VTS and Shore Center Activities of STM 2017 -2018
(and a little bit of the Seaward)
2010 MonaLisa and later on STM
VTS First Milestone: Radar
VTS Second Milestone: AIS
VTS Third Milestone: STM
VTS or Shore Center?
A bit more complicated than I thought…
300 Testbed Vessels.
A touch of luck! 😊 Baltic Bright.
First test Route and TXT exchange
Second Test Approaching Dover Strait
Hard Labour
Today we have at least this – an Infrastructure, an Internet, a Skeleton
This Infrastructure, this Internet, this Skeleton is now used for:
Time for the other side of the coin
The other side
First tests
The small world of STM

• Route Exchange over AIS
The small world of STM

• Route Exchange over AIS
• Baltic Navigational Warnings
Baltic Navigational Warnings
The small world of STM

- Route Exchange over AIS
- Baltic Navigational Warnings
- Route Optimization
The Future Big World of STM
European Maritime Simulation Network (EMSN)

- 13 connected simulation centers
- 7 EU countries
- Approximately 30 participating vessels
- 500+ professional mariners, VTS Operators and MRCC
- 4 weeks of testing
- Complex traffic scenarios
Frequency of Interactions Between Ship and Shore Center

- VHF
- Route cross check
- Route Suggestion
  - (Shore to ship)
- Chat (TXT message)
We Observed a Change in…

- The pattern of interactions
- The amount of VHF traffic
- The amount of total interactions between ship and shore
Interactions Between Ship and Shore: Baseline vs. STM Services

VHF/Total Interactions

- **Baseline**: 153 interactions
- **STM**: 357 interactions (↑133%)
- **VHF Traffic**: ↓35%
- **STM Services**: 258 interactions
- **Total Communications**: 357 interactions

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Connecting Europe Facility
Further Research Needed

• Workload
  • Increase, decrease, or shift?

• Operational changes?
  • Training
  • Regulations
  • Equipment Design

• Safety and Efficiency
“This is a historical moment for VTS. Today, navigators do not include local advice and knowledge (e.g. from pilots or VTS) in the route planning process which is a disadvantage. STM will improve the quality of route planning and thus improve safety and operational efficiency”.

- STM Participant