



Foresight, Molise

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WP3

PRIORITY RTD OBJECTIVES FOR JAP INPUTS

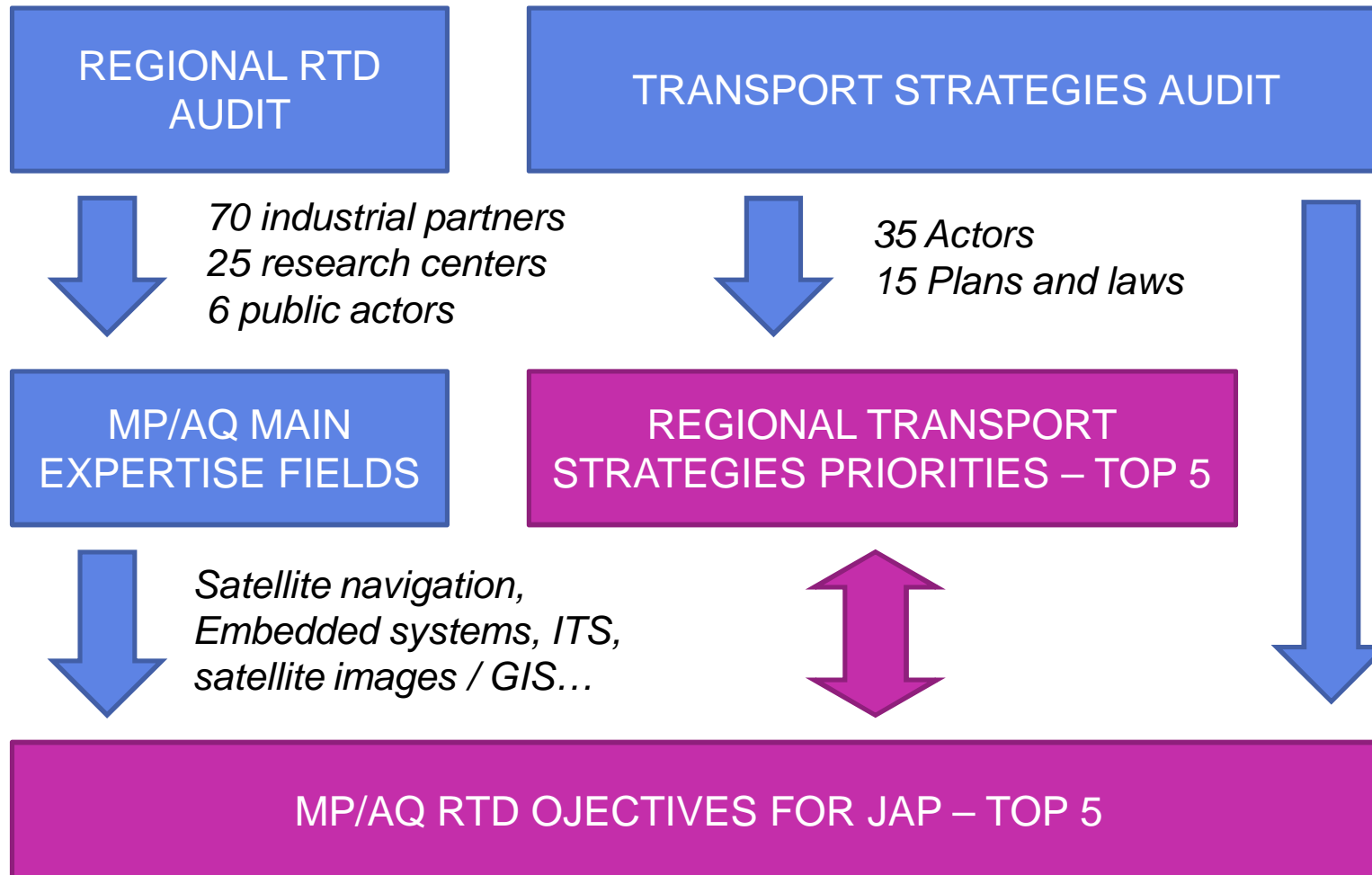
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INTRODUCTION





MP/AQ MAIN RTD OBJECTIVE FOR JAP INPUTS



1. **Development of cooperative systems (M2M, V2V, V2I ...) for travel, traffic and air quality information services and for security issues**
2. **Indoor and outdoor positioning (GNSS, hybridization methods, precise localization, indoor/outdoor transition ...) for transport uses**
3. **Modeling, management and reliability estimates of passenger flows data (all modes: car, pedestrian, bicycle ...)**
4. **UAV applications: traffic and air quality real time monitoring, control of transport infrastructures**
5. **Satellite image processing and GIS to provide data for transport and territorial planning**



MP/AQ MAIN RLA OBJECTIVE FOR JAP INPUTS



- 1. Access to traveler information and traffic information** (real time, continuity, reliable, user friendly, multimodal and in two direction: information to users to information)
- 2. Development of common data services:** unique ticketing, interoperability of different data
- 3. Development of peoples and goods transport's inter-modality**
- 4. Optimization of the use of the current networks and regulation of cars and heavy goods vehicles** (ride shares, restriction of vehicles movements on some areas for some period of time...)
- 5. Development of cooperation between triple helix actors** toward more flexible transport managing



RTD OBJECTIVE : DEVELOPMENT OF COOPERATIVE SYSTEMS



RTD OBJECTIVE	RLA transport priority	Horizon 2020, national or regional strategic objectives	Examples in the Regions MP-AQUI
<p>Development of cooperative systems:</p> <p>M2M, V2V, V2I ... for travel ,traffic and air quality information services and for security issues</p>	<p>Access to traveler information and traffic information</p> <p>Development of common data services</p> <p>Development of peoples and goods transport's inter-modality</p> <p>Development of cooperation between triple helix actors toward more flexible transport managing</p>	<p>ITS directive</p> <p>Grenelle laws</p> <p>Satellite-based applications plan</p> <p>Sustainable mobility</p> <p>Smart Cities</p> <p>Urban Europe</p>	<p>Innovative and world competitiveness telecom network dedicated to M2M : Sigfox technology</p> <p>V2I technologies for sensing</p> <p>Radar expertise, IMS...</p> <p>CETE SO: Alienor</p> <p>Different European project: Drive C2X, compaas4D...</p> <p>smartphone applications: Betomorrow, Wopata, Mobigis..</p>



OBJECTIVE : INDOOR AND OUTDOOR POSITIONING FOR TRANSPORT USES



RTD OBJECTIVE	RLA TRANSPORT PRIORITY	HORIZON 2020, NATIONAL OR REGIONAL STRATEGIC OBJECTIVES	EXAMPLES IN THE REGIONS MP-AQUI
<p>Indoor and outdoor positioning</p> <p>GNSS, hybridization methods, precise localization, indoor/outdoor transition ...) for transport uses</p>	<p>Access to traveler information and traffic information</p> <p>Optimization of the use of the current networks and regulation of cars and heavy goods vehicles</p>	<p>ITS Directive</p> <p>Grenelle laws</p> <p>GSA reports</p> <p>Satellite applications plans of the French Ministry of Transportation</p> <p>Urban Monility Plans</p> <p>Territorial Coherence Scheme</p> <p>Ecotax for Heavy transports</p>	<p>Guide, Egnos</p> <p>TeSa, ENAC, ISAE,</p> <p>SMEs know how in</p> <p>GNSS applications: emergency management, mobility apps.: BINAUR, FILONASS, : ULTRA, Navig...</p> <p>Indoor Positioning: PoleStar, Insiteo.</p> <p>Living labs in Bdx</p>



RTD OBJECTIVE : MODELING, MANAGEMENT AND RELIABILITY ESTIMATES OF PASSENGER FLOWS DATA



RTD OBJECTIVE	RLA TRANSPORT PRIORITY	HORIZON 2020, NATIONAL OR REGIONAL STRATEGIC OBJECTIVES	EXAMPLES IN THE REGIONS MP-AQUI
<p>Modeling, management and reliability estimates of passenger flows data</p> <p>all modes: car, pedestrian, bicycle ...</p>	<p>Access to traveler information and traffic information</p> <p>Optimization of the use of the current networks and regulation of cars and heavy goods vehicles</p> <p>Development of cooperation between triple helix actors toward more flexible transport managing</p>	<p>Grenelle Laws</p> <p>Smart cities</p> <p>Urban Europe</p> <p>EU strategies in airquality</p>	<p>Modelling capacities of laboratories : ONERA / DERA...</p> <p>Innovative ways of modelling flows and collective intelligence :</p> <p>CRCA : cognition laboratory, individual behavior modeling and prediction in crowd environment</p> <p>SpikeNet, Mobigis</p>



RTD OBJECTIVE : UAV APPLICATIONS FOR MONITORING



RTD OBJECTIVE	RLA TRANSPORT PRIORITY	HORIZON 2020, NATIONAL OR REGIONAL STRATEGIC OBJECTIVES	EXAMPLES IN THE REGIONS MP-AQUI
<p>UAV applications:</p> <p>traffic and air quality real time monitoring, control of the state of infrastructure</p>	<p>Access to traveler information and traffic information</p> <p>Optimization of the use of the current networks and regulation of cars and heavy goods vehicles</p>	<p>Grenelle Laws</p> <p>Urban Europe,</p> <p>Smart specialisation,</p> <p>ITS</p> <p>Smart Cities</p>	<p>Several companies and research centres specialist in this domain:</p> <p>Fly-n-sense: project of air quality monitoring in Geneva town (SW)</p> <p>Delairtech (railway infrastructure)</p>



RTD OBJECTIVE : SATELLITE IMAGES PROCESSING FOR PLANNING



RTD OBJECTIVE	RLA TRANSPORT PRIORITY	HORIZON 2020, NATIONAL OR REGIONAL STRATEGIC OBJECTIVES	EXAMPLES IN THE REGIONS MP-AQUI
<p>Satellite image processing and GIS to provide data for transport and territorial planning</p>	<p>Development of peoples and goods transport's inter-modality</p> <p>Development of common data services: unique ticketing, interoperability of different data</p>	<p>Satellite applications plans of the French Ministry of Transportation,</p> <p>Nereus influence</p> <p>GMES/Copernicus</p> <p>Regional satellites applications policies</p> <p>All french planning requirments</p>	<p>Satellite Image acquisition and processing:</p> <p>Structural actors : IGN Espace, CNES, Astrium, CETE, SMEs like CS, Noveltis, Magellium...</p> <p>National initiatives for the access to satellite images.</p> <p>Innovative signal processing: Imaging, Spikenet...</p> <p>Hybridation of image data with GIS: Toura</p> <p>Pivotal Research activities TeSa, ENAC, ISAE, CESBIO...</p>



THANKS FOR YOUR ATTENTION

