



**MINISTÈRE
DE L'ENSEIGNEMENT
SUPÉRIEUR,
DE LA RECHERCHE
ET DE L'INNOVATION**

*Liberté
Égalité
Fraternité*

DATA INFRASTRUCTURES IN THE FRENCH NATIONAL RESEARCH INFRASTRUCTURE ROADMAP

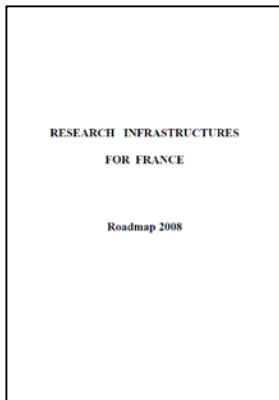
FRANCOISE GENOVA, LAURENT CROUZET AND XAVIER ENGELS

***DÉPARTEMENT SERVICES ET INFRASTRUCTURES NUMÉRIQUES/DIGITAL SERVICES AND
INFRASTRUCTURES***

The screenshot shows a web browser window displaying the website of the French Ministry of Higher Education, Research and Innovation. The page title is "La Feuille de route nationale des Infrastructures de recherche". The navigation menu includes "MINISTÈRE", "STRATÉGIE", "ENSEIGNEMENT SUPÉRIEUR", "RECHERCHE", "INNOVATION", "EUROPE ET INTERNATIONAL", and "RESSOURCES HUMAINES". The main content area features the title "STRATÉGIE NATIONALE DES INFRASTRUCTURES DE RECHERCHE" and a sub-heading "La Feuille de route nationale des Infrastructures de recherche". There are two tabs: "Infrastructure de recherche" and "France Europe 2020". A text block states: "Afin de doter le M.E.S.R.I. des outils nécessaires au pilotage des grands instruments au service de la recherche, la feuille de route française des grandes infrastructures de recherche 2018-2020 retient 99 infrastructures et témoigne de la volonté de l'État par ses grands établissements de recherche et d'enseignement supérieur, de répondre aux exigences de savoir et d'innovation." To the right, there is a section titled "Feuille de route nationale" with a sub-link "Editions des feuilles de route" and "Glossaire des catégories et termes".

<https://www.enseignementsup-recherche.gouv.fr/cid70554/la-feuille-de-route-nationale-des-infrastructures-de-recherche.html>

2008



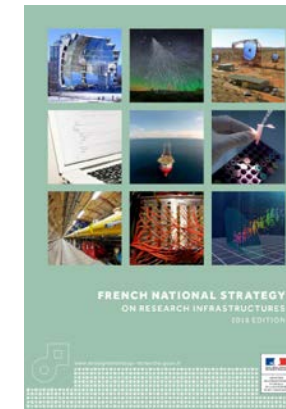
2012



2016



2018



The Roadmap Process

- Being on the Roadmap is a recognition of quality and value for the National Research Strategy
- All candidate infrastructures, including those already in the previous Roadmap, have to fill a questionnaire
- Preparation of description sheets and landscape summaries by thematic sub-groups
- Candidates are presented to the High Council of Very Large Infrastructures (HC-TGIR), an independent body of high level experts
- The HC-TGIR analysis is examined by the Steering Committee of Very Large Infrastructures (CD-TGIR) which decides on the list

The 2018 Roadmap

- Temporally aligned with the ESFRI Roadmap
- 99 Research Infrastructures
 - 4 International Organisations (OA)
 - 22 « Very Large Research Infrastructures » ⇔ IR*/RI*
 - 68 « Research Infrastructures » IR/RI
 - 4 Projects
 - 1 « ESO Instruments »
- Several configurations
 - 26 single site
 - 64 distributed
 - 9 virtual

European Relations



European and International Relations



Thematic Fields and e-Infrastructures



**RESEARCH INFRASTRUCTURES
E-INFRASTRUCTURES**

CATEGORY	NAME	FULL NAME	ESFRI
VLRI	GENCI	Grand Équipement National de Calcul Intensif	PRACE (2006)
VLRI	RENATER	National Telecommunications network for Technology, Education and Research	
RI	CCIN2P3	IN2P3/CNRS Computing Center	
RI	France Grilles	France Grilles	

Data in the Roadmap

- Data aspects have become more and more important in the Roadmap since 2008
- « e-questions » in the questionnaire since 2016
- 2018: All Research Infrastructures produce data, and one aim is that they produce FAIR data, with Data Management Plan as a first step

Thematic Data Infrastructures in the Roadmap – Thematic Diversity!

- Thematic data infrastructures in the Roadmap since the first edition in 2008
 - CDS Strasbourg Astronomical Data Centre
 - ADONIS ⇨⇨Huma-Num Humanities (DARIAH, CLARIN)
 - PROGEDO Social Sciences (ESS, CESSDA, SHARE)
- Among those on the Roadmap now, in addition
 - Data Terra All the Earth Science fields
 - CLIMERI-France Climate modelling (IPCC, IS-ENES, GENCI)
 - PNDB Biodiversity Data National Pole (GEO BON, GBIF)
 - CONSTANCE Population-based epidemiologic cohorte
 - IFB Institut Français de Bioinformatique (ELIXIR French Node)

Next update in 2021

- The national context has evolved
 - French National Open Science Plan 2018
 - National coordination on e-infrastructures

- The work for the update has begun
- One evolution will be to formally identify the thematic data infrastructures