Interfaces for the distribution of data to civil institutions

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Content

The service to Institutional Users: key issues
Pleiades 2013: key figures
Organization in France: partnership and organisation
Operational activities: 2013 feedback
Perspectives from 2014 onwards
A privileged access and allocated system capacity resources are dedicated to the Public & Institutional Users of the cooperating and partner countries:

- 40% of the satellites capacity resources
- specific access to data
- specific pricing for Institutional Users
- License

**Délégation Service Public (DSP)**
- Operations
- Distribution

**Cat-1**: Institutional Users from these countries
Ministries, governmental bodies, state owned companies
Local, regional or national public authorities
Scientific and research centers,

**Cat-2**: European Institutional Users
in the framework of bilateral specific agreement with CNES

**Cat-3**: All other Users
Pléiades 2013 : key figures

ORFEO Programme (thematic commissioning phase)

Total Acquisitions from June 2012

166 000 km²

Sites in France

Sites across the world
Pléiades 2013 : key figures

ISIS Programme: 29 projects ~ 30 000 km²

Disaster Charter: 20 activations; 13 700 km²
- Average per event: 632 km²
- Average per delivered product: 292 km²
- Reactivity:
  D+1 after activation: image collection
  Data processing & product delivery 8 hours after collection

Type of events per month
Pléiades 2013 : key figures

France’s national programme

- Monoscopy: 132,000 km²
- Stereoscopy: 13,800 km²

April-October 2013
Pléiades 2013 : key figures

Belgium : national coverage

Joint Initiative
- BELSPO
- IGN
- Flanders Region
- Wallonia Region
- Brussels

Belgium : national coverage

30 750 km²
June-Nov 2013
Pléiades 2013 : key figures

European Space Agency (Cat-2)

- 40% acquired in standard programming mode
- 60% in emergency programming mode
- 23,000 km²

Yearly allocated volume: 16,425 images.
178.04 images have been programmed which represents 1.08%
# Pléiades 2013: Key Figures

**Global 2013 Year Consumption Cat-1**

<table>
<thead>
<tr>
<th>Cat-1 Users</th>
<th>Total allocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>25,453</td>
<td>101,105</td>
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Operations started in Oct 2013

- **Sweden**
  - National Coverage 2013
  - 1.17% allocated
  - 98.83% allocated

- **Belgium**
  - National Coverage 2013
  - 4.09% allocated
  - 95.91% allocated

PLEIADES DAYS – April 1-3, 2014, Toulouse – JP. Cantou (IGN), B. Montfort (ADS)
Organisation in France

Organisation based on 3 pillars to serve the Public Institution

- **AIRBUS DEFENCE & SPACE**
  - Operate system
  - Task satellites
  - Manage requests
  - Distribute products
  - Promote use of Pleiades

- **IGN**
  - Ensure the national coverage renewal with satellite imagery
  - Gather French Institutional Users requests
  - Facilitate use of Pleiades imagery by the French Institutional Users
  - Optimization and management

- **CNES**
  - Satellite system development
  - Control and command
  - Oversee correct operations
  - Promote and support scientific programmes

**Cooperation Agreement**

**Public Service Delegation**

**Partnership Agreement**

PLEIADES DAYS – April, 1-3, 2014, Toulouse – JP. Cantou (IGN) , B. Montfort (ADS)
Organization in France: optimize & share the satellite resource

IGN is the national contact point for French Authorities (local, regional and national)

- Translating needs into image requests
- Image geocoding
- Product archiving
- Product publication & distribution

Public users

Thematic needs

Georeferenced products

Tasking operations, managing conflicts, validating & ordering images

Organization in France: optimize & share the satellite resource
Image requests shall be mailed to: images-pleiades@ign.fr

IGN will:
- encourage communalities between users
- propose the use of available images, if necessary asks for tasking new image acquisitions
- analyse specific requests and integrate them into the annual tasking plan
- manage priorities (i.e. emergency response)

Organization in France: analyse requests & advise users

Valence, France

search for the satisfaction of several users, for land planning purposes
Organization in France: task the satellites & manage programming

Coverage capacity tested in 2013, with specifications suiting several requirements
2 satellites tasked from April to October

Greens: mono
Orange/Red: stereo

Image catalogue: www.geostore.com
Organization in France: purchase data with funds put together

2013 campaign: 4 funding sources used to make available to institutional users a substantial quantity of imagery over France

Contributors:
CNES
AIRBUS D&S
Equipex-Geosud project
IGN

146 000 km² compliant with specifications defined by IGN

Image catalogue: www.geostore.com
Organization at IGN: geocode, deliver and archive products

2012 + 2013 campaigns:

~600 geocoded images controlled onto the RGE® (the French NSDI)
stored in 16 bits depth
delivered to IGN production units and public bodies

Changes captured in 3D

new high speed railway corridor
Organization at IGN: publish and distribute products

Technical and licensing info may be found on www.professionnels.ign.fr

Products published after image enhancement on www.geoportail.fr

Downloading is open to non-commercial use:

Targets: from www.professionnels.ign.fr/satellites-pleiades

Coverages: by FTP, with access key images-pleiades@ign.fr
Perspectives from 2014 onwards

The 2014 campaign targets (in stereo or mono modes):
- evolving areas
- coastal sensitive areas
- French overseas regions

IGN is working with partners to build up a national budget line with cost sharing
Pleiades for the Public Sector : conclusion

Pleiades a system built to benefit of the Institutional community
- Preferential conditions (prices and licensing)

Building an archive and collaborative tasking
- Very high acquisition capacity
- Resources optimization
- To stimulate the demand

Access to the data through IGN portal and Geostore Airbus DS portal
- Archive of French Institutional Users images (image sharing principle)
- Archive and new imagery acquisition

Support from 3 entities (CNES, Airbus DS, IGN) having unique knowledge, experiences and expertise
- Support to Science : ISIS, thematic data centers
- Satellite system operations and management
- Production capacities (ortho, DB,...)
  - High quality level
  - Reference