

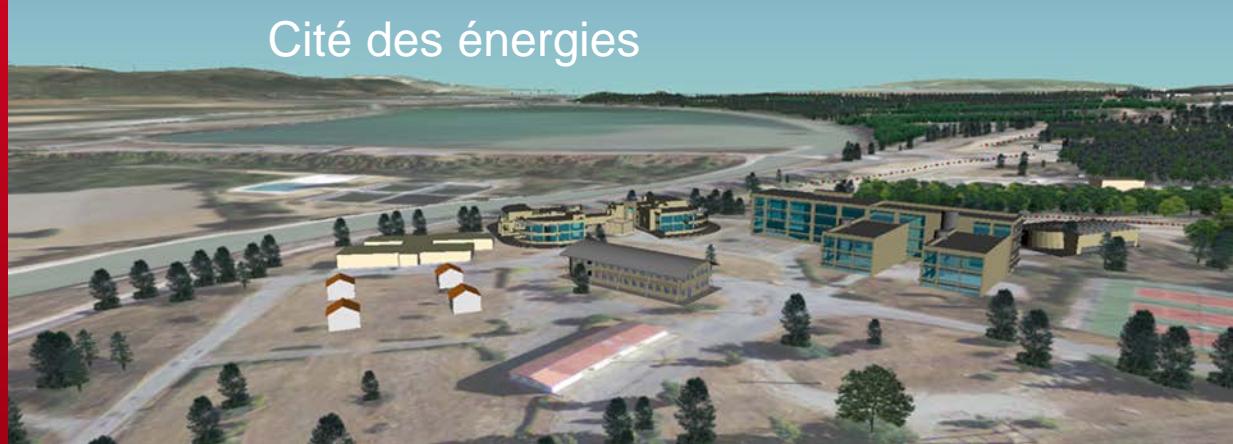
DE LA RECHERCHE À L'INDUSTRIE



www.cea.fr

Presentation OCOVA

Cité des énergies



Ecole des Mines à Gardanne



CEA | 10 AVRIL 2012

1 - CEA-Tech acteur français majeur en recherche technologique

Le Commissariat à l'Energie Atomique et aux Energies Alternatives

Executive management of the CEA

Technologie

Science



15867 technicians, engineers
Researchers and collaborators

10 research centers

4,3 Mds € budget

1608 current priority patents in portfolio

>650 registration of priority patents

150 start-up since 1984 in the innovative technology fields

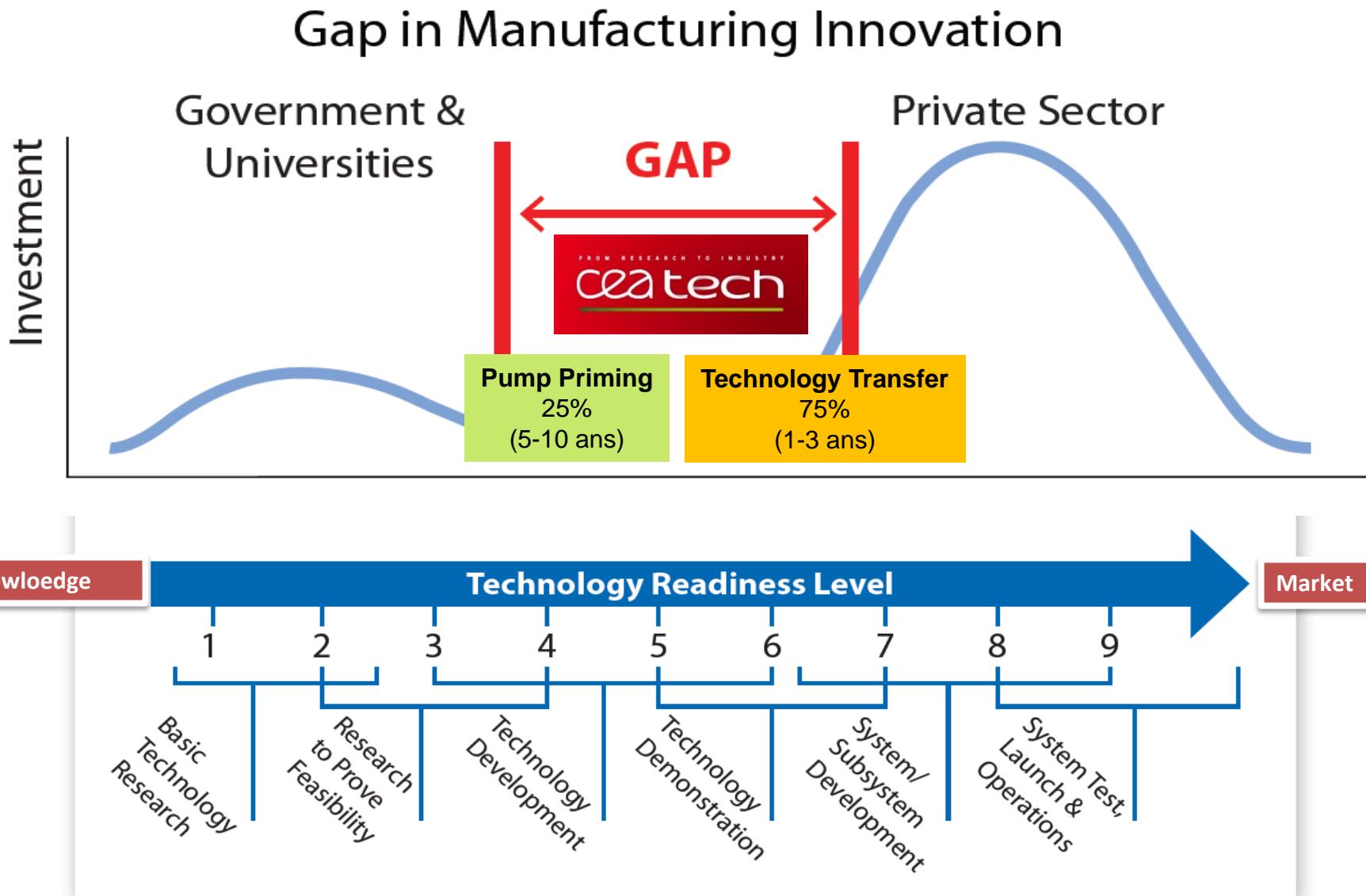
45 mixed units of research

25 corresponding research laboratories

→ DAM mission : **strategic** independance of France

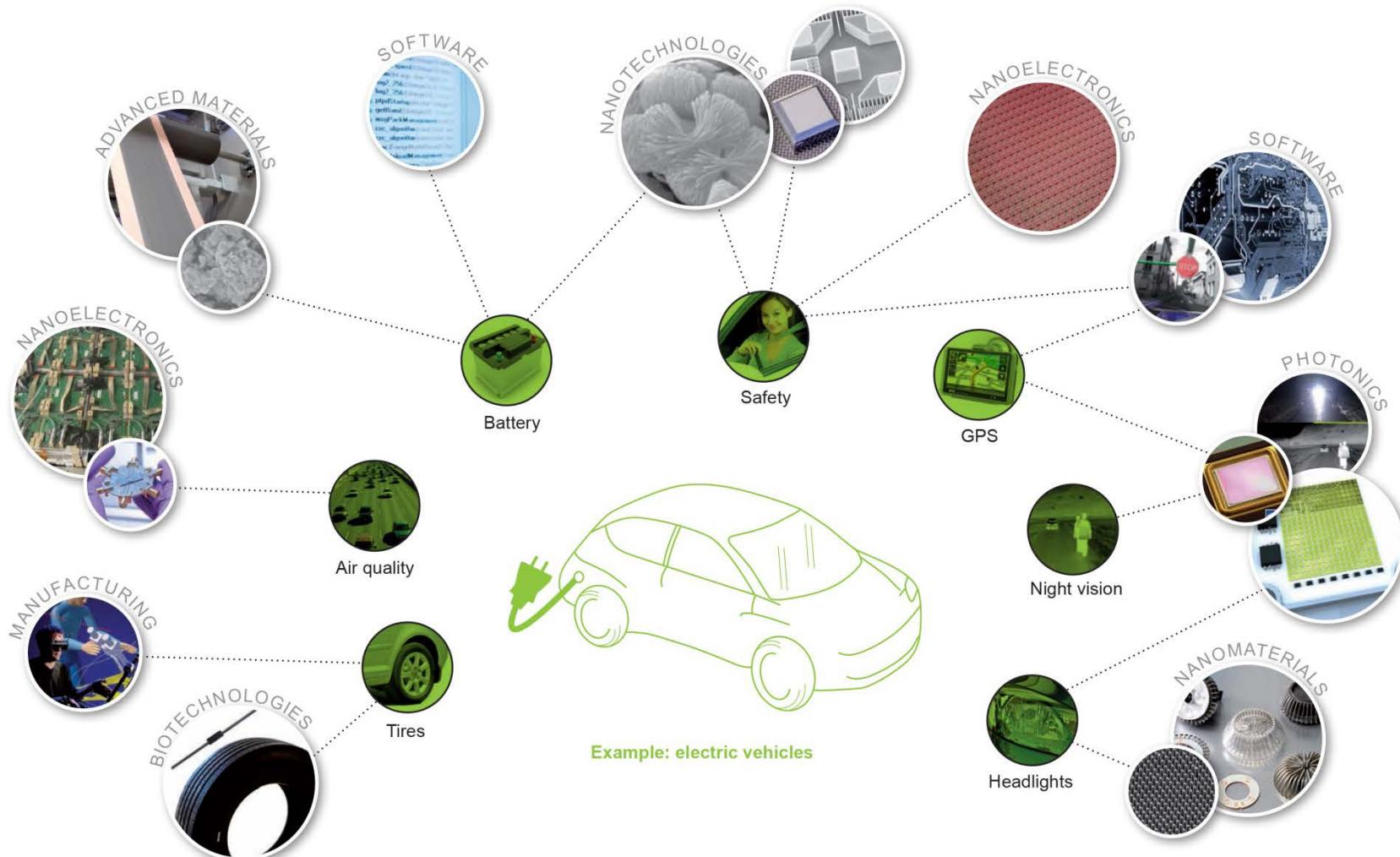
→ DEN mission: **energy** independance of France

→ DRT mission : **reindustrialization** of France by the innovation



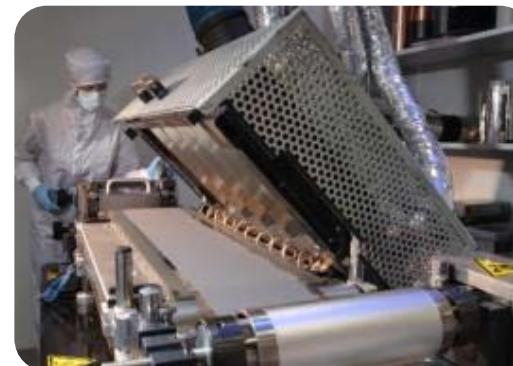
DEVELOPING INNOVATIVE NEW PRODUCTS BY COMBINING AND INTEGRATING SEVERAL KETS

Developing innovative new products by **combining** and **integrating** several KETs



The plateform batteries of the LITEN

Energie



CITE DES ENERGIES & PARTNERS



Région

Provence-Alpes-Côte d'Azur

communauté du
PAYS D'AIX

**CONSEIL
GÉNÉRAL**
BOUCHES-DU-RHÔNE
cg13.fr

**CONSEIL
GÉNÉRAL**
ALPES DE HAUTE-PROVENCE

4 strategic axes / 4 technological platforms

Solar demonstrator



- Solar demonstrator with concentration
 - ➔ **Inside solar platform**
- Smartgrid (network balancing, storage, isolated sites)
 - ➔ **outside solar platform MEGASOL**

Mediterranean buildings



- Energy efficiency (natural ventilation, cold solar energy, instrumentation, lighting, home automation ...)
- New materials
- New practices (home automation)
 - ➔ **Plateform « mediterannean buildings »**

Biomasse 3G et Biomasse Hybride 2G



- 3rd biofuel technology + Process production and extraction
 - ➔ **Plateform biofuel 3rdG / HELIOBIOTEC**
- Running production settles by hybrid process 2G
- Treatment of urban waste

Other technological transfers



Partnership for the competitiveness of the regional companies with Bases defers TECH CEA
Electric mobility, hydrogen, biomass 2G, nanomaterials, etc.

STRATEGIC AXIS DPACA BUILDING

Summer confort

- Inertia
- Natural ventilation
- Glazing
- Climatisation
- Natural light

DOMOTIQUE
Internet of Things

- Moisture management



Mediterranean building



Experimental houses



Weather cells



Bio material

- Isolation (straw, rice hulls,...)
- Building materials (wood, stones,...)



Environmental chamber

- Walls (PV, double skin,...)



Front wall

DOMOTIQUE
Internet of Things
Usages



MERCI DE VOTRE ATTENTION

Pierre JOUBERT
Chef de département DPACA
Pierre.joubert1@cea.fr