ERA-NET ROAD-Programme

and Asset Management

5th September 2012

EPAM4, Malmö
The ENR Programme

1. What have we achieved?

2. What have we actually done?

3. What are the success factors?
A modell of transnational cooperation (the TOOLKIT)
TOOLKIT Scheme

- Priority List
- Thematic WS
- DoRN
- ...

- PEB Kick-Off
- Joint Meeting
- Progress Meetings
- ...

- Final Conference
- Final Report
- Communication
- Implementation
- ...

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- Workshops
- Questionnaires
- DoRN
- CA
- GIA
- AF
- Selection
- Contracts
- MPR
- Final Conference
- Programme Report
- Communication Plan

5th September 2012
Role of Programme Executive Board

• New transnational call only when the need for research is identified as being of specific benefit to CEDR members

• The funding NRAs set up a dedicated body called a “Programme Executive Board” (PEB)
  – Made up of representatives of the funding CEDR members only
  – The Programme Manager in a non-executive capacity

• The owner of the Programme is the PEB

• Outputs to be shared by all CEDR members

• The PEB is formally set up by its members through a detailed “Collaboration Agreement” (CA):
  – Agreed and signed by representatives of NRAs
  – Also signed by individual PEB members
Internal management of the PEBs

• The PEB is established by the funding NRAs
  – One PEB member for each country represented
  – One PEB Deputy for each country represented

• The *Programme Executive Board Chair*
  – Elected from the PEB members
  – Acts as leader of the programme.
  – The Chair prepares and chairs the meetings of the *PEB*.

• The *Programme Manager (ProgM)*
  – Manages the Transnational Research Programme
  – Appointed by TGR
  – The ProgM is a non-executive member of the PEB
  – He/she reports the progress of the Programme to the PEB and TGR as requested
  – The ProgM should be a CEDR member
Roles and Responsibilities

Programme Executive Board

PEB chair (PEC)

Programme Management (ProgM)

Project A

Project B

Project C

Project D
Collaboration Model

Budget flow

Programme-Management

Coordinator A

Coordinator B

PEB

F2

F3

F4

F1

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RA2

RA1

RA3

RB6

RB7

RB5

Projekt A

Projekt B

5th September 2012

What have we done?

Several cross-border funded calls
“Road Owners Getting to Grips with Climate Change”

1st cross-border funded joint programme

FINISHED

information on www.eranetroad.org
Programme Objectives

Road Owners Getting to Grips with Climate Change

• Provide Road Administrations with tools to identify and prevent problems with road infrastructure due to climate change
  • Risk Analysis and Risk Management
  • Climate Impact on Road Infrastructure
  • Mapping and classifying vulnerable structures
  • Climate change scenarios
  • Adapting design rules and specifications
Road Owners Getting to Grips with Climate Change
(ENR SRO3) June 2008 – May 2011

• 11 funding partners in the Programme Executive Board with Sweden as Programme Manager (AT PEBchair)
• AT, DK, ES, FI, DE, IE, NL, NO, PL, SE, UK, max. research budget: EUR 1,5 million
• Call open from 22.03.-12.05.2008
• 19 proposals were submitted
• 4 projects were selected
  (finally research budget EUR 1,2 million)
Project Overview

- **RIMAROCC**: Risk Analysis and Risk Management
- **IRWIN**: Adapting design rules and specifications
- **P2R2C2**: Climate Impact on Road Infrastructure
- **SWAMP**: Mapping and classifying vulnerable structures
Dissemination

- **Kick-Off** in Copenhagen 13.03.2008
- **Joint Meeting** at Climate Change Conference in Oslo 31.3./1.4.2009
- **Final Conference** in Cologne 9.12.2010
- **Final Programme Report**
- **Results are used in NO, NL, FI**
“Safety at the Heart of Road Design”

2nd cross-border funded joint programme

FINISHED

information on www.eranetroad.org
Programme Objectives

Safety at the Heart of Road Design

Improve Road Safety by increasing the awareness and acceptance of road authorities

- Development of evaluation tools
- Assessment of forgiving road (FR) safety measures
- Comparison and implementation of approaches of self-explaining roads (SER)
Programme Overview

Safety at the Heart of Road Design
(ENR SRO1) January 2009 – December 2011

• 11 funding partners in the PEB
  with AT as Programme Manager (SE is PEBchair)

• AT, BE, FI, HU, IE, DE, NL, NO, SI, SE, UK
  total budget in EUR 1,650,000
  Research budget: EUR 1,485 million

• Call open from 06.03.-27.04.2009

• 18 proposals were submitted

• 5 projects were selected
  (final research budget EUR 1,484 million)
Project Overview

- **ERASER**: common approach to SER
- **RISMET**: evaluation tool for SER
- **SPACE**: focus on speed adaptation (SER)
- **IRDES**: evaluation tool and guidelines for FR
- **EuRSI**: automated roadside mapping (FR)
• **Kick-Off** in Malmö 03.02.2009

• **Joint Meeting** at CEDR TG Road Safety meeting in Budapest 4.3.2010

• **Final Conference** in Stockholm 13.01.2012

• **Final Programme Report**

• Results useful for many countries
“Effective management meeting future challenges”

3rd cross-border funded joint programme

ONGOING

information on www.eranetroad.org
Programme Objectives

Effective management meeting future challenges

- Meeting stakeholders’ requirements and expectations
- Understanding asset performance
- Development of suitable Key Performance Indicators for the future
- Framework for optimized asset management
Effective management meeting future challenges
(ENR SRO4) July 2010 – December 2012

- **14 funding partners** in the PEB
  with DRI as Programme Manager and PEBchair
  BE, CH, DE, DK, FI, FR, IE, LT, NL, NO, SE, SI, UK

- Total Budget in EUR 2,850,000
  Administrative Budget (5%)
  Budget for unforseen (2%)
  max. research budget: EUR 2,650,500

- **20 proposals** were submitted

- **7 projects** were
Project Overview

- **SABARIS**
  Stakeholder benefits and road intervention strategies
- **EXPECT**
  Stakeholders’ Expectations and Perceptions of the future Road Transport System
- **HEROAD**
  Holistic evaluation of road assessment
- **SBAKPI**
  Strategic Benchmarking and Key Performance Indicators
- **EVITA**
  Environmental Indicators for the Total Road Infrastructure Assets
- **ASCAM**
  Asset Service Condition Assessment Methodology
- **PROCROSS**
  Development of Procedures for Cross Asset Management Optimisation
Dissemination

- **Kick-Off** in Copenhagen 17.12.2009
- **Joint Meeting** in Copenhagen 22.06.2010
- **Transportation Research Board conference**, Athens, April 2012
- **European Pavement Asset Management Conference**, Malmö, September 2012
- Projects are ongoing
Focus on implementation in 2012-2013

Reports
Social benefit report  March
Technical report  March
For more information

- Programme Leader
  Mette Holm Duelund, DRD
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- PEB-chair
  Bjarne Schmidt, DRD
  bjs@vd.dk

- Website: “assetcall”
ENR CALLs 2011
Mobility - Design - Energy
4th cross-border funded joint programme

ONGOING

All updated information on www.eranetroad.org
Programme Objectives

Mobility - Getting the most out of Intelligent Infrastructure

1. **Impact Assessment** of ITS
2. Effective **distribution of road authority data**
3. **High quality traffic management/information data** and incident detection
4. Implementation of **short term prediction**
Programme Overview

Mobility - Getting the most out of Intelligent Infrastructure

6 funding Parties
BE, CH, DE, NL, NO, **UK** (PEB chair)
AT (as PM)
Total Budget of EUR 1.800.000
- 5 % Administrative Costs
- 2 % Final Conference/Report
Total Research Budget EUR 1.675.000
Project Overview

Mobility - Getting the most out of Intelligent Infrastructure

- **Submitted:**
  22 proposals, 73 partners, 11 different countries

- **Selected:**
  5 projects, 18 partners, 6 different countries
  - **COBRA:** Cooperative Benefits for Road Authorities
  - **SEAMLESS:** Seamless traffic data dissemination across urban and inter-urban networks
  - **QUATRA:** Software and Services for the Quality Management of Traffic Data
  - **RAIDER:** Realising Advanced incident Detection on European Roads
  - **STEP:** Short Term Prediction

Trust. Understand. Commit. 5th September 2012
Programme Objectives

Design - Rapid and durable Maintenance Methods and Techniques

1. Safely optimising road network availability during maintenance
2. Durable construction and maintenance methods
3. Strategies for reducing maintenance costs
Programme Overview

Design - Rapid and durable Maintenance Methods and Techniques

10 funding Parties
BE, DE, DK, FI (PEB chair), FR, NL, NO, SI, SE, UK
AT (as PM)
Total Budget of EUR 1.980.000
- 5 % Administrative Costs
- 2 % Final Conference/Report
Total Research Budget EUR 1.841.400
Design - Rapid and durable Maintenance Methods and Techniques

- **Submitted:**
  20 proposals, 84 partners, 17 different countries

- **Selected:**
  6 projects, 27 partners, 15 different countries
  - **STARS:** Scoring Traffic at Roadworks
  - **POTHOLE:** Durable pothole repairs
  - **RECYPMA:** Possibilities for High Quality recycling of polymer modified asphalt
  - **MOBI-ROMA:** Mobile Observation Methods for Road Maintenance Assessments
  - **TOOLBOX:** Toolbox, A method to select maintenance candidates
  - **Intermat4PMS:** Integration of material-science based performance models into life-cycle-analysis processed in the frame of PMS
Programme Objectives

Energy - Sustainability and Energy Efficient Management of Roads

1. Sustainability: Develop a **common understanding of sustainability** and development of rating system

2. Provide an **energy efficient road infrastructure** (construction, maintenance and operation)

3. Determine the most important road **infrastructure characteristics** which influence energy consumption
Programme Overview

Energy - Sustainability and Energy Efficient Management of Roads

7 funding Parties
DE, DK, IE, NL, NO, SE (PEB chair), UK
AT (as PM)
Total Budget of EUR 1.350.000
- 5 % Administrative Costs
- 2 % Final Conference/Report
Total Research Budget EUR 1.255.500
Energy - Sustainability and Energy Efficient Management of Roads

- **Submitted:**
  12 proposals, 42 partners, 13 different countries

- **Selected:**
  4 projects, 19 partners, 10 different countries
  - **SUNRA:** Sustainability - National Road Administrations
  - **CEREAL:** CO2 Emission REduction in roAd Lifecycles
  - **LICCER:** Life Cycle Considerations in EIA of Road Infrastructure
  - **MIRAVEC:** Modelling Infrastructure influence on Road Vehicle Energy Consumption
• **Kick-Off** in Vienna 15.12.2010

• **Joint Meetings**
  
  – **Mobility**
  
  – **Design**
    • Vienna 23.11.2011
  
  – **Energy**

• Projects are ongoing
CEDR CALLs 2012

5th cross-border funded joint programme

EVALUATION PHASE
Call 2012

- The CEDR Transnational Road Research Programme:
- Call 2012 closed on 17th July 2012.
- The topics being addressed were:
  - **Recycling**: Road construction in a post-fossil fuel society
  - **Noise**: Integrating strategic noise management into the operation and maintenance of national road networks
  - **Safety:**
    - Safety of road workers and interaction with road users
    - Use of vehicle restraint systems
  - Road owners adapting to **Climate Change**
The success factors?


5th September 2012
Success Factors

Trust.
Understand.
Commit.
Thank you for your attention

Trust.
Understand.
Commit.

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5th September 2012