

**TRANSPORT POLICY & APPLIED RESEARCH (including related technology watch)
SURFACE TRANSPORT & CO-MODALITY HORIZONTAL ACTIVITIES
FP7 2008 CALLS**

CALL FP7-SST-2008-TREN -1 (Surface Transport Policy/Applications) - **Open: 30 November 2007– 7 May 2008** Budget: € 36 million

CALL FP7-SST-2008-RTD -1 (Surface Transport Technology) **Open: 30 November 2007 – 7 May 2008** Budget: € 102.22 million

CALL FP7-TPT-2008-RTD -1 (Horizontal Actions All Modes – **all except TPT.2008.16**) **Open: 30 November 2007 – 7 May 2008** Budget: € 14.65 million

Call for Tender TPT.2008.16 (Studies supporting FP7 mid-term review & indicators' trends to 2020) **Opening and Closing Dates not yet known** Budget: € 0.35 million

CALL FP7-NMP-2008-SMALL-2 (Nanotechnologies, Materials) **Open: 30 November 2007 – (Stage 1) 6 March 2008 (Stage 2) 2 September 2008** Budget: € 100 million

CALL FP7-NMP-2008-LARGE-2 (Nanotechnologies, Materials) **Open: 30 November 2007 – (Stage 1) 6 March 2008 (Stage 2) 23 September 2008** Budget: € 60 million

CALL FP7-ENV-2008-1 (Environment) **Open: 30 November 2007 – 25 February 2008** Budget: € 212 million

NOTE: there are no 2008 calls open yet in Security, Space & Socio-Economics. The 2008 Calls in ICT & Energy do not specifically focus on future transport applications.

Fuel Cell and Hydrogen Joint Technology Initiative

Research to deliver “fit for use” fuel cell technologies and hydrogen energy to the point of commercial take-off, will be undertaken by the Fuel Cell and Hydrogen Joint Technology Initiative (JTI), a public-private partnership. It will focus for the first two to three years on fuel cells and socio-economic impacts, on roads - but will cover maritime as well and to a lesser extent, rail. Research on power trains and alternative fuels will be covered by the FP7 Transport Thematic Priority.

Below is an indicative summary of research topics with transport policy/applied content in Surface Transport across six Calls in 2008. **Proposers should not rely on this when preparing a proposal - but refer to the relevant Workprogramme and Call Fiche ([CORDIS: FP7 : Find a Call](#))** for full information about the topic's specification, definitions of research level, funding instruments, international cooperation partners, budget, and Call opening and closing dates. The topics are organised:

Transport Futures & Technology Watch (page 1)	Coordination National, Regional & European Research (page 2)	Research Monitoring, Evaluation & Dissemination (page 2)
Policy Support, Modelling, Evaluation, Socio-Economic & Scientific Indicators (page 4-5)	Urban Transport (page 5)	Passenger Mobility (page 6)
Railways (page 7)	Crisis Management (page 8)	Safety & Security (page 8-9) <ul style="list-style-type: none"> • Vehicles, Vessels, Infrastructure • Human Behaviour & Vulnerable Road Users • Road Safety Data
Intelligent Transport (page 9)	Freight Logistics, Mode Optimisation & Intermodality (page 10-11)	Urban Freight (page 11)
Energy & Transport – All Modes (page 12) <ul style="list-style-type: none"> • Powertrains • Alternative Fuels 	Energy & Transport - Roads (page 13) <ul style="list-style-type: none"> • Powertrains 	Energy & Transport - Maritime (page 13) <ul style="list-style-type: none"> • Propulsion Systems
Infrastructure (page 13)	Noise, Air Pollution & Climate Change (page 14-15)	Sustainability & Competitiveness (page 16-17) <ul style="list-style-type: none"> • Transport Operations • Products • Global Competitors • Networks • Future Large/Ultra Large Passenger Ships
Promoting Science in Society (page 17)	Support for Cooperation of Specific Groups (page 17-18)	

INDICATIVE SUMMARY OF RESEARCH TOPICS

Instruments Key: CP = Collaborative Project (RTD)
 CSA = Coordinating Support Action
 SICA = Specific International Cooperation Action

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Transport Futures & Technology Watch			
FP7-TPT-2008-RTD-1	TPT.2008.10 Horizontal: All modes	<p>Exploring future technology paradigms beyond 2050 Discussion Forum on S&T and economic perspectives to gather & generate new ideas for the European transport system. Study/actions to address:</p> <ul style="list-style-type: none"> • designing the transport system for the second half of 21st Century (innovative concepts & future sub-systems) • new mechanisms for the operation of different transport modes beyond 2050 • enhancing the attractiveness of transport modes as a career for young people • information exchange between the project and comparable exercises 	CSA to support research
FP7-SST-2008-RTD-1	SST.2008.6.3	<p>Encouraging step changes/radical technology changes Activities to support development of transport specific innovations to deliver step changes in efficiency & cleanliness in the next 20 years and beyond – which may include:</p> <ul style="list-style-type: none"> • review & assessment of existing/emerging technologies (in other sectors) and their application to transport systems • modelling studies to validate theoretical innovative concepts • realisation & testing of proof of concept hardware • support measures to foster stakeholder development & take-up of technology breakthroughs 	CP- small/medium scale CSA to support research
FP7-NMP-2008-SMALL-2	NMP-2008-1.2-3	<p>Future Transport Applications: Development of technologies for controlled combustion of nanoparticles To address the chemical potential of nanoparticles to deliver improved and/or novel solid fuels – with a focus on future use in transportation including the use of metal oxides as combustion catalysers in engines.</p>	CP- small/medium scale
FP7-NMP-2008-SMALL-2	NMP-2008-2.5-1	<p>Future Transport Applications: Functionally graded materials for improved mechanical performance Research on functionally graded materials (and joint designs) which, by tailoring their nanostructure, provide radical improvements in their mechanical performance in transport applications (particularly under extreme turbine conditions), providing lightweight structures in power train applications and upgrading crash worthiness of vehicle body & chassis.</p>	CP- small/medium scale
FP7-NMP-2008-LARGE-2	NMP-2008-4.0-23	<p>Future Transport Applications: Catalysts & sustainable processes to produce liquid fuels from coal & natural gas Research on the design & development of innovative catalytic processes for sustainable production of transport fuels & gasoline blending components.</p>	CP – large scale integrating

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Coordination of National, Regional & European Research			
FP7-ERANET-2008-RTD-1	SST.2008.6.8	ERA-NET ROAD II Coordinating national and regional public road research programmes and policies: <ul style="list-style-type: none"> • information exchange between national programme owners and managers • implementation of joint activities 	CSA to coordinate research
FP7-TPT-2008-RTD-1	TPT.2008.14 Horizontal: All modes	National & European RTD strategies & programmes on climate-friendly transport & mobility In coordination with ERA-NET Transport to: <ul style="list-style-type: none"> • contribute to the development of a European strategy on climate-friendly transport research funding • improve cooperation in setting up and updating transport RTD strategies by exchange of information & experts • improve synergies between Member States & the EU's RTD agenda • facilitate & enhance cooperation in implementation of national & EU RTD strategies & programmes • foster cooperation in assessment & evaluation 	CSA to support research
Research Monitoring, Evaluation & Dissemination			
FP7-TPT-2008-RTD-1 Call for Tender	TPT.2008.16 Horizontal: All modes	Studies supporting FP7 mid-term review & indicators' trends (time horizon 2020) Assess the evolution of result indicators for measuring the specific objectives of EU transport research based on existing indicators used by the European Commission to assess performance. Studies/actions to: <ul style="list-style-type: none"> • define & measure number of success stories (promising technologies, operational services etc) • measure demonstrators reduction in emissions compared to identified expected impacts • measure coverage of research topics relevant to objectives & identify gaps • measure degree of cooperation & private investment in RTD amongst EU stakeholders • measure SME participation & catalogue according to role. 	CSA to support research
FP7-SST-2008-RTD-1	SST.2008.6.4	Analysis & dissemination of key national & regional transport research results To complement the European activities of the FP6 (ongoing) project, Transport Research Knowledge Centre , by collecting, structuring, synthesising & analysing results of national and regional transport research programmes across Europe in key identified topics using the same taxonomy as the TRKC.	CSA to coordinate research
FP7-TPT-2008-RTD-1	TPT.2008.4 Horizontal: All modes	Impact assessment of transport research funding in Europe on the environment (air, water, soil) Assessment of transport research funding with regard to their impact in solving environmental challenges in the transport sector. Work to be coordinated with the Transport Research Knowledge Centre , ERA-NET Transport & Air-TN. Activities include: <ul style="list-style-type: none"> • better quantification at regional level of the impact of transport research funding in curbing environmental impacts of transport against growing transport demand • classifying & ranking support measures & incentives per research area • classifying & ranking support measures & incentives per categories of beneficiaries of research funding 	CSA to support research
FP7-TPT-2008-RTD-1	TPT.2008.11 Horizontal: All modes	Communication of Framework Programmes' results for transport research Establishment of open dialogue on results achieved by transport research & proposals for improvements; and enhanced dissemination. Work to be coordinated with the Transport Research Knowledge Centre . Activities include: <ul style="list-style-type: none"> • raising awareness of EU transport research strategy • identifying needs of transport services per mode & groups of users with a focus on professional users, vulnerable users & reduced-mobility users • assess & propose ways to improve the responsiveness of EU transport research to identified needs 	CSA to support research

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Policy Support, Modelling, Evaluation & Socio-Economic & Scientific Indicators			
FP7-SST-2008-TREN-1	SST.2008.2.7.1 Level 2 Modal Shift & Decongesting	<p>Policy packages & best practices for transport (all modes)</p> <p>Research to identify & model in advance possible negative effects of policy measures and to develop optimal packages of policy measures to counter negative effects. Activities include:</p> <ul style="list-style-type: none"> • identification & dissemination of best practices • research to develop tools/methodologies to evaluate policy measures including socio-economic assessments • identification of barriers to the implementation of policy packages • transferability of policy packages to different locations 	CSA to support research
FP7-SST-2008-TREN-1	SST.2008.2.7.4 Level 2 Modal Shift & Decongesting	<p>Development & implementation of data collection methodology for EU transport modelling</p> <p>Develop & validate a database of transport data, traffic counts & transport network information for all modes in the EU and its main links with the rest of the world - providing a single central repository (compatible with Member States' statistics) for use in transport policy support tools and existing and new methodologies. Aim to overcome the lack of good quality data which results in discrepancies in the assumptions that different methodologies use. Activities include:</p> <ul style="list-style-type: none"> • developing a process for the collection & validation of data (including consultations with data providers, users & policy makers) • data collection for all transport modes & real traffic volumes; data on variables that influence transport activity or result from it; data on socio-economic & demographic indicators, changing mobility patterns, trade assets, stocks & sales, fuel consumption, prices & taxes etc • a database linked to Member States' transport statistics; and which meets the needs of policy support tools and user requirements provided by/identified in relevant FP projects • recommendations on the future management & update of the database 	CSA to support research
FP7-SST-2008-TREN-1	SST.2008.2.7.5 Level 2 Modal Shift & Decongesting	<p>Freight transport forecasting & globalisation</p> <p>Research into freight transport growth analysis and the impact of globalisation of transport in relation to EU transport policy. The work will be based on the FP6 TRANS-TOOLS and WORLDNET trade models and to provide a new world trade model including logistics. Research will address:</p> <ul style="list-style-type: none"> • freight transport elasticities • costs & benefits of national & EU policy in intermodal & logistics policy, pricing, transport regulation & infrastructure • transport flows originating outside the EU • modelling sea/port choice, containerisation & improving forecasting models for air transport 	CSA to support research
FP7-SST-2008-TREN-1	SST.2008.2.7.6 Level 2 Modal Shift & Decongesting	<p>Assessment of ITS tools for better decision making</p> <p>To improve public authorities' decision making process on deployment of ITS to deliver policy benefits in terms of safety, efficiency, sustainability & the seamless transport of people and goods. Research should focus on pre-implementation evaluation & provide a toolkit for the assessment of ITS applications against policy objectives (for road & public transport with co-modal interfaces). In particular the toolkit will:</p> <ul style="list-style-type: none"> • focus primarily on mature applications • be based on established indicators • take account of existing work (eg TEMPO Evaluation Group, the International benefits Evaluation & Costs Working Group & national activities) • take account of range of impact assessments (socio-economic, user acceptance & financial business case) <p>The project should provide an overview of varying national requirements & frameworks for evaluation & include a mechanism for maintaining & updating the toolkit</p>	CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Policy Support, Modelling, Evaluation & Socio-Economic & Scientific Indicators (continued)			
FP7-ENV-2008-1	ENV.2008.1.2.1.6	<p>Databases based on European cohort studies & their exploitation for advancement of knowledge of environment-health relationships</p> <p>To make data on specific environment-health causal relationships more readily available in a useful form to policy-makers. Activities include:</p> <ul style="list-style-type: none"> • inventories of cohorts • options for sample storage & analysis • database building & data access • analysis & validation • recommendations for future data collection to improve environment-health linkages 	CSA to support coordination
FP7-ENV-2008-1	ENV.2008.4.2.3.2	<p>Enhancing interconnectivity between research & policy-making is sustainable development</p> <p>To achieve better linkage between research results & policy making through secondary exploitation of existing research results & overcoming the gap between disciplines. The topic is for “knowledge brokerage” on a chosen cross-cutting issue connected to the decoupling challenge ie “break the link between environmental degradation & economic growth”. The chosen issue should be one:</p> <ul style="list-style-type: none"> • for which there is a significant body of research which can be synthesised & exploited in novel ways for policy development & organisational learning. • of a relatively small size given the pilot nature of the project • which utilises knowledge generated under the Framework Programmes 	CP – small/medium scale CSA to support coordination
FP7-SST-2008-TREN-1	SST.2008.2.7.3 Level 2 Modal Shift & Decongesting	<p>Innovation process in surface transport</p> <p>Analysis of the innovation process on transport markets with the aim of proposing policy measures to accelerate market take-up & provide a framework for the assessment & evaluation of EU measures to stimulate innovation. Activities include analysis of policy initiatives to:</p> <ul style="list-style-type: none"> • identify key players in innovation (pioneer investors) • describe how innovation spreads in the market, how innovation could be stimulated in networks & the impact of different policy measures • identify best practice & develop conceptual framework for possible policies 	CSA to support research
Urban Transport			
FP7-SST-2008-RTD-1	SST.2008.3.1.7 Level 2 Sustainable Urban Mobility	<p>Large event mobility management (especially in big cities)</p> <p>To demonstrate at the 2010 Soccer World Cup in South Africa & the 2010 Commonwealth Games in India, advanced information & communication technologies to improve traveller comfort, safety, security & transport efficiency & reduce road user fatalities, congestion & pollution. Technologies should benefit citizens beyond the Games. Activities to address:</p> <ul style="list-style-type: none"> • dynamic traffic management systems & real-time traffic information for metropolitan areas • public transport (tracking & tracing fleet management, demand responsive transport, integrated ticketing etc) • deployment of inner city public transport services along major axes with links (district hubs, modal interchange points) • tools to optimise operational transport plans using historic & real-time demand data • web-based systems to integrate public transport & traffic management operations & data delivery to mobile users • traveller services based on mobile communications • demand management strategies based on economics & measures to influence travel behaviour • fleet management mechanisms to ensure good practice in terms of safety 	CP – small/medium scale SICA

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Passenger Mobility			
FP7-SST-2008-RTD-1	SST.2008.3.1.1 Level 1 Sustainable Urban Mobility	<p>New mobility concepts for passengers ensuring accessibility for all (NB: Relaunch of 2007 Topic – previously for a CSA to coordinate research)</p> <p>Technological innovation & system development of new mobility concepts to identify solutions which are more energy efficient, better organised & fully accessible to people in cities:</p> <ul style="list-style-type: none"> • new guided/non-guided vehicle/vessel concepts • innovative schemes for their deployment • efficient use of infrastructure & its interlinkage with where appropriate dedicated infrastructure for motorised/non-motorised vehicles/vessels • emphasis on accessibility for all (elderly, disabled) • addressing the user & future regulation & standardisation requirements 	CP – small medium scale
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.2 Level 1 Sustainable Urban Mobility	<p>Intelligent mobility systems & multi-modal interfaces for passenger transport (NB: Relaunch of 2007 Topic – previously for a CSA to coordinate research)</p> <p>Systems, methodologies & techniques for intelligent mobility systems & multi-modal passenger transport within & between cities. Activities:</p> <ul style="list-style-type: none"> • data collection techniques • traffic management systems, route optimisation & traffic planning • user-friendly, reliable multimodal travel information systems • multi-modal interfaces between systems & modes 	CP – small medium scale
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.5 Level 2 Sustainable Urban Mobility	<p>Urban buses & delivery vehicles using second generation hybrid electric technology</p> <p>To demonstrate under real-life conditions in different cities the potential of advanced second generation parallel hybrid technology for vehicles in urban fleets. Performance to be assessed in terms of fuel/energy consumption, local & global emissions & noise, high performance life-span, acceptance by public transport & delivery operators, drivers & passengers. Activities include:</p> <ul style="list-style-type: none"> • design of new urban buses & delivery vehicles based on second generation parallel hybrid technology, low body weight & other components • integration of auxiliary components (braking, energy recuperation systems, cooling systems) • optimisation of electrical/thermal energy flows in vehicles 	CP – large integrating
FP7-TPT-2008-RTD-1	TPT.2008.6 Horizontal: All modes	<p>Optimisation & integration of R&D efforts for transport of passengers by co-modality</p> <p>Optimal & reliable infrastructure interfaces & combined operations to integrate the different passenger transport systems (aeronautics, road, rail, waterborne). Activities include:</p> <ul style="list-style-type: none"> • identification of the need (and research) for technical solutions for co-modality & door-to-door passenger transport • dialogue for cross-fertilisation of technical solutions between modes in specific areas eg passenger cabin comfort, sustainable materials, human factors, stimulation of radical technologies • transfer of technologies & best practice between modes 	CP – small/medium scale CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Railways			
FP7-SST-2008-RTD-1	SST.2008.1.1.6 Level 2 Greening	<p>Emission reduction technologies for diesel locomotives</p> <p>Develop, improve, integrate emissions reduction technologies for diesel locomotives to achieve emission levels below limits of new European Directive 2004/26/EC and upcoming Directives. Activities:</p> <ul style="list-style-type: none"> investigate state of the art of low emission diesel engines & after-treatment technologies in rail applications and technology transfer from road & stationary applications to rail develop new low emission diesel engines and particulate filter systems, NOx reduction technologies taking account of size & weight limitations to comply with rail restrictions test, validate & integrate system in new/existing locomotive architectures complying with railway regulations/standards study effect of low emission technologies & after treatment systems on engine durability, reliability, maintenance, fuel consumption & possible use of biodiesel 	CP- large scale integrating
FP7-SST-2008-RTD-1	SST.2008.1.1.7 Level 2 Greening	<p>Attenuation of vibrations & vibration induced noise affecting residents near railway lines</p> <p>Develop holistic approaches to reduce vibration & induced noise from rail traffic to mitigate its impact on residents:</p> <ul style="list-style-type: none"> establish test procedures to monitor & control performance of mitigation measures under realistic conditions technologies/systems to reduce noise & vibration at source through improved wheel/track interventions, new materials, advanced braking systems etc technologies, concepts, prototypes for mitigation of vibration induced noise (vehicles, infrastructure, maintenance) define & validate procedures for evaluation of exposure to vibration & vibration induced interior noise 	CP- large scale integrating
FP7-SST-2008-RTD-1	SST.2008.2.1.3 Level 2 Modal Shift & Decongesting	<p>New generation of European freight train system</p> <p>Development of specifications & concepts for a new generation of freight trains to improve cost effectiveness, flexibility, punctuality, inter-operability & environmental friendliness. Research to focus on wagon load freight trains & block trains:</p> <ul style="list-style-type: none"> train specifications meeting customer demands in line with future projections of rail freight traffic modular, flexible interoperable train concepts concepts/technologies to minimise noise, vibration, energy consumption, energy consumption & emission reduction definition of standards & modular & interchangeable components for different freight train concepts 	CP- large scale integrating
FP7-SST-2008-TREN-1	SST.2008.2.1.6 Level 2 Modal Shift & Decongesting	<p>Rail transport in competitive & co-modal freight logistics</p> <p>To build on rail projects on market access, interoperability, infrastructure, safety & the environment (ReOrient, TREND, NewOpera); demonstrating the potential of interoperable rail freight corridors and their integration with other transport modes (RETRACK, CREAM, BRAVO) - demonstrating rail transport's competitiveness in logistic chains. Activities:</p> <ul style="list-style-type: none"> utilising technologies & concept for management of transport & traffic flows demonstrate service quality & reliability of co-modal logistic chains evaluate economic impact, social & environmental impacts (noise mitigation, pollution & CO2 emissions) evaluate service performance using indicators derived from 2007 call "benchmarking logistics" assess status of implementing & impact of relevant legislation form rail 	CP- large scale integrating
FP7-SST-2008-RTD-1	SST.2008.2.5.1 Level 1 Modal Shift & Decongesting	<p>Interoperable rolling stock</p> <p>Technologies & innovative train concepts characterised by interoperability & cross-operations between different rail networks for passengers & freight. To contribute to standardisation (Technical Specifications for Interoperability (TSIs). Solutions to be based on:</p> <ul style="list-style-type: none"> advanced mechatronic systems & on-board electronics information & communication systems & satellite technology & services 	CP- small/ medium scale CSA to support research

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Crisis Management (all surface transport modes)			
FP7-SST-2008-RTD-1	SST.2008.1.2.1 Level 1 Greening	<p>Preventative & emergency interventions to protect marine, coastal & land environments</p> <p>Development of technologies, systems & procedures for accident preventative & emergency post-accident interventions on vehicles & vessels - including the removal of spillages (by mechanical, chemical & biological means). Activities are aimed at the rapid, effective & safe detection, notifications & interventions on vehicles & vessels in emergency situations (eg capsized ships, vehicle collisions), and include:</p> <ul style="list-style-type: none"> • development of accident modelling & simulation tools for impact prediction & intervention definition in real time. • for operations at sea - integration of underwater robotics, advanced sensing & tooling for interventions in wrecks & prevention of oil spill; and international cooperation with the USA, Russia & Japan on underwater interventions. 	CP- small/medium CSA to support coordination
<p>Safety & Security</p> <ul style="list-style-type: none"> ➤ Vehicles, Vessels, Infrastructure ➤ Human Behaviour & Vulnerable Road Users ➤ Road Safety Data 			
FP7-SST-2008-RTD-1	SST.2008.4.1.1 Level 1 Safety & Security	<p>Safety & security by design</p> <p>Technologies & methodologies for design of transport systems with intrinsic safety & security characteristics which support harmonisation & standardisation. Scope includes:</p> <ul style="list-style-type: none"> • design of vehicles, vessels, infrastructures including adaptive safety systems); their interaction & mutual impacts • innovative solutions combining energy reduction & required safety levels • new vehicle design concepts with attention on changes to structural design arising from development of alternative fuel powered vehicles • vehicle to vehicle compatibility & conspicuity (focus on two wheelers & heavy vehicles) • integrated solutions for safe & secure transport of hazardous goods • technologies, systems & their integration top provide security for transport users with a focus on large terminals • improvement of human comfort in vehicles – ergonomics & cognitive aspects related to driving to minimise error 	CP – small/medium scale
FP7-SST-2008-RTD-1	SST.2008.4.1.2 Level 1 Safety & Security	<p>Human components</p> <p>Technologies & systems & their integration & evaluation aimed at increasing protection of transport users (pilots/drivers, passengers, workers, pedestrians, motorcyclists) with focus on vulnerable users including</p> <ul style="list-style-type: none"> • evaluation of social benefits associated with technology investments for the protection of vulnerable users • enhance safety relevant behaviour of railway workers & road and railway construction workers • passenger evacuation systems (trains/tunnels/terminals/large vessels); psychological aspects in panic situations 	CP – small/medium scale
FP7-SST-2008-RTD-1	SST.2008.4.1.3 Level 1 Safety & Security	<p>Integral system solutions for safety</p> <p>Integration of all components of the transport system for increased safety (vehicle/vessel/infrastructure/driver-user). Methods, tools, technologies for safety solutions which are reliable, fault tolerant & integrate human behaviour, preventative & impact mitigating systems & infrastructure performance. For rail & waterborne activities include:</p> <ul style="list-style-type: none"> • user-friendly human/machine ergonomic interfaces; driving support systems; environmental perception performance • integration of technologies to sense & predict dynamic & quasi-static infrastructure conditions at the global/local level • advanced monitoring & diagnostic systems based on multi-sensing & data fusion • solutions based on intelligent control systems, smart electronic components; ICT systems • interactions between the vehicle/vessel, driver/passenger/user & infrastructure 	CP – large integrating CSA to support coordination

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Safety & Security (continued) ➤ Vehicles, Vessels, Infrastructure ➤ Human Behaviour & Vulnerable Road Users ➤ Road Safety Data			
FP7-SST-2008-TREN-1	SST.2008.4.2.1 Level 2 Safety & Security	Road safety data collection, transfer & analysis (DaCoTA) Contribute to the further development of the European Road Safety Observatory by building on previous EU funded research to better understand overall road safety dynamics through full scale integrated assessment of macroscopic & in-depth accident data collection, transfer & analysis; evaluation of road safety measures; policy benchmarking; data on behaviour/attitudes; data quality & standardisation. Activities include: <ul style="list-style-type: none"> • multi-country comparisons of data & models • comprehensive policy analysis at European or countries level • involvement of stakeholders including public authorities, road operators, vehicle manufacturers, road users, insurance companies etc) • prepare the way for further developments in in-depth data collection & analysis In the longer term the topic should open the way for a routine activity in all Member States and associated states.	CP – small/ medium scale
FP7-SST-2008-RTD-1	SST.2008.4.1.4 Level 2 Safety & Security	Road safety of vulnerable road users in emerging economies To define, develop, test & demonstrate a methodology & tools for protecting vulnerable road users taking account of infrastructure design & land use planning in emerging economies based on European experience & specific needs of the emerging economies including options for risk prevention for cyclists & younger and older pedestrians. Activities to address: <ul style="list-style-type: none"> • development of an innovative methodology for conceiving & maintaining road infrastructure capable of ensuring a high level of pedestrian safety & tools for protecting vulnerable road users • apply & demonstrate the methodology to a road construction or renewal project in an emerging economy (India, Brazil &/or South Africa) 	CP – small/ medium scale SICA
Intelligent Transport			
FP7-SST-2008-RTD -1	SST.2008.2.6.1 Level 1 Modal Shift & Decongesting	Intelligent highways Contribute to the evolution of next generation highways based on intelligent infrastructure & vehicles taking account of the maturity of the necessary technologies & safety & liability issues. Activities to focus on: <ul style="list-style-type: none"> • central & on-board management & guidance systems using satellite & local information to stabilise vehicle trajectories & regulate vehicle speed & separation with high accuracy & reliability • special focus on truck applications for short to medium term implementation (including physical separation of automated trucks from passenger trucks & truck drivers training) 	CP – small/ medium scale CSA to support coordination
FP7-SST-2008-RTD-1	SST.2008.3.1.6 Level 2 Sustainable Urban Mobility	Transport planning & traffic information in cities Design, validate in service trials, and demonstrate an open integrated platform for traffic information collection, management & broadcasting using European developed technologies, standards & protocols. Activities include: <ul style="list-style-type: none"> • creation of an integrated approach to innovative systems for traffic data collection, management & personalised delivery of dynamic language independent information • design of an open platform with interfaces to a range of mobility services (journey planning, route guidance, transport booking & payment, personal communication & safety) • demonstration of integrated solutions in European cities and emerging markets (eg Brazil, China) 	CP – small/ medium scale SICA

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Freight Logistics, Mode Optimisation & Intermodality			
FP7-SST-2008-TREN -1	SST.2008.1.1.9 Level 2 Greening	<p>Green corridors</p> <p>Following on from the Logistics Action Plan (18 October 2007) which introduced the notion of green corridors, the topic is for the establishment of networks of transport operators, infrastructure managers & shippers with an interest in a specific freight corridor to:</p> <ul style="list-style-type: none"> • identify shared concerns & best practice to achieve economic efficiency, social acceptance & environmental sustainability • explore the characteristics of potential green corridors & their expected energy & environmental performance; & pathways to ensure the green corridors efficiently interface with one another. <p>It is envisaged that a future topic will be launched for R&D proposals to demonstrate the feasibility of optimally combining rail, road & waterborne transport along a set of major freight corridors to create a seamless freight logistics chain. Within each mode the use of green propulsion technologies for vehicles & alternative fuels/propulsion systems will be encouraged along with the integration of information & communication flows.</p>	CSA to support research
FP7-SST-2008-RTD -1	SST.2008.2.1.1 Level 1 Modal Shift & Decongesting	<p>Efficient interfaces between transport modes</p> <p>Development of technologies, equipment & their integration, & market uptake potential for efficient & safe interfaces between modes & within intermodal chains & for increased automation in terminals. Proposals to cover one or more of:</p> <ul style="list-style-type: none"> • fast, economic, safe loading/unloading operations for different cargo types • systems for cargo transshipment & storage within terminals • systems for optimal use of storage space in vehicles, vessels & terminals • standardisation of terminals & equipment 	CP – small/medium scale CSA to support coordination
FP7-SST-2008-RTD -1	SST.2008.2.1.2 Level 1 Modal Shift & Decongesting	<p>Improved services in terminals</p> <p>Development of technologies & procedures for improved services provided by transport terminals. Emphasis on effective, safe, clean operations & minimisation of turn-around time & cost. Proposals to cover one or more of:</p> <ul style="list-style-type: none"> • vehicle/vessel manoeuvring assistance within and near terminals/ports • terminal auxiliary services (infrastructure maintenance & inspection, mooring, ICT etc) • waste management & reduction (including ballast water in ports) • networking between terminals • definition of service quality standards for terminals 	CP – small/medium scale CSA to support coordination
FP7-SST-2008-TREN -1	SST.2008.2.1.5 Level 2 Modal Shift & Decongesting	<p>Co-modal IT transport solutions</p> <p>Taking account of past & ongoing research, to develop a road map for an integrated ICT concept (e-freight) within & between modes for a paper-free electronic flow of information with the ability to track & trace freight along its journey across transport modes and to automate exchange of data for regulatory/commercial purposes. It will:</p> <ul style="list-style-type: none"> • identify problem areas where standardisation is required • build on emerging electronic capabilities, GNSS, RIS, TAF/TSI (telematics applications for freight/technical specifications for interoperability) & VTMS to create a more efficient, interoperable, harmonised & auditable freight related information exchange within the logistics chain • address, amongst other things, e-documentation, development & validation of e-transaction & e-security • support implementation of a European e-maritime platform to support specific policies including better integration of short sea shipping, in the logistics chain & motorways of the sea • research to support the needs of the freight oriented rail network. 	CP

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Freight Logistics, Mode Optimisation & Intermodality (continued)			
FP7-SST-2008-RTD -1	SST.2008.2.1.4 Level 2 Modal Shift & Decongesting	<p>Continental shipping</p> <p>Promote the development of sustainable waterborne transport of passengers & goods using short sea shipping & inland waterways. Research is aimed at studying, developing & validating a new generation of vessel concepts & the required technological developments – taking account of safety & security issues, ship/shore interface, logistics, LCC optimisation, ice-conditions & Arctic routes - for deployment at fleet level. Activities to address:</p> <ul style="list-style-type: none"> • innovative vessel concepts & interface with infrastructures • new ship architectures based on modularisation & standardisation of components; their virtual simulation & testing • innovative hull forms with optimal hydrodynamic performance • innovative ship structures & new materials for optimal weight/cost & crash worthiness • new propulsion & auxiliary energy systems • specialised cargo handling systems & ship/shore interface • safe operations taking account of shallow water conditions • navigation systems for optimal route planning & logistics of traffic flow in door to door multimodal transport chains • innovative environmentally friendly hull coatings to prevent bio-fouling & corrosion 	CP – large scale integrating
Urban Freight			
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.3 Level 1 Sustainable Urban Mobility	<p>New vehicle concepts for the delivery of goods</p> <p>Development of innovative systems & solutions for new goods delivery vehicles. Activities include:</p> <ul style="list-style-type: none"> • development, market introduction, implementation & evaluation of the economic and social impact of new multifunctional vehicles for different types of, & flexible, freight & goods services 	CP – small/ medium scale CSA to support coordination
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.4 Level 1 Sustainable Urban Mobility	<p>Urban freight delivery systems</p> <p>Development of efficient technologies & systems for freight movements & goods services in cities with minimal impact on residents. Activities include one or more of:</p> <ul style="list-style-type: none"> • loading/unloading systems with reduced noise & pollution (including night freight delivery) • new concepts for better integration of functions for freight distribution & collection • appropriate location of depots • optimised fleet management & freight vehicle routing • advanced home delivery concepts • advanced concepts & systems for urban freight data collection 	CP – small/ medium scale CSA to support coordination
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.5 Level 2 Sustainable Urban Mobility	<p>Urban buses & delivery vehicles using second generation hybrid electric technology (listed under Energy & Transport and Passenger Mobility as well)</p> <p>To demonstrate in real-life conditions in different cities the potential of advanced second generation parallel hybrid technology for vehicles in urban fleets. Performance to be assessed in terms of fuel/energy consumption, local/global emissions/noise, acceptance by public transport & delivery operators, drivers & passengers. Activities include:</p> <ul style="list-style-type: none"> • design of new urban buses & delivery vehicles based on hybrid technology, low body weight & other components • integration of auxiliary components (braking, energy recuperation systems, cooling systems) • optimisation of electrical/thermal energy flows in vehicles 	CP – large integrating

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Energy & Transport – All Surface Transport Modes ➤ Powertrains (gasoline, diesel, electric-hybrid, bio-based fuel) ➤ Alternative Fuels			
FP7-SST-2008-RTD-1	SST.2008.1.1.1 Level 1 Greening	Clean & energy efficient gasoline & diesel power trains Technologies & innovative solutions for clean energy efficient gasoline & diesel power trains. To cover one or more of: <ul style="list-style-type: none"> • knowledge to better understand the combustion process & its optimisation (simulation & experimental validation) • intelligent engine controls (model based, closed loop controlled, easy calibration, portable) & flexible power trains • new generation of integrated, durable, compact after treatment systems • innovative components & auxiliary systems • overall power-train optimisation 	CP-small/ medium scale CSA to support coordination
FP7-SST-2008-RTD-1	SST.2008.1.1.2 Level 1 Greening	Electric-hybrid power trains Technologies & integration for improved and simplified hybrid electric power trains – to include: <ul style="list-style-type: none"> • engines, components & control strategies for innovative electric and electric-hybrid drive-trains (with a variety of applications eg city vehicles & light commercial vehicles) • emphasis - low cost, component modularity, energy efficiency, longer term storage solutions for energy applications • energy storage can include two or more energy storage/converter options or purely battery electric vehicles 	CP-small/ medium scale CSA to support coordination
FP7-SST-2008-RTD-1	SST.2008.1.1.5 Level 2 Greening	Future power-trains for commercial vehicles Power-trains based on internal combustion engine used in rail-traction, truck, bus and waterway vessel applications with near zero emission levels (better than EURO-VI) throughout engine's useful life – fully optimised to meet future demands for bio-based fuel. Research into new advanced engine concepts with dedicated transmission and integrated after treatment taking account of relevant EU, national & international research. To include: <ul style="list-style-type: none"> • better understanding & optimisation of combustion process • closed loop control of power-trains including after treatment • intake air & exhaust gas handling systems • cooling systems • new generation of integrated after treatment systems • overall power train optimisation 	CP - large scale integrating
FP7-TPT-2008-RTD-1	TPT.2008.15 Horizontal: All modes	Cross fertilisation of alternative fuels research across all transport modes Dissemination of knowledge & research results on alternative fuels to exchange information & transfer/adapt the latest alternative fuels technologies, procedures & best practices between transport modes. International cooperation is encouraged with Brazil, USA & India on bio-fuels & South Africa on synthetic fuels. Involvement of the Technology Platforms ACARE & ERRAC is also envisaged. Activities include: <ul style="list-style-type: none"> • organisation of conferences, seminars, workshops at regional, national, European & international level • establishment of web-sites & web-based fora • studies to analyse, compare, assess & link results from past & ongoing research projects identifying commonalities between modes & making recommendations for further R&D in alternative fuels transport research 	CSA to support research SICA

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Energy & Transport - Roads ➤ Powertrains			
FP7-SST-2008-RTD-1	SST.2008.1.1.4 Level 2 Greening	Future light duty vehicle engines for road transport Development of new powertrain concepts capable of significant reductions in CO ₂ for passenger cars & light-duty vehicles for the 2020 fleet to support the Light-duty Environmentally Enhanced Vehicle (LEEV) concept. The target is near-zero emissions. Activities include research, development, validation & demonstration of: <ul style="list-style-type: none"> • advanced concepts for future SI engines addressing low cost/low emission engines for light-duty vehicles • advanced engine concepts based on an integrated & dual-mode combustion system with a focus on advanced after-treatment in real-life conditions and reduction of engine frictions 	CP - large scale integrating
CALL FP7-SST-2008-RTD-1	SST.2008.3.1.5 Level 2 Sustainable Urban Mobility	Urban buses & delivery vehicles using second generation hybrid electric technology (listed under Urban freight & Passenger Mobility as well) To demonstrate in real-life conditions in different cities the potential of advanced second generation parallel hybrid technology for vehicles in urban fleets. Performance to be assessed in terms of fuel/energy consumption, local/global emissions/noise, acceptance by public transport & delivery operators, drivers & passengers. Activities include: <ul style="list-style-type: none"> • design of new urban buses & delivery vehicles based on hybrid technology, low body weight & other components • integration of auxiliary components (braking, energy recuperation systems, cooling systems) • optimisation of electrical/thermal energy flows in vehicles 	CP – large integrating
Energy & Transport - Maritime ➤ Propulsion Systems			
FP7-SST-2008-RTD-1	SST.2008.1.1.8 Level 2 Greening	New ship propulsion systems Optimisation of hydrodynamic performance of new ship propulsion systems focusing on hull design & propulsion configurations to maximise energy conversion and the conversion of ship power into thrust with low levels of cavitation, noise & vibration. New configurations to be investigated under all operational conditions (eg rough seas, ice). Activities include: <ul style="list-style-type: none"> • methodologies based on advanced CAE tools for accurate prediction of thrust conversion, noise & vibration • definition & assessment of new propeller concepts integrated with innovative hull forms • assessment of the use of non-metallic propulsion materials • analysis of operational reliability & compliance with safety rules & economic factors 	CP - large scale integrating
Infrastructure			
FP7-SST-2008-RTD-1	SST.2008.5.1.1 Level 1 Competitiveness	Advanced & cost effective infrastructure construction, maintenance & monitoring New design, construction & maintenance processes specific to surface transport that address new infrastructure & renovation of existing infrastructure. Aim: <ul style="list-style-type: none"> • high quality, high level of service, effective, energy efficient, low resource consumption & long service life taking account of life cycle performances, durability & impact on traffic (safety & mobility) • infrastructure monitoring processes that minimise traffic/user disruption & reduce congestion – to include traffic speed monitoring of surface & structural condition • standardisation supported by demonstrations 	CP – small/ medium scale CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Noise, Air Pollution & Climate Change			
FP7-SST-2008-RTD-1	SST.2008.1.1.3 Level 1	<p>Holistic noise & vibration abatement Technologies/studies for noise & vibration reduction – taking an entire vehicle/vessel & infrastructure system approach taking into account standard practice & legislation - with a focus on:</p> <ul style="list-style-type: none"> • cost benefit analysis of noise reductions • unified noise assessment methodologies • control at source • attenuation through wave propulsion analysis & systems for passive & active compensation 	CP small/ medium Scale CSA to coordinate research
FP7-ENV-2008-1	ENV.2008.1.2.1.3 Environment	<p>European research network on noise & health A network of research organisations working on noise & related health effects to develop new strategies for noise research and exchange information on:</p> <ul style="list-style-type: none"> • recent developments in noise research • novel methods of exposure assessment & measurement of moderating factors • health risks • impact of co-stressors (air pollution), settings (transport) and novel types of exposure 	CP - large scale integrating
FP7-TPT-2008-RTD-1	TPT.2008.1 Horizontal: All modes	<p>Assessing disruptive effects of extreme weather events on operation & performance of EU transport system Cost assessment of damage & mitigation/adaptation measures for extreme weather events. Activities to focus on:</p> <ul style="list-style-type: none"> • adaptation of transport infrastructures to increased frequency of extreme weather events • identification of vulnerabilities to develop relevant responses • input to & support for EU policies on climate change in coordination with EU funded environmental research • identification of research needs on transport technologies, infrastructure planning, construction, maintenance & policy 	CP Small/ Medium Scale CSA to coordinate research
FP7-TPT-2008-RTD-1	TPT.2008.2 Horizontal: All modes	<p>The climate-friendly travel choice in the city, region & world of tomorrow To improve understanding of greenhouse gas emissions resulting from mobility & consumption choices as a tool to help reduce emissions by quality assuring & improving existing information sources. Activities include:</p> <ul style="list-style-type: none"> • developing an open integrative platform with interfaces to a range of integrated emission related information systems • large scale demonstration of integrated solutions for cities in Europe & regional & interregional mobility • identification of scenarios for climate-friendly travel choices in the city, region & world of tomorrow 	CP small/ medium Scale
FP7-TPT-2008-RTD-1	TPT.2008.5 Horizontal: All modes	<p>Techno-economic analysis per mode & combined modes to meet EU greenhouse gas emission reduction targets at time horizon 2020 & beyond To deliver a better strategic outlook on the future European transport system in terms of socio-economic measures & costs; & identification of technological pathways required to meet the EU's greenhouse gas emission targets set out in COM(2007)2 & endorsed by the EU Spring Council in 2007. Activities include:</p> <ul style="list-style-type: none"> • identifying measures for mitigation & adaptation of transport greenhouse gas emissions • analysing relevant transport policy & transport research policy measures • using identified measures to build scenarios aimed at measuring effectiveness of identified mitigation & adaptation measures • assessing technical feasibility, affordability, acceptability of scenarios, behavioural aspects & likelihood of realisation of scenarios 	CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Noise, Air Pollution & Climate Change (continued)			
FP7-TPT-2008-RTD-1	TPT.2008.3 Horizontal: All modes	Lead markets for zero greenhouse gas emission transport systems Assessment of the potential market diffusion on a large scale of zero-emission transport services. activities include: <ul style="list-style-type: none"> assessment of existing options for zero-emission services for passenger transport & logistics analysis of demand & market drivers for new services or products demonstration of innovative mobility or logistics concepts 	CSA to support research
FP7-SST-2008-TREN-1	SST.2008.1.3.1 Level 1 Greening	Effects of climate change on inland waterway and transport networks Research to assess and manage the risks of climate change on the transport system (all modes & their connections) – using inland waterways as a case study. Activities to address: <ul style="list-style-type: none"> new means of spatial & infrastructure planning & regional economic policy (ports, industries, logistic centres) new technological & operational developments (new vessel concepts, new materials, new propulsion systems) development of a long-term vision & development plan for inland waterway transport & its role in integrated transport systems with a focus on human-induced climate change & risks to ecosystems, societies & economies. 	CSA
FP7-SST-2008-RTD-1	SST.2008.6.6 Level 1 Cross-cutting	Integration of marine & maritime sciences in waterborne transport To tackle the fragmentation of marine & maritime research between sectors (eg transport, environment, energy, fisheries) to address global challenge of climate change by: <ul style="list-style-type: none"> pooling together and exploiting synergies of marine and maritime basic sciences with socio-economics & applied sciences taking into account the complexity of Oceans of the Seas developing a new holistic approach & research concepts launching awareness campaigns & open public debates 	CSA to support research
FP7-SST-2008-TREN-1	SST.2008.2.7.2 Level 1 Modal Shift & Decongesting	Sustainability effects of new logistics & manufacturing systems transport impacts Research to better understand the impact of the fragmentation of manufacturing & logistics processes on transport flows, congestion, safety, noise & CO2 emissions and trade offs between transport & sustainability. Activities include: <ul style="list-style-type: none"> development an input-output table to show the CO2 content/footprint of every product & transaction in the transport sector to identify the net CO2 footprint of the EU transport sector costs & benefits (economic, social environmental) of reducing footprint in transport sectors & the whole economy. 	CSA to support research
FP7-TPT-2008-RTD-1	TPT.2008.14 Horizontal: All modes	National & European RTD strategies & programmes on climate-friendly transport & mobility (included under Coordination of National, regional & European Research also) In coordination with ERA-NET Transport to: <ul style="list-style-type: none"> contribute to the development of a European strategy on climate-friendly transport research funding improve cooperation in setting up and updating transport RTD strategies by exchange of information & experts improve synergies between Member States & the EU's RTD agenda facilitate & enhance cooperation in implementation of national & EU RTD strategies & programmes foster cooperation in assessment & evaluation 	CSA to support research
FP7-TPT-2008-RTD-1	TPT.2008.12 Horizontal: All modes	Raising citizen awareness of research results for climate friendly transport systems (included under Promoting Science in Society also) To improve awareness & appreciation of the importance of climate-friendly & zero emission technologies in transport. Activities should <ul style="list-style-type: none"> target various public groups & stakeholders from local decision makers, related industries & public authorities to students, families & local transport groups & organisations 	CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Sustainability & Competitiveness: > Transport Operations > Products > Global Competitors > Networks > Future Large/Ultra Large Passenger Ships			
FP7-SST-2008-RTD-1	SST.2008.5.2.2 Level 1 Competitiveness	Competitive transport operations Innovative methodologies & technologies for more competitive transport operations providing reliable, environmentally friendly, efficient & economic services to customers. Activities to address: <ul style="list-style-type: none"> • Holistic strategies for the minimisation of operation, environmental, maintenance & inspection costs • Navigation & control systems for optimised planning 7 routing across the entire transport chain taking into account real time traffic data • Weather and sea-state (for waterborne applications) for the optimisation of infrastructure capacity 	CP – small/medium scale CSA to support coordination
FP7-SST-2008-RTD-1	SST.2008.5.2.1 Level 1 Competitiveness	Innovative product concepts Innovative surface transport products & systems concepts (vehicles, vessels & infrastructure but excluding their improvement, design & manufacture) to increase competitiveness of the European industry & meet customer requirements, changing markets & environmental challenges. Activities: <ul style="list-style-type: none"> • to contribute to the development of next generation innovative products & concepts that are highly competitive, emit less CO2, dramatically reduce maintenance & inspection costs & are tailored to customer expectations • for certain categories of products & sectors, high technology value added products to be investigated to create & enter new niche markets. 	CP – small/medium scale CSA to support coordination
FP7-TPT-2008-RTD-1	TPT.2008.9 Horizontal: All modes	Prospective study on upcoming global competitors for the European transport industry targeting manufacturers & hi-tech service providers Improved understanding of the global position of the European transport industry & definition of strategic options for European transport research policy. Activities include: <ul style="list-style-type: none"> • assessment of today's pre-competitive position of European transport research per mode and kind of infrastructure • assessment of risk of critical saturation of infrastructure lines & nodes • definition of European best practice to manage, maintain & modify infrastructures to extend life-cycles & preserve asset values • SWOTs analysis and scenario building • develop identified scenarios for time horizon 2020 & beyond • derive roadmaps of strategic options for European transport research policy. 	CSA to support research
FP7-TPT-2008-RTD-1	TPT.2008.13 Horizontal: All modes	New mobility/organisational schemes: interconnection between short & long-distance transport networks Development & analysis of new mobility schemes & related organisational patterns at the interface & interconnection between long distance transport networks & local/regional networks of all modes. Activities include: <ul style="list-style-type: none"> • coordination between decision-making levels on issues related to interconnection of transport networks of different scales & modes addressing institutional, legal, design, planning, technical & deployment aspects • identification of state of the art on interconnectivity by analysing research results & pre-deployment activities • establish good practice & explore key issues not yet adequately addressed • propose future requirements & actions • disseminate results to stakeholders – particularly policy-makers & transport operators. 	CP – small/medium scale CSA to support coordination

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Sustainability & Competitiveness (continued): > Transport Operations > Products > Networks > Future Large/Ultra Large Passenger Ships			
FP7-SST-2008-RTD-1	SST.2008.5.2.3 Level 2 Competitiveness	Competitive Ship To develop new concepts & technologies for future large & ultra large passenger ships & provide: <ul style="list-style-type: none"> • new validated methodologies & tools for life-cycle cost assessment in ship design • framework tools for the optimisation of the ship & its key systems • architectural & technical components for ships of the future designed using a systems based approach • proof & validation of feasibility of these techniques within an operational commercial environment • concept designs compared to conventional state of the art • prototypes & numerical models for key sub-systems • cost benefit analysis • steps to ensure application of technologies • performance indicators to ensure measurement of post project impact 	CP – small/medium scale CSA to coordinate research
Promoting Science in Society			
FP7-SST-2008-RTD-1	SST.2008.6.7 Level 1 Cross Cutting	Shaping the new generation of sustainable surface transport mobility for Europe To address the fragmentation of modal surface transport research and promote its integration and attractiveness to young people by: <ul style="list-style-type: none"> • pooling basic sciences with socio-economics and applied sciences • developing new concepts & skills for young people across sectors • awareness campaigns and open public debate addressing young people & transport stakeholders. 	CSA & SA to support research
FP7-TPT-2008-RTD-1	TPT.2008.12 Horizontal: All modes	Raising citizen awareness of research results for climate friendly transport systems To improve awareness & appreciation of the importance of climate-friendly & zero emission technologies in transport. Activities should <ul style="list-style-type: none"> • target various public groups & stakeholders from local decision makers, related industries & public authorities to students, families & local transport groups & organisations 	CSA to support research
Support for Cooperation of Specific Groups			
FP7-SST-2008-RTD-1	SST.2008.6.1 Level 1 Cross Cutting	Stimulating participation of SMEs Activities to stimulate, encourage & facilitate participation of SMEs & SME clusters in FP7 research activities – particularly in projects addressing area 7.2.5 (strengthening competitiveness). Activities include: information events, networking, studies, workshops.	CSA to support research
FP7-TPT-2008-RTD-1	TPT.2008.7 Horizontal: All modes	Market uptake of transport research results & support to SMEs Better understanding of context of European research funding in terms of modes, actors, regions & barriers facing SMEs in RTD performance & market uptake of results. Activities include: <ul style="list-style-type: none"> • mapping trends in industrial transport research across the EU-27 to describe the role, weight & profile of SMEs • assessing research funding instruments available to SMEs & identifying innovative economic & financial instruments • dynamic analysis of barriers & drivers to market uptake by SMEs of transport research results, & opportunity costs 	CSA to support research

Call	Task, Level WP & Area	Task Title & Indicative Coverage	Instrument
Support for Cooperation of Specific Groups (continued)			
FP7-TPT-2008-RTD-1	TPT.2008.8 Horizontal: All modes	<p>Assessing, analysing & defining strategies for realising new Member & Associated States' potentials in transport research</p> <p>To foster regional integration between transport actors (research institutes, companies, SMEs, local 7 regional authorities) to help achieve the European Research Area. Activities include:</p> <ul style="list-style-type: none"> • mapping transport research capacities in new Member States & recent patterns of collaboration • enhancing market uptake of transport results through transfer of technology & know-how to new Member States 	CSA to support research
FP7-SST-2008-RTD-1	SST.2008.6.2 Level 1 Cross Cutting	<p>Stimulation of international cooperation within surface transport</p> <p>Actions to stimulate encourage & facilitate participation of organisations from International Cooperation Partner Countries &/or neighbouring regions in FP7 research. Activities include: information events, networking, roadmaps, surveys, studies, debate forum, workshops & dissemination actions. Aim is to strengthen European competitiveness & contribute to the solution of global problems in surface transport.</p>	CSA to support research
FP7-SST-2008-RTD-1	SST.2008.6.5 Level 1 Cross Cutting	<p>Stimulating international cooperation with Latin American countries in developing a sustainable freight transport system</p> <p>To contribute to External relations policies with Latin America (specifically Argentina & Brazil) through surface transport research focused on co-modality in freight transport & better dissemination of research results. Activities include:</p> <ul style="list-style-type: none"> • identify existing technological solutions for sustainable co-modality in freight transport • survey existing systems, technologies & solutions for freight transport meeting regional & local needs • elaborate a research road map • establish a debate forum • improve dissemination of results 	CSA to support research