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# **Update on the RTD Activities**

## **The IST Programme**

**The 3rd eSafety Plenary Session,  
Brussels, 25 March 2004**



# eSafety for road and air transport - Call1

- **Key Objectives & Breakthroughs**

- To develop, test and assess an **integrated and global approach** to intelligent road vehicles and aircraft which offers higher safety and value added services.

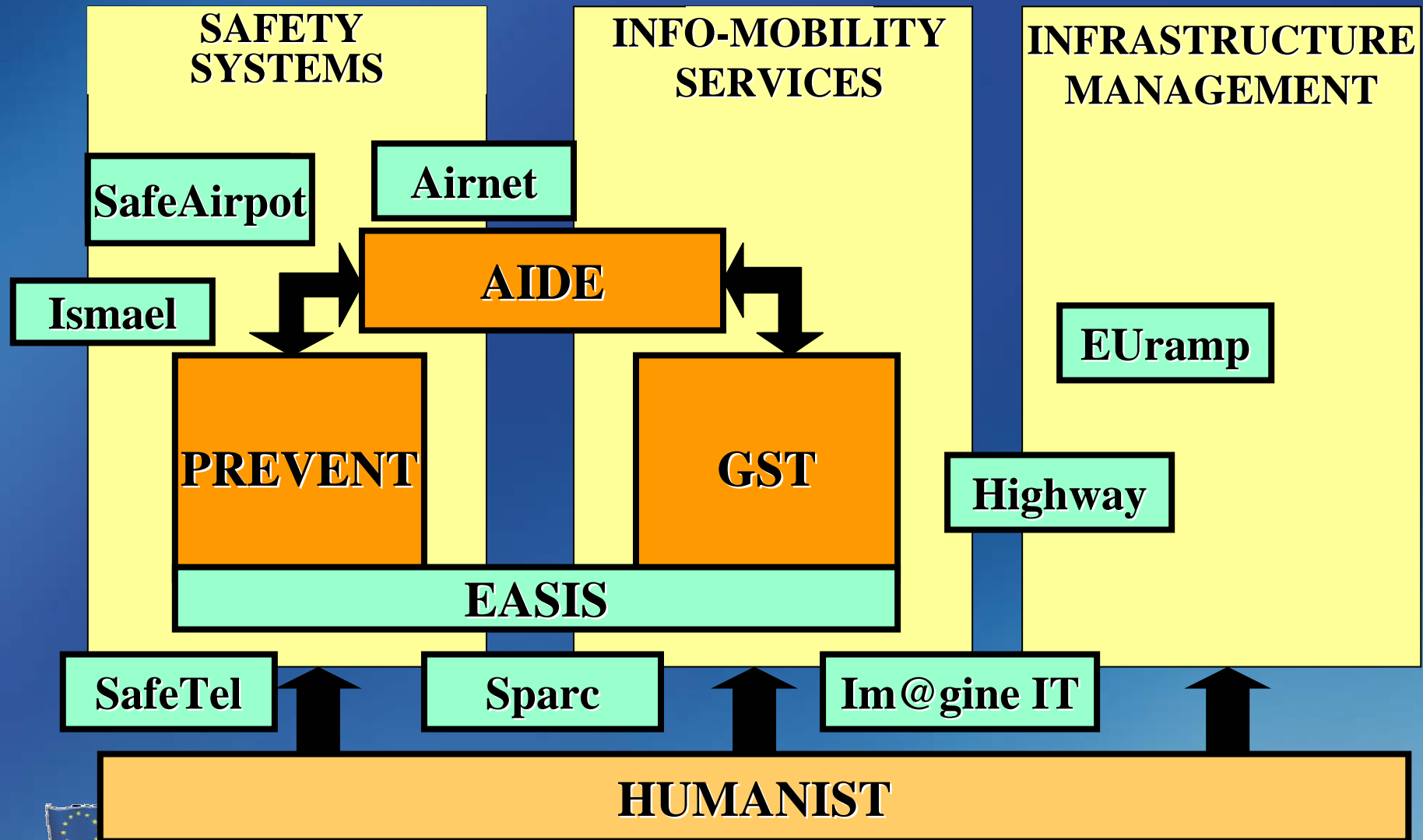
- **Focus**

- Advanced sensors, communications & highly dependable software for **on-board safety**
- Distributed intelligent agents, **secure communications & advanced positioning & mapping technologies** for location-based services
- Vehicle & information infrastructure management systems for safety & efficiency





# RTD - FP6 - eSAFETY:





# **PreVENT (Preventive Safety)**

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- **Started 1.2.2004, duration 4 years**
- **Total budget 55 MEuro,**
- **EC contribution 29.8 Meuro**
- **51 partners from industry, public authorities, RTD institutes and Universities**
- **Will launch a call for new partners in the second phase of the project**





# PreVENT Objectives

- **PreVENT will develop, test and evaluate safety related applications, taking advantage of advanced sensor and communication devices integrated into on-board systems for driver assistance.**
- **Contributes towards rapid market introduction of the safety systems**
- **Links to and co-operates with national, European and international programmes**
- **Supports and is in line with the eSafety initiative**





# AIDE - Integrated Project

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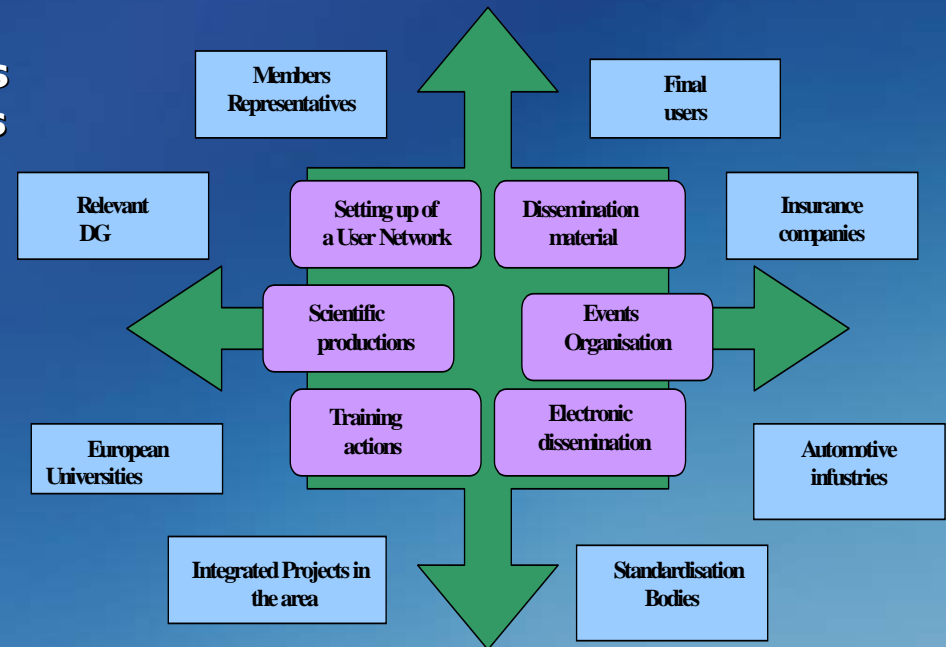
- **Integration of ADAS, IVIS and nomad devices into the driver's environment**
- **Will design, develop and validate a generic Adaptive Driver-Vehicle Interface (AIDE) to:**
  - **maximise efficiency,**
  - **minimise level of workload and distraction,**
  - **enable potential benefits of new in-vehicle technologies & nomad devices without compromising safety.**





# HUMANIST - NoE

- Integrates major research institutes and universities in Europe and JRC, has the support of ECTRI and FERSI
- Focuses on driver behaviour, driver cognitive engineering and user centred design; has strong links with AIDE
- Aims to create an European Virtual Centre, which will allow to:
  - strengthen with potential inputs the R&D by European Industries
  - harmonise the Road Safety and ITS approaches to the societal benefits assessment among the Member States
  - reacts quickly to any new technological development



The 3rd eSafety Forum, 25 March 2004 - 7





# Global System for Telematics (GST)



- An Integrated Project starting 1 March 2004, Co-ordinator: ERTICO
- Total Cost: 21,5 M€, EU Funding: 11,0 M€
- 49 partners
- Continuation of 3GT (Open Platforms) and E-MERGE (eCall)
- 3 subprojects to study the integration of specific applications, such as **safety information channel, post-accident rescue service, and enhanced floating car data**
- 4 subprojects to develop the building blocks for the transition from closed to open systems





## Call 3

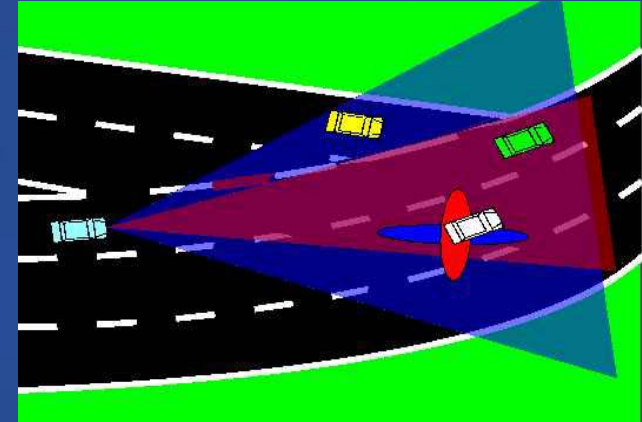
- **European Research Area (ERA) related to coordination of national IST policies and RTD efforts with the information society technologies programme**
- **Objective 5: « to progress towards the achievement of the objectives of a ERA in a given field »**
- **Timetable:**
  - 2.03.2004 = ERA-NET scheme closure date
  - 22/26.03.2004 ERA-NET evaluation
  - 15.04.04 GIR consultations
- **Budget (for all areas): 37 Million Euro**
- **Instruments: CA and SSAs**





## Call 4: Co-operative systems

- Focus in Call 1 gave high priority to In-Vehicle Safety Systems
- As these projects are starting new priorities are emerging
- **Intelligent vehicles** need to be able to link up with each other and exchange information with the **road infrastructure** that will also become more and more intelligent



**Co-operative systems for safety and efficiency (Call 4)**  
**Workprogramme 2005-2006**





# Co-operative systems: A major challenge

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- **Requires simultaneous investments from the industry and the Member States**
- **The start-up problem: Minimum penetration levels in order to benefit**
- **Standardisation in Europe and global harmonisation (e.g. U.S. VII initiative and Japan's AHS)**
- **A major challenge for development and deployment**





# Co-operative systems: Definition

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**Road operators, infrastructure, vehicles, their drivers and other road users will cooperate to deliver the most efficient, safe, secure and comfortable journey.**

**The vehicle-vehicle and vehicle-infrastructure co-operative systems will contribute to these objectives beyond the improvements achievable with stand-alone systems.**





# Key Dates

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- **18.03.2004** meeting with some external experts, draft paper on cooperative systems proposed by C5 + additional papers from experts
- **April/May: Web consultation**
- **19.5.2004** contribution to the work-programme 2005-2006 sent by C5 to participants for comments
- **01.06.2004** final C5 consolidated documents
- **Launch of the call: End of 2004**





# eSafety and national activities (1/2)

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- **National transport research programmes deal with the following research areas**
  - Logistics, freight transport and intermodality
  - **Traffic safety and security**
  - **Intelligent transport systems**
  - Modelling, forecasting and scenario
  - Cleaner and safer vehicles
  - Land use planning and transport





## eSafety and national activities (2/2)

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- **EC and national RTD activities**
  - To include the EU dimension
  - To provide complementary instruments and fundings
  - To organise **the European Research Area**
  - To facilitate the global European Market
- **Member States also co-operate on bilateral and multi-lateral basis**





# Programmes and projects on "Co-Operative Systems" (1/2)

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- **Germany**
  - Invent, Fleet net
- **France**
  - Predit /Arcos
- **Italy**
  - Infonebbia
- **Spain**
  - National programme on eSafety





# Programmes and projects on "Co-operative Systems" (2/2)

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- **Belgium**
  - National programme
- **The Netherlands**
  - Summits, Roads for the Future
- **Sweden**
  - ISA, national and Volvo programmes
- **The United Kingdom**
  - Traffimatics

