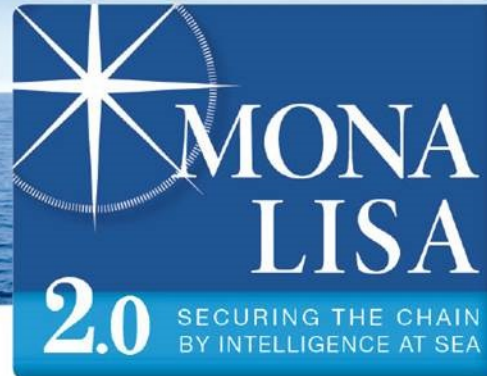


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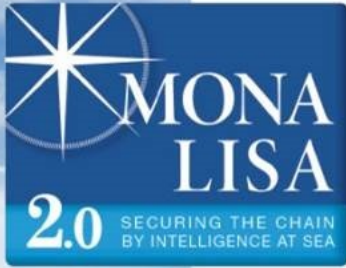


# Per Setterberg

## Act 1 Operations & Tools



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# Act 1 in an STM context

## ACTIVITY 2 STM Target Concepts:

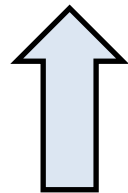
- Port CDM
- **Flow Management**
- **Strategic Voyage Management**
- **Tactical Route Management**
- SWIM

## ACTIVITY 1 Implemented services (EML / STCC)

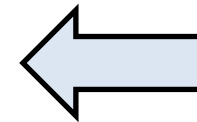
- Single reporting area
- Green routes  
(route validation & optimization)
- Enhanced monitoring
- Dynamic No-Go areas
- Tactical route exchange
- Shore based Deep Sea Assistance

## Simulator Tests

European Maritime Simulator Network (EMSN)



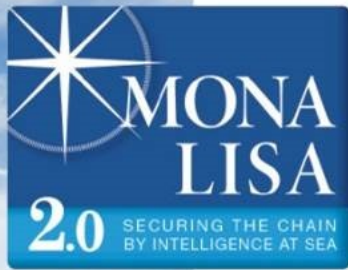
**Formal Safety Assessments (FSA)**



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# Midterm Findings & results

- A simulator network allowing for testing of STM and e-nav services
- Support tools to detect anomalies and suggest mitigation
- An infrastructure for maritime information exchange

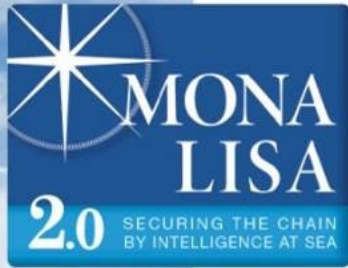
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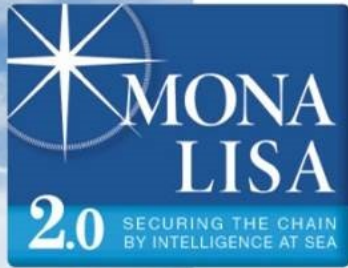
# Maritime information exchange

- With IEC-61174 ed 4, nav systems will exchange voyage plans
- Service providers and users will meet in a Maritime Cloud
- From point-to-point to SWIM

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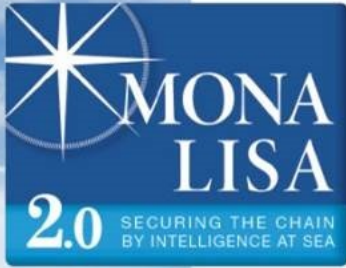
# Support tools & MSP

- VTS operators can serve 3-10 ships
- There are 2000 simultaneous ships only in the Baltic Sea
- STM relies on anomaly detection and decision support tools
- A platform for Maritime Spatial Planning

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# A simulator network...

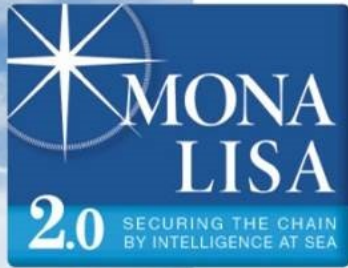


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4-5 November

# A simulator network...

YOUTUBE Address :

<http://youtu.be/QElucD9gUgo>

2.0



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