

The logo for EURNEX, featuring the word "EURNEX" in a bold, blue, sans-serif font. The letters are slightly shadowed and have a horizontal line passing through them, giving it a dynamic, forward-moving appearance.

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EURNEX

EUropean **R**ail research
Network of **EX**cellence

SIXTH FRAMEWORK PROGRAMME

PRIORITY 1.6.2: SUSTAINABLE SURFACE TRANSPORT

Pole Action Plan

Pole 5: Intelligent Mobility

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Introduction

Based on the workshop discussions during the 2nd EURNEX Integration Conference each pole of excellence has to prepare an **action plan** to develop and to consolidate the pole within the next critical months. The Action Plan is therefore the “short-term precision” of the mid-term/long-term pole strategy. In order to ensure consistency within EURNEX a template for the action plan had been prepared (see following pages). It is divided into sections with boxes indicating the expected content for the section concerned.

As emphasised on the Integration Conference again, the European Commission expects from EURNEX the more efficient use of the rail research resources. In essence, for our preliminary poles this means:

- Concentration and specialisation
- Integration of research
- Interdependency among pole members

The action plan therefore has to reflect the steps on how to achieve this. Moreover, the contribution of each pole to the durable, long lasting EURNEX business case must be addressed, in particular by the project acquisition planning.

With the aim to cover the relevant items for short-term pole development, the action plan template covers the following sections:

- ❖ Objectives of pole
- ❖ Capabilities involved
- ❖ Collaboration opportunities identified
- ❖ Capability gaps still existing
- ❖ Projects towards Business Case
- ❖ Other actions supporting the establishment of the pole
- ❖ Pole development and milestone planning

It is apparently not necessary to prepare a comprehensive report. The focus should be on understandable and verifiable statements providing the ideas on how to move forward with pole development. Even if not every detail can be described or anticipated today the first issue of the action plan should be prepared as soon as possible, because its submission is the condition to achieve support from the EURNEX WP's.

Due to its importance to achieve support for pole development, the draft of the action plan should be prepared as soon as possible, but not later than **31 March 2005**.

The action plan shall be a “living document” to be periodically updated.

Pole Action Plan

Pole 5: "Intelligent mobility"

1 Objectives of the pole

The key challenge for sustainable mobility is to reduce the impact of transport on the physical, social and human environment. Thus, it is urgent to promote a set of solutions in order to optimize the use of existing infrastructures for road and rail domains, to enhance safety and security, to reduce exploitation and maintenance costs and to offer new services developing intermodality behaviours. "Intelligent mobility" relies on new communication, navigation and surveillance (inside or outside the vehicle) technologies able to answer the needs for lean, clean and clever transport systems. In the EURNEX pole 5 we will focus on the solutions encouraging the use and development of rail transport.

Contents of the pole:

The pole will address several modes (HSR, Freight, Other Conventional rail passenger, Urban rail (metro, LRT...), Co-operation between railway systems, Co-operation with other modes.

The customers for the researches are Passengers, Freight customers, Railway undertakings, Infrastructure managers, New service providers (to be identified: database management...).

The applications should cover the following contents:

Information systems (Passenger, Freight, Remote-Diagnosis, Predictive maintenance, Traffic management), Ticketing and payment/refund systems, Security (systems and users), Railway system management.

2 Capabilities involved in the pole

Main topics of research with relevance to pole

The pole members shall cover a range of capabilities:

- Technology for Intelligent Mobility (Communication, navigation, surveillance and EMC)
- Telematics
- Presentation of information
- System architecture & Software (middleware)
- Service definition, human factors and cognitive skills
- System design and integration
- Data base

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This list has to be updated during the next meeting 27 and 28th of april

3 Collaboration opportunities

Strong collaboration will be established with the following poles:
Pole 2, 3, 6, 7, and 8.

To be completed

4 Projects towards Business Case

Main types of activities to be performed within the pole

- To organise Regular pole meetings to build projects such as STREP in the next calls
- To organise Research seminars
- To co-tutor PhD
- To develop cross invited lectures of members of the pole
- To develop young researcher exchanges
- To co-write publications
- To co-organise conferences or session in conferences

5 Other actions supporting the establishment of the pole

Internal knowledge sharing and mobility and external communication and promotion

Organisation of scientific meetings on specific scientific subject within the Pole and invitation of other member of EURNEX and invitation of Industry

6 Pole development and Milestone planning

Short term schedule (April – July 2005)

- workshop on pole integration	27-28/04/05
- establishing the pole structure	27-28/04/05
- completing the Action plan	27-28/04/05
- finalization the pole member list	27-28/04/05
- decision to organise an “intelligent mobility session” at the International Conference ICTTA'06	27-28/04/05
- summary list of initial proposal for projects	30/04/05
- project proposal draft	31/07/05

- web pages Pole 5

31/07/05

Mid term actions and milestones

- submission of proposals to EU

09/05

- projects launched by EU

01/06

- Pole 5 scientific seminar on one topic decided within the member

06/06