



World port *in good hands*

Getting a grip on Digitalisation

Understanding & Modelling

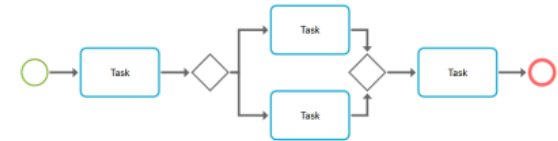


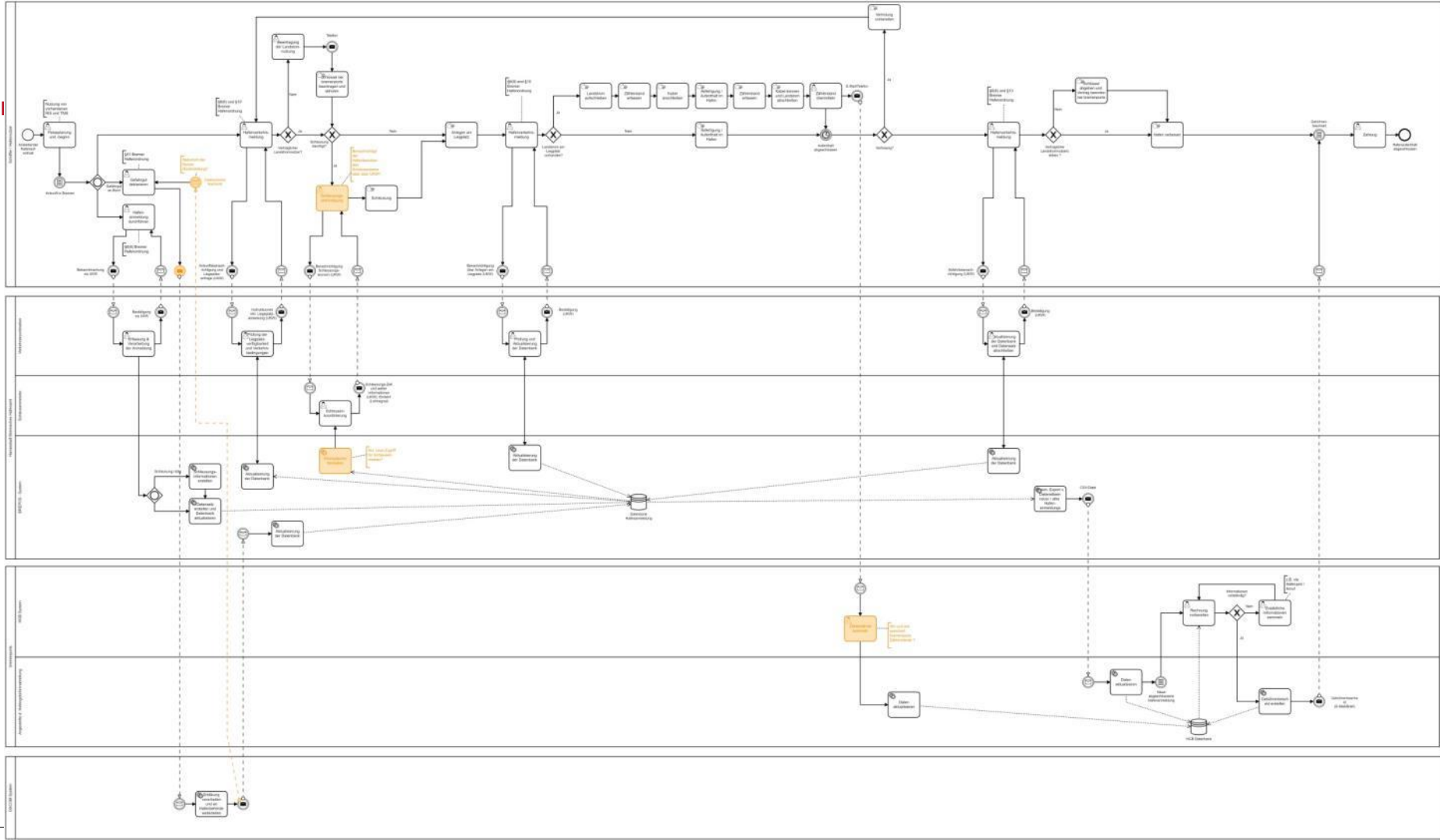
Dr. Jan-Niklas Bamler
Consultant & Project Manager

Getting a grip on Digitalisation

Home Assignment

- + Meet online in your groups and, as equals, prepare slides for a **5 minute presentation**:
 - + Slide 1: Mutual top-3 inefficient processes in your ports
 - + Slide 2: Solutions Digitalisation / smart port concepts can bring to address these inefficient processes
 - + Slide 3: Illustration of one especially inefficient process, if possible, using the BPMN as much as possible in Camunda Modeler or PowerPoint or Google Slides.
 - + Slide 4: Illustration of a partly digitised, alternative process in reference to Slide 3 using the same means.







Sailor / Shipper



Port Authority

Traffic Coordination

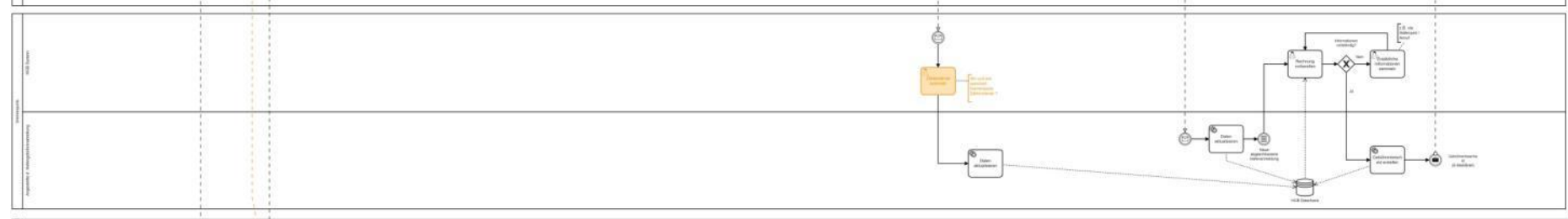
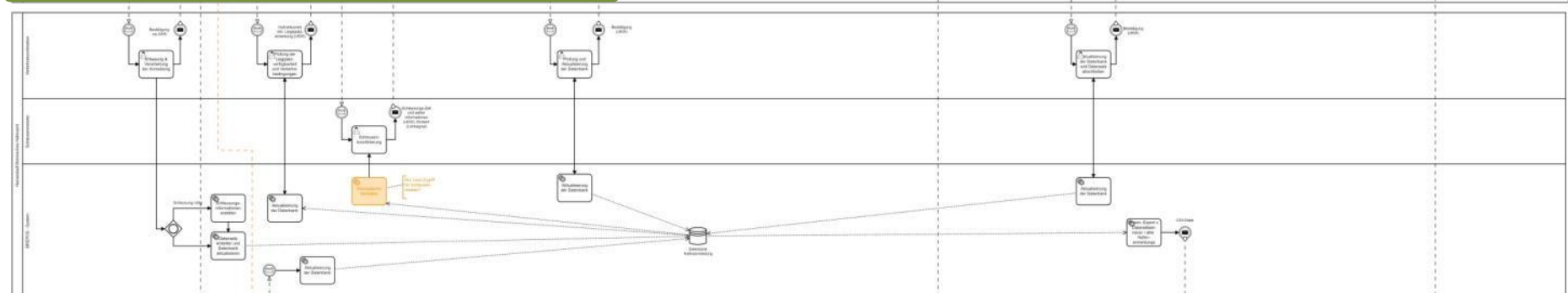
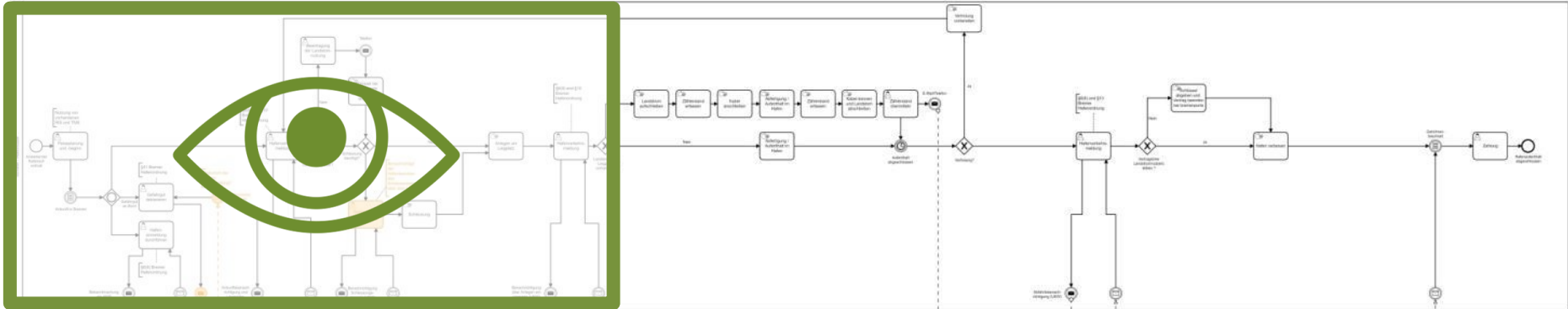
Lock Master

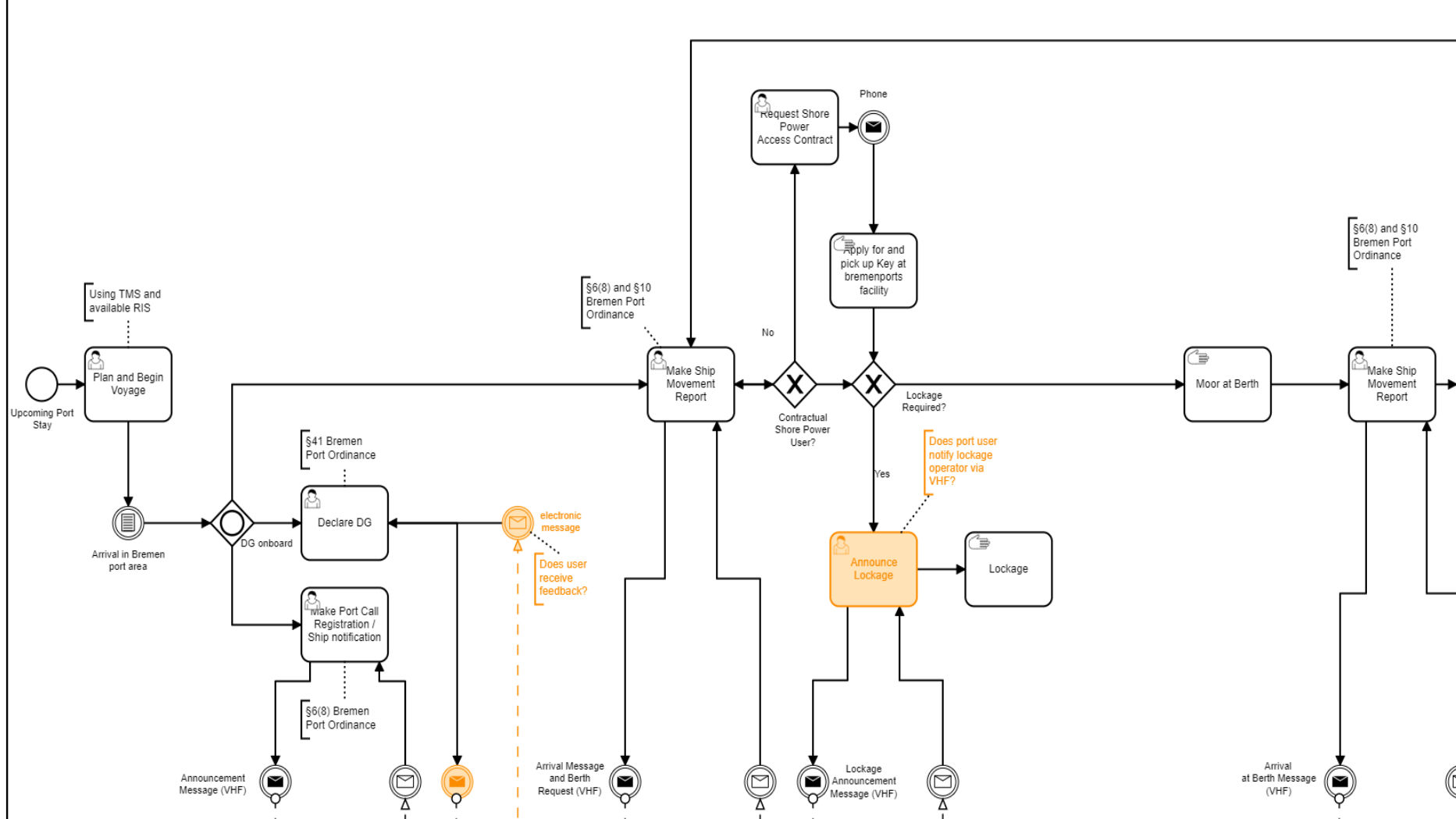
Traffic control system „BREPOS“



Infrastructure Manager bremenports

Dangerous Goods System





Using TMS and available RIS

§6(8) and §10 Bremen Port Ordinance

§41 Bremen Port Ordinance

§6(8) Bremen Port Ordinance

§6(8) and §10 Bremen Port Ordinance

electronic message

Does user receive feedback?

Does port user notify lockage operator via VHF?

No

Lockage Required?

Yes

Arrival Message and Berth Request (VHF)

Lockage Announcement Message (VHF)

Arrival at Berth Message (VHF)

Request Shore Power Access Contract

Phone

Apply for and pick up Key at bremenports facility

Moor at Berth

Make Ship Movement Report

Plan and Begin Voyage

Declare DG

wake Port Call Registration / Ship notification

Make Ship Movement Report

Announce Lockage

Lockage

Contractual Shore Power User?

Lockage Required?

Moor at Berth

Make Ship Movement Report

Arrival in Bremen port area

Announcement Message (VHF)

Arrival Message and Berth Request (VHF)

Arrival Message and Berth Request (VHF)

Arrival Message and Berth Request (VHF)

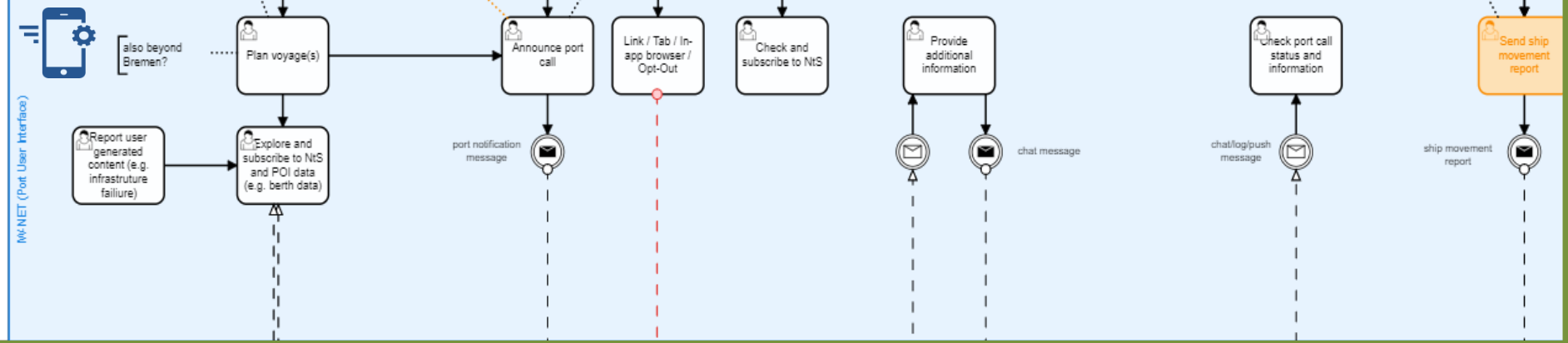
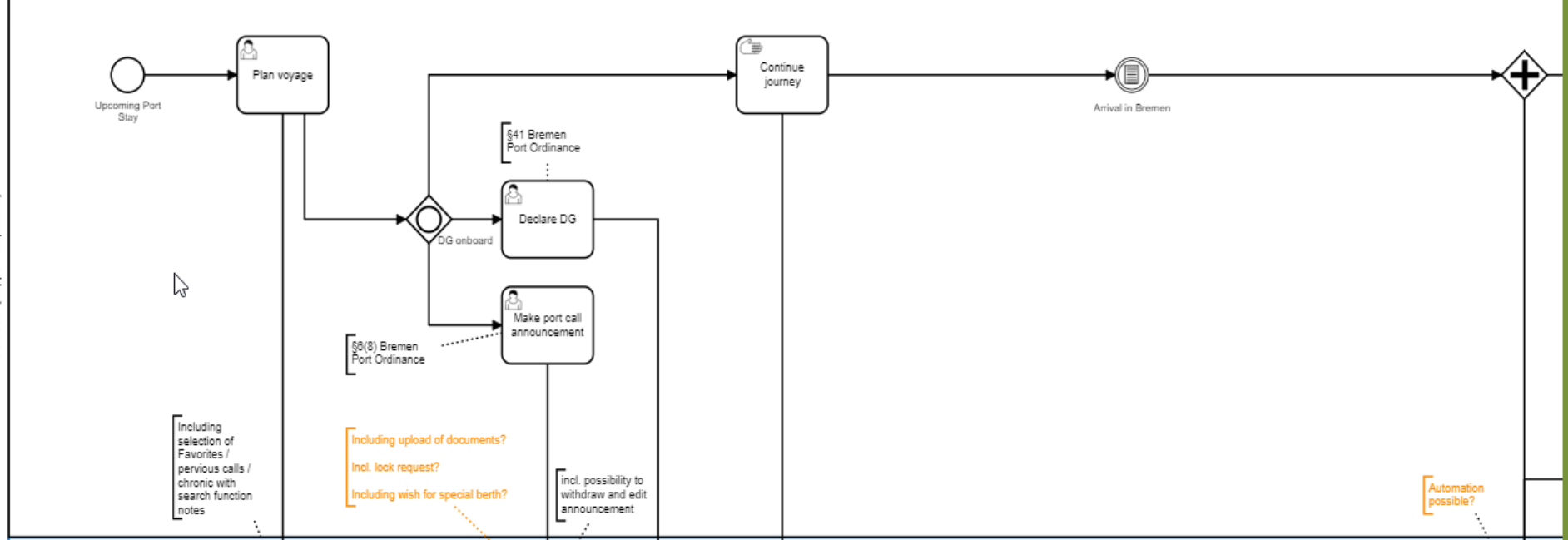
Lockage Announcement Message (VHF)

Lockage Announcement Message (VHF)

Arrival at Berth Message (VHF)

Arrival at Berth Message (VHF)

Port User (Skipper / Dispatcher)



IN-NET (Port User Interface)



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