



COM2REACT
COoperative CoMmunication System
TO Enhanced Safety And EffiCiency
In European Road Transport

**Project Presentation
Paris, 26th October 2007**

Project Overview

**Dr. Chanan Gabay
Motorola Israel**



COM2REACT Partners



MOTOROLA

V2C Communication



ARTIC

Project Management



TRANSVER

VSC & Traffic Model



VT-TUM

Traffic Simulation &
Hazard Assessment Model



INRIA

Networking & Experiment



ARMINES

Sensors & Experiment



EVERIS

Business Model



In Car System Support



Telefónica – I+D

V2V Communication System



NAVTEQ

Digital Map & Map-Matching



INTEMPORA

In Car SW Integration



Sphericon

Driver Alertness Sensor



Jerusalem Transportation

User Needs Definition

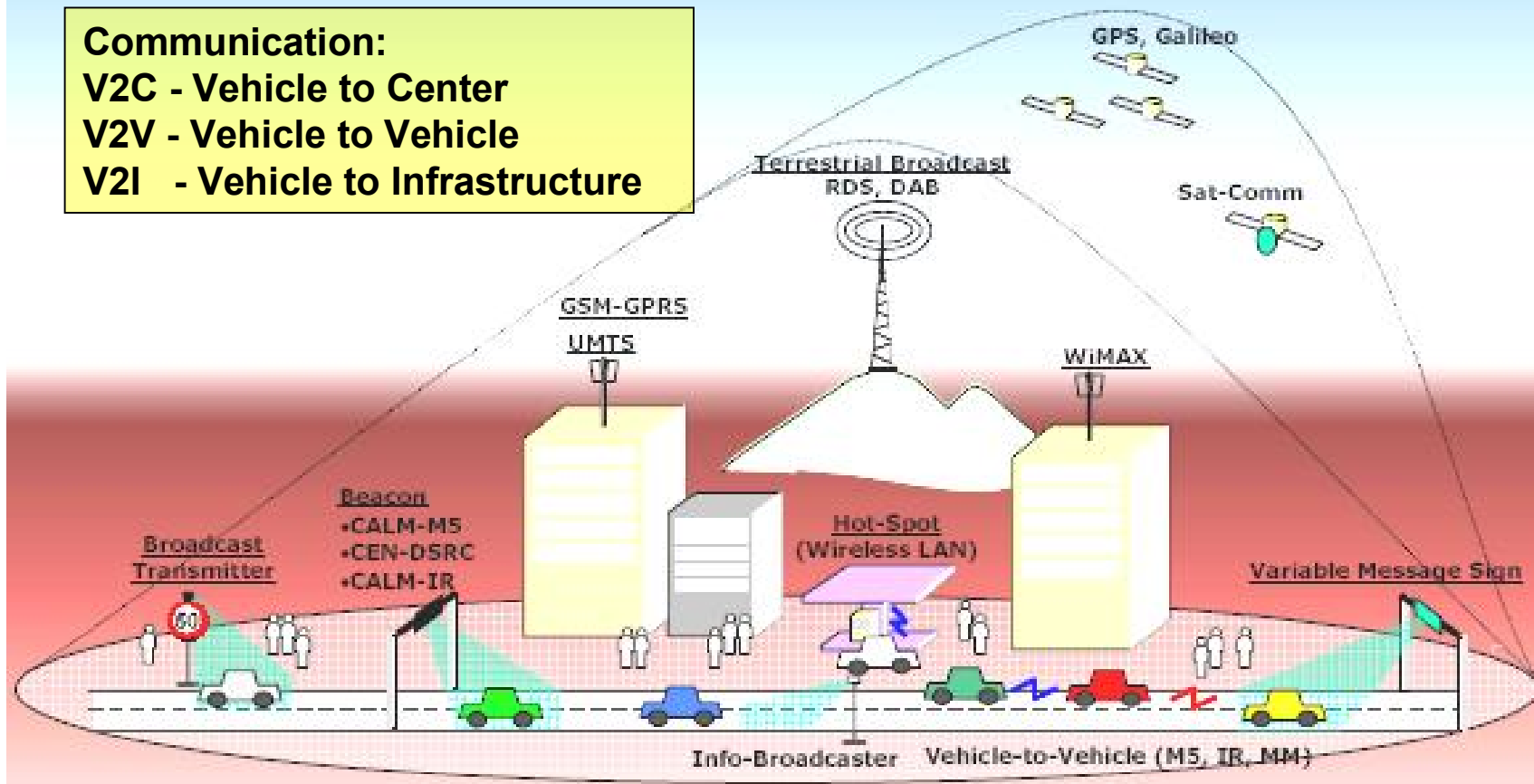
ITS – Intelligent Transportation Systems

Communication:

V2C - Vehicle to Center

V2V - Vehicle to Vehicle

V2I - Vehicle to Infrastructure

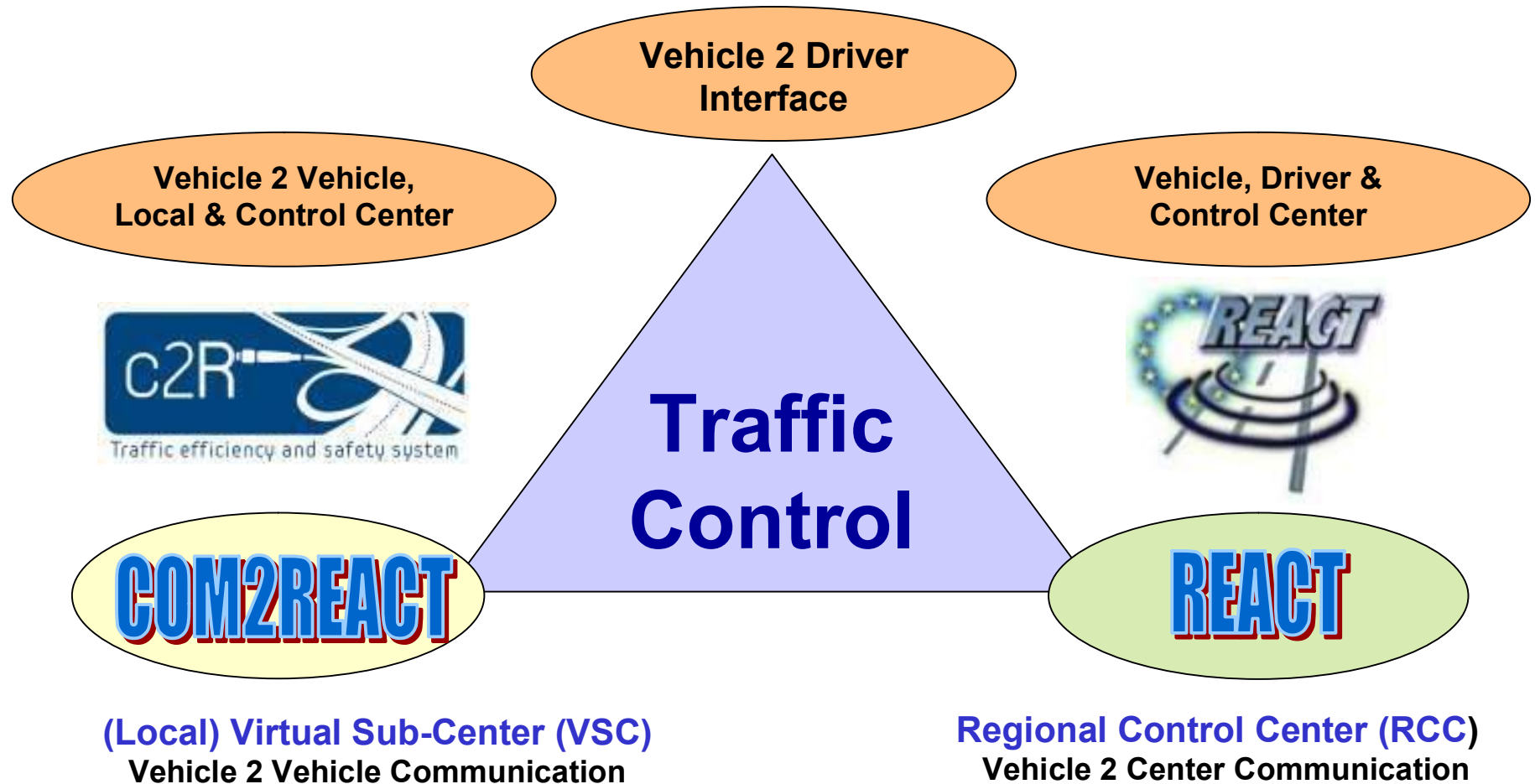


Vision: ITS technology improve safety by managing traffic
Within the same road infrastructure

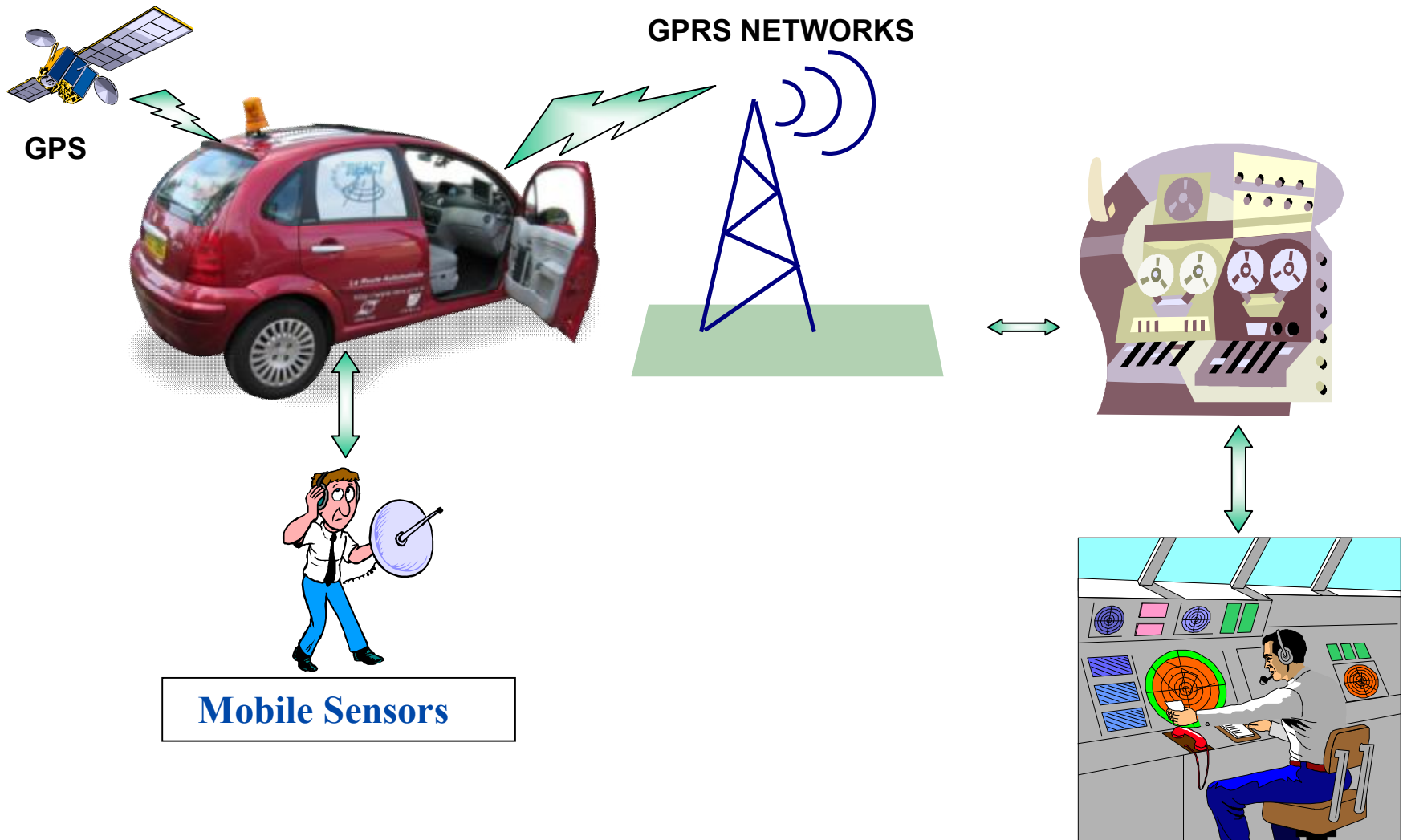
C2R Future is in M2M Networking



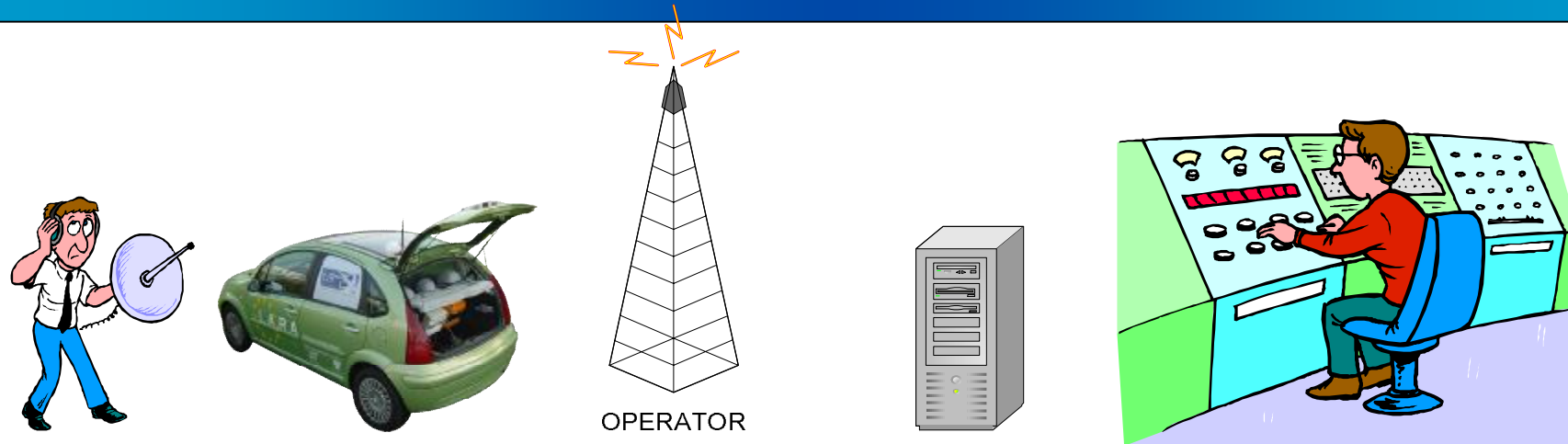
Traffic Management Models



Road and Environment Mobile Sensors



Data Flow from Vehicle to Center



Mobile Sensors

Data Capture, Analysis, Store & Forward

Communication

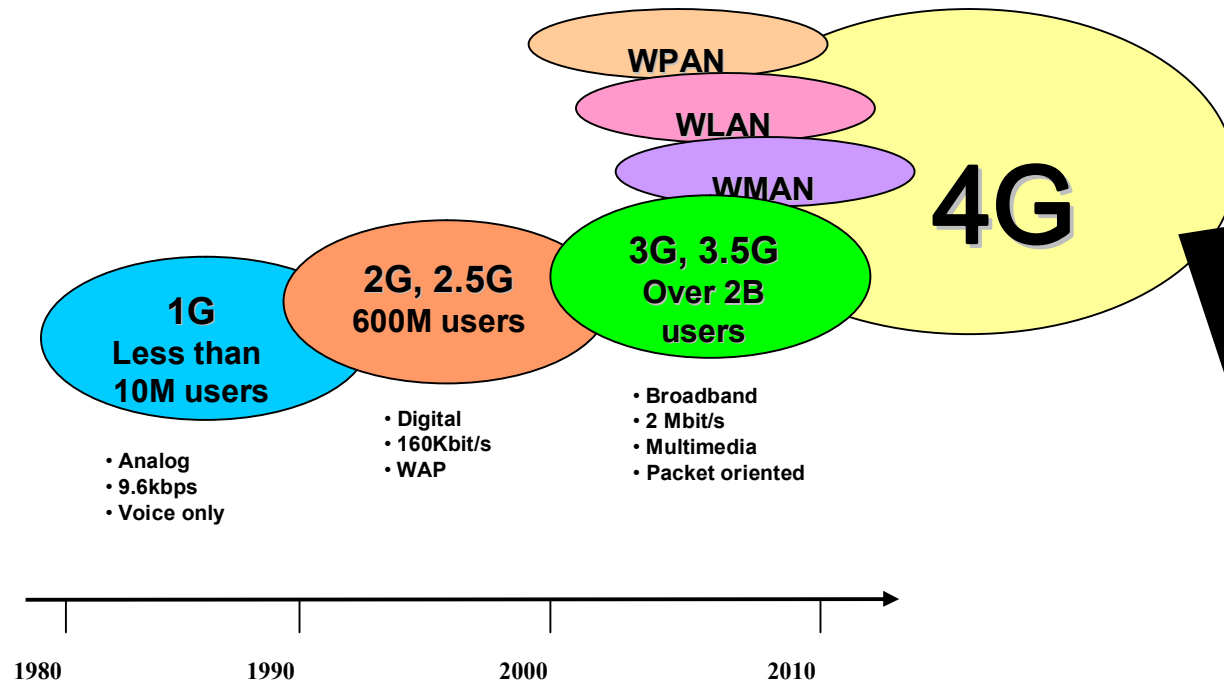
Data, Network Management

Traffic Management

Service Provider

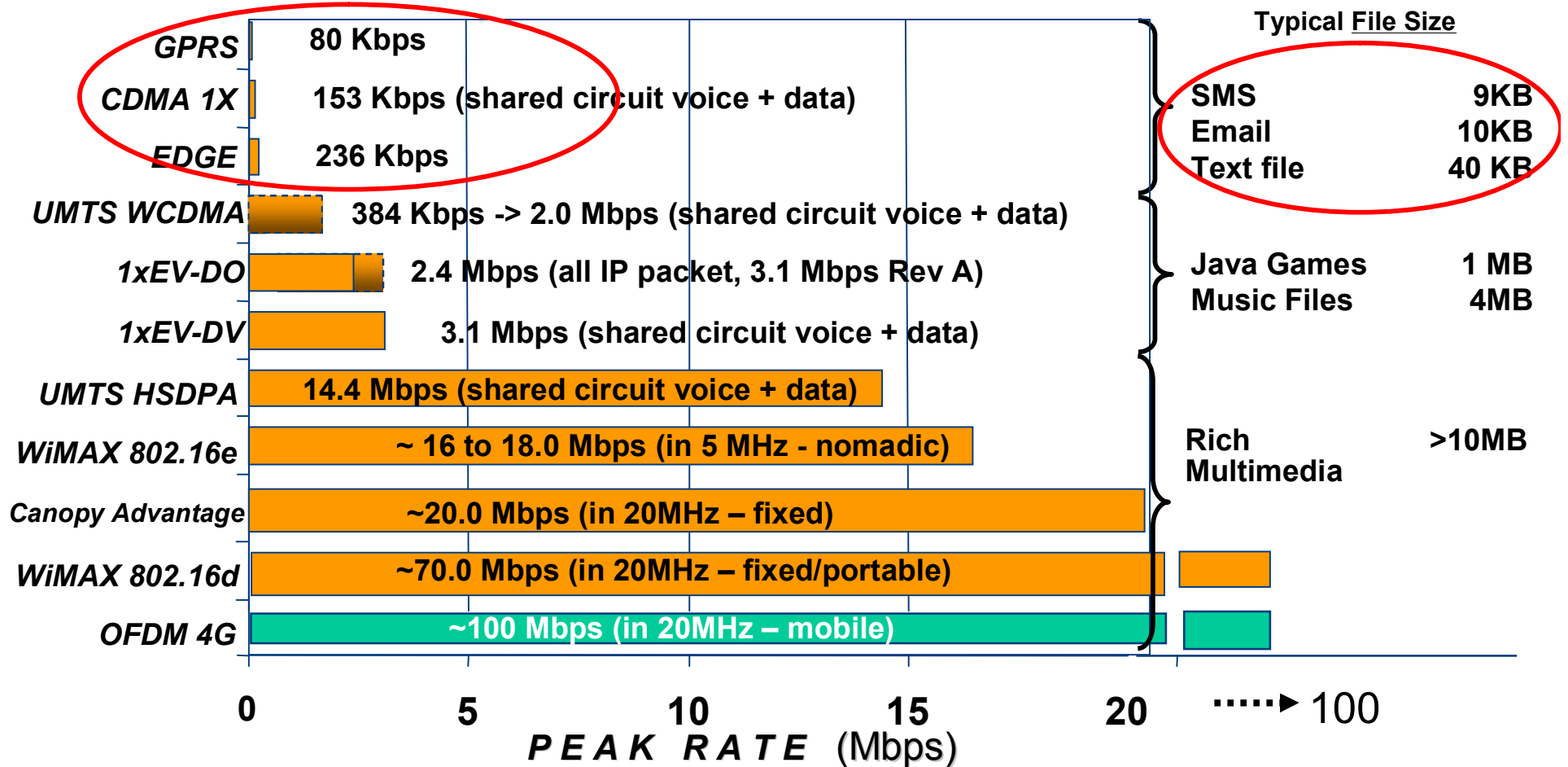


The Wireless Evolution



What is the optimal technology to be selected ?

V2C Application Needs



C2R – Communication Network

V2C - Vehicle to Center & V2V - Vehicle to Vehicle

MOTOROLA

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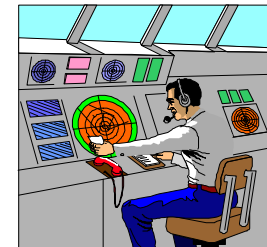
In the Auto
At Work
Out in the World
At Home

Delivering seamless mobility to the M2M world

motorola.com/m2m

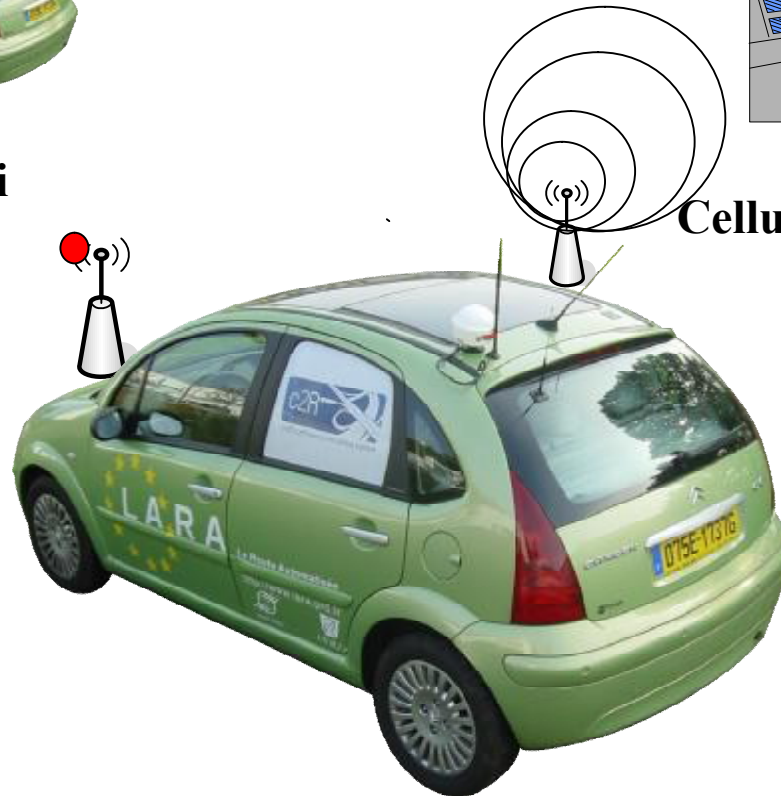


V2C



WiFi

Cellular



Muni-WiFi – next to the door

▶ Mesh and Muni Wi-Fi are expanding Wi-Fi's reach



- Lots of high-profile announcements
 - Philadelphia, London, Chicago, San Francisco, Taipei
 - Variety of smaller scale deployments in place today
- Enabling coverage from large campus deployments to cities
- Various pricing models in play
- This will be an interesting space to watch



By 2010, Muni-Wi-Fi networks will cover 126,000 sq. mi.

Seamless Mobility Challenge

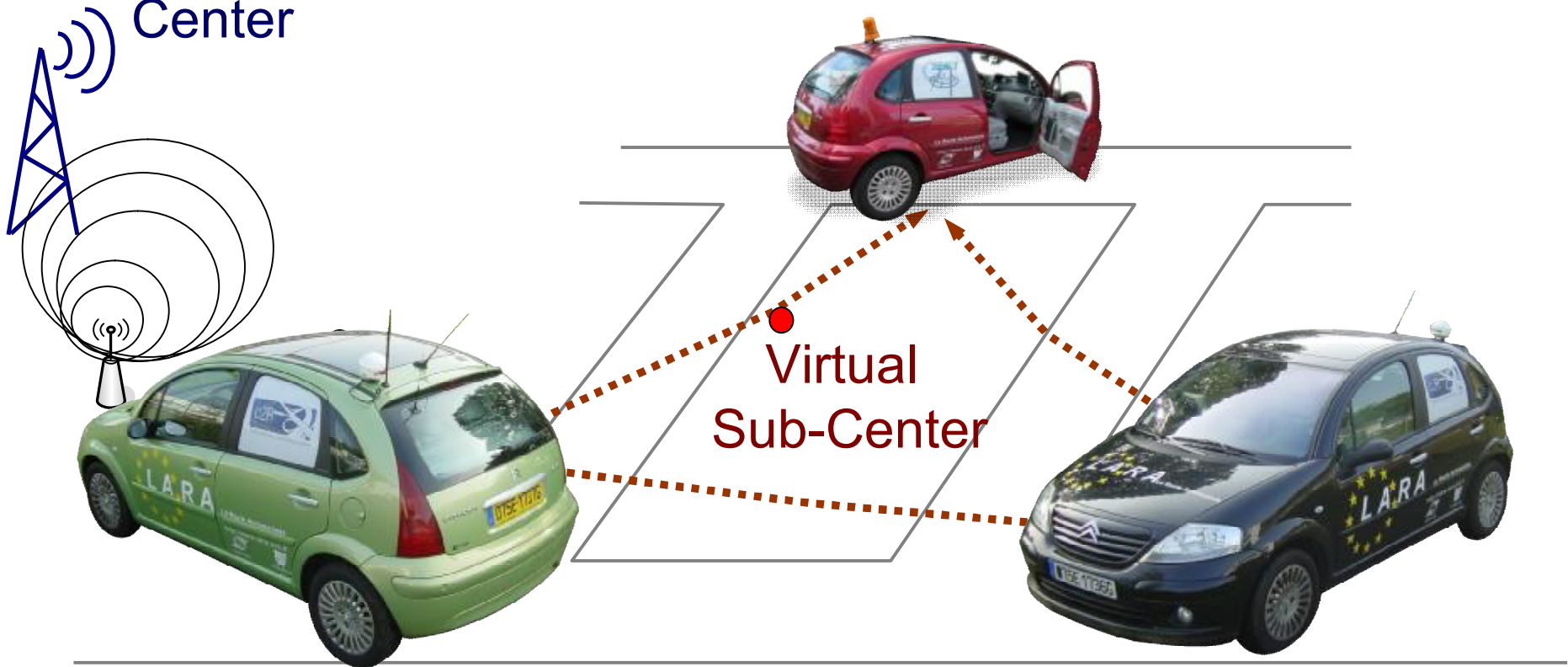


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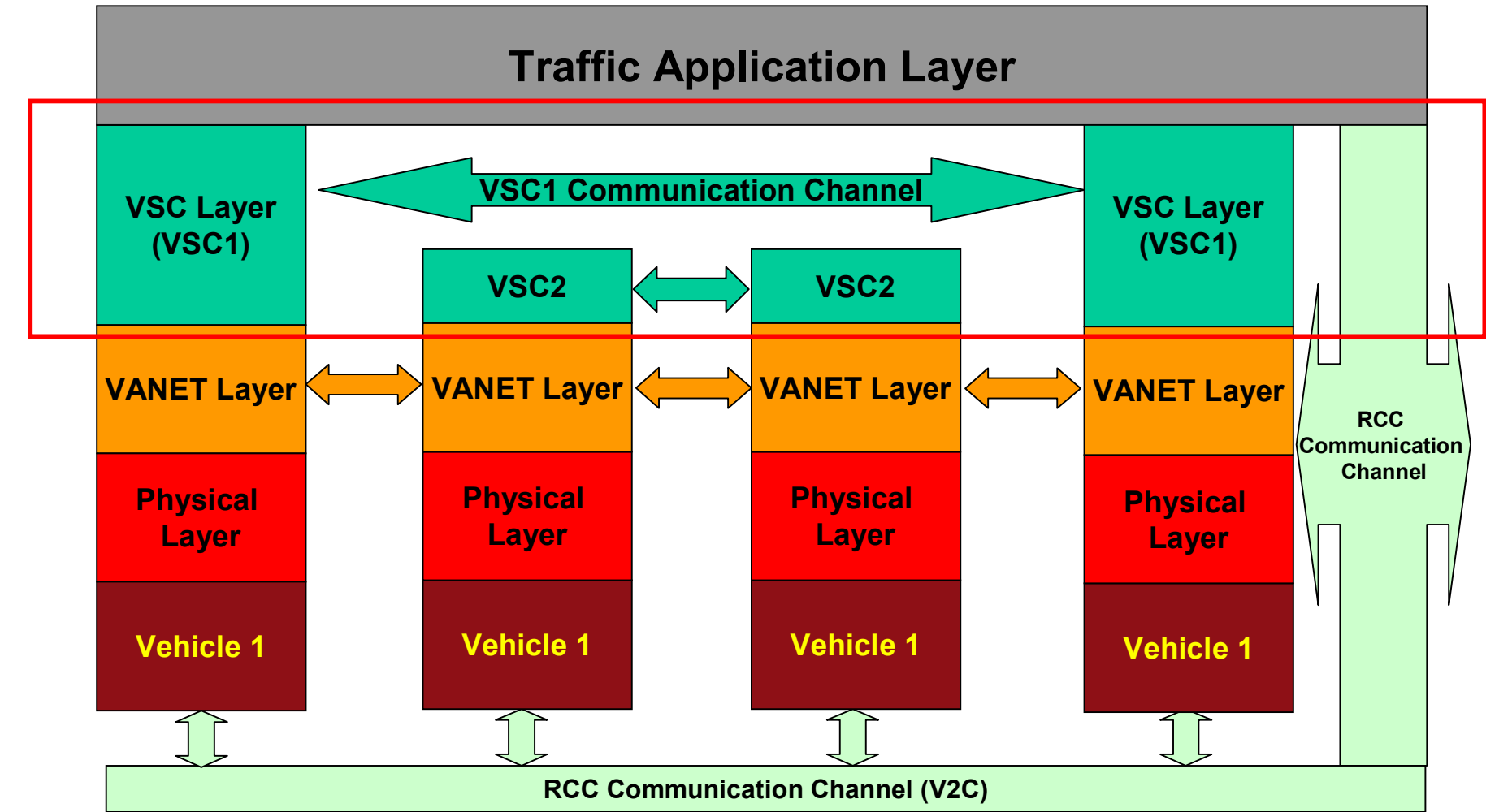
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VSC – Virtual Sub-Center

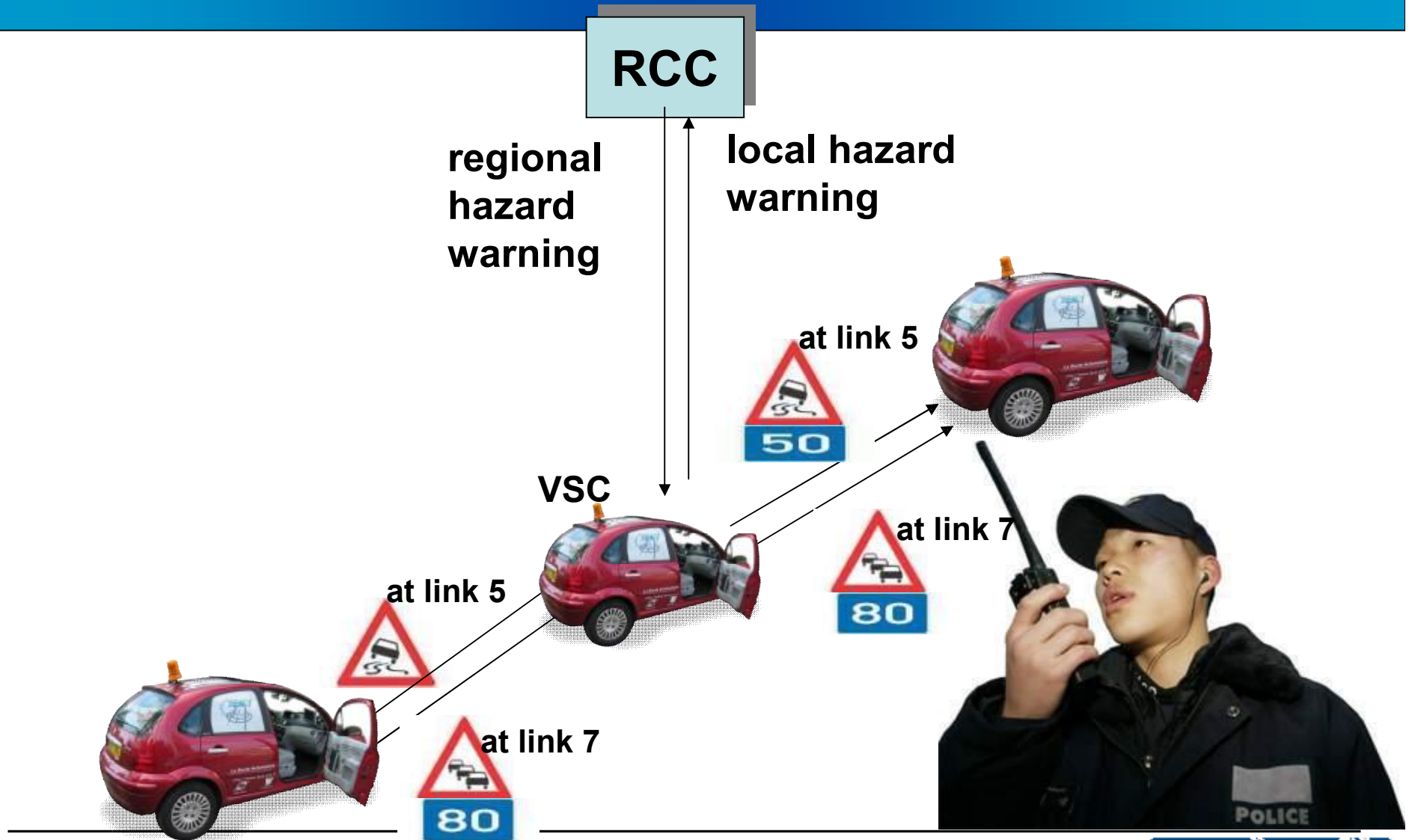
Regional Control
Center



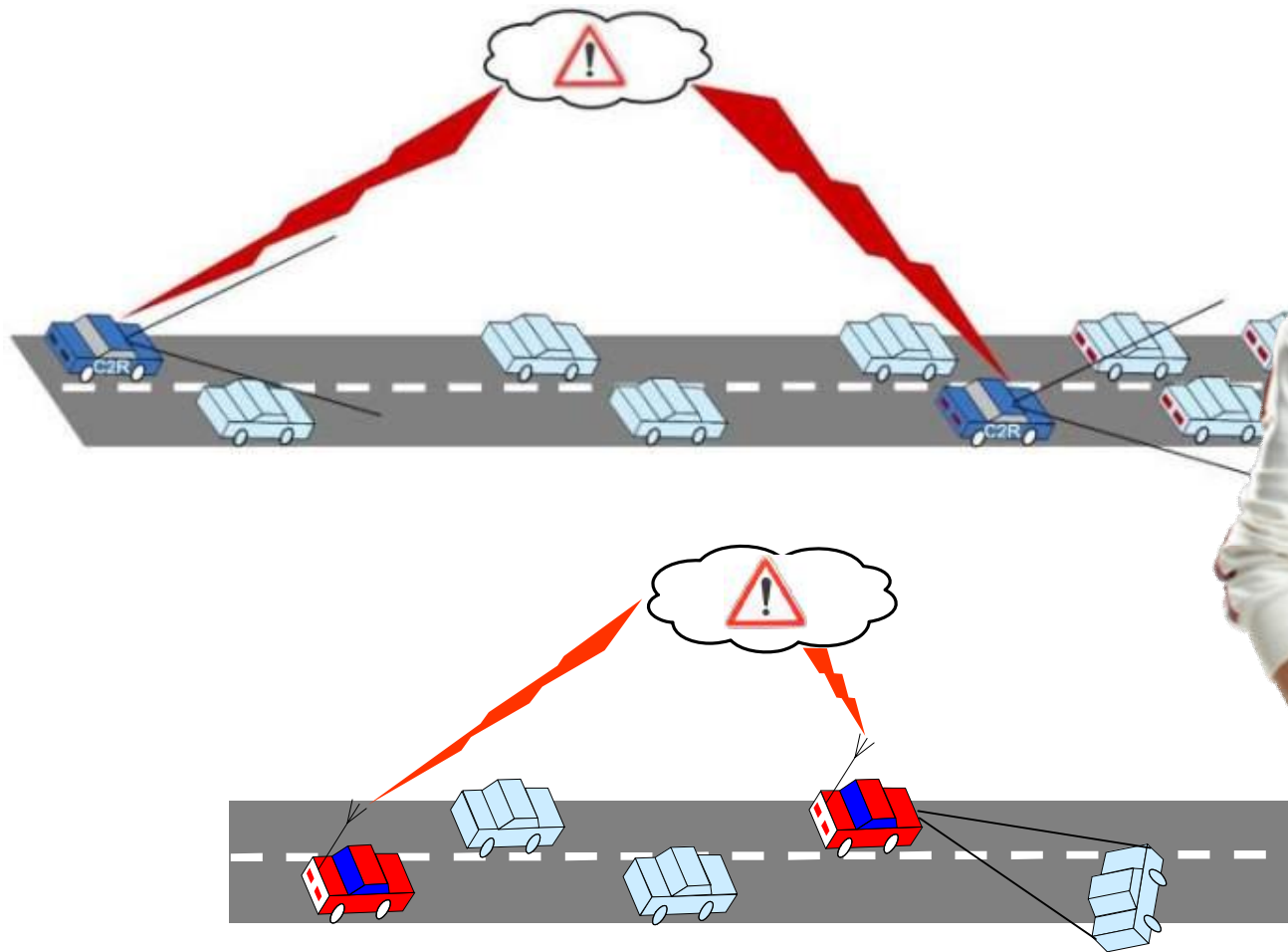
C2R System Layers



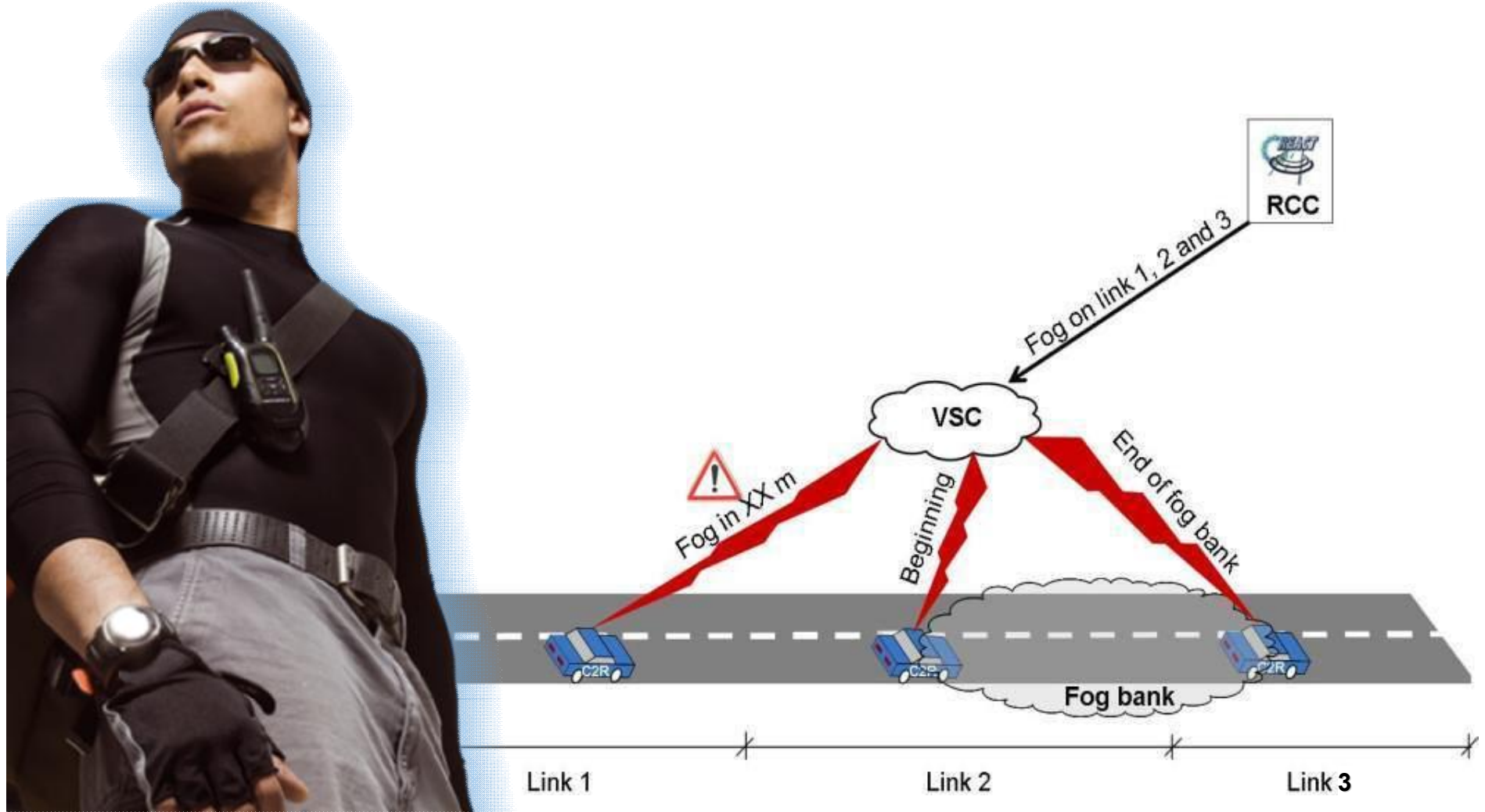
Traffic flow Control



Collision warning



V2V + V2C: Environmental monitoring & prediction





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Thank You

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Agenda

09:30 - 09:45	Dr. Arnaud de La Fortelle - Welcome/Greetings
09:45 - 10:00	Dr. Chanan Gabay - Project overview
10:00 - 10:20	Dr. Eleonora Mincheva - VSC concept
10:20 - 10:40	Dr. Arnaud de La Fortelle - VSC technology
10:40 - 11:00	Prof. Fritz Busch - VSC traffic efficiency & safety impact
11:00 - 11:15	Prof. Claude Lurgeau - Technological achievements
11:15 - 11:30	Cesar Moro - C2R Business model
11:30 - 13:00	On-site Exhibition demonstration & Refreshments