



## MITRA

### *Monitoring and Intervention for the TRANSPORTATION of dangerous goods*

The objective of **MITRA** is to prototype a new operational system, based on regional responsibilities, for the electronic identification and monitoring of dangerous goods transportation in Europe.

This concept, derived from the Air Traffic Control domain, aims at providing Civil Security centres with the necessary information enabling intervention teams to react immediately and efficiently in case of an accident, with a maximum of safety.

The active participation of the **end-users** throughout the whole project duration will be a key feature of **MITRA**.

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## Objectives

The objective of the **MITRA** operational system is to provide Civil Security centres with:

- a real-time knowledge of the position and contents of vehicles transporting hazardous goods circulating in their sector of responsibility,
- warning displays in case of dangerous situations : preventive measures,
- crisis management information in case of an accident: associated risks, potential consequences, applicable regulations and protection measures.

**MITRA** will entail co-operation between different European actors: Civil Security authorities, research organisations, industrial companies. The end-users will be actively involved in the project, from the user requirements collection phase to the deployment and validation campaign for operational feedback. They will also be involved in the different project reviews (To+ 4, 7, 16, 21).

Project Acronym: **MITRA**  
Project Reference: **IST-2002-511361**  
Contract Type: **Specific Targeted Research Project (STREP)**  
Start Date: **01/09/2004**  
Duration: **24 months**  
End Date: **31/08/2006**  
Project Cost: **2.822.795 €**  
Project Funding: **1.450.000 €**

## Description of the work

The project will deliver (To+17) a prototype consisting of three User Monitoring Terminals, with the appropriate decision support software modules, together with a Risk-Knowledge platform, containing all information about dangerous goods and propagation models. Deployed in three major Civil Security centres (France, Germany and Spain) for field-trials and a validation campaign, the system will be submitted to real-scale emergency scenarios.

This will enable **MITRA** to contribute to paving the way for the evolution of the European legislation in terms of dangerous goods transportation, through a long-haul dissemination campaign. A Web site will be established at project start for intensive dissemination to users from countries not participating in **MITRA**. Two major workshops will be organised at To+4 (User Workshop) & To+22 (Final Dissemination Workshop).

Deploying **MITRA** in the regional Civil Security Centres in Europe will save many lives among intervention forces and the population, improve the efficiency of the operations by at least 10%, and contribute to the improvement of the interoperability between regional Centres, based on INSPIRE interface requirements.

### Participants:

• M3 SYSTEMS SARL	FRANCE
• ADVANTEAM & PARTNERS SARL	FRANCE
• CENTRO DE OBSERVACION Y TELEDETECCION ESPACIAL SA	SPAIN
• CGX SYSTEMES SAS	FRANCE
• DEIMOS SPACE SL	SPAIN
• DEUTSCHES ZENTRUM FUER LUFT UND RAUMFAHRT EV	GERMANY
• ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS	FRANCE
• INGENIERIA DE SISTEMAS PARA LA DEFENSA DE ESPANA SA	SPAIN
• INSTITUT NATIONAL DE L'ENVIRONNEMENT INDUSTRIEL ET DES RISQUES	FRANCE
• INSTITUT NATIONAL D'ETUDES DE LA SECURITE CIVILE – MINISTERE DE L'INTERIEUR	FRANCE
• ERWIN KAYSER-THREDE GMBH	GERMANY
• MOVINGWORLD KG	GERMANY
• TELEMATICA EK	GERMANY
• UNIVERSITAT POLITECNICA DE CATALUNYA	SPAIN