

# **EMSA WORKSHOP**

## **21 – 22 Nov. 2005**

### **VESSEL TRAFFIC MONITORING AND ITS MEDITERRANEAN DIMENSION: THE ITALIAN APPROACH**

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# Traffic monitoring

Maritime monitoring and safety assured by:

- *Traffic Separation Schemes*
  - In the Strait of Messina
  - In the Strait of Bonifacio
  - In the Adriatic Sea
- **Ship Reporting System (SRS)**
  - Bonifacio Traffic
  - Adriatic Traffic
  - ARES
- **Vessels Traffic Services;** integrated system partially already realized and now in pre-operational and personnel training phase.





The Italian Integrated System for the Monitoring and Coordination of the Maritime Traffic and for the Sea Emergencies management.

Fulfils the requirements of the Italian

- “competent authority”, the Ministry of Transport and Navigation,

and of the

- “VTS authority”, the Coast Guard.

# Related to VTS studies carried out at national and regional level

- A comprehensive feasibility study about the realization of a national VTS was carried out through the years 1988-1990;
- in 1996-1997 the “MOVIT” study, in the frame of the IVth FWP, have been carried out to investigate the feasibility of a mobile VTS unit;
- in 1998-1999 the “VTMIS-NET study, in the frame of the Vth FWP, have been carried out to demonstrate the feasibility of enlarged interconnectivity among different VTS's.

# Italian VTS already operating Centres



LA MADDALENA



GENOVA



HEADQUARTERS



TRIESTE



BARI



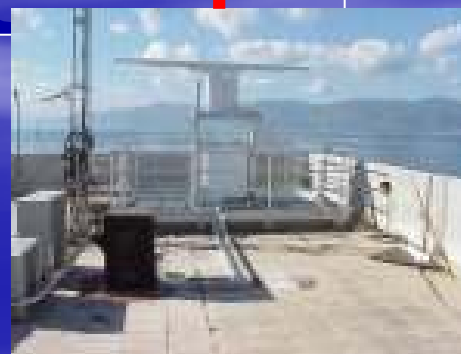
TARANTO



TRAPANI



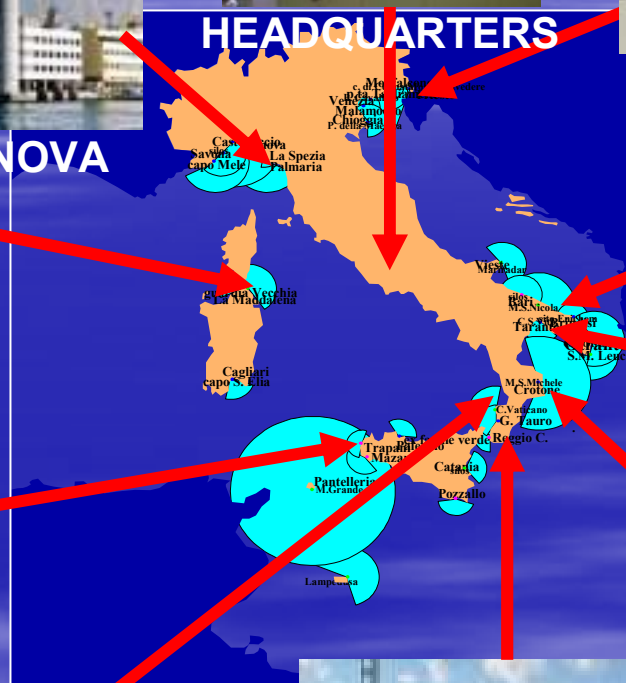
GIOIA  
TAURO



REGGIO CALABRIA

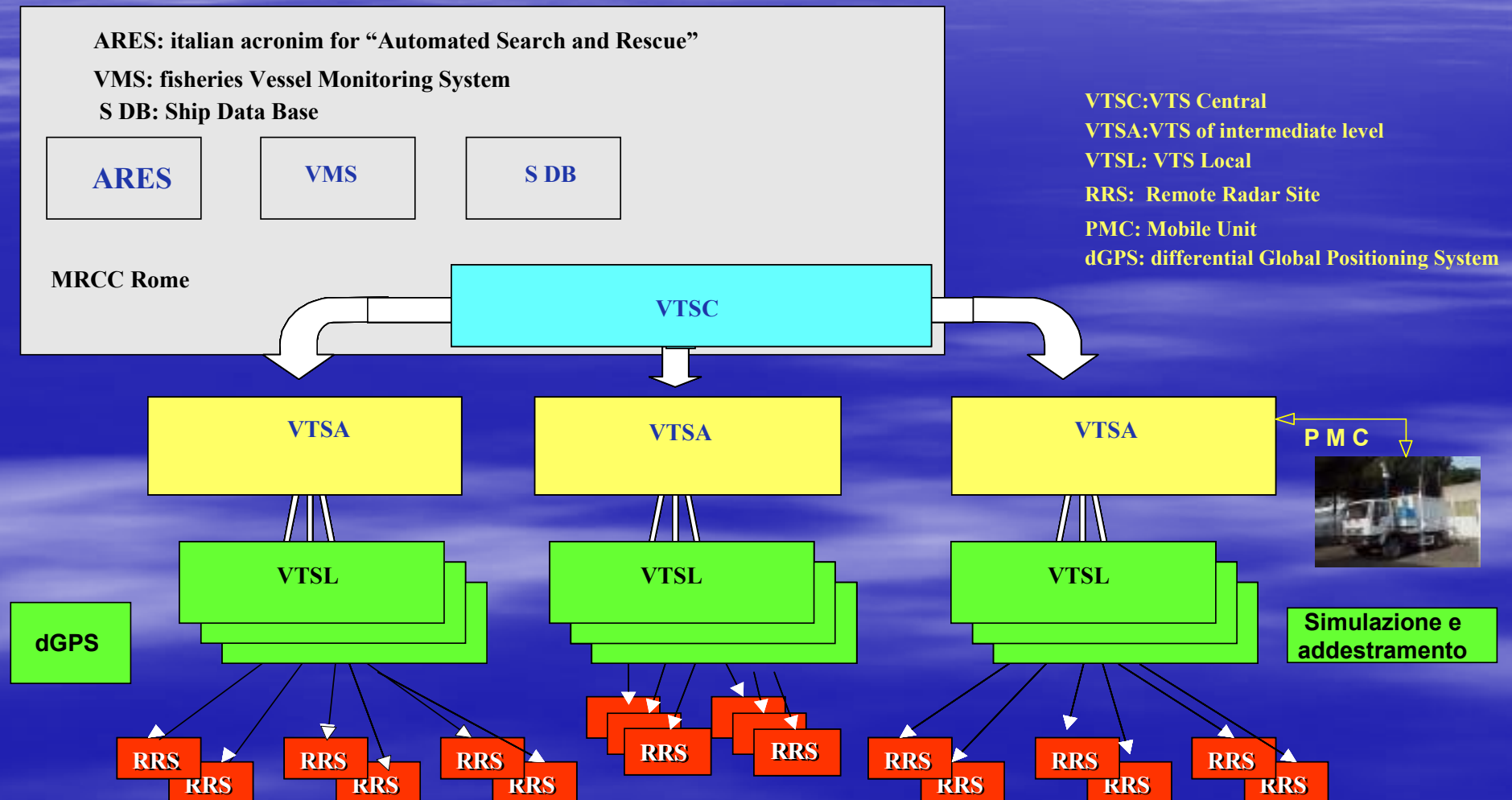


CROTONE





# The VTS Integrated System

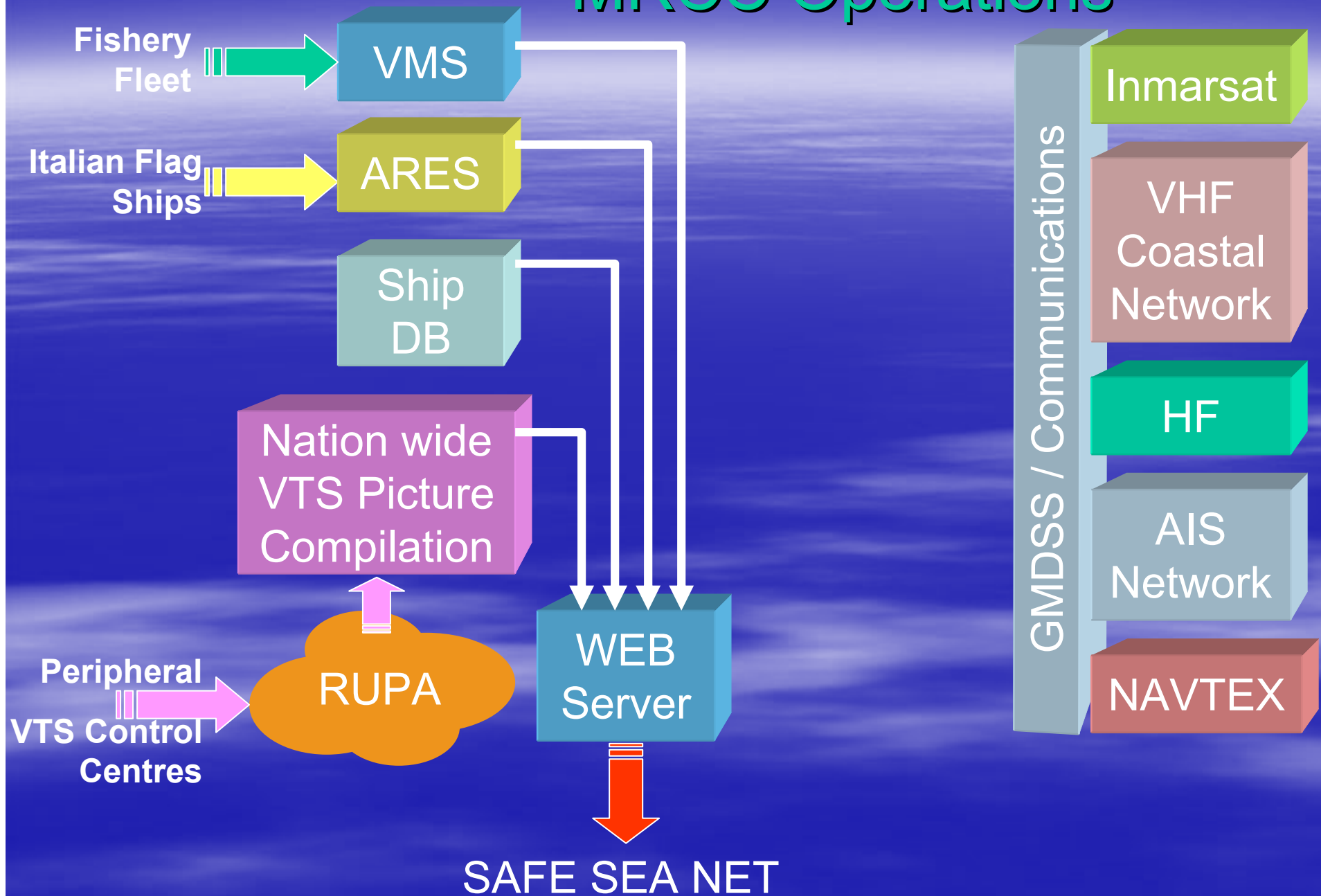


VTSC Centres of all levels are mapped on the existing SAR organization unit:

- VTSC with MRCC Rome,
- every VTSA with respective MRSC,
- every VTSL with respective Post Alerting Unit.



# MRCC Operations





# AIS network

- The system provide complete coverage
- Compliant with international std/best practise
- 39 redundant ground base stations installed in existing VHF radio installations
- The system is centralized to be interfaced with other AIS infrastructure.

IMRCC / VTSC

ROME

Ship position – (VTS, ARES,  
VMS, AIS)

Ship sailing plan

Hazmat messages

Port notification

Port state control

Security notifications

Accident reports

Waste notification



# Ready for Safe Sea Net

- Within the integrated system for maritime traffic monitoring and emergency assistance (MRCC), the central VTS is the strategic level for the whole system supervision.
- The Central VTS is also the coordination node for the existing navigation services: ARES, HAZMAT, NAVTEX, MAREM, Message dispatch, METEO, CAIMAN, Cartographic service.
- Through the VTS all the previously existing MRCC Data Bases are integrated.



# Connectivity to other systems



The Italian VTS is designed to interconnect, at the level of National operating centre, with VTSs of any other countries, further to prior definition of common procedures for data exchange.

THANK YOU FOR YOUR  
ATTENTION. ANY QUESTION?

