



Nakita VODJDANI

Future Networks and Services programme

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# Objectives of ANR

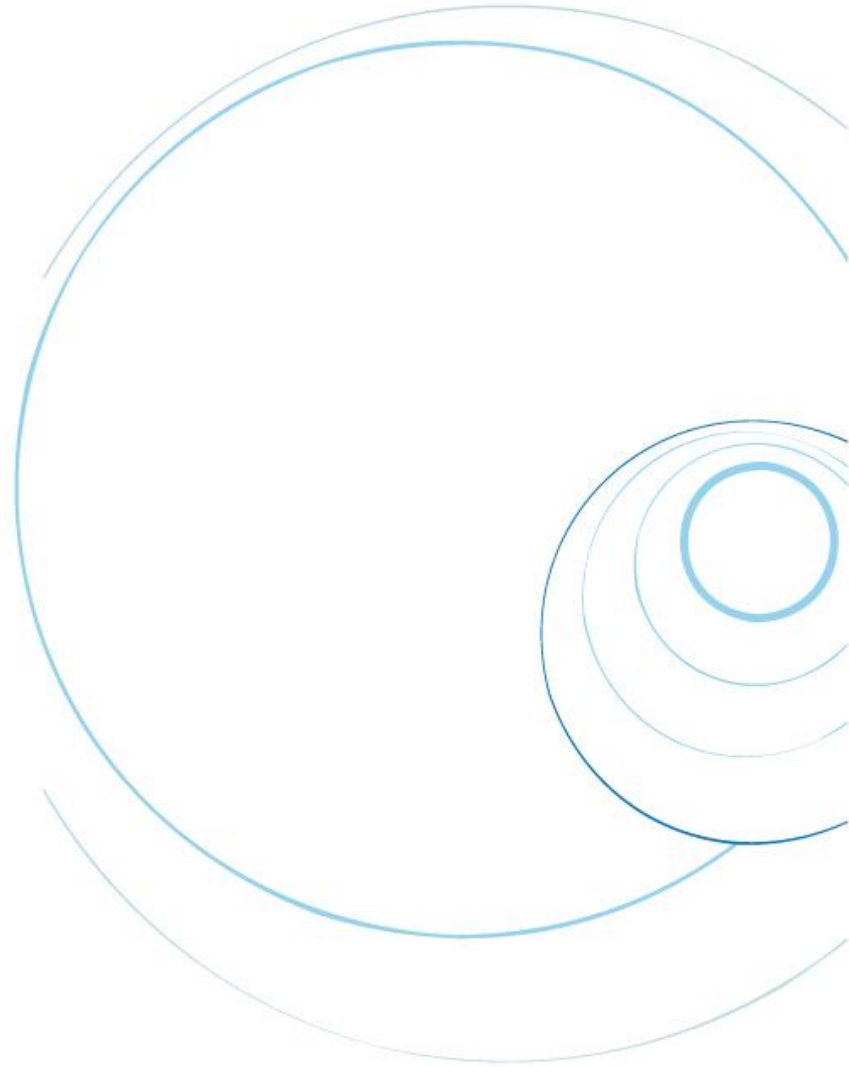
ANR is a public Research funding agency

to provide France with a reactive structure  
devoted to projects funding  
in fundamental and applied research

*Its aim is to stimulate French research, bring more flexibility, reactivity and, as a consequence, competitiveness while keeping a good balance between fundamental research and applied research*

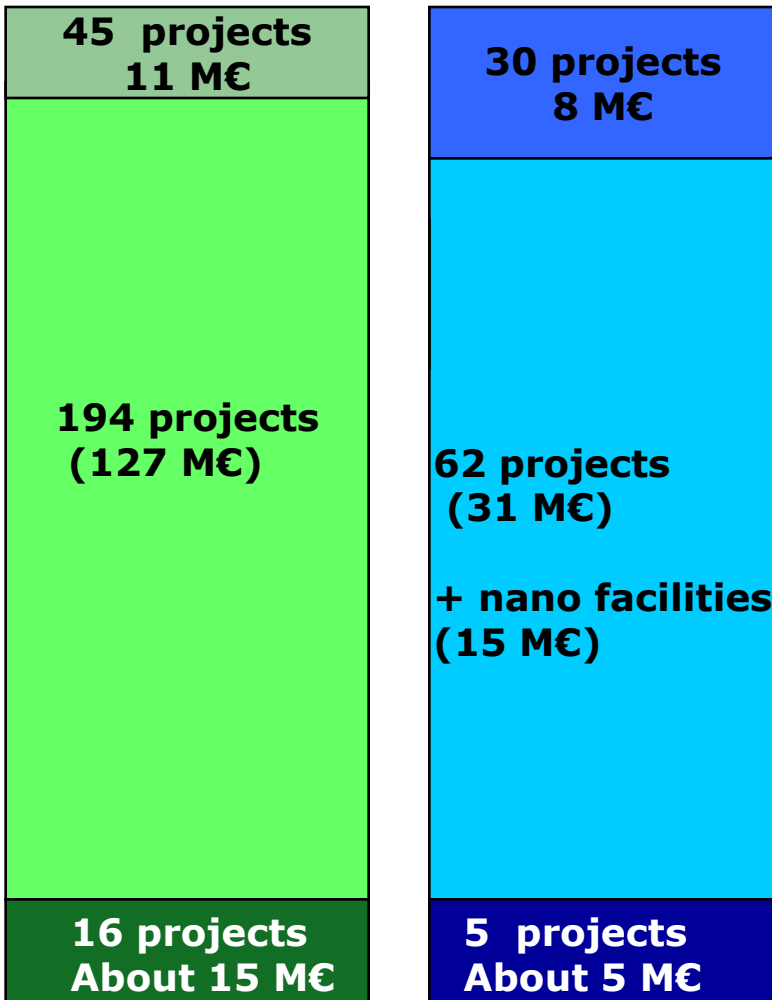
# Budget

- 2005: 700 M€
- 2006: 800 M€
- 2007: 825 M€
- 2008 : 955 M€



# ANR ICST & nanotechnology programmes

Information/communication    Nanotechnology



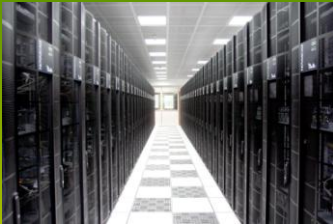
2007 figures

- Non thematic programmes
  - New ideas
  - Young scientists5-8 % of proposal related to ICST (+simulation)
- ICST department
  - Fundamental research on targeted issues
  - Generic technologies
  - Partnership between research and industry
- other ANR departments
  - Projects targeted to specific domains (materials transportation, health, global security, energy, toxicity ...)

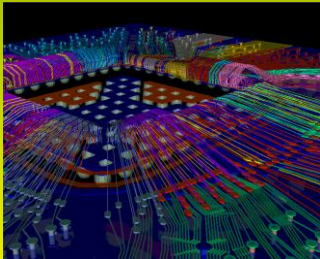
# 2008 calls



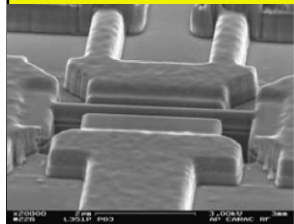
Orange Labs - France Telecom



CEA



ST microelectronics



- New component concept
- Micro and nanoscale
  - Upstream research
  - Components
  - Nanofabrication

- Specific domains of application
  - High performance computing
  - Interfaces and robotics
  - Multimedia content ..
  - ICT based services

- Generic technologies
  - Embedded systems
  - Software technology
  - Communication

- New ideas
  - Architecture
  - New languages

**Content & interactions**

**Design and numerical simulation**

+ **complex systems and mathematical modelling**

**Future networks & services**

**Embedded systems and large scale infrastructures**

**Emerging technologies**

**Nanoscience & nanotechnology programme**

# Calls: What is funded ?

## 1. Research projects :

- In partnership with at least one company, 64% of funded projects in 2007

- Fundamental
- Industrial research
- Experimental development

- Only research organization, 36 % of funded projects in 2007

## 2. Platforms :

- Setting up open experimental facility, software, test beds for experimentation and integration.
- platforms open to other projects
- for research, development (IP issues), benchmarking,...
- Assumed to last beyond ANR funding (economic model)

## 3. Challenge

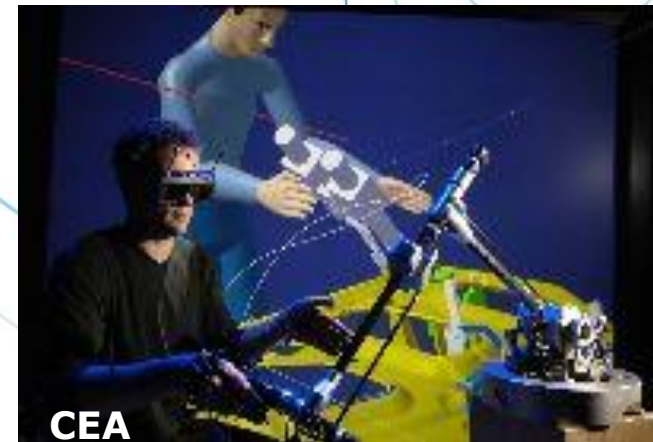
A first test in 2008: Security Challenge. Safe Operating System for Internet

## 4. ARP: Foresight

Ex: Science and technology of cognition  
Nakita VODJANI

### Average project :

- 5,5 partners including 2,5 companies
- 0,86 M€ granted (total cost 1,7 M€)
- Duration: 33 months



# Few exemples:

- IDROMel (ANR 2005) : Open experimental reconfigurable Software Designed Radio platform including:
  - Hardware (Flexible Radio Frequency boards, Base Band)
  - Software (drivers, flexible protocol stacks) devices.
- Persyst II: Platform for tEst and Research on optical telecommunication SYSTEMs
  - High speed system @ 160Gb/s
  - System experiment @ 40Gbt/s
- Senslab: Very Large Scale Open Wireless Sensor Network Testbed
  - Distributed among 4 geographical places
  - Composed of 1024 nodes

# European and National experimental facilities

- Information, sharing best practices
- Harmonization, building synergy, interoperability
- Coordination

Very welcomed initiative!