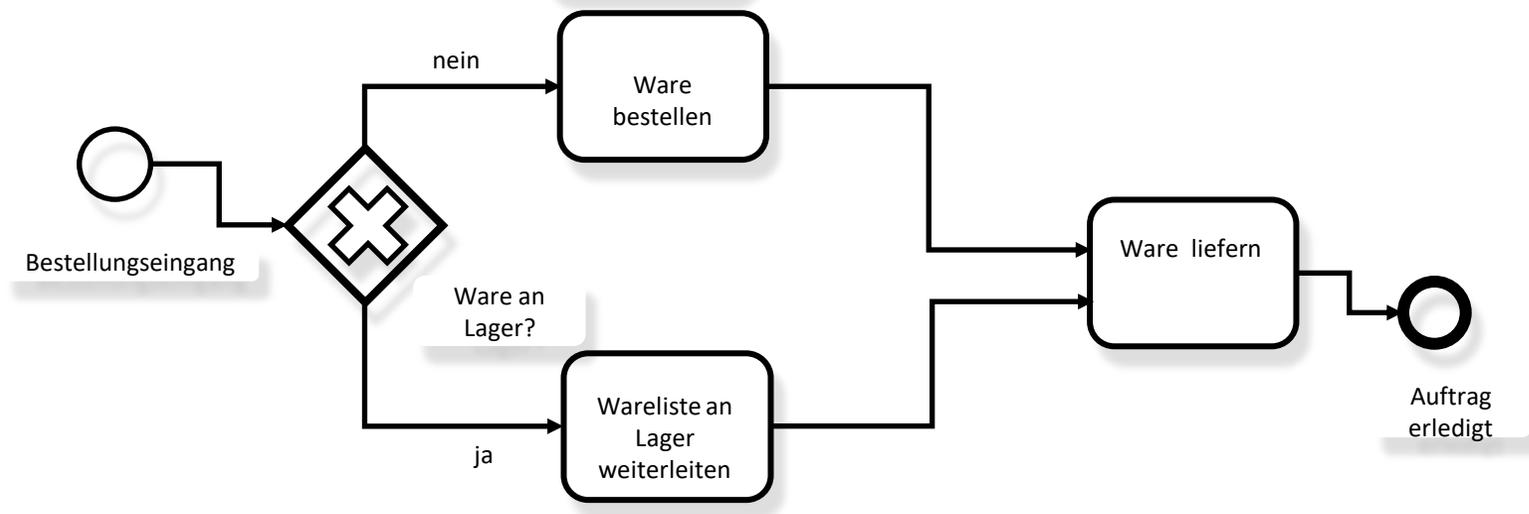
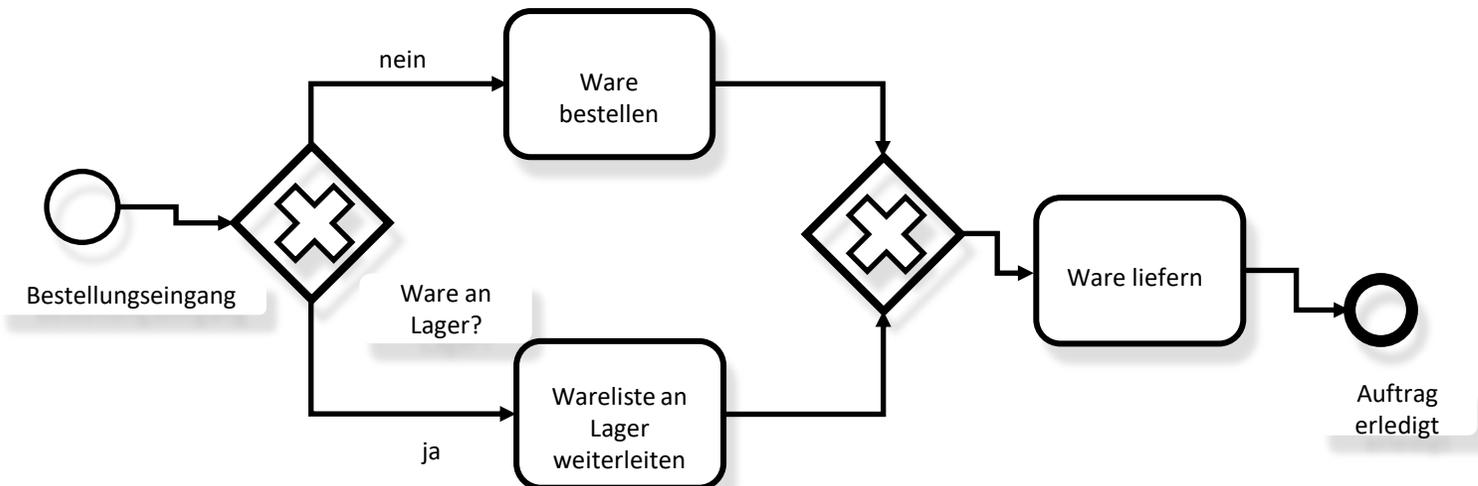
Bei Lieferant Z
offerieren
lassen

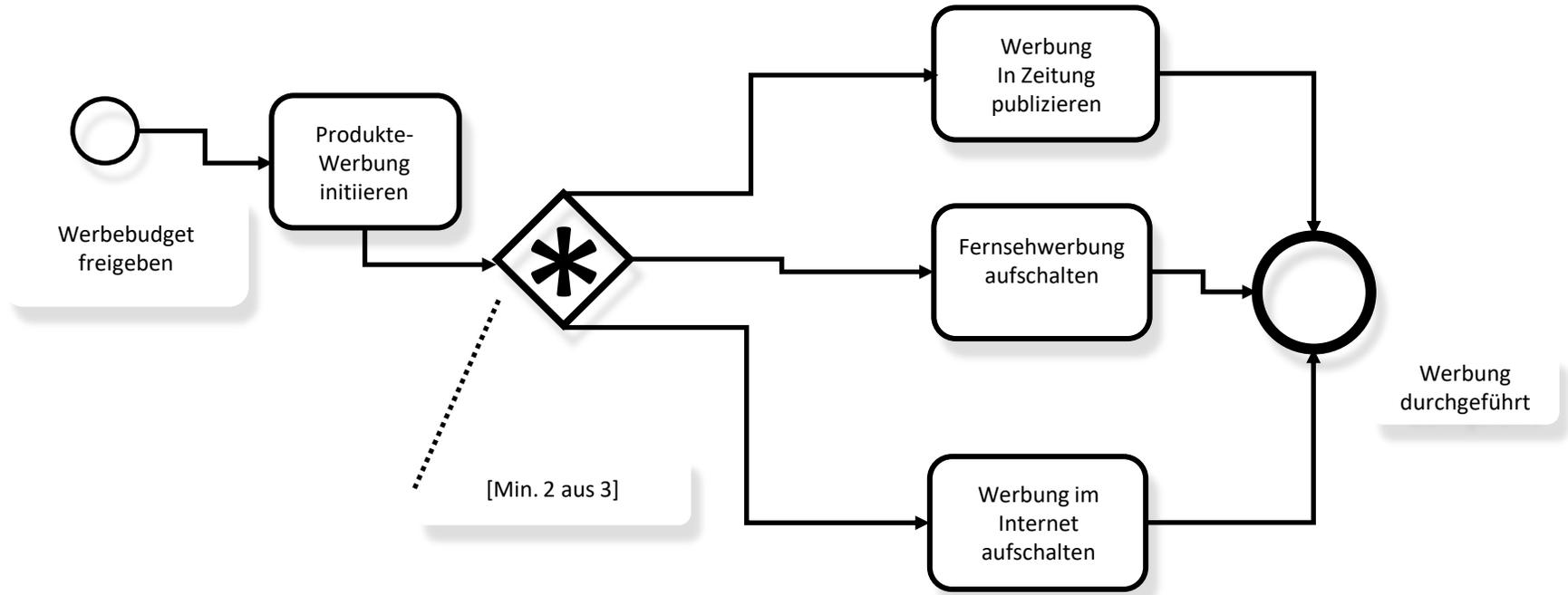


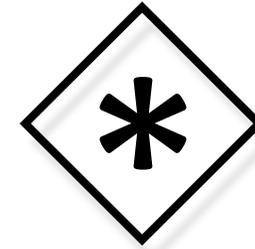
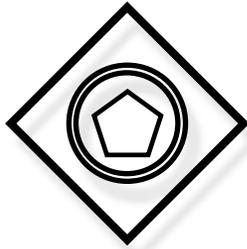
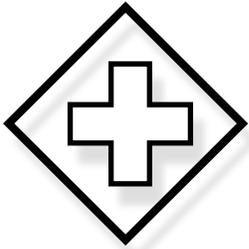
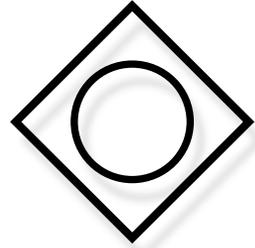
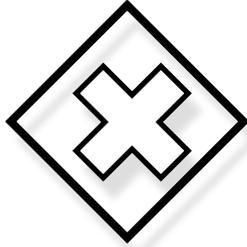
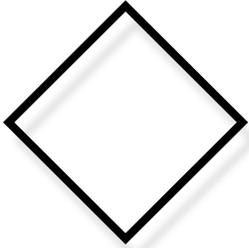
Offerten
prüfen
+

Lieferant
festgelegt

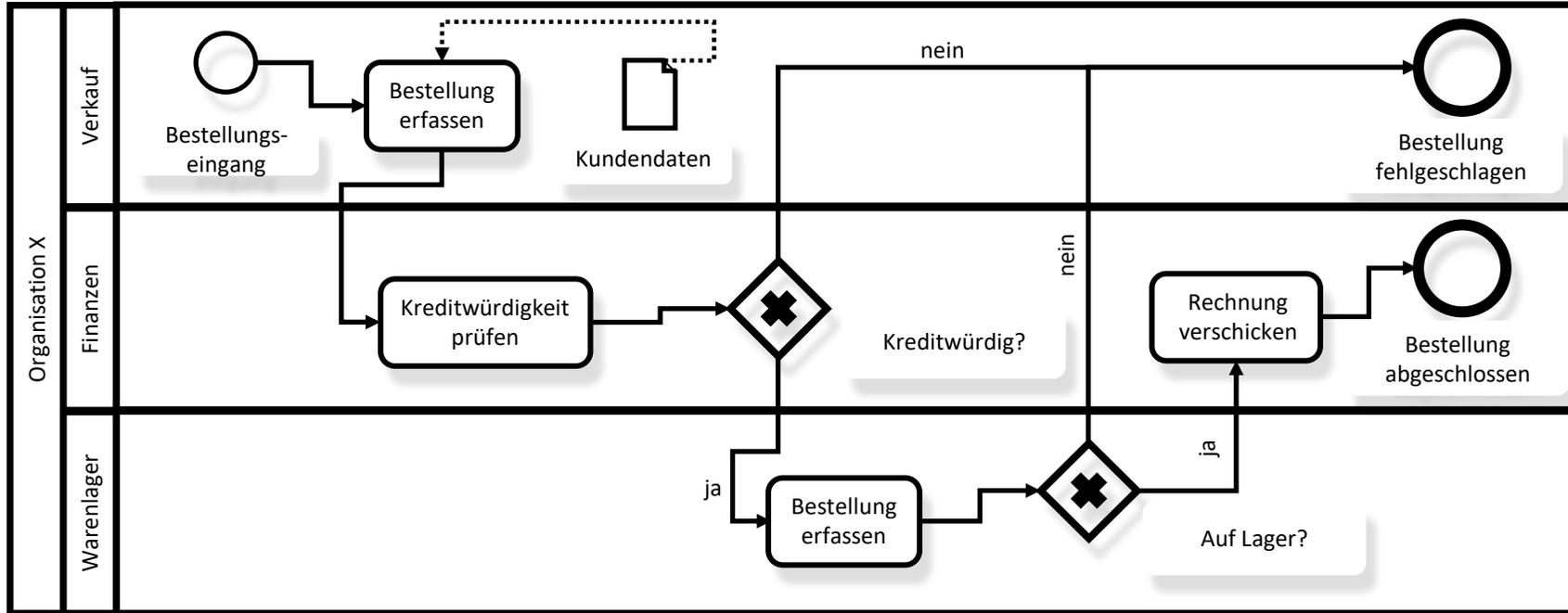


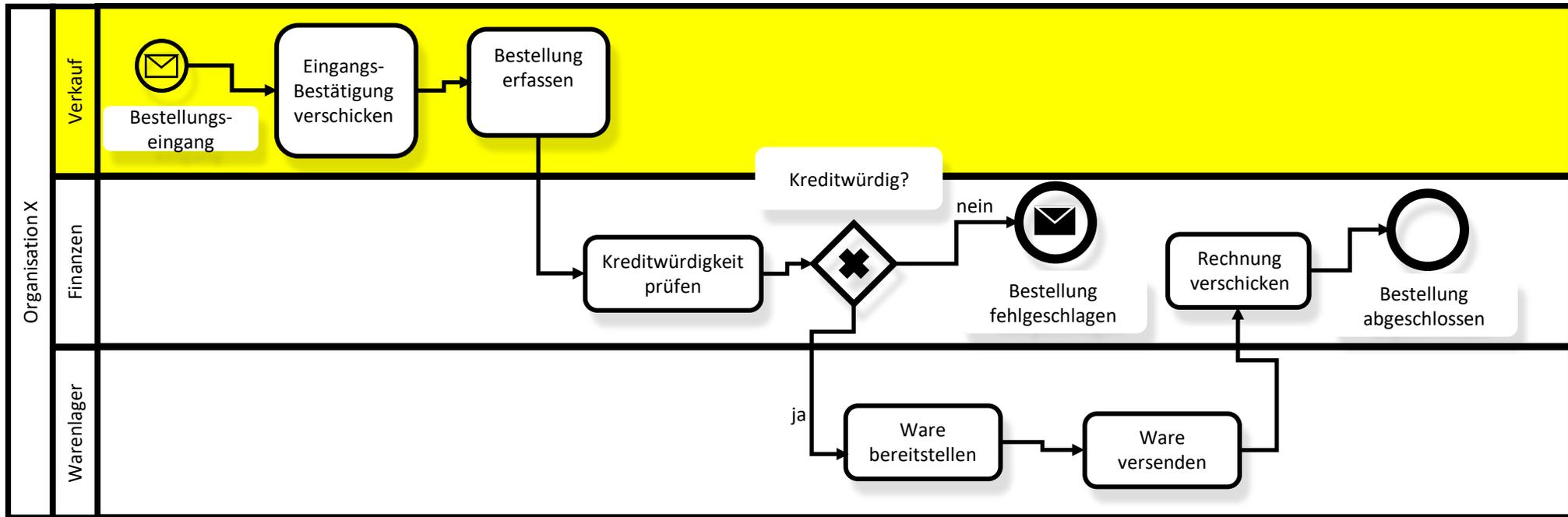
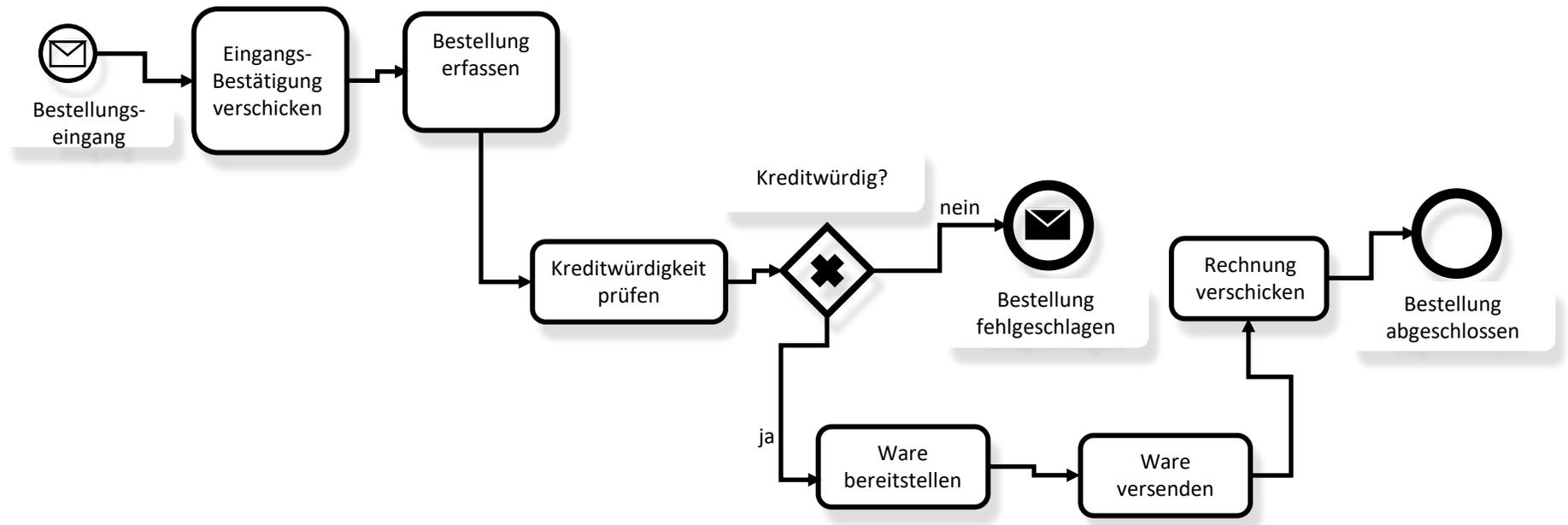


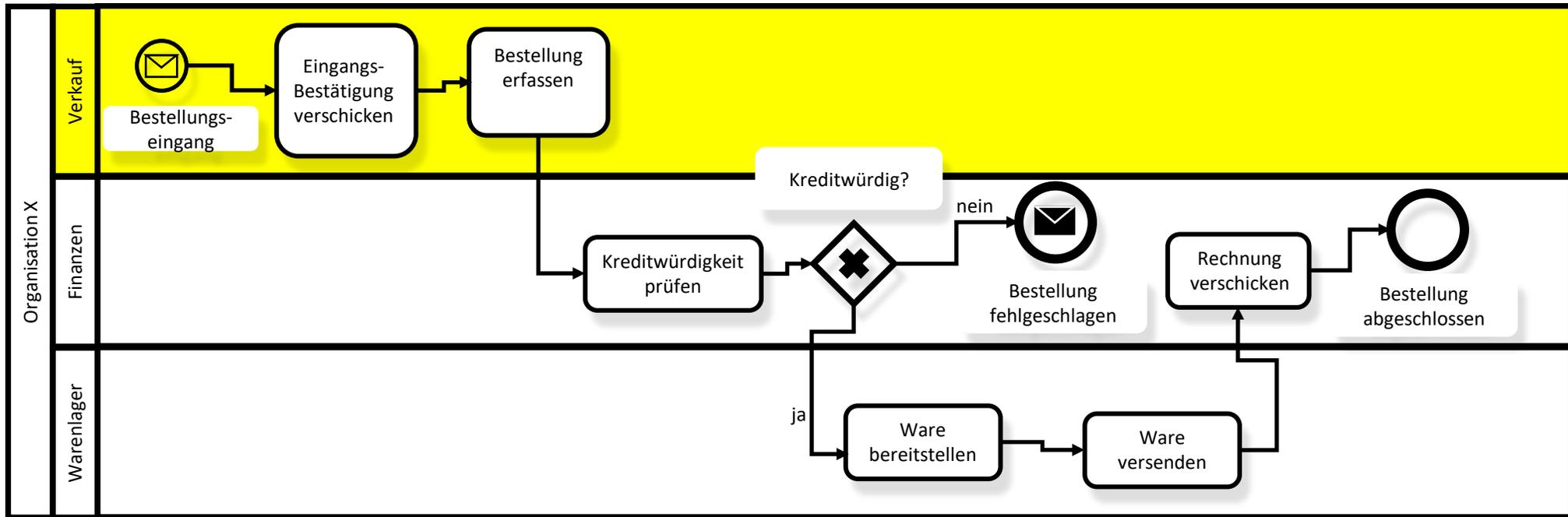
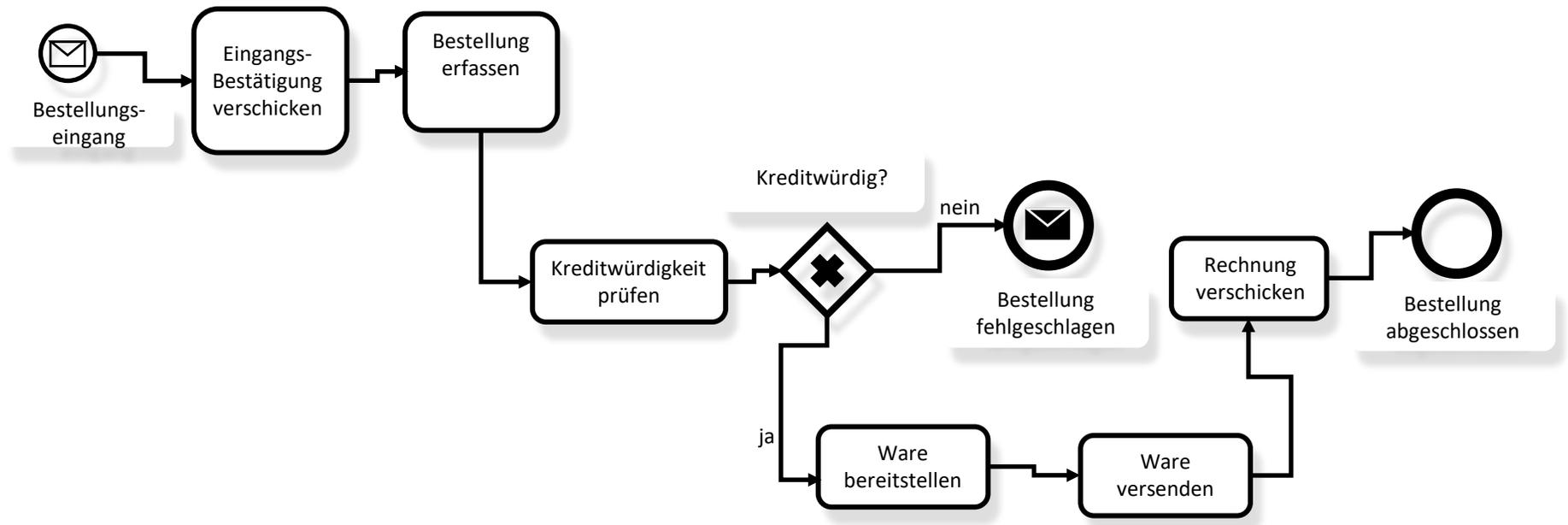


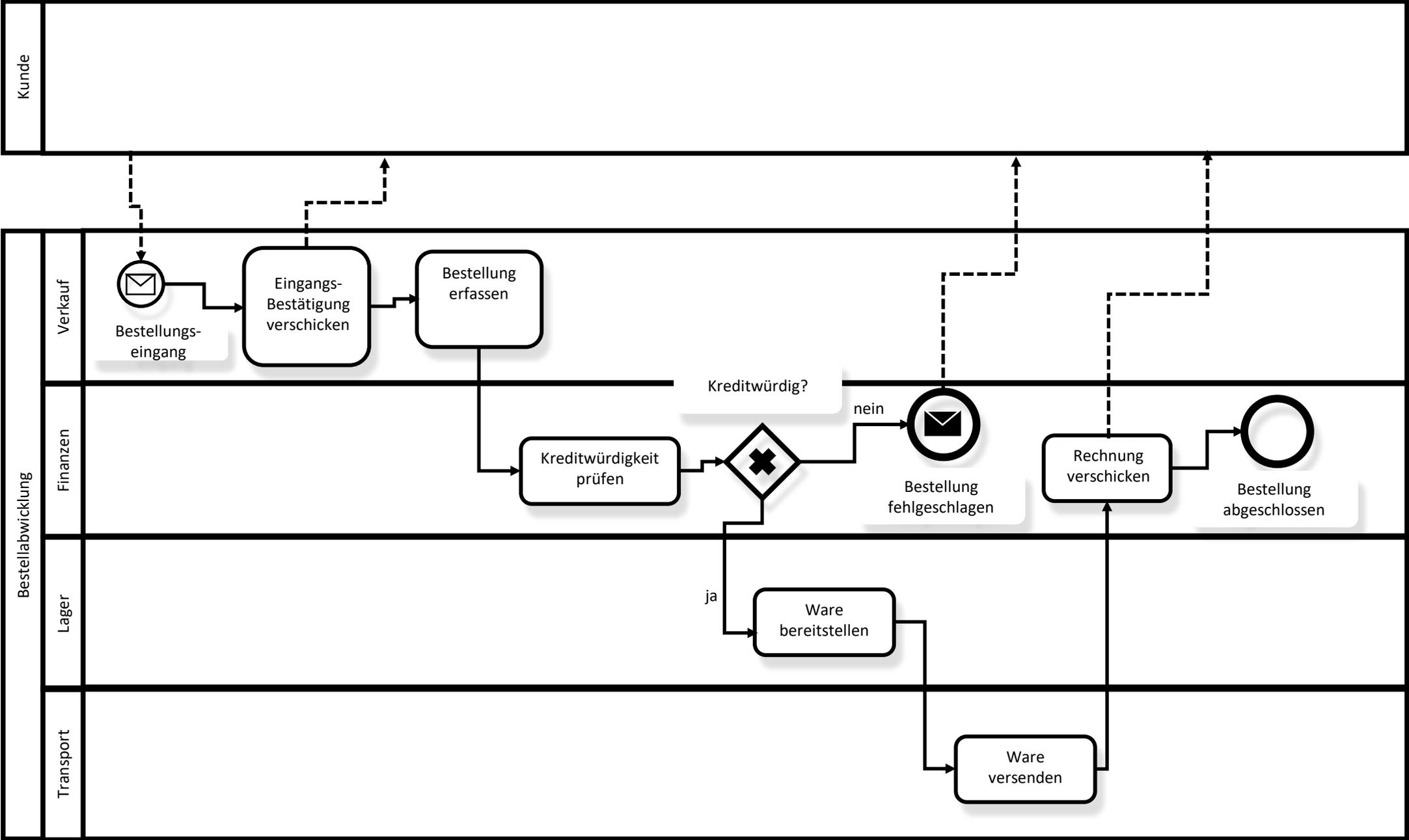






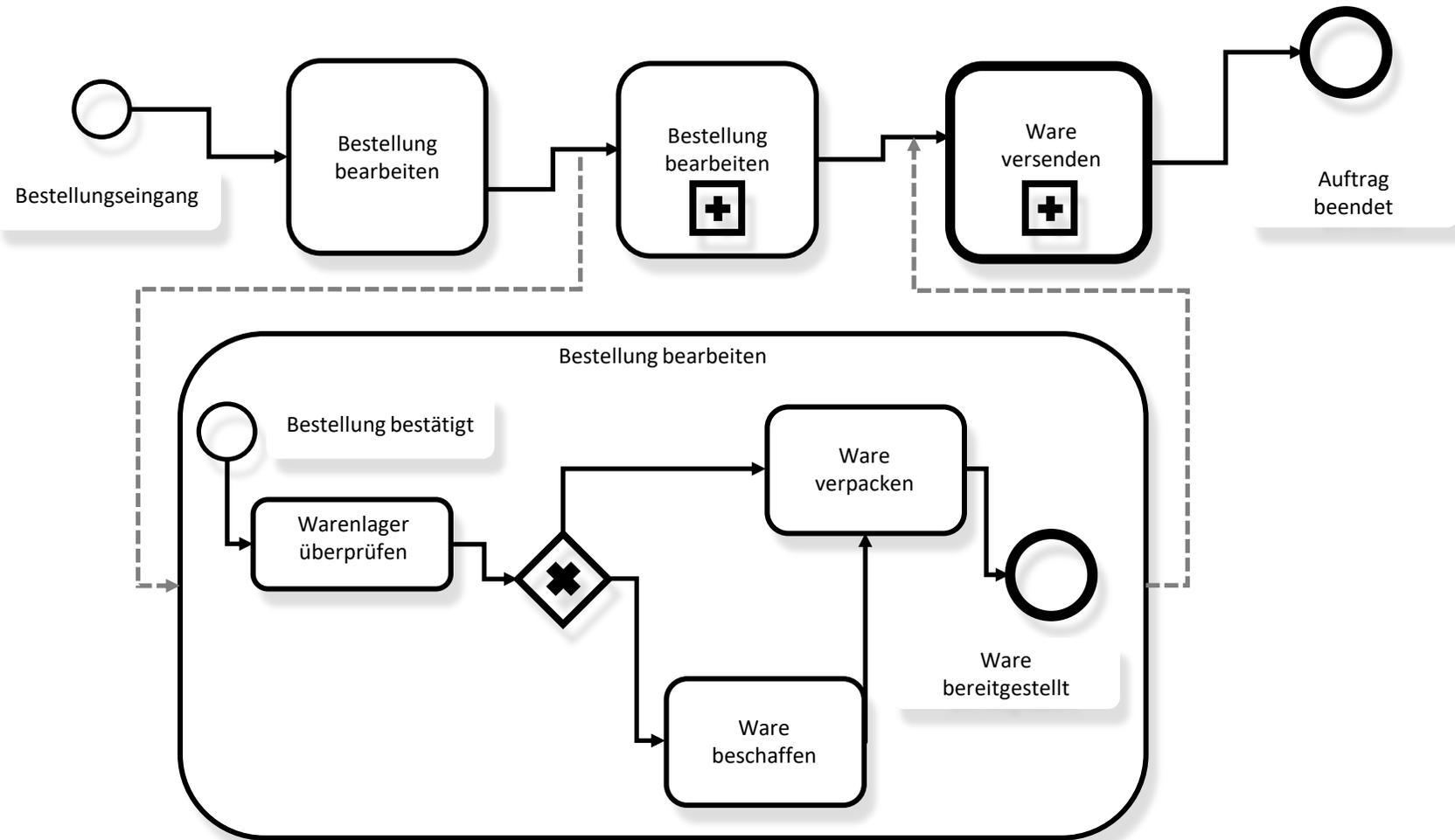


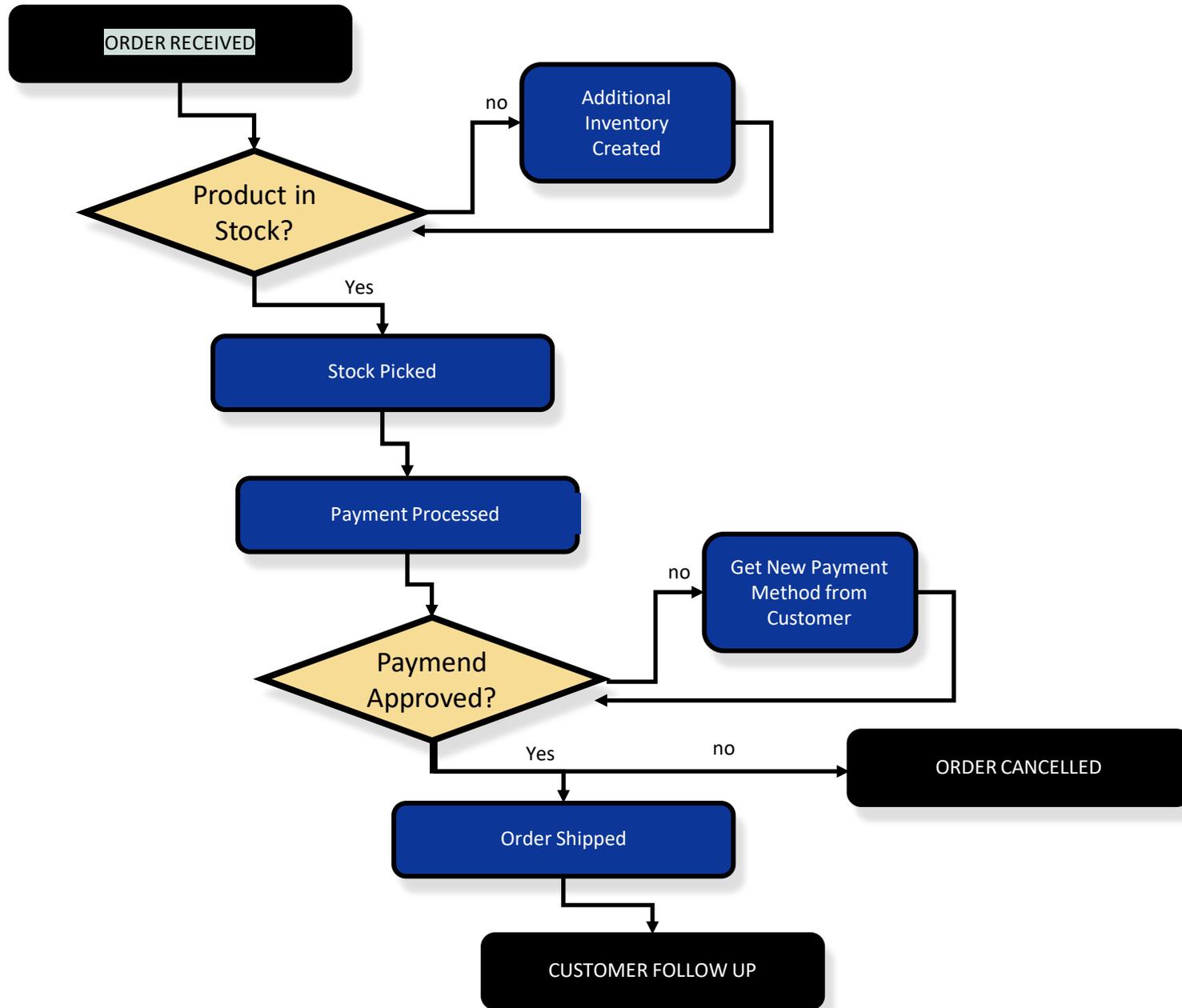


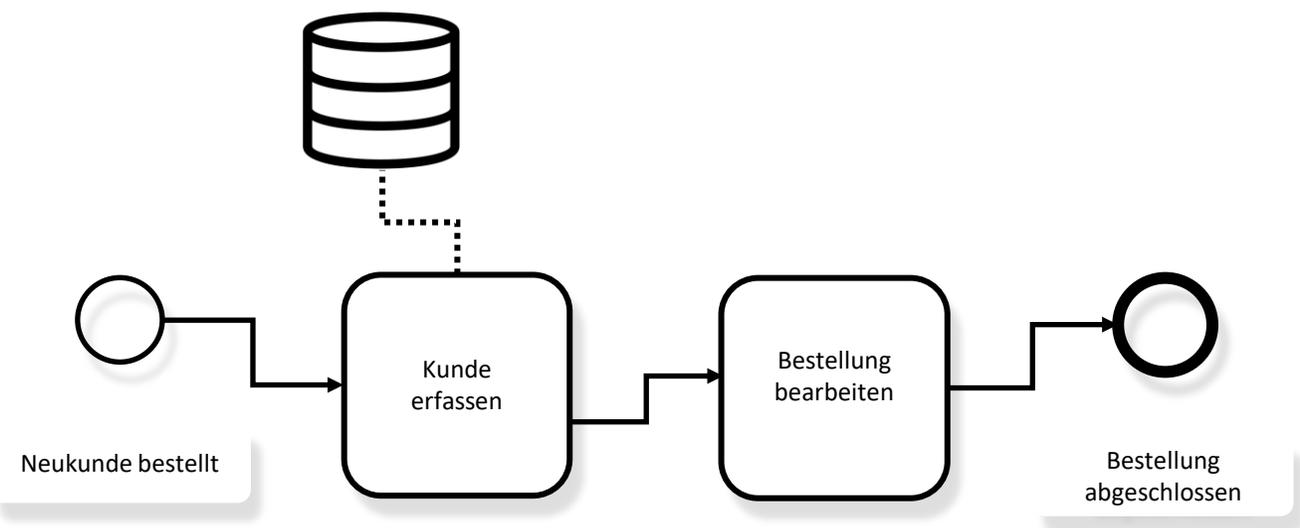
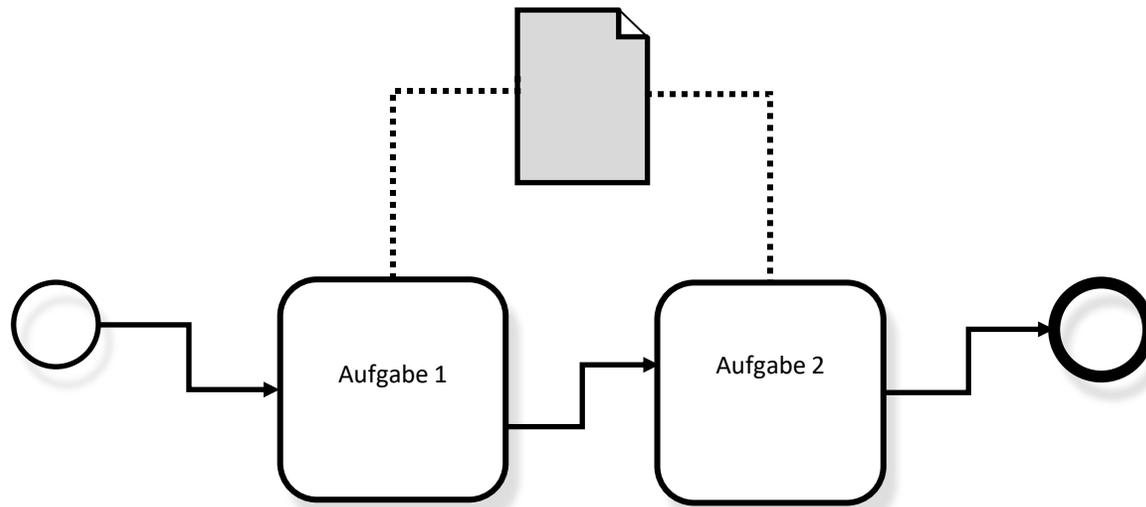


Bestellabwicklung

Pool A	
Lane 1	Lane 2





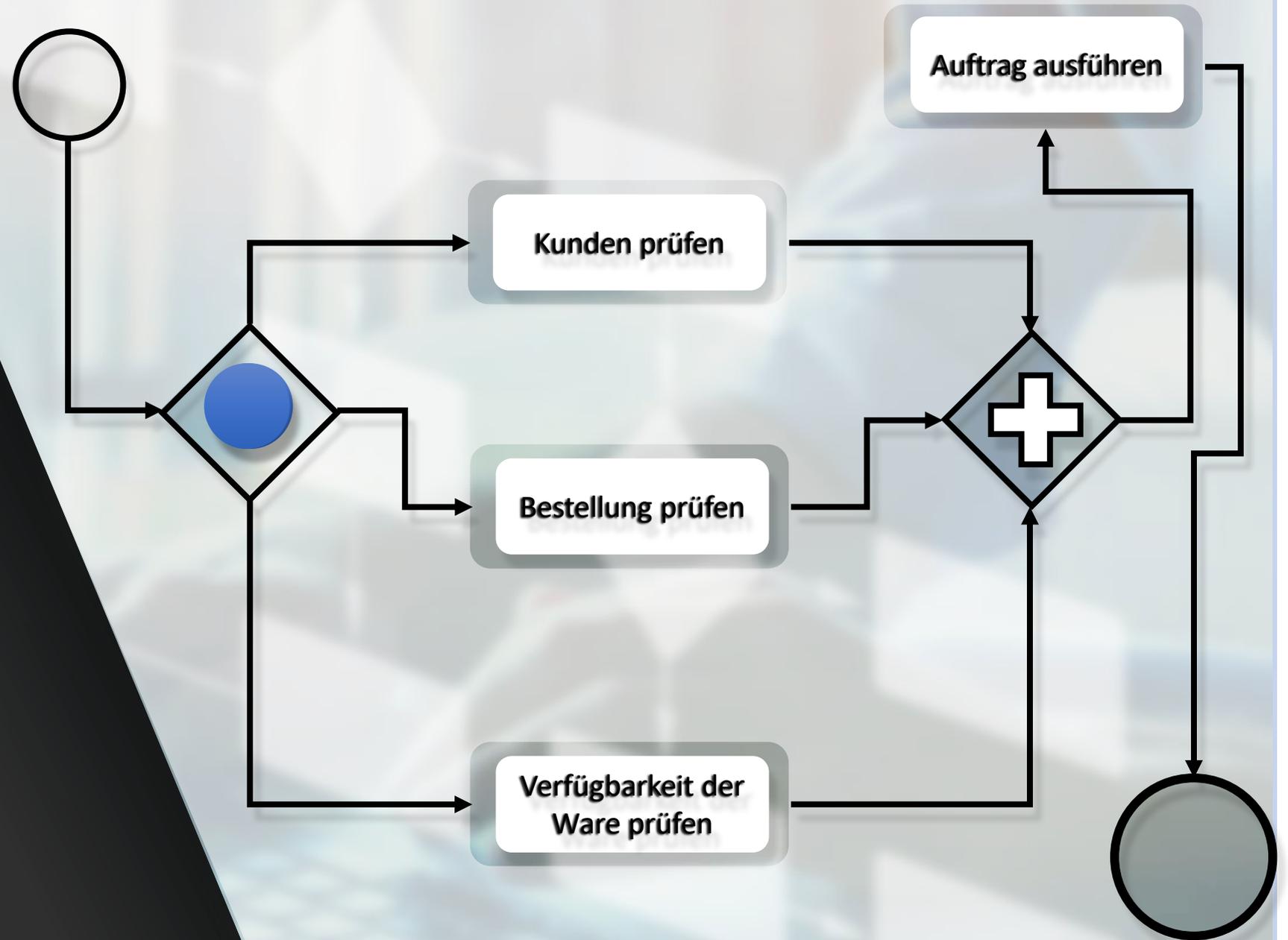


Gliederung

- Einführung zu BPMN
- Notationen
- Beispiele



Paralleles Gateway \ & - Gateway



Business

Process

Model

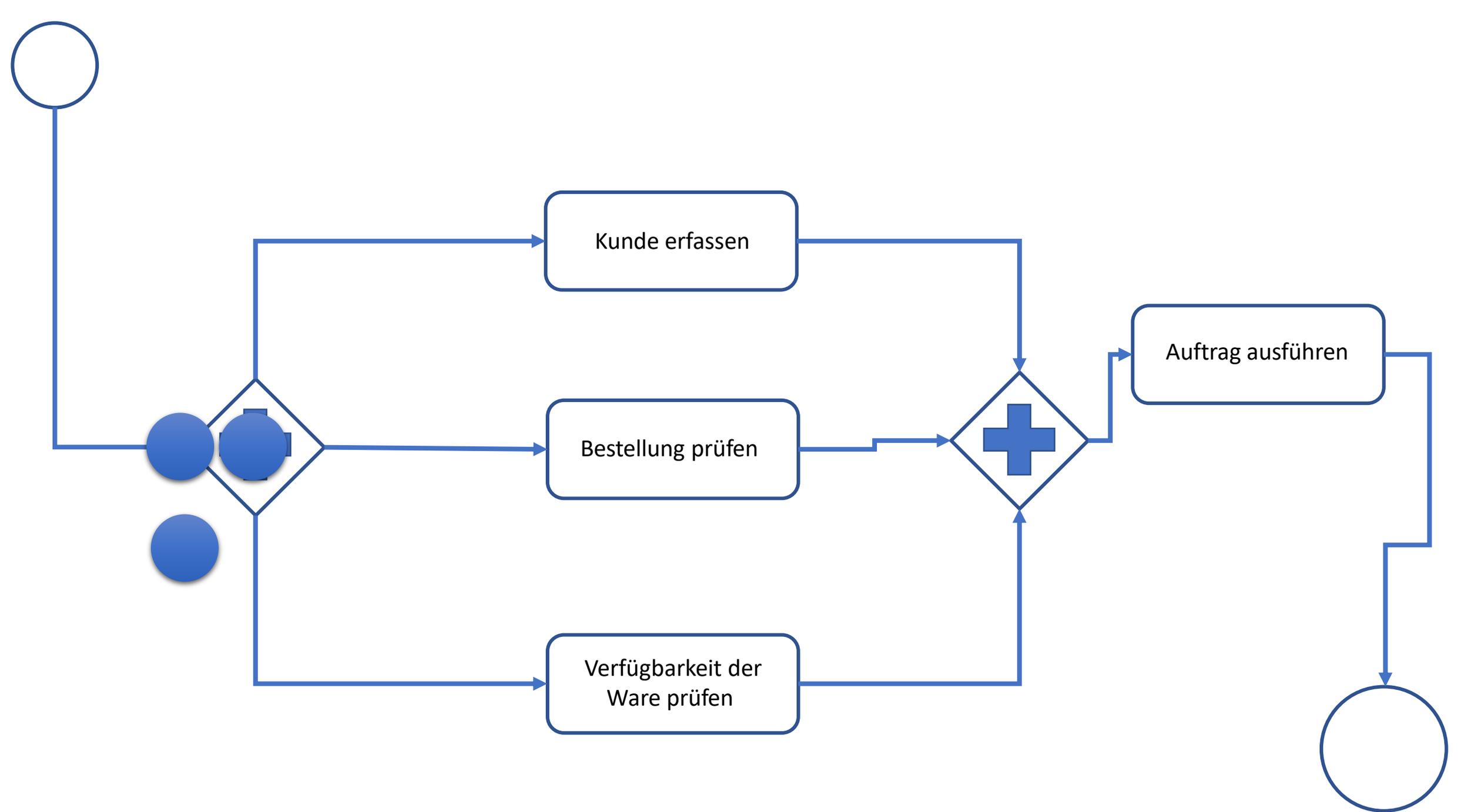
Notation

Sara Franza

Elena Marei Witecka

Daniel Mühlbayer





BePalm

The image features the word "BePalm" written in a light gray, cursive script. The letters are semi-transparent, allowing a background image to be seen through them. The background consists of a dense forest of tall, thin trees, likely palm trees, under a clear sky. Several birds are shown in flight, scattered across the sky. The overall aesthetic is clean and modern, with a focus on nature and typography.