



EUROPEAN
COMMISSION

Community research

Sustainable Surface Transport (SST) Calls Content

FP7-SST-2007-RTD-1

FP7-SST-2007-TREN-1

FP7 Info Day - Madrid
16/02/2007





Calls Specifications

FP7-SST-2007-RTD-1 FP7-SST-2007-TREN-1

- Date of publication: 22 December 2006
- Deadline: 3 May 2007
- Total indicative budget RTD-1: 153.5 M€
- Total indicative budget TREN-2: 60M€
- Funding schemes :
 - ➔ **CP: Collaborative Projects - Call RTD-1**
 - ◆ *Small scale < 4M€ EC funding*
 - ◆ *Large scale > 4M€ EC funding*
 - ➔ **CSA: Coordination Support Action**
 - ◆ *Coordinating: 3 partners min.*
 - ◆ *Supporting: 1 partner min.*



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

- **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 aspects 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 correlated!



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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)



TOPICS Called Overview

- Call SST-2007- **RTD -1**
indicative budget : 153.5 M€

- Activity 7.2.1 **GREENING**

4 topics *level 1* ; 4 topics *level 2*

- Activity 7.2.2 **MODAL - DECONGESTION**

2 topics *level 1* ; 3 topics *level 2*

- Activity 7.2.3 **MOBILITY - URBAN**

2 topics *level 1* ; 1 topics *level 2*

- Activity 7.2.4 **SAFETY & SECURITY**

4 topics *level 1* ; 3 topics *level 2*

- Activity 7.2.5 **COMPETITIVENESS**

3 topics *level 1* ; 2 topics *level 2*

- 7.2.6 **CROSS-CUTTING Activities in Sub-theme SST**

3 topics *level 1* ; 3 topics *level 2*



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TOPICS Called Overview

- Call SST-2007- **TREN** -1
indicative budget : 60 M€
 - ➔ Activity 7.2.2 MODAL- DECONGESTION
6 topics *level 2*
 - ➔ Activity 7.2.3 MOBILITY – URBAN
3 topics *level 2*



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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 1: Greening

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.1.1.1.

Promoting the use of bio-fuels and alternative hydrocarbon fuels

- ➔ Objective: To support the progressive introduction of bio-fuels and alternative hydrocarbon fuels with increased efficiency of their use
- ➔ Coverage:
 - ◆ *Adaptation and optimisation of existing engines*
 - ◆ *New power train concepts*
 - ◆ *Safe and clean fuel delivery*
- ➔ Transport modes: all surface transport modes
- ➔ Cooperation with Brazil, USA and India suggested
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 1: Greening

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.1.1.2.

Vehicle/vessel and infrastructure technologies for optimal use of energy

- ➔ Objective: Vehicle/vessels and infrastructure technologies to further reduce energy consumption.
- ➔ Coverage:
 - ◆ *Low mass, low friction and low rolling resistance material*
 - ◆ *Drag reduction*
 - ◆ *Additional non-polluting sources of energy*
 - ◆ *Minimal wash for high speed vessel*
 - ◆ *Optimised overall energy consumption*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 1: Greening

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.1.1.3 Integrating natural gas power-trains

- ➔ Objective: Demonstrate the full potential of natural gas in light duty engines (10% efficiency increase and better than EURO 5).
- ➔ Coverage:
 - ◆ *Build a full demonstration platform*
 - ◆ *Integrate specific after-treatment systems*
 - ◆ *Advanced storage systems*
 - ◆ *Vehicle architectures*
 - ◆ *Multi-grade fuels and fuel flexibility*
- ➔ Transport mode: Road
- ➔ Funding schemes: CP (large scale)



ACTIVITY 1: Greening

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.1.1.4 Electric ship technology

- ➔ Objective: Enlarge the economically viable range of vessel application.
- ➔ Coverage:
 - ◆ *New generation of power systems*
 - ◆ *New electric propulsion concepts*
 - ◆ *Electrical actuation of major equipments*
 - ◆ *Clean shore power design*
- ➔ Transport mode: Waterborne
- ➔ Funding schemes: CP (large scale)



ACTIVITY 1: Greening

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.1.1.5

Clean and energy efficient marine diesel power trains

- ➔ Objective: Significantly reduce pollutant emissions and increase overall efficiency of marine diesel propulsion systems.
- ➔ Coverage:
 - ◆ *Advanced combustion processes*
 - ◆ *Numerical models and concepts*
 - ◆ *Intelligent engine controls and flexible power-trains*
 - ◆ *Advanced after-treatment systems*
 - ◆ *Innovative components and auxiliary systems*
- ➔ Transport mode: Waterborne
- ➔ Funding schemes: CP (large scale)

ACTIVITY 1: Greening

SST-2007-RTD-1

- **TOPIC – Level 1 - SST.2007.1.2.1**

The greening of transport-specific industrial processes

- ➔ Objective: Develop transport specific and innovative industrial processes coupling environmental friendliness with competitiveness and working conditions.
- ➔ Coverage:
 - ◆ *Manufacturing*
 - ◆ *Assembly*
 - ◆ *Construction*
 - ◆ *Inspection, maintenance and repair*
- ➔ Special emphasis: cleanliness and energy efficiency
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 1: Greening

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.1.2.2

End of life strategies for vehicles/vessels and infrastructures

- ➔ Objectives: Develop new methods and processes for vehicle/vessels and infrastructure end of life strategy.
- ➔ Coverage:
 - ◆ *Clean and safe dismantling*
 - ◆ *Clean and safe disposal,*
 - ◆ *Cost effective and clean recycling, conversion, retrofitting and re-use*
 - ◆ *End of life strategies*
- ➔ Special emphasis: minimisation of human exposure to harmful substances
- ➔ Cooperation suggested with China, India, Brazil, Russia & South-Africa in recycling, other Asian countries in ship dismantling
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 1: Greening

SST-2007-RTD-1

- **TOPIC – Level 2 - SST.2007.1.2.3**
ECO-SHIP

- ➔ Objective: Protect marine eco-systems by minimising and treating waste and water residuals.
- ➔ Coverage:
 - ◆ *Innovative vessels design*
 - ◆ *Cost effective ballast water treatment*
 - ◆ *Holistic approach to treat all waste sources*
 - ◆ *Waste recovery and re-use within vessels operation*
 - ◆ *Solutions to contamination issues deriving from anti-fouling agents*
- ➔ Transport mode: Waterborne
- ➔ Funding schemes: CP (large scale)



Work Programme 2007

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						



ACTIVITY 2: Modal shift and Decongestion

SST-2007-RTD-1

● TOPIC – Level 1- SST.2007 2.1.1

Vehicle/vessels and infrastructure concepts for intermodal freight transport

- ➔ Objective: Innovative vehicle/vessels and infrastructure concepts for operation in multimodal transportation chains.
- ➔ Scope:
 - ◆ *Reliability, flexibility and speed of operations*
 - ◆ *Vehicles/vessels speed and maximum carrying capacity*
 - ◆ *Vehicle/vessels manoeuvrability*
 - ◆ *Loading/unloading operations not included*
- ➔ Cooperation suggested with Russia for heavy rail freight & Baltic sea shipping, North Africa for Mediterranean traffics
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 2: Modal shift and Decongestion

SST-2007-RTD-1

- **TOPIC – Level 2 - SST.2007.2.1.3**

Smart supply chain management in intermodal door-to-door container transport

- ➔ Objective: Reduction of logistic cost and maximisation of efficiency, safety and security of the whole supply chain.
- ➔ Coverage:
 - ◆ *Information and multi-sensor systems for container tracing and tracking*
 - ◆ *Communication systems for business and authorities*
 - ◆ *High capacity container transport flows*
- ➔ Special emphasis: Integration of information technologies, logistics and inspection including customs procedures.
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (large scale)



ACTIVITY 2: Modal shift and Decongestion

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.2.1.5

Future long-distance freight road transport

→ Objective: New integrated transport solution for road transportation of goods.

→ Coverage:

- ◆ *Modularisation of vehicle architectures*
- ◆ *Optimal use of energy*
- ◆ *Optimal route planning (use of GNSS)*
- ◆ *Improving drivers capabilities*

→ Special considerations:

- ◆ *Links with rail and waterborne transport*
- ◆ *Pan-national demonstrations*
- ◆ *Support to common standards*

→ Transport mode: Road

→ Funding schemes: CP (large scale)



ACTIVITY 2: Modal shift and Decongestion

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.2.5.1 Interoperable rolling stock

- ➔ Objective: Innovative train concepts for interoperability and cross-operation.
- ➔ Coverage:
 - ◆ *Advanced mechatronic systems*
 - ◆ *Information and communication systems*
 - ◆ *Technical Specifications for Interoperability (TSI's)*
- ➔ Cooperation with Russia for interoperability between different train gauges
- ➔ Transport mode: Rail
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 2: Modal shift and Decongestion

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.2.5.2

Delivering ERTMS-compliant Interlocking Systems

- ➔ Objective: Specification and hardware for a new generation of interlocking systems facilitating the deployment of ERTMS.
- ➔ Coverage:
 - ◆ *Definition of a common kernel of functionalities allocating them to sub-systems.*
 - ◆ *Standardisation of interfaces based on cost/benefit analysis*
 - ◆ *Safety case procedures to facilitate cross-acceptance*
- ➔ Special emphasis: Harmonisation of functional, operational, performance and technical requirements in signalling.
- ➔ Transport mode: Rail
- ➔ Funding schemes: CP (large scale)



Work Programme 2007

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						



ACTIVITY 3: Urban mobility

SST-2007-RTD-1

- **TOPIC – Level 1 - SST.2007.3.1.1**

New mobility concepts for passengers ensuring accessibility for all

- ➔ Objective: New mobility concepts aiming at a more efficient organisation of the mobility in cities
- ➔ Coverage:
 - ◆ *New guided and non-guided vehicle concepts*
 - ◆ *More efficient use of vehicles and infrastructures*
 - ◆ *Dedicated infrastructure for motorised and non-motorised vehicles*
- ➔ Special emphasis: accessibility for all, elderly and disabled
- ➔ Cooperation suggested with Industrialised countries for accessibility problems
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CSA (coordinating)



ACTIVITY 3: Urban mobility

SST-2007-RTD-1

- **TOPIC – Level 1 - SST.2007.3.1.2**

Intelligent mobility systems and multi-modal interfaces for transport of passengers

- ➔ Objective: Intelligent mobility systems and optimal multi-modal passenger trips
- ➔ Coverage:
 - ◆ *Data collection techniques*
 - ◆ *Traffic management*
 - ◆ *Route optimisation and traffic planning*
 - ◆ *Safe, secure and efficient multi-modal interfaces*
 - ◆ *Travel information systems*
- ➔ Special emphasis: Trips combining different transport modes.
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CSA (coordinating)



ACTIVITY 3: Urban mobility

SST-2007-RTD-1

● TOPIC – Level 2 - S.S.T.2007.3.2.1 European Bus System of the Future

- ➔ Objective: Increase the quality of public passenger transport while improving accessibility and intermodal integration
- ➔ Coverage:
 - ◆ *Design of a new generation bus system*
 - ◆ *Maximisation of energy conversion*
 - ◆ *Methods and systems for more efficient operations*
 - ◆ *Efficient ground-vehicle passengers transfers*
- ➔ Special emphasis:
 - ◆ *Components and sub-systems modularity including open architectures and interfaces*
 - ◆ *Accessibility to all*
- ➔ Transport mode: Road
- ➔ Funding schemes: CP (large scale)



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					



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

- **TOPIC – Level 1 - SST.2007.4.1.1**

Safety and security by design

→ Objective: Design of transport systems with intrinsic safety & security

→ Coverage:

- ◆ *Modelling, simulation, risk based design, next generation of crash dummies, virtual testing*
- ◆ *Innovative design of vehicles and infrastructures; their mutual impact ensuring in safety and security*
- ◆ *Mechatronic systems*
- ◆ *Advanced secondary safety components*
- ◆ *New vehicle design concepts and Structural integrity and crashworthiness*
- ◆ *Compatibility and conspicuity*
- ◆ *Tracing and tracking of ITUs*

→ Cooperation with India, USA and Japan suggested for modelling and simulation

→ Transport modes: all surface transport modes

→ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.4.1.2

Human physical and behavioural components

- ➔ Objective: Integration of human factors as components of the safety system
- ➔ Coverage:
 - ◆ *Biomechanics and numerical models with special attention to diversities (age, gender, disabilities)*
 - ◆ *Interactions between innovative technologies and the users – cognitive ergonomics*
 - ◆ *Computer-based training systems for drivers, riders, pilots*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.4.1.3

Crisis management and rescue operations

- ➔ Objective: Fast and safe crisis management and rescue operations
- ➔ Coverage:
 - ◆ *Systems and tools to assist emergency services*
 - ◆ *Autonomous and remotely controlled intervention systems*
 - ◆ *Operational procedures for notification, rescue and resumption of normal operations*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.4.1.4 Integral system solutions for safety

- ➔ Objectives: Full integration of all transport system components for increased safety.
- ➔ Coverage:
 - ◆ *Reliable and fault tolerant safety solutions, integrating aspects of human behaviour, preventive, mitigating and rescue technologies in an holistic approach considering vehicles, infrastructures and users*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (large scale)
CSA (coordinating)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.4.1.5

Integrated safety and security for urban rail

- ➔ Objective: common foundation for a control/command system for urban rail transport and common approval process at European level as regards safety and security.
- ➔ Coverage:
 - ◆ *Hazards analysis*
 - ◆ *Definition of safety Integrity Level (SIL) and Tolerable Hazard Rate (THR) value*
 - ◆ *Identification of risk mitigation mechanisms*
 - ◆ *Safety case model for urban rail transport*
 - ◆ *Mapping of security plans*
- ➔ Transport mode: rail
- ➔ Funding schemes: CP (small/medium scale)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.4.1.6 Intelligent Road Restraint System (RRS)

- ➔ Objective: Integration of the roadside restraint equipment in the road safety systems.
- ➔ Coverage:
 - ◆ *Innovative RRS based on novel design and/or materials and respectful of vulnerable users*
 - ◆ *Development of sensors and actuators for increased RRS safety performance*
 - ◆ *Standardisation of RRSs design including computer modelling*
- ➔ Transport mode: road
- ➔ Funding schemes: CP (small/medium scale)



ACTIVITY 4: Safety and Security

SST-2007-RTD-1

- **TOPIC – Level 2 - SST.2007.4.1.7**

Socio-economic research for the deployment of safety systems

- ➔ Objective: Explore ways and means to be applied in an open market economy to compensate technology application costs
- ➔ Coverage:
 - ◆ *Identification of economic measures to support the deployment of advanced safety technological solutions*
- ➔ Transport mode: road
- ➔ Funding schemes: CP (small/medium scale)



Work Programme 2007

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					



ACTIVITY 5: Competitiveness

SST-2007-RTD-1

- **TOPIC – Level 1 - SST.2007.5.1.1**
Competitive product development

- ➔ Objective: Advanced design tools and methodologies for competitive processes, products and operations.
- ➔ Coverage:
 - ◆ *Reduction of development cost and time*
 - ◆ *Product modularity*
 - ◆ *Product life cycle optimisation*
 - ◆ *Goal based design*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 5: Competitiveness

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.5.1.2

Cost effective manufacturing and maintenance

- ➔ Objective: Competitive industrial processes specific to transport products.
- ➔ Coverage:
 - ◆ *Manufacturing*
 - ◆ *Assembly*
 - ◆ *Inspection*
 - ◆ *Maintenance*
 - ◆ *Repair*
- ➔ Special emphasis: low cost, high quality, reliability, intelligent and flexible processes; environmental aspects and working conditions.
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 5: Competitiveness

SST-2007-RTD-1

● TOPIC – Level 1 - SST.2007.5.1.3

New production organisations and models

- ➔ Objective: Innovative organisations and models for high quality and cost effective surface transport products.
- ➔ Coverage:
 - ◆ *Management of the supply chain*
 - ◆ *New forms of cooperation involving systems and component suppliers*
 - ◆ *Harmonised homologation and cross-acceptance criteria*
 - ◆ *Co-operations between public and private entities*
- ➔ Transport modes: all surface transport modes
- ➔ Funding schemes: CP (small/medium scale)
CSA (coordinating)



ACTIVITY 5: Competitiveness

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.5.2.1

Meeting customers' expectations for Rail Travel

- ➔ Objective: Changes necessary to the railway system to meet future expectations by passengers.
- ➔ Coverage:
 - ◆ *Identification of physical factors*
 - ◆ *Information and ticketing processes*
 - ◆ *Evaluation of user-friendly way-finding*
 - ◆ *Gaps between future requirements and present rail systems*
- ➔ Transport mode: Rail
- ➔ Funding schemes: CP (small/medium scale)



ACTIVITY 5: Competitiveness

SST-2007-RTD-1

● TOPIC – Level 2 - SST.2007.5.2.2

Dynamic Stability of Lightweight Trains

- ➔ Objective: Establish practical limits on lightening of future trains and optimise trains performance.
- ➔ Coverage:
 - ◆ *Economic and environmental impact of train lightening*
 - ◆ *Practical limit values for train lightening*
 - ◆ *Analysis of trains stability*
 - ◆ *Optimisation of collision resistance and mass reduction*
 - ◆ *Mechatronics and active suspension*
 - ◆ *New European standards*
- ➔ Transport mode: Rail
- ➔ Funding schemes: CP (large scale)



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



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get connected with
***Surface Transport !!**

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Road Rail Waterborne Multimodal * Greening Co-modality Urban Safety & Security Competitiveness



Further information

- CORDIS:
<http://cordis.europa.eu/fp7/dc/index.cfm>
- Transport web site:
 - RTD: http://ec.europa.eu/research/transport/index_en.html
 - TREN: http://ec.europa.eu/transport/index_en.html
- Helpdesk:
http://ec.europa.eu/research/new_hp/index.cfm?pg=enquiries
- Call for experts (evaluators and reviewers):
<http://cordis.europa.eu/emmfp7>



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Thank you for your attention !