

The French strategy regarding the Research Infrastructures

New steering, new road-map



www.enseignementsup-recherche.gouv.fr

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The Large Scale Facilities : a service to 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 follows the guidelines for the modernization of the state in the following two directions:
 - strengthening the national governance of major investments in order to manage the risk on a long term view
 - opening services and facilities to the national economic competitiveness in all scientific sectors



*In most of the scientific domains,
the concertation and the coordination
at the European and/or the global actors
are a necessity*



Three main categories of facilities

→ sorting oriented by a combination of strategic and financial criteria

- **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 with a high level of commitment regarding 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 less important commitment at a national level
 - *budget in the R&D organisations budget (annual reporting to the SC)*
- **Others (under analysis) (60-80)**
 - Facilities mainly dependent on another ministry (Defence, Industry, Heritage, Agriculture, Transport, Energy)
 - Nuclear, defence, engineering (test-beds and demo equipments)

Roadmap
2012



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, the CEO of the CNRS and a representative of the Foreign Affairs ministry.

Mission:

The CD-TGIR prepares the **positions and decisions to be endorsed by the MESR 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**.

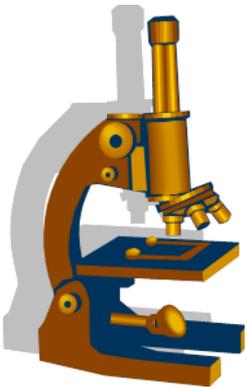
Responsibilities:

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 (except for the IO).

*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.*

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).



Composition of the HC-TGIR

Chaired by Mme C. CESARSKY

Membres :

AM. BOUDET

D. CHANDESRIS

J. GRASSI

PC. HAUTCOEUR

S. JOUSSAUME

P. LEVITZ

A. LICHNIEWSKY

JF. SOUSSANA

W. STIRLING

P. ULTRE-GUERARD

M. VAN DER REST

L. VIGROUX

J. ZINN-JUSTIN

**Proposed by the R&D organisations
and the alliances**

Composition arbitrated by the CD-TGIR

Expertise

Large scientific spectrum

Pluridisciplinary

**Management of Large Scale
Facilities**

**Management of big
scientific projects**



Day-to-day functioning

- **Topics are prepared by RI working groups** in each alliance in their respective domains.
- **Topics mainly in 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.
- **The advice of the HC-TGIR may be required** on demand of the CD-TGIR for a more general examination (needs in a scientific domains, site analysis for a group of different facilities, etc).
- **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

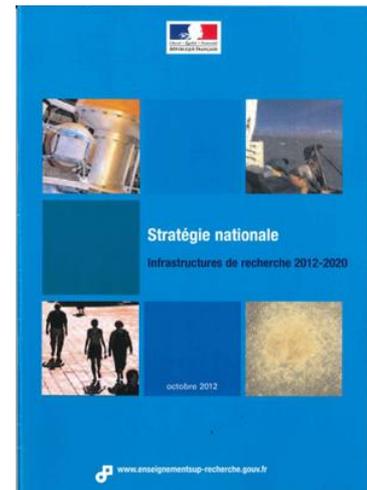
<http://www.enseignementsup-recherche.gouv.fr/cid70554/strategie-nationale-infrastructures-de-recherche-2012-2020.html>

Next one in 2015 ?

In coherence with ESFRI discussions
under the supervision of the HC-TGIR ?



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A new demonstration of a European integration

Austria	Diagonal Hatching	Hungary	Diagonal Hatching	Slovenia	Solid Yellow
Belgium	Solid Yellow	Ireland	Diagonal Hatching	Spain	Diagonal Hatching
Bulgaria	Solid Yellow	Italy	Diagonal Hatching	Sweden	Diagonal Hatching
Cyprus	White	Latvia	White	Netherlands	Diagonal Hatching
Czech Republic	Diagonal Hatching	Lithuania	Diagonal Hatching	UK	Diagonal Hatching
Denmark	Diagonal Hatching	Luxembourg	Solid Yellow	Iceland	Diagonal Hatching
Estonia	Solid Yellow	Malta	Diagonal Hatching	Israel	Solid Yellow
Finland	Diagonal Hatching	Poland	Diagonal Hatching	Liechtenstein	White
France	Diagonal Hatching	Portugal	White	Norway	Diagonal Hatching
Germany	Diagonal Hatching	Romania	Diagonal Hatching	Switzerland	Diagonal Hatching
Greece	Diagonal Hatching	Slovak Rep.	White	Turkey	Diagonal Hatching

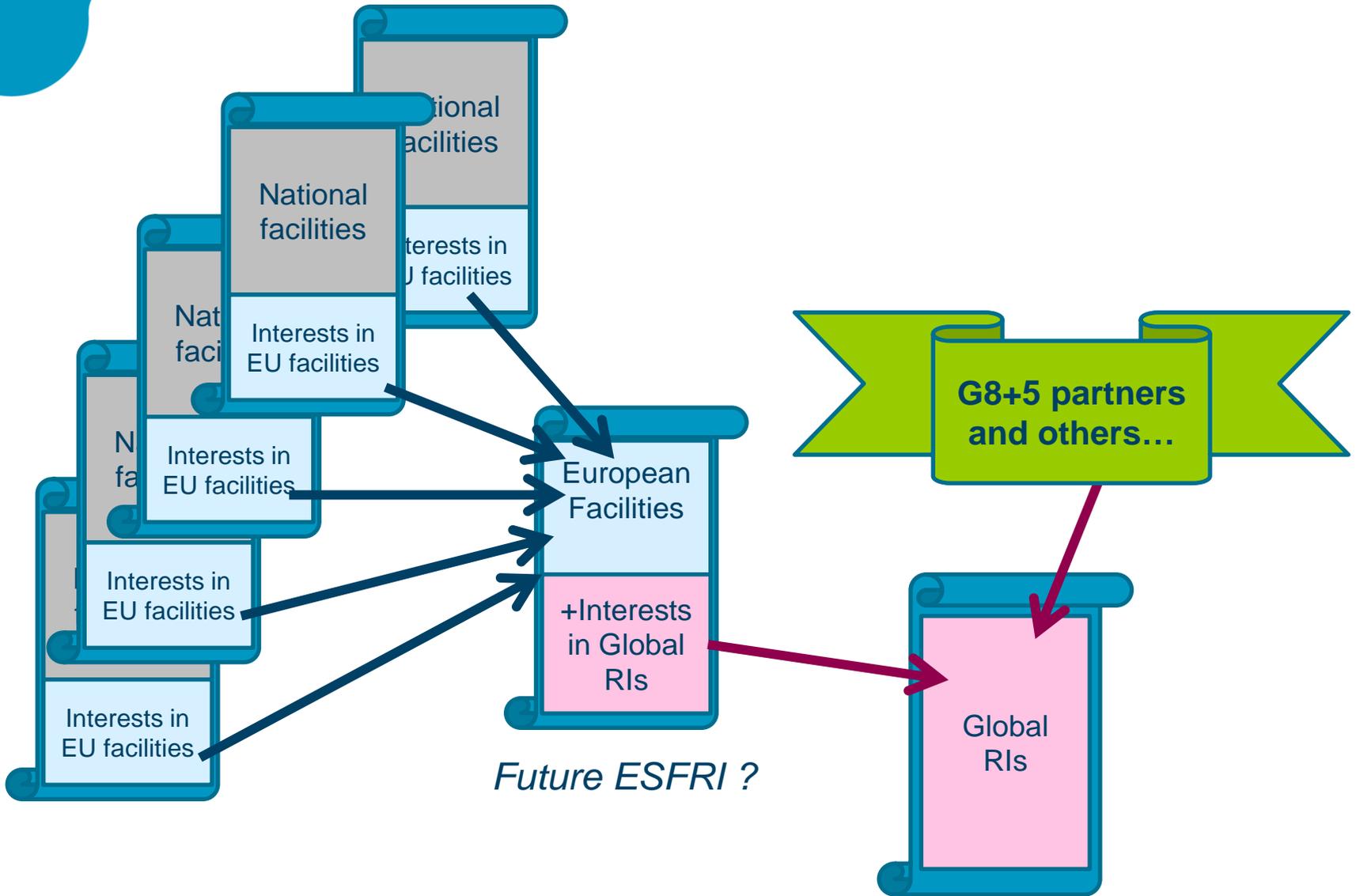
National Roadmap in Place	Solid Yellow
National Roadmap under Preparation	Diagonal Hatching
National Public Funding reserved for new/updated RIs	Diagonal Hatching

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 ?



Harmonizing the RM exercise, a question of:

Perimeter

Existing + projects ? Future projects only ?
Networks: only the headquarters or all ?

Criteria

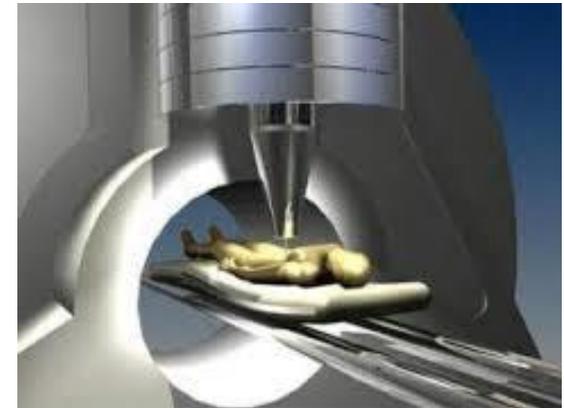
Budget ? National priority ? Users demand ? Scientific exhaustivity ?
Socio-economic return (purchase, salaries, additional functions) ?
FP involvement ?

Expertise

All research domains ?
National/international experts ? Users' representatives ?

Larger vision

Participations in European/international projects



Road-map exercise: return of experience

Define the perimeter of the roadmap

Don't choose a budget criteria for the selection

Constitute a well balanced Executive Committee for deciding the inclusion/rejection in/of the RM

Consolidate the decisions through a high-level scientific advisory body

Avoid conflict of interests (*and there are regularly conflicts of interests in RI !*)

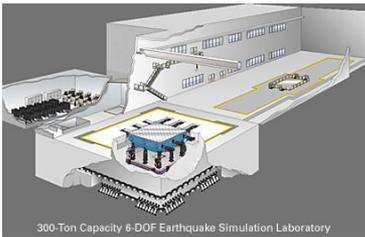
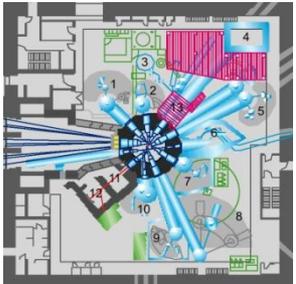
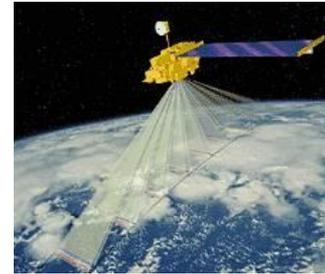
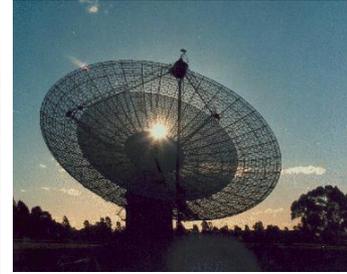
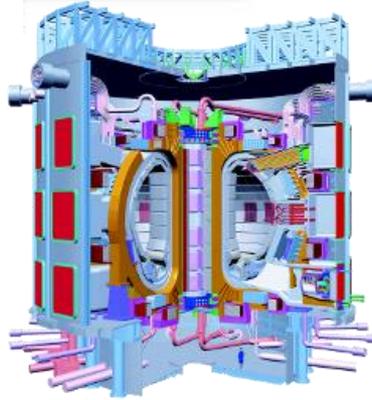
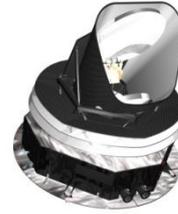
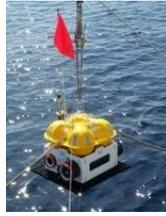
Constitute regular scientific WG for preparing the scientific argumentation

Let the Steering Committee validating the yearly approval of budget

And regularly relaunch the exercise...



Thank you for your attention !



300-Ton Capacity 6-DOF Earthquake Simulation Laboratory