

Framework and Focus of the European Transport Research Agenda

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The Importance of Transport for Europe

Transport is

- the basis for Europe's social and territorial cohesion.
 - ensuring Europe's economic competitiveness.
 - allowing for commercial, economic and cultural exchanges.
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- ⇒ transport policy is becoming a core area of European policy
 - ⇒ transport policy aims at ensuring the mobility of people and goods, making for greater safety and security while fighting the undesired outcomes of traffic, namely environmental damage, social exclusion and economic “dysfunctions”



EC Transport Paper “Time to decide” 2001

Objectives of European Transport policy:

“Competitiveness and sustainability”

- shifting the balance between modes of transport
- eliminating bottlenecks
- setting users at the heart of transport policy
- managing the globalization of transport



EC Supported Transport Research

Definition of research strategies and research areas by so-called “technology platforms”:

- ERTRAC (road)
- ERRAC (rail)
- ACARE (air)
- WATERBORNE (sea and inland waterways)

plus other “institutions” like the OECD/ECMT Joint Transport Research Centre, ERA-Net, ECTRI



Research Agendas in the European Context

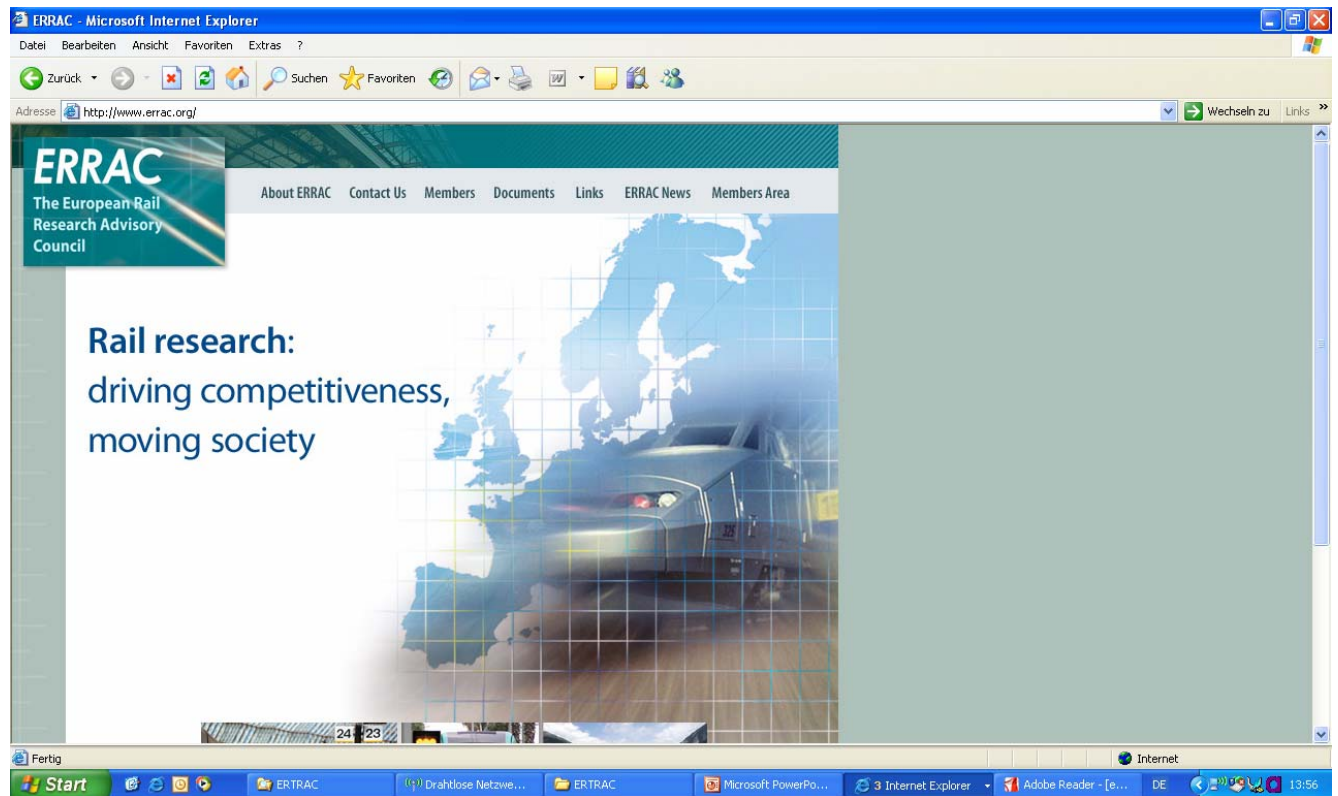
SRRA 2020	ERTRAC SRA 2020	SRA on Urban, Suburban, Regional Mobility	URBAMOVE	EURFORUM
ERRAC	ERTRAC	UITP	ECTRI	UITP & ECTRI
September 2002	December 2004	May 2005	May 2005	November 2007
Future of rail	Competitive- ness and sustainability of road transport	Vision for Urban public transport	Urban mobility across all modes	“Integrated Vision” on Urban mobility across all modes



Technology Platforms (1): ERRAC

ERRAC (European Rail Research Advisory Council):

Rail transport stakeholders – e.g. manufacturers, operators, energy suppliers, consumer organisations



ERRAC's Strategic Research Agenda 2020

“Research Clusters”:

- Interoperability
 - Traffic and transport management systems for mainline and urban transit: Mitigation and implementation strategies
 - Technologies to facilitate dedicated freight lines
 - Toolkit to enhance interoperability and modularity
 - Common operational rules
- Intelligent Mobility
- Safety and Security
- Environment
- Innovative Materials and Production Methods



ERRAC's Strategic Research Agenda 2020

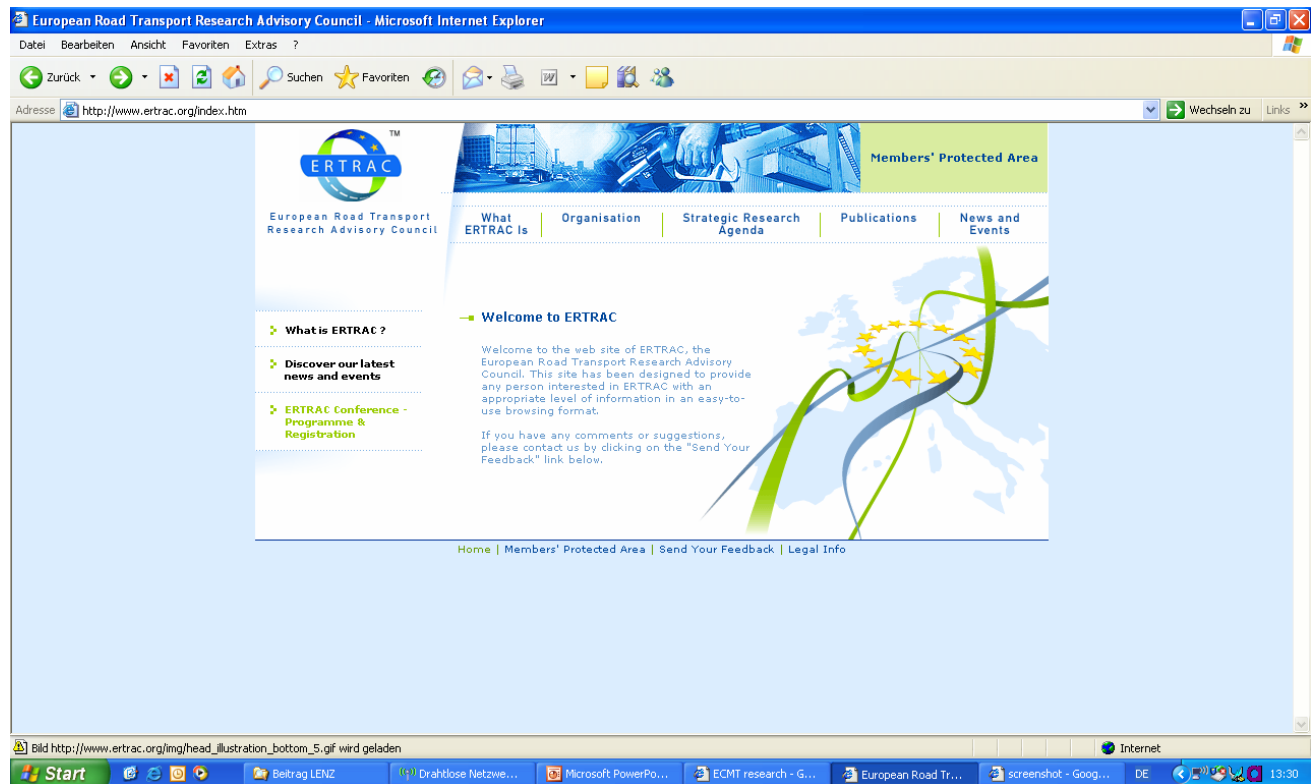
Main Targets:

- seamless passenger services
- customized freight services
- integrated mass transit services
- fully interoperable infrastructure
- modular interoperable rolling stock
- impact and sustainability



Technology Platforms (2): ERTRAC

ERTRAC (European Road Transport Research Advisory Council):
Road transport stakeholders – e.g. manufacturers, infrastructure operators, energy suppliers, consumers (drivers' organizations)



ERTRAC's Strategic Research Agenda 2020

Main Areas of the Strategic Research Agenda from 2004:

- Mobility and Transport
“Enhanced mobility, optimized and efficient seamless system”
- Safety and Security
“Safe and secure road transport system”
- Environment, Energy and Resources
“Cleaner, quieter and more energy efficient road transport system”
- Design and Production Systems
“Highly competitive and sustainable systems for products and services”



ERTRAC's SRA: Ranking of Research Topics (Example of Transport of People, scale 0-5)

Topic	Benefit to Society	Difficulty to Achieve
Mobility concepts	4.5	2.5
Land use	4.5	4.5
Social trends and behaviors	4.0	1.0
Mobility management	3.0	3.0
Multimodal interfaces	3.0	3.5
Information provision	2.0	1.0



ECTRI's URBAMove Research Agenda

Areas Identified for Future Research Needs, based on the close connection between transport, land use and urban development:

- **Dynamic efficiency: forecasting mobility solutions, adapting to changing demand**
- **Intermodality and interoperability**
- **Best modal choice promotion**
- **Economics**
- **Regulatory and institutional aspects**
- **Land use**
- **Social aspects**
- **Design and technology of public transport**
- **Information and communication technologies: What innovation in urban and periurban areas?**



The Stakeholders' Impact on the 7th EFP: FP7 core topics

- Greening of surface transport by reduction of environmental and noise pollution through technological and socio-economic means
- Encouraging and increasing modal shift and decongesting transport corridors
- Ensuring sustainable and accessible urban mobility for all citizens
- Improving safety and security
- Strengthening competitiveness
- Support to the European global satellite navigation system (Galileo) and EGNOS

⇒ plus calls (!)



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