


ACCESSIBILITY & TRANSPORTS

Project nr 2008-1/049

duratiNet


Durable Transport Infrastructures in the Atlantic Area Network

Manuela Salta
Project Leader




European Union
European Regional Development Fund


Investing in our common future



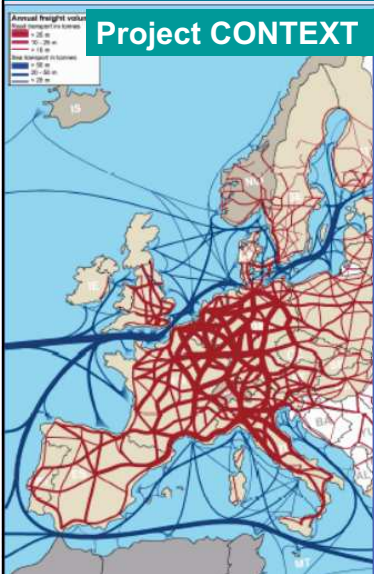
ATLANTIC AREA
Transnational Programme



1ST Transnational Workshop
Lisboa- LNEC, 19th February 2009



Project CONTEXT




EU strategic and priority action guidelines

- European Cohesion policy and Lisbon agenda
- European transport policy (EU Decision 884/2004/CE, 29 April 2004)

Trans-European Transport Networks (TEN-T)
Interoperability of European transport Networks

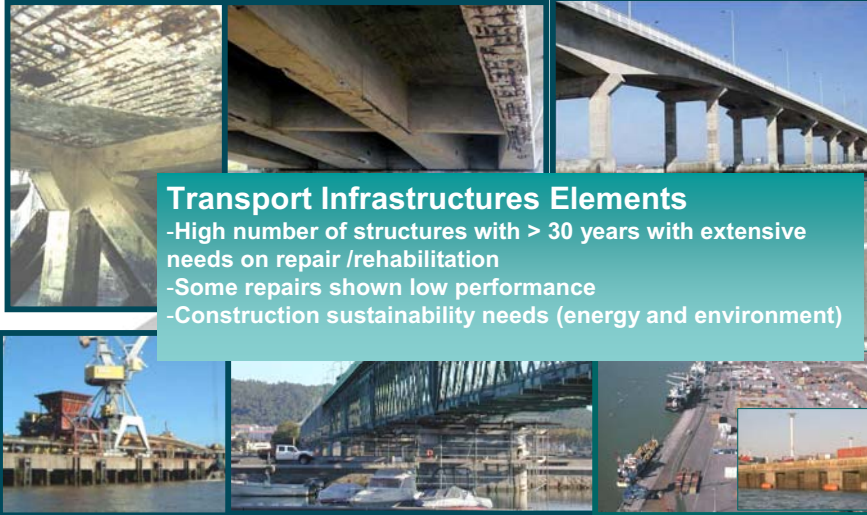
- Gothenburg (Kyoto protocol) agenda
- Environmental policy (6th EAP-EU 2002-2012)

- Strategic position of Atlantic Area to east-west connections and relevance
- Relevance of AA on maritime highways
- Intermodal transportation
- Reduction of environmental impact and to improve the energetic efficiency
- Infrastructures repair /rehabilitation needs



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Project CONTEXT



Transport Infrastructures Elements

- High number of structures with > 30 years with extensive needs on repair /rehabilitation
- Some repairs shown low performance
- Construction sustainability needs (energy and environment)

DURATINET PROJECT

The main goal of the project is to create the network of excellence DURATINET

- > to facilitate an efficient exchange and transfer of knowledge and
- > to promote the durability, safety and sustainability of transport infrastructures in the **Atlantic Area**,

turning these regions more attractive to live in, to work and for competitive business

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Priority 3: Inclusive Accessibility and Intermodal Links
ACCESSIBILITY & TRANSPORTS

START

This project addresses both the accessibility issue and the intensification of inter-regional relationships in relation to the transport of passengers, and the consortium is willing to take on the role as THE strategic project for Accessibility.
Lead Partner: Merseydele Passenger Transport Authority and Executive, UK
Partners: SP(1), FR(3), PT(4), UK(3)
Total Cost: 7.447.555,67 €
Allocated ERDF: 4.840.933,20 €

DURATINET

The main goal of the project is to create the network of excellence to facilitate an efficient exchange and transfer of knowledge, to promote the durability, safety and sustainability of transport infrastructures in the Atlantic Area, turning these regions more attractive to live in, to work and for competitive business.
Lead Partner: Laboratório Nacional de Engenharia Civil (LNEC), PT
Partners: SP(1), FR(5), IT(2), PT(4), UK(1)
Total Cost: 2.570.000 €
Allocated ERDF: 1.632.002 €

PROPOSSE

The overall objective of PROPOSSE is to promote short sea shipping as a real alternative to other means of transport of goods (like road) between SMEs from the interior and the ports of Aveiro, Gijón, Le Havre, Poole and Cork. This aim will be achieved by cooperation between ports and entities representing SMEs, and promoting regional development in regions outside the littoral.
Lead Partner: Autoridad Portuaria de Gijón, SP
Partners: SP(2), FR(1), IE(1), PT(2), UK(2)
Total Cost: 2.117.800 €
Allocated ERDF: 1.376.570 €

PRIORITY 3 - KEY FIGURES

Projects received: **3**
Projects approved: **3**

Distribution by Lead Partner



Distribution by Partner



Total ERDF

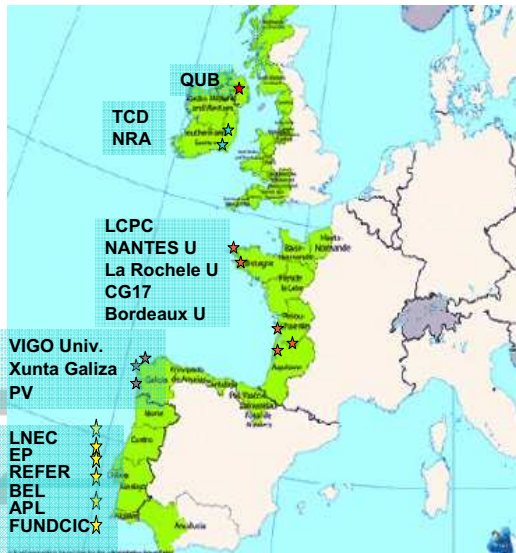
ERDF: 7.829.484,2 €
allocated to priority 3

Joint Technical Secretariat Team

[Director]
Jean-Luc Frés
[Financial and Operational Managers]
Isabel Moreira da Silva | Samuel Morais | Rebeca Ballo
[Communication Assistants]
Carla Guimarães | Tânia Alonso

Managing Authority

Paulo Gomes | Teresa Lameiras | Armando Carvalho



PARTNERSHIP

17 Partners

Portugal (6)
Spain (3)
France (5)
Ireland (2)
United Kingdom (1)

Atlantic Area Transnational Cooperation Program 2007-2013

PRIORITY 3. Improve the accessibility and internal links

OBJECTIVE 1. promote the interoperability between different transportation

Project data:

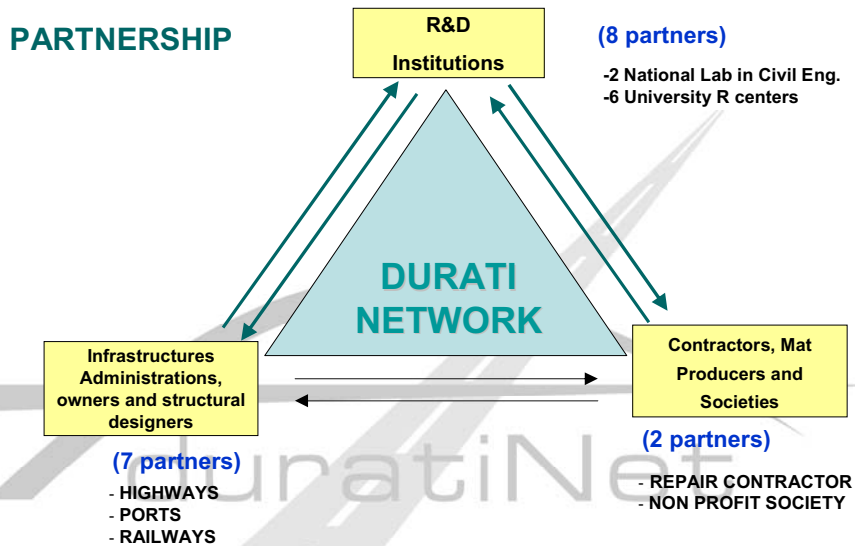
TOTAL PROJECT COST- 2. 570 M€
TOTAL ELLIGIBLE COST-2. 480 M€
ERDF FUND (65%) -1. 612 M€

5 Countries PT,SP,FR,IR,UK
17 Partners

ACCESSIBILITY & TRANSPORTS

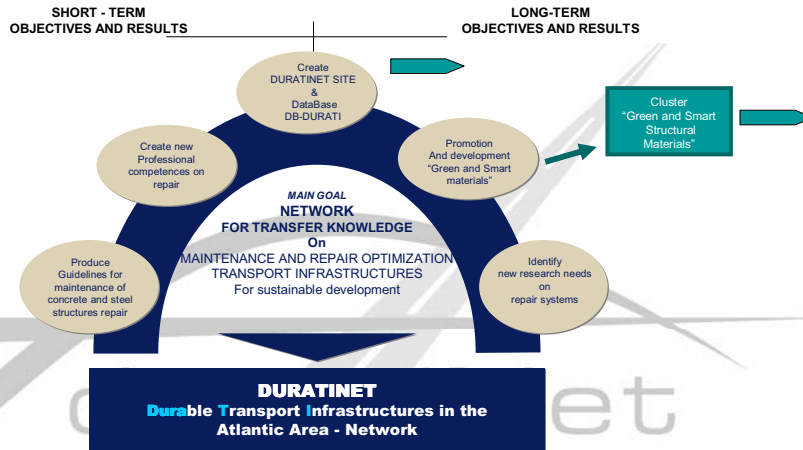
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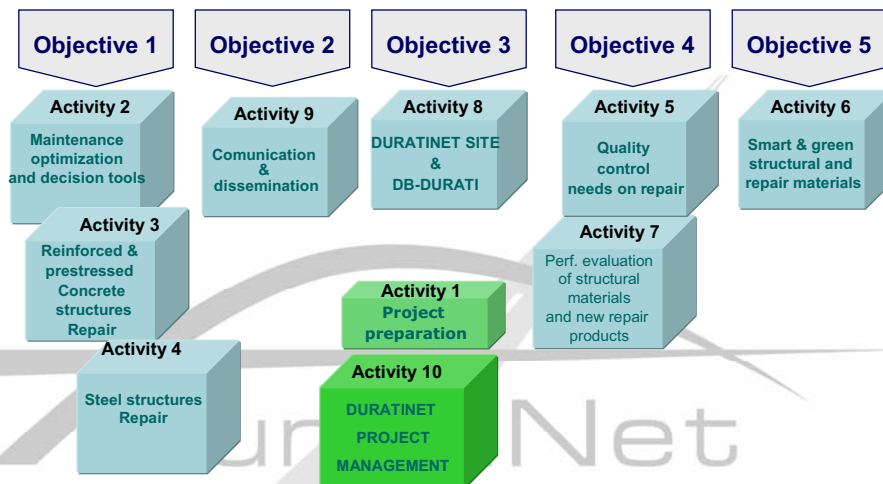


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Project Objectives



PROJECT ACTIVITIES





ACTIVITY 2

Chair: Alan O'Connor, TCD- IR



Maintenance optimization and decision tools

- Requirements for maintenance and repairs optimization
- Methodologies to support repair decisions



End-product

Activity 3

Chair: M. Basheer QUB-UK

Reinforced and prestressed concrete structures maintenance

- > Durability requirements
- > Types and degradation mechanisms
- > Inspection and diagnosis
- > Prevention and service life modelling
- > Repair techniques and performance/cost/environmental impact



End-product





ACTIVITY 4

Chair: Franck Schoeffs , GeM- FR

Steel structures maintenance

- Durability requirements
- Damage mechanisms of steel
- Inspection and diagnosis, NDT
- Protection/ repairing

End-product:

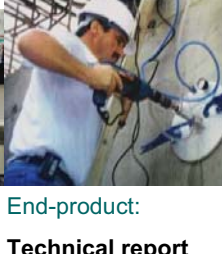
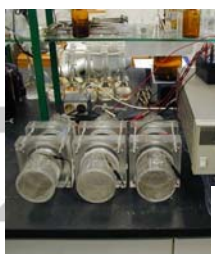
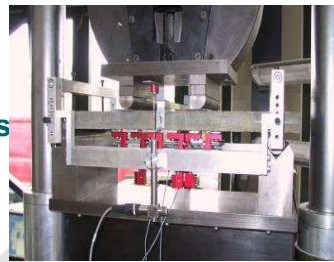


ACTIVITY 5

Chair: Sylvie Yotte, GhYMAC, FR

Quality control needs on repair systems

- Implications of harmonized standards on quality control at level of the contractors
- Implications of harmonized standards on quality control at level of materials producers



End-product:
Technical report

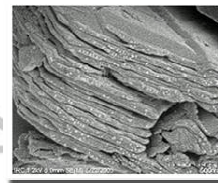
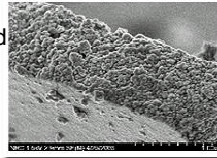


ACTIVITY 6

Chair: R. Novoa, U Vigo- SP

Smart & green structural and repair materials

- √ Concrete with by-products and recycled aggregates
- √ Water solvents based coatings for steel protection
- √ Cement with nano particles and nanofibers (Carbon nanotubes)
- √ Nanomaterials with specific performance properties, Easy to clean/Self cleaning coatings and nanoproducts for porous materials



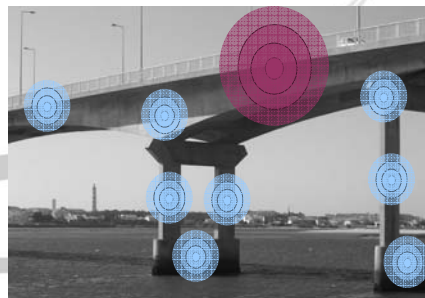
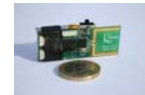
End-product:

State of the art reports



ACTIVITY 6

- √ On-line Monitoring wireless systems
- SMART STRUCTURES



Wireless sensor network
Wireless data transmission

End-product:

State of the art reports



ACTIVITY 7

Chair: Jean Michel Loche, LEPTIAB, FR

**Performance evaluation
of structural materials
and new repair products**

- Application de new products and systems
- Collecting materials data from natural exposure

**ACTIVITY 8**

Chair: L. Arriaga LNEC- PT

Creation of DURATI site with 3 domains

- > Domain for external access for dissemination of project activities and results
- > Domain (Web platform) for internal project work
- > Database DB-Durati with performance data of structural materials and materials repair

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ACTIVITY 9

Chair: A. S. Silva LNEC-PT

Project promotion, divulgation and dissemination actions

Organization of different type of events for
dissemination of project results and action

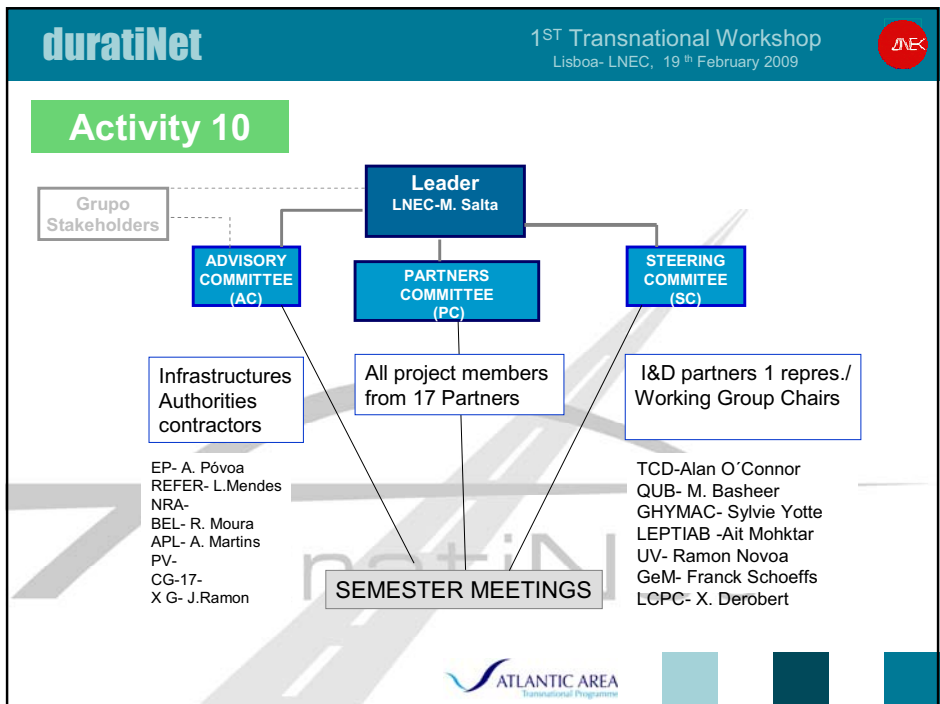
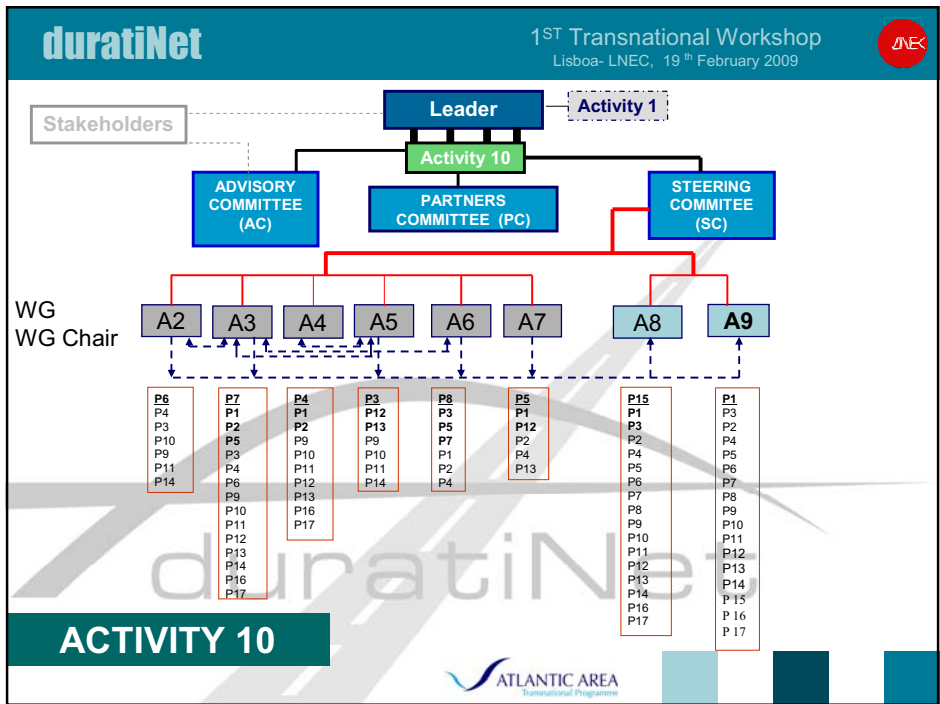
- > Transnational Workshops for end-users
- > International Congress DURATINET+ MEDACHS10
- > Course on inspection techniques and diagnosis
- > Demonstration actions on repairs

ACTIVITY 10

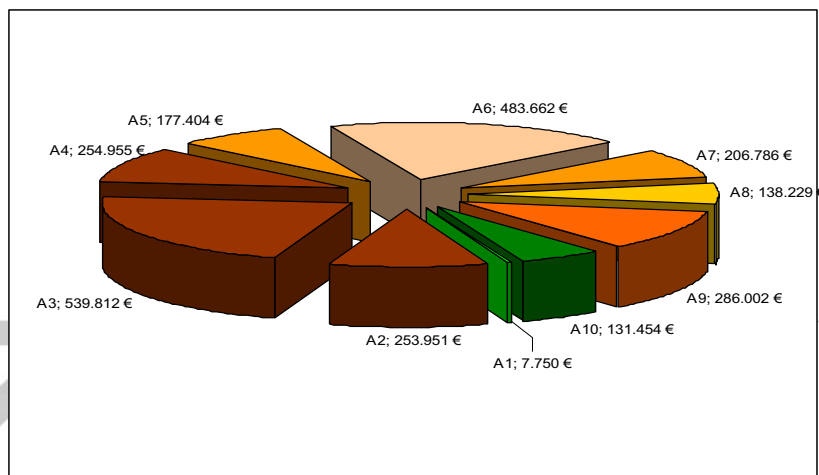
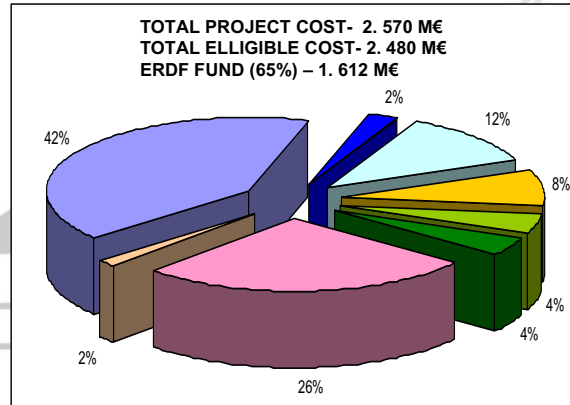
Chair: Manuela Salta, LNEC-PT

Project management Monitoring the proress of activities, project results and indicators

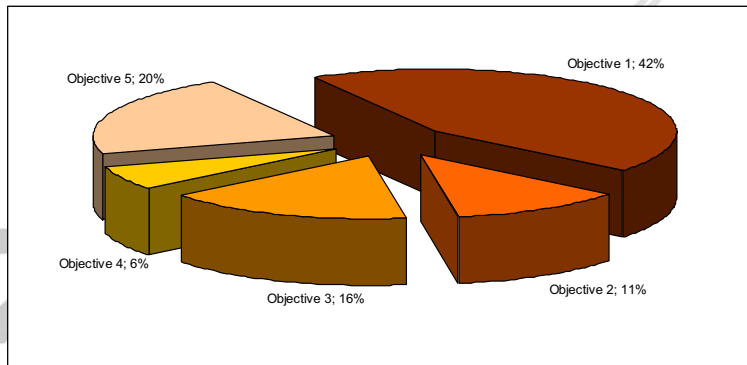
- coordenation of management commitees SC, AC and PC
- administrative and finncing project management



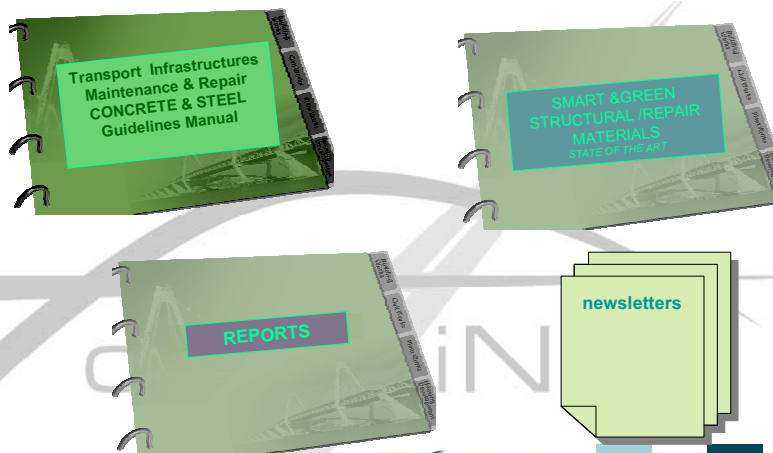
**TOTAL BUDGET
DISTRIBUTION BY ITEMS**



TOTAL BUDGET DISTRIBUTION BY OJECTIVES



PROJECT RESULTS ► DIFFERENT KIND OF PUBLICATIONS



PROJECT RESULTS

➤ SITE + DATABASE DB-DURATI

