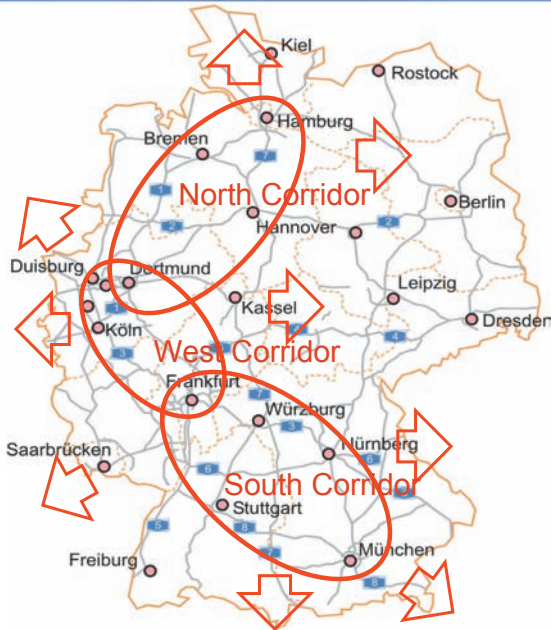


Centrico BRIEFING NOTE

Using ITS to manage Europe's busiest roads



LDC Network Management First Pilots in Germany

SUMMARY

Within the LDC Project an initiative about network management was found by member states and regions of different Euro-regional projects. Within the framework of this initiative an Intermodal Strategy Manager (ISM) will be developed and used. The ISM is based on server to server / client architecture and applies pre-defined traffic management strategies. An evaluation determines the benefit of the strategies.

INTRODUCTION

In the context of the Long Distance Corridor (LDC) project partners of the Euro-regional projects CENTRICO, CORVETTE, VIKING and SERTI started an initiative about network management. The initiative has two objectives:

- To develop and to use an Intermodal / Interregional Strategy Manager (ISM), based on a server to server / client architecture.
- To implement and to evaluate three LDC pilot corridors.

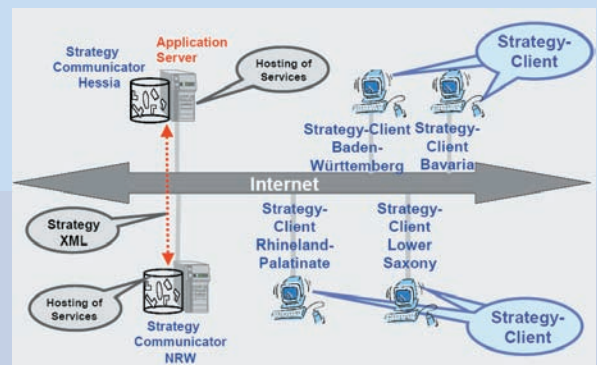


Dynamic Display Panels in Hessen

TECHNICAL APPROACH OF THE ISM

Two strategy communicators will be set up in Hessen and in Nordrhein-Westfalen. Both will be strategy-communication-application servers for the other partners such that the management in two of the three LDC pilot corridors can be applied within the test phase. The strategy communicators have the task to:

- Co-ordinate the acceptance process between the involved partners for the activation of long-distance re-routing measures (workflow-support and monitor)
- Monitor the strategy status
- Monitor the communication between the partners
- Host the strategy client of neighbours without extra own IT-infrastructure
- Visualise strategies conforming to the OGC standard (webmap server).



Architecture for the LDC Management



Supported by the European Commission DG TREN-TEN-T



Centrico BRIEFING NOTE

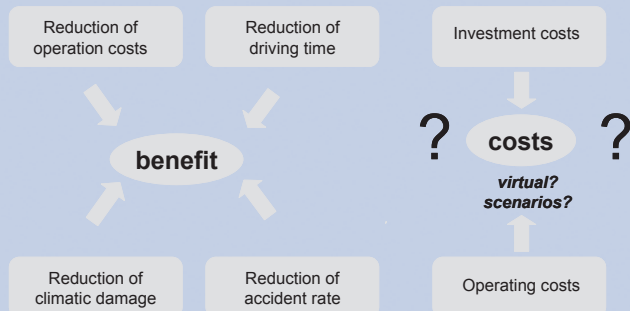
Using ITS to manage Europe's busiest roads

EVALUATION

To evaluate the effective re-routing measures and their organisational framework, a field trial on two LDC pilot corridors will be carried out in 2006. The aim is to determine the effects of traffic management and to study the effectiveness of the procedures used.

Main subject of the evaluation is a cost-benefit analysis based on the German "EWS – Recommendations for economic feasibility studies for roads".

The analysis will quantify the benefit of the measures / strategies. Benefit results from the reduction of the operating costs, the reduction of the driving time, the reduction of the climatic damage and the reduction of accidents. First tests have shown that the reduction of driving time is the main benefit of the re-routing measures. It amounts about 84 % of the total benefit.

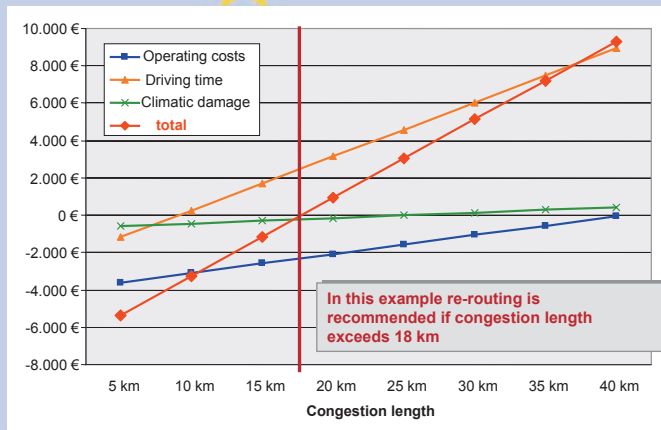


Cost and benefit factors

This assessment will also allow to produce a recommendation for the activation of the dynamic display panels will be worked out. A threshold value of the congestion length will be identified, from which point on the signage of a certain alternative route is beneficial.

A further important aspect of the field trial is the organisational level. It will be analysed by means of interviews with the operators and questionnaires.

The field trial will be carried out in September and October 2006. Results of the evaluation will be available at the end of 2006.



Threshold value of the congestion length

ACHIEVEMENTS

Technical implementation of re-routing measures on three long distance corridors use DATEX II Low Cost Profile – conform approach for data exchange and OGC (Open Geospatial Consortium) for the integrated visualisation of traffic situation information in international LDC. This approach can be easily transferred to other re-routing corridors and the respective traffic centres as it works "on top" the existing monitoring and control technologies.

The results of the evaluation will be an important contribution to optimise cross-regional traffic management. They can easily be transmitted and applied to other cross-border long distance corridors. Thus, the LDC network management initiative contributes to optimise traffic management on any LDC in Europe.

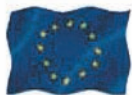
For more information on this topic, please contact:

Gerd Riegelhuth

Gerd.Riegelhuth@hsvv.hessen.de

For further information on other CENTRICO activities visit:

www.centrico.org



Supported by the European Commission DG TREN-TEN-T

