FROM RESEARCH TO INDUSTRY

cea tech

Architecture, IC Design & Embedded Software

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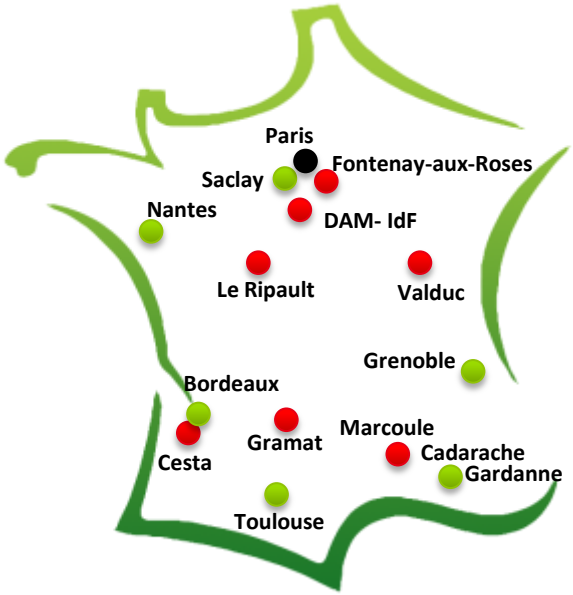
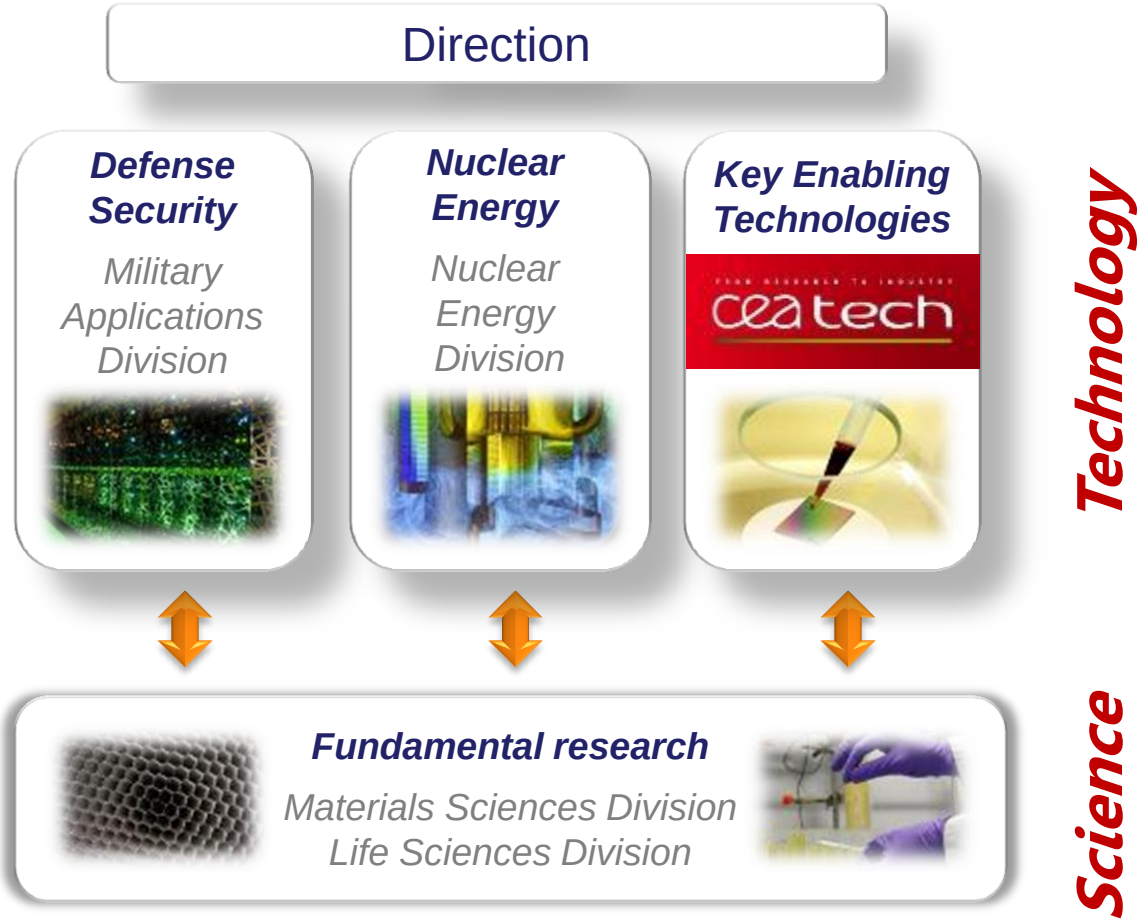
leti & list

CEA: from Research to Industry

- » 16 000 employees
- » 10 research centers
- » 4 regional extensions
- » Budget of 4.3 billion €
- » 650 patents/year
- » 4000 publications/year
- » 50 Joint Research Laboratory
- » 150 startup creations in 30 years





CEA Tech: mission

cea tech

Une mission unique :

Contribuer à la **création de valeur** et **d'emplois** pérennes dans l'industrie française (tous types d'entreprises)

en améliorant la **compétitivité qualité** des entreprises

par **l'innovation technologique**

CEA Tech: France's leader in technological research

Key Enabling Technologies (KETs)

Address all applications → ***Multiple opportunities for transfer to industry***

Not affected by industry-specific economical cycles

CEA ownership of KET Intellectual Property

Ensure steady, long-term growth for CEA Tech

Budget

> €500 million/year

24% CEA funding

41% Corporate funding

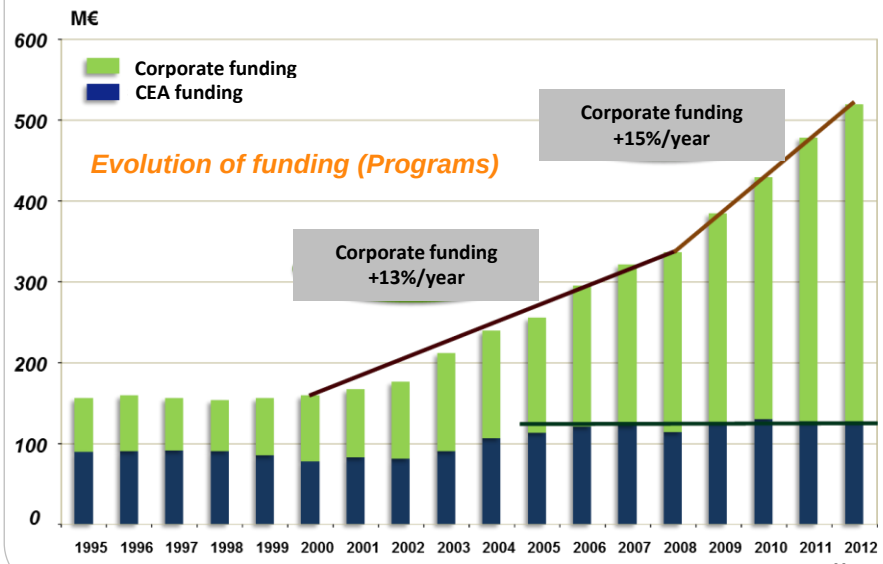
35% Incentives

43% Payroll costs

33% Operating costs

24% Investment

A strong growth based on corporate funding



CEA Tech: KETs for a broad range of industries

KETs drive new developments across a broad range of industries

Example: nanoelectronics

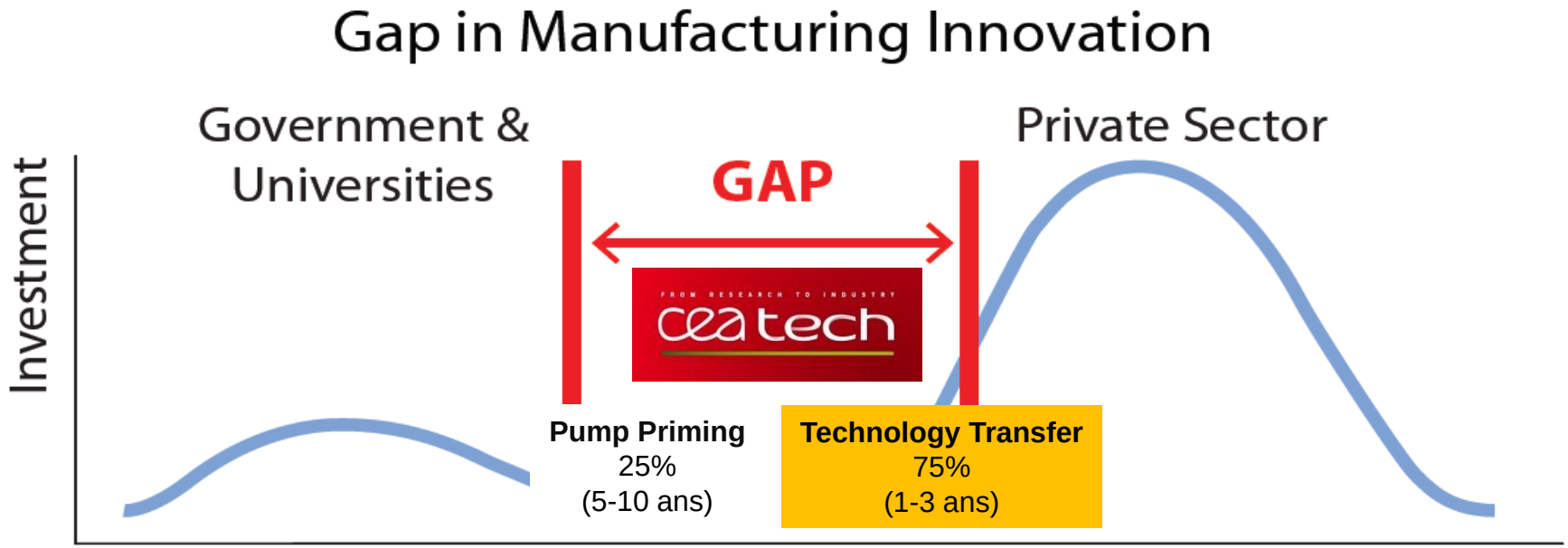
CEA Tech: key figures

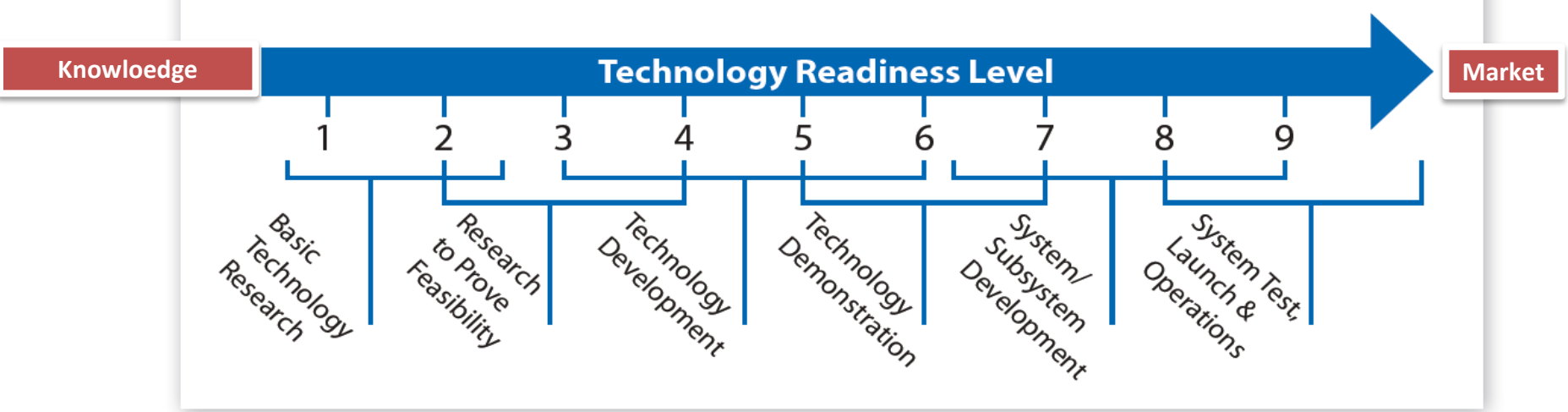
MISSION : To develop and disseminate new technologies for industry

- Annual operating budget of more than **€500 M**
- More than **50 HIGH-TECH START-UP** over the past 10 years
- **4,500 EMPLOYEES**
- **550 PRIORITY PATENT** applications per year

- **Our CUSTOMERS** :
  - ✓ **80 %** listed on the **CAC 40**
  - ✓ More than **500 SMBS**
  - ✓ **145 INTERNATIONAL CUSTOMERS**

CEA Tech: bringing competitiveness to our customers





Source: AMP Steering Committee

CEA Tech: a wide offer of Key Enabling Technologies

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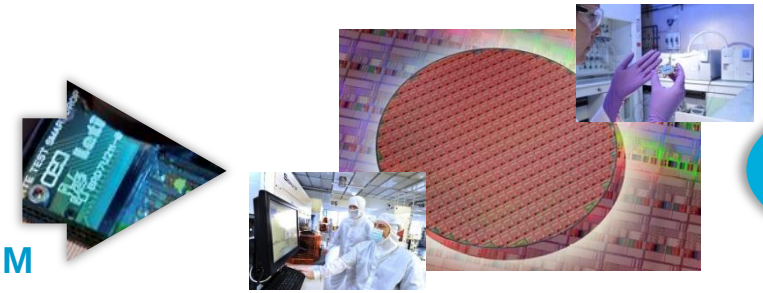
Laboratory of Electronics and Information Technologies

Staff: 1600, Budget: €300 M



Micro-nanotechnologies and their intégration in systems

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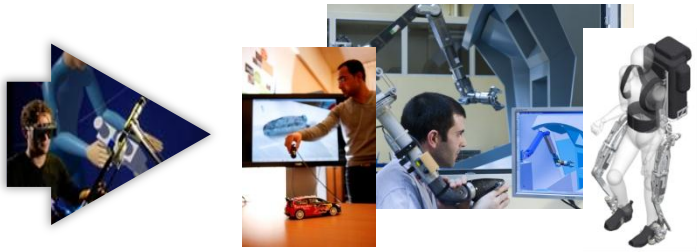
Laboratory of Integrated Systems and Technologies

Staff: 700, Budget: €90 M



Software-intensive systems
Advanced manufacturing

liten

Laboratoty of Innovation for new Technologies for Energy and Nanomaterial

Staff: 1100, Budget: €170 M

New energy technologies and nanomaterials

Solar

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INSTITUT NATIONAL DE L'ENERGIE SOLAIRE

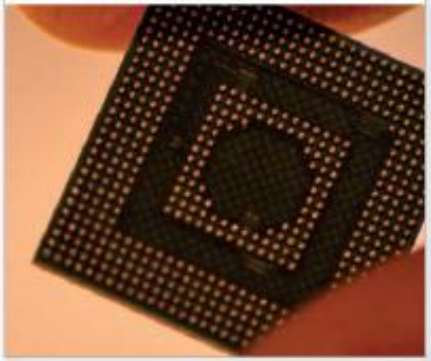
CEA Tech: unique technology platforms over Europe

World-class experts, « application » know-how and equipments

Micro- and nanoelectronics
7,000 sq. m. (clean rooms)
Staff: 800
Investment: €1 billion

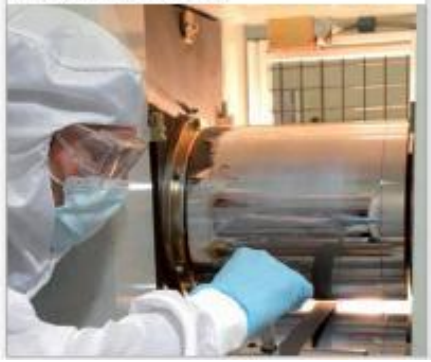
Nanocharacterization
2,500 sq. m.
Staff: 80
Investment: €30 million

Design
1,800 sq. m.
Staff: 100



Embedded systems
1,200 sq. m.
Staff: 180

Batteries
3,000 sq. m.
Staff: 200
Investment: €50 million



Solar
25,000 sq. m.
Staff: 360
Investment: €150 million

Clinatec
6,000 sq. m.
Staff: 100
Investment: €40 million

Advanced manufacturing
2,000 sq. m.
Staff: 200

INDUSTRIAL PARTNERSHIPS

Partner Project Types

	Cooperative Project	Bilateral Project	Common Lab
Technical Objective	**STATIC** (agreed before start)	**STATIC** (agreed before start)	**EVOLUTIVE** (based on progress)
Resources	**Multiple Partners**	**CEA Tech**	**CEA Tech + Partner R&D**
Governance	**Ext Project leader**	**Partner**	**Partner + CEA Tech**
Duration	**3 yrs avg**	**1-3 yrs avg**	**2-5 yrs avg**
Deliverables	**Results**	**Results & Solution**	**Results, Solution & Know-How**
IP Transfer	★	★★★	★★★