



China-Europe Forum on eLogistics – A Conference by eLOGMAR-M

# New Challenges for Collaborative Work in e- LOGISTICS

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- 1 Introduction
- 2 Transport 2020
- 3 eLOGMAR-M Project Overview
- 4 Networking



Virtual  
Development and  
Training (VDT)

Automation (AUT)

Logistics Systems  
and Networks (LSN)

Production and  
Plant Management  
(PAM)



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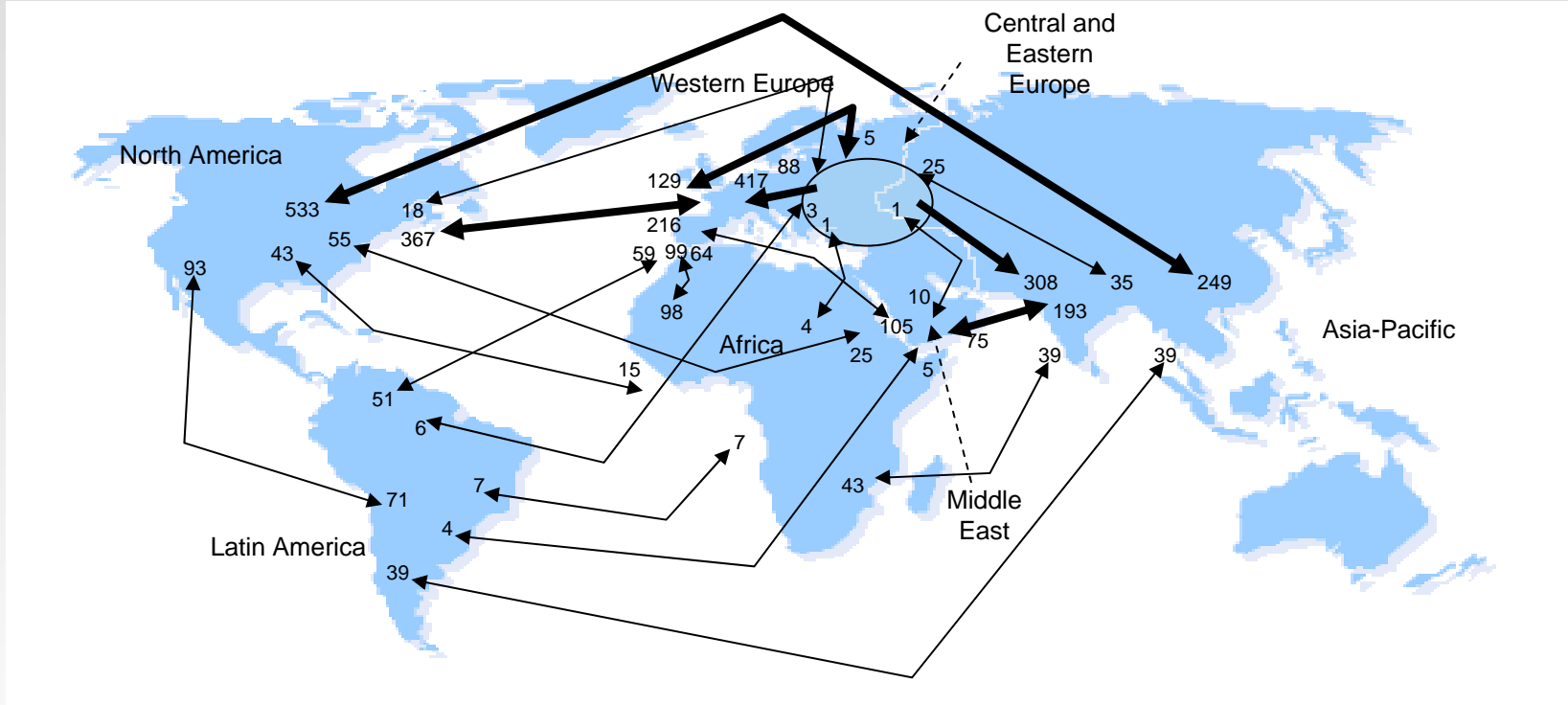
Number of Employees: 120

Office and Lab Space: 5000 m<sup>2</sup>

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- 1 Introduction
- 2 Transport 2020
- 3 eLOGMAR-M Project Overview
- 4 Networking



Trade flows between world regions in 2004 in billion \$

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Source	Destination	1997 MTEU	2003 MTEU	Change
Europe	USA	1.5	2.2	+ 47%
USA	Europe	1.5	1.6	+ 7%
Far East	Europe	2.9	5.2	+79%
Europe	Far East	2.4	3.2	+ 33%
Far East	USA	4.8	9.4	+96%
USA	Far East	3.5	4.3	+23%

Source: Drewry Shipping Consultants, in: Container Market Quarterly, Dec 2003

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- ☰ The volume of worldwide container traffic has sextupled in the last 20 years
- ☰ Shipping companies' one port concepts involve:
  - Growth of short sea shipping
  - Upgrading of the hinterland infrastructure
- ☰ Inland shipping is profiting from the growing container traffic
- ☰ Container ships will have grown to volumes of up to 12,000 TEU\* by 2025 (and thus grow by +50 %)

\* TEU: Twenty Feet Equivalent Unit, 20 foot long standard container

Source: »Zukunft der Mobilität« - Szenarien für das Jahr 2025 ifmo, Berlin

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# VISION 2020

Safe,  
sustainable  
& efficient  
waterborne  
transport

A  
competitive  
European  
waterborne  
industry

Managing  
& facilitating  
growth in  
transport  
volumes  
& changes in  
trade patterns

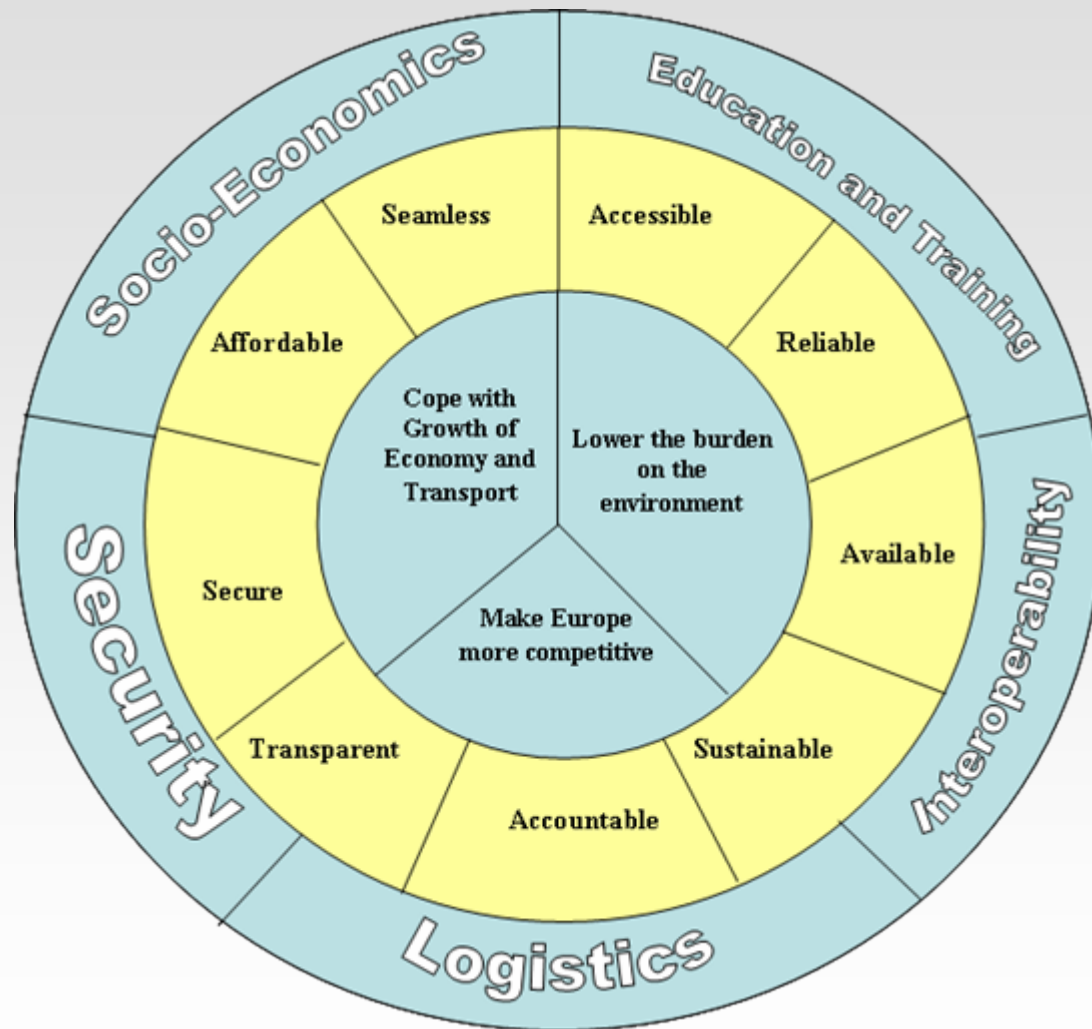
**WATERBORNE<sup>TP</sup>**

Source: [www.waterborne-tp.org](http://www.waterborne-tp.org)

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European  
Intermodal  
Research Advisory  
Council (EIRAC):  
Need of integrated  
collaborative work  
platforms



Source: [www.eirac.net](http://www.eirac.net)

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- 1 Introduction
- 2 Transport 2020
- 3 eLOGMAR-M Project Overview
- 4 Networking



## eLOGMAR-M

### Web-based and Mobile Solutions for Collaborative Work Environment with Logistics and Maritime Applications

The eLOGMAR-M CA is the instrument to co-ordinate organisations, programmes and projects in the area of innovative Web-based and mobile solutions with logistics and maritime applications.

The project is initiated by the major partner group under the co-ordination of the Fraunhofer IFF with the aim:

- ☐ to create an international network of scientists and experts,
- ☐ to improve transport logistics and harbour processes by using mobile IT-solutions

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The 17 partner organisations complement each other at different levels:

- ☰ Industrial Enterprises, Universities and Research Institutes, Transport Logistics, It-Solutions Companies:
  - Fraunhofer IFF(Germany); Warsaw University of Technology (Poland), Riga Technical University (Latvia);
  - KSSA(Lithuania), PKA(Finland), RTSB(Germany), HHM(Germany), ThPA (Greece), IB (Estonia)
  - IDC Information Technologies, Latvian Intelligent Systems (LV); Sonex (LT); HOPE (China)
  - M&SS (UK), TRD (GR), CHD (CN), LTR (EE)
  
- ☰ Different geographical regions along the selected freight route:
  - China
  - Mediterranean (Greece)
  - Western Europe (Germany, U.K)
  - Baltic Sea (Finland, Poland, Lithuania, Latvia, Estonia)

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To provide services and new work methods for the  
mobile actors in maritime transport

(traders, shippers, brokers, consignees, forwarders, railways, etc.)

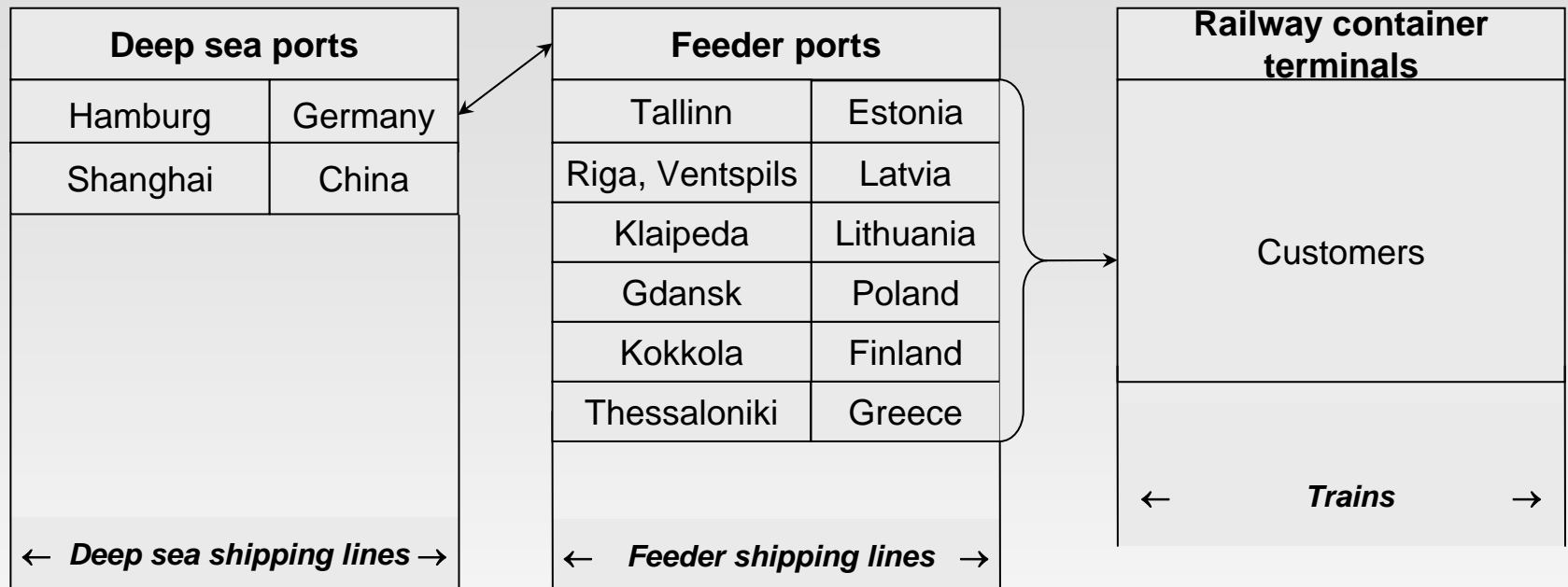
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- ☰ Create a dynamic, collaborative partner pool uniting organisations from one Asian and eight different European countries.
- ☰ Incorporate the different partners operating along the selected maritime freight route by the way of uniting their information management systems, databases, Internet Web-sites and portals.
- ☰ Provide services and new work methods for the mobile actors (traders, shippers, brokers, consignees, forwarders, railways, etc.).



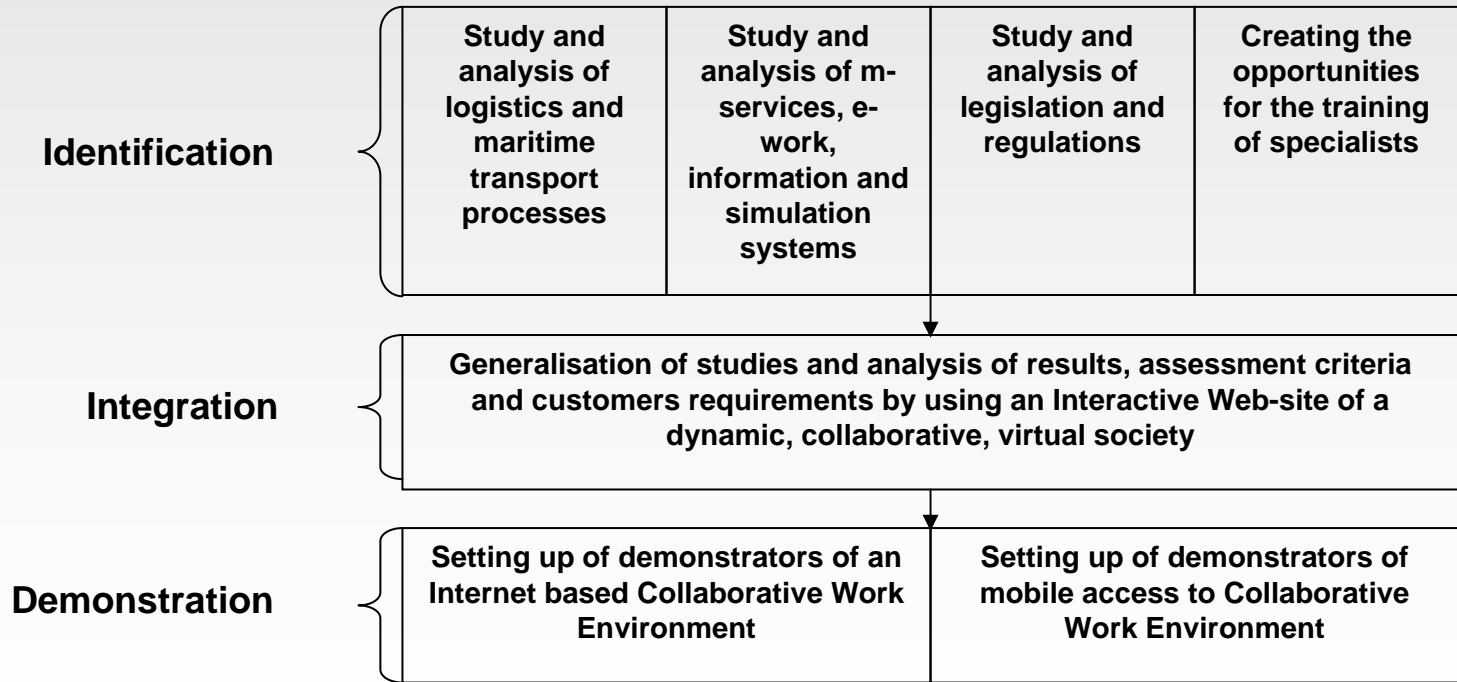
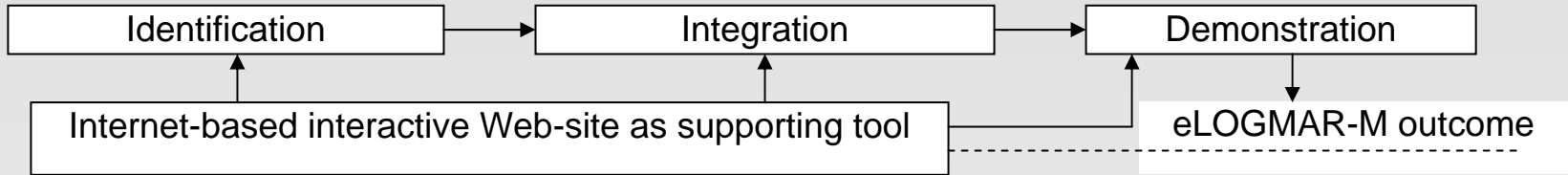
- ☐ Creating an Internet based Collaborative Work Environment and mobile access to it using GPRS
- ☐ Demonstration of the Internet based Work Environment:
  - samples of information resources along the maritime freight route »Europe – China« within a dynamic virtual work environment
- ☐ Internet-based interactive Web-site as a tool for supporting the dynamic collaboration of partners along the maritime freight route.
- ☐ Seven technical WSs and two international conferences aimed at integrating organisations from candidate-countries into the European IST and maritime Communities and collaborating with huge Chinese IST and logistics market.
- ☐ Exploitation by Baltic Regional Competence Centre in Riga (Latvia).



- ☰ First level – containers delivery from one deep sea port (hub) to another by deep sea shipping lines
- ☰ Second level – containers delivery from hub port to smaller feeder ports by feeder shipping lines
- ☰ Third level - containers delivery from feeder ports to customers by trains



The CA consists of three stages



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☰ Objective 1:

Study and analysis in terms of:

- logistics and maritime transport processes
- m-services, e-work
- legislation and regulations as basis to create a virtual networked pool

☰ Objective 2:

Training of specialists in maritime logistics and quality management systems

☰ Objective 3:

An Internet-based Interactive Web-site as a gateway for a potential network

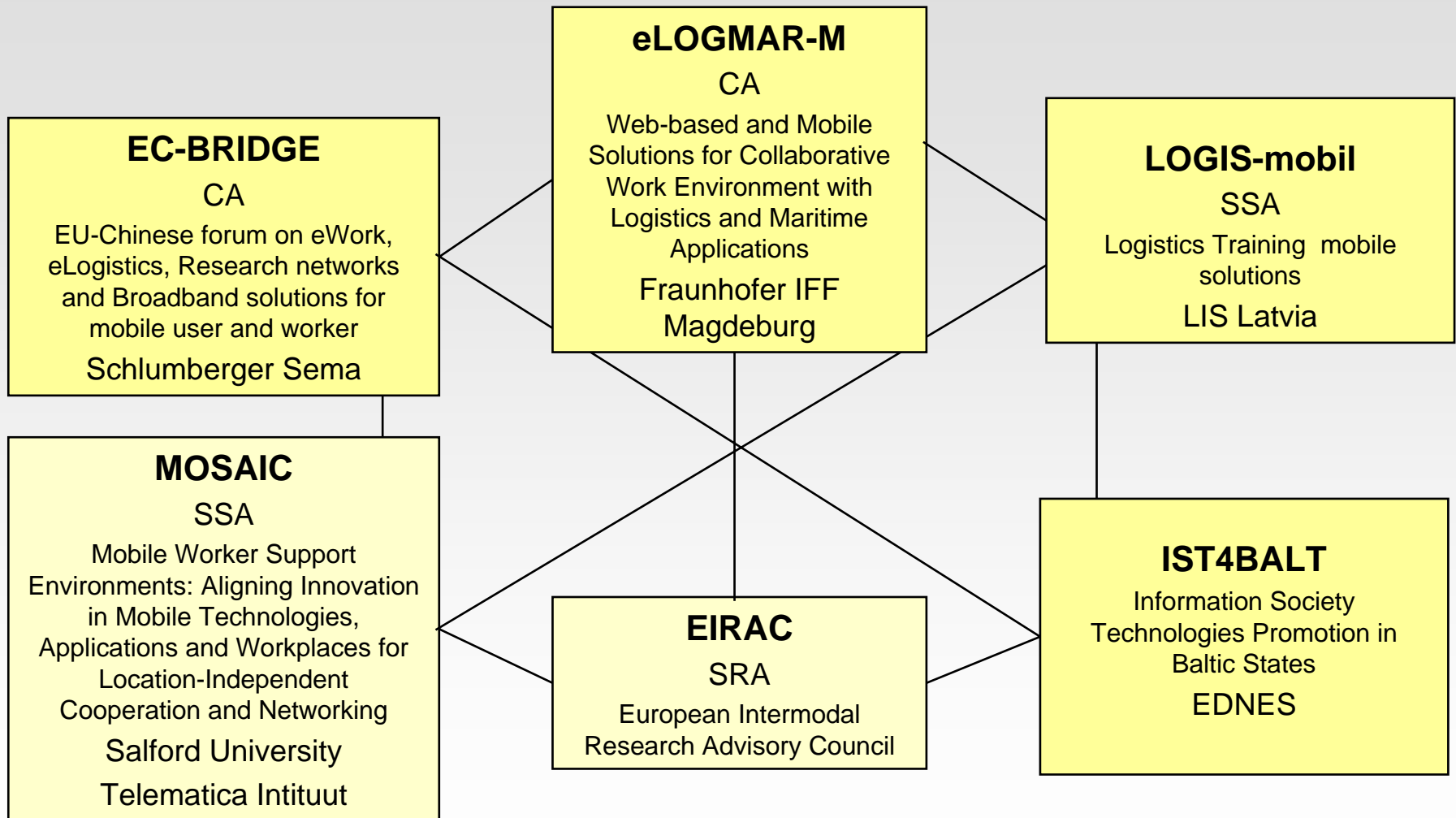
☰ Objective 4:

A Demonstrator of an Internet based collaborative work environment with mobile access

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-



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# Thank you for your Attention !

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