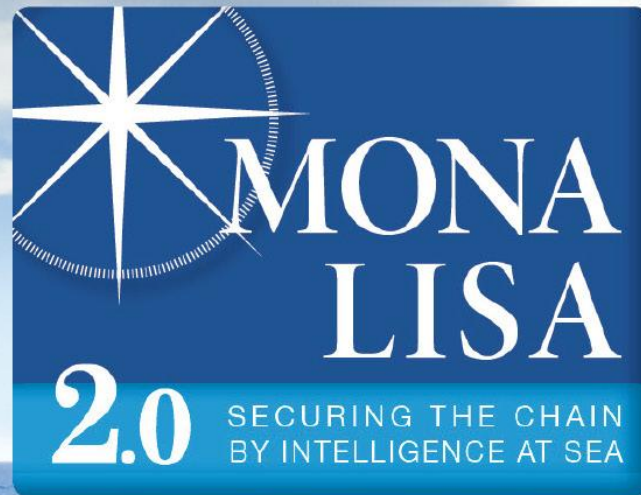
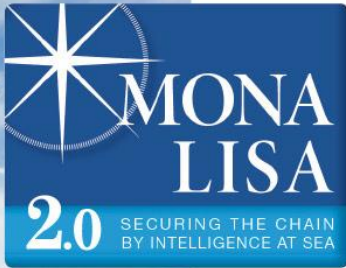


e-Navigation Underway 2013
Ulf Svedberg
Swedish Maritime Administration



2.0



Scope of MONALISA 2.0



2.0

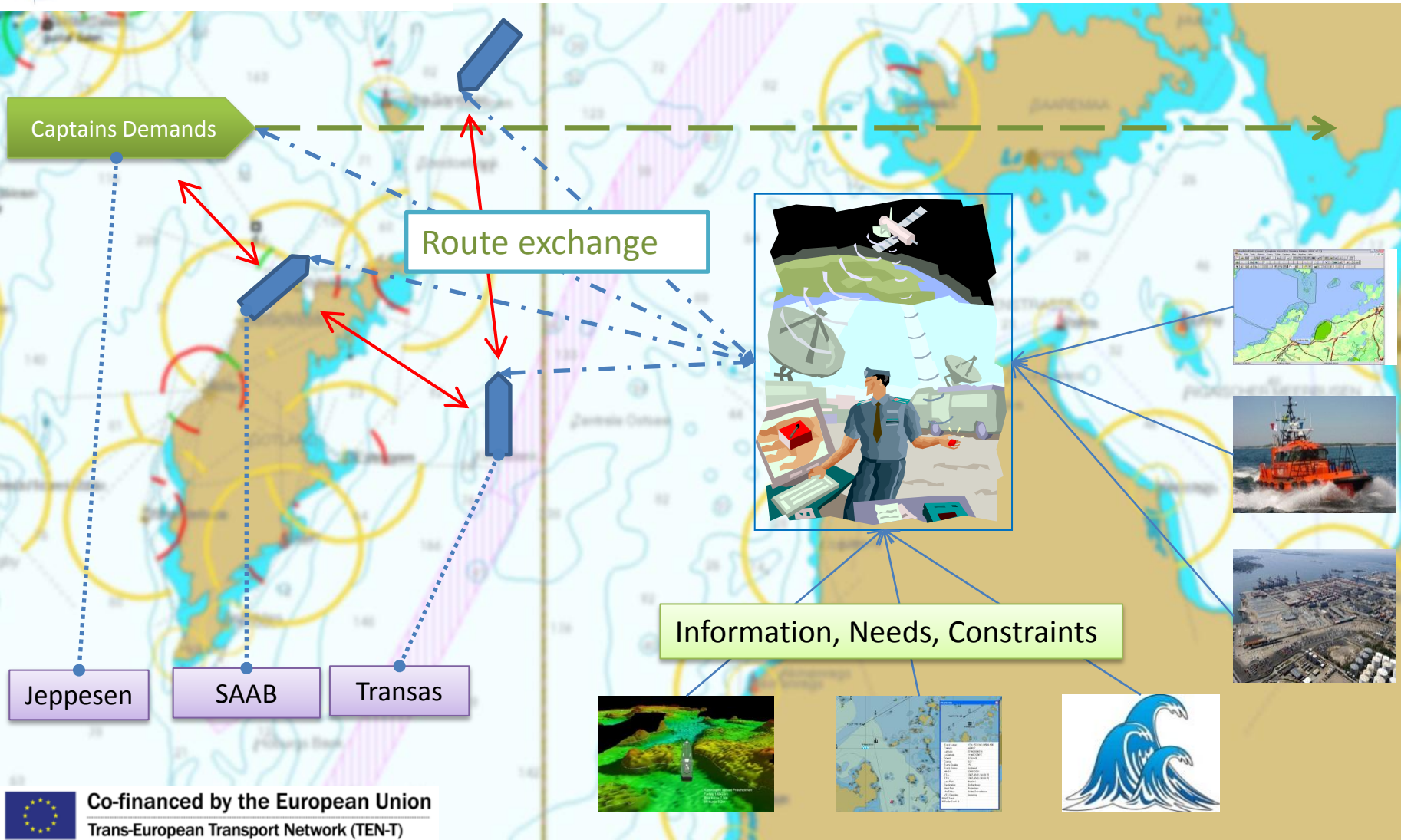
2.0

Route optimization or Voyageplans

Information	Needs	Constraints
Weather	Earliest possible ETA	UKC and Airdraft
Berth available	Economic route	Landmasses
Pilot available	Good weather	TSS Areas
MSI	Cargo & Charterers	No-Go Areas



Route construction



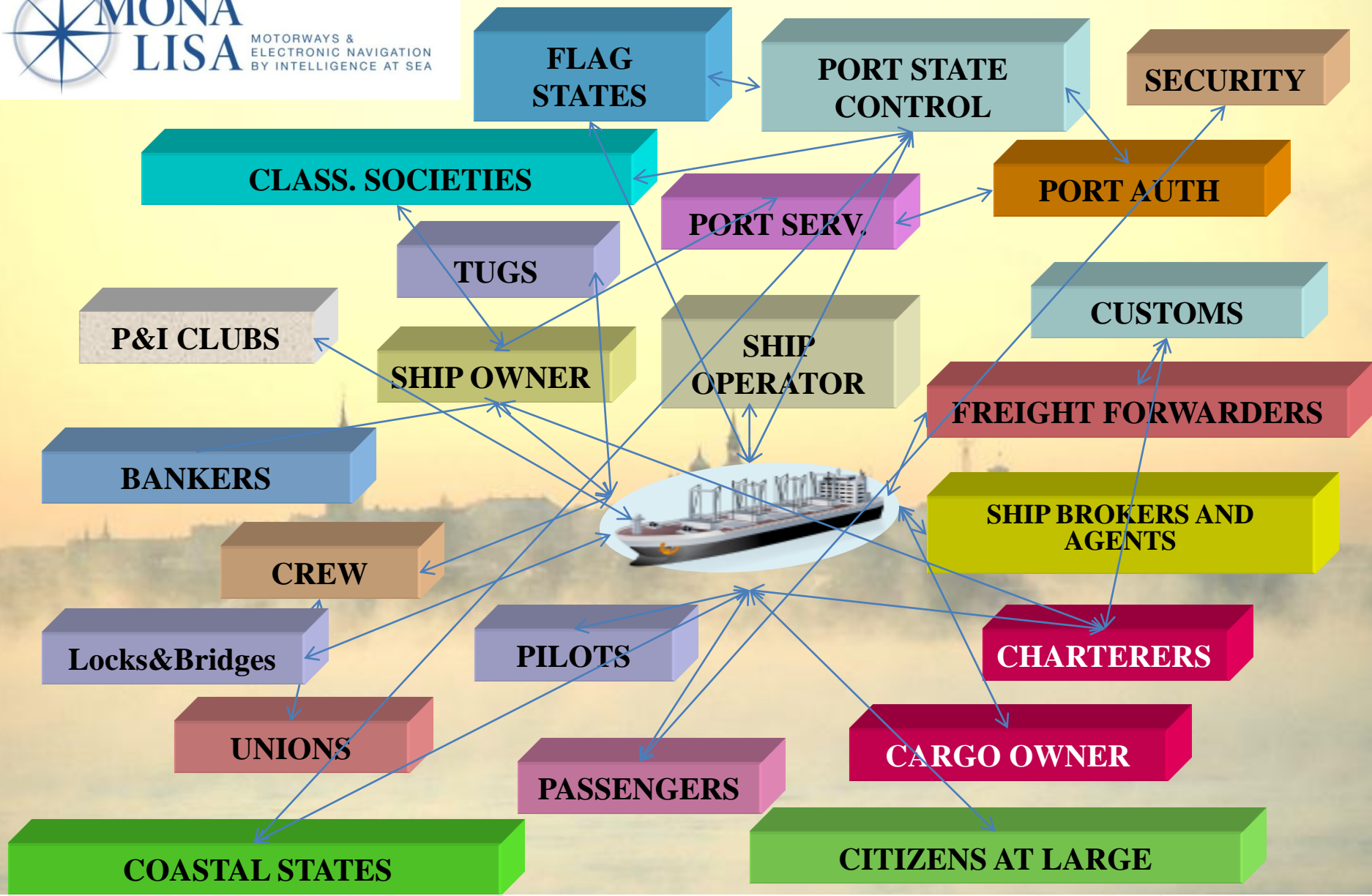
Information Management

Need to Know

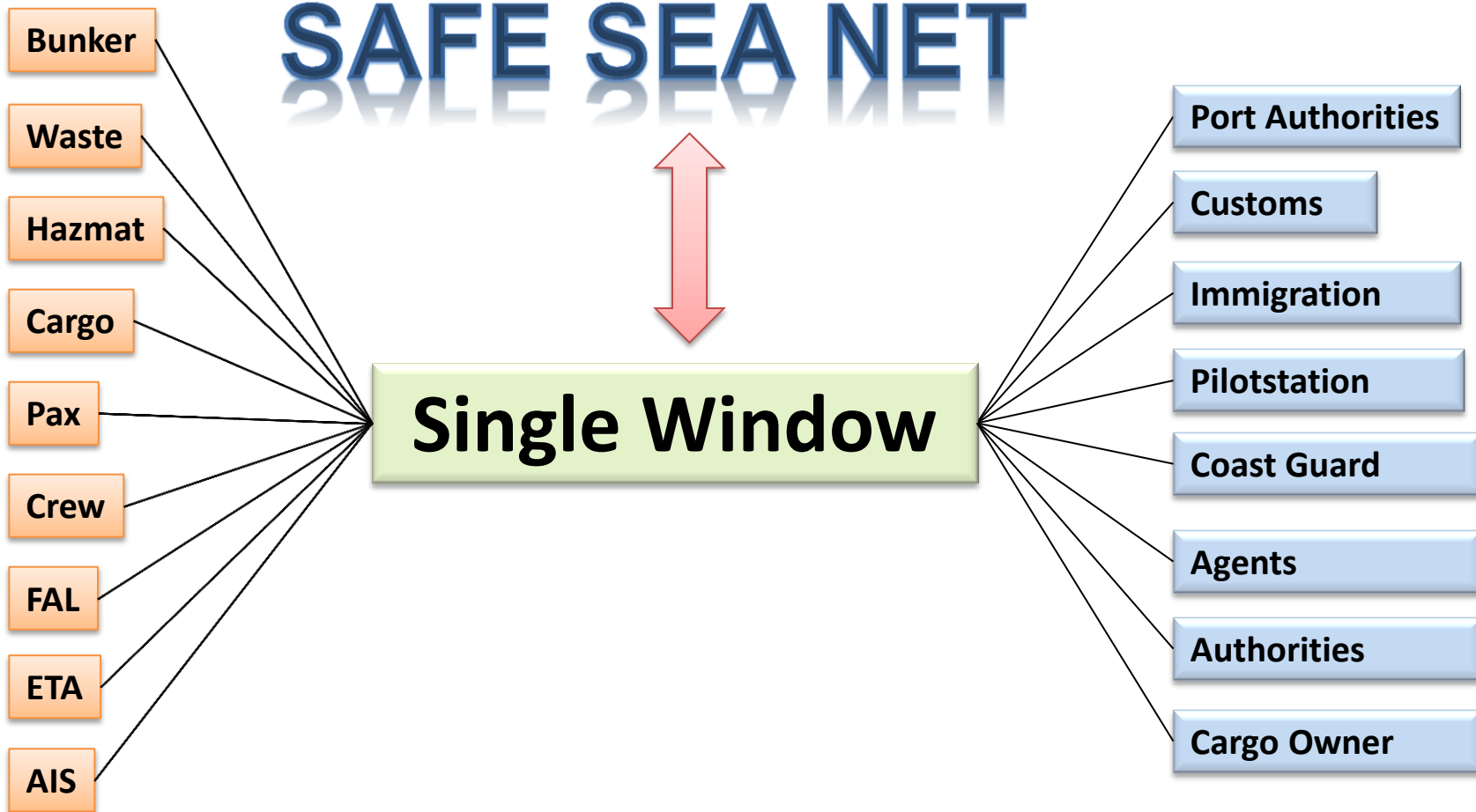
Need to Share

Control the Flow !

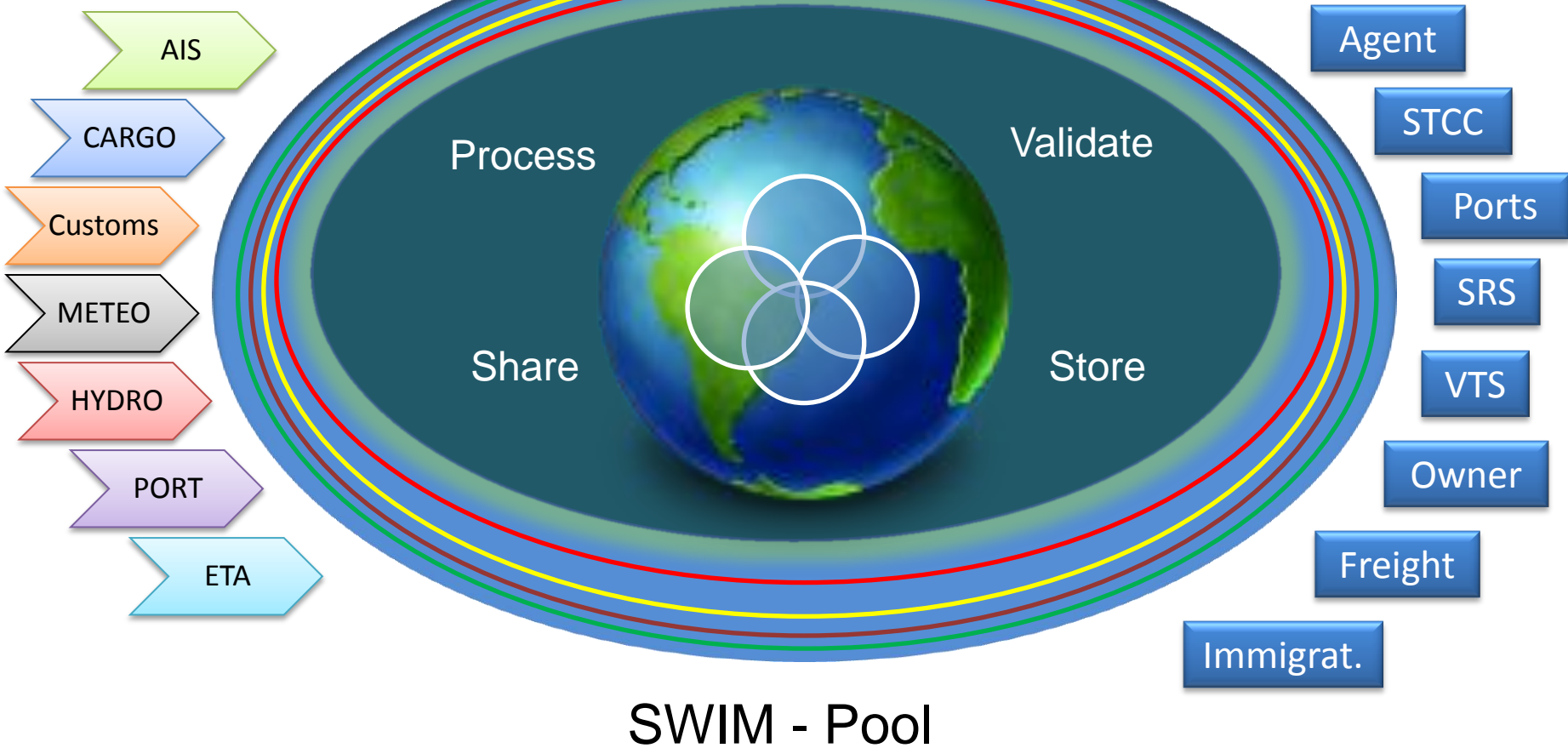




SAFE SEA NET



FLOW OF INFO



System Wide Information Management

**SESAR
Europe**

Single European Sky ATM Research

EU- Commission:	350 mio €
TEN-T	350 mio €
Eurocontrol	700 mio €
Industry	700 mio €
Grand Total	2,1 Bill €

**Next Generation
USA**



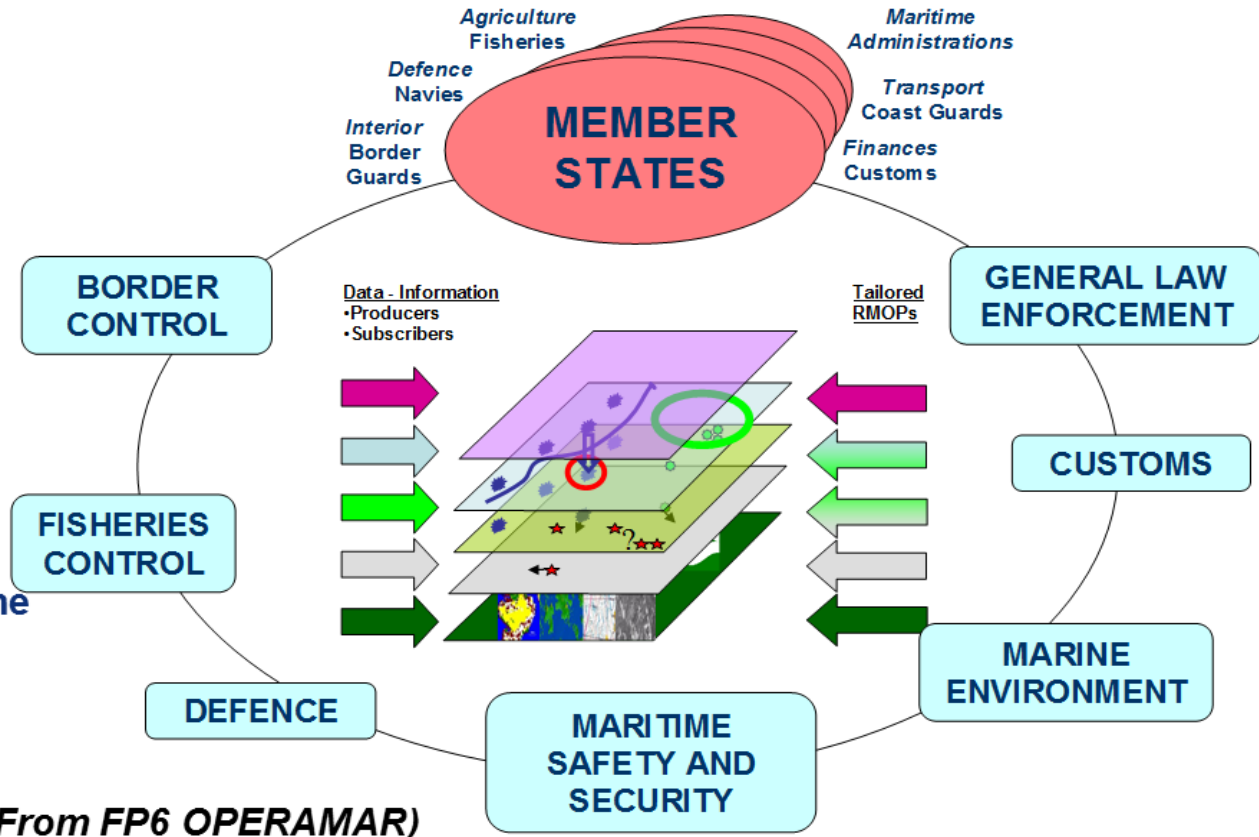
Common Information Sharing Environment

DG MARE CISE Project

USER COMMUNITIES

A graphic vision to describe the CISE:

- a global fluidity of data,
- a decentralized services-oriented solution,
- a multilayered Recognized Maritime Picture for each User Community



Federation of
Information

Maritime-Web

Sea Traffic
Management





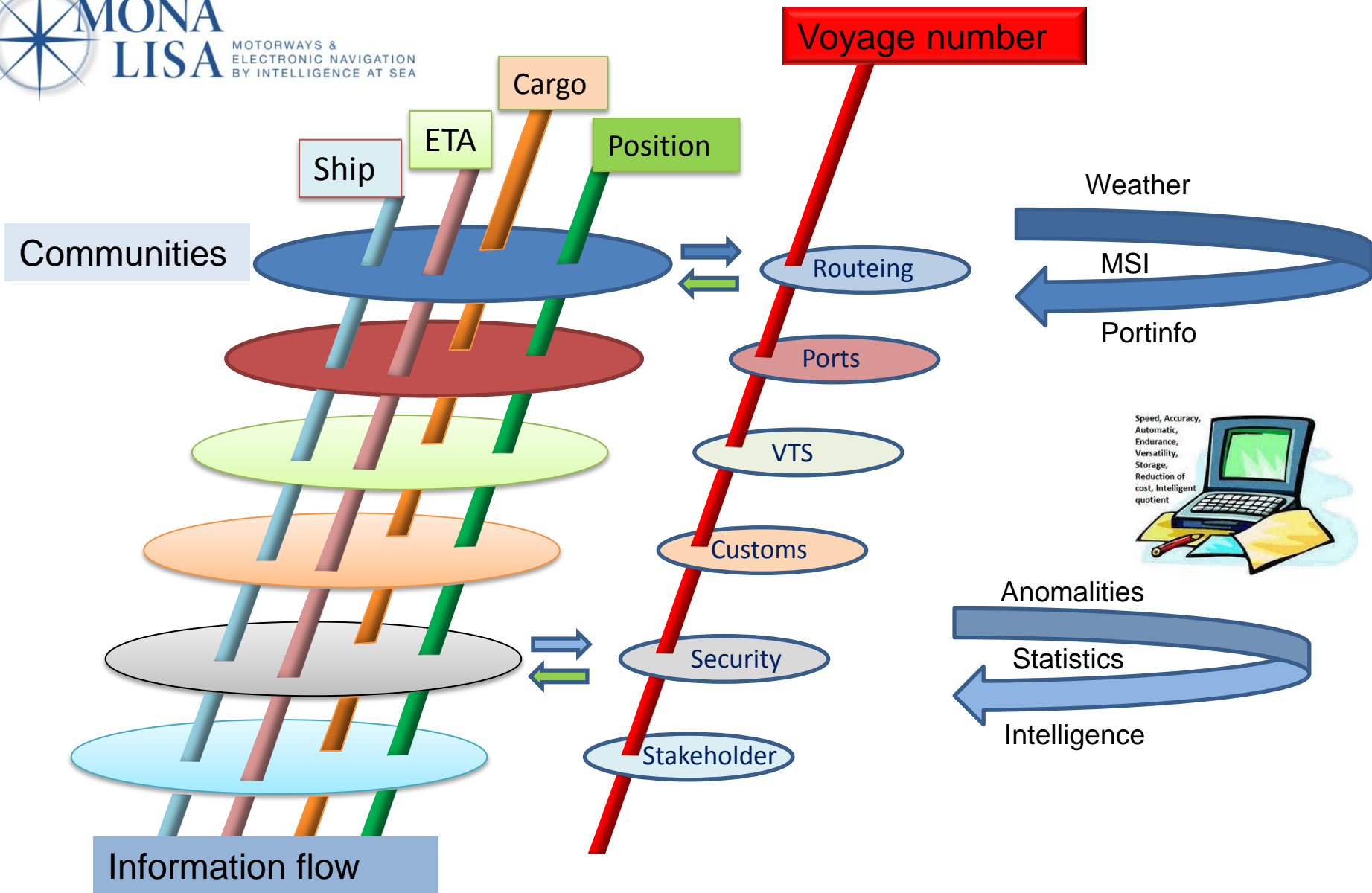
Today

Surface Based
Operations

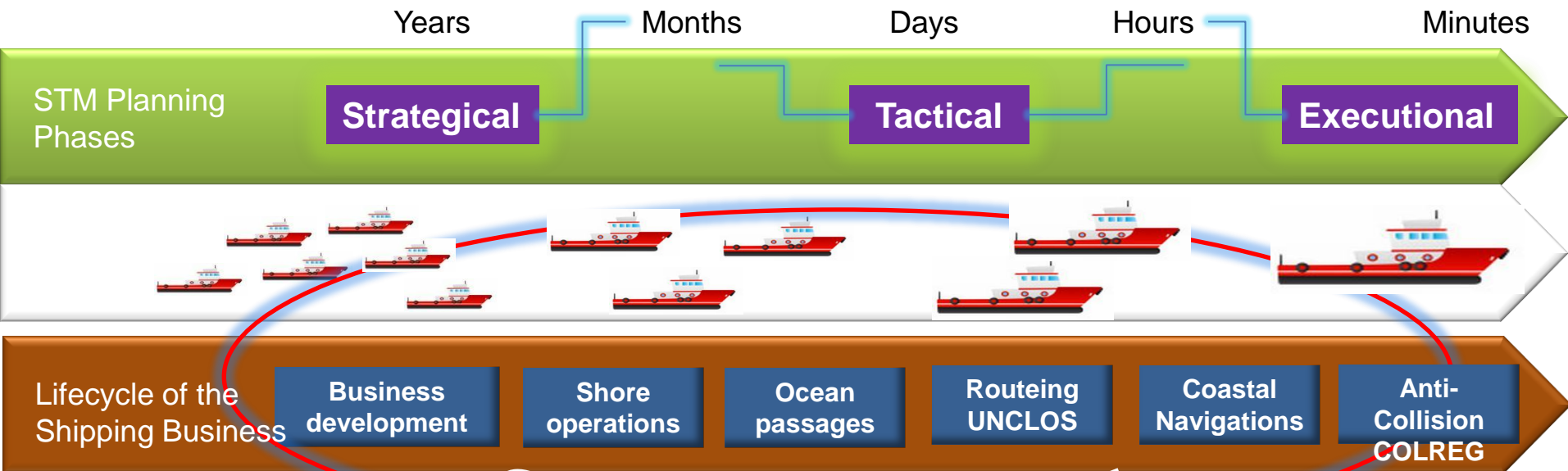
To come

Voyage Based
Operations





Voyage no's in the complete STM process



SWIM...POOL

Shipowner Strategic Planning
Marketings
Schedules
Cruise industry
Politics
Major events
IMO and SOLAS impacts

Charterings
Long term contracts
Sharing conferences
Berthings preps
Port operations

Voyage plans
Weather routeings
Maritime spatial plans
Coast Routeings
Monalisa
Fairway limitations

Open sea pilotage
Anti- Collision
Close encounters
TSS, SRS and VTS
Areas
Congestion Planning

Pilotage
Locks
Tugs
Portsafe
PPU
Arrival





Thank You!

ulf.svedberg@sjofartsverket.se



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Trans-European Transport Network (TEN-T)