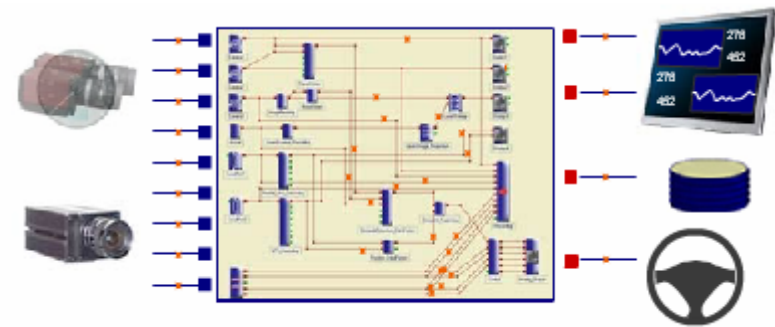


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RTMaps

*Real Time, Multisensor,
Advanced Prototyping Software*



References

Prestigious industries and laboratories...

Private Sector, industries
Public Sector, research laboratories



Des projets d'envergure

Nationals and Europeans...

Intempora is partner of many important research projects.



REACT, Optimizing Traffic and Safety



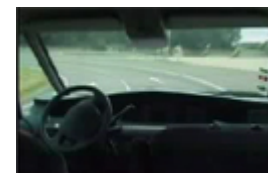
DOTMOBIL, Mobile Robot



PUVAME, Protection of Vulnerable Users



ARCOS, Reduction of Accidents



IV2002, Intelligent Vehicle and lateral control



Micado, Driver Assistance



CARSENSE, Perception of the environnement



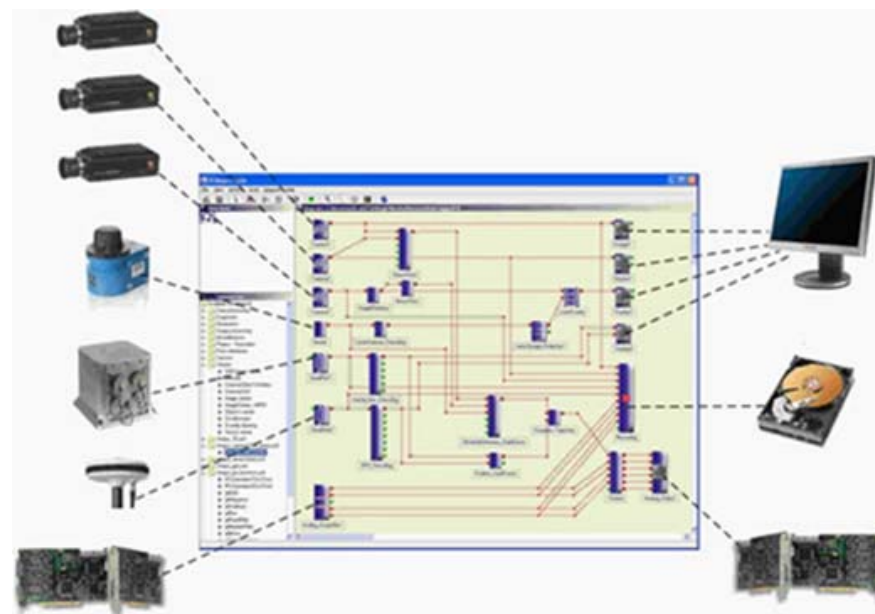
What is ^{RT}Maps ?

Real Time Multisensor Advanced Prototyping Software

A prototyping and data acquisition software, multisensors, multisources and Real Time.

A modern tool, powerfull, evolutionary, simple of use.

It allows considerable savings of time and means.



Real Time Multisensor Advanced Prototyping Software

Some key words...

Prototype :

It allows to test the validity of a concept before its production. These tests considerably limitates the required resources.

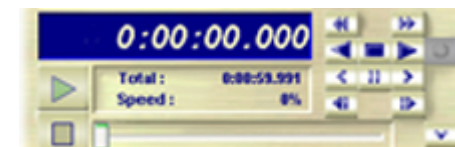


Multisensor :

^{RT}Maps accepts any data type and information. Any sensor can be interfaced.

Real Time :

The sensors data synchronization allows to reconstitute and to analyze events exactly such as they happened.



RTMaps, which uses ?

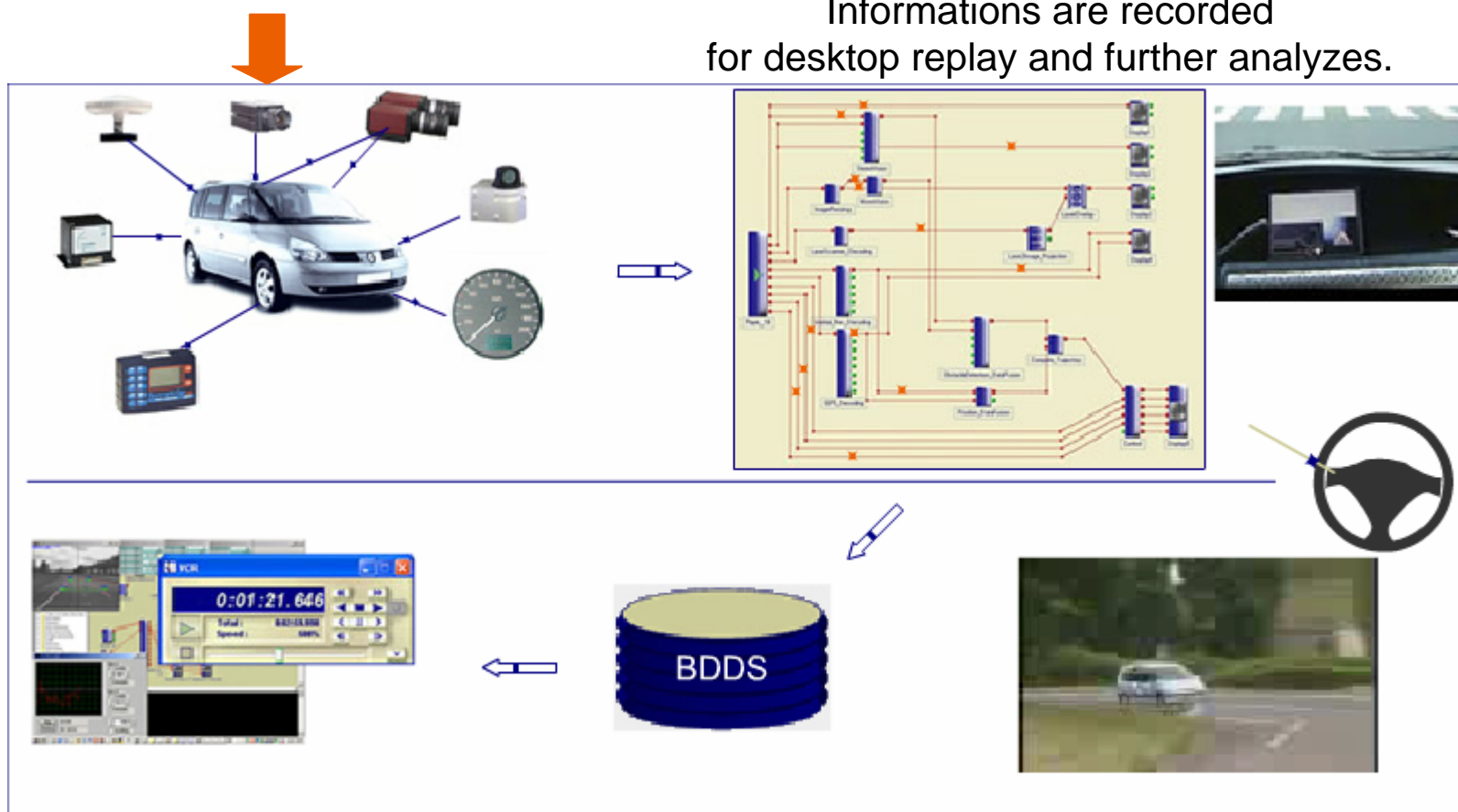
Rapid Demonstration...

Any type of sensor can be connected to RTMaps.

RTMaps acquires and processes all the data.

Controls are sent to the actuators.

Informations are recorded for desktop replay and further analyzes.

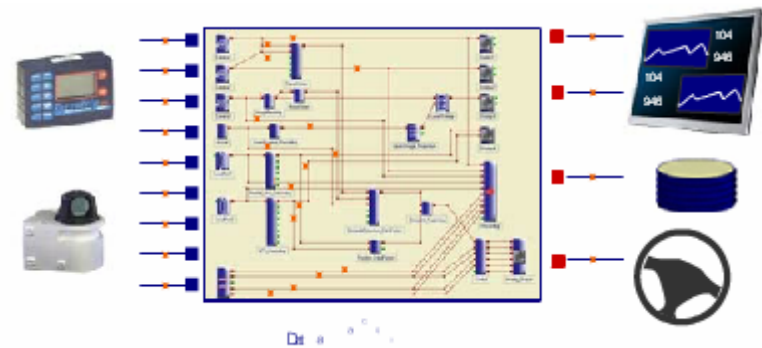




RTMaps

*Real Time, Multisensor,
Advanced Prototyping Software*

Have a good *real time*...



Some examples

Various achievements...

Perception of reality - Data Fusion

Ergonomics - Behavior analyzes

Architecture - 3D Reconstruction

Medicine - Gestural Data Base



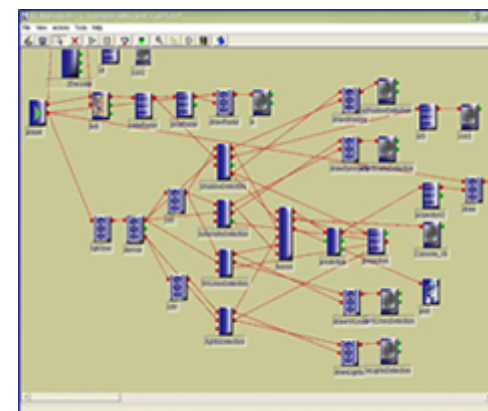
Perception of reality

Data Fusion...

Many sensors.

Various algorithms.

Reliable and optimized results.



Fusion radar+vision

Radar

Symétrie

stop

play



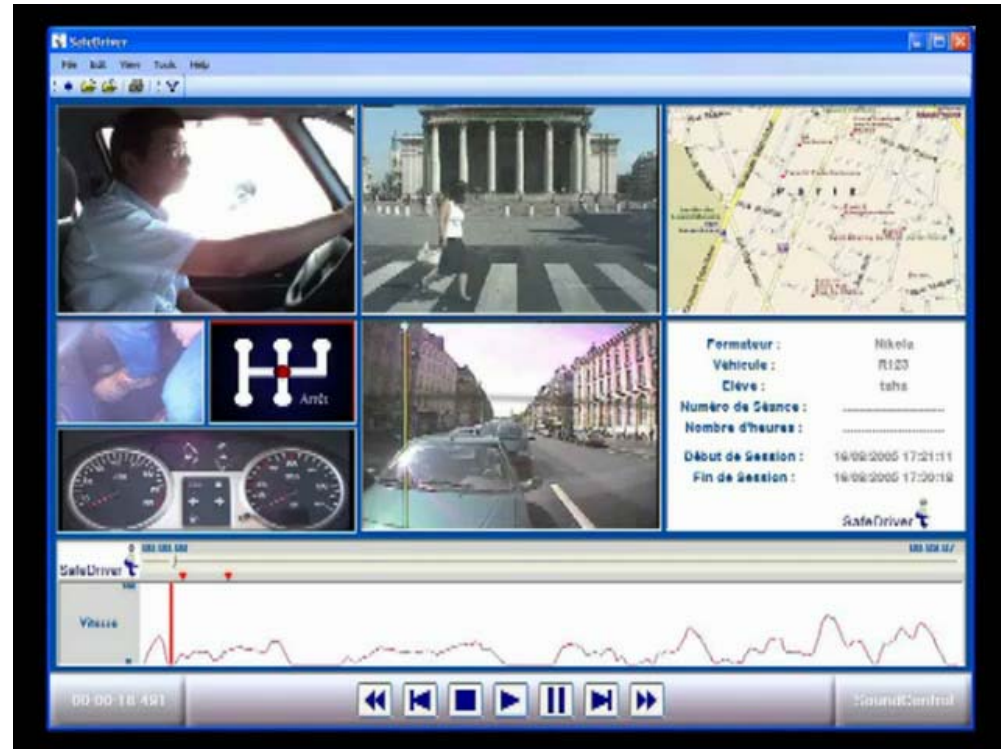
Various sensors allow the fusion of different information to optimize the application results.



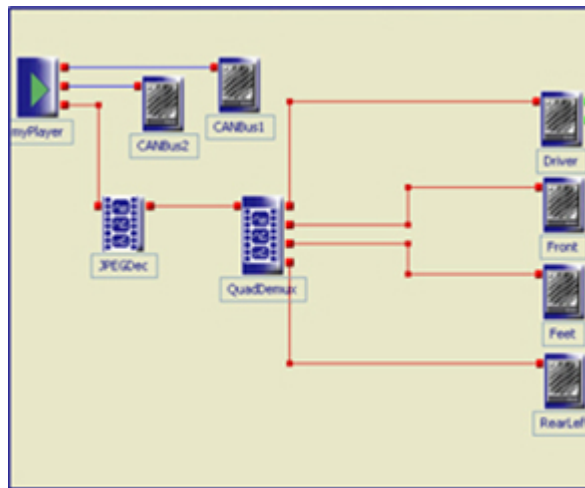
Ergonomics

Behavior analyzes...

Road safety,
A current concern.



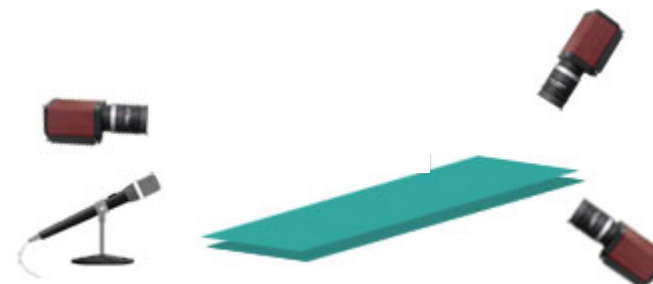
The SafeDriver software has been developed on top of the ^{RT}Maps engine layer.



Medicine - Osteopathy

Gestural Data Bases

Several cameras associated with various sensors (cutaneous pressure, patient pulse...).



Once the scene has been recorded, it can be consulted and transmitted at any times.

Intempora thanks Dr **Gilles Wilmouth**, osteopath, for his help in the conception and realization of this demonstration.



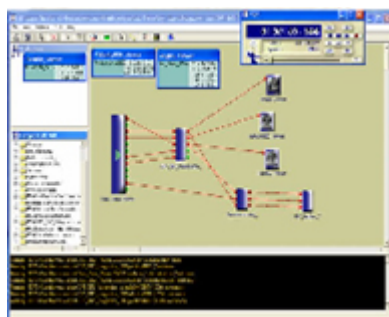
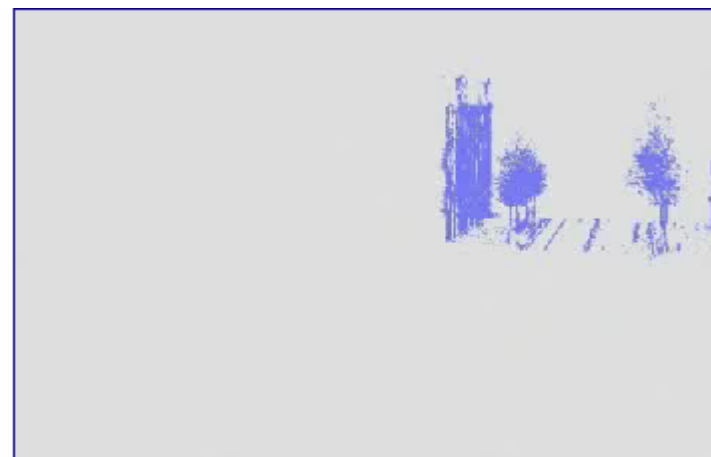
Architecture

3D Reconstruction...

Sensors locate the vehicle position in an urban lane.

The laser beam hits the building as it passes.

The points « bands » allow the reconstruction of the buildings, in Real Time.



The ^{RT}Maps diagram



The LARA vehicle from Ecole des Mines, with its laser telemeter

