

DEEL 7

USE CASES



CHURN DETECTION



EMAIL TRIAGE



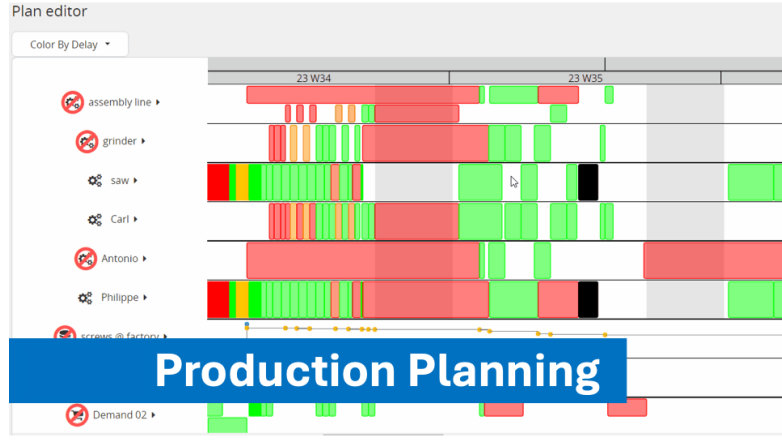
FLOATING WASTE



FRAUD DETECTION



RETAIL



Production Planning



Stimulate Innovation



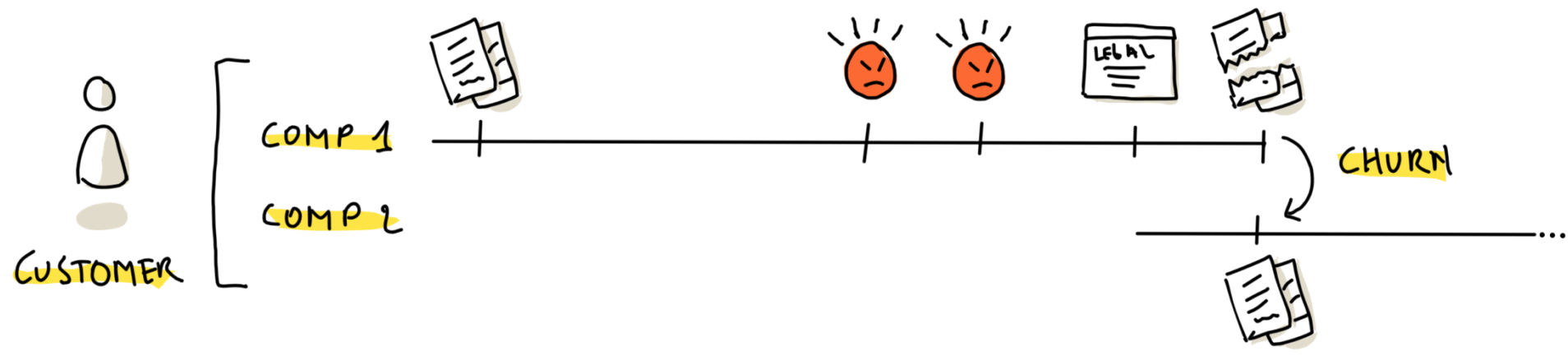
TUG BOAT PREDICTION

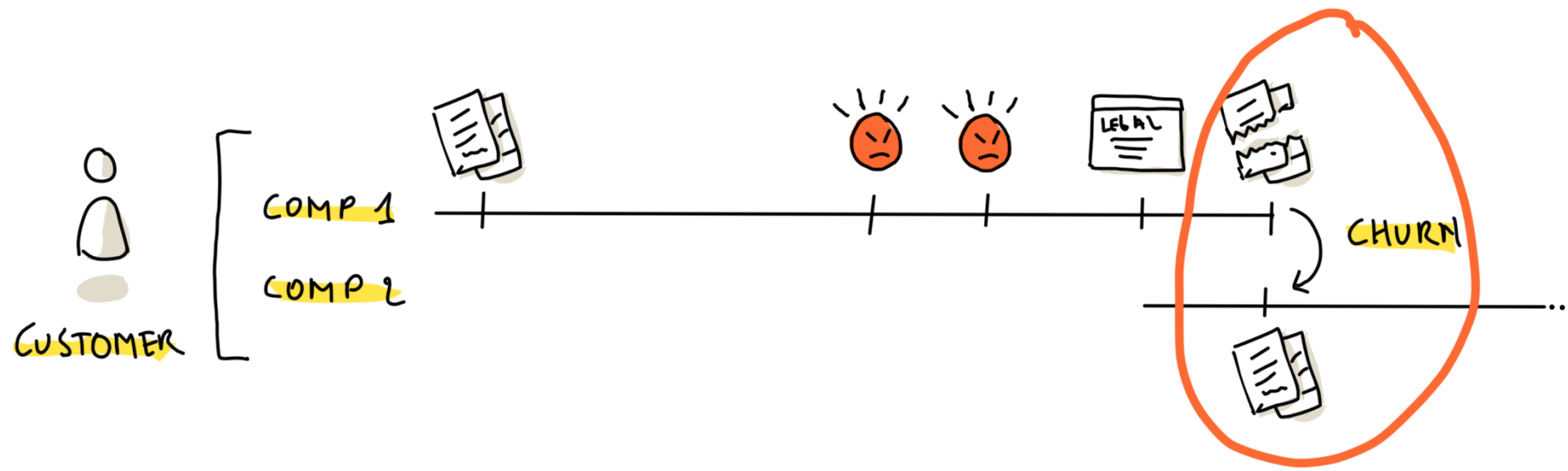


APICA

The image features two identical glass fishbowls on a light-colored surface. The bowl on the left is filled with water and has a goldfish jumping out, creating a large splash of water droplets and bubbles. The bowl on the right is empty, with only a few small bubbles visible in the water. A blue banner with white text is positioned at the bottom of the image.

CHURN DETECTION

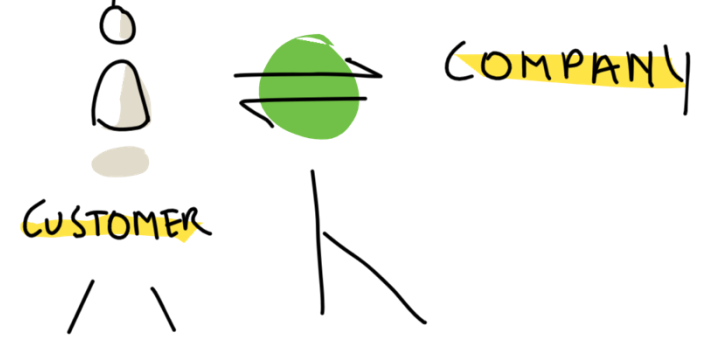




**Q: Can we detect Churn
before the customer effectively churns?**

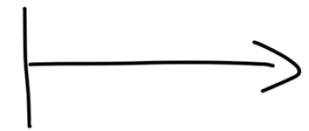


AUTO DISCOUNT

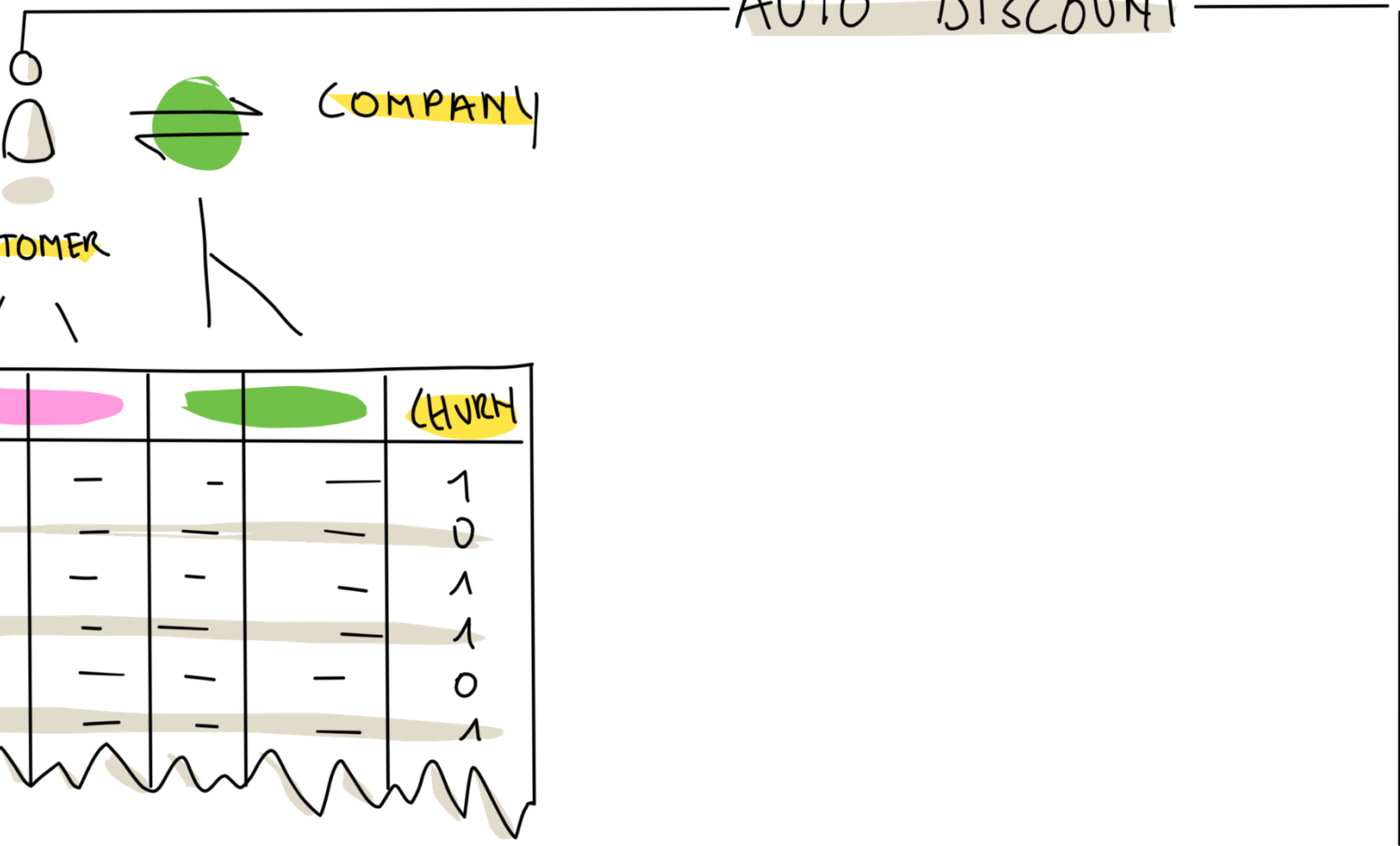


				CHURN
-	-	-	-	1
-	-	-	-	0
-	-	-	-	1
-	-	-	-	1
-	-	-	-	0
-	-	-	-	1

$$f(\text{pink}, \text{green}) = \% \text{ CHANGE TO CHURN}$$

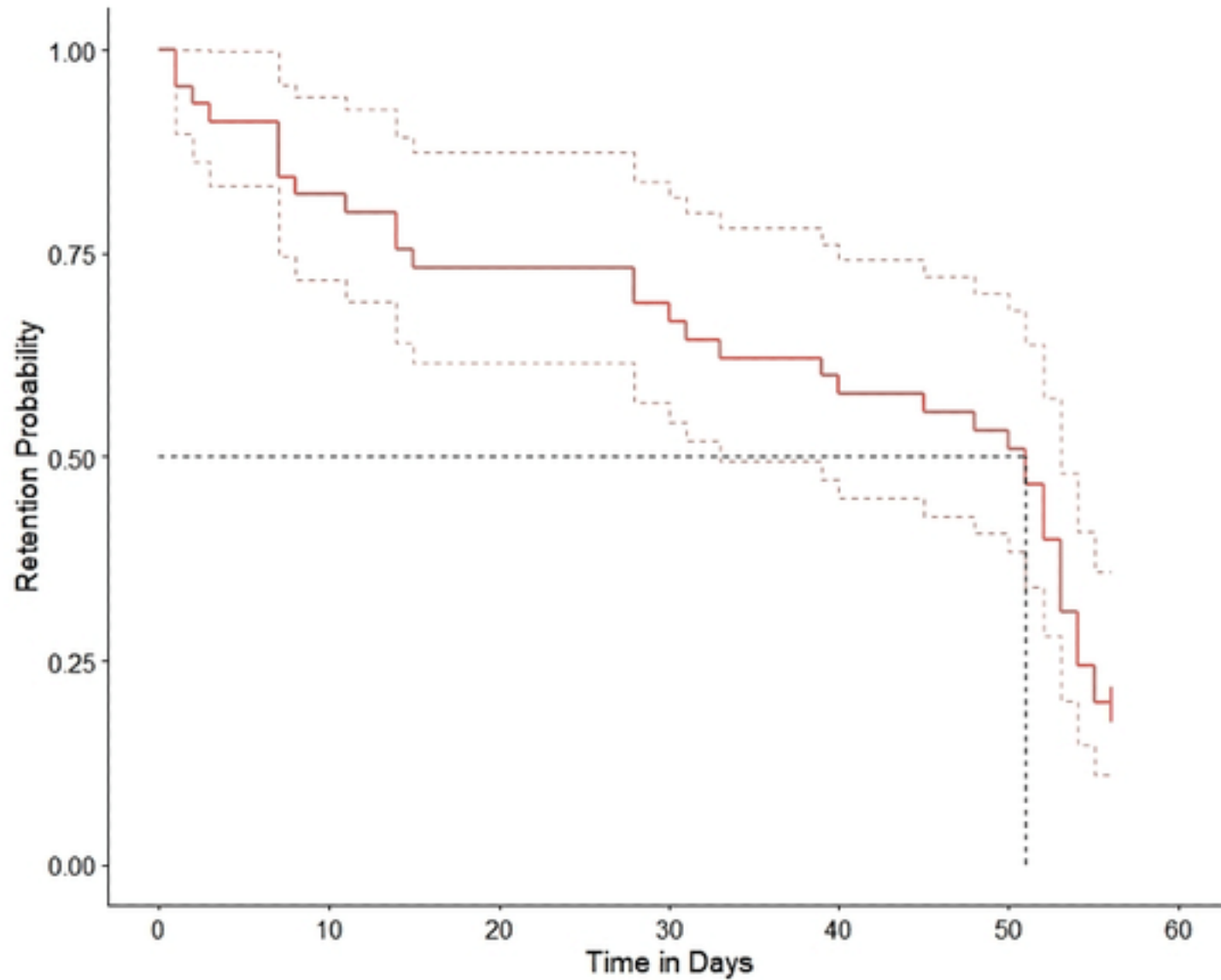


> 80% & VALUE > X



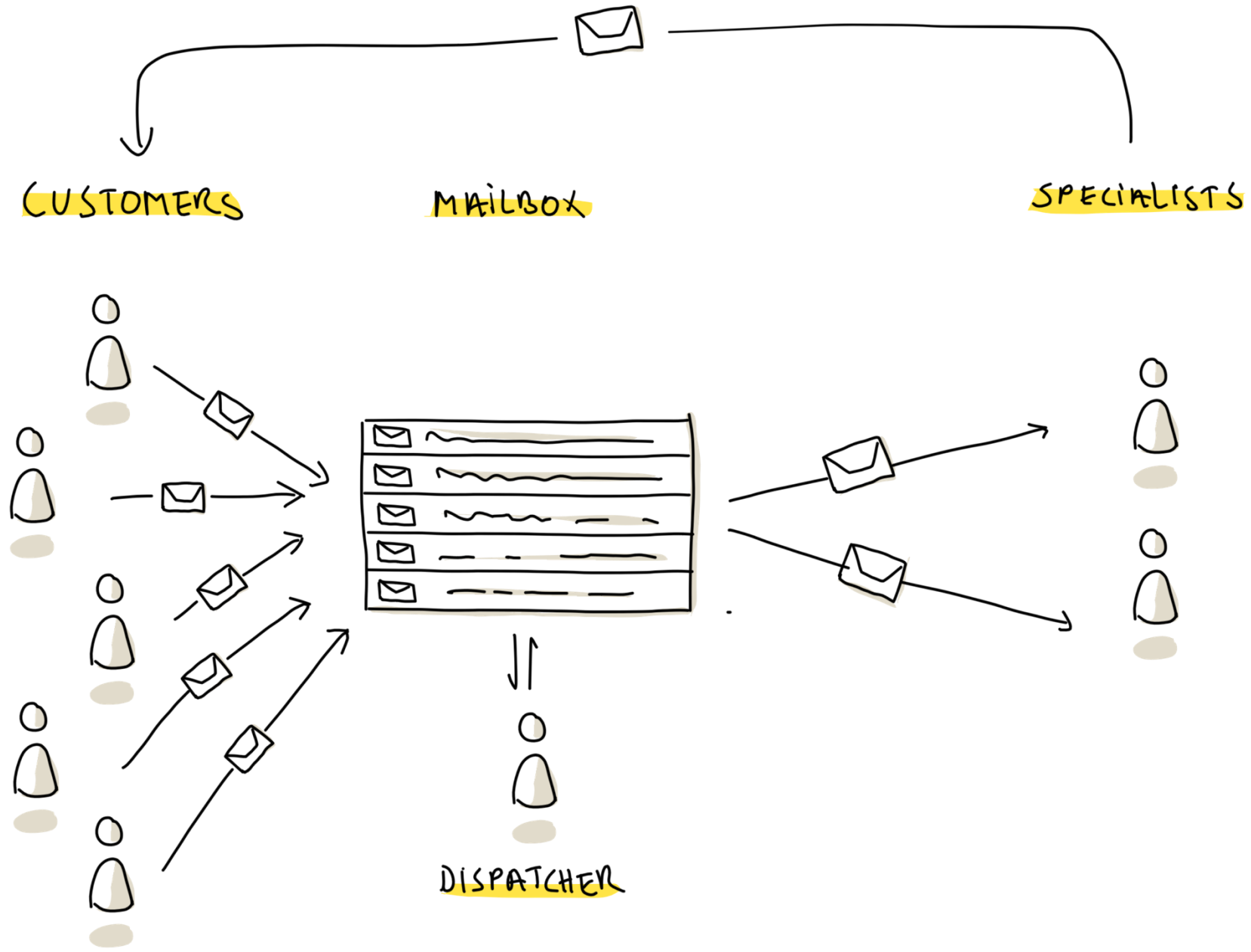


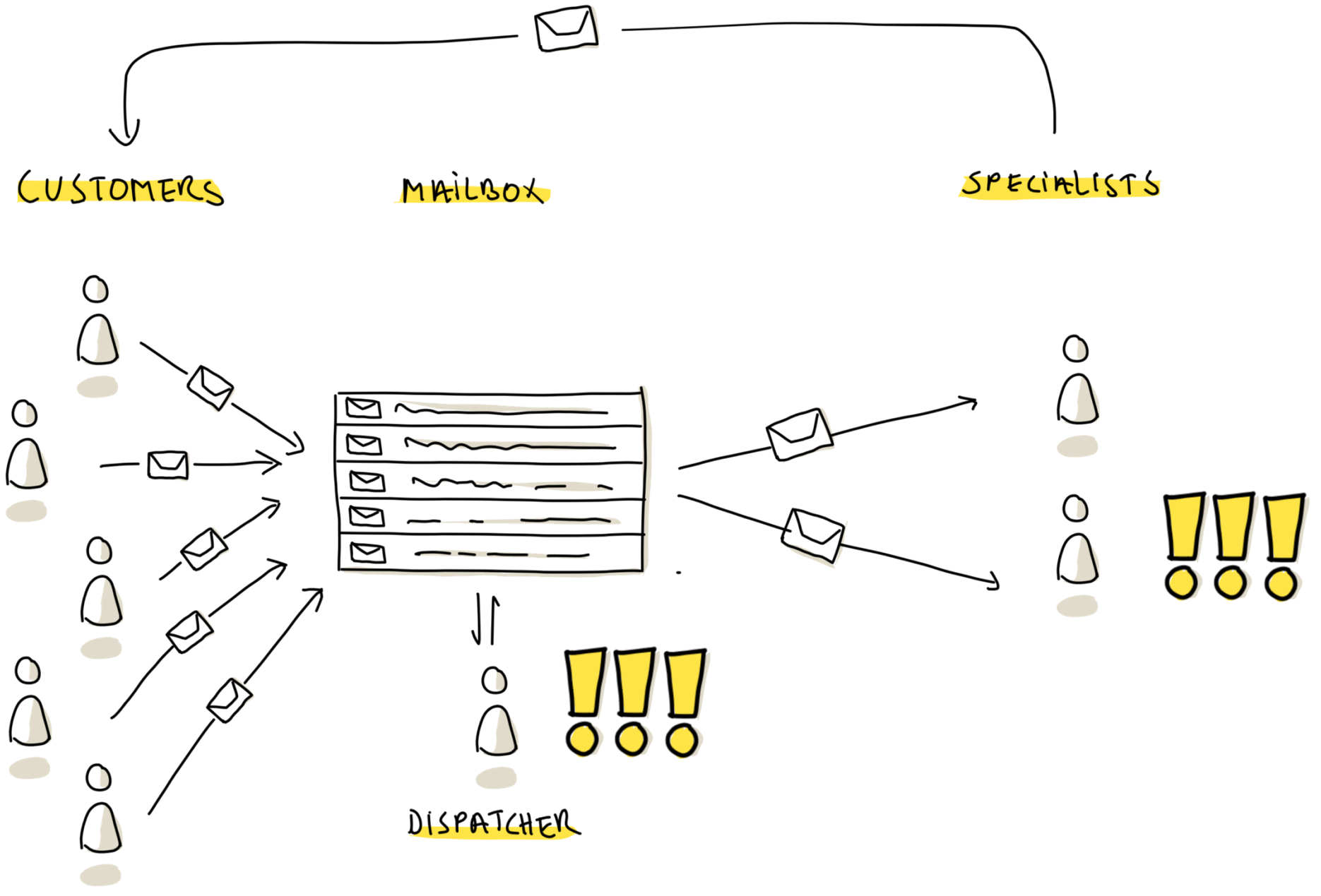
Survival Analysis (Customer Retention)

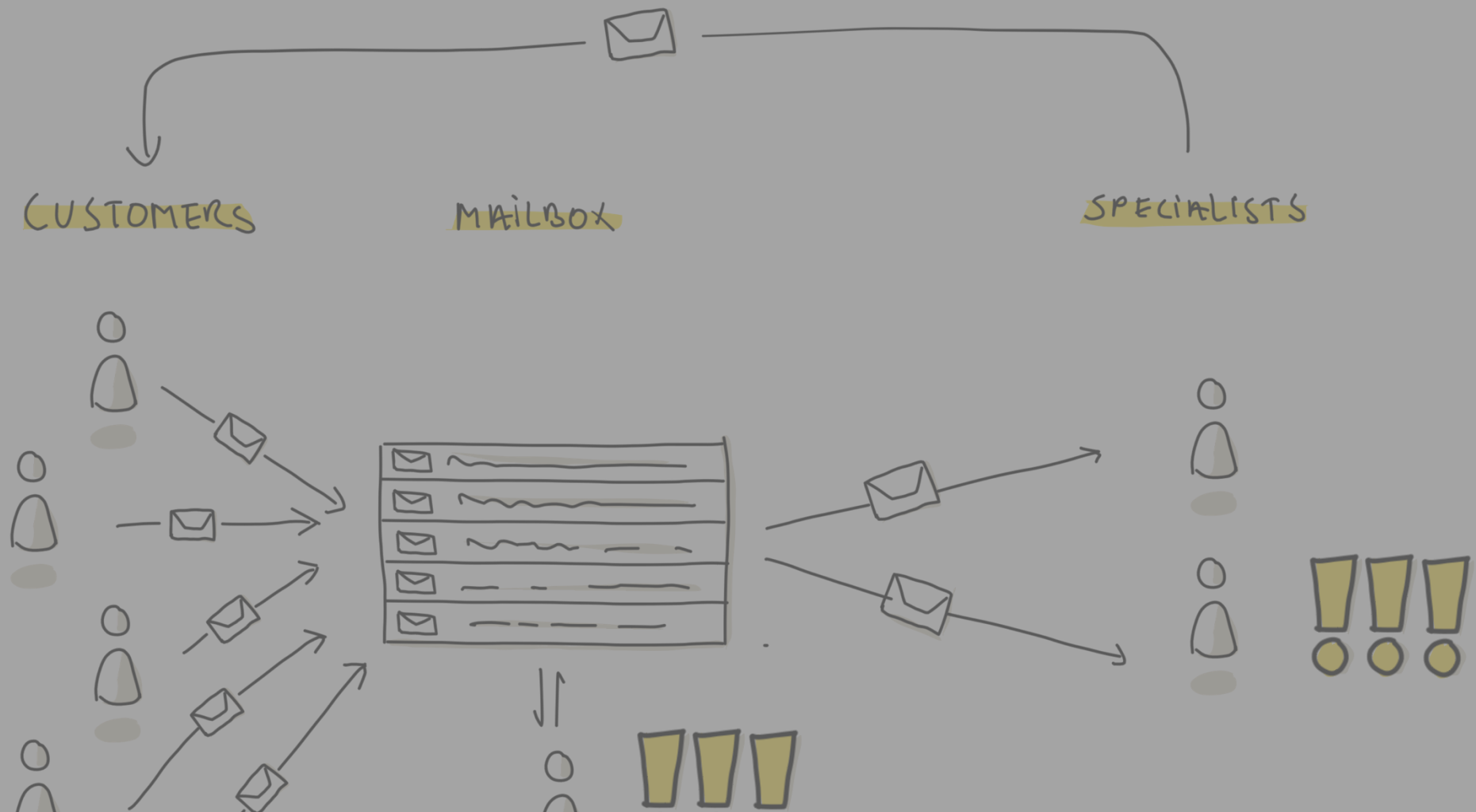




EMAIL TRIAGE



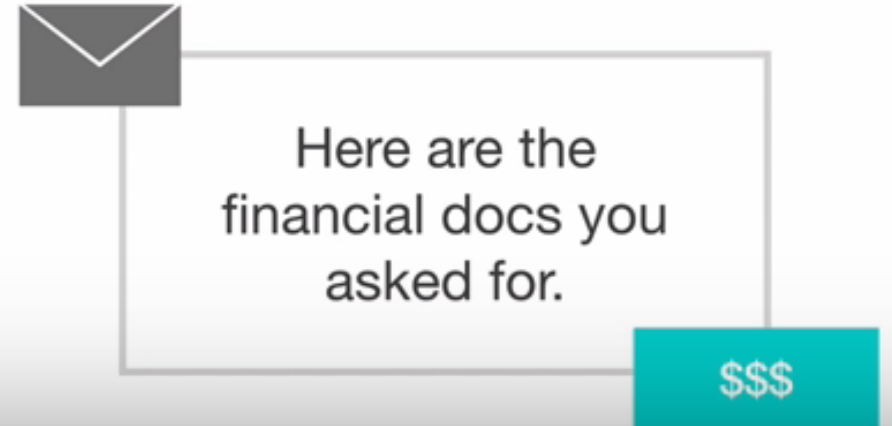
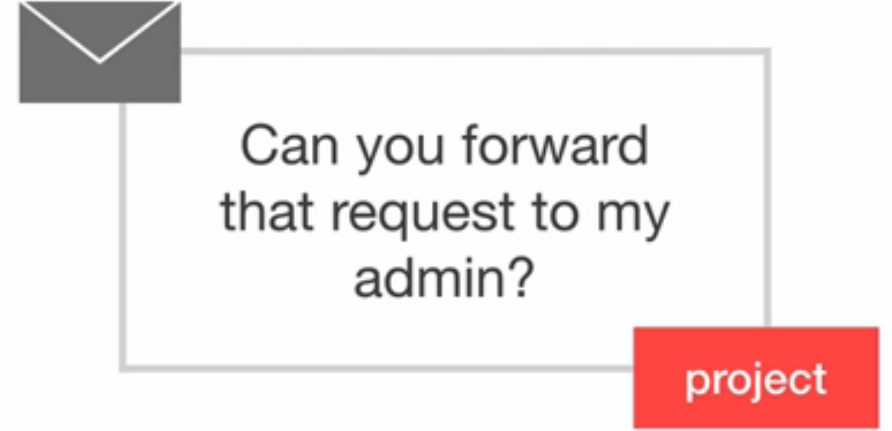
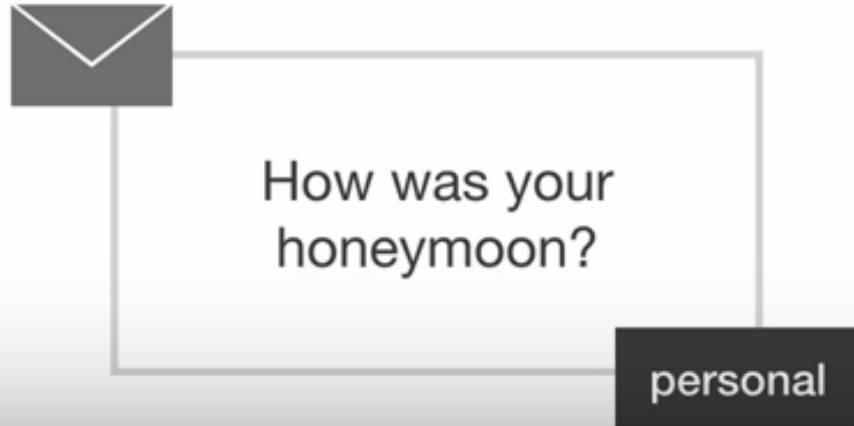
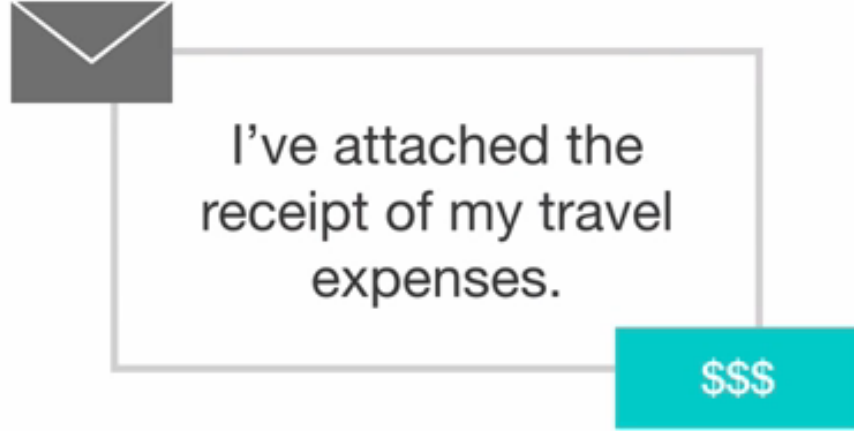
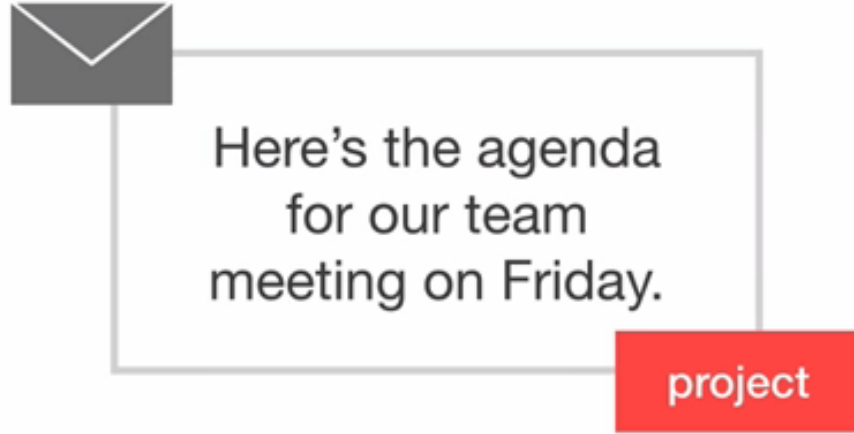


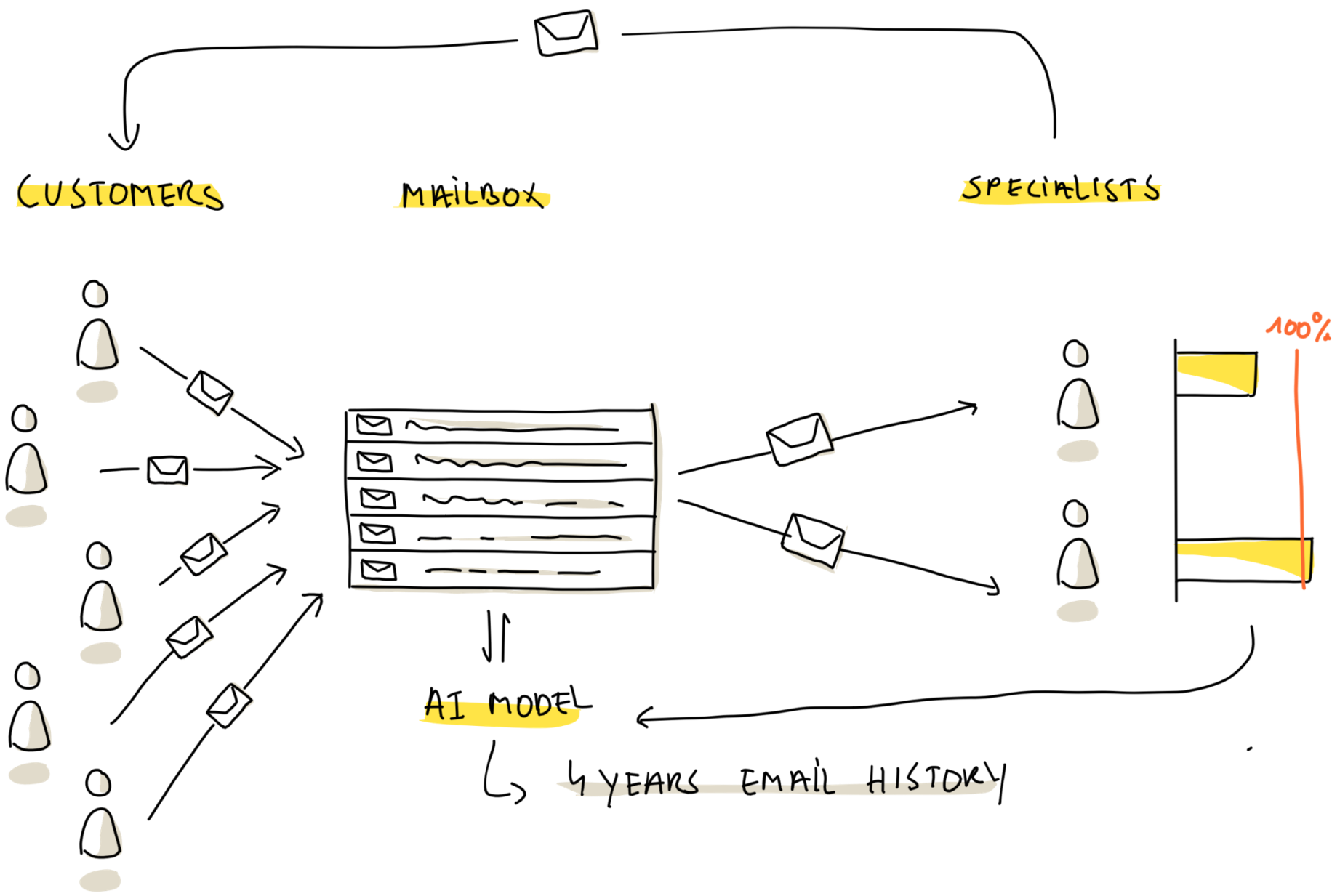


Q: Can we run this process more Efficiently



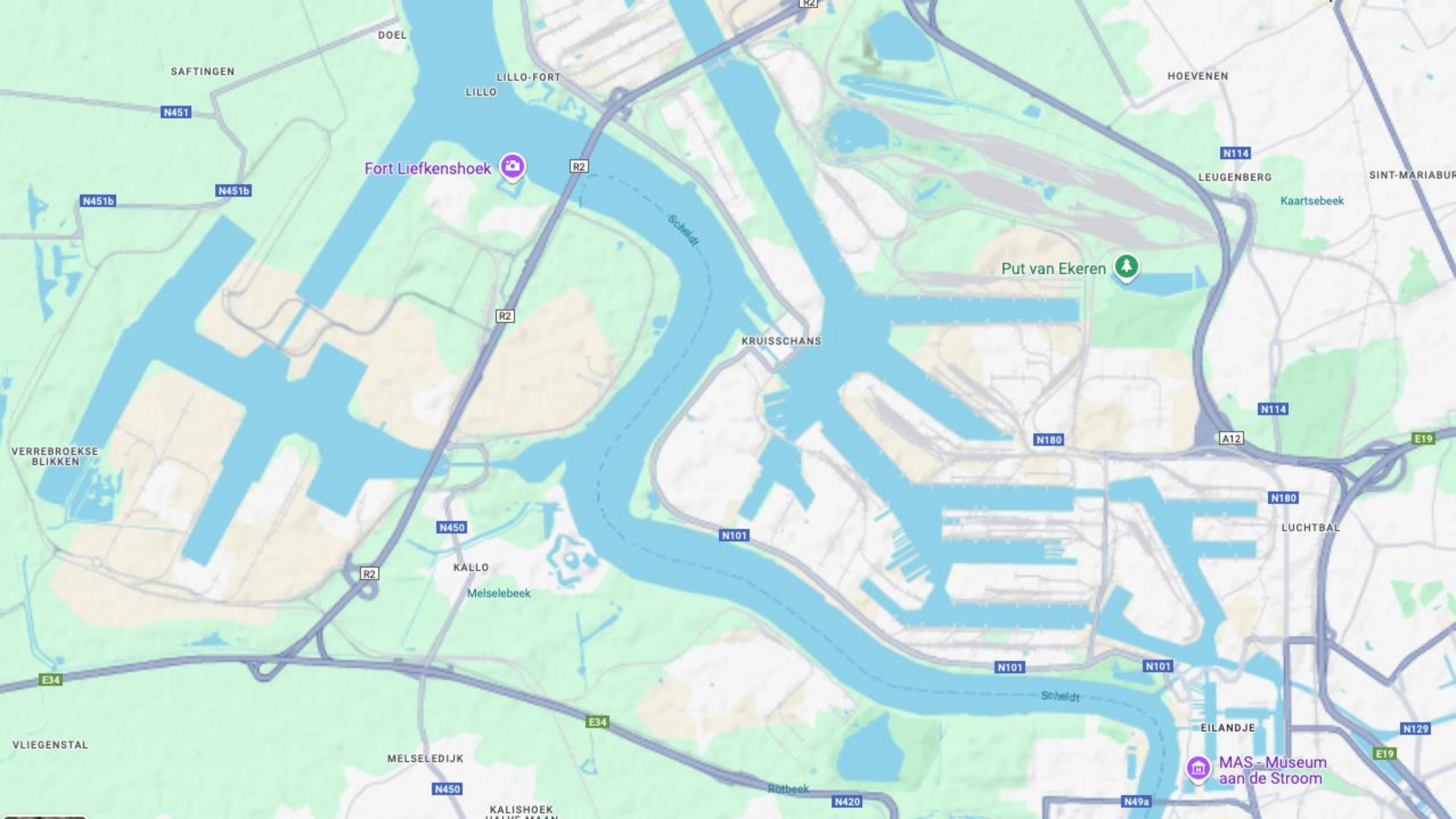
Topic Modeling







FLOATING WASTE



Fort Liefkenshoek

Put van Ekeren

MAS - Museum aan de Stroom



Fort Liefkenshoek

Put van Ekeren

MAS - Museum aan de Stroom

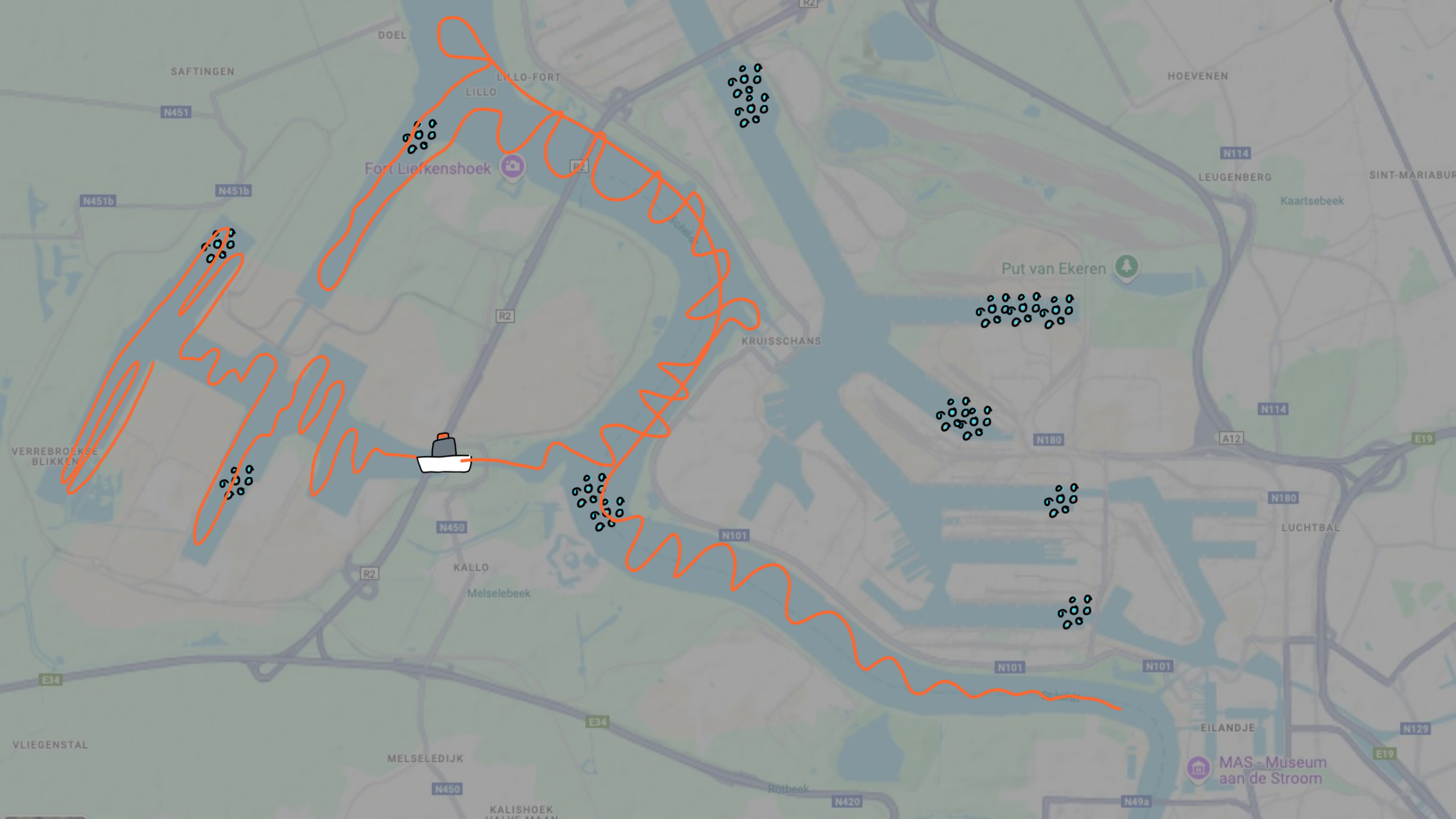


Fort Liefkenshoek

Put van Ekeren

MAS - Museum aan de Stroom

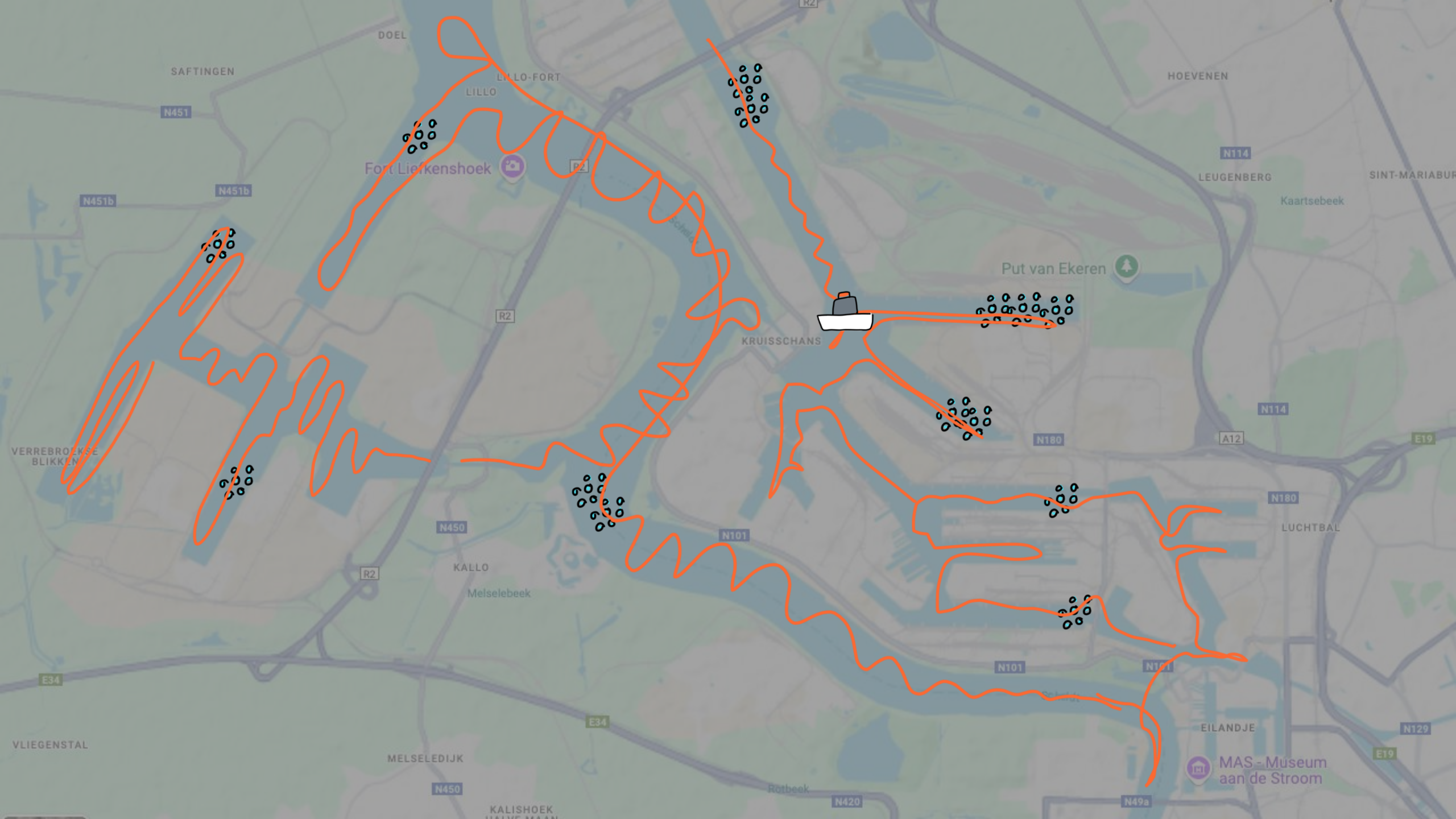




Fort Liefkenshoek

Put van Ekeren

MAS - Museum aan de Stroom

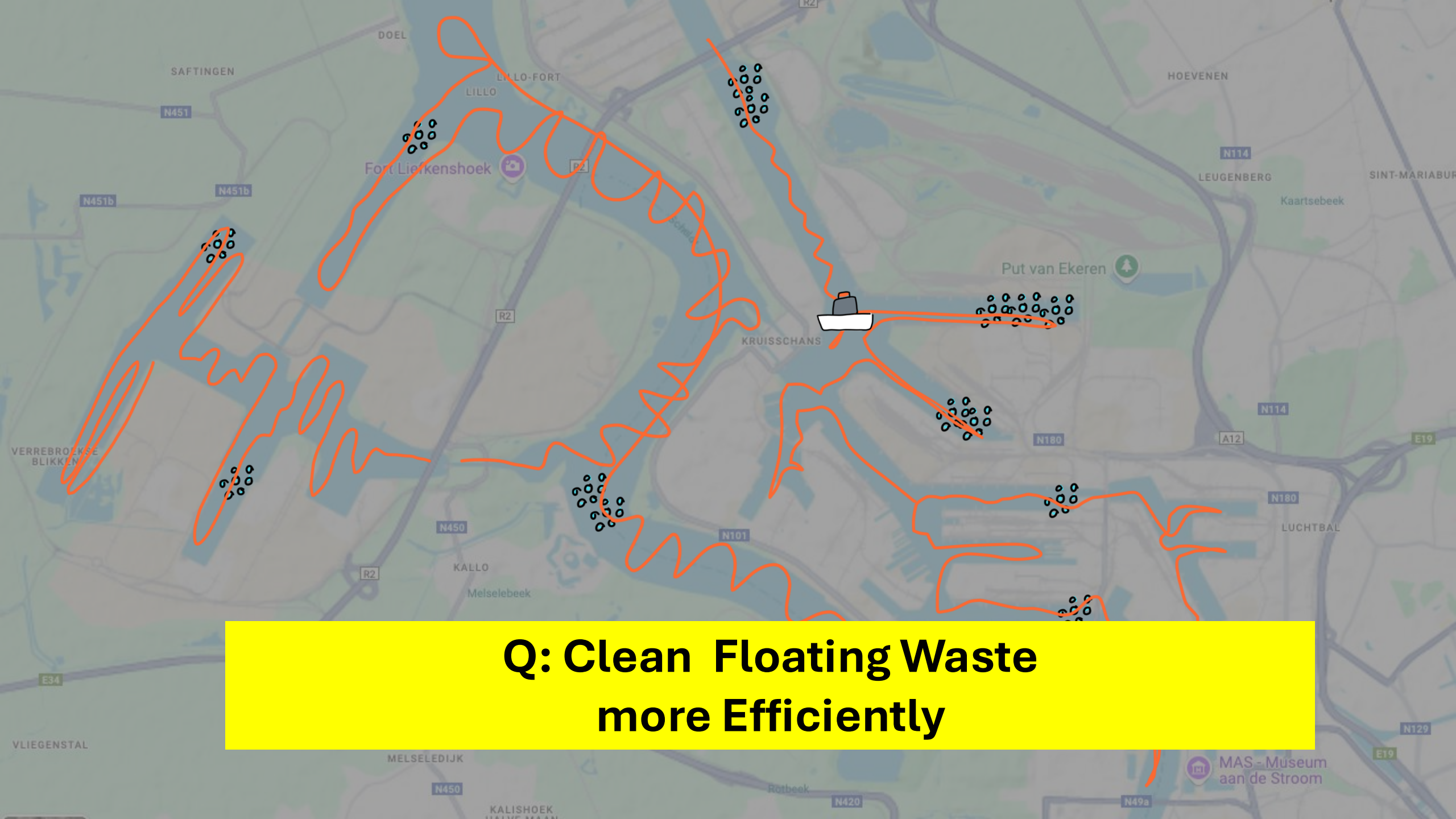


Fort Liefkenshoek

KRUISSCHANS

Put van Ekeren

MAS - Museum aan de Stroom



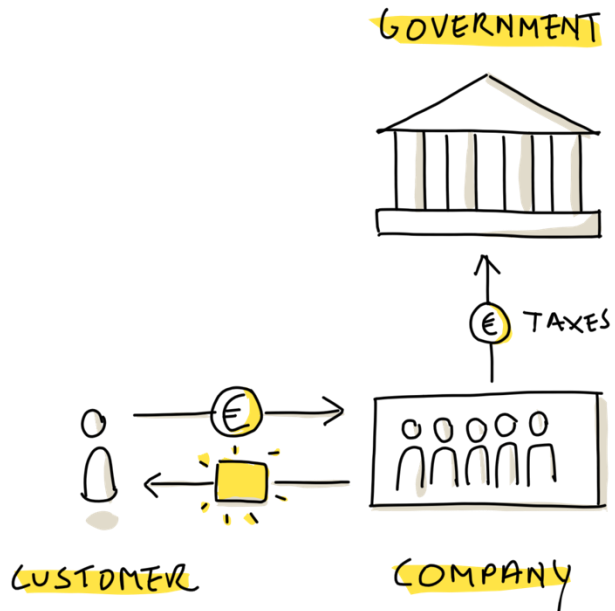
**Q: Clean Floating Waste
more Efficiently**



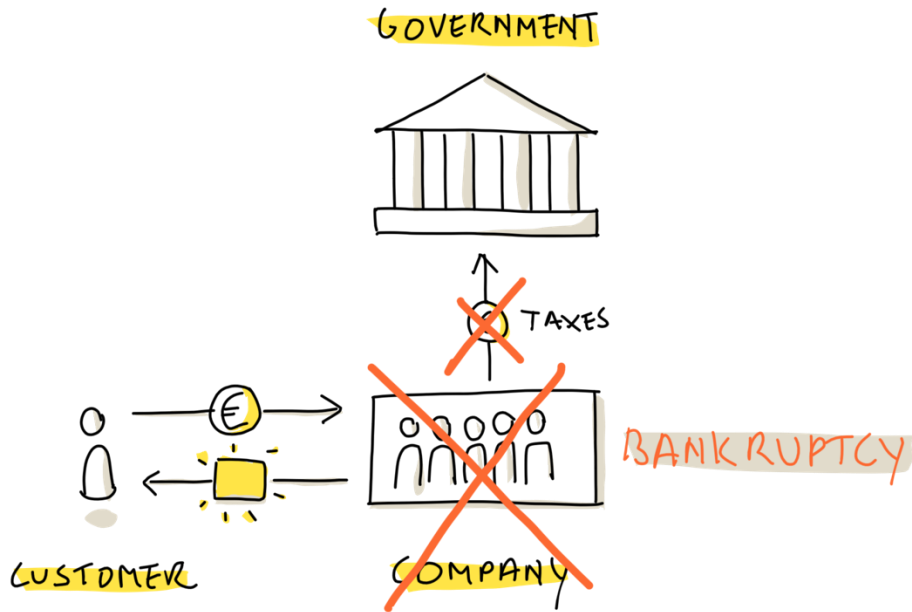
FRAUD DETECTION



NORMAL SITUATION

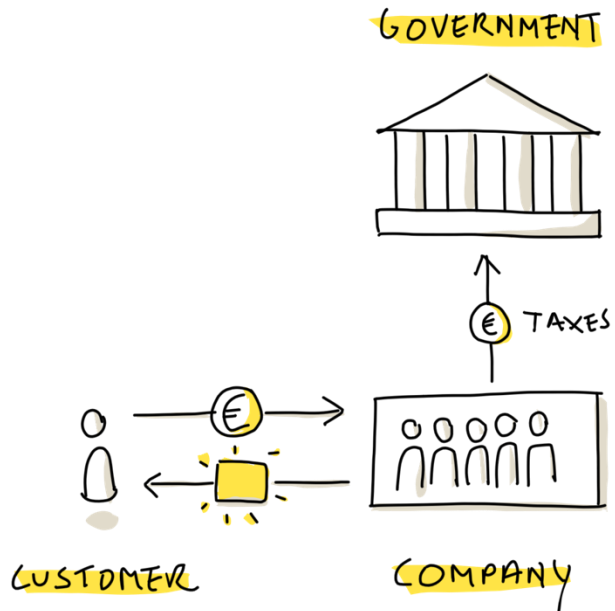


FRAUD

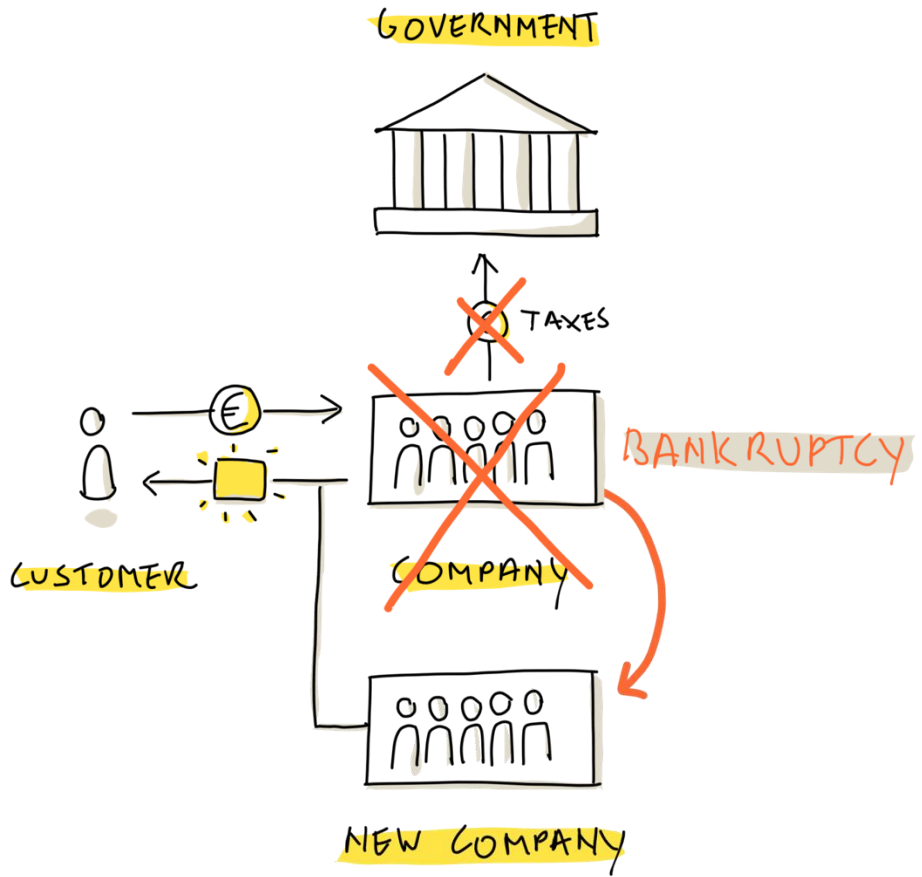




NORMAL SITUATION

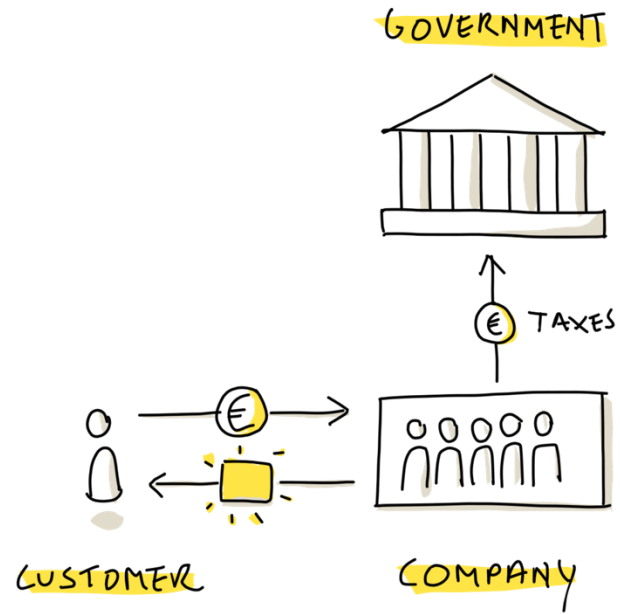


FRAUD

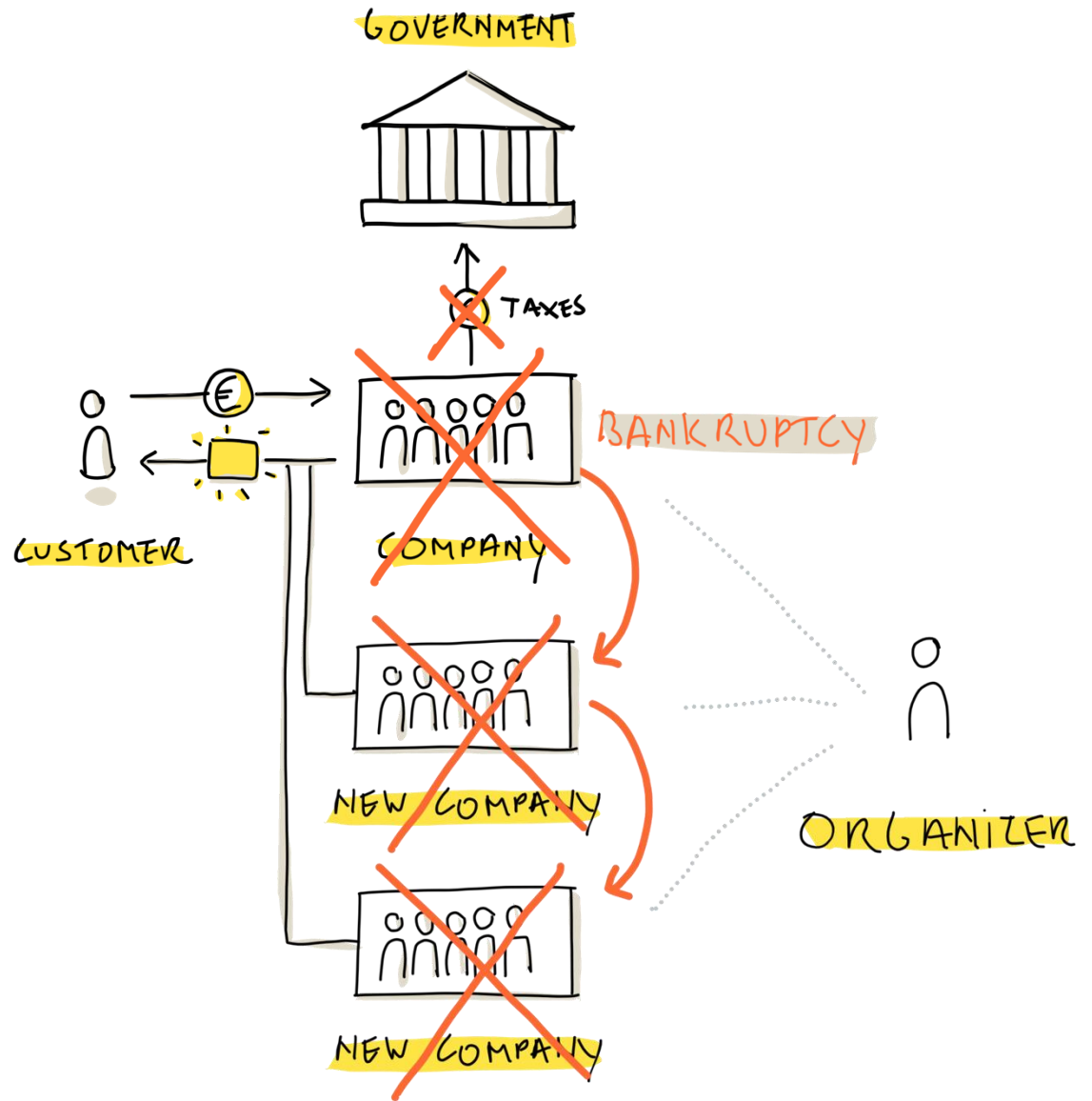




NORMAL SITUATION

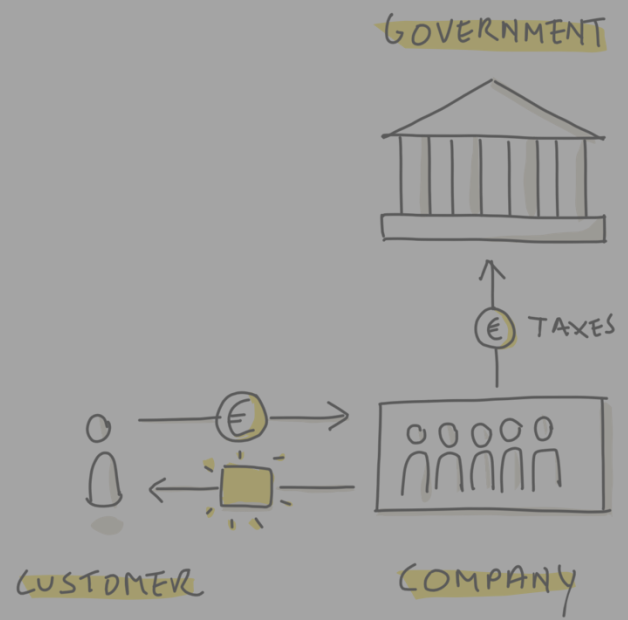


FRAUD

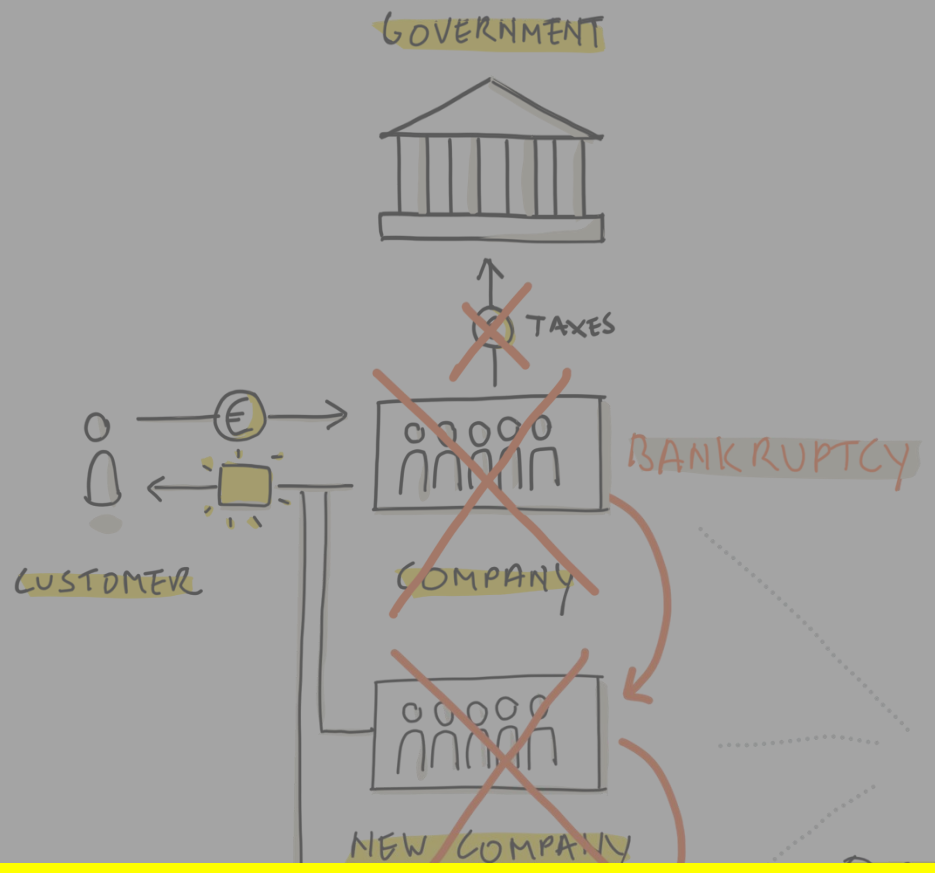




NORMAL SITUATION



FRAUD

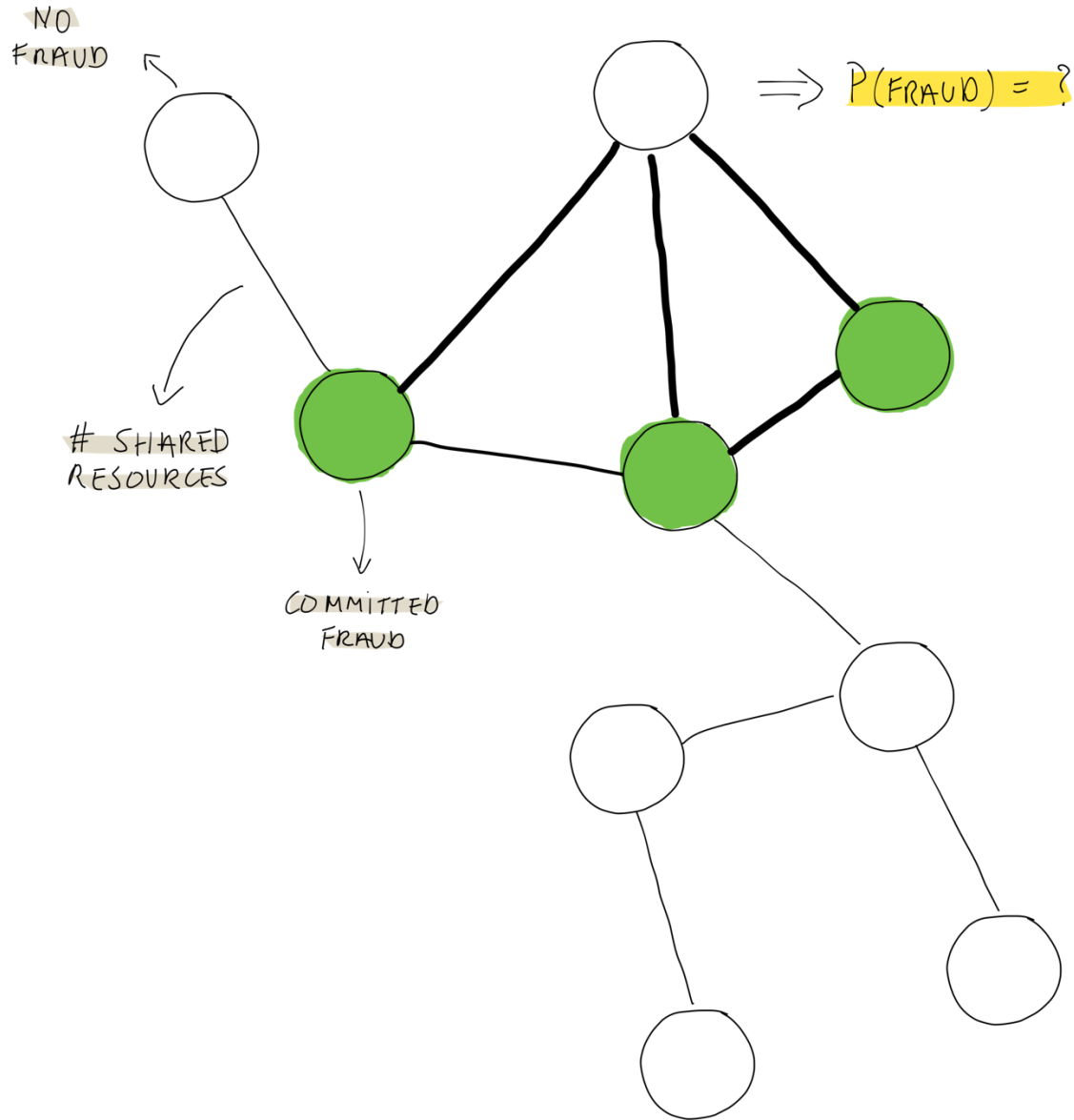


Q: Identify this Fraud Pattern Faster

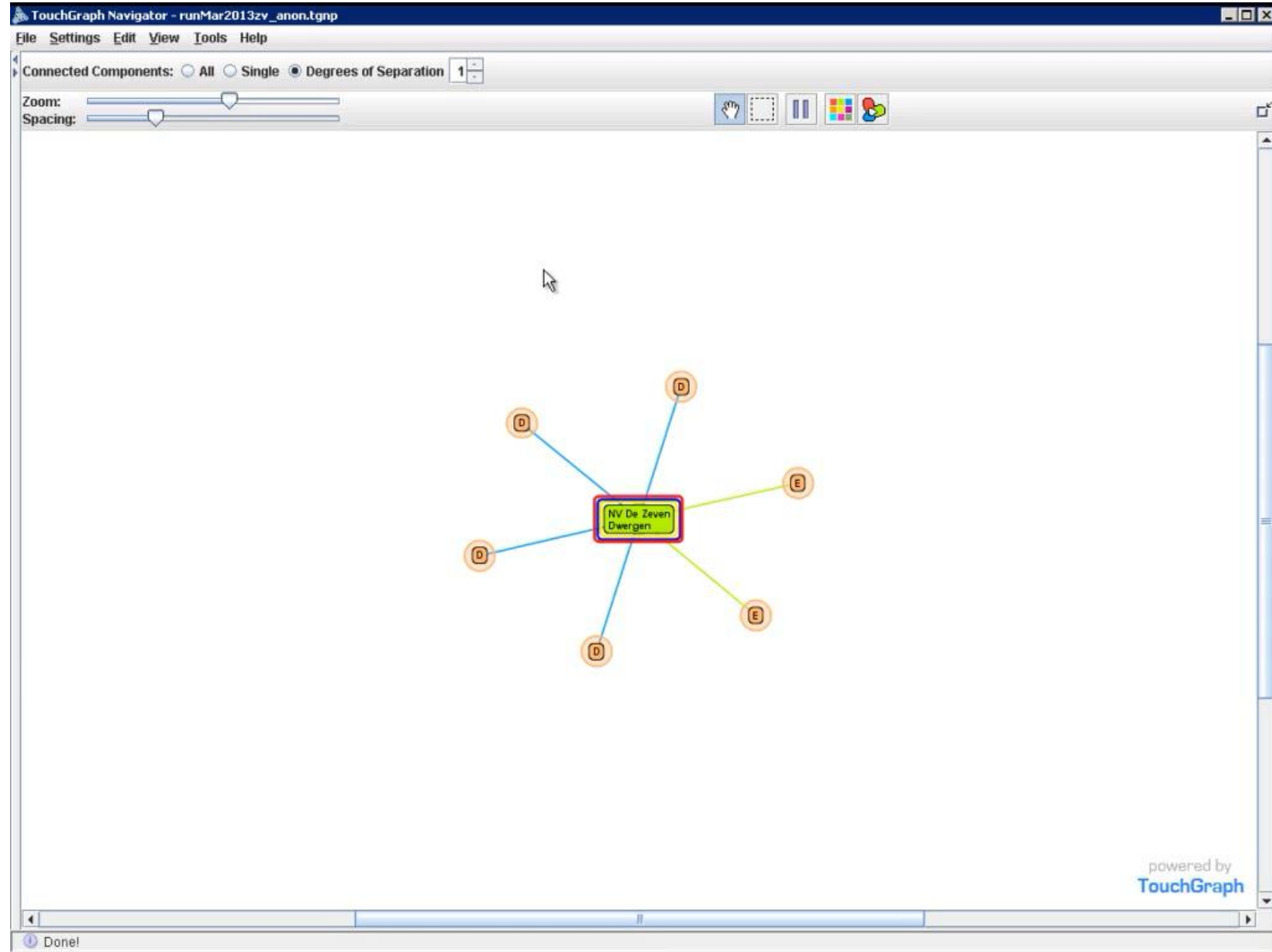
~~NEW COMPANY~~



NETWORK ANALYTICS



NETWORK EXPLORATION TOOL





RETAIL



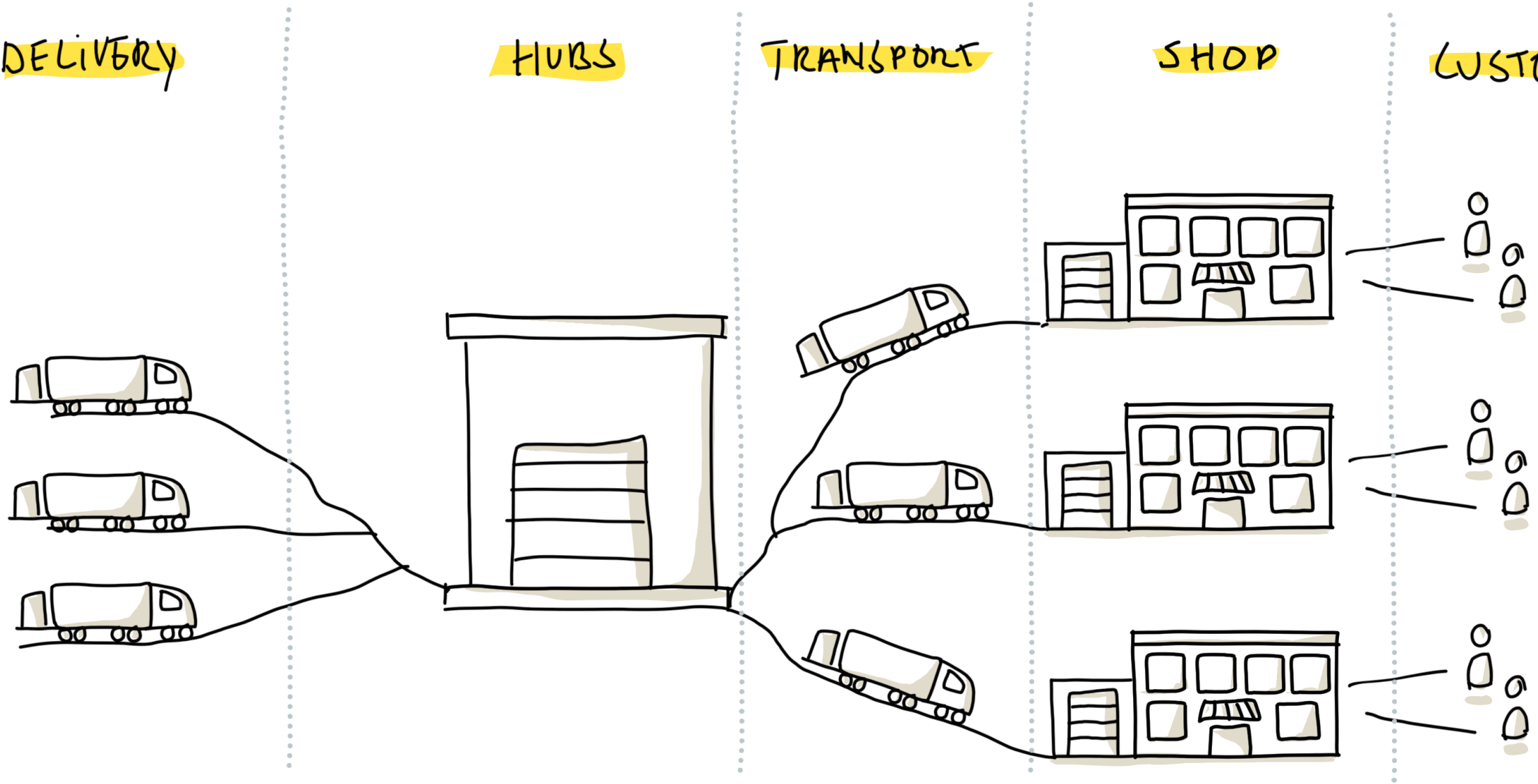
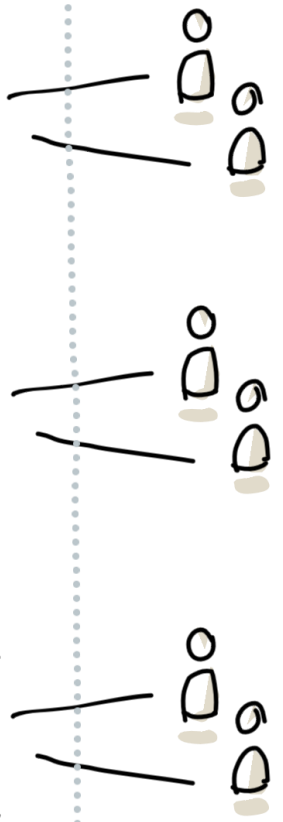
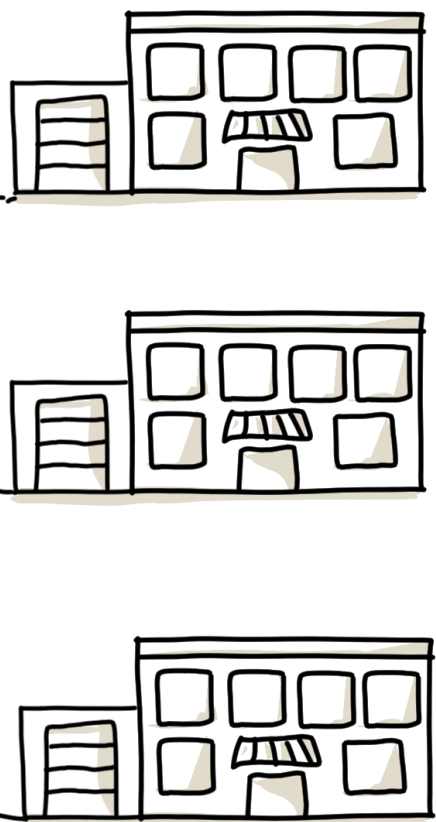
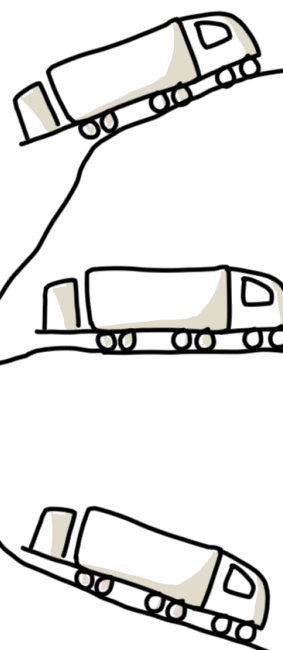
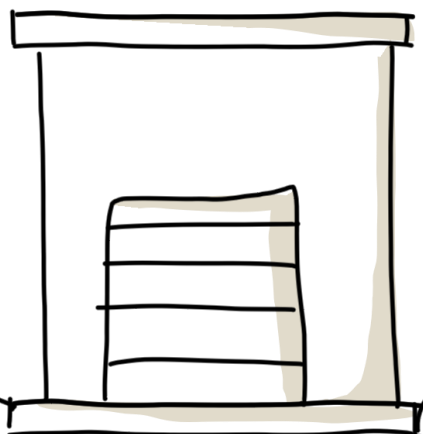
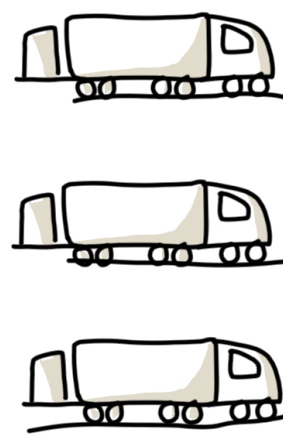
DELIVERY

HUBS

TRANSPORT

SHOP

CUSTOMERS





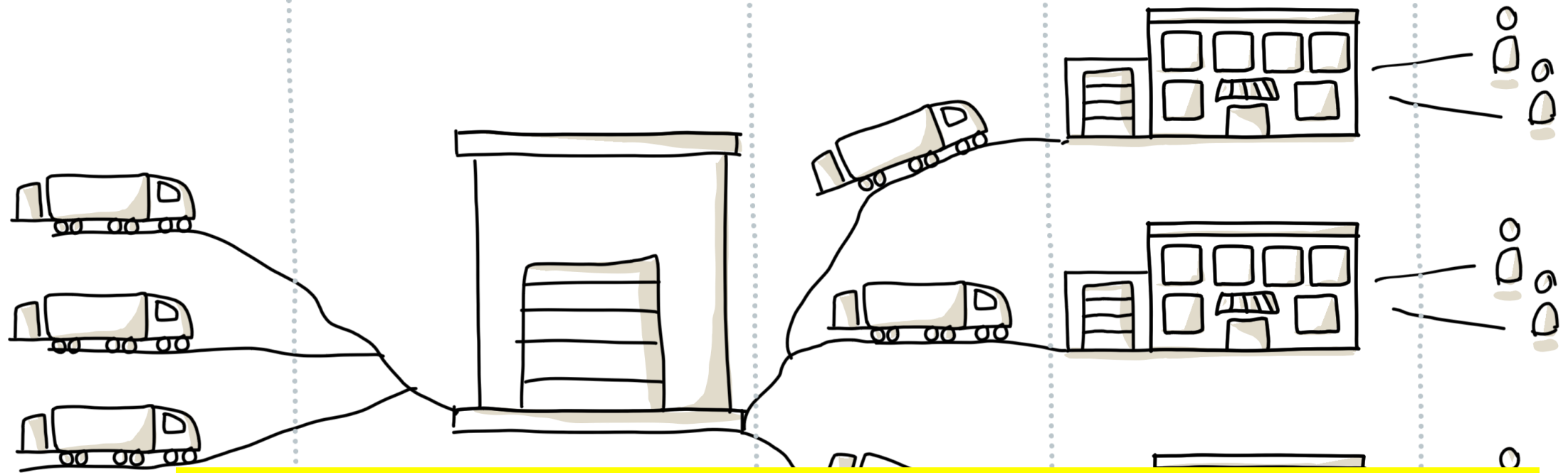
DELIVERY

HUBS

TRANSPORT

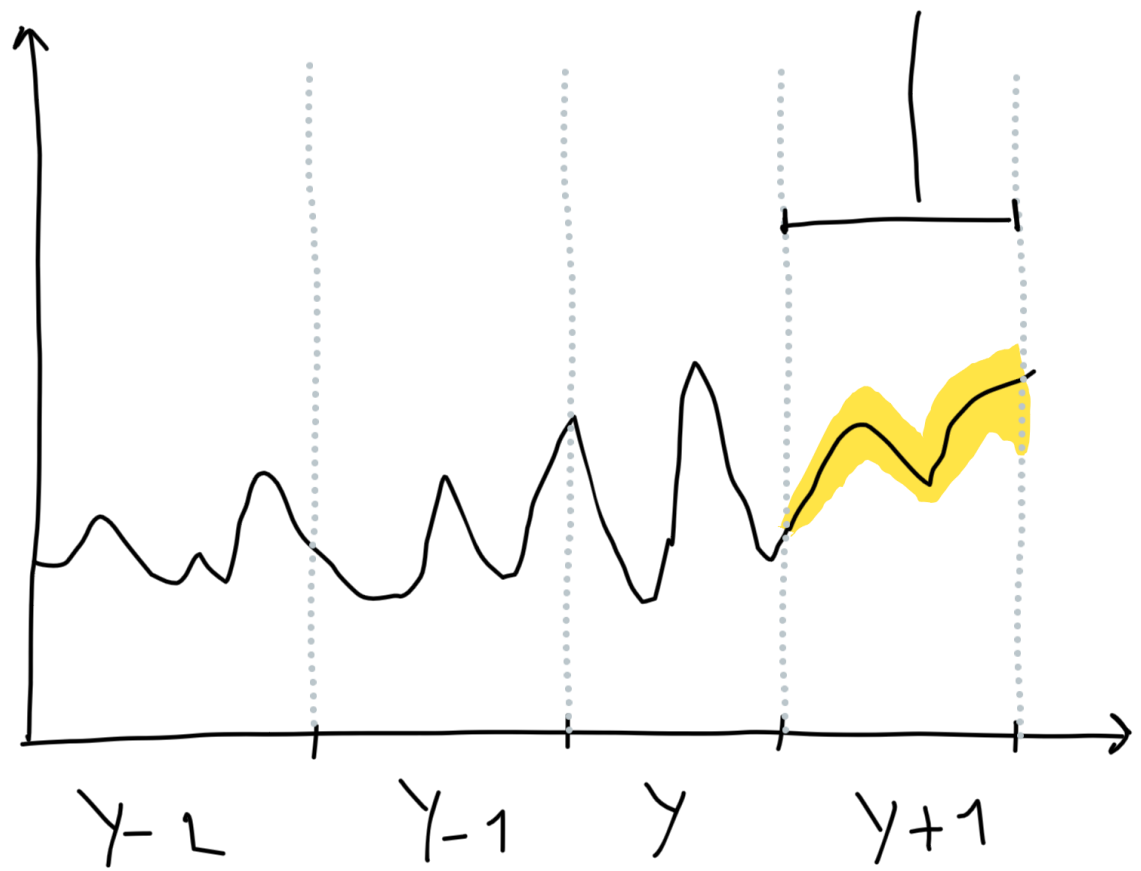
SHOP

CUSTOMERS



**Q: Buy Cheaper Products
from Whole Sale?**

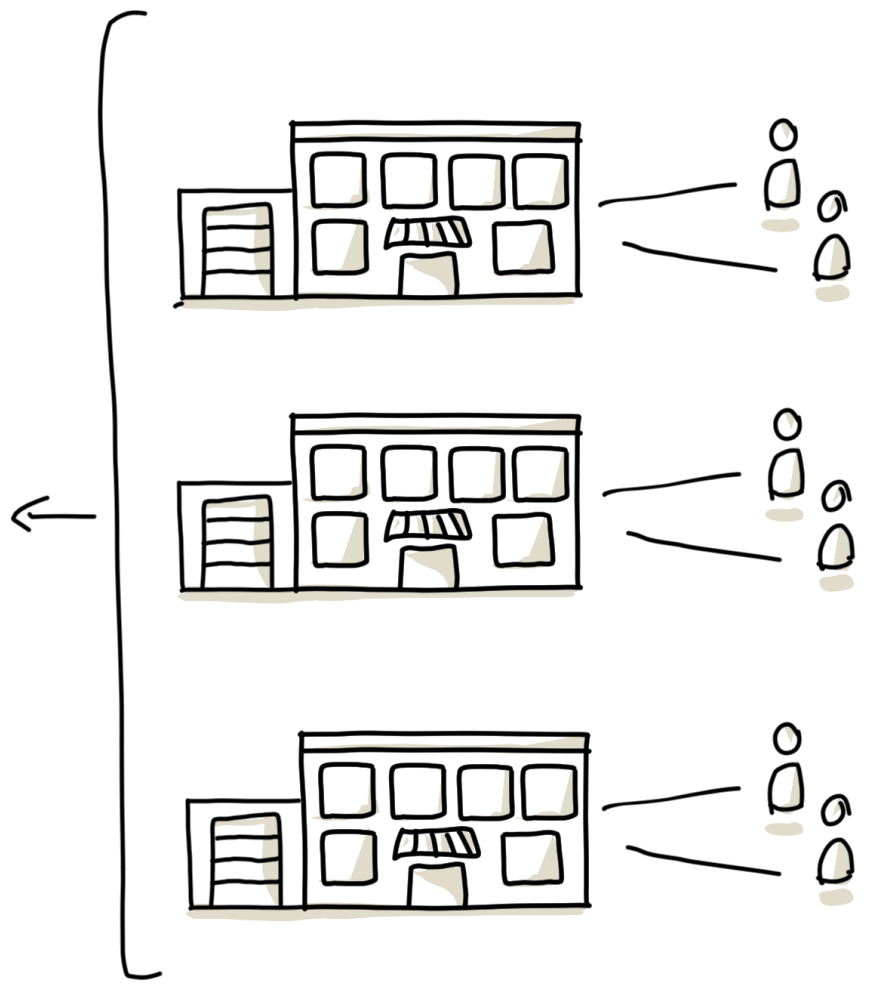
Σ = VOLUME PURCHASE



FORECAST PRODUCT X

SHOP

CUSTOMERS





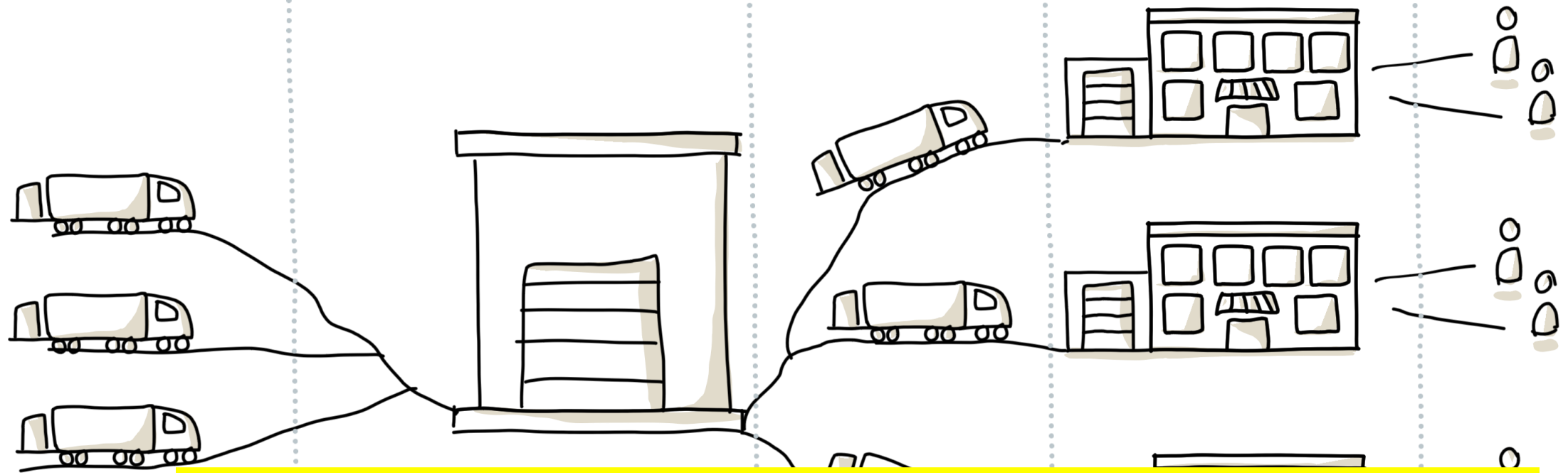
DELIVERY

HUBS

TRANSPORT

SHOP

CUSTOMERS

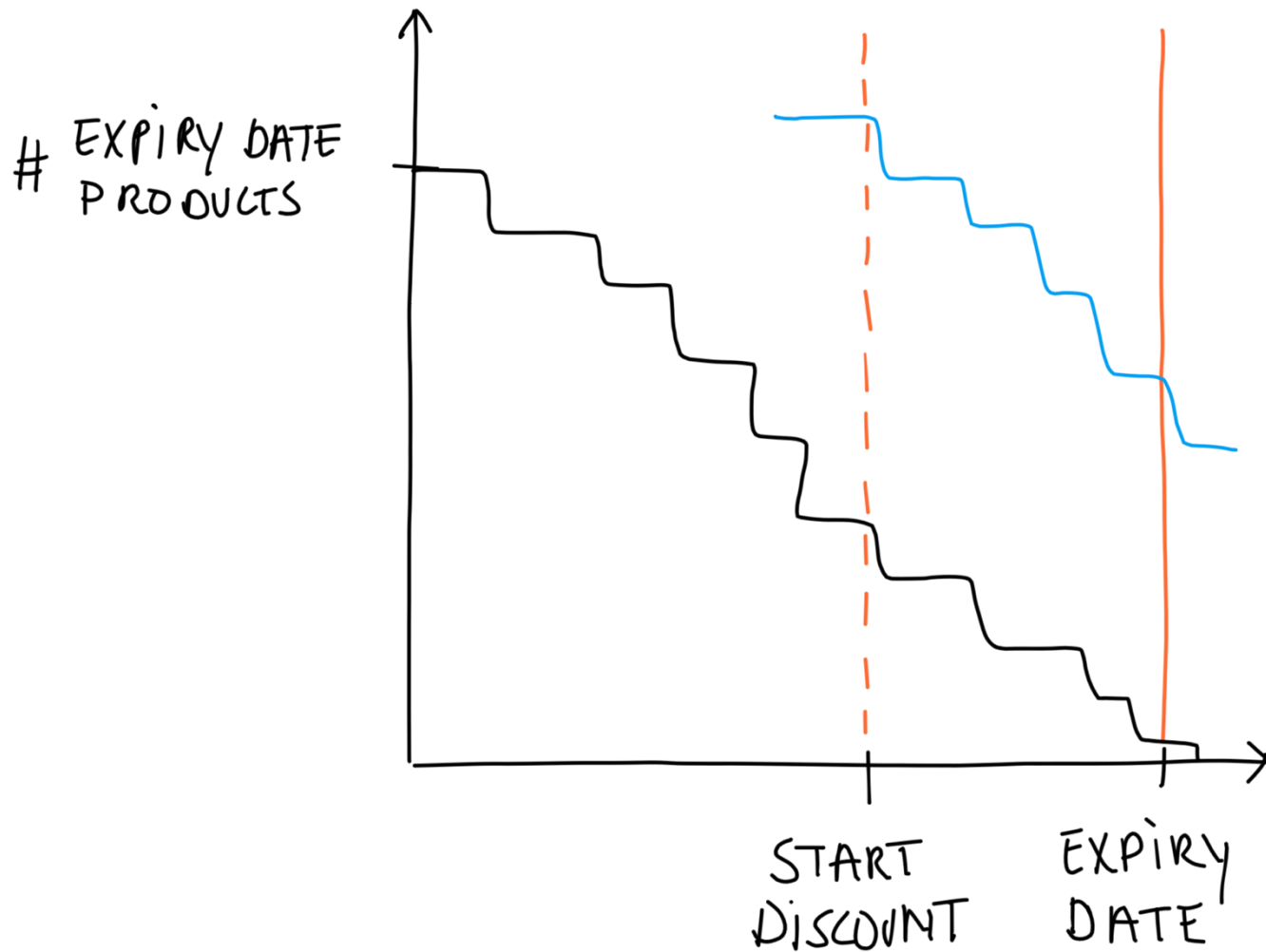


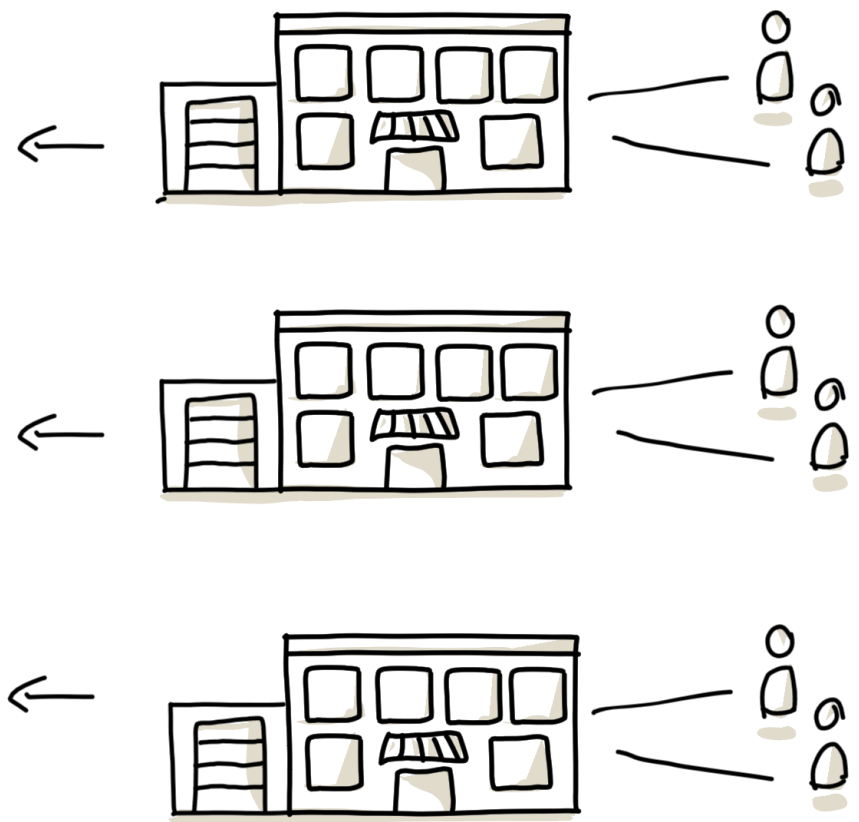
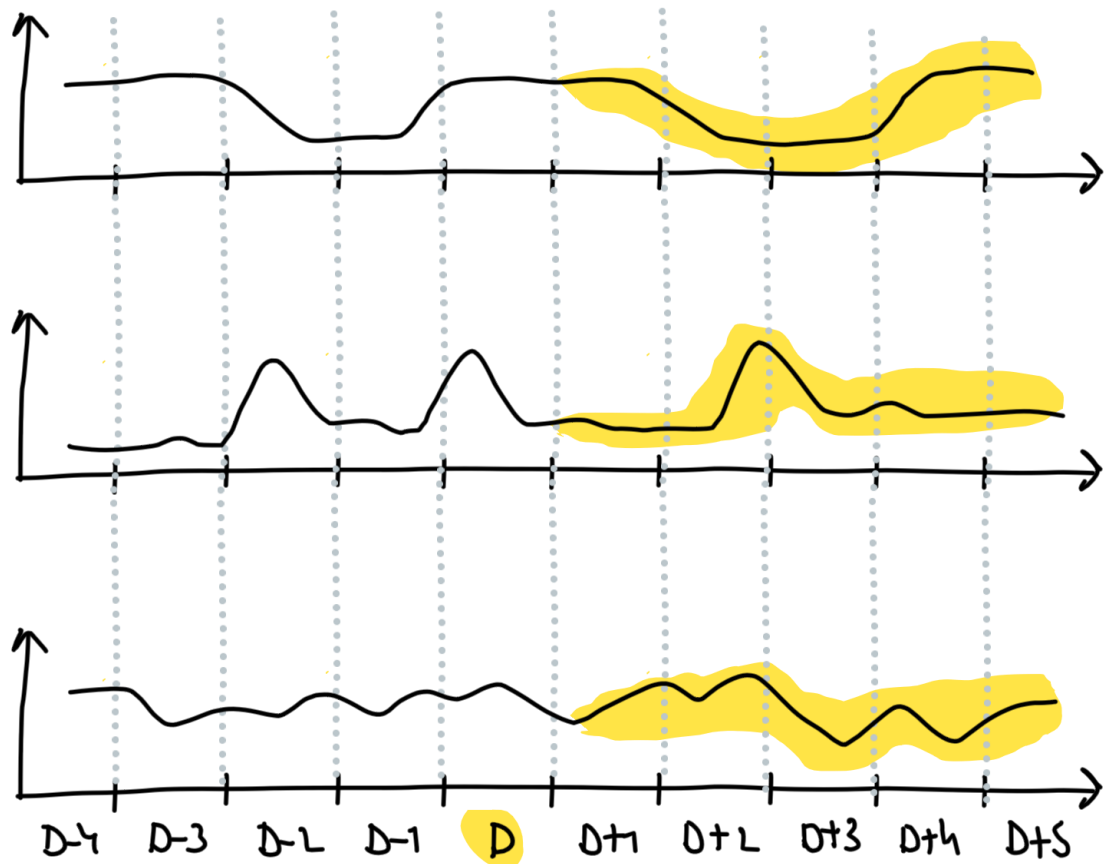
Q: Optimize the Expiry Date Stock in the Shops



EXPIRY DATE

STOCK MANAGEMENT










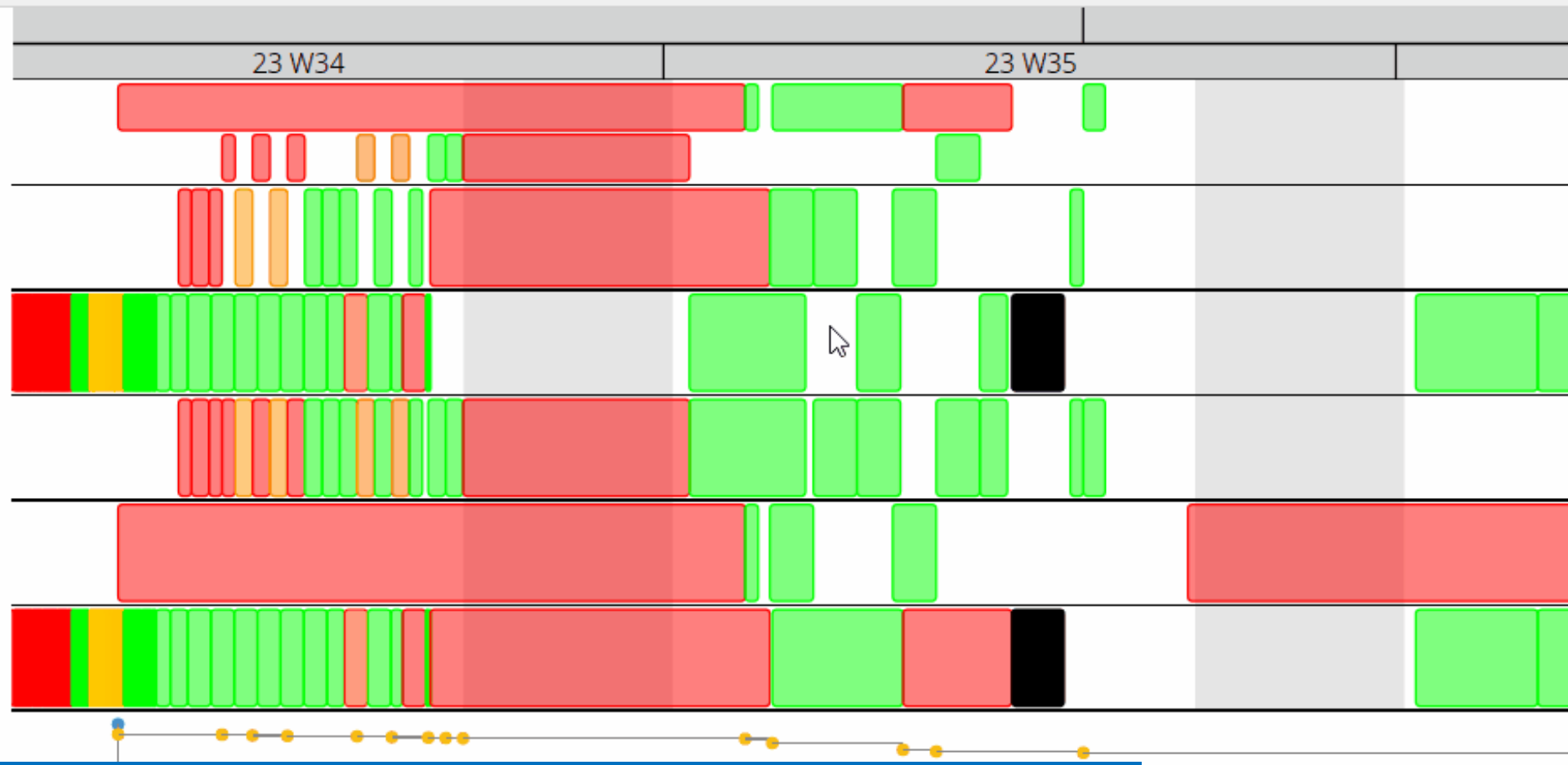


FORECAST PRODUCT X



Color By Delay ▾

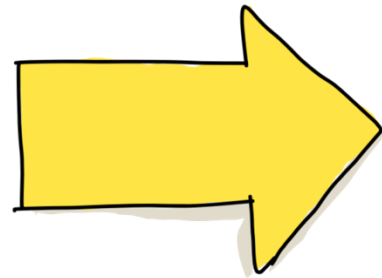
-  assembly line ▶
-  grinder ▶
-  saw ▶
-  Carl ▶
-  Antonio ▶
-  Philippe ▶
-  screws @ factory ▶



Production Planning

-  Demand 02 ▶

INPUT



OUTPUT



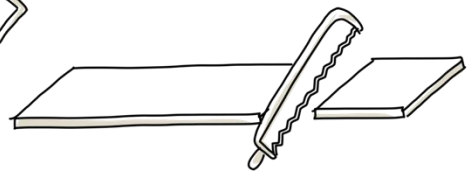
DOORHINGE



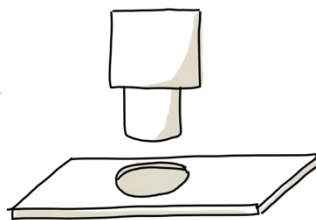
DOORHANDLE



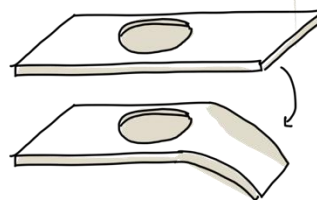
HOOD



SAWING

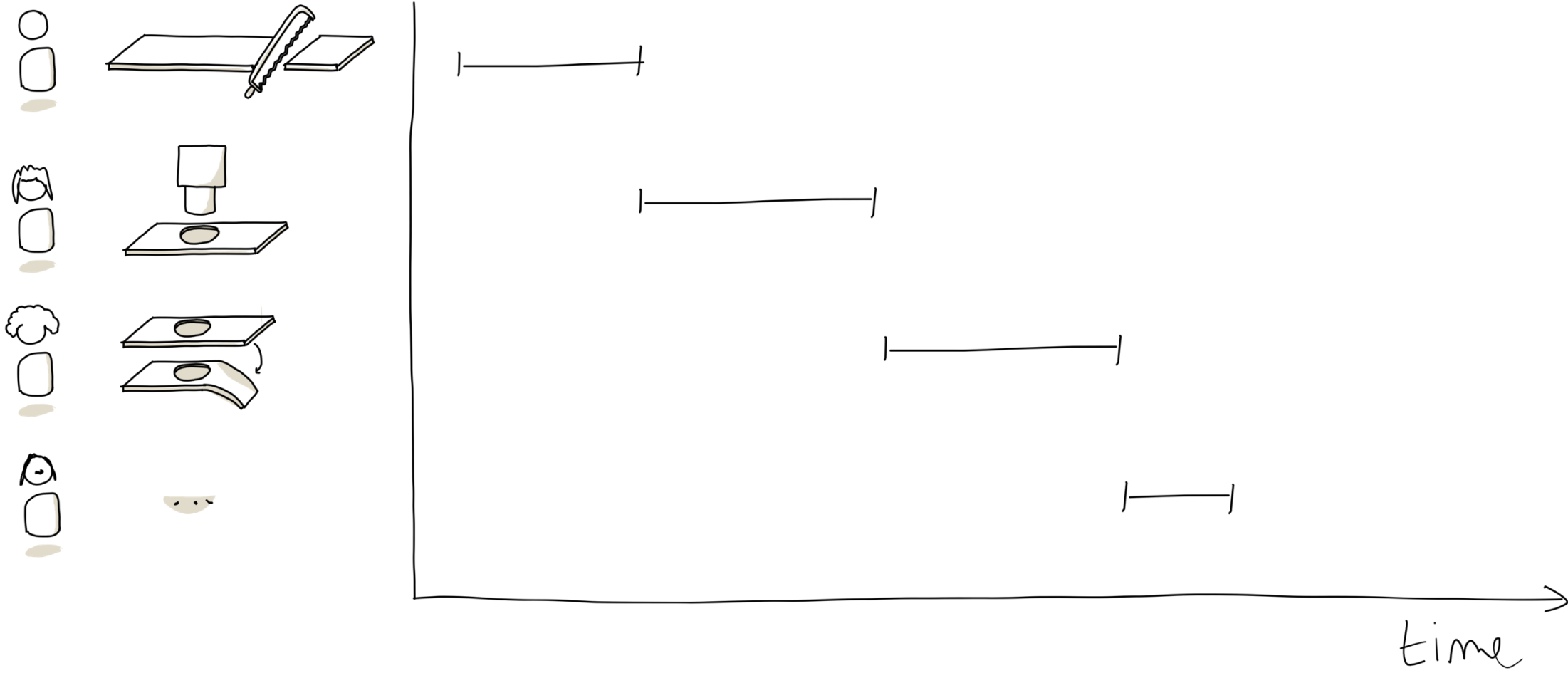


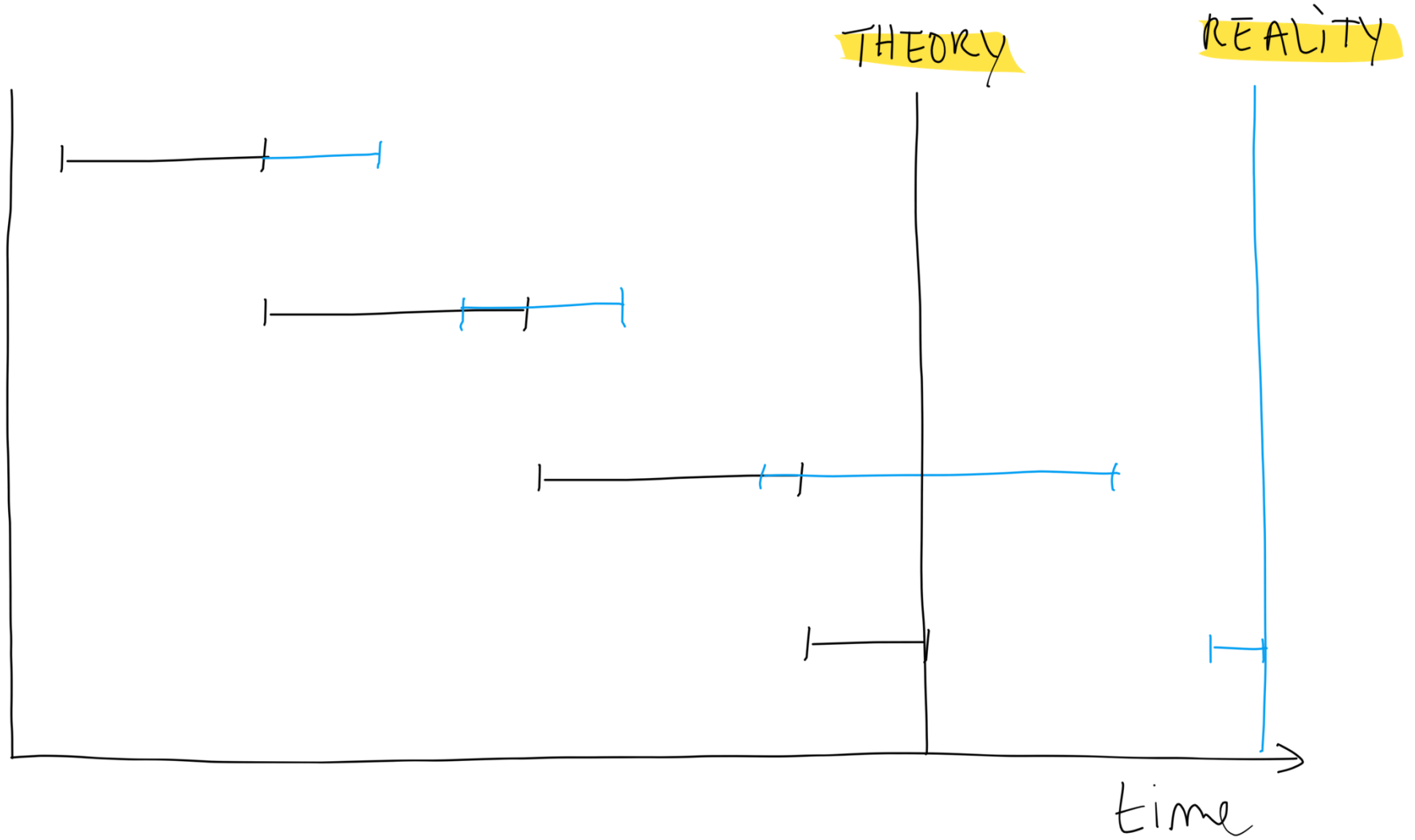
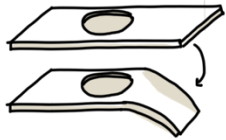
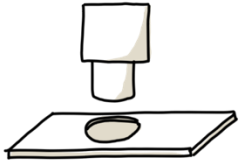
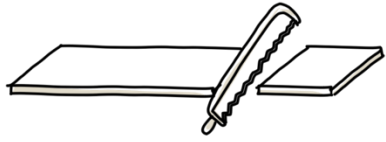
MILLING

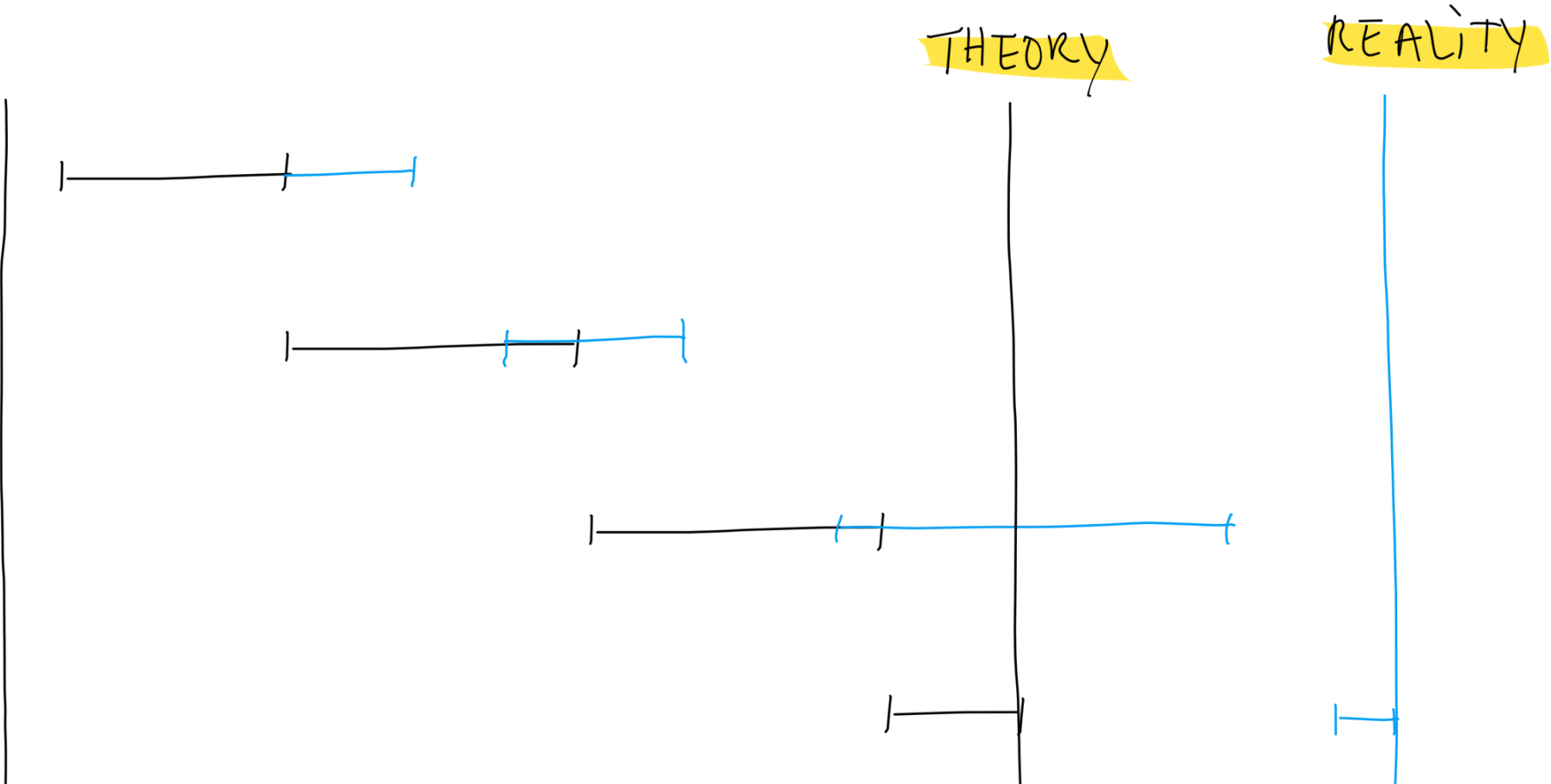
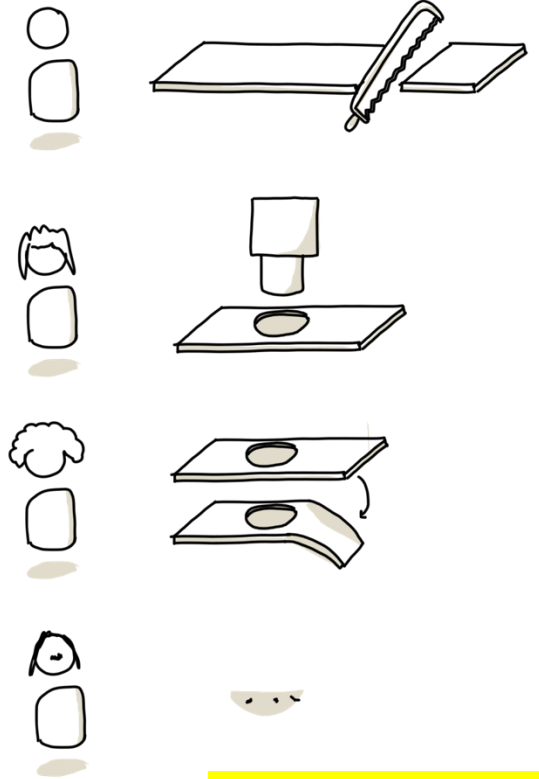


BENDING



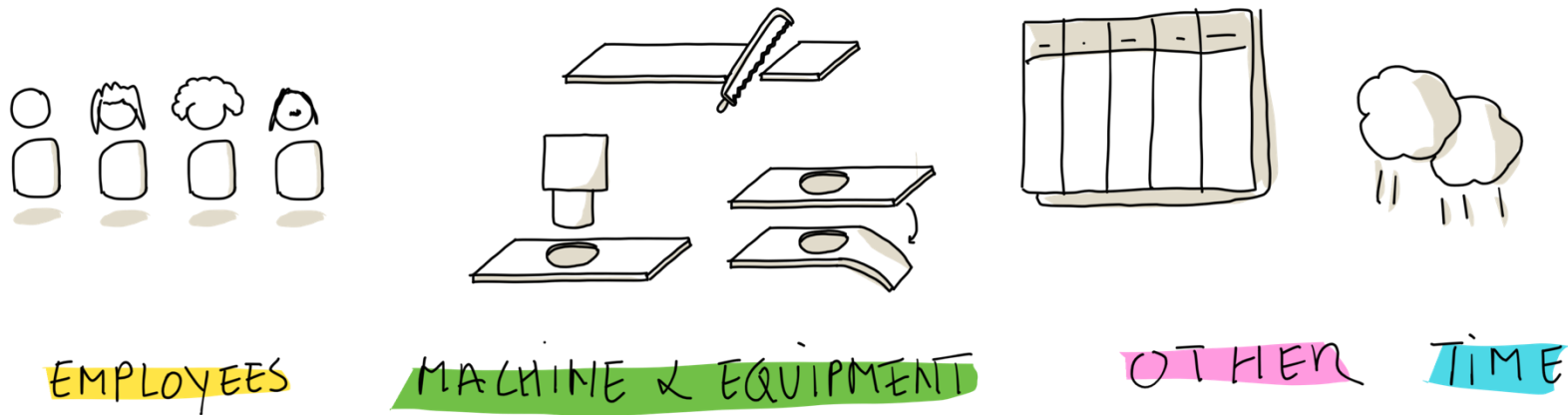






Q: Make the Production Planning More Accurate

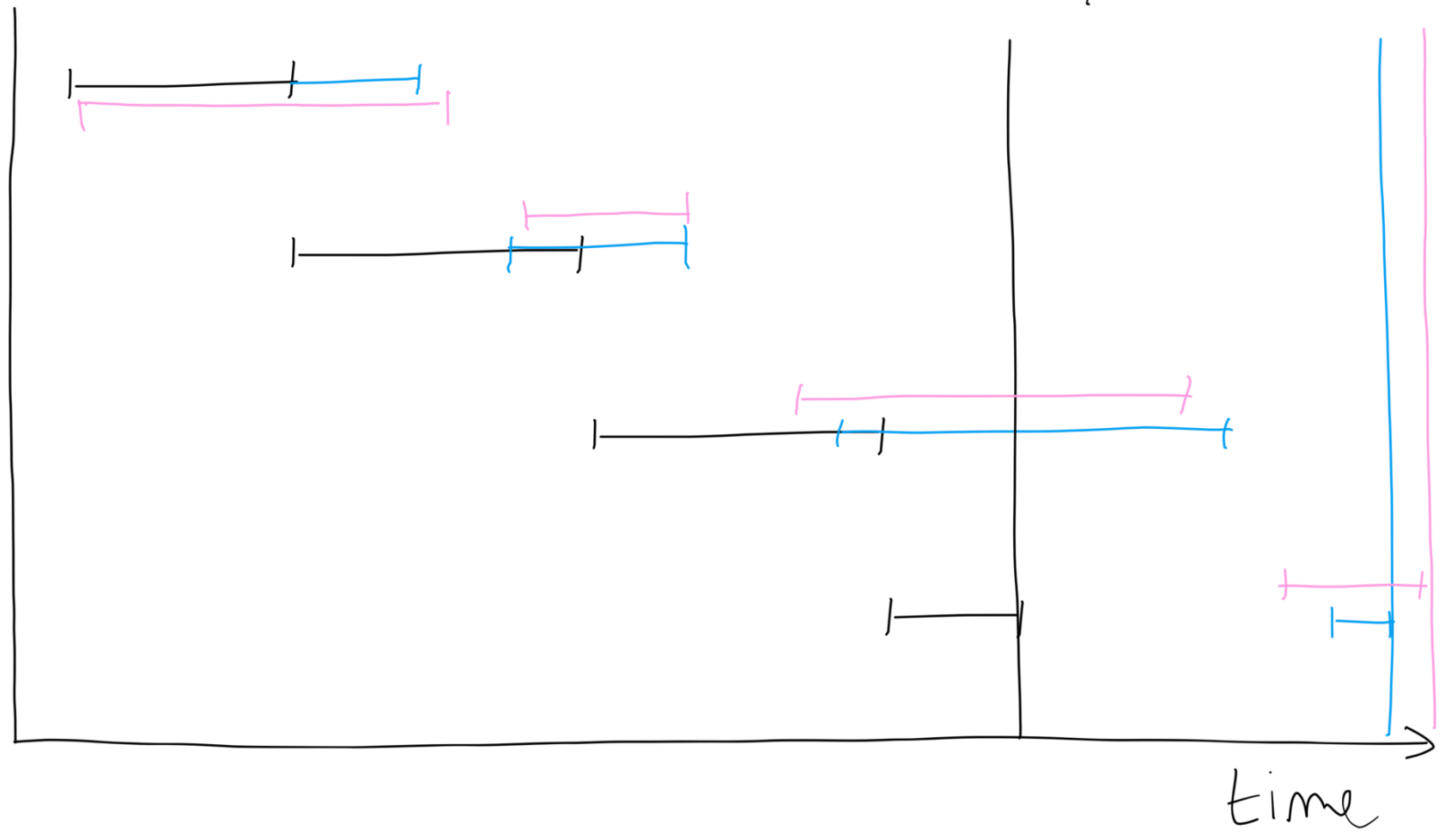
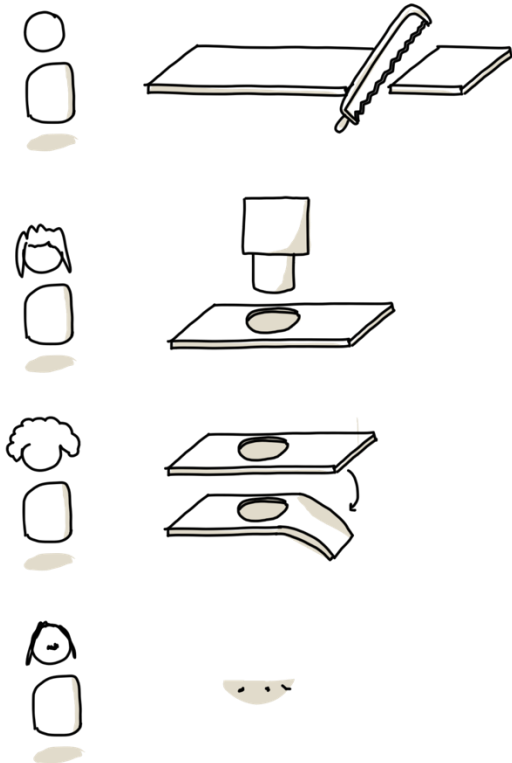




EMPLOYEES	MACHINE & EQUIPMENT	OTHER	TIME

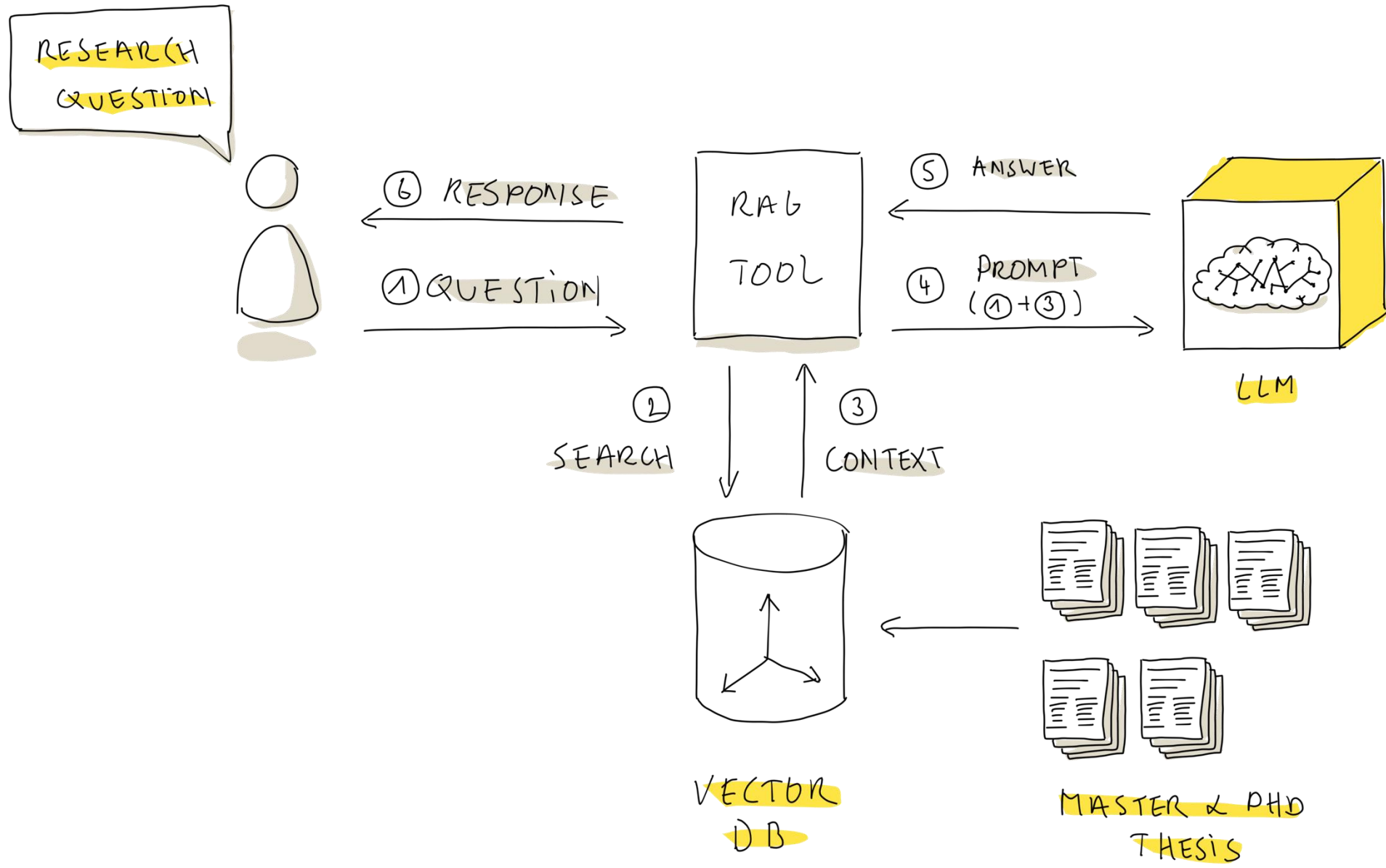
$$\times \text{GBOOST}(\text{yellow}, \text{green}, \text{pink}) = \text{blue}$$

THEORY REALITY XGBOOST





Stimulate Innovation





Hello, my name is Brian and I will be your personal assistant. How can I help you?

What is the most sustainable way to create car batteries?



According to the snippets provided, the most sustainable way to create car batteries is by incorporating a circular economy approach and sustainable supply chains. This includes using renewable energy in the production process, increasing the round-trip efficiency of the battery system, and sourcing materials like nickel and cobalt from sustainable suppliers. Additionally, integrating recycling of the battery pack at the end of its life can further reduce the environmental impact. By implementing these strategies, battery manufacturers can work towards providing sustainable car batteries for electric vehicles.

Source(s):

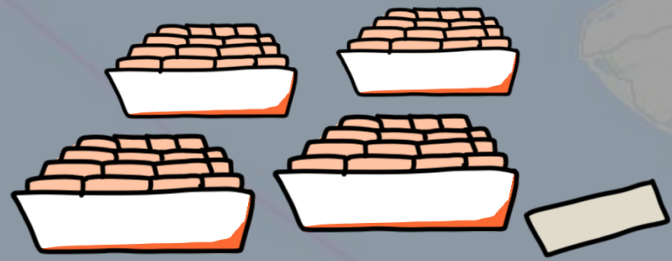
- [Making Space Exploration Sustainable: A Quantitative Assessment of Valuable Elements for Implementation of In-Situ Utilisation of Lunar Resources](#)
- [Renewable energy: A continuation of neocolonialism? Research about indications within the increasing demand for renewable energy.](#)
- [Life Cycle Assessment of a Lithium-Ion Battery pack for Energy storage Systems: - the environmental impact of a grid-connected battery energy storage system](#)
- [Pre-feasibility study of V2G system in the micro-grid of St. Martine Island, Bangladesh.](#)

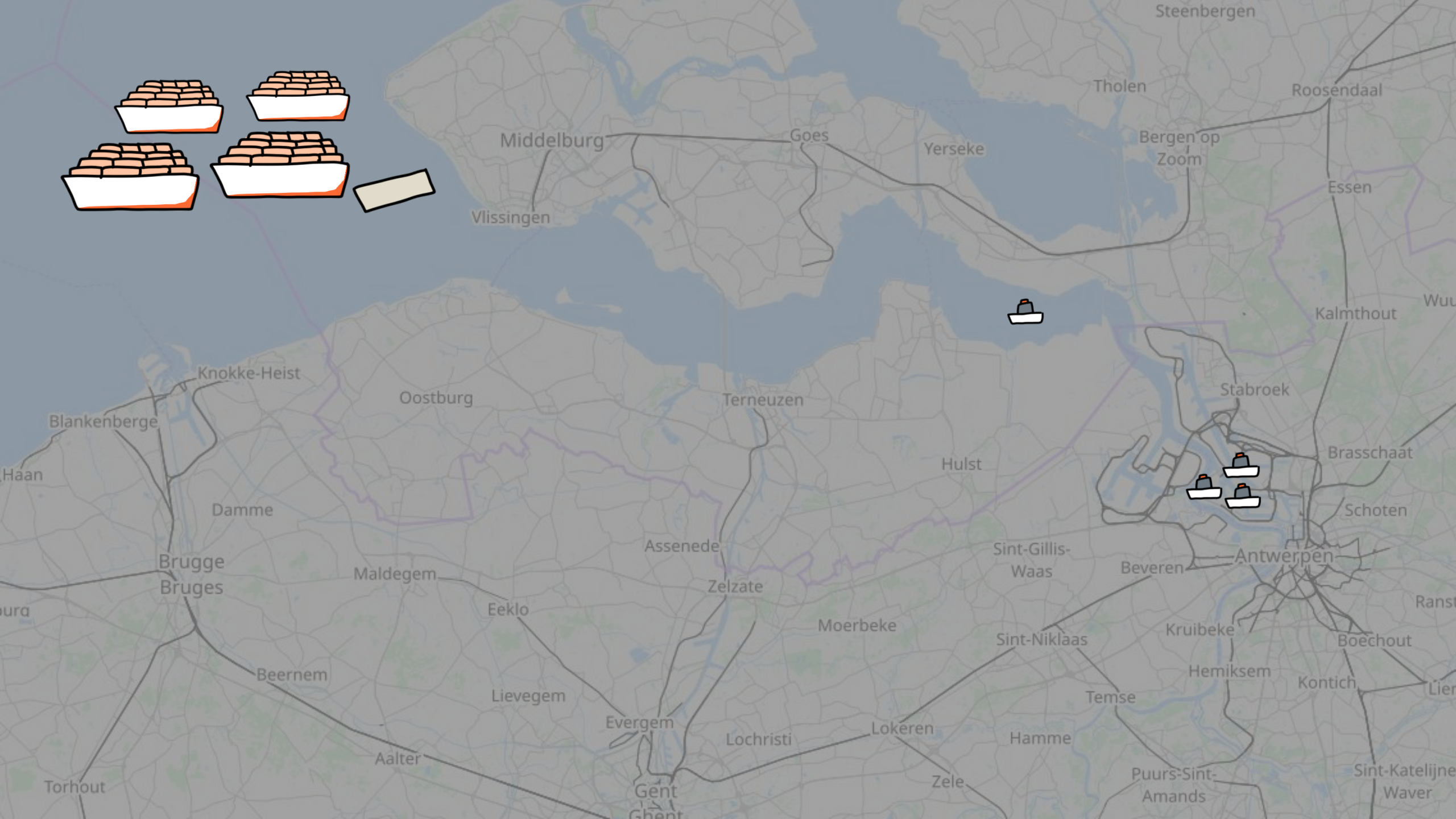
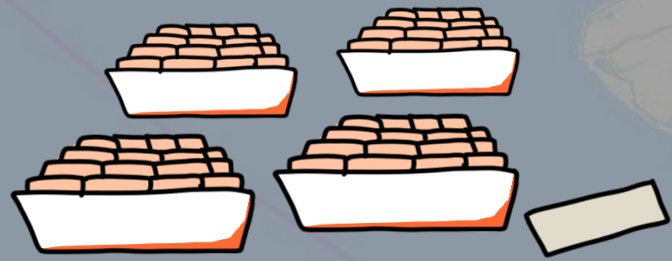
Type your message here...

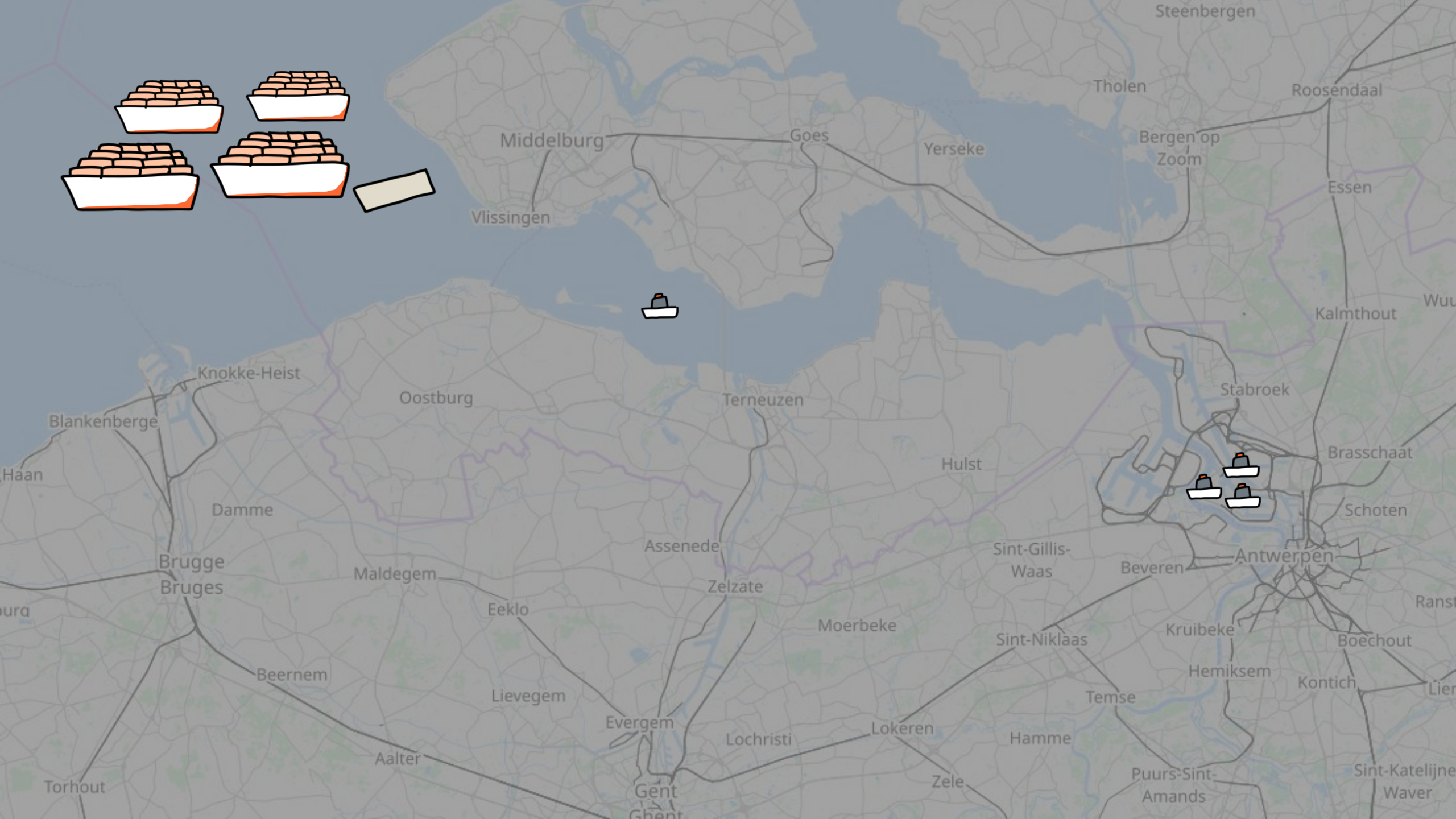




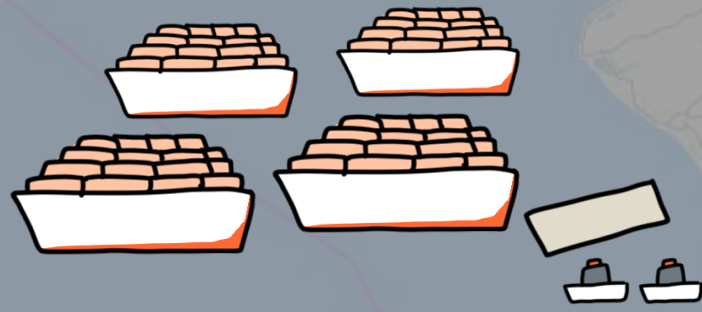
TUG BOAT PREDICTION







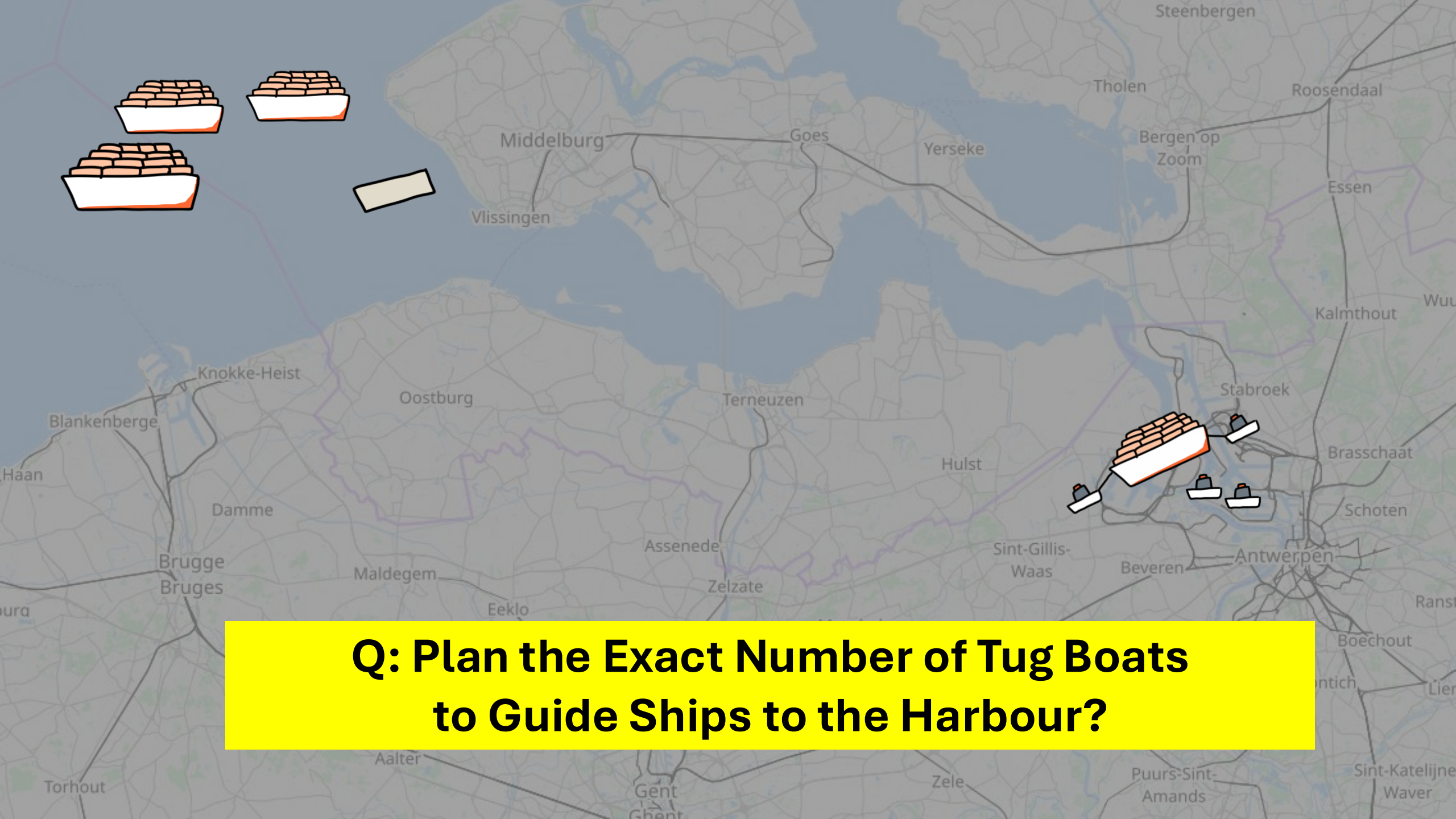




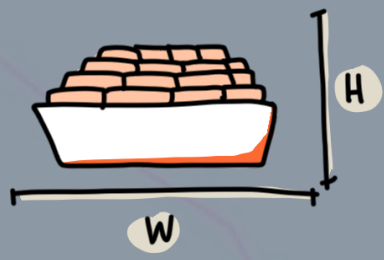




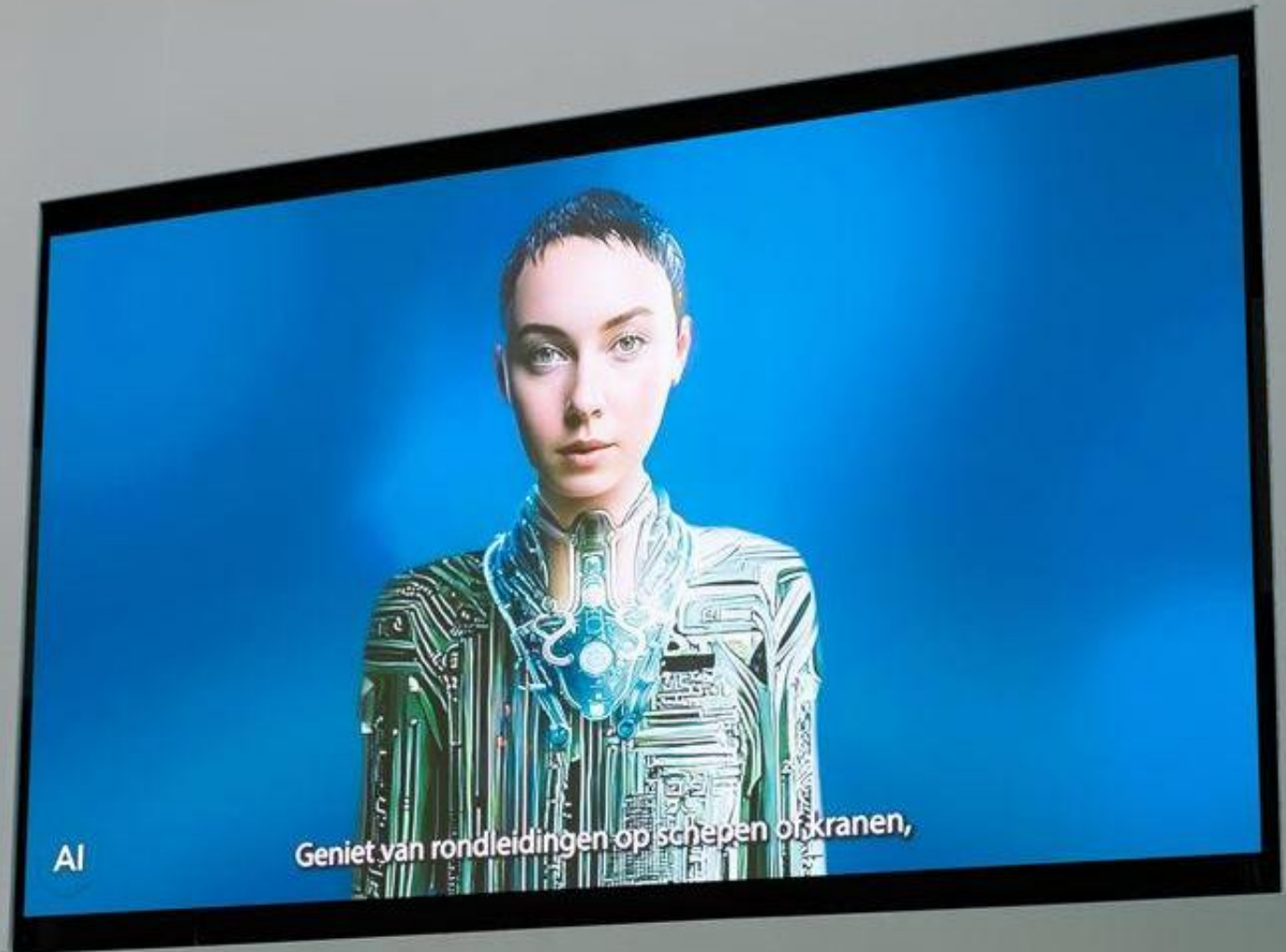




Q: Plan the Exact Number of Tug Boats to Guide Ships to the Harbour?



A map of the Scheldt river basin in Belgium and the Netherlands. The map shows the river network and various towns. Key locations include Middelburg, Vlissingen, Terneuzen, Oostburg, Knokke-Heist, Brugge, Damme, Maldegem, Eeklo, Lievegem, Evergem, Lochristi, Lokeren, Zele, Hamme, Temse, Sint-Niklaas, Sint-Gillis-Waas, Beveren, Antwerpen, Schoten, Brasschaat, Stabroek, Bergen op Zoom, Yerseke, Tholen, Steenbergen, Roosendaal, Essen, Kalmthout, Wuu, Haan, Blankenberge, Knokke-Heist, Oostburg, Assenede, Zelzate, Moerbeke, Sint-Gillis-Waas, Sint-Niklaas, Kruibeke, Hemiksem, Kontich, Lier, Torhout, Beernem, Aalter, Gent, Ghent, Puurs-Sint-Amands, and Sint-Katelijne-Waver.



AI

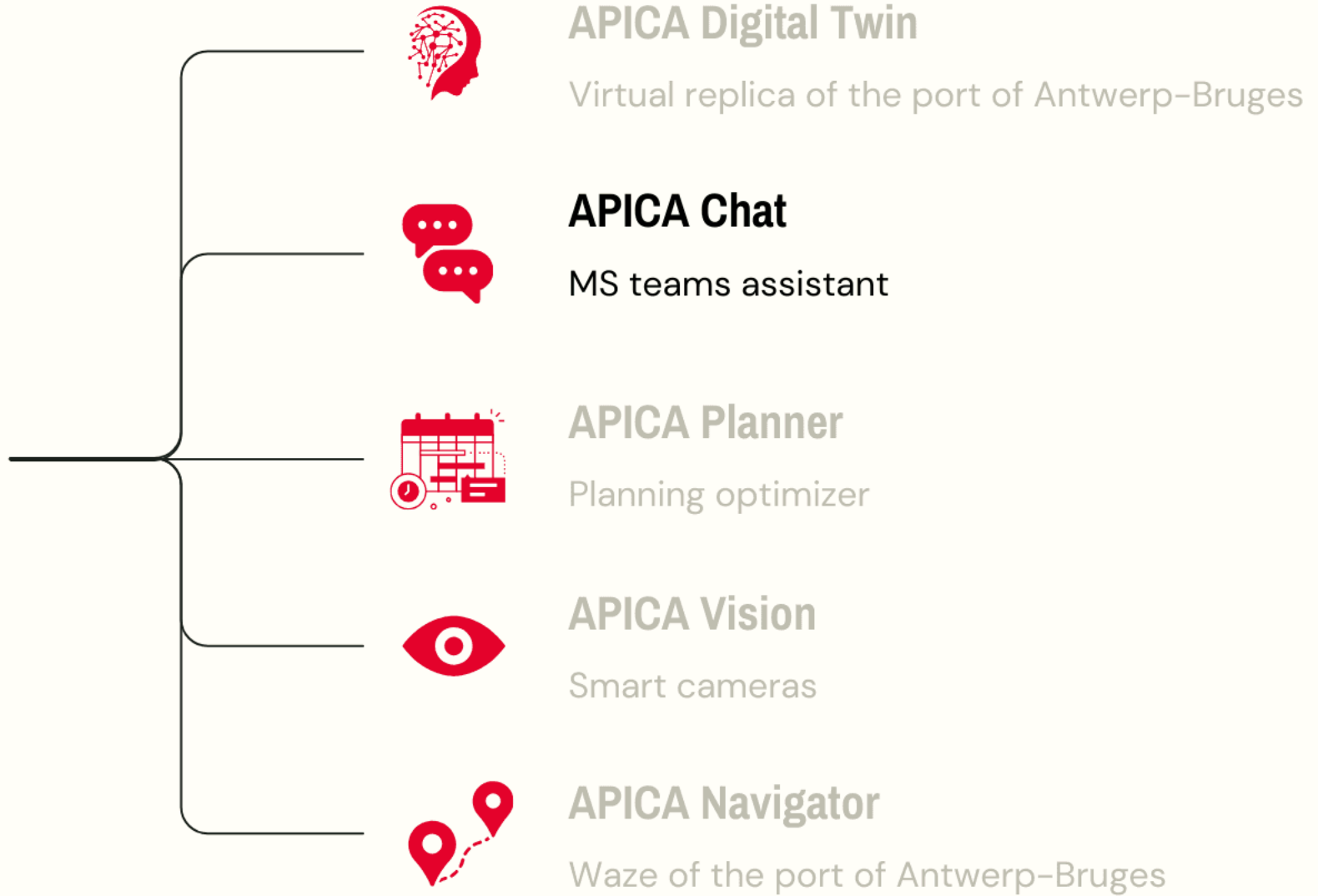
Geniet van rondleidingen op schepen of kranen,

APICA



APICA

**Advanced Port Intelligence
& Coordination Assistant**





APICA

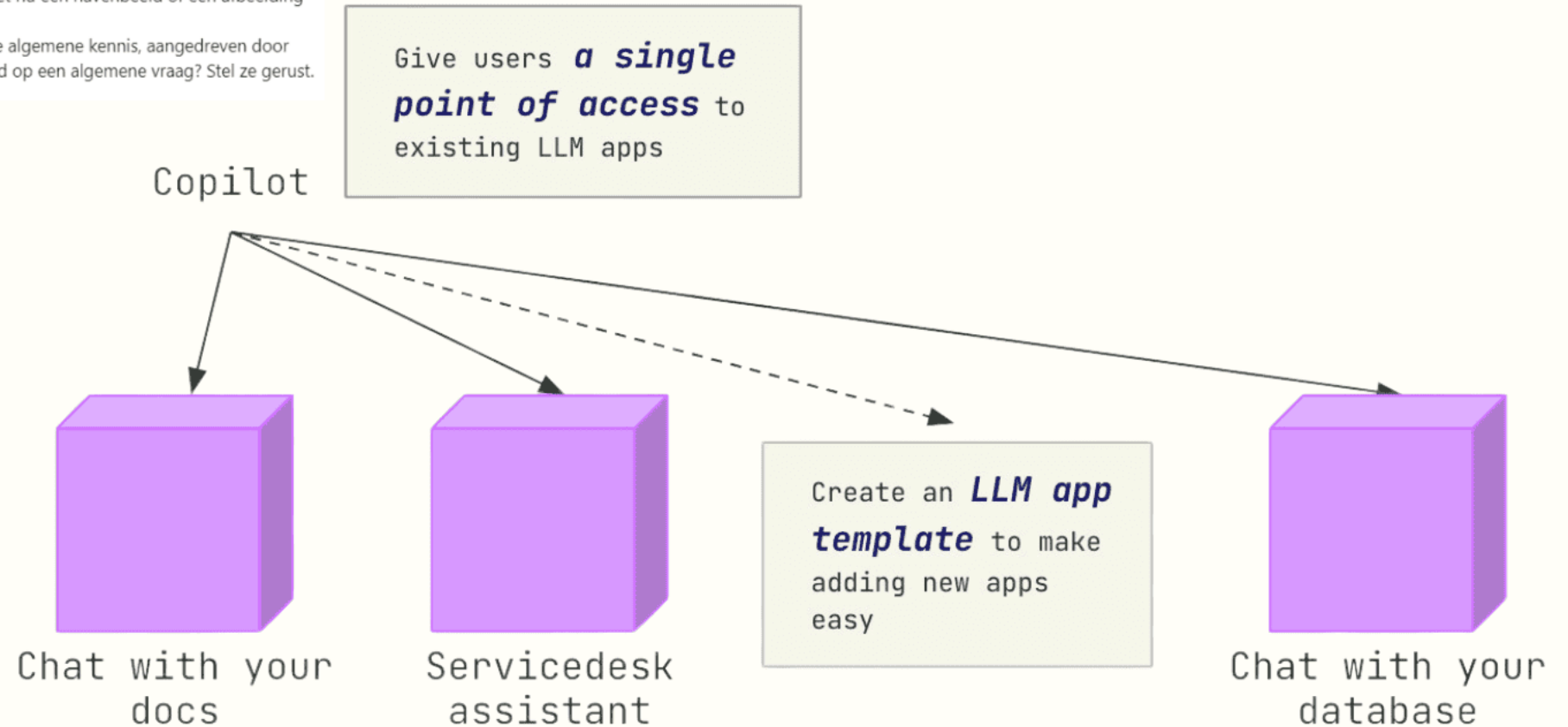
Gepubliceerd door Port of Antwerp-Bruges

Versie 1.0.3

Hallo,

Ik ben APICA, jouw virtuele AI assistente bij de haven van Antwerpen-Brugge. Hoewel ik nog volop in ontwikkeling ben en beperkt ben in gedetailleerde haveninformatie, help ik je graag verder met:

- **Documentanalyse:** Upload documenten en stel specifieke vragen, en ik bezorg je een antwoord. Deel grote documenten op in stukjes als je informatie uit een specifiek deel nodig hebt.
- **Fotogeneratie:** Beschrijf wat je nodig hebt, of het nu een havenbeeld of een afbeelding voor een presentatie is. Ik maak het voor je.
- **Algemene chat met ChatGPT:** Ik heb een brede algemene kennis, aangedreven door ChatGPT. Heb je behoefte aan een snel antwoord op een algemene vraag? Stel ze gerust.





9:54

Hoeveel zeeschepen zijn gisteren aangekomen?



TestAPICA 9:54



Query

Toon/Verberg Query

Uitleg

Om het aantal vaartuigen van het type zeeschip te tellen die gisteren een aankomstreis hebben gedaan en niet geannuleerd zijn, moeten we de tabel 'reis' gebruiken. We filteren op het type reis 'aankomstreis', de startdatum van de reis moet gelijk zijn aan gisteren, en de annulatie-tijdstip moet NULL zijn. We moeten ook de tabel 'vaartuigmutatie' joinen om te filteren op het type vaartuig 'zeeschip'.

Toon/Verberg Explanation

Concepten

Toon/Verberg Concepts

Gisteren zijn er 46 zeeschepen aangekomen.

Verander Topic

9:52

Ik ben ziek geworden tijdens mijn verlof, kan ik mijn verlof recuperen?

TestAPICA 9:52



Disclaimer: De informatie die ik heer geef is niet bindend voor het P-loket. Voor belangrijke vragen raad ik je aan om contact op te nemen met het P-loket zelf.

Ja, je kan je verlof recupereren als je ziek wordt tijdens je vakantie, maar dit geldt enkel voor de 20 wettelijke jaarlijkse vakantiedagen. De dagen van arbeidsongeschiktheid die samenvallen met je vakantie kunnen omgezet worden in ziekteverlof, mits je voldoet aan alle formaliteiten, zoals het indienen van een doktersattest.

Voor meer informatie en om de juiste procedure te volgen, raad ik je aan contact op te nemen met HR of het P-loket.

Referenties

[1] 'Indien de medewerker ziek wordt tijdens zijn vakantie (met of zonder hospitalisatie), kunnen de met de periode van arbeidsongeschiktheid samenvallende dagen van jaarlijkse vakantie omgezet worden in ziekteverlof (indien de medewerker voldoet aan alle formaliteiten).' [Overzicht wijzigingen SAR 2022](#)



Ik zou dit toch liever verifiëren met een HR medewerker, kan je een ticketje aanmaken? ✓

TestAPICA 9:53



Algemene melding via P Locket

Opmerking: als je een bestand of screenshot wil toevoegen, moet je een ticket aanmaken via de webapplicatie.

Samenvatting *

Verlof recupereren bij ziekte

Beschrijving (optioneel)

Beste,

Ik ben ziek geworden tijdens mijn verlof en ik wil graag weten of ik mijn verlof kan recupereren. Ik heb gehoord dat

Probeer zo volledig mogelijk te zijn in de beschrijving. Hoe concreter de informatie, hoe beter het inzicht, hoe sneller een oplossing.

Bereikbaar via *

Teams



Serienummer (optioneel)

Voer het serienummer in

Verstuur melding

Annuleer



CHURN DETECTION



EMAIL TRIAGE



FLOATING WASTE



FRAUD DETECTION



RETAIL



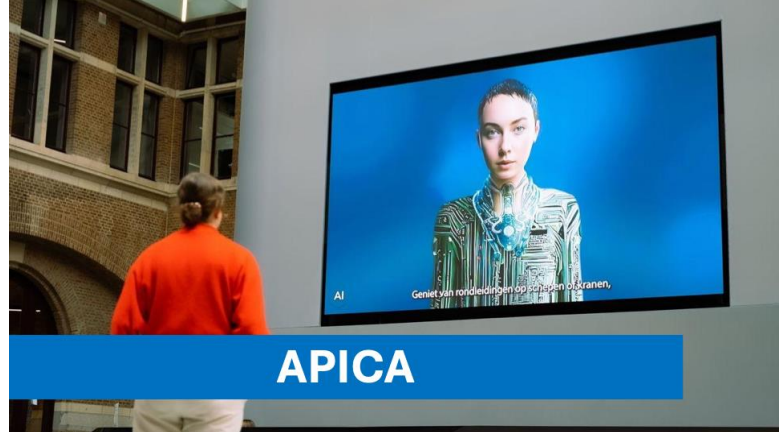
Production Planning



Stimulate Innovation



TUG BOAT PREDICTION



APICA