GEOTRANSMD

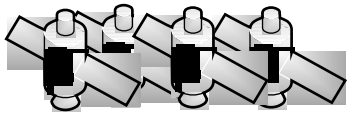
Following up the work of:

VISU-TMD (CETE Bordeaux)

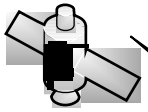
TRANSCONTROL (Toulouse and Bordeaux areas)

GEOFENCEMD (Lyon area)

VISU TMD: How does it work?



GPS/EGNOS/GALILEO



Communication satellite

Operators

PRIVATE ACTORS

Carriers

CONSULTATION PROCESS/DATA ENTRY

GPRS/SMS

Vehicles equipped with beacons

PUBLIC AUTHORITIES TRACKING SERVER

PUBLIC AUTHORITIES PARTNERS

Road Management Control Centres & Motorway Operators

Emergency services (fire, police, etc.)

Administration (town planning, environment)

CONSULTATION

TRANSCONTROL

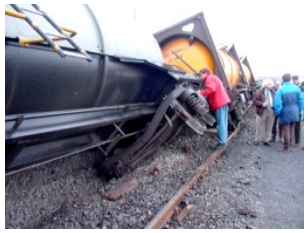
Objectives

- Development:
  - Robust terminals installed on board vehicles (GNSS features + ADR-compliant)
  - Application for Monitoring Transport of Dangerous Goods
    - Precise knowledge of the situation of transport of dangerous goods in a given zone
    - Improvement of decision-making process in case of an intervention:
      - Evaluation of situation & risks
      - Intervention & mitigation measures adapted to the situation

- Experimentation/validation:
  - "Pilot" fleets will be equipped: road, inter-urban, school transport
  - Test campaign in real operational conditions: experience feedback by end-users

TRANSCONTROL

Information confirmed by the first responder



T_0

Alert situation (shock, over-pressure…)

T_1

Accident

$[T_0 ; T_{1+} \cong_{1\ hour}]$

Help for decision-making

Information provided by TRANSCONTROL can be used by usual emergency management chain

$T_{1+\ 30\ mn}$

Usual emergency or crisis management

TRANSCONTROL expertise

Other expertise

GEOFENCEMD

Project deliverables (2012)_

- **Vehicle Demonstrator(s) (heavy duty & distribution):**
  - *On-board system with data base*
  - *V2I Communication devices*
- **Decision Centre Demonstrator:**
  - *DG transport management platform*
  - *Management of real time data, processing, sharing and distribution*
- **Risk management analysis:**
  - *Reactivity, decision management*
  - *Systemic risk management*
  - *Impact on urban planning, transport infrastructure planning*
- **Standards & Regulations**
- **A "Cost-Benefit" assessment for the different actors involved in the proposed systemic solution.**

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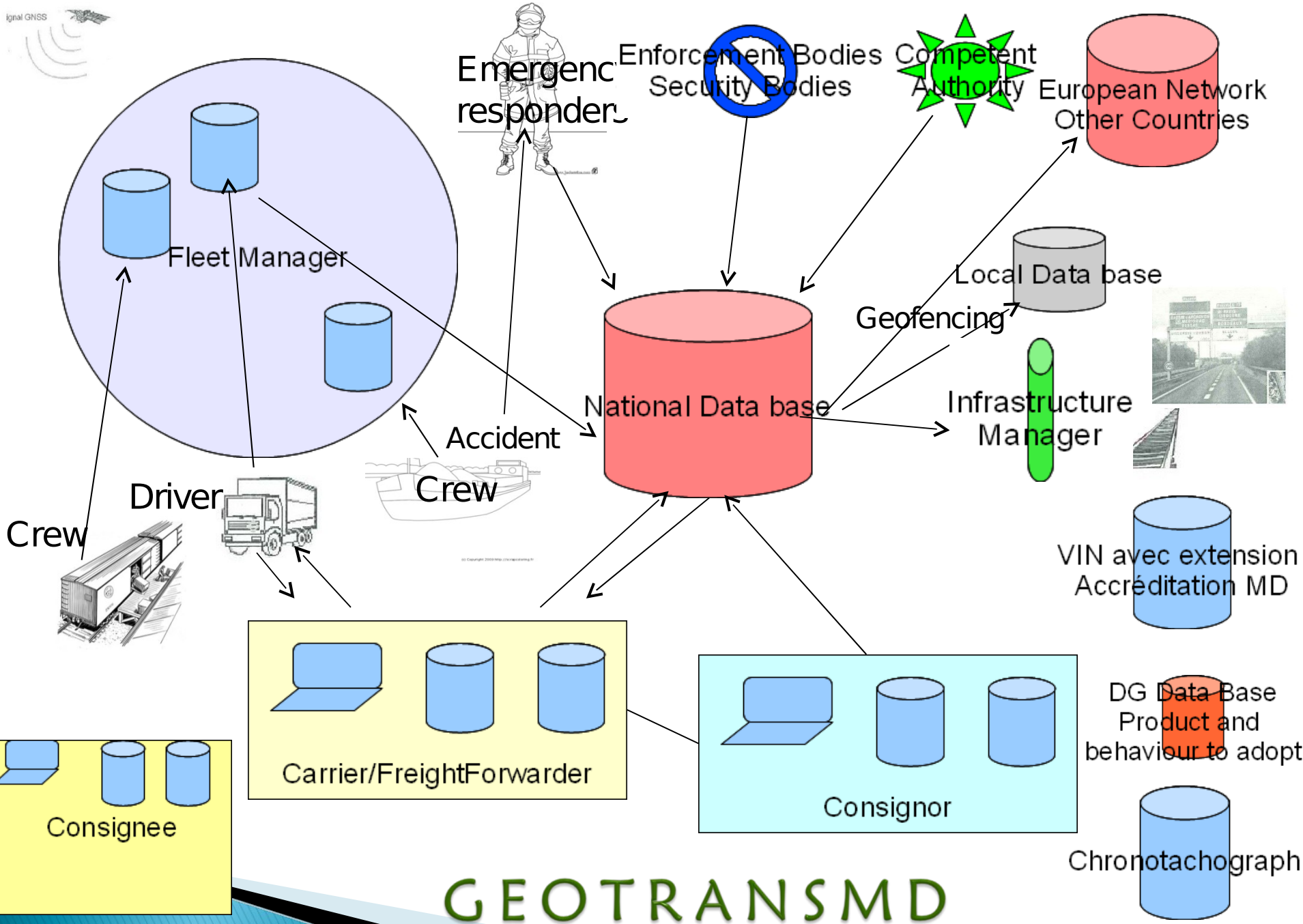
FIRST PARTNERS:

Bordeaux: CETE SO, GLS
Toulouse: ACTIA, M3S, NOVACOM
Lyon: CETE RAA, ARECA, RENAULT TRUCKS
Paris: FDC, ……


Emergenc
responder
Enforcement Bodies
Security Bodies
Competent
Authority
European Network
Other Countries
Fleet Manager
Local Data base
Geofencing
National Data base
Infrastructure
Manager
Accident
Crew
Driver
Crew
VIN avec extension
Accréditation MD
Carrier/FreightForwarder
Consignor
DG Data Base
Product and
behaviour to adopt
Consignee
Chronotachograph

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:

- **WP0: PROJECT MANAGEMENT**
  - French coordination
  - Coordination with German project
  - Coordination with works of the UN Telematics Working Group

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- **WP 1: STUDIES**
  - Constraints
  - On-going standardization
  - Economic model
  - Possible business plans

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- **WP2: PRODUCT SPECIFICATIONS**
  - Needs
  - Detailed specifications
  - Specifications of material products, software, communication for: Platform architecture, On board unit, centralised data base, XML exchange, Access software for actors, Access software for control authorities, statistics

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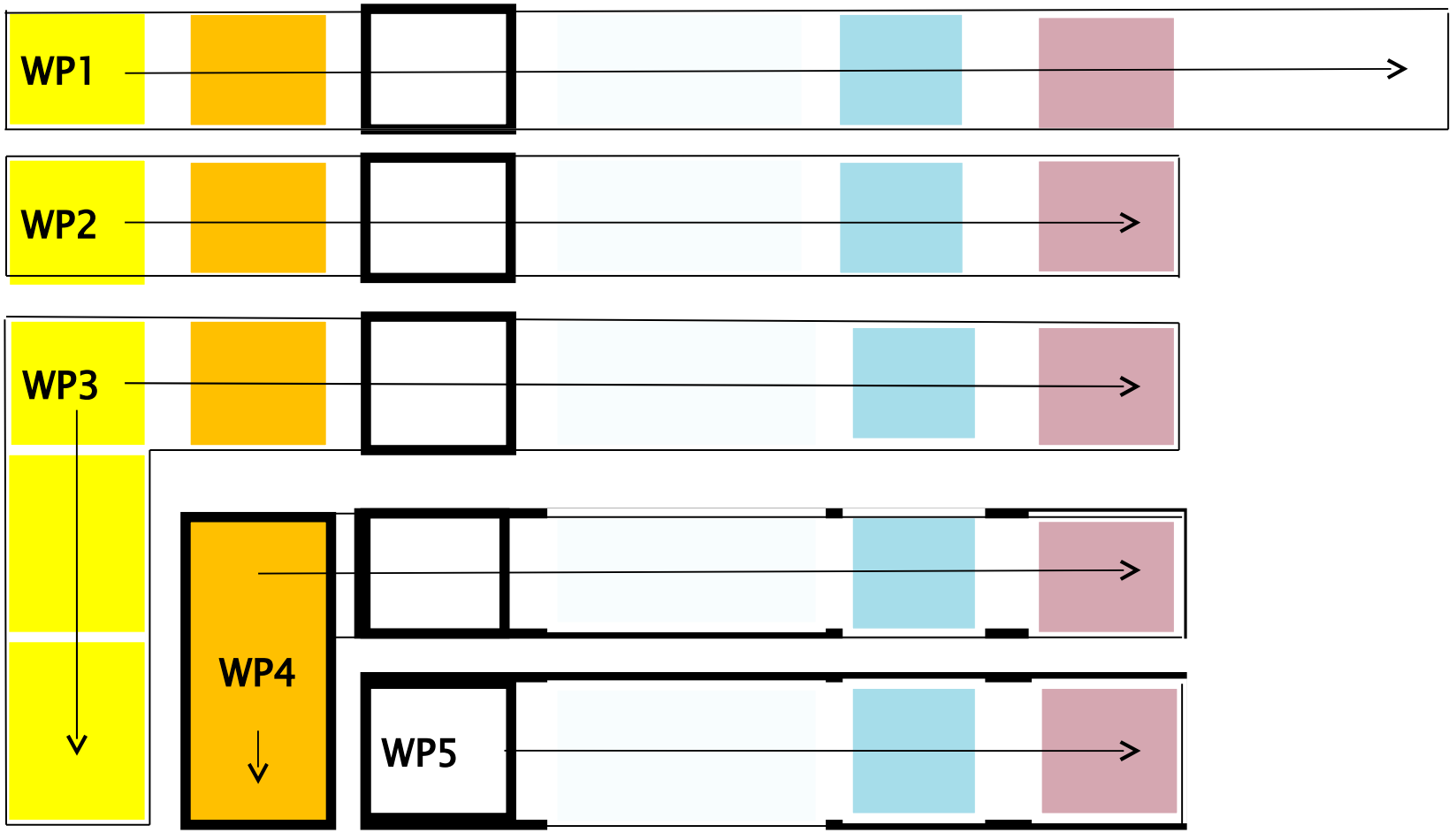
- **WP 3: PRODUCTS DEVELOPMENT**
- **WP 4: PROTOTYPES, FIELD TESTS, EVALUATION**
- **WP 5: SERIAL PRODUCTION**
- **WP 6: COMMUNICATION AND DISSEMINATION**

WP0: Project Management



WP6: Communication & Dissemination

XML Platform Architecture | Database | Statistics | Actors' software | Other software | OBU

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Thank you for
your kind attention