



# Selex-SI Interoperable Simulations for Comand and Control

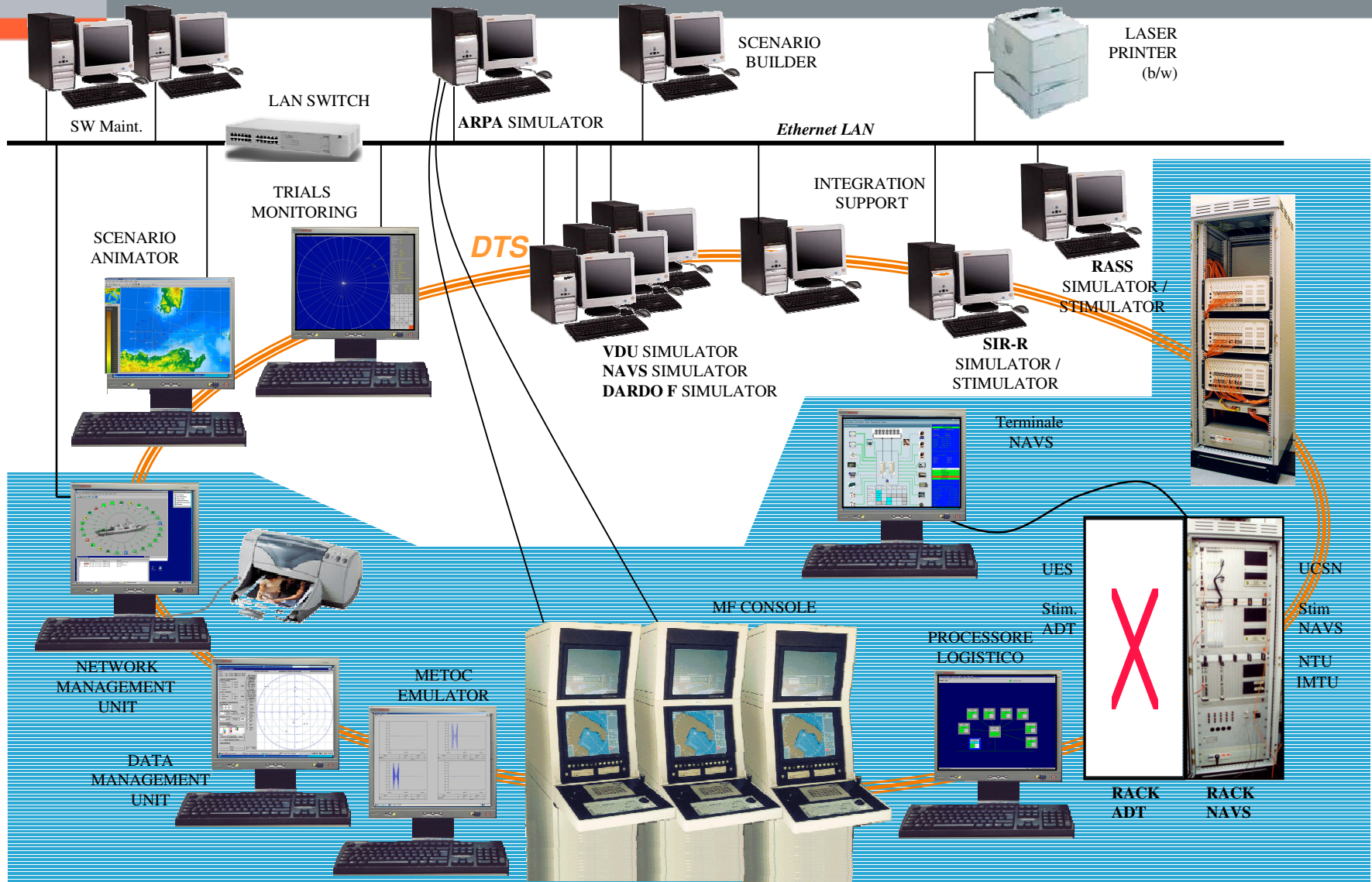
Gian Piero Corbellini  
14 febbraio 2007

## What is a SIAC?

- Shore Integration & Acceptance Centres (SIACs) are an example of how the Synthetic Environment (SE) can be applied to systems integration and interoperability processes.
- SIACs are integration environments composed by a simulation system able to stimulate the Combat System representation. The Simulation Environment is composed by a Real World Simulator and by Combat System Subsystems Simulators and Emulators.



# NUMC SIAC: Real parts, simulated parts and tools



# SIACs: Applications

- SIACs represent a basic element for complex simulation systems for the support of different activities:
  - System Integration
  - Acceptance before site/on board installation
  - Interoperability Testing
  - Training
  - Remote Support

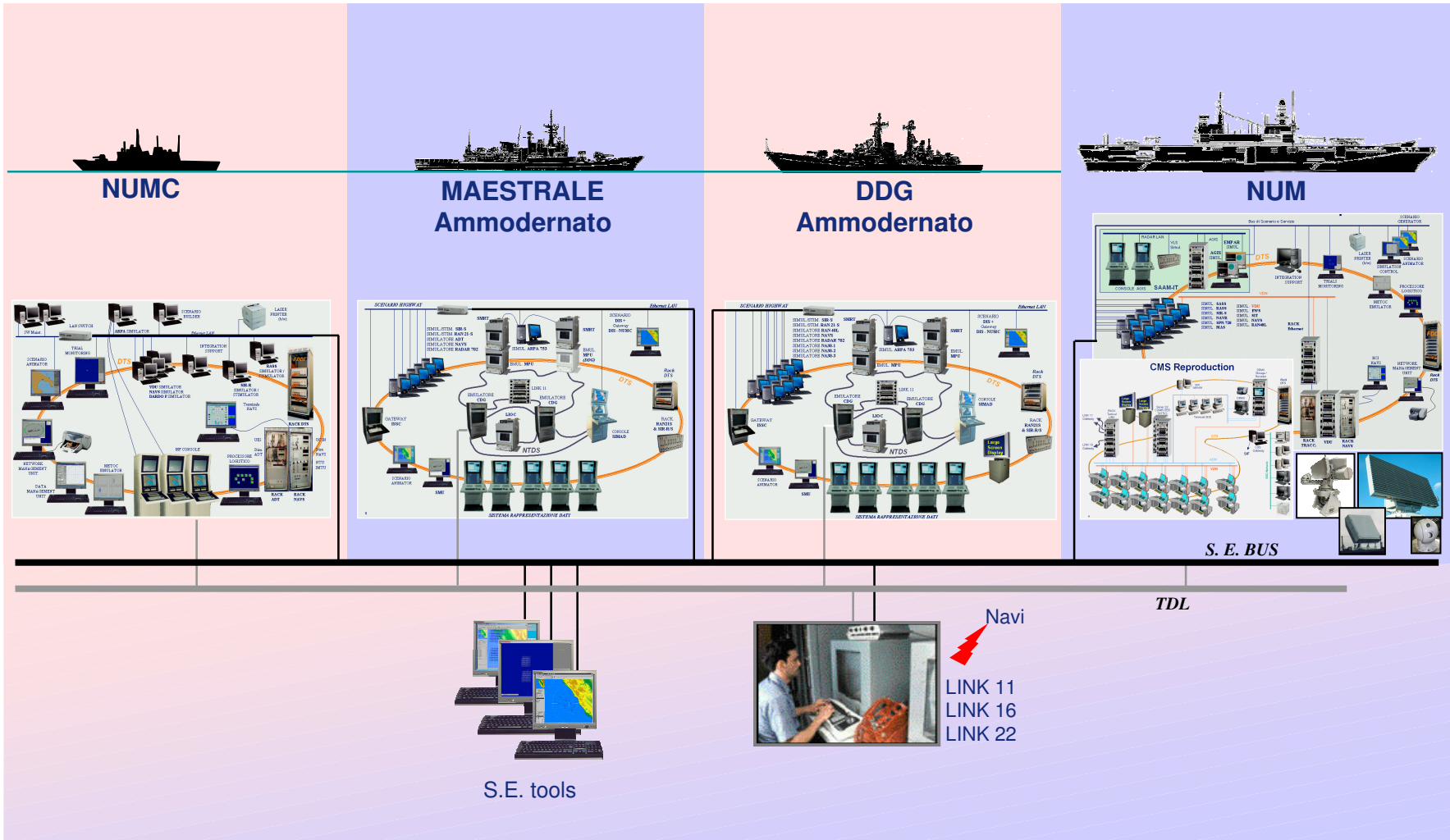


# MARICENPROG SIACs

## SHORE INTEGRATION & ACCEPTANCE

REMOTE SUPPORT

TRAINING



# NUM SIAC



# NUM SIAC

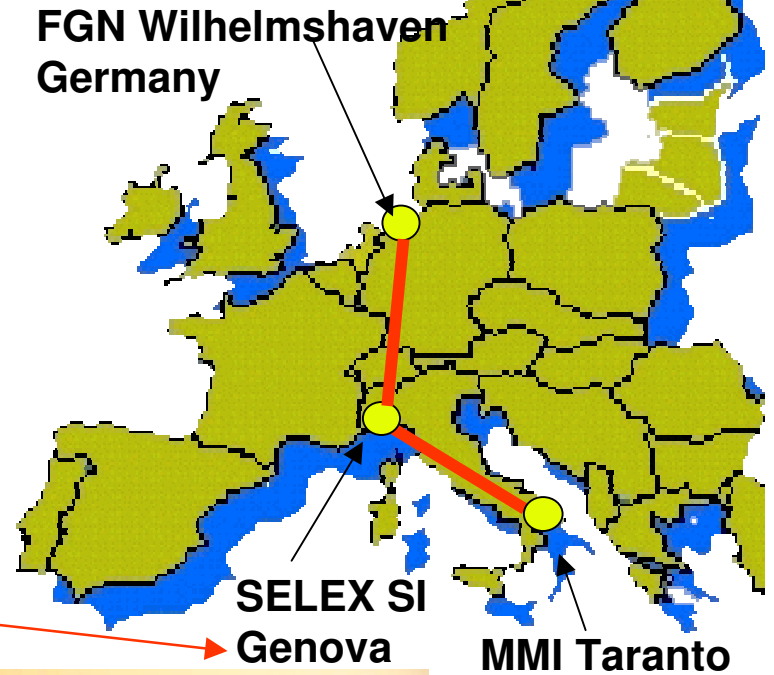
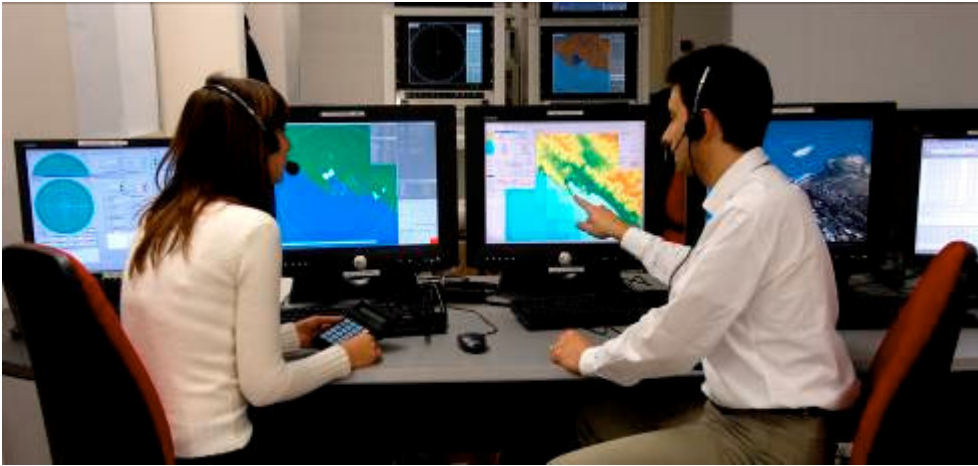


# Refitted Maestrale SIA





# DEP – Present Trials



# CDEP near Future Trials

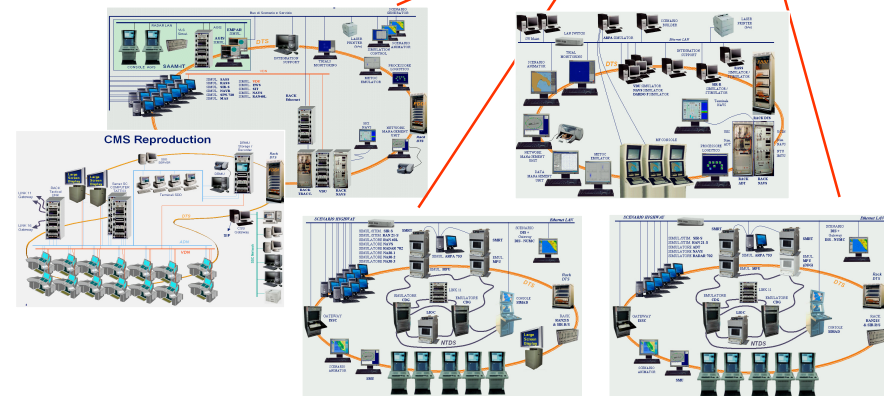
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NC3A Den Haag  
Nederland

RN Portsmouth  
England

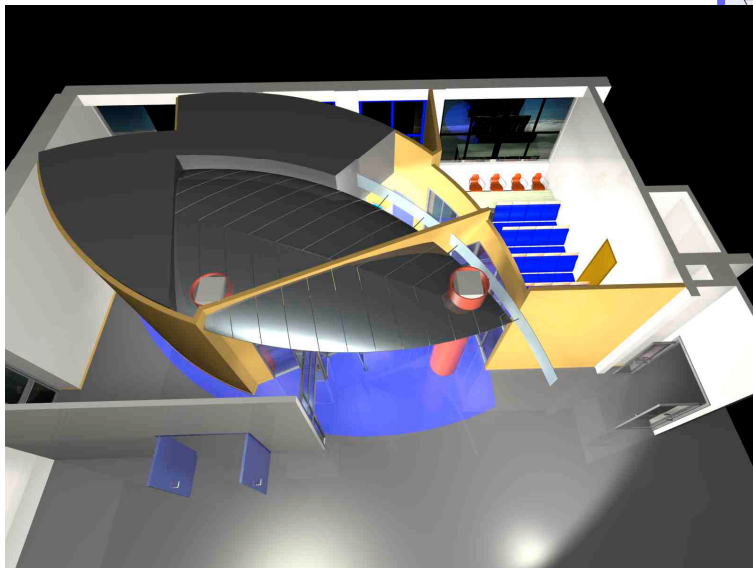
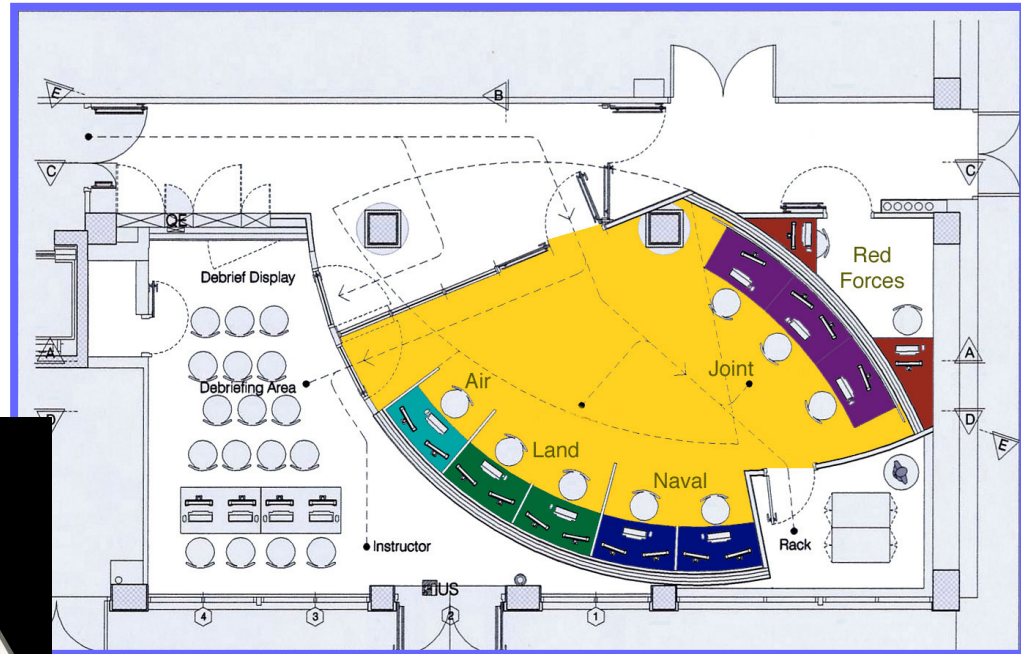
NAVSEA CDSA  
Dam Neck, VA

ITN Taranto  
Italy



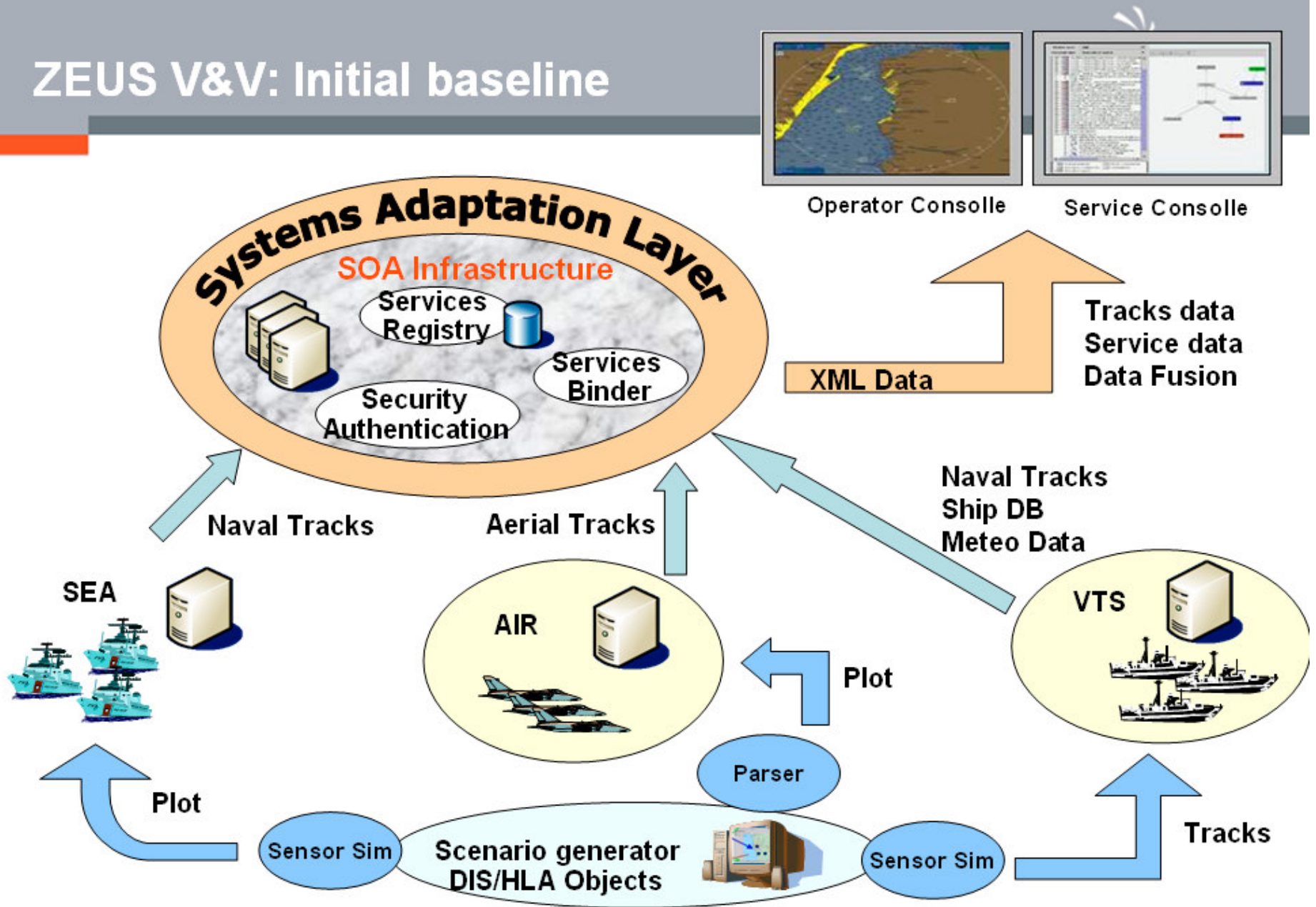
# ZEUS Test Bed

The exposed approach for the Naval Combat Systems could be applied also to other systems.

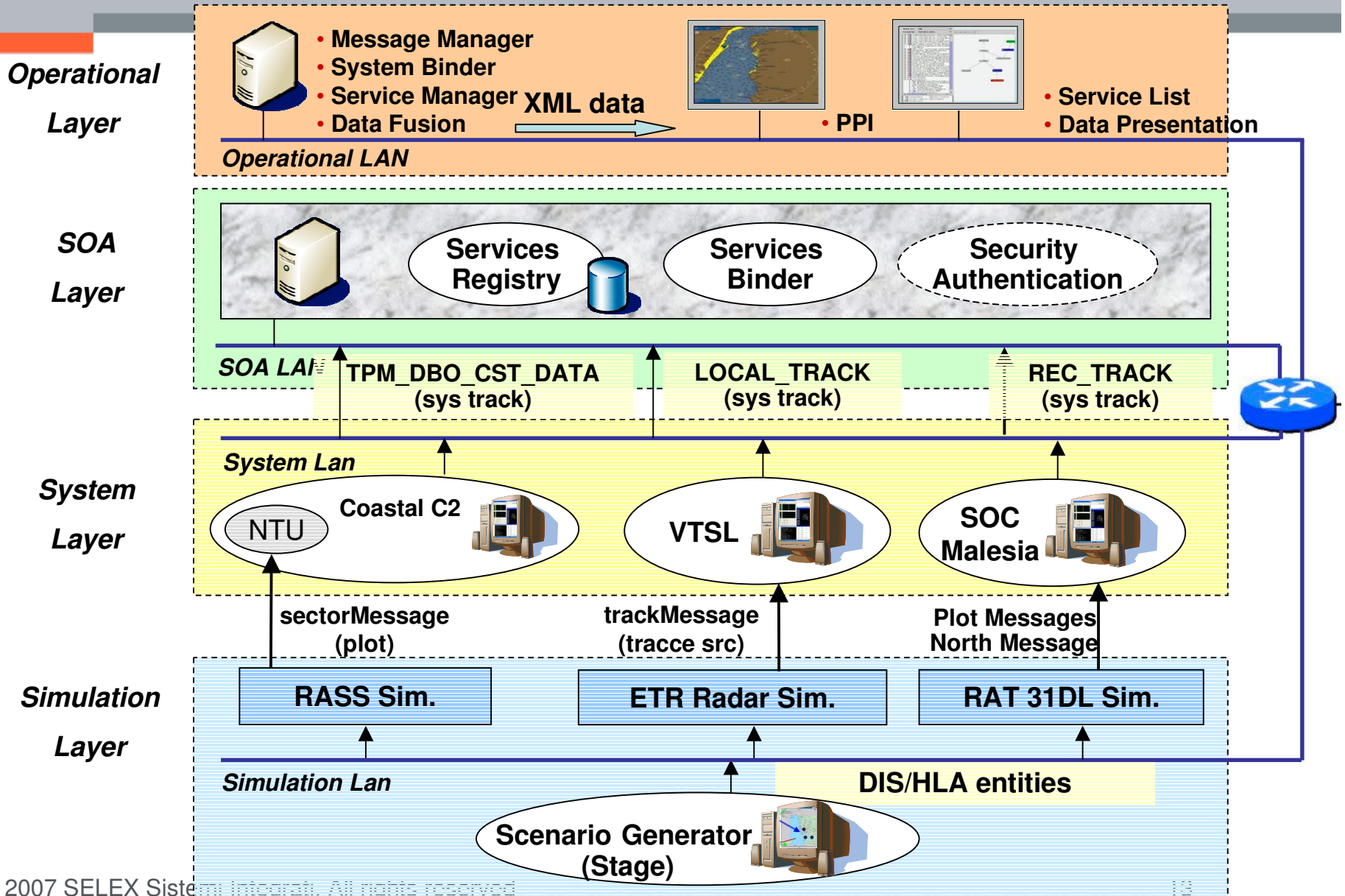


In particular standard and modular simulation can be effectively applied to Large Systems integration.

# ZEUS V&V: Initial baseline

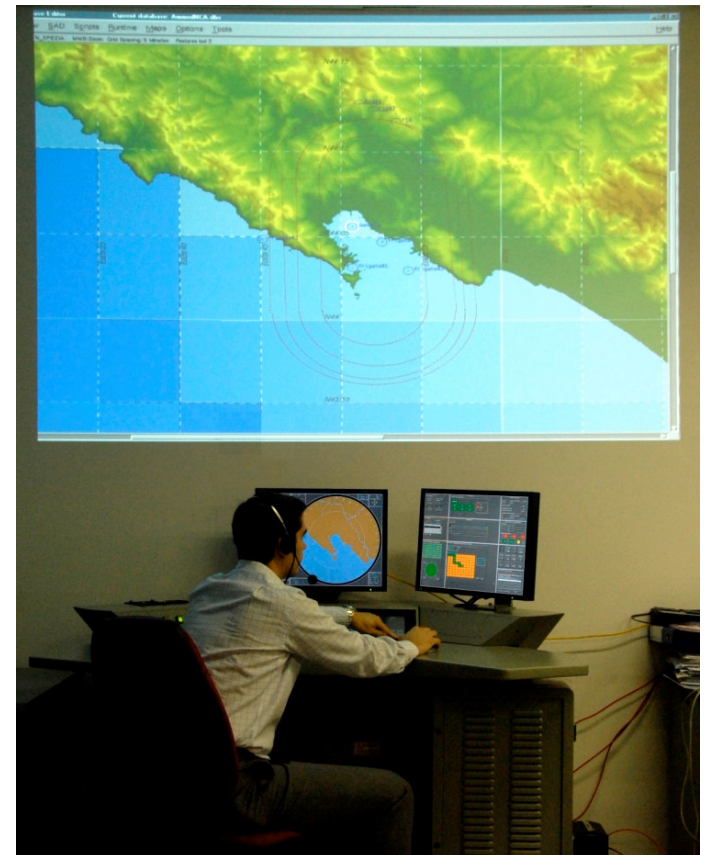


# ZEUS V&V: Initial baseline



# Conclusions

- Standards and modularity represent the starting point for the interoperability of the simulations.
- Interoperable simulations can be combined in different configurations in order to test the interoperability of different Command & Control systems
- In this way the interoperability of the Simulation system represent the basic condition for the development of environment for the validation of the interoperability of Command & Control systems at different levels (tactical, strategic, planning).





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