

Presentation overview

“Definition“ and Background

Qualification requirements and education of german VTS-C Personnel

Vessel traffic Service Center Travemünde

„Three Steps“ the method

Fehmarnbelt -

- Safety Assesment

- VTS Fehmarnbelt

- safty measures (Guard ship)

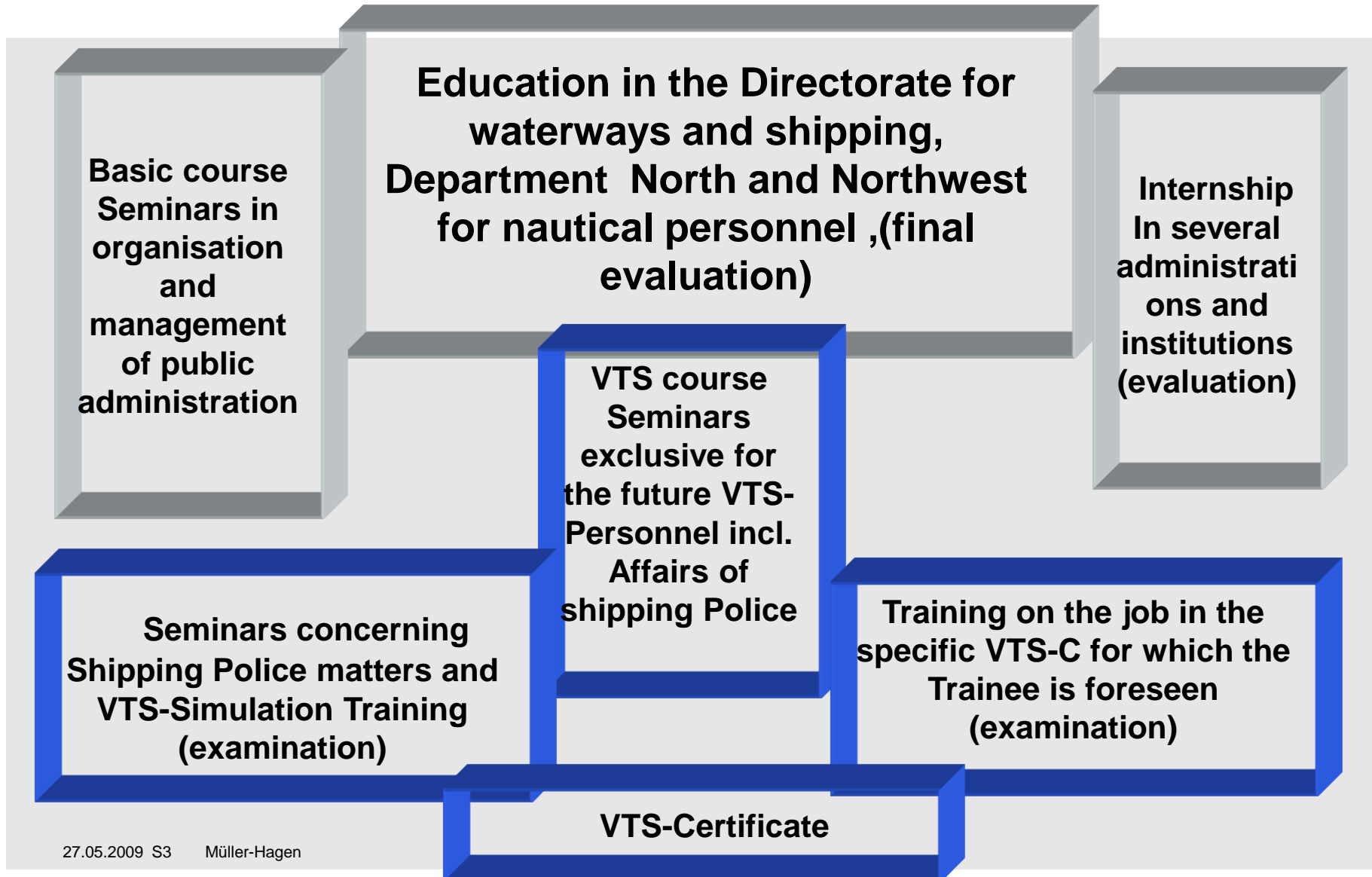
Summery

Maritime traffic Safety managed by Vessel Traffic Service Center Travemünde

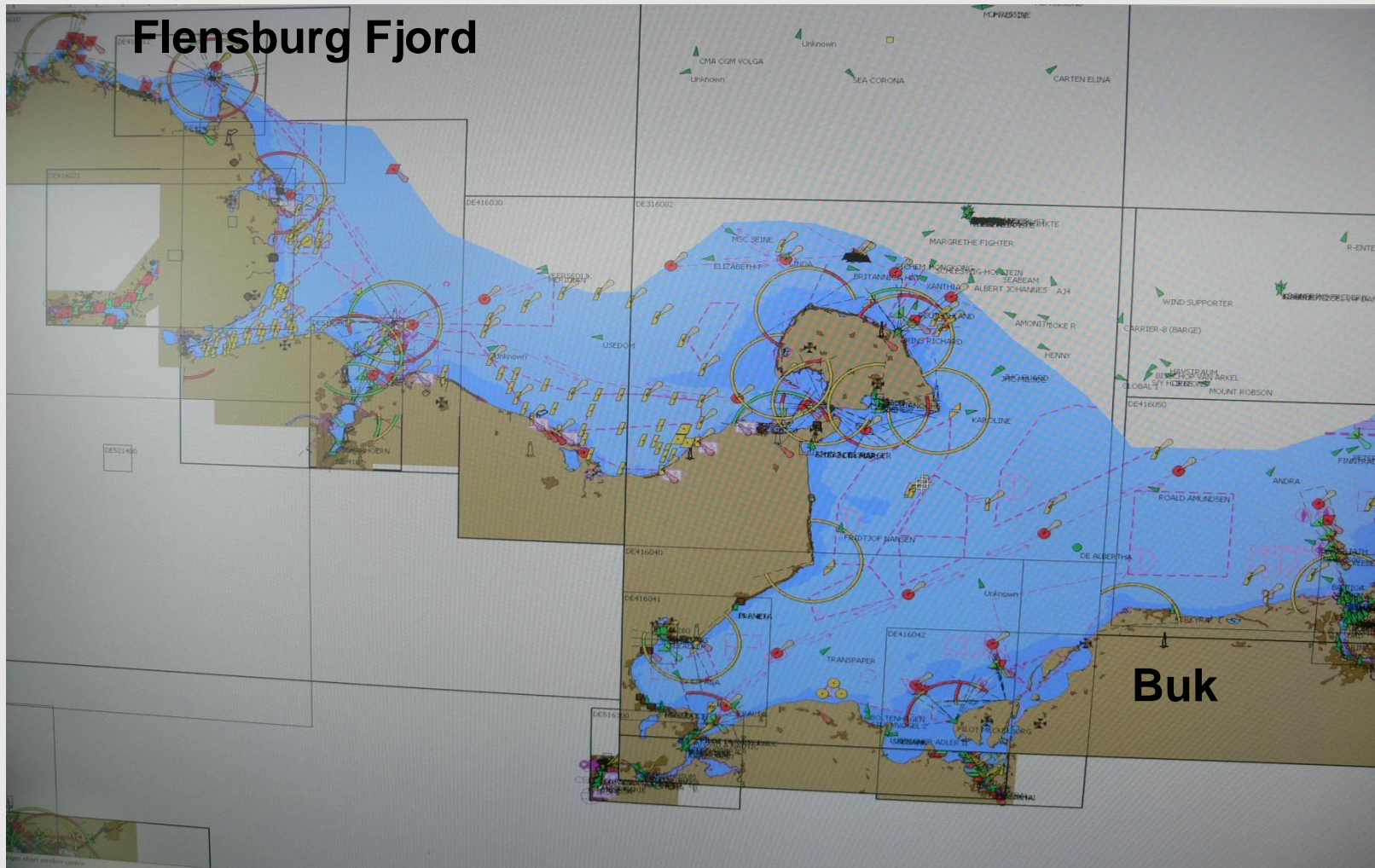


Definition:
General:

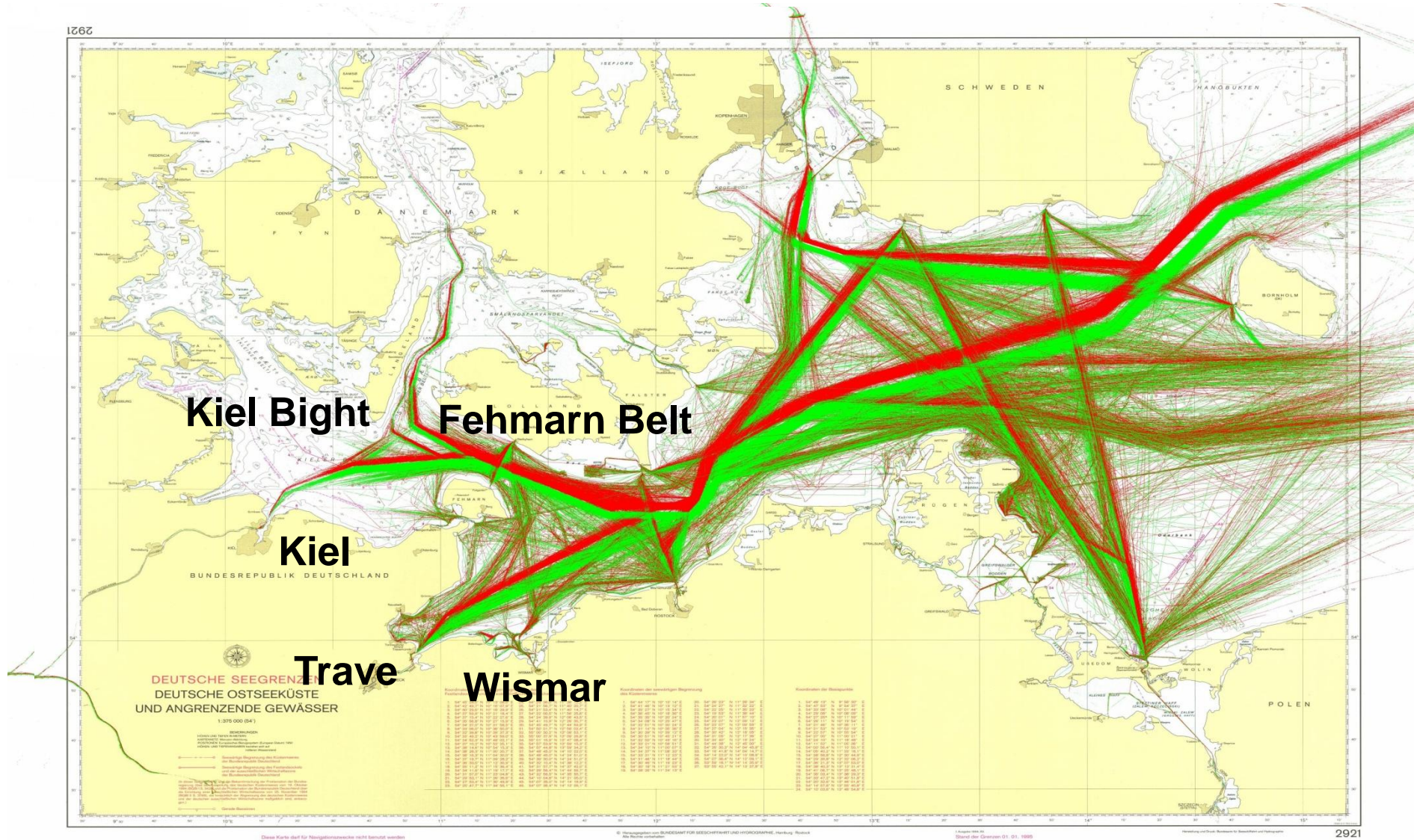
Education of the German VTS-C personnel



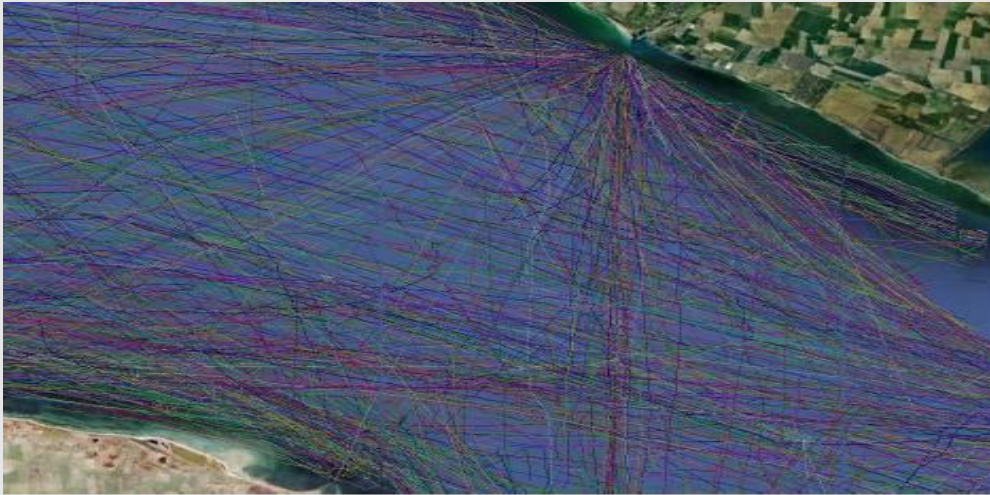
Maritime Traffic Safety in the sea area between the meridian of the lighthouse Buk up to the Flensburg Fjord



Maritime Traffic Safety



Fehmarn Belt



Technical Equipment

Radar

AIS

Camera transmission

Sensors

(environmental data)

Communication:

VHF

E-mail

Fax

Telefon



Three Steps

3 hierarchy steps:

1. = Recognition of the present situation

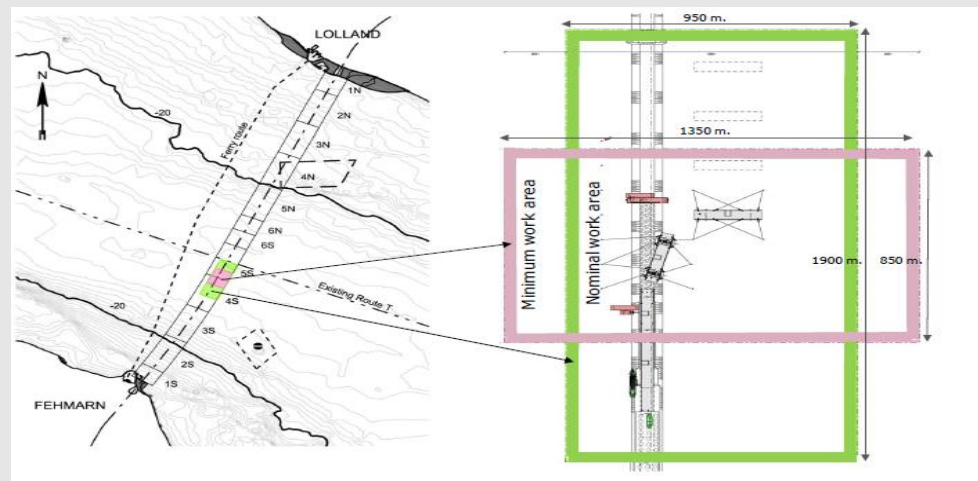
2. = Comparison of the nominal and the present situation

3. = Attribution from the present to the nominal situation

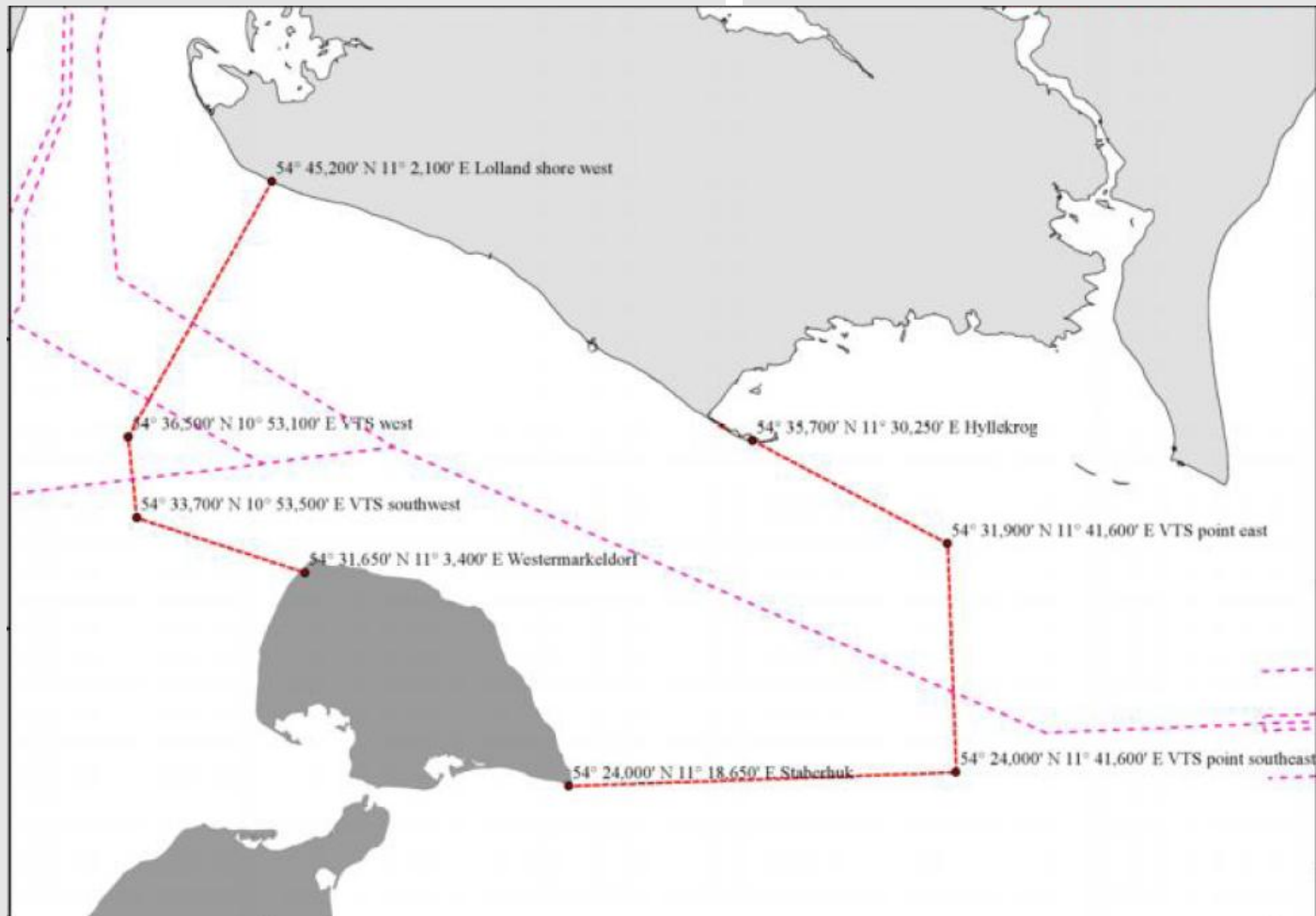
- Measures:
- Traffic informations
- Traffic and navigational assistance
- Traffic regulations up to initiation of measures by own ships, the waterpolice, federal police or customs

Particular risks

- Crossing the main waterway
- Changing of the shipping lanes
- Obstruction in the manouvering space
- Two construction areas, changing locations with different dimensions



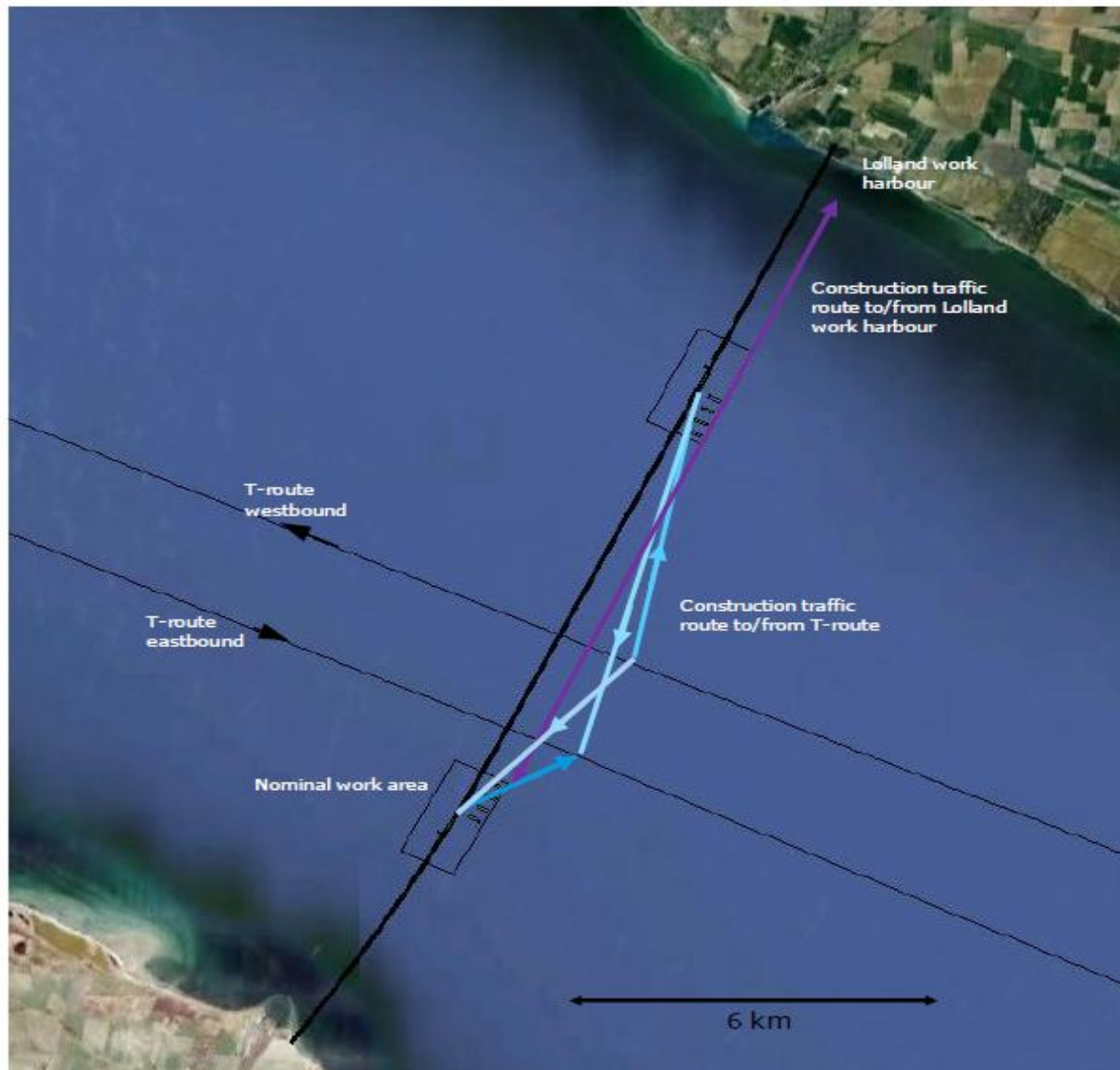
Section „Fehmarnbelt Traffic“



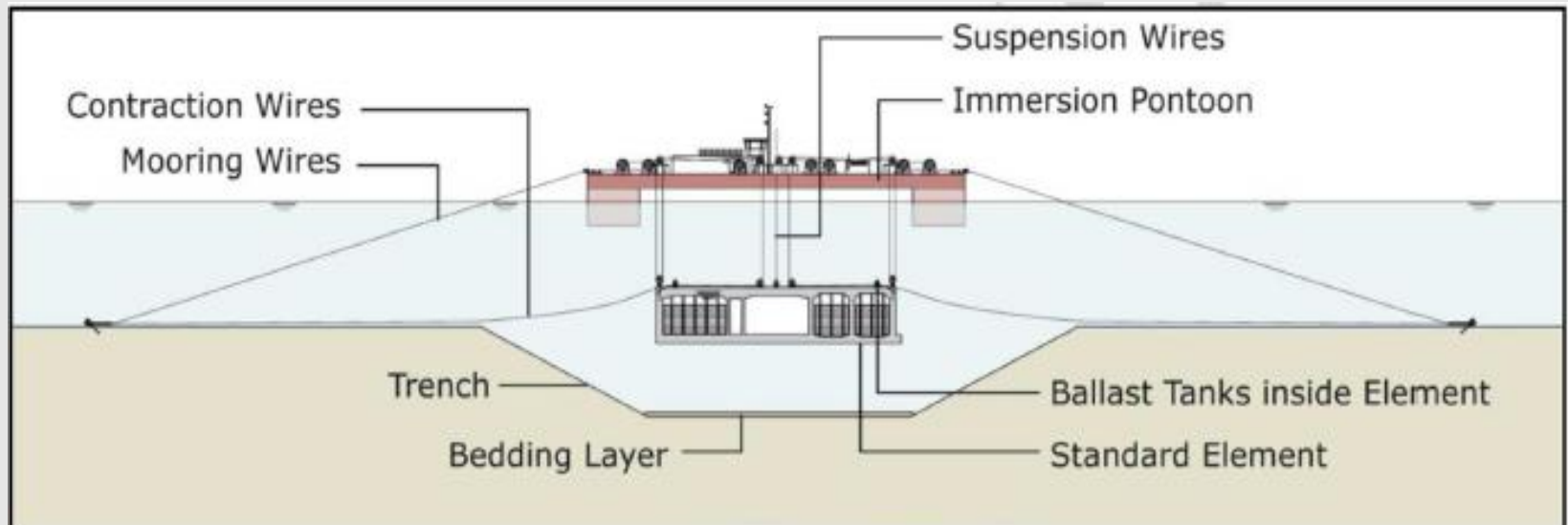
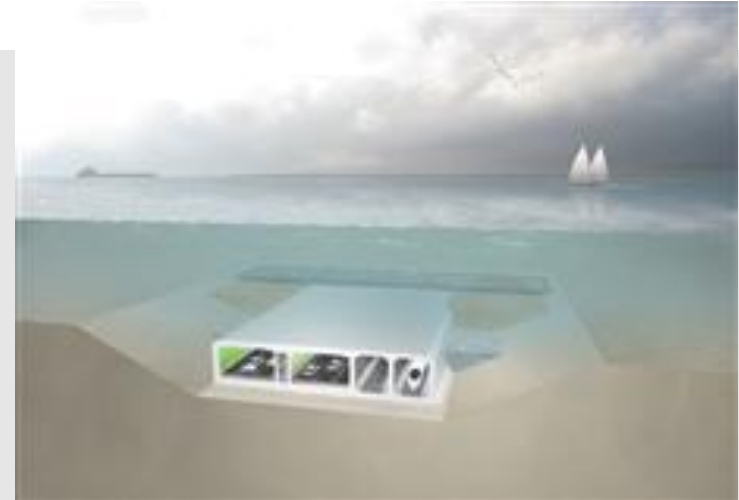
Safety Measures

- Maritime coordination group (examining the measures)
 - VTS (construction phase)
 - Gardvessel (2)
 - Monitoring and managing of the construction traffic
 - Setting marks for areas
 - Optimising of construction works (Dimensions, timetable, location)
- Add on:**
- Placing boys (shallow water, sounding lines)
 - Free Pilot Service
 - Real-Time Simulation (construction phase)
 - tugboats

Construction Traffic



„road works“



Thanks for attention!

