The French strategy regarding the Research Infrastructures

New steering, new road-map

Jean-Pierre Caminade
Department of Large Scale Facilities
Ministry of Higher Education and Research
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The Large Scale Facilities: a service for research activities

• The General Directorate for Research and Innovation (DGRI) of the Ministry of Higher Education and Research defines the strategic directions of the French policy in the field of research infrastructures and supervises their implementation through the research operators.

• Like any other central directorate, the DGRI complies with the guidelines for the modernization of the state in the following two directions:
  • strengthening the national governance of major investments
  • opening services and facilities to the economic competitiveness in all scientific sectors

In most of the scientific domains, the concertation and the coordination with the European and/or the global players are a necessity
The French Research and Innovation System

National System for Research and Innovation

SNRI

ALLIANCES

AVIESAN, ALLENVIE, ALLISTENE, ANCRE, ATHENA

Funding Agencies

ANR, ANRT, ANRS, ANRC, etc

Universities, Research Organisations and associates

Additional Resources (call-based)

Workprogrammes

General Guidelines

Thematic Groups of Coordination

Inter-organisations consultations

Panels of experts
Four main categories of facilities

- **International Organisations (6)**
  French interests in major pan-European/international institutions
  - budget identified in the state budget
  - CERN, ESO, EMBL, etc...

- **Large scale facilities (TGIR) (18)**
  National infrastructures and/or interests in European facilities in line with the international priorities of the national strategic plan
  - budget identified in the state budget
  - SOLEIL, GANIL, LLB, RENATER, GENCI, Oceanographic Fleet, etc...

- **Research Infrastructures (IR) (35)**
  National infrastructures and/or interests in European facilities with a lower commitment at an international level
  - budget in the R&D organisations’ resources

- **Others (under analysis) (60-80)**
  Facilities mainly dependent on another ministry (Defence, Industry, Cultural Heritage, Agriculture, Transport, Energy)
  - Nuclear, defence, engineering (test-beds and demo equipments)
The Executive Committee for RIs – CD-TGIR

Composition:
The CD-TGIR is chaired by the ministry and gathers the chairs of the research alliances, the CEO of the CEA and the CNRS and a representative of the Foreign Affairs ministry.

Mission:
The CD-TGIR prepares the positions and decisions to be endorsed by the research minister and that have to be arbitrated at the interministerial level for European/international questions.

The CD-TGIR elaborates the national strategy and the pluriannual planning of the construction/exploitation/shutdown of the French LSF.

The CD-TGIR monitors and validates the mid-term prospective of the RI budget.

Responsabilities:
The CD-TGIR members are responsible for implementing the decisions and for preparing the strategic visions in their respective domains.

The operators of the facilities are responsible for the day-to-day operational management of the facilities.
Composition of the RI (HC-TGIR)

The CD-TGIR can require the scientific assistance of a Higher Council for RI (HC-TGIR) regarding generic or global questions in relation with the facilities' specific context and their environment. The 14 members of the HC-TGIR have a dual experience in science and management of LSF. Each year, the HC TGIR is in charge to produce a review of the roadmap of the major French research infrastructures (existing, projects and interests).

Proposed by the R&D organisations and the alliances
Composition arbitrated by the CD-TGIR
Chaired by Ms Césarski

Expertise
Large scientific spectrum
Pluridisciplinary
Management of Large Scale Facilities
Management of big scientific projects
Day-to-day functionning

• **Topics are prepared by RI working groups** in each alliance in their respective domains.

• **Topics in fundamental physics** are prepared by a joint committee CEA-CNRS (CCT-CEA-CNRS).

• **Topics are elaborated on the basis of project reviews.** They are only submitted to the examination by the CD-TGIR when they are mature and need a decision.

• **All binding agreements for long-term commitments need the approval of the CD-TGIR.**
  • intergovernmental agreements, ERIC, international conventions,…
  • examination of the deliverables linked to the participation: construction, operation (access policy, IPR policy), shutdown…
Road-map elaboration

The first French road-map (2008) has been elaborated under the supervision of the MESR-DGRI

http://www.roadmaptgi.fr/

Instruction by 4 (French-based) scientific committees (65 members)

The second road-map (2012) has been jointly elaborated under the supervision of the CD-TGIR and the MESR-DGRI


Next one in 2015 ?

In coherence with ESFRI discussions and under the supervision of the HC-TGIR ?
A new demonstration of a European integration

Very different manners to consider the content of a national roadmap
- projects for the future (ESFRI)
- priorities in existing and future RIs (Germany)
- existing and future (expensive) facilities (France)
- only existing (MERIL database)
A possible structuration?

Future ESFRI?
Towards a global roadmap?

G8 Sc. Ministers Statement (London, 12/06/13)

RI are key elements in research and innovation policies.

The complexity of some of them is so high in terms of technological developments, construction and operation and requires a so critical mass of highly qualified resources, that one country or region alone cannot bear such a project.

In such cases it becomes crucial to make concerted efforts at the international level for the realization of Global Research Infrastructures.

We extend the mandate of the GSO to share information on national research infrastructure priorities and prioritization processes, and to create a representative list of GRIs open to global cooperation of interest to new partners.
Conclusion
Harmonizing the roadmap exercise at the European level: a matter of:

**Perimeter**
Existing facilities + projects? Future projects only?
Networks: only the headquarters or all the members?

**Criteria**
FP involvement?

**Expertise**
All research domains?
National/international experts? Users’ representatives?

**Larger vision**
Participations in European/international projects
Roadmap exercise: return of experience

Define the perimeter of the roadmap

Define carefully the same criteria for all research domains (and don’t choose a budget criteria for the selection)

Constitute a well balanced Executive Committee for supervising the selection process and validating the inclusion/rejection in/of the RM

Constitute regular scientific WG for preparing the scientific argumentation

Consolidate the decisions through a high-level scientific advisory body

And regularly restart the exercise...
Thank you for your attention!