

Expectations of Research Co-operation for Transport

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IF
‘A Vision for a
European
Transportation System’
is

- **to create a mode independent transportation system then, Governments, Academia, and Industry ought to be working together under a Common Strategic Initiative**

Drivers

Transport industries and operators

*Must **meet conditions** of*

- Maintaining leadership in a stiff global competitive environment
- Developing and assimilating new knowledge and technologies enabling the achievement of the multi-modal transport system
 - Renewing, reviving and restructuring transport sectors
- Exploiting the potential of technologies to promote sustainable development

under **criteria** of

enormous challenges, insufficient level of resources, effort, commitment and technological maturity

Main Limitations of Current Planning Processes

- Need for enhancement of Consensus on European Transportation Strategy to guide congruent plans and systemic solutions from Research to Technology deployment for governments, industry and academia
- Need to encourage long-term outcome/“ambitious” goals to stimulate new ideas and promote innovation
- Short (10-year) planning horizon not sufficient for paradigm shift
- Predominance of modal-oriented transportation system (e.g., operations, programs, processes, investments and infrastructure)
- Extension of incentives for organizations to work together to identify and implement systemic solutions across the transport system.

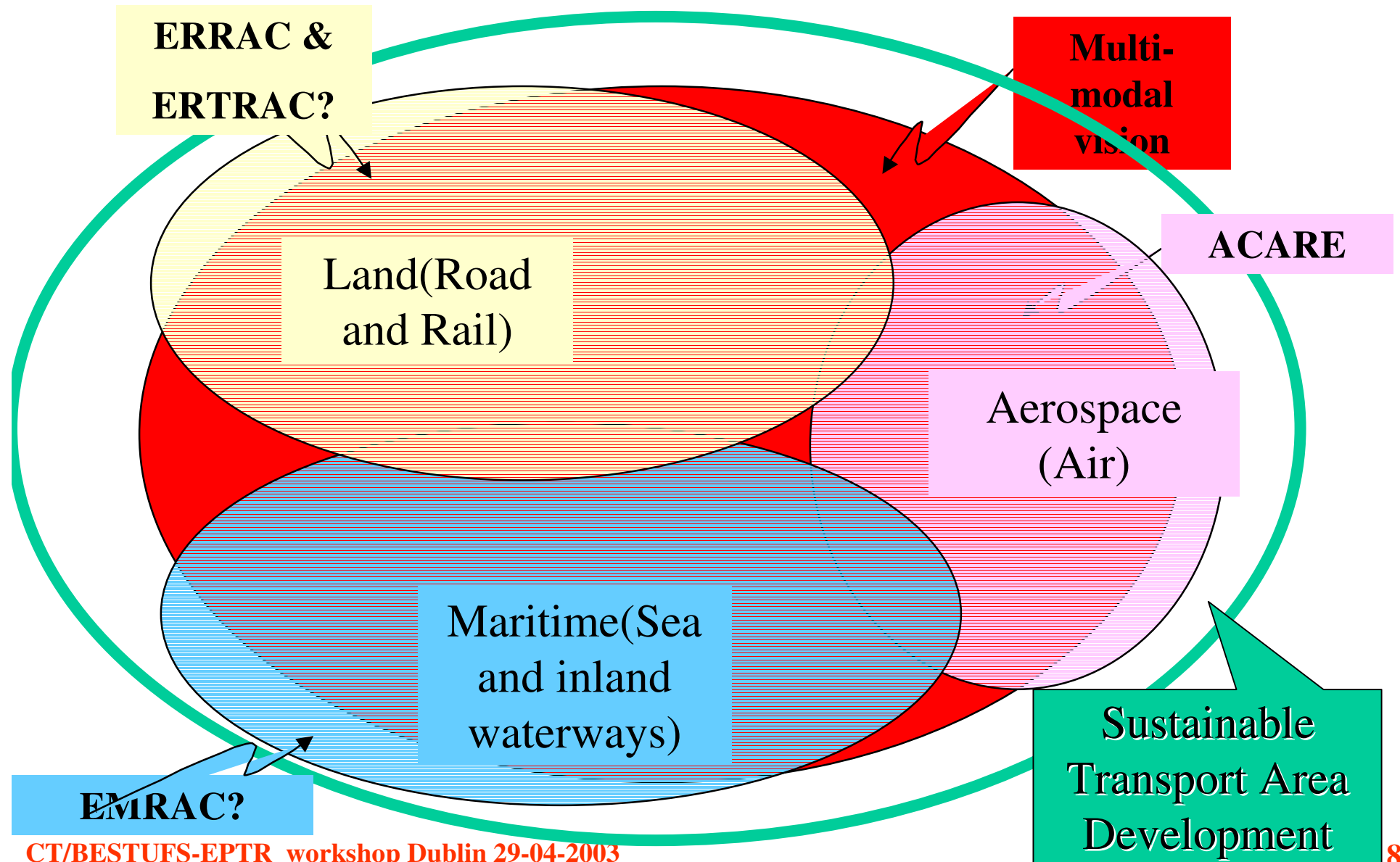
Co-ordination Approach

- Build on European, National and Regional transport Policies, Science and Technology strategic planning efforts
- Take long-term, systemic view of transportation challenges and opportunities
- Build consensus within transportation community for vision
 - *Role of Transportation (e.g., e-commerce, demographics)*
 - *Challenges (e.g., fatalities, congestion, emissions)*
 - *Goals (“ambitious”)*
 - *Opportunities (e.g. congruence between technology, innovative concepts, demo, piloting, commercialisation)*
- Work together to implement

Enabling environment

- Political and Legislative foresight (eg. white and green papers on transport and energy respectively, Lisbon (ERA), Barcelona (3%), Competitiveness Council (TP, OMC);
- RTD framework programmes (for FP6 Sustainable development, strengthening activities eg. ERA-NET)
- National initiatives
- Regional measures

Multi-modal Transport Vision



Expected outcome

- **Define Role of transportation in supporting future EU needs**
 - *economic*
 - *security*
 - *quality of life of its people*
- **Agreed Trends in transportation**
 - *What is the problem? - Where are we going?*
- **Achieve “Ambitious” goals**
- **Deploy Innovative technologies and concepts to address goals**
- **Supporting research, education and training requirements**
- **Synergistic Roles of partners (multi-stakeholder approach)**
 - *Governments + Industry + Academia*
- **Remove Barriers**
 - *Institutional - Legal and regulatory - Cultural - Political - Global*

The Planning Process

- **Strategy**
 - Define an integrated strategy for enhanced RTD co-operation
- **Planning, Programming and Budgeting**
 - Express integrated plans, deliverables and budgets to achieve goals
- **Implementation**
 - Combine (virtual) individual programmes and initiatives under the expressed strategy and plans
- **Evaluation** (for management and control)
 - Quality/Self Assessments
 - Program/Project Reviews
 - Technology/System Assessments
 - Peer/Independent/Expert Reviews

Some working principles

- **Maintain long-term, system-level perspective of needs & opportunities**
- **Focus on customer & stakeholder needs (e.g., goals)**
- **Establish meaningful “ambitious” performance goals & targets**
- **Develop innovation system**
 - “Cleaner, safer, accessible” applications through purposeful partnerships (private-public partnerships across the innovation chain)
 - World-class research
 - Human capital
- **Leverage R&D investments**
 - European
 - National
 - All sectors (*brown field/green field investments*)
- **Capitalise on international trends & market opportunities**
- **Foster efficient & effective program implementation**
- **Ensure peer review evaluation**
- **Measure impact of R&D on system performance**
- **Co-operate on already agreed areas of common interest**