

CNES Organisation Overview

4 centres for complementary vocations





Launch base
Ariane 5
Soyouz
Vega
Preparation of the future



Headquarters
PARIS
192

EVRY
234
Launchers
study, design,
development
of Ariane, Soyouz,
Vega launch systems,
preparation for the future



TOULOUS
1760
Orbital vehicles
study, design,
development and
control of satellites



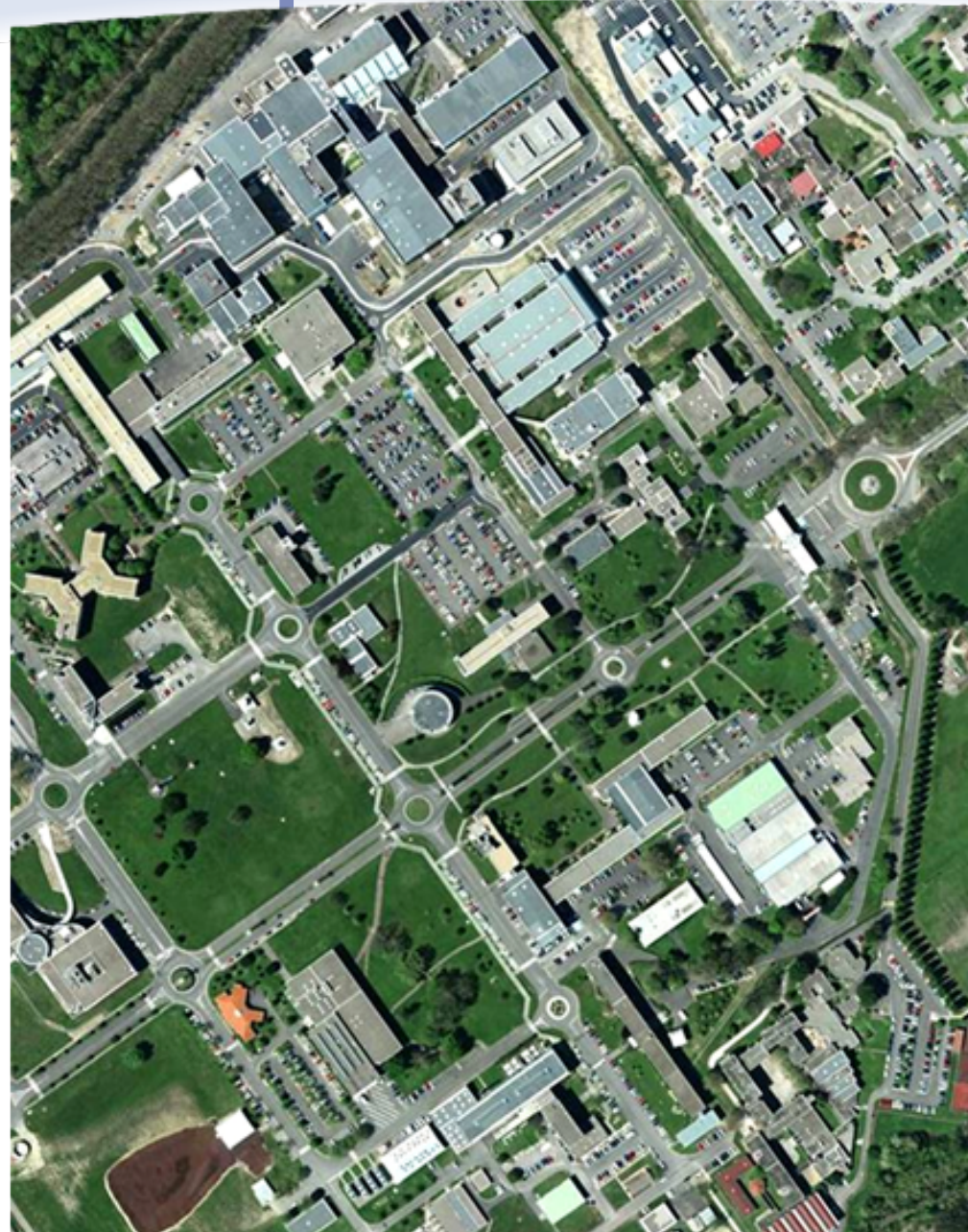
56.5 hectares
(140 acres)

146,000 m² of buildings
(1.5 million sq ft)

70% of the CNES workforce

75% are engineers and
managers

*The average age is 45
and has been stable for 3 years*



Leads

the orbital system Projects

(satellites and onboard payloads, ground segments),

**satellite station acquisition & keeping
Operations – Exploitation .**

Technical policy

Preparation of the future

Ensures

**use of data and
innovative
applications.**

Develops

**and executes scientific
balloon-borne
experiments.**





**Direction
Marc Pircher**



**Direction adjointe
Philippe Goudy**

Projects



**Projets orbitaux
Lionel Suchet**



**Mission & exploitation
de données
Geneviève Campan**



**Ballons
Marie-Anne Clair**

Skills



**Qualité
Patrick Saunier**



**Charges utiles
Sciences image
Christophe Valorge**



**Système Bord-Sol
Philippe Marchal**



**Techniques véhicules
Loïc Boloh**



**Produits & segment sol
Brigitte Behal**



**Opérations
Bernard Cabrières**



**Radiofréquence
Jean-Paul Aguttes**

Support

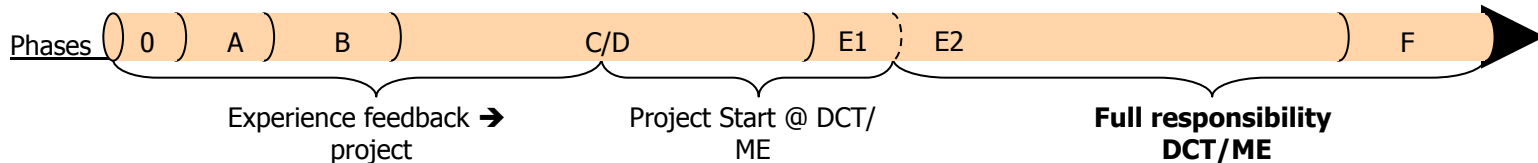


**Support établissement
Guy Nabet**

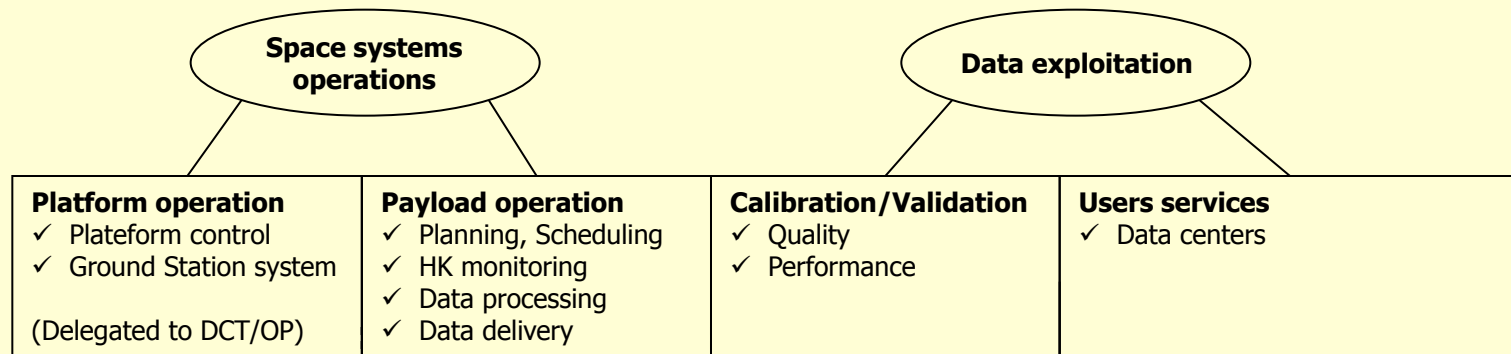


**Ressources humaines
Communication interne
François Levasseur**

... in the project life...



... to carry out functions ...



... Organized in ...

4 thematic offices

1 data quality office

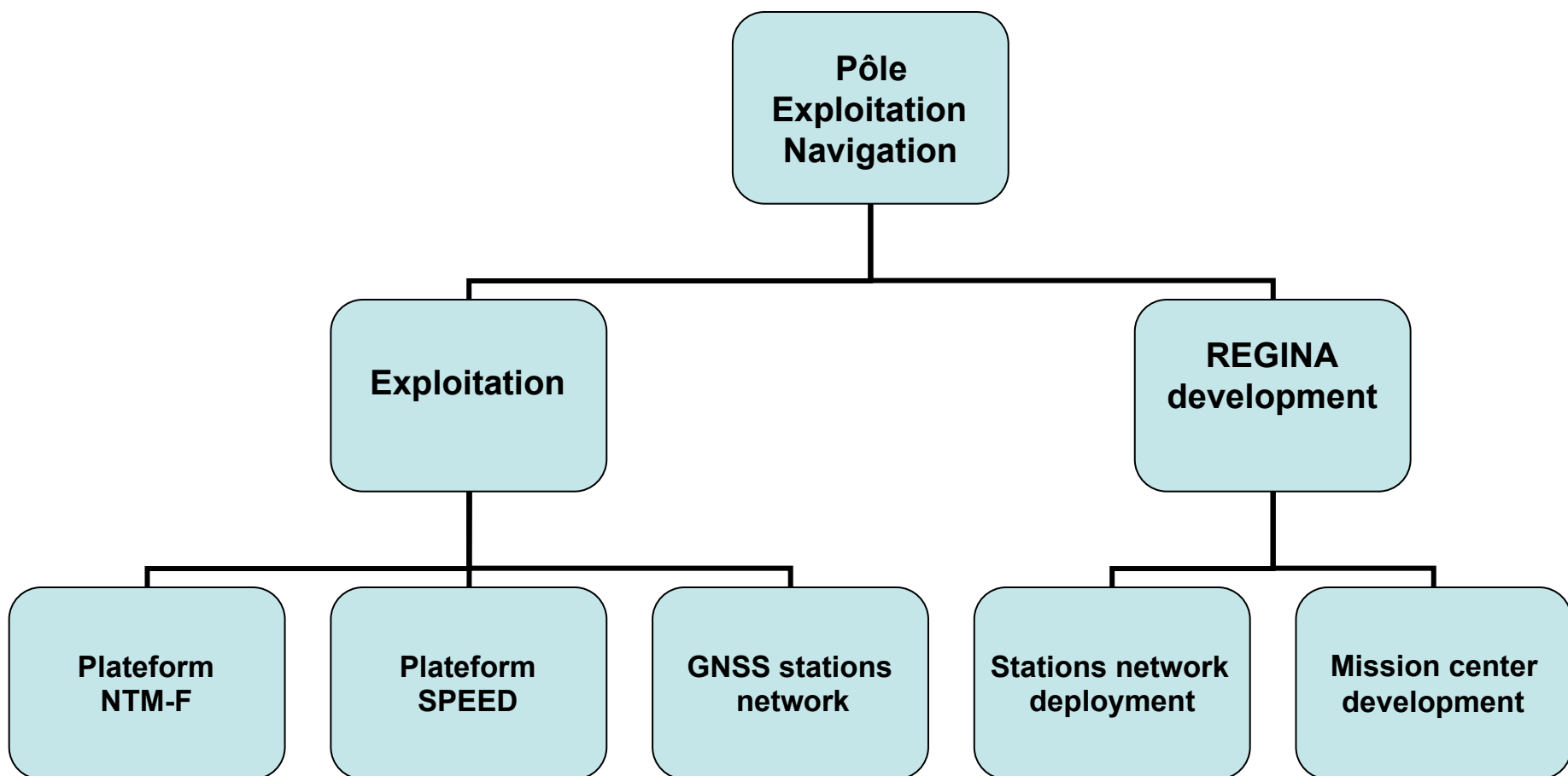
ME/EI

ME/OT Earth Observation	Spot, VGT, Hélios, Pléiades, IASI, Parasol, Calipso, Polder, Jason, Doris, Champ, Grace, Goce, Altica, HY2, Cryosat, ...	Pôles (ICARE, ETHER, POSTEL), GIP Mercator-ocean, altimétrie, Océanographie, Imagerie, Météo, ...
ME/EU Space Science and Exploration	Corot, Rosetta, T2L2, ChemCam, Picard, Planck, Herschell, Exomars, Bepi, ...	CDPP, Medoc, CDS, SPASE, ...
ME/EM Microgravity experiment	CADMOS expériences nationales, CADMOS ESA, Cardiolab, Cardiomed, Cassette végétales, Declic, Vols Paraboliques, ...	ULISS, ...
ME/NC Navigation and Data Collection	Cospas-Sarsat, EGNOS PACF, GPS, TM Ariane	

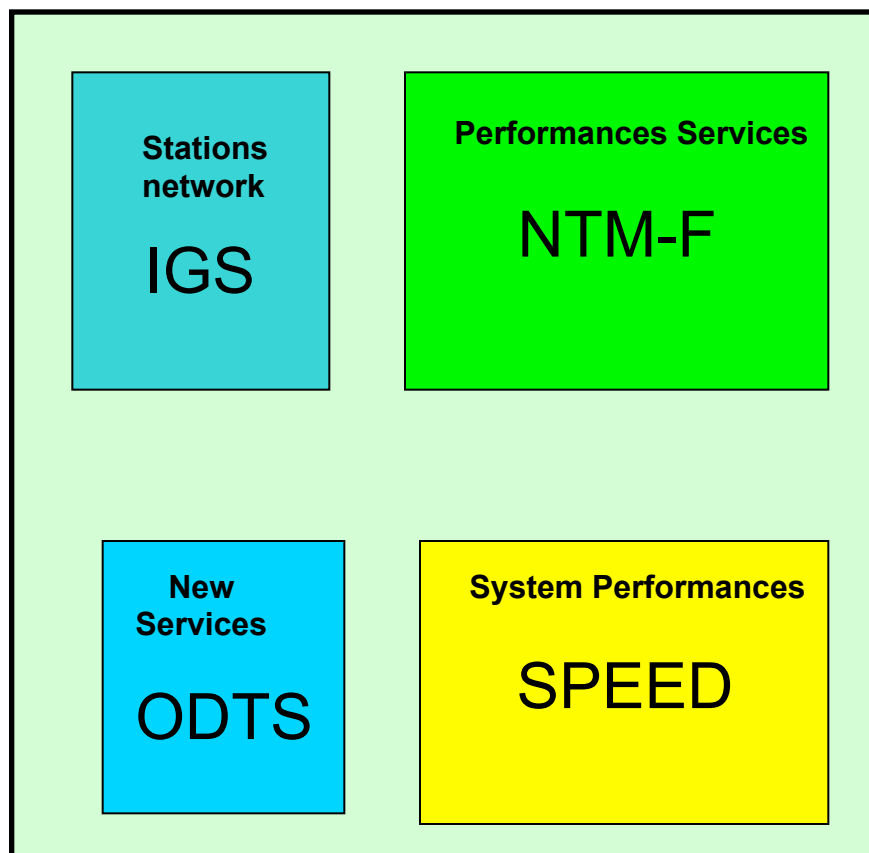
1 computer science support office

ME/PRM

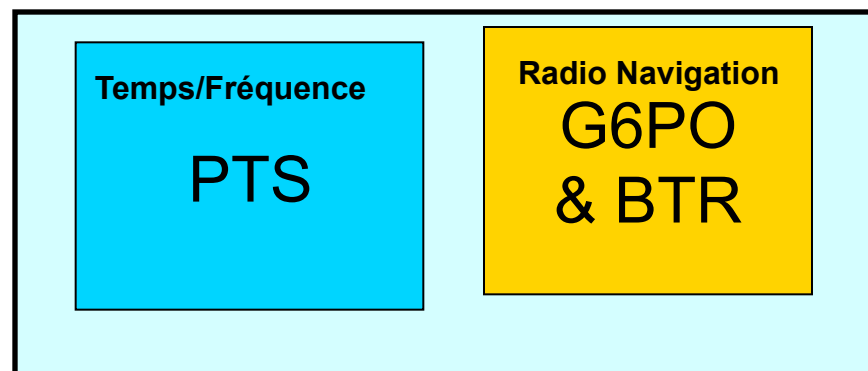
- Operation and maintenance of CNES navigation facilities
- Daily processing of data provided to internal or external users
- Integration, test, and qualification of new tools



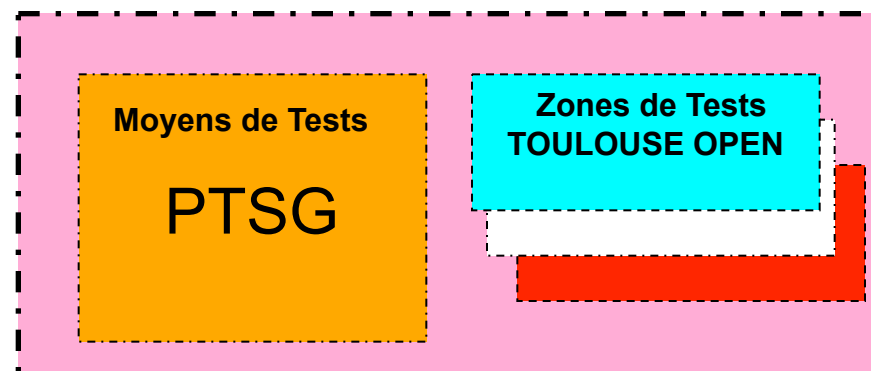
Exploitation (ME)



Laboratories (RF)



PF régionale (GUIDE)



■ **NTMF (Navigation and Time Monitoring Facility)**

- ◆ **Navigation systems performances assessment**
 - Accuracy, continuity, availability, integrity and compliance with the standards (MOPS, ICD)
 - GPS,
 - EGNOS,
 - WAAS,
 - In the next future GLONASS, GIOVE / IOV GALILEO
- ◆ **Collection of public datas from internet and partners**
- ◆ **Dedicated or off the shelf tools (Pegasus)**

■ **SPEED (Support Platform for Egnos Evolutions and Demonstrations)**

- ◆ **EGNOS Simulation platform to perform experimentations**
 - Preparation of the future
 - New services demonstrations
 - Follows an Experimentation plan to test new concepts (authentication, ionospheric models, new modulations, multi constellation, multi frequencies,...)

■ **Network of GNSS stations for IGS contribution**

- ◆ **Existing GPS stations in Toulouse, Libreville, Tahiti, Kerguelen, Hartebesthoek,**
- ◆ **Grasse**
- ◆ **New GNSS stations : REGINA**