Per Setterberg
Act 1 Operations & Tools
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)**

**Co-financed by the European Union**
- Trans-European Transport Network (TEN-T)
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
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
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
A simulator network...
A simulator network...

YOUTUBE Address:
http://youtu.be/QElucD9gUgo