



THEME 7 : Transport

SUB-THEME 7.2

Sustainable Surface Transport (SST)

European Commission
Research DG
H2 Surface Transport
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Sustainable Surface Transport



Rail



Road



Water

for PEOPLE and GOODS

...a guided tour through Work Programme 2007

contribute to the global objective

Integrated European Transport System

- Develop **greener, smarter** and **safer** Surface Transport System (s)
 - ◆ Benefit for citizens and society
 - ◆ Respect the environment and natural resources
- Secure the **leading role** of EU transport **industry** in the global market



FOUNDATIONS

● CONTINUITY

- built on FPs results and follow up of initiated activities
- Industrial relevance: input from Technology Platforms

● NOVELTY

- New research areas, technologies and activities
- Broad scope and new **Approach**, new partnerships
- New emphasis: **System** and **Integration**
- New emphasis on global and cross-cutting issues



● Surface Transport System (s)

→ 3 modes

→ Vehicle/Vessel

→ Infrastructure

→ Users



By exploiting interactions and interfaces, developing synergies between modes, considering logistics and connectivity, Transport Networks & Transport Services



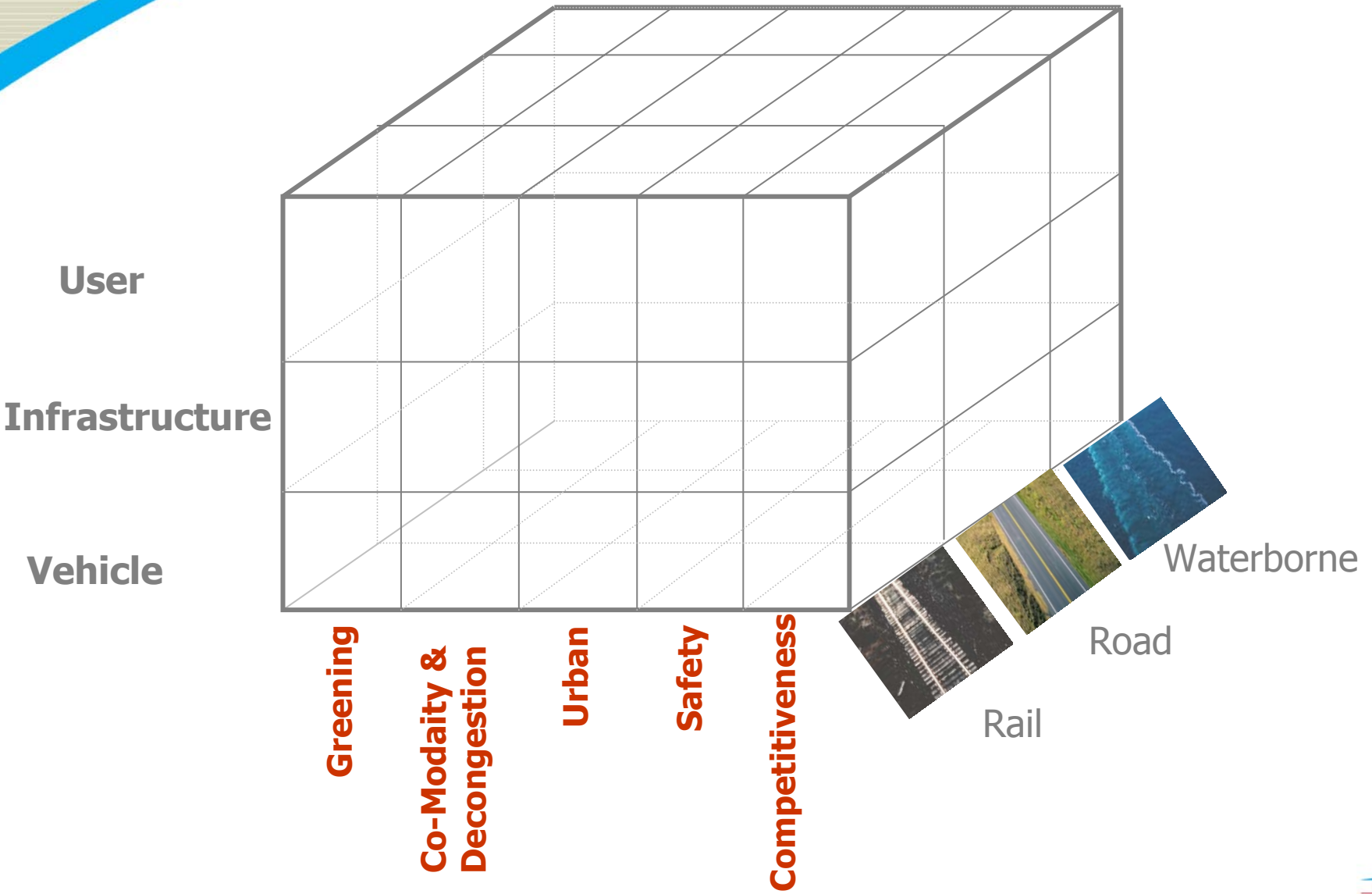
● **Research, Innovation and Policy**

- **Knowledge & Support to Policy, Standards & Regulations**
- **Disciplines, technologies and skills**
- **Stakeholders (new Partnerships)**
- **Funding Resources**
- **Broad type of activities**
 - Basic and applied research, knowledge transfer and innovation
 - Large scale multi-disciplinary research & demonstration
 - Activities for structuring research in Europe
 - Socio-economic research
 - Activities in support of SST implementation
 - Activities in support to new EU policies relevant to SST

- in line with EU challenges, industrial needs and policy objectives:
 - **Greening** of surface transport
 - Encouraging **co-modality** and **decongesting** transport corridors
 - Ensuring sustainable **urban mobility**
 - Improving **safety and security**
 - Strengthening **competitiveness**
- embracing society needs and social change

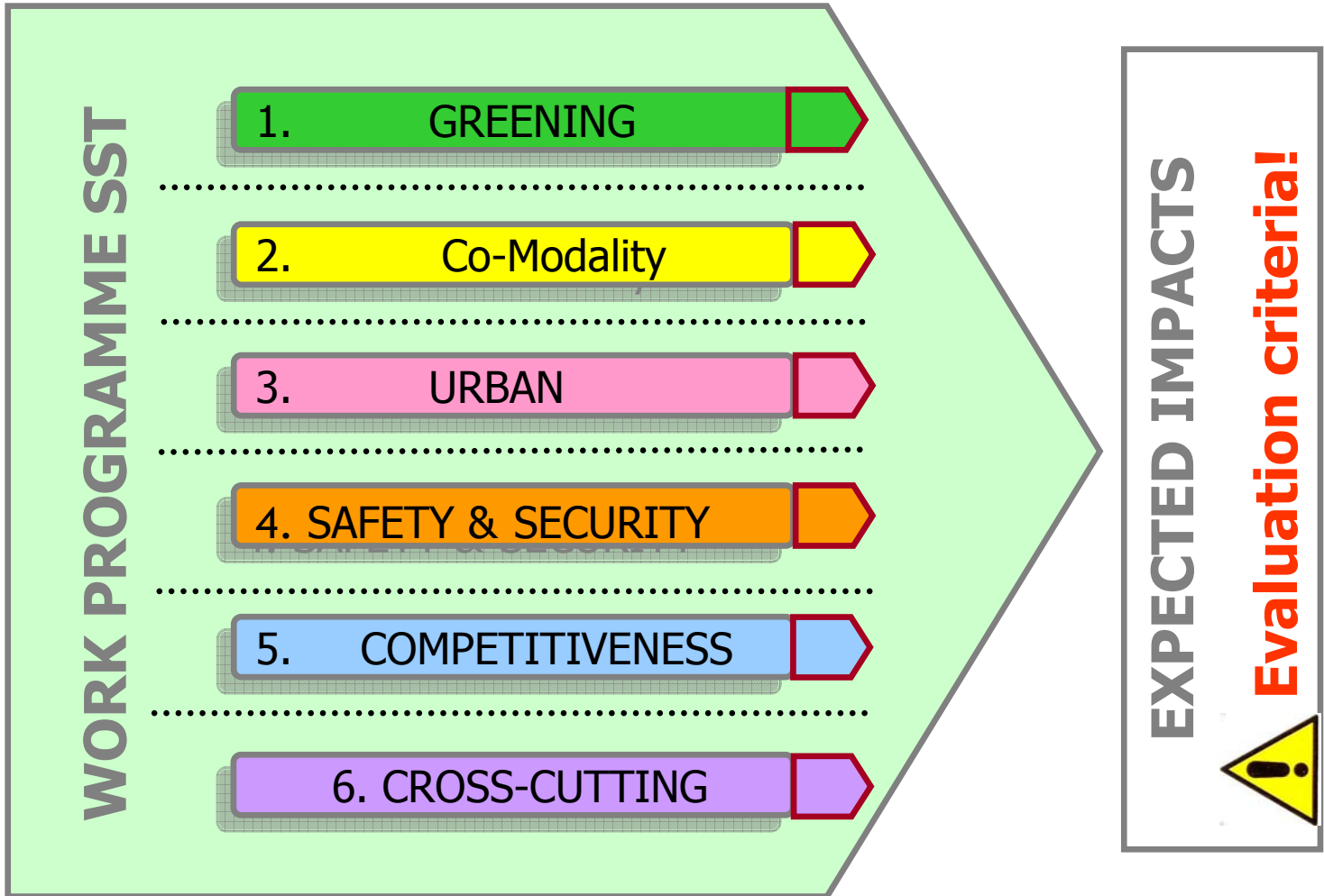


INTEGRATED SYSTEM APPROACH





SST Work Programme STRUCTURE



Activities are sub-divided in Areas and Topics

TERMINOLOGY

- **Work Programme organised by ACTIVITIES**
 - 5 activities in line with the strategic objectives, to ensure impact and facilitate visibility and understanding
 - cross cutting activities in support of SST
- **Activities are sub-divided in AREAS**
 - Research areas are broad domains of investigation, stable during the coming years, and whose expected impacts are indicated
- **Areas are addressed by TOPICS**
 - Identification of research contents to be addressed by proposals to be submitted in the call.
- **Topics are either Level 1 or Level 2**
 - According to the degree of specification in the WP

- **TOPICS describe the work content to be addressed by proposals**

→ **Level 1 (generic):**

- Define broad fields of activity
- Normally common to all modes
- Encourage synergies between modes
- Implemented with some degree of flexibility
- Not all subjects need to be addressed

→ **Level 2 (specific)**

- Mission oriented
- Explicit in their formulation
- Mostly specific to one mode
- All aspects must be addressed



Levels and budget are not univocally correlated!

SST Work Programme IMPLEMENTATION

SST Work Programme 2007 will be implemented through 3 calls

- **FP7- SUSTAINABLE SURFACE TRANSPORT (SST) -2007-RTD-1**
→ *budget 2007= 153,5 M€*
- FP7- SUSTAINABLE SURFACE TRANSPORT (SST)-2007-TREN-1
→ *budget 2007= 60 M€*
- FP7- ERANET-2007-RTD (for SST)
→ *budget 2007= 3 M€*

FUNDING SCHEMES for call SST-2007-RTD-1

● Collaborative Projects CP

→ **Large** scale integrating projects (CP - large scale)

EC Contribution > 4 M€

→ **Small** or medium-scale focussed 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)



Work Programme 2007

ACTIVITY 1: Greening

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call
7.2.1	GREENING OF SURFACE TRANSPORT					
7.2.1.1	Greening of Products & Operations					
1.1.1.	level 1	Promoting the use of bio-fuels and alternative hydrocarbon fuels	CP-small	CSA-coord.	multi	SST-2007-RTD-1
1.1.2.	level 1	Vehicle/vessel and infrastructure technologies for optimal use energy	CP-small	CSA-coord.	multi	SST-2007-RTD-1
1.1.3.	level 2	Integrating natural gas power trains	CP-large		road	SST-2007-RTD-1
1.1.4.	level 2	Electric ship technology	CP-large		waterb	SST-2007-RTD-1
1.1.5.	level 2	Clean and energy efficiency maritime diesel powertrains	CP-large		waterb	SST-2007-RTD-1
7.2.1.2	Environmental Friendly Industrial processes					
1.2.1.	level 1	Greening transport-specific industrial processes	CP-small	CSA-coord.	multi	SST-2007-RTD-1
1.2.2.	level 1	End of life strategies for vehicle/vessels and infrastructure	CP-small	CSA-coord.	multi	SST-2007-RTD-1
1.2.3.	level 2	ECO-SHIP	CP-large		waterb	SST-2007-RTD-1
7.2.1.3	Socio-economic issues					



ACTIVITY 2: Modal Shift & Decongestion

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call	
7.2.2	ENCOURAGING MODAL SHIFT AND DECONGESTING TRANSPORT CORRIDORS						
7.2.2.1	Logistics and Intermodal Transport						
2.1.1.	level 1	Vehicle/Vessel and infrastructure Concepts for intermodal freight transport		CP-small	CSA-coord.	multi	SST-2007-RTD-1
2.1.2.	level 2	Benchmarking logistics		CP	CSA-coord.	multi	SST-2007-TREN-1
2.1.3.	level 2	Smart supply chain management in intermodal door-to-door container		CP-large		multi	SST-2007-RTD-1
2.1.4.	level 2	Preparatory action on Innovative Transport Networks			CSA-support	multi	SST-2007-TREN-1
2.1.5	level 2	Future long distance freight road transport		CP-large		road	SST-2007-RTD-1
7.2.2.2	Maritime and inland waterways transport						
2.2.1.	level 2	Promotion of inland waterway transport			CSA-coord.	water	SST-2007-TREN-1
2.2.2.	level 2	Advanced RIS-based transport management solutions for the IWT sector		CP		water	SST-2007-TREN-1
2.2.3.	level 2	Promotion of short sea shipping and intermodality		CP	CSA-coord.	water	SST-2007-TREN-1
2.2.4	level 2	Maritime Logistics co-ordination platform		CP	CSA-coord.	water	SST-2007-TREN-1
7.2.2.3	Enhance of the knowledge base of the rail sector						
7.2.2.4	Quality of Rail Services						
7.2.2.5	Interoperability and safety						
2.5.1.	level 1	Interoperable rolling stock		CP-small	CSA-coord.	rail	SST-2007-RTD-1
2.5.2.	level2	Delivering ERTMS-compliant interlocking systems		CP-large		rail	SST-2007-RTD-1
7.2.2.6	Traffic and information management						
7.2.2.7	Policy Support						



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ACTIVITY 3: Urban Mobility

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call	
7.2.3	ENSURING SUSTAINABLE URBAN MOBILITY						
7.2.3.1	New transport and mobility concepts						
3.1.1.	level 1		New mobility concepts for passengers ensuring accessibility for all		CSA-coord.	multi	SST-2007-RTD-1
3.1.2.	level 1		Intelligent mobility systems and multi-modal interfaces for transport of passengers		CSA-coord.	multi	SST-2007-RTD-1
7.2.3.2	High quality public transport						
3.2.1.	level 2		European Bus Systems of the Future	CP-large		road	SST-2007-RTD-1
7.2.3.3	Demand management						
7.2.3.4	Innovative strategies for clean urban transport (To be also covered by Energy.2007.8.6)						
3.4.1.	level 2		Testing innovative strategies for clean urban transport (see also Energy.2007.8.5.1)	CP-large		multi	SST-2007-TREN-1
3.4.2.	level 2		Support action for evaluation and monitoring (see also Energy.2007.6.1)		CSA-support	multi	SST-2007-TREN-1
3.4.3.	level 2		Support action for coordination and dissemination (see also Energy.2007.8.7.2)		CSA-support	multi	SST-2007-TREN-1
7.2.3.5	Policy Support						



Work Programme 2007

ACTIVITY 4: Safety & Security

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call	
7.2.4	IMPROVING SAFETY AND SECURITY						
7.2.4.1	Integrated Safety and Security for surface transport systems						
4.1.1.	level 1		Safety and security by design	CP-small	CSA-coord.	multi	SST-2007-RTD-1
4.1.2.	level 1		Human physical and behavioural components	CP-small	CSA-coord.	multi	SST-2007-RTD-1
4.1.3.	level 1		Crisis management and rescue operations	CP-small	CSA-coord.	multi	SST-2007-RTD-1
4.1.4.	level 1		Integral system solutions for safety	CP-large	CSA-coord.	multi	SST-2007-RTD-1
4.1.5	level 2		Integrated safety and security for urban rail	CP-small		rail	SST-2007-RTD-1
4.1.6	level 2		Intelligent Road Restraint Systems (RSS)	CP-small		road	SST-2007-RTD-1
4.1.7	level 2		Socio-economic research for the deployment of safety systems	CP-small		road	SST-2007-RTD-1
7.2.4.2	Policy Support						



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ACTIVITY 5: Competitiveness

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call	
7.2.5 STRENGTHENING COMPETITIVENESS							
7.2.5.1 Competitive Industrial Process (w/SMEs)							
5.1.1.	level 1		Competitive product development	CP-small	CSA-coord.	multi	SST-2007-RTD-1
5.1.2.	level 1		Cost effective manufacturing and maintenance	CP-small	CSA-coord.	multi	SST-2007-RTD-1
5.1.3.	level 1		New production organisations and models	CP-small	CSA-coord.	multi	SST-2007-RTD-1
7.2.5.2 Competitive Surface Transport Products and Services (w/SMEs)							
5.2.1.	level 2		Meeting Customers' Expectations for Rail Travel	CP-small		rail	SST-2007-RTD-1
5.2.2.	level 2		Dynamic Stability of Lightweight Trains	CP-large		rail	SST-2007-RTD-1
7.2.5.3 Policy Support							



Work Programme 2007

Cross-Cutting Activities to SST

	Activity	Area	TOPIC	Funding Scheme	Transport Mode	Call	
7.2.6 CROSS CUTTING - SUPPORT IMPLEMENTATION							
6.1.	level 1		Stimulating participation of small and medium size enterprises (SME)		CSA-support	multi	SST-2007-RTD-1
6.2.	level 1		Stimulating Research with International Cooperation partner Countries		CSA-support	multi	SST-2007-RTD-1
6.3.	level 1		Raising Awareness of potential jobs opportunities in the Surface Transport sectors		CSA-support	multi	SST-2007-RTD-1
6.4.	level 2		Stimulating Radical Technologic Changes		CSA-support	multi	SST-2007-RTD-1
6.5.	level 2		The "Future maritime policy" and surface transport research		CSA-support	waterb	SST-2007-RTD-1
6.6.	level 2		Stimulating International Cooperation with neighbouring regions and developing countries on passengers public transport		CSA-support	rail, road	SST-2007-RTD-1
6.7.	level 2		ERA-NET Transport II		CSA-coord.	multi	ERANET-2007-RTD

- International Cooperation
- Encouraging EU-12 and Candidate Countries
- Encouraging SMEs and industrial clusters
- Coping with Science and Society issues
- Stimulating breakthrough and emerging Technologies
- Dissemination and use of EU R&D results



Surface Transport in FP7 Synergies with other THEMES

Cooperation

3. ICT:

4. NMP:

5. Energy:

9. Security:

- Enabling technologies for Security

-Generic equipment and Systems for transport Applications

9. Security

10. Space

Ideas

Investigator-driven "research"

People

Human potential: Marie Curie Actions

Capacities

- Research Infrastructures
- Research for the benefit of SMEs
- Regions for knowledge
- Research potential
- Development of policies
- Science and society
- INCO





EUROPEAN
COMMISSION

community research

SST-2007-RTD

Surface Transport Team



FP7-SST-RTD
get connected with
***Surface Transport !!**

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Further information

- **CORDIS:**

<http://cordis.europa.eu/fp7/dc/index.cfm>

- **Transport web site:**

http://ec.europa.eu/research/transport/index_en.html

- **Helpdesk:**

http://ec.europa.eu/research/new_hp/index.cfm?pg=enquiries



Thank you for your attention !