



INTEGRATION OF SEA LAND TECHNOLOGIES FOR AN EFFICIENT DOOR TO DOOR INTERMODAL TRANSPORT

**A CONTRIBUTION OF TECHNOLOGY FOR THE ENHANCEMENT OF SHORT SEA SHIPPING
AND THE EXECUTION OF THE MOTORWAYS OF THE SEA IN EUROPE**



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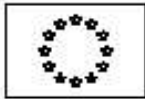
www.integration.cetena.it



BRUSSELS, APRIL 5th 2005



THE COMMUNICATION OF THE EUROPEAN COMMISSION ON SHORT SEA SHIPPING



COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 2. 7. 2004

Brussels, 2.7.2004
COM(2004) 453 final

COMMUNICATION FROM THE COMMISSION TO THE COUNCIL,
THE EUROPEAN PARLIAMENT, THE EUROPEAN ECONOMIC AND
SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS

on Short Sea Shipping

{SEC(2004) 875}

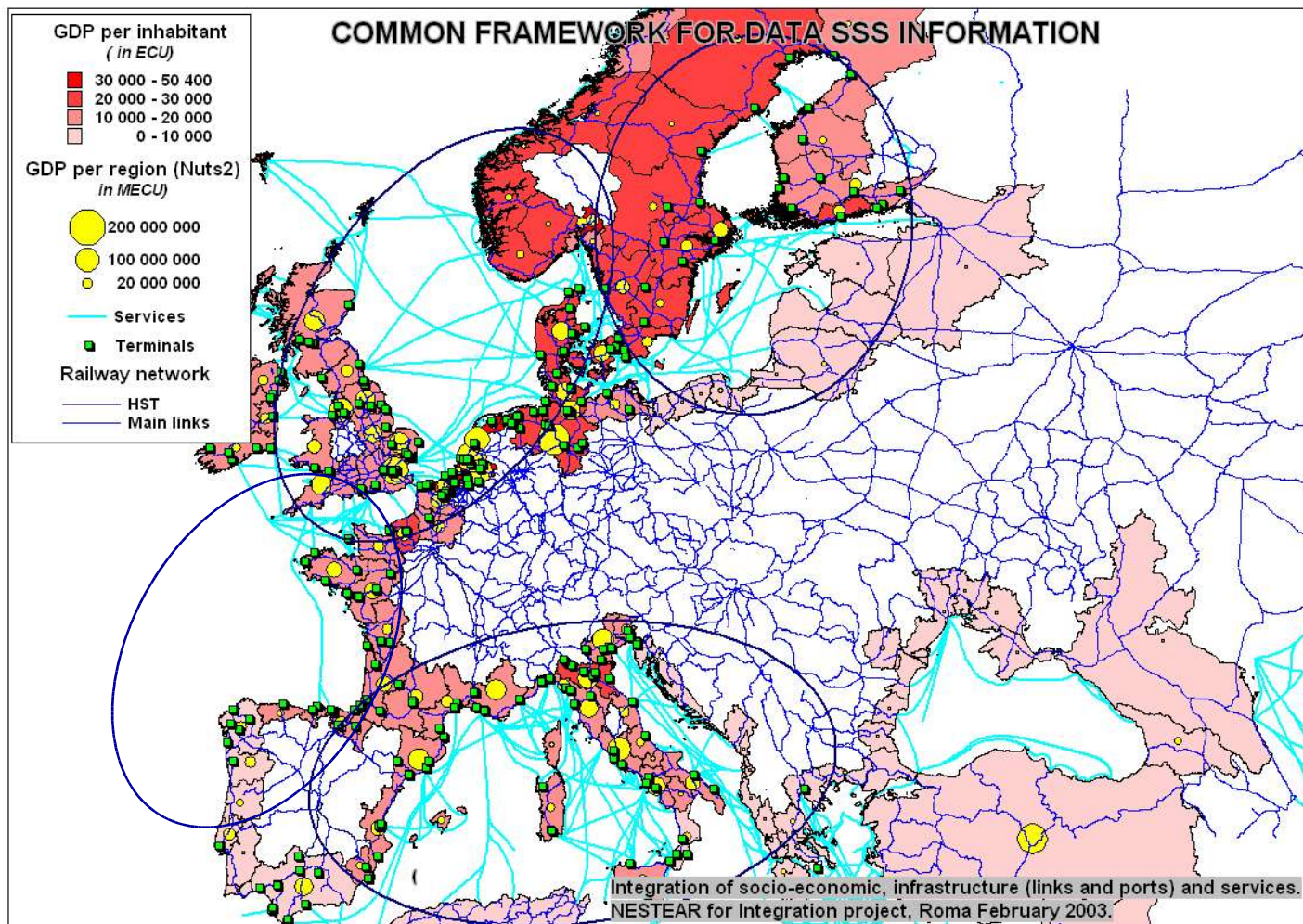


“Towards increased competitiveness of the waterborne transport, the Commission funded FP5 research project INTEGRATION delivers concrete results for automated loading - unloading technologies towards increased short-sea freight transport and terminal/ports operations volumes. Gathering expertise from all around Europe, major stakeholders such as handling systems and equipment suppliers, shipyards, terminal operators and port authorities as well as shipping companies are in the stage of validation of the innovative solutions in the selected demonstration sites.”

INTEGRATION

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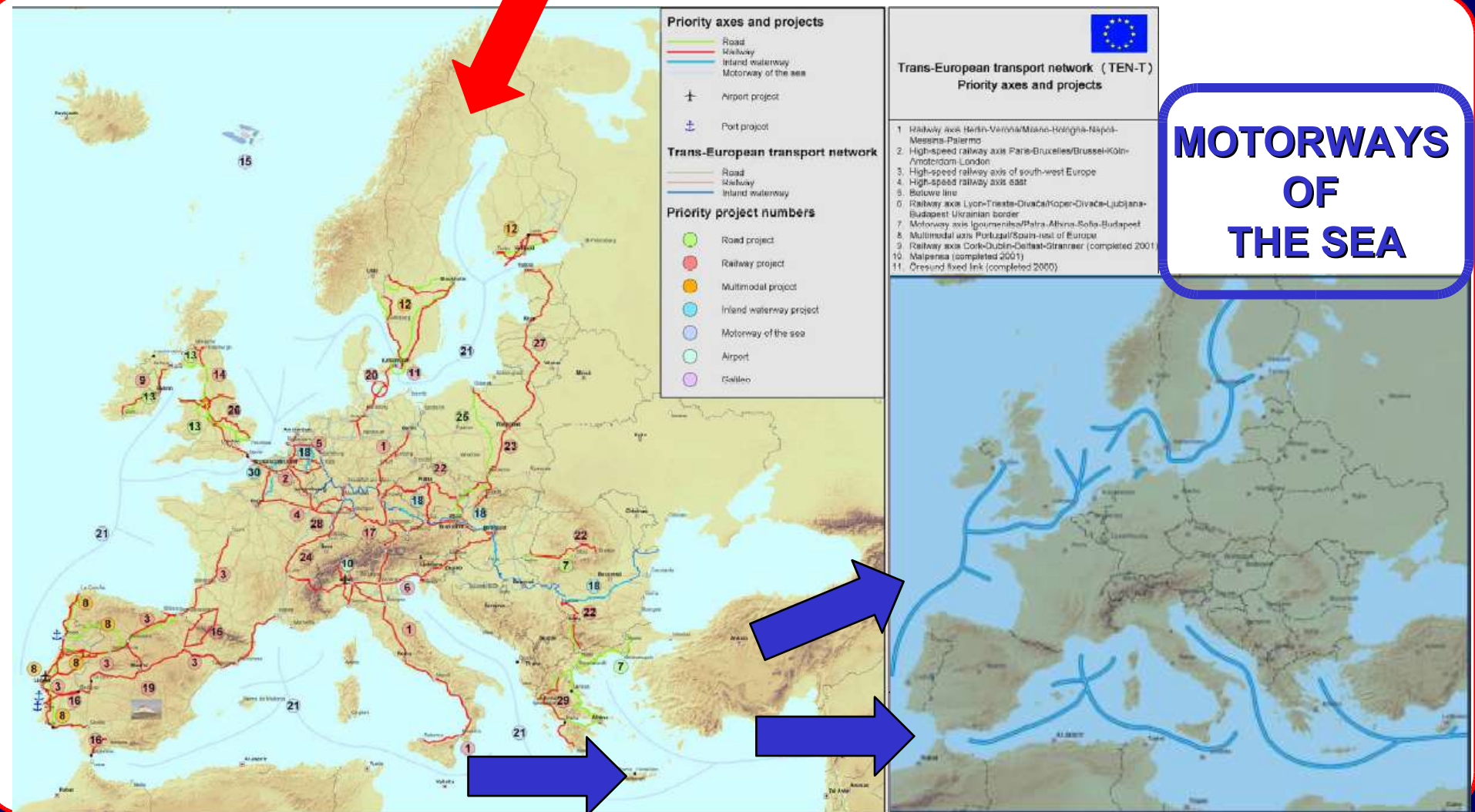
DOOR TO DOOR FREIGHT TRANSPORT SCENARIOS



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PRIORITY AXES AND PROJECTS TRANS-EUROPEAN TRANSPORT NETWORK



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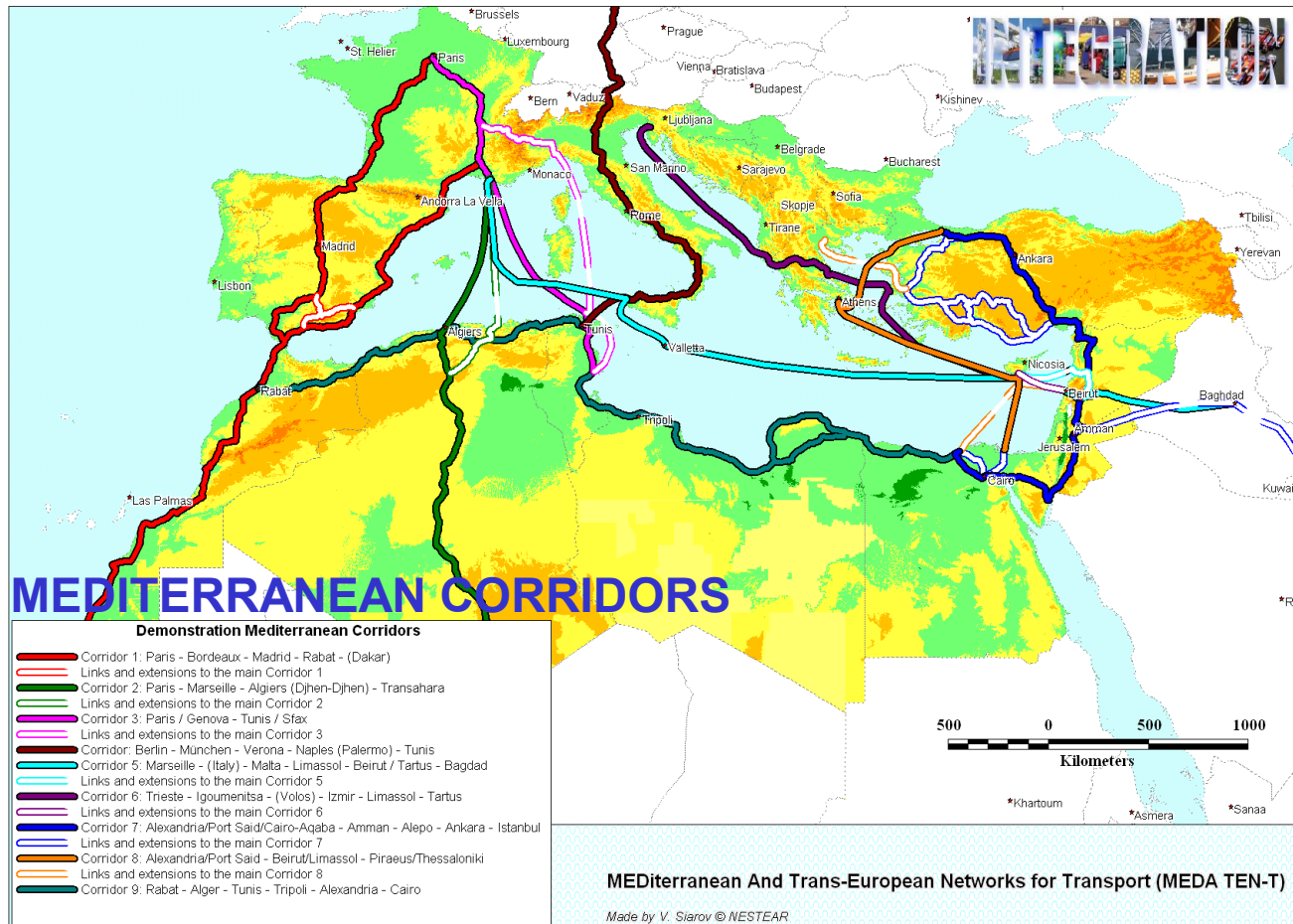
MEDITERRANEAN CASE



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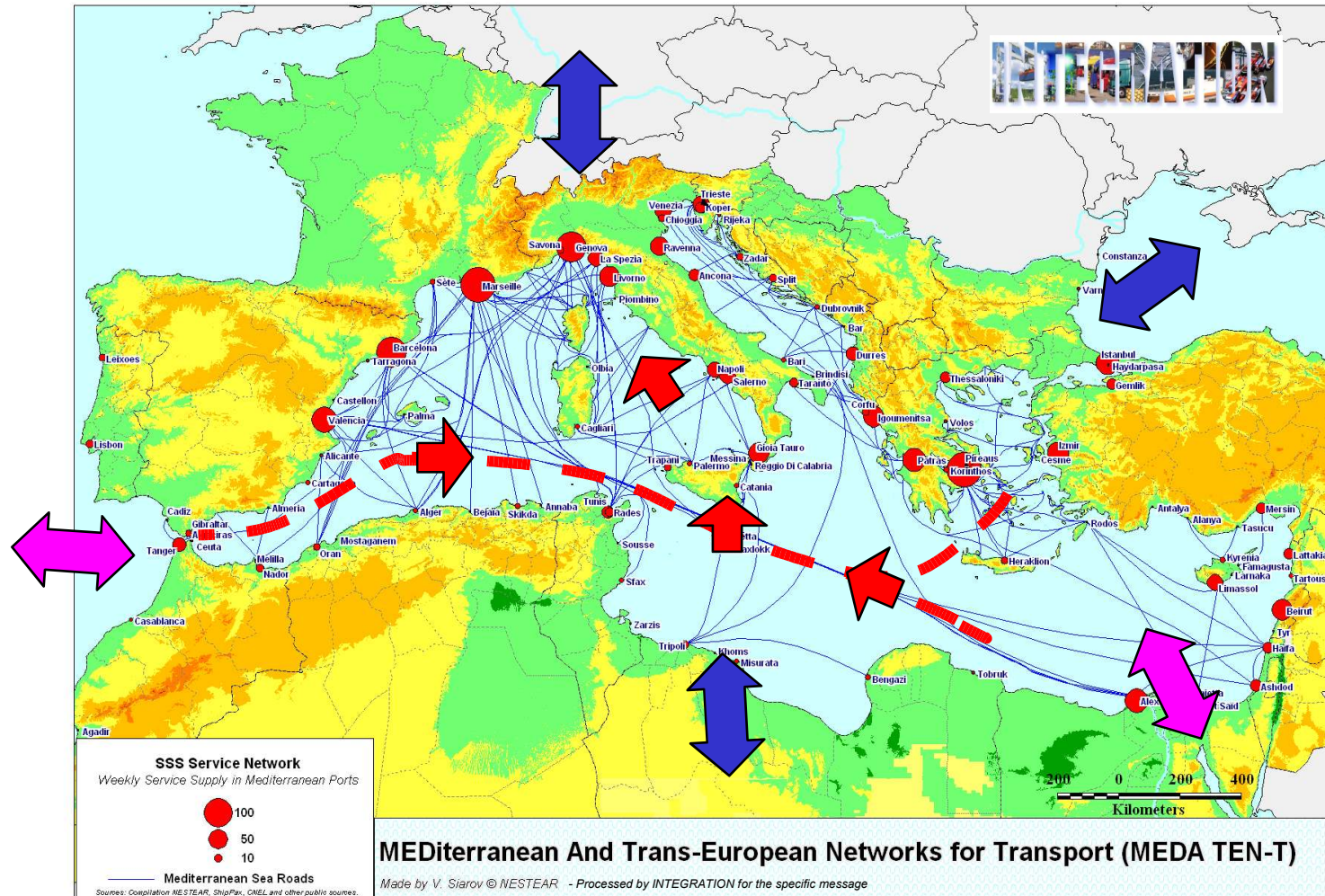
MEDITERRANEAN AND TRANSEUROPEAN NETWORK FOR TRANSPORT MEDA TEN T



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RORO MOTORWAYS OF THE SEA



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RORO MOTORWAYS OF THE SEA THE CARGO



**INTERMODAL
FREIGHT UNITS
(SWAP BODY)
7,5 m**



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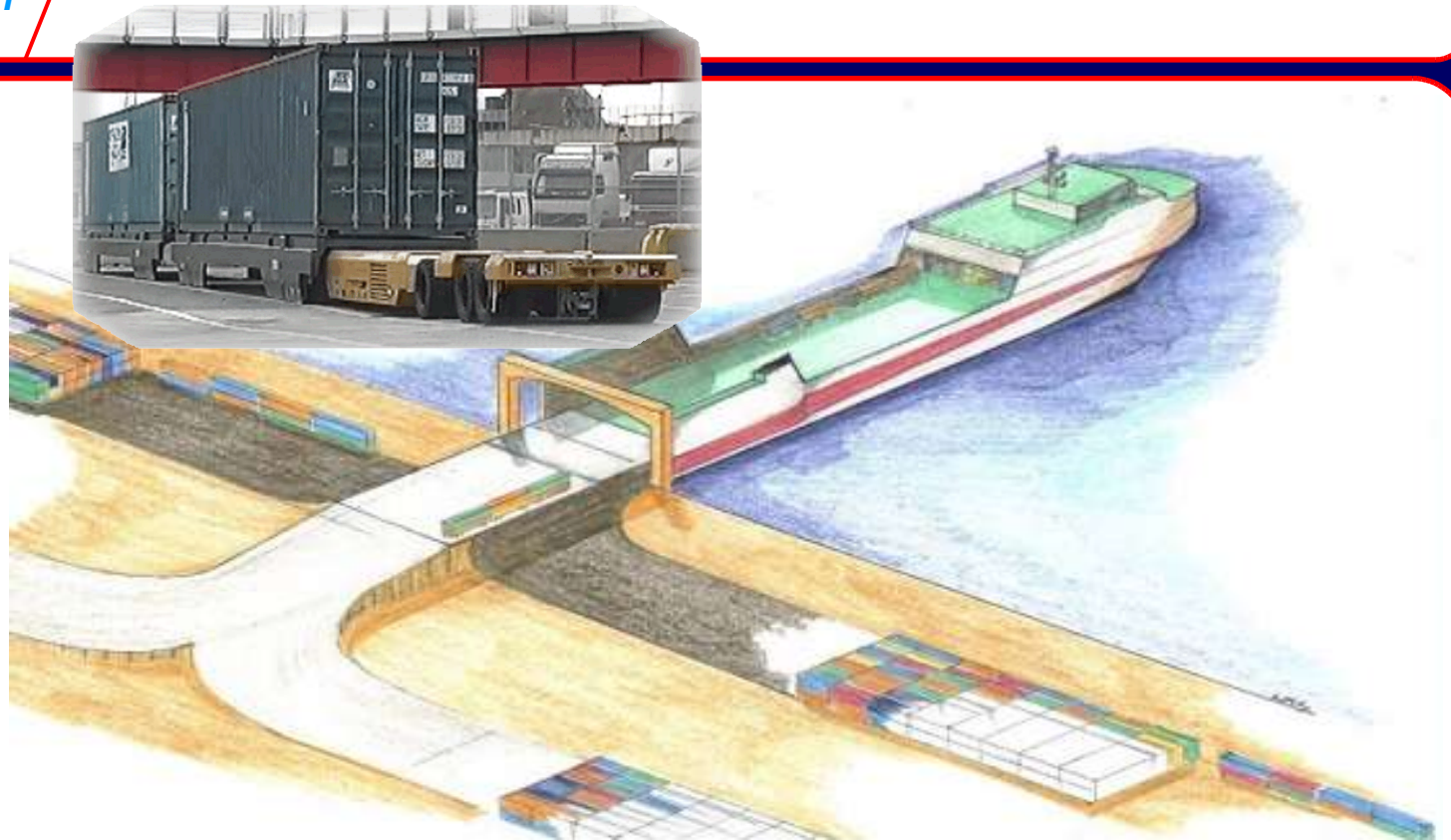
INTEGRATED RORO SYSTEM SHIPS & TERMINALS



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ENABLING TECHNOLOGIES



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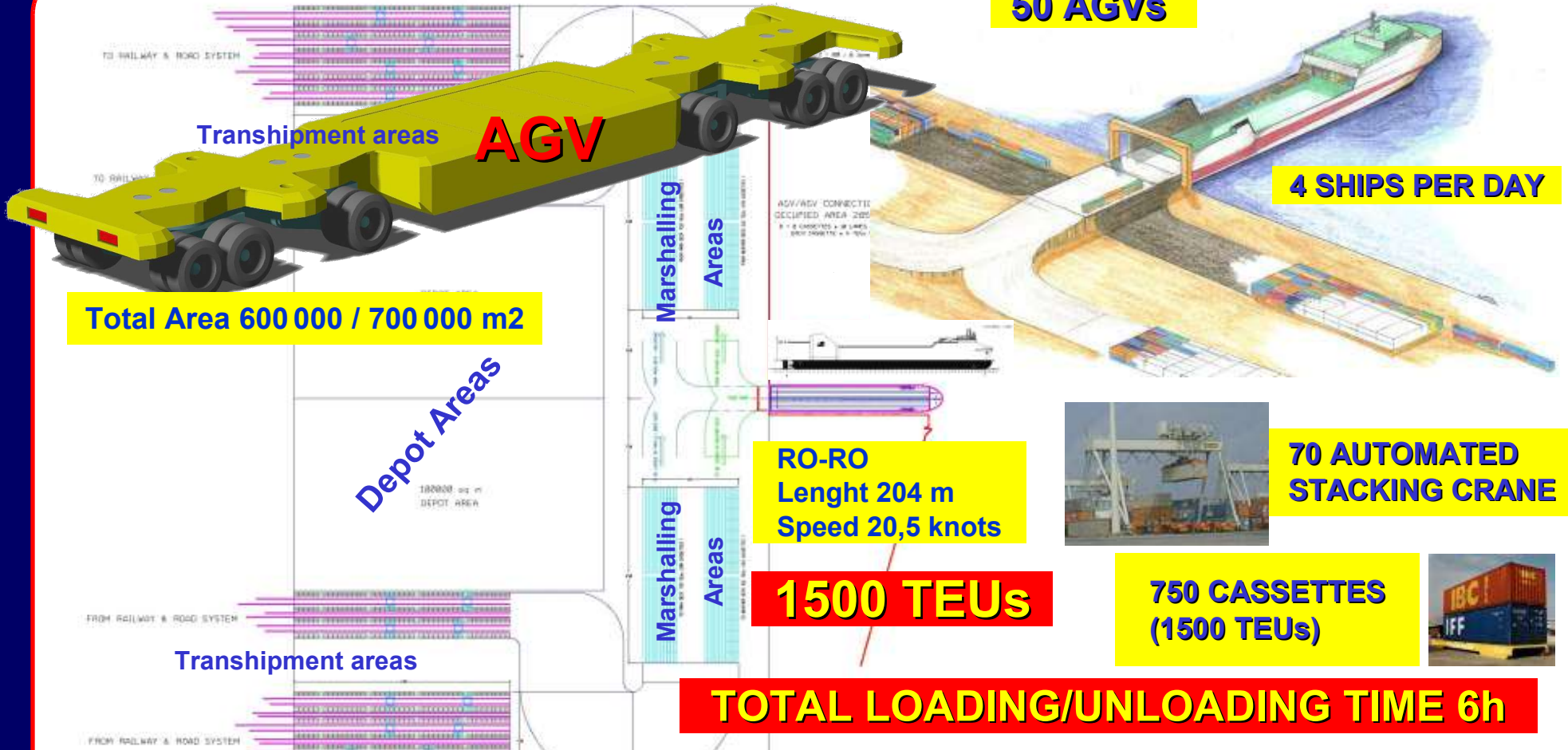
**THE NEW 350 - 1500 TEUs
RORO / FEEDER SHIP SERIES**



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RO-RO INTEGRATED SHIP - SHORE SYSTEMS AUTOMATED TERMINAL



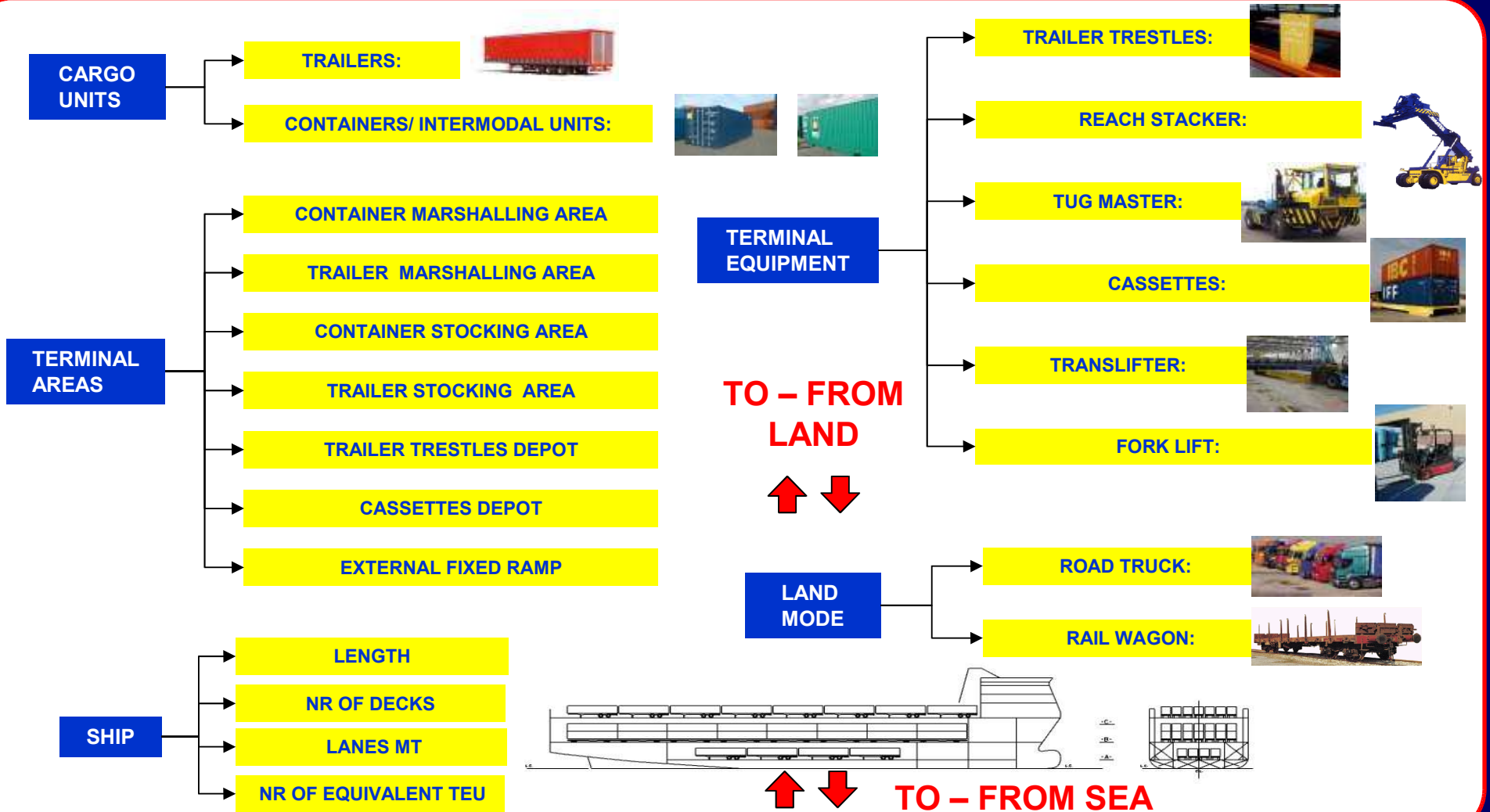
More than **2 Millions** TEUs / Year

UP TO 30/35000 TEUs / Ha / Year

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RORO INTEGRATED SHIP – SHORE SYSTEMS TODAY TERMINAL AT HIGH CAPACITY LOW INVESTMENT COST

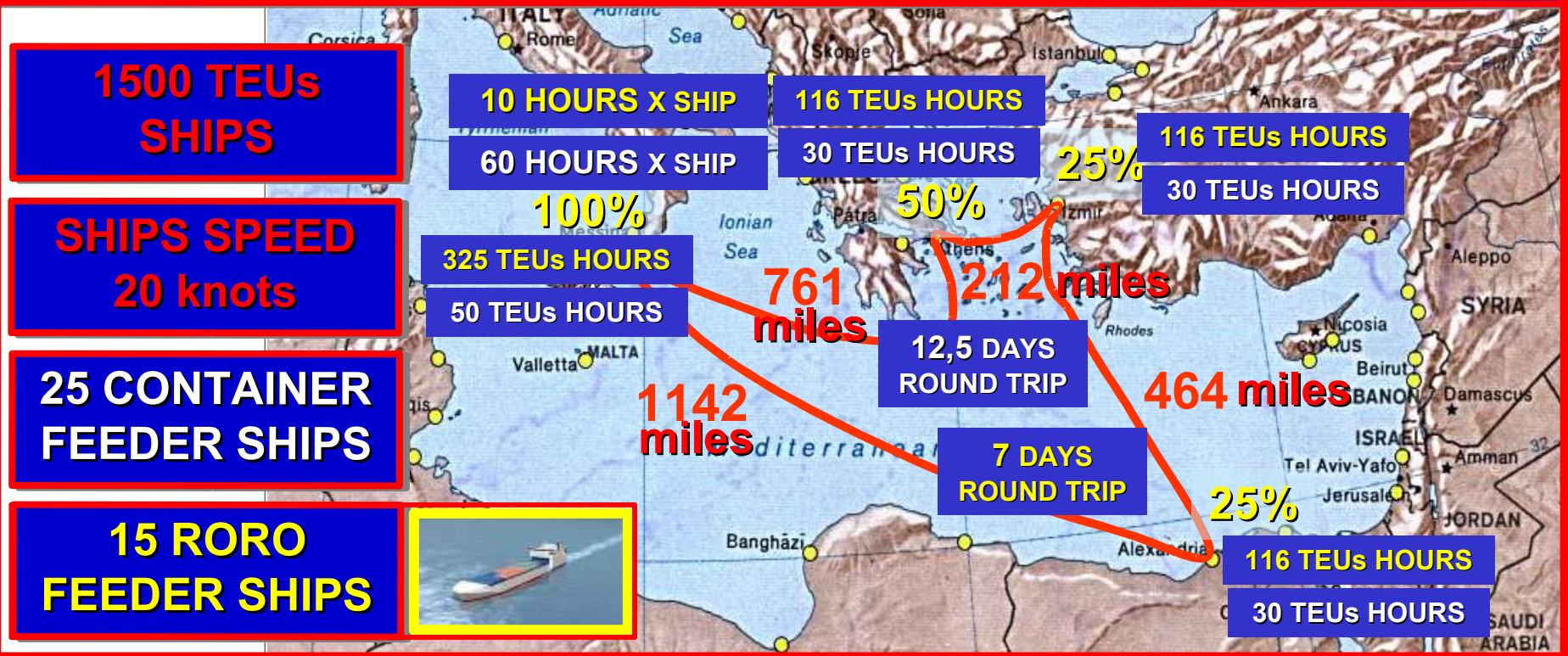


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CONTAINER FEEDER SERVICE 2 MILLION TEUs PER YEAR

EFFICIENCY OF RORO VS LO-LO CURRENT FEEDERING SYSTEMS THEORETICAL EXERCISE



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MOTORWAYS OF THE SEA ARE TRANSPORT INFRASTRUCTURES AS RAILWAYS AND ROADS

THESE INFRASTRUCTURES ARE COMPOSED BY:

- **SHIPS**
- **TERMINAL FACILITIES**
- **CARGO HANDLING FACILITIES**



TO START

**USING THE MOTORWAY OF THE SEA
FOR HIGH VOLUMES AND EFFICIENT
FREIGHT TRANSPORT SERVICES
NOT MORE THAN TWO YEARS ARE REQUIRED**

**THE RELEVANT INVESTMENTS ARE VERY LIMITED
IF COMPARED TO THOSE OF RAILWAYS AND ROADS**

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IMPLEMENTATION OF THE MOTORWAYS OF THE SEA USING "INTEGRATION RORO SYSTEMS"

AN INDICATIVE FIGURE

