French ICT strategy

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New government orientations

- The French system for Research and Innovation is being rejuvenated
  - 1st wave
    - National Research Agency (ICT 150M€/year)
    - Industrial Clusters (ICT funding 160M€/year)
  - 2nd Wave
    - Universities will be placed at the center of the R&I system
    - Significant changes in the historic research organization (i.e. CNRS)
  - 3rd Wave
    - A strategic roadmap for Research and Innovation has been published in July 2009
    - Creation of Alliances to make the bridge between the government and the funding agency and research organizations (i.e. ANR, CNRS, CEA, Universities).
The strategic agenda

- **At national level**
  - Anticipating the technology breakthrough and the future scientific flagship,
  - Stimulate innovation and technological transfert
  - Addressing social issues in terms of safety, environment and social acceptance
  - Stimulate research and innovation through mobility, education and pluridisciplinarity

- **At European Level**
  - Being a major actor more precisely within NMP/ICT priorities
  - Exploit Joint programming initiative (i.e FET Flagship : ICT beyong limits-robots companions).

- **At International Level**
  - Consolidation of collaboration with US (NSF/ANR), Japan (JST/ANR)
  - Clarify and consolidate partnership with China
  - Develop partnership with South Korea, Brazil and Russia
The priorities

- Future of Internet and Internet of Things
- Embedded Systems
- Modelling and simulation of complex systems (HPC and Cloud)
- Digital content
- Open source software
- Future of nanoelectronic
- Nanosystems for health and environment
- Nanometrology
- Nanomaterials for energy, health and environment
- Societal dimensions
A new vision for research funding

- Before 2005: the public funding was « flat money »
- After 2005: new orientation toward a more competitive way to get funding with the creation of ANR and industrial clusters
- From 2010:
  - In parallel to competitive fundings on relatively short term projects
  - Identify excellence and strategic research laboratories, equipments and topics
    - creation of long term commitment through
      - Cash money and loans (10 years)
The National initiatives

- To stimulate scientific creativity and explore new areas
  - Increase of the % of Blue sky program at ANR

- To stimulate innovation
  - Within the frame of 1st phase of the recovery plan, launching of « Nano-Innov Initiative » : 70M€

- In 2010 : Launching of the 2nd phase of the recovery plan
  - Major campus (320M€/year)
  - Key laboratories (40M€/year)
  - Creation of 6 technological research centers : 500M€ and 60M€/year
  - Strategic equipment (400M€ and 25M€/year)
    - Nanotechnology network,Nanocharacterization
    - Grid-HPC
    - Ambiant intelligence, robotic platform
    - Photonic
  - Specific call for projects
    - Nanobio : 10M€/year, bioinformatic 10M€/year
    - National Digital agenda under discussion (PPP with Cloud, ehealth, smart grid, smart road, smart city, key technologies for ICT)
Vision for Flagship

- Objectives
  - Consolidate long term research as competitiveness concept for future
  - Identify « North Star » challenges

- Flagship versus national priorities
  - A « north star » challenge cannot be afforded at national level
  - It will create a leverage at national level and at international level
  - It could facilitate emergence of priorities for future national and european work programme
  - In a context of economical crisis, it will improve the efficiency of public fundings through less fragmentation and better coordination

- Create a joint venture with European commission to become a major actor worldwide

- Questions to be solved
  - Selection process
  - Funding schemes
  - Indicators for impact (not only publications)