NETLIPSE

Network for the dissemination of knowledge on the management and organisation of Large Infrastructure Projects in Europe

OMEGA Centre for the Study of Mega Projects in Transport and Development

London, 18 March 2009

Stuart Baker, Supervisory Board (DfT UK)
Marcel Hertogh, Programme Director (AT Osborne NL)



NETLIPSE



This presentation covers:

- What is NETLIPSE?
- Who are we?
- What are our goals?
- What are our plans?

NETLIPSE



NETLIPSE:

- Network ...
- for the dissemination of knowledge ...
- on the management and organisation ...
- of Large Infrastructure Projects in Europe.

Two phases:

- Phase 1: NETLIPSE Started as a 2-year research programme in the Sixth European Framework Programme, FP6 (May 2006 – May 2008).
- Phase 2: Continuation (and expansion) of the network. Establishment of an Institute. Realisation of the Infrastructure Project Assessment Tool (IPAT)

Motivation



The European Union and (new) member states:

- address the need for a Trans European Transport Network (TEN-T) in the White Paper: Time to Decide (2001);
- have already invested billions in the construction of several Large Infrastructure Projects (LIPs) to create the TEN-T.

But, these organisations:

- have limited possibilities for forecasting and monitoring the effectiveness of these projects;
- face large delays and cost overruns on the supported projects and experience local opposition;
- notice that knowledge exchange between Large Infrastructure Projects (LIPs) is scarce.

NETLIPSE Initiators





Ir. Leendert Bouter, Ministry of Transport, Public Works and Water management, NL (Chairman Executive Board)



Mr. Stuart Baker, Deputy
Director National Projects,
Department for Transport, UK



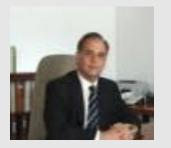
Prof. Dr. ing. Geert Teisman, Professor of Public Management, Erasmus University Rotterdam, NL



Prof. Dr. Hans-Rudolf Schalcher, Professor of Planning and Management in Construction, ETH Zürich, CH



Prof. dr. hab. inz. Leszek Rafalski, Director of IBDiM, Warsaw, PL



António Lemonde de Macedo, Head of the Transportation Department of LNEC, Lisbon, PT



Ing. Han Kok, Director of KPC GmbH, Bern, CH



Ir.drs. Marcel Hertogh Director AT Osborne, Utrecht, NL

NETLIPSE Goal 1







Research: Best Practises and Lessons Learnt

The projects researched





Projects (mode):

- Betuweroute (rail)
- 2. Ring road Bratislava (road)
- 3. Gotthard Base Tunnel (rail)
- 4. HSL-South (rail)
- Lezíria Bridge (road)
- 6. Lisbon Porto (rail)
- 7. Lötschberg Base Tunnel (rail)
- 8. Maaswerken (water)
- 9. Motorway A2 (road)
- 10. Motorway A4 (road)
- 11. Motorway E18 (road)
- 12. Nuremberg Ingolstadt (rail)
- 13. Øresund bridge (road & rail)
- 14. Unterinntalbahn (rail)
- 15. West Coast Mainline (rail)

Book, published June 2008



Book

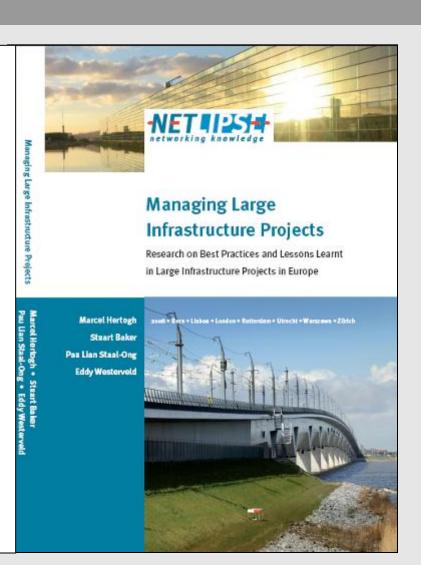
Managing Large Infrastructure Projects

'Research on best practices and lessons learnt in large infrastructure project in Europe'

Containing:

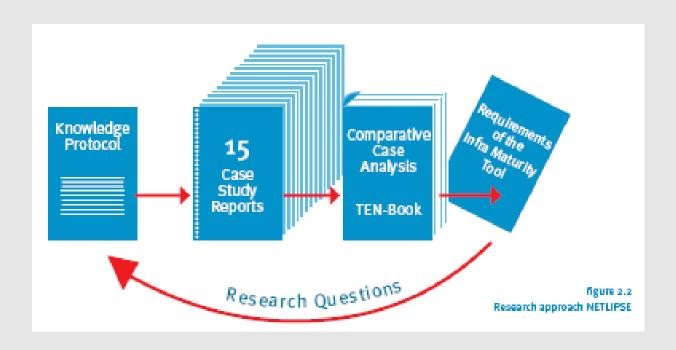
- NETLIPSE project overview
- Main findings
- Best practises & Lessons learnt
- Future activities and goals

ISBN 978-90-810025-2-3 available at www.netlipse.eu



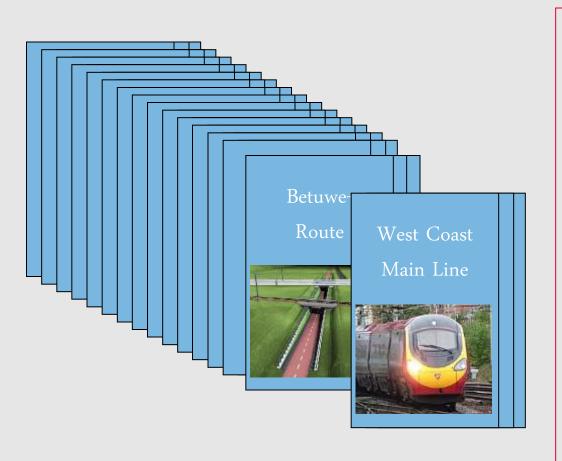
Research: Methodology





15 projects – 15 reports





Case Study Report

Contents:

- 1. Preface
- 2. Project Facts & Figures
- 3. Stakeholder network
- 4. Project History
- 5. Historical Analyses
- 6. Best practises and lessons learnt (8 themes)
- 7. Summary and Conclusions

Appendix: Checklists

15 projects – 8 themes researched



8 themes:

- 1 Objectives and Scope
- 2 Stakeholders
- 3 Finance
- 4 Organisation and Management
- 5 Risks (Threats & Opportunities)
- 6 Contracting
- 7 Legal Consents
- 8 Knowledge & Technology

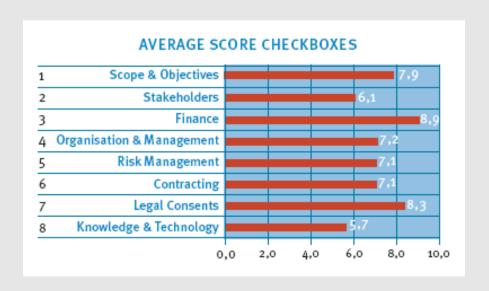
Questionnaire per theme:

- 1. Questions
 - appr. 15 per theme
- 2. Checks
 - Score: None Partly Fully
 - 5-8 checks per theme
- 3. 3 general questions
 - What is essential in the success of ... ?
 - Best practise?
 - What did you learn?

15 projects – Quantitative analysis



Numerate analysis of the state of projects studied by use of the simple check boxes in the research on the 15 Projects.



Personal Perspective on NETLIPSE Studing known

- West Coast Main Line (GB)
- Betuweroute (NL)
- Øresund (DK/SE)
- Bratislava Ring Road (SK)

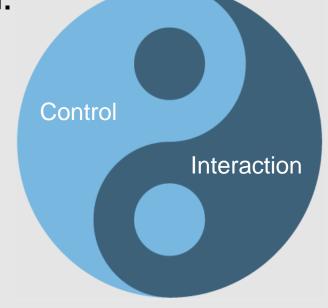
Main Findings – 1 Initial Stages



- Many projects did not have clear business cases and some lacked defined output requirements
- Projects need to be managed as a whole to deliver the necessary outputs
- Need for realism in the early stages that the scope and costs are ill defined
- Cost control good after scope fixed problem is announcing costs publicly before scope of works
- Consensus of need for project critical major projects usually last longer than governments!

Main Findings – 2 Client & Project Delivery

- Define respective roles & responsibilities
- Need for competence in <u>both</u> parties
- Define cost & scope control mechanisms
- Effective management of LIPs needs a hybrid approach combining control and interaction.



Main Findings – 3 Risk Management



- Define between Client and Project Delivery Organisation (PDO)
- Clear and timely reporting
- PDO to assess, manage and report
- Good Reporting no shocks, no surprises
- Allocate risks to party best able to manage them
- Remember that the client/sponsor always holds the output risk – cannot, in the ultimate, delegate this to PDO or others.

Main Findings – 4 Skills and Knowledge



- Internal communications and HR issues frequently neglected
- External stakeholder communications usually allocated good resources
- Knowledge exchange often very weak both learning from others and passing lessons on to other projects
- But lessons and best practices cannot be passed on without understanding the context
- Poor availability of specific training for LIPs

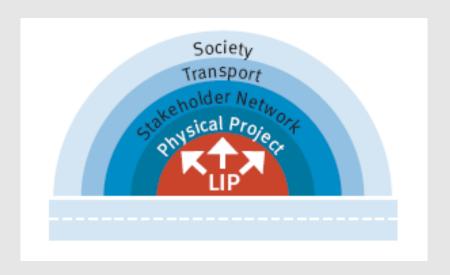
Main Findings – 5 Operation and Results



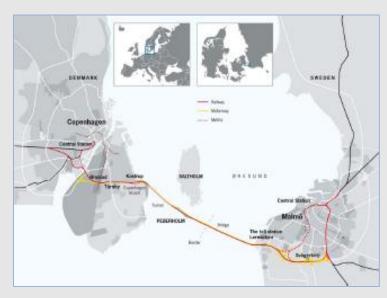
- PDO and designer to take whole life effects into account in specification and design
- Operator(s) and maintainer(s) need to be linked to project at an early date
- Careful handover essential from project to operation and maintenance
- Most projects over achieved against their demand forecasts
- Step changes in connectivity are very hard to model.

Main Findings - The level of shared perceptions



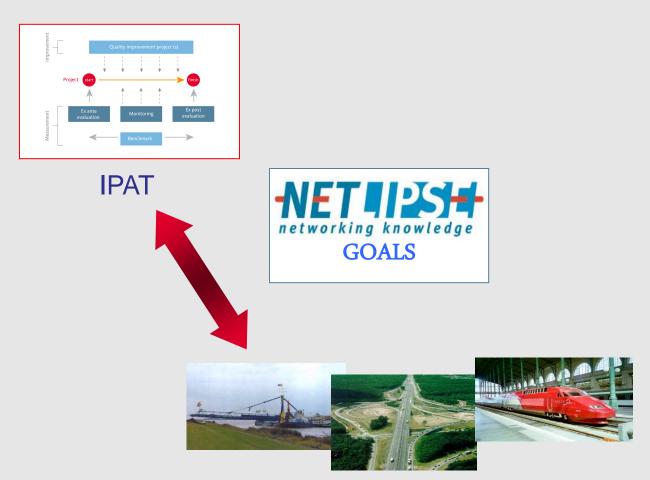






NETLIPSE Goal 2

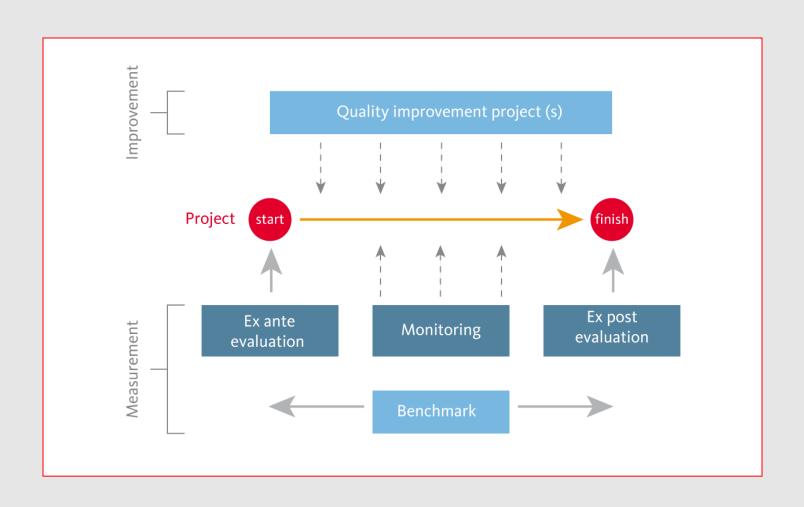




Research: Best Practises and Lessons Learnt

IPAT: Infrastructure Project Assessment Tool **NET_IPAT:**





NETLIPSE Goal 3





Research: Best Practises and Lessons Learnt

Network Meetings and Newsletters









CONTENT
FORWARD with this
Newshite of EUIDPES
Organization, roles and
responsibilities.
Who is intillipate
Organization, roles and
responsibilities.
Who is under a
Who and is appeared from
the U.S. an interview
the U.S. an interview
the U.S. and the organization
that roles with
Marcel Review
Land religious or
Part Foliation on
Falmenings Protocit
Interview
that roles with
Marcel Review
Land religious
Land re











Reflections on the Network Meeting





Next Network Meeting



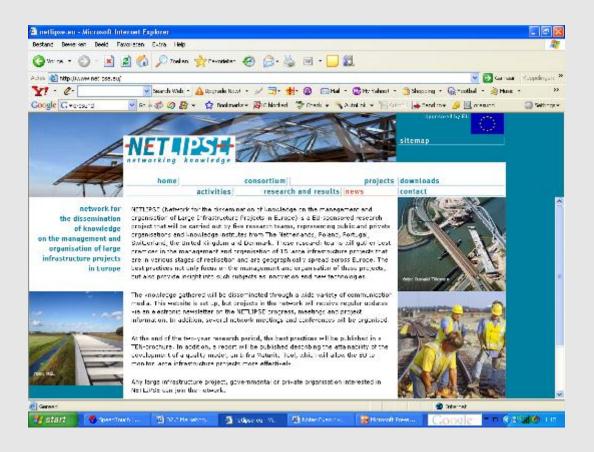
Join us at the next Network Meeting:
 Amsterdam, April 20 & 21 2009.





www.netlipse.eu





European Commission Annual Call for Proposals 2008







EUROPEAN COMMISSION

TRANS-EUROPEAN TRANSPORT NETWORK
Annual Programme

Multi-Annual Work Programme 2007-2013



		\Rightarrow	
Call Appl.	Decision	Contract?	
May June	European Commission	May	
2008 2008	19-11-2008	2009	

NETLIPSE Partners (2008 annual call) NETLIPSE Partners (2008 annual call)



1.	Ministry of Transport	The Netherlands
2.	Department for Transport	United Kingdom
3.	AT Osborne B.V.	The Netherlands
4.	National Laboratory for Civil Engineering	Portugal
5.	Road and Bridge Research Institute	Poland
6.	UNECE TEM Project	United Nations
7.	Swiss Federal Institute of Technology ETH Zürich	Switzerland
8.	ProRail	The Netherlands
9.	Transumo	The Netherlands
10.	KPC GmbH	Switzerland
11.	University of Kassel	Germany
12.	Erasmus University Rotterdam	The Netherlands
13.	Maribor University	Slovenia
14.	Politecnico di Milano	Italy
15.	Femern Baelt A/S	Denmark
16.	Aalborg University	Denmark
17.	Rijkswaterstaat Maaswerken	The Netherlands
18.	ESC Lille	France

Current contacts with EIB and World Bank.

European Commission Annual Call for Proposals 2008



NETLIPSE Proposal 2008-2010:

No.	Activity title	
Activity 1	Establishing the Foundation	
Activity 2	Expanding the NETLIPSE network and knowledge exchange	
Activity 3	Developing the Infrastructure Project Assessment Tool (IPAT)	
Activity 4	Developing Training Programmes	
Activity 5	Overall administration 1. IPAT assessors	

2. Mgt. of LIPs

NETLIPSE Foundation Article 2: Objectives



The objectives of the Foundation are: to initiate, promote and encourage the successful development, delivery and operation of large infrastructure projects throughout Europe, aimed at positively influencing the living environment and economy in Europe.

Programme 2009



Main activities forthcoming months:

- Jan. 2009 Start development of IPAT
- Febr. 2009 Newsletter #5
- April 2009 Network Meeting, The Netherlands
- May 2009 Contract EC on Annual Call (?!)
- Summer Establishment Foundation
- Autumn Testing IPAT
 - Newsletter #6
- April 2009 Network Meeting
- Dec. 2009 Delivery IPAT



Thank you for your attention

Questions and Discussion