

LNEC

ACCESSIBILITY & TRANSPORTS

Project nr 2008-1/049

duratiNet

Durable Transport Infrastructures in the Atlantic Area Network

An overview

Manuela Salta
Project Leader, LNEC

European Union
European Regional Development Fund
Investing in our common future

ATLANTIC AREA
Transnational Programme

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7th Trans-national Workshop
Lisboa- LNEC, 30th May 2012

DURABLE TRANSPORT INFRASTRUCTURE
IN THE ATLANTIC AREA
NETWORK
2009 / 2012

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Project Activity
Summary Report

(Preliminary edition)

www.duratinet.org

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Atlantic Area Transnational Cooperation Program 2007-2013

PRIORITY 3. Improve the acessibility 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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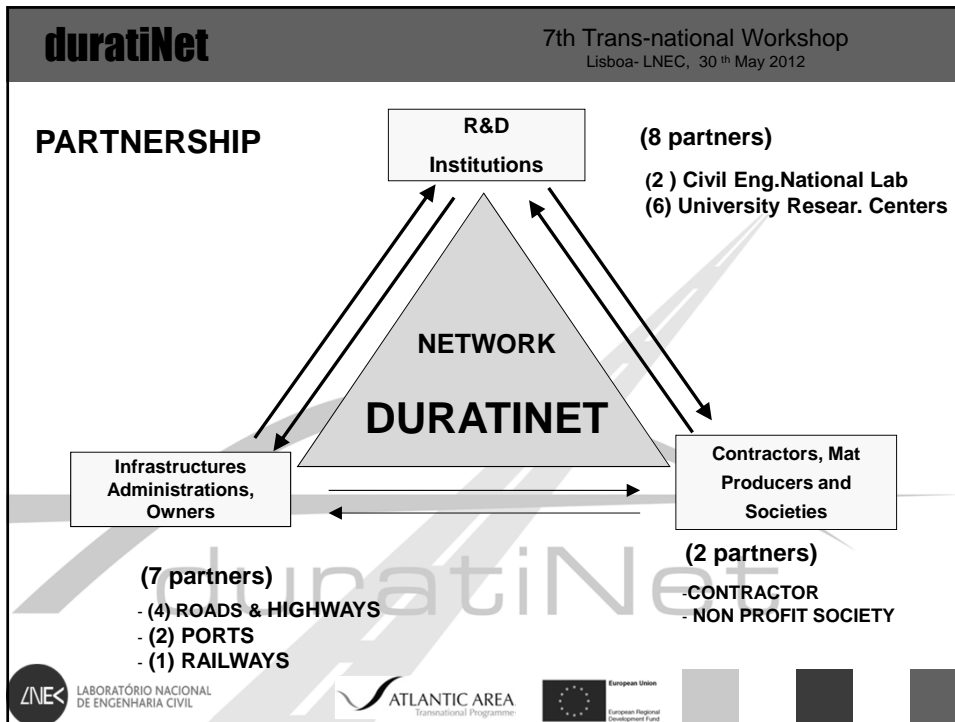
Project MAIN GOAL

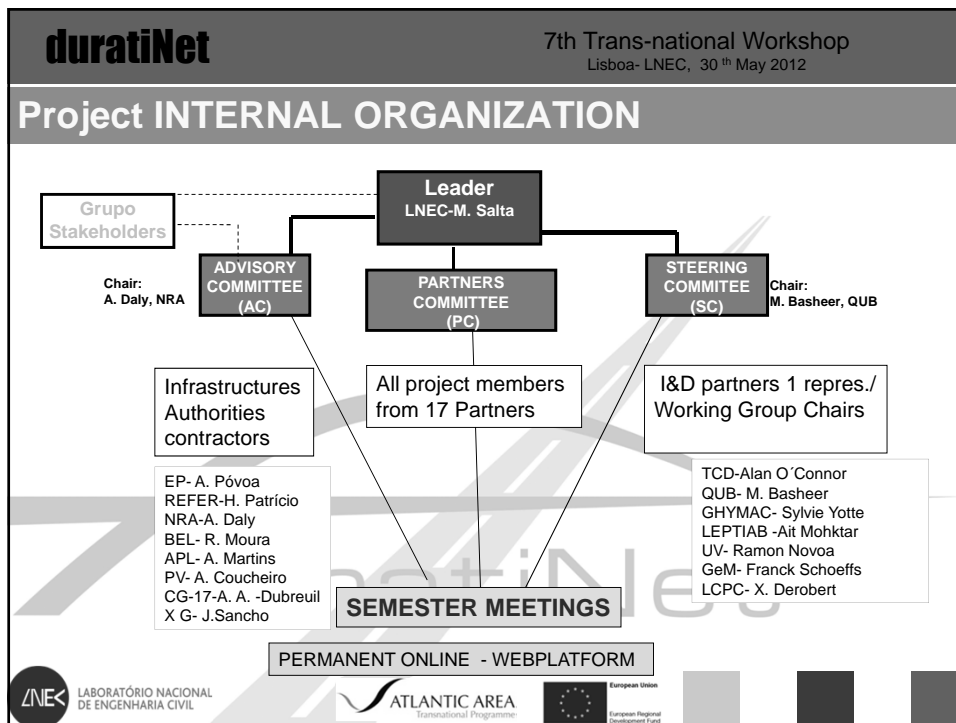
The main goal of the project is to create the network of excellence DURATINET

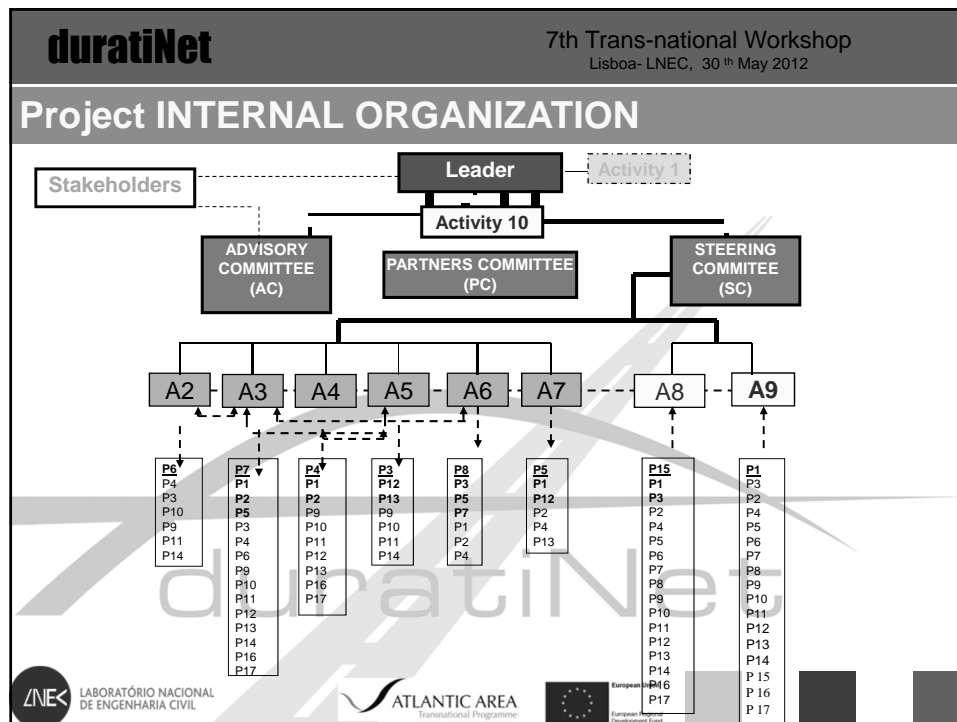
- > to facilitate an efficient exchange and transfer of knowledge and
- > to promote the durability, safety and sustainability of transport infrastructures in the **Atlantic Area**,

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

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Project CONTEXT

Transport Infrastructures :key factors

- High number of structures with > 30 years
- Large nr requiring repair /rehabilitation
- Repairs sometimes show low performance
- Construction sustainability requirements (environment impact & energy, social and economic)

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Project OBJECTIVES

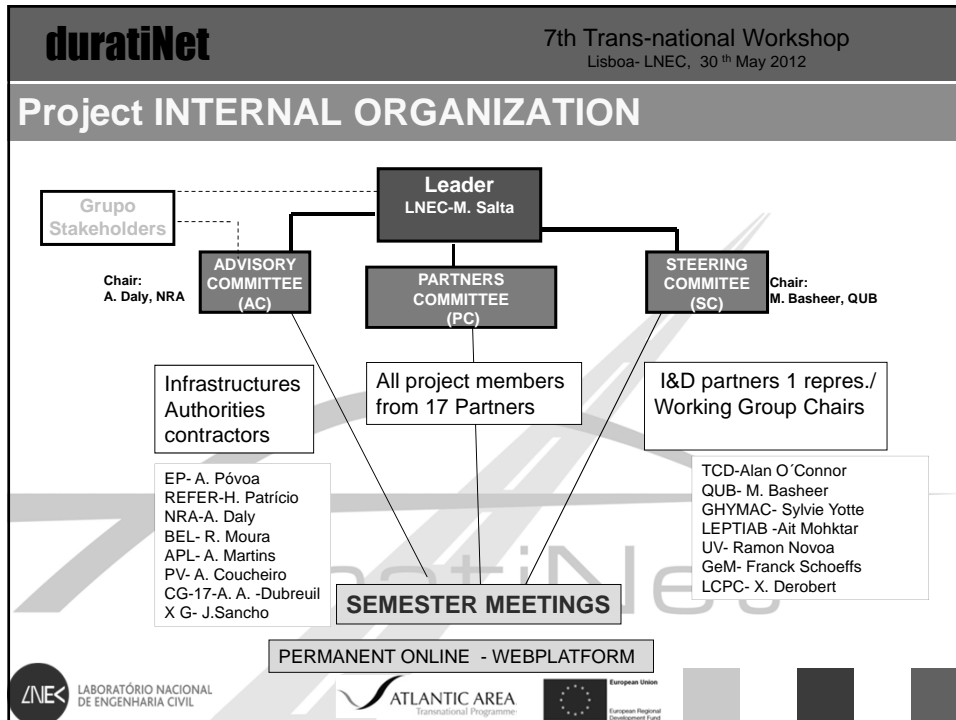
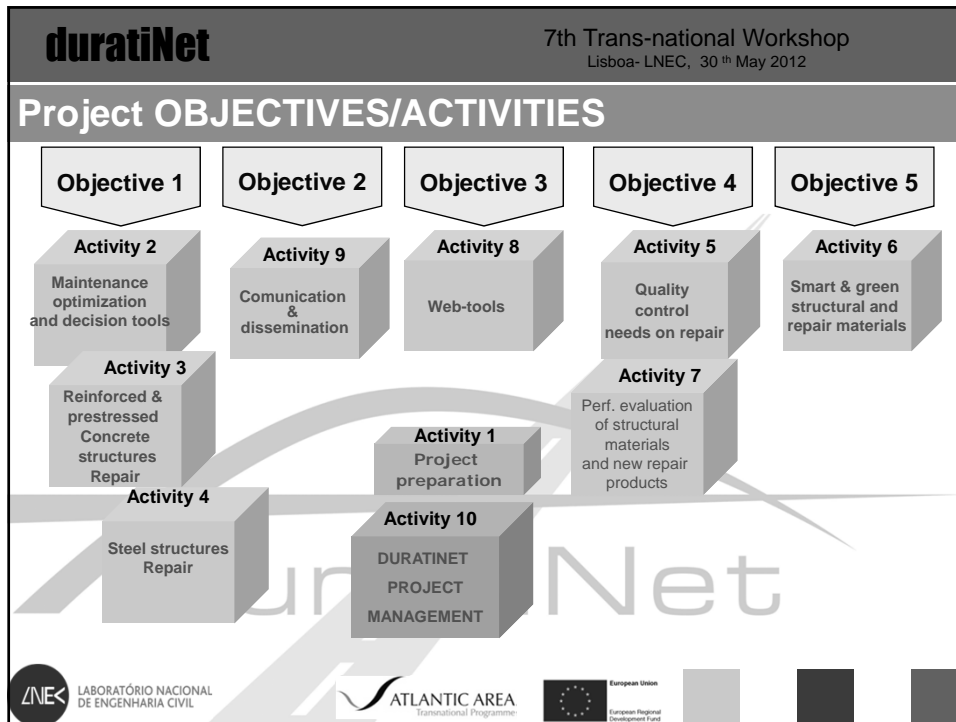
SHORT - TERM OBJECTIVES AND RESULTS | **LONG-TERM OBJECTIVES AND RESULTS**

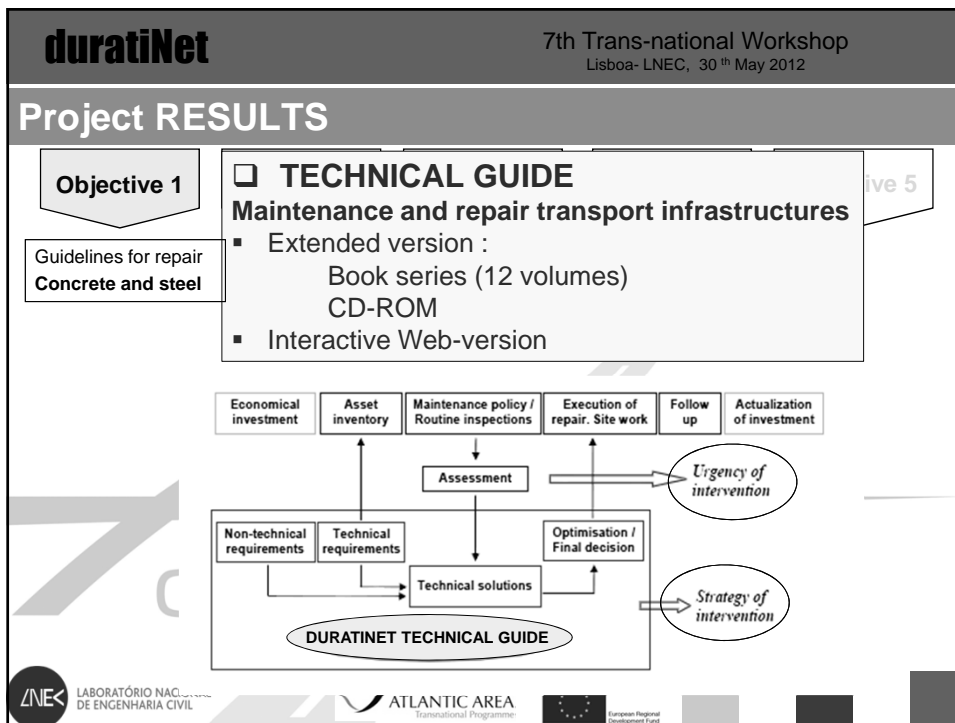
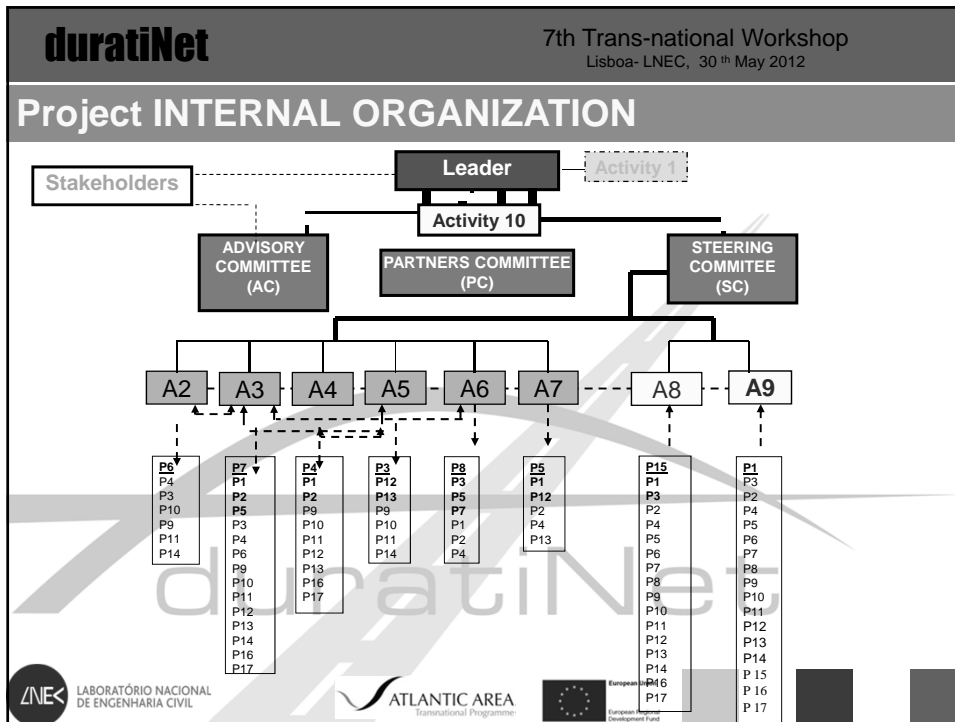
MAIN GOAL NETWORK FOR TRANSFER KNOWLEDGE On MAINTENANCE AND REPAIR OPTIMIZATION TRANSPORT INFRASTRUCTURES For sustainable development

DURATINET Durable Transport Infrastructures in the Atlantic Area - Network

Cluster "Green and Smart Structural Materials"

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DURATINET TECHNICAL GUIDE

TG Web version
<http://duratinet.org/techguide>

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DURABLE TRANSPORT INFRASTRUCTURE IN ATLANTIC AREA NETWORK

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maintenance and repair of transport infrastructure TECHNICAL GUIDE

Summary

<http://duratinet.org/techguide>

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Project RESULTS

Knowledge dissemination
new competences

Objective 2 Objective 3 Objective 5

- (7) Transnational Workshops for end-users
- ICDS12 and Medachs10 - International Conferences (co-organization)
- Course "T. Tech. Structures Inspection" and practical demonstrations
- (2) Special sessions DURATINET
- Participation in 31 Int. Conferences



- (7) newsletters
- (1) final project report
- Flyers, posters, press news

- 8 grants creation (background to facilitate new jobs)

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Project RESULTS

Objective 2: Developments of web tools

Objective 3 Objective 4 Objective 5

- Website DURATINET
www.duratinet.org
- TechGUIDE Web-version
<http://duratinet.org/techguide>
- DB-DURATI
- Webplatform for partnership communication



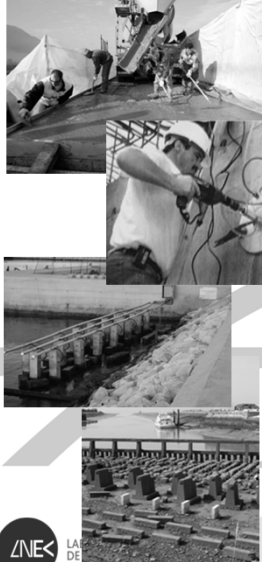
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Project RESULTS






Quality control, products and repair methods

Objective 4

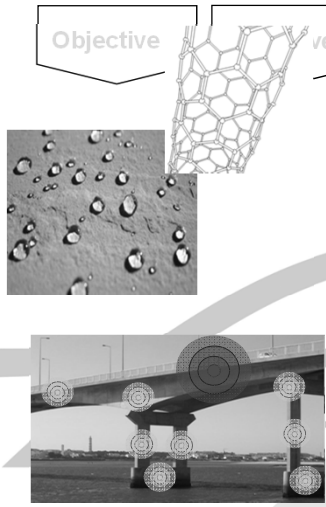
Objective 5

- TR5.1 :Repair materials
- TR 5.2: Execution of repair works
- TR 5.3:Reinforced concrete structures rehabilitation in maritime environment - Quality control
- TR7.1 : Repair systems in structures practical cases
- TR 7.2: Repair systems in small scale samples exposed in experimental sites

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Project RESULTS



Cluster "Green and smart materials"

Objective 5

- TR6.1: Repair and green concrete
- TR 6.2: Fiber reinforced polymer composite materials used in civil engineering
- TR 6.3: Stainless steel rebars
- TR 6.4: Smart structural materials with permanent monitoring system for concrete: novel sensors for monitoring the durability of concrete structures
- TR 6.5: Corrosion monitoring systems installed in portuguese structures

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FINAL CONCLUSIONS




-  **Main goal**
DURATINET NETWORK
will stay after project closure www.duratinet.org
-  **Objectives**
100% accomplish
-  **Execution :**
100% physical execution
>95% financing execution
-  **Indicators**
relevant results indicators achieved and some overpassed

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FINAL REMARKS / CONCLUSIONS




- 7 Transnational Workshops** (>400)
- 2 Special Sessions**
(Repar10, ASCP ´11) (>450)
- Course** “testing techniques for structures inspection” + practical demonstration
70 registrations
10 formadores
- ICDS12 and medachs10**, (co-organization)
>200 and 100 registrations

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FINAL REMARKS / CONCLUSIONS

- TECHNICAL GUIDE**  innovation
- DB- DURATI**  innovation
- Several publications** for project dissemination (newsletters, flyers, posters..)
- 32 interim reports**
- 10 Technical reports**

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FINAL REMARKS / CONCLUSIONS

- > 15,000 visits** to the SITE (500/month)
- > 400 participants** in TWorkshop (5 countries)
- 32 participations** in International FORUM with oral conferences for dissemination DURATINET activities
- Stakeholders** : 200 preferencial contacts

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Experimental sites

- PT
- FR

Testing new materials



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**The last but not the least
DURATINET RESULTS/END PRODUCTS**

the most important : for social sustainability in AA!



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DURATINET NetWork - future

DB- DURATI

- Materials DURABILITY INDICATORS**
service life model
- Performance materials and repair products
- Performance repair systems
- Testing techniques applications

LNEC:DB administration

PARTICIPANTS & USERS




- DURATINET PARTNERS
- Owners/Infrastructures administrations
- Products/materials developpers
- Consultants, designers
- Contractors
- Research

AA CLUSTER:

- GREEN AND SMART MATERIALS**

et

Contribution for **sustainable construction**

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THANK YOU!

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