



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).



➤ 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 beyond 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

- 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
 - Ambient 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)

- 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)