

# **FRENCH MINISTRY IN CHARGE OF ENVIRONMENT**

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*31/05/2012*

Présent  
pour  
l'avenir



**FRENCH MINISTRY of ECOLOGY, SUSTAINABLE DEVELOPMENT,  
TRANSPORTATION and HOUSING**

[www.cete-sud-ouest.developpement-durable.gouv.fr](http://www.cete-sud-ouest.developpement-durable.gouv.fr)

# CETE : CENTER OF TECHNICAL STUDIES

## IN FRANCE : 8 CETE

Divided up in 17 Laboratories and Delegations

## SCOPES

Transportation Studies, Road constructions, Civil engineering, Sustainable Development issues, Geotechnics ...

## WHO ARE WE ?

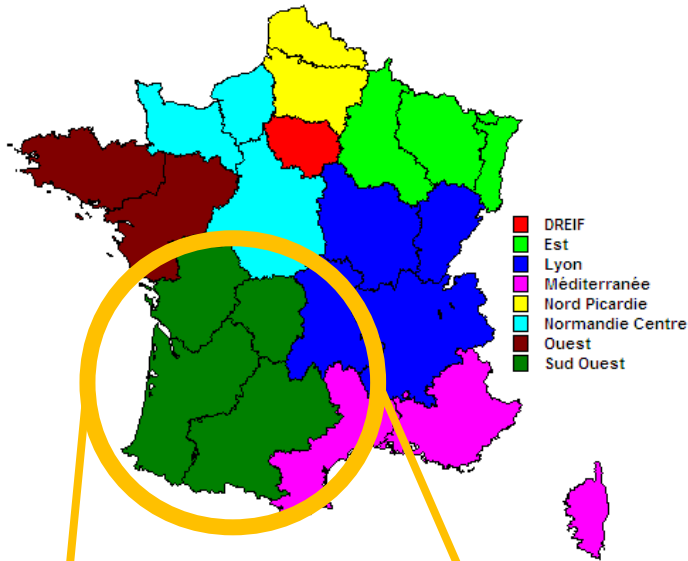
### CETE SOUTH WEST

Delegation of Toulouse

Innovation and Competence Pool : National level

Satellite Applications and Telecommunication Task Force

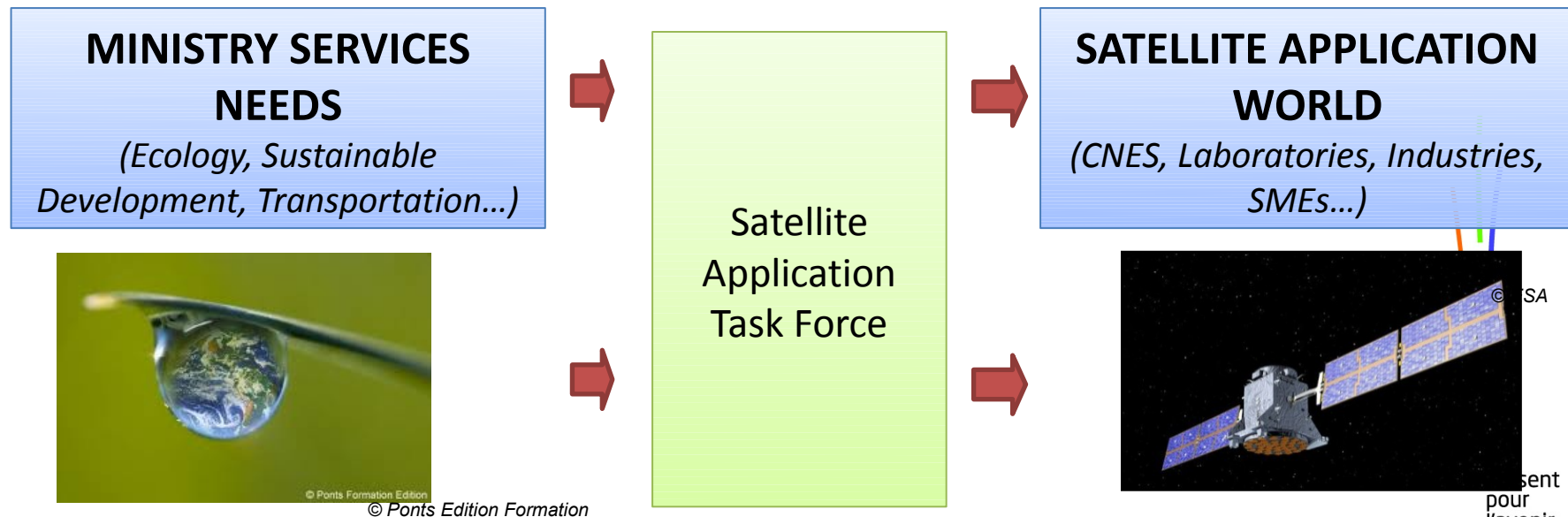
**Collaboration with IGN Espace**



# THE EXPERTISE RELEVANT TO THE CETE BRINGING TO SPACE APPLICATIONS

**CETE SO** : Institutional vision, Links with public strategies actors, knowledge of the main national and regional Actors, member of main clusters of Midi-Pyrénées/Aquitaine : Aérospace Valley, NEREUS, CCT AS

**SATELLITE APPLICATION TASK FORCE** : Experts in Satellite Applications



# Plan for Satellite-based Applications - MEDDTL

Which Satellite-based Applications  
to fulfil the MEDDTL's requirements  
by 2015 ?



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# The MEDDTL and Space Applications

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First version of the Plan 2007, focused on technologies linked to transport and mobility

Creation of MEDDTL and the Grenelle acts publication reshape reflections and action of the Ministry (oceanography, environment)

- **7 transverse actions:**
  - access data, projects, PCI ...
- **4 work packages**
  - EO, sustainable developemnt of coastal areas, ..
- **17 thematic actions**
  - coastline reference cartography
  - marine energy



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# Expression of MEDDE needs for maritime applications

- **Pollution:**

- ➔ Monitoring and cartography of marine atmospherical pollution
- ➔ Monitoring toxic blum algae
- ➔ Identifying and monitoring marine pollution (volunteer or by accident). Identifying the responsible



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## • **Biodiversity**

- Monitoring Marine Protected Areas
- Monitoring of corals and their habitats
- Tracking displacement and migration of species in relation to habitat
- Impact of biodiversity on the microclimate.





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  - ➔ Permanent monitoring of rogue waves (excluding tsunami)



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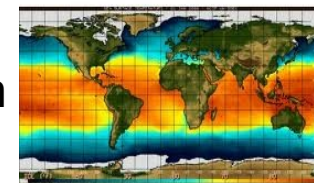
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- **Climate change**

- Monitoring regional indicators of climate change on oceans and land surfaces
- O2 content of the oceans
- Identification of areas at risk from rising sea levels



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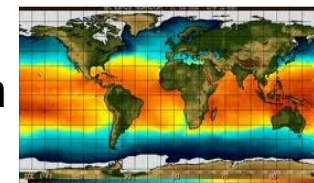
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- **Sustainable mobility**

- ➔ Identification and monitoring maritime traffic
- ➔ Services Aids to Marine Navigation (E-Navigation)
- ➔ Support to eco-driving for sea and river



# MEDDE Plan « Plan SAT »

- Needs expressed by DG (DGALN, DGITM, DGECC)
- Applications « ready to be used » or on going developemnt
- Developpement from now to 2015

<http://www.cete-sud-ouest.equipement.gouv.fr/plans-sat-du-meddtl-r300.html>



Thanks for your attention

