



FP7 Theme Transport

Sustainable Surface Transport

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SenterNovem is een agentschap van



Ministerie van Economische Zaken



TransSMES



SEVENTH FRAMEWORK
PROGRAMME

Cooperation – Collaborative research

	<i>Thema</i>	<i>Budget FP7</i>
COOPERATION <i>(10 themes)</i>	Health	6050
	Biotechnology & Food	1935
	IST	9110
	NMP	3500
	Energy	2300
	Environment	1900
	Transport (inc. Aeronautics)	4180
	Socio-economic	610
	Space	1430
	Security	1350
Total		32365

Theme Transport in FP7

Budget, 4180 million Euros, to be divided among:

Collaborative research:

1. Aeronautics
2. Surface Transport (all modes)
3. Galileo
4. JTI Clean Sky
5. Single European Sky Air Traffic Management Research (SESAR)

Objective for Sustainable Surface Transport

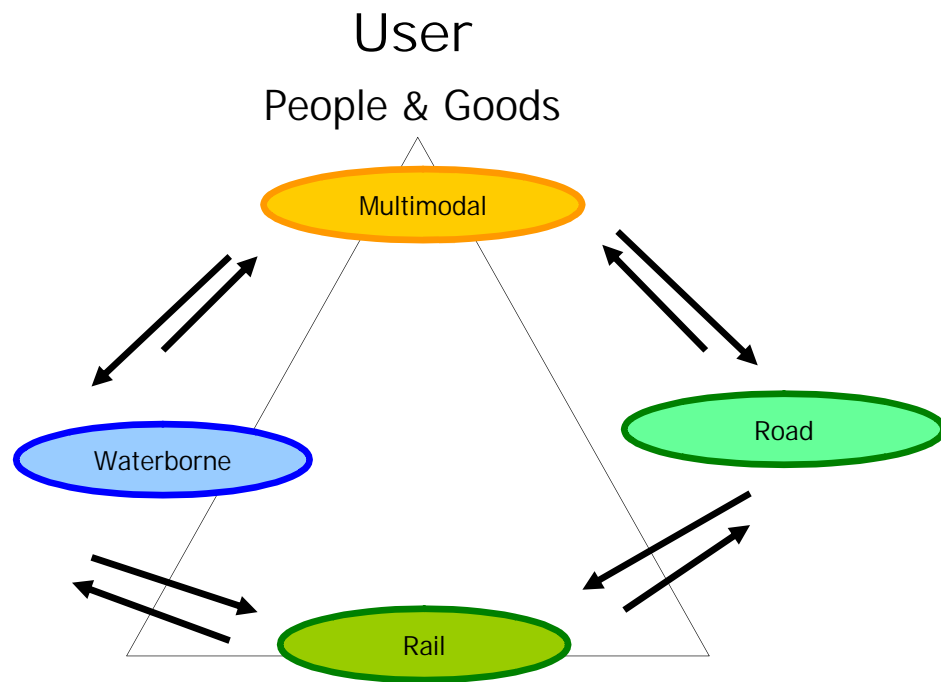
- Integrated **European Transport System**
- Build a Surface Transport **Identity**
- Develop **greener, smarter** and **safer** Surface Transport System (s)
 - Benefits for citizen and society
 - Respect the environment and natural resources
- Secure the **leading role** of EU transport **industry** in the global market

SST - Foundations

- Continuity
 - built on results (gaps, strengths and weaknesses), follow up of initiated activities, timing and maturity of topics
- Novelty
 - New research areas, new technologies, new activities
 - Broad scope and new approach, new partnerships
 - New emphasis: **System** and **Integration**
 - New “key words” and concepts
 - New emphasis on horizontal and cross-cutting issues
- Consultation
 - Technology Platforms, Advisory Group, Stakeholders

Scope

SST System



Vehicle/Vessel

Interactions,
Interfaces, Networks
and Services

Infrastructure

(Physical & Telematics)

Integration

Knowledge

Disciplines & Technologies,
Knowledge & Support to
Policy,
Standards & Regulations
All Stakeholders, New
Partnerships
Funding Resources
Logistics & Connectivity,
National & International TS

Policy

Technology

SST - Approach

- In line with EU challenges, industrial needs and policy objectives
 - Greening of surface transport
 - Encouraging modal shift (co-modality) and decongesting transport corridors
 - Ensuring sustainable urban mobility
 - Improving safety and security
 - Strengthening competitiveness
-
- Through the use of Funding schemes
 - Collaborative Projects (CP)
 - Coordination and Support Actions (CSA)
 - Networks of Excellence (NoE)

SST - Structure (1)

- Work Programme organised by **Activities**
 - 5 activities in line with the strategic objectives of SP ensure impact and facilitate visibility and understanding
 - 1 cross cutting activity in support of SST addressing global horizontal issues
- Activities are sub-divided in **Areas**
 - Research areas are broad domains of investigation, stable during the coming years, expected impacts are indicated
- Areas are addressed by **Topics**
 - Topics indication/description of proposals to be submitted in the call.
- Topics are either **Level 1** or **Level 2**
 - According to the degree of specification in the WP

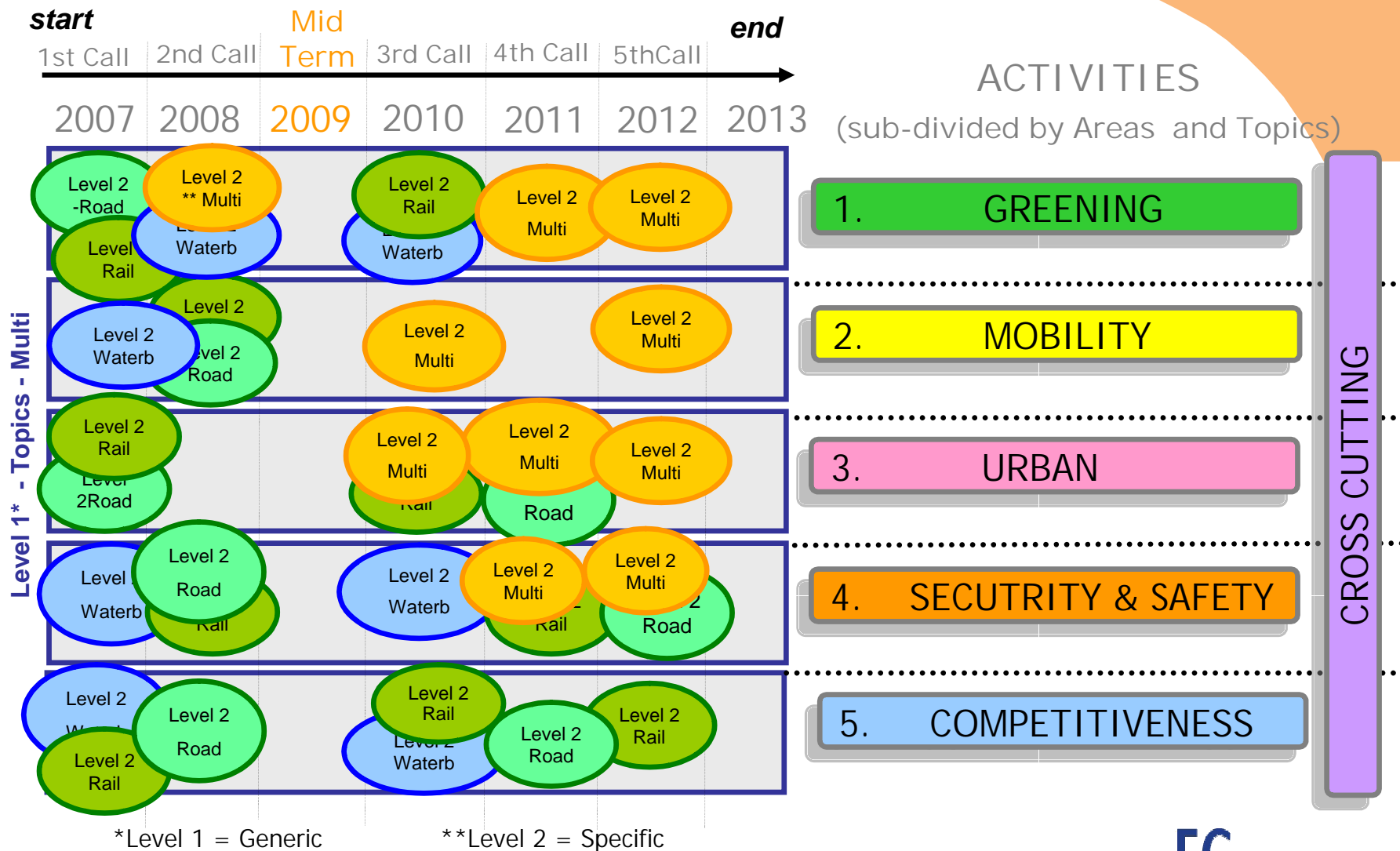
SST - Structure (2)

- TOPICS describe the work content
 - **Level 1 (generic):**
 - Foundation of the whole SST WP for 2007 and 2008
 - Broad in their formulation, problem oriented
 - Mainly common to all modes
 - CSA and small scale CP
 - Several proposals expected per topic
 - **Level 2 (specific):**
 - Mission oriented, specific approaches and outcomes
 - Call specific
 - Mostly specific to just one mode
 - All instruments but predominantly large scale CP
 - Normally just one proposal per topic

SST – Funding schemes Call 2007

- **Collaborative projects (CP)**
 - **Large** scale integrating projects (CP Large scale)
 - **EU contribution > 4 M€**
 - **Small or medium** scale focused research project (CP small medium scale)
 - **EC contribution < 4 M€**
- **Coordination and Support Action (CSA)**
 - Coordination (or networking) actions (CSA – Coordination)
 - Support actions (CSA - Support)

SST WP(2007-2013) - Structure



SST - Call 2007

- Call open from 22-12-2006 to 3-5-2007
 - CIVITAS open until 28-6-2007!
- SST-RTD 2007 call: 190 M€
 - 18 Level 1 topics, 16 Level 2 topics
- SST-TREN 2007 call: 60 M€
 - 9 Level 2 topics

Strategic objectives 2007 (1)

- Climate changes, energy supply, pollution and biodiversity
 - Maximisation energy conversion and introduction new sources of energy
 - Clean process (production & operation levels incl. recycling)
- Innovative design tools and methodologies
 - Design for safety & security,
 - Competitiveness focus on products & components (SME)
- Holistic approach to safety and security
 - Save lives & protect the environment
 - Emphasis on human element and infrastructures

Strategic objectives 2007 (2)

- Public transport and accessibility for all
- Freight , logistics and co-modality
- RTD Impacts:
 - Maritime policy,
 - Public awareness,
 - New jobs & skills, youth
- Exploring technology synergies between modes

Surface Transport (1)

Activity 1: The greening of surface transport

Area 1.1: The greening of products and operations

- Use of bio-fuels and alternative hydrocarbon fuels (level 1 CP, CSA)
- Vehicle and infrastructure technologies for optimal use of energy (level 1 CP, CSA))
- Integrating natural gas power-trains (level 2 CP)
- Future long distance freight transport (level 2 CP)
- Clean and efficient marine diesel powertrains (level 2 CP)

Area 1.2: Environmentally friendly industrial processes

- Greening of transport-specific industrial processes (level 1 CP, CSA)
- End of life strategies (level 1 CP, CSA)
- ECO-Ship (level 2 CP)

Surface Transport (2)

Activity 2: Encouraging modal shift and decongesting transport corridors

Area 2.1: Logistics and intermodal transport

- Vehicle and infrastructure concepts for intermodal freight transport (level 1 CP, CSA)
- Benchmarking logistics (level 2 CP)
- Smart supply chain management in intermodal door-to-door container transport (level 2 CP)
- Preparatory action on innovative transport networks (level 2 CSA)
- Future long distance freight transport (level 2 CP)

Area 2.2: Maritime and inland waterways transport

- Promotion of inland waterway transport (CSA)
- Advanced RIS-based transport management solutions for IWT (CP)
- Promotion of SSS and intermodality (CP/CSA)
- Maritime and logistics co-ordination platform (CP/CSA)

Area 2.3: Enhancement of the knowledge base of the rail sector

Area 2.4: Quality of rail services

Area 2.5: Interoperability and safety

- Interoperable rolling stock (level 1 CP, CSA)
- Delivering ERTMS compliant interlocking systems (level 2 CP)

Surface Transport (3)

Activity 3: Ensuring sustainable urban mobility

Area 3.1: New transport and mobility concepts

- New mobility concepts ensuring accessibility for all (level 1 CSA)
- Intelligent mobility systems and multi-modal interfaces for transport of passengers (level 1 CSA)

Area 3.2: High quality public transport

- European Bus Systems of the future (level 2 CP)

Area 3.3: Demand management

Area 3.4 Innovative strategies for clean urban transport

- CIVITAS-Plus
Specific information: <http://www.civitas-initiative.org>

Surface Transport (4)

Activity 4: Improving safety and security

Area 4.1: Safety and security for the surface transport system

- Safety and security by design (level 1 CP, CSA)
- Human physical and behavioural components (level 1 CP, CSA)
- Crisis management and rescue operations (level 1 CP, CSA)
- Integrated system solutions for safety (level 1 CP, CSA)
- Integrated safety and security for urban rail (level 2 CP)
- Intelligent road restraint system (level 2 CP)

Surface Transport (5)

Activity 5: Strengthening competitiveness

Area 5.1: Competitive industrial processes

- Competitive product development (level 1 CP, CSA)
- Cost effective manufacturing and maintenance (level 1 CP, CSA)
- New production and organisation models (level 1 CP, CSA)

Area 5.2: Competitive surface transport products and services

- Meeting customers expectations for rail travel (level 1 CP)
- Dynamic stability of light weight trains (level 2 CP)

Galileo

Activities (a.o.): Exploiting the full potential of European Global Satellite navigation system

- Promote the use of the Galileo services
- Applications/services: Mass market, professional, scientific, etcetera...
- Implemented by Galileo Supervisory Agency (GSA)
 - First call published June 2007
- Galileo Joint Undertaking
www.galileoju.com
- Galileo Services
www.galileo-services.org

ICT – Information and Communication Technologies

Area: ICT for Intelligent Vehicles and Mobility Services

Research topics:

- Intelligent vehicle systems (accident prevention, hazard detection, advanced driving assistance systems, etc.)
- Mobility services for people
- Mobility services for goods

Area: ICT for Cooperative Systems

Research topics:

- Cooperative systems (vehicle-to-vehicle, vehicle-to-infrastructure)
- Large scale field operational tests



Thank you.

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