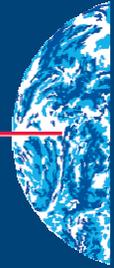


S P O T
I M A G E



Spot Image

***The Trusted Source
for Geo-Spatial Information***

JACIE 2009

Civil Commercial Imagery Evaluation Workshop

April 1, 2009

Fairfax, Virginia

Nicolas STUSSI

Director, Services & Business Development

SPOT Image Corporation

SPOT Image – Corporate Overview



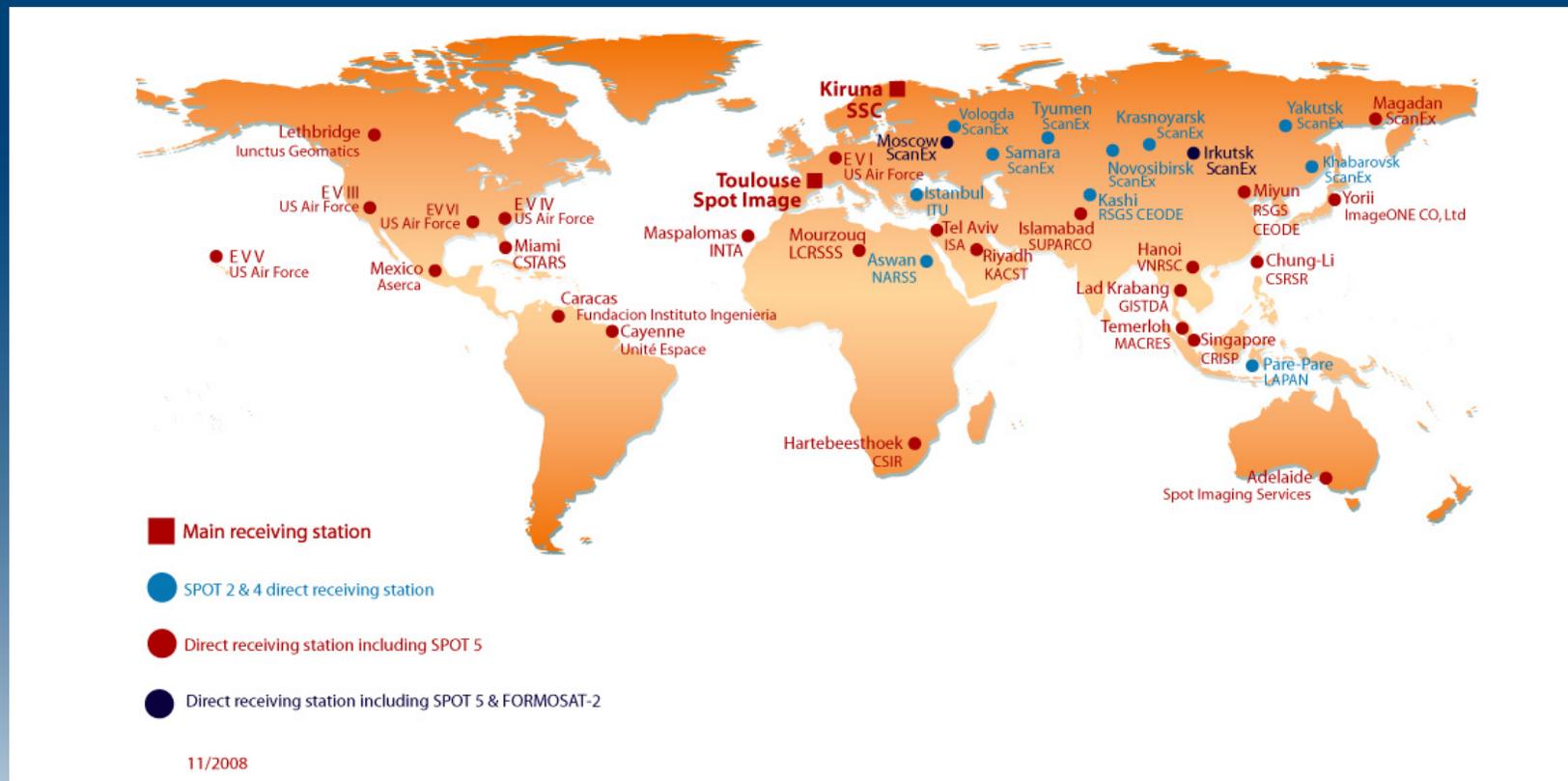
- Increased ownership of **EADS/Astrium Services** (81%)
- Strong Worldwide Presence
- 5 subsidiaries and 2 offices
- 3 satellites in Full Operation: Spot 2, 4 and 5
- 43 active direct receiving stations
- Distribution rights for other satellites: Formosat-2, Kompsat-2, TerraSAR-X
- Strong Focus on Services



SPOT Ground Receiving Station Network



- A strong Worldwide Network
- 10 New Stations in 2007/2008

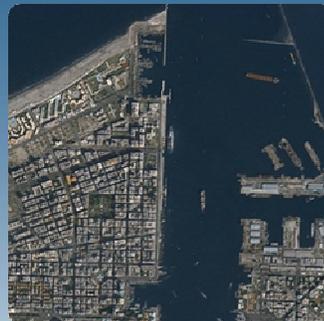


Our Core Data Offering

- ✓ Unparalleled Archive
- ✓ Robust Collection Capability
- ✓ Extensive, High Quality Basemap
- ✓ High Quality DEM / DTED level 2

2.5m SPOTMaps

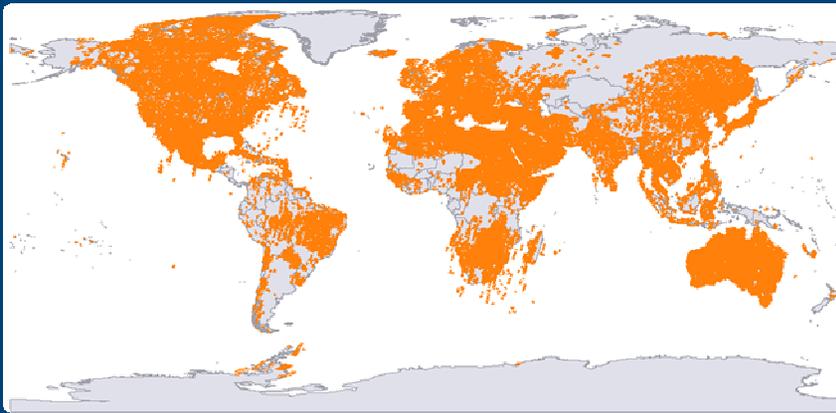
Reference3D



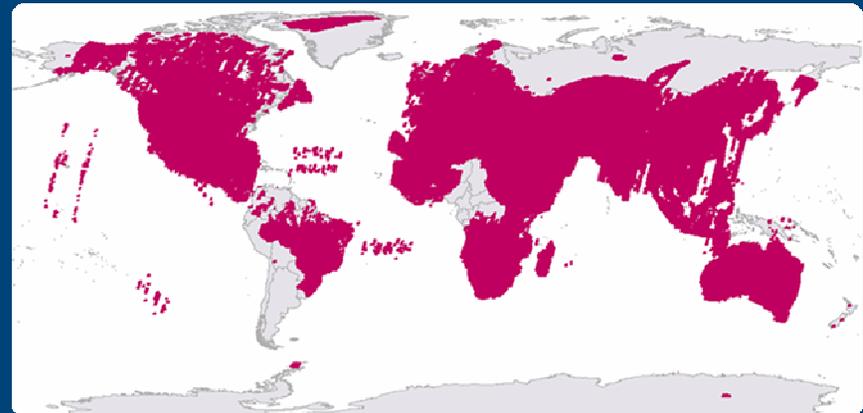
Unparalleled Archive & Collection Capability



- ☑ 90% Worldwide Coverage each Year (2.5m – 20m resolution)
- ☑ Focus on acquiring an extensive 2.5m Color dataset worldwide



- ☑ SPOT5 Imagery
- ☑ Past 12 months
- ☑ Less than 10% Cloud



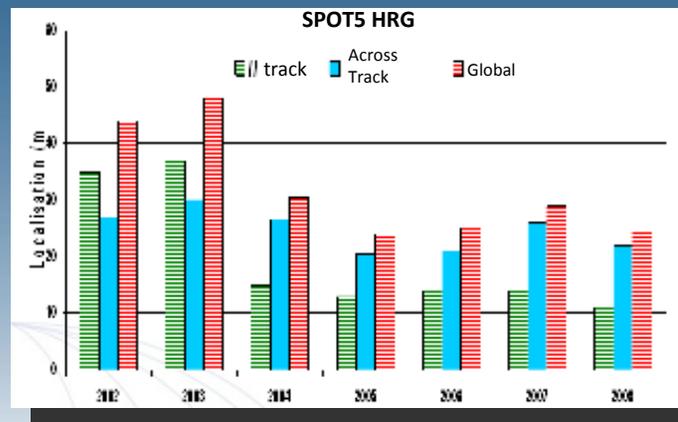
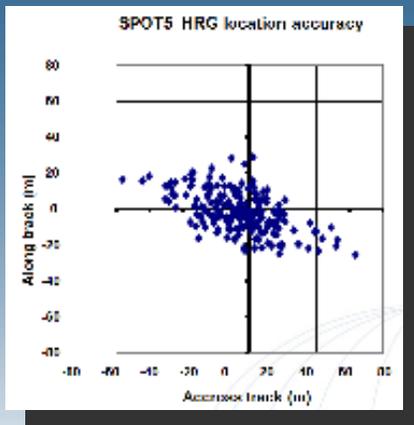
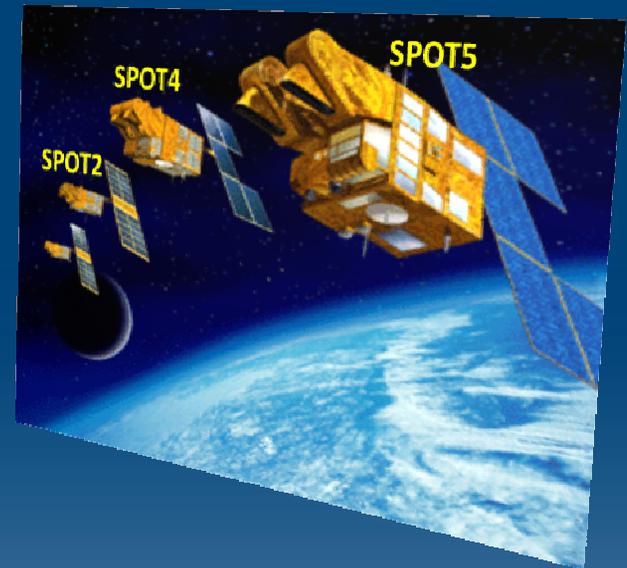
- ☑ SPOT2/4/5 10m & 20m
- ☑ Past 12 months
- ☑ Less than 10% Cloud

SPOT - Location Accuracy Performances



Native Location Accuracy Performances

	Specifications (RMS)	Performances (RMS)
SPOT5 – HRG	65m	25m
SPOT5 – HRS (Stereo)	50m	16m
SPOT4	1500m	350m
SPOT2	1500m	405m



SPOTMaps *2.5m Color Mosaics*



SPOTMaps – Iraq & Kuwait

- 2.5m, seamless, color mosaics
- Over 50 Countries fully covered
- Vintage 2006-Present
- High Accuracy 20m CE90
- Pricing
 - ☑ Sold per km², User-Defined AOI
 - ☑ Annual Subscription Services by Country or Country/Bundle
 - ☑ “All You Can Use” – 50+ Countries – Annual License



Countries currently available

Afghanistan	Iran	Romania
Algeria	Iraq	Serbia
Australia	Israel	Slovakia
Belgium	Italy	Slovenia
Bosnia & Herzegovina	Jordan	South Africa
Botswana	Kuwait	South Korea
Brazil	Lesotho	Spain
Chile	Libya	Sudan
China (Partial)	Luxembourg	Swaziland
Croatia	Malta	Syria
Cyprus	Mauritania	Taiwan
Czech Republic	Mexico	Tunisia
Djibouti	Moldavia	Turkey
Egypt	Montenegro	Turkmenistan
Eritrea	Morocco	United Arab Emirates
France	Namibia	South East US
Gaza	North Korea	Uzbekistan
Greece	Oman	Yemen
Hungary	Pakistan	Zambia
India	Portugal	Zimbabwe

- Pricing
 - ☑ \$/km², User-defined AOI
 - ☑ Annual Subscription Services Available by Country / Country Bundle
 - ☑ "All You Can Use" – 50+ Countries – Annual License

2.5m SPOTMaps

South East US

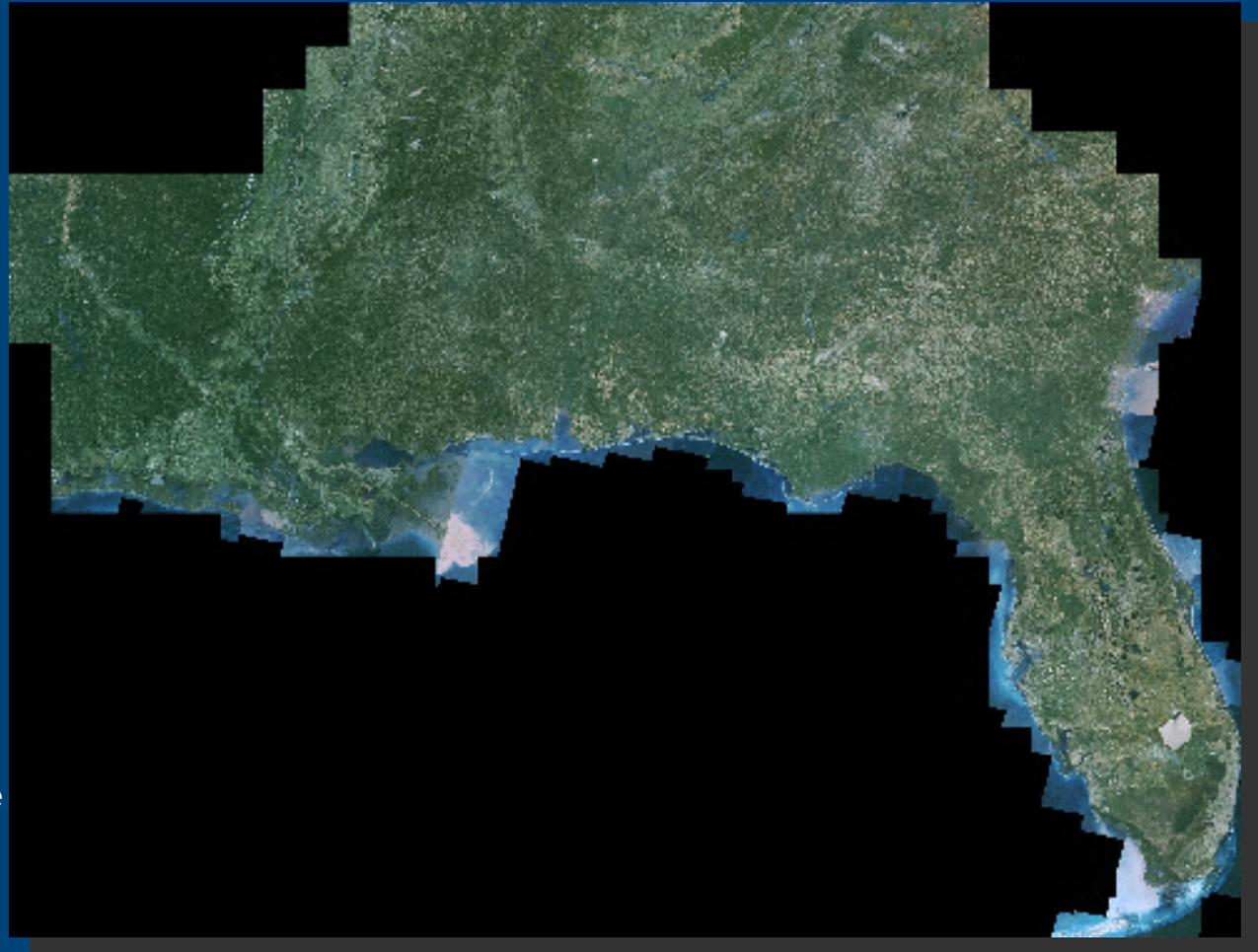


- ☑ Off-the-shelf
 - Florida
 - Louisiana
 - Alabama
 - Mississippi
 - Georgia

- ☑ Coming
 - California
 - Texas
 - Nevada
 - Arizona

- ☑ Accuracy Performance better than 10m CE90

Hurricane Season Reference Basemap



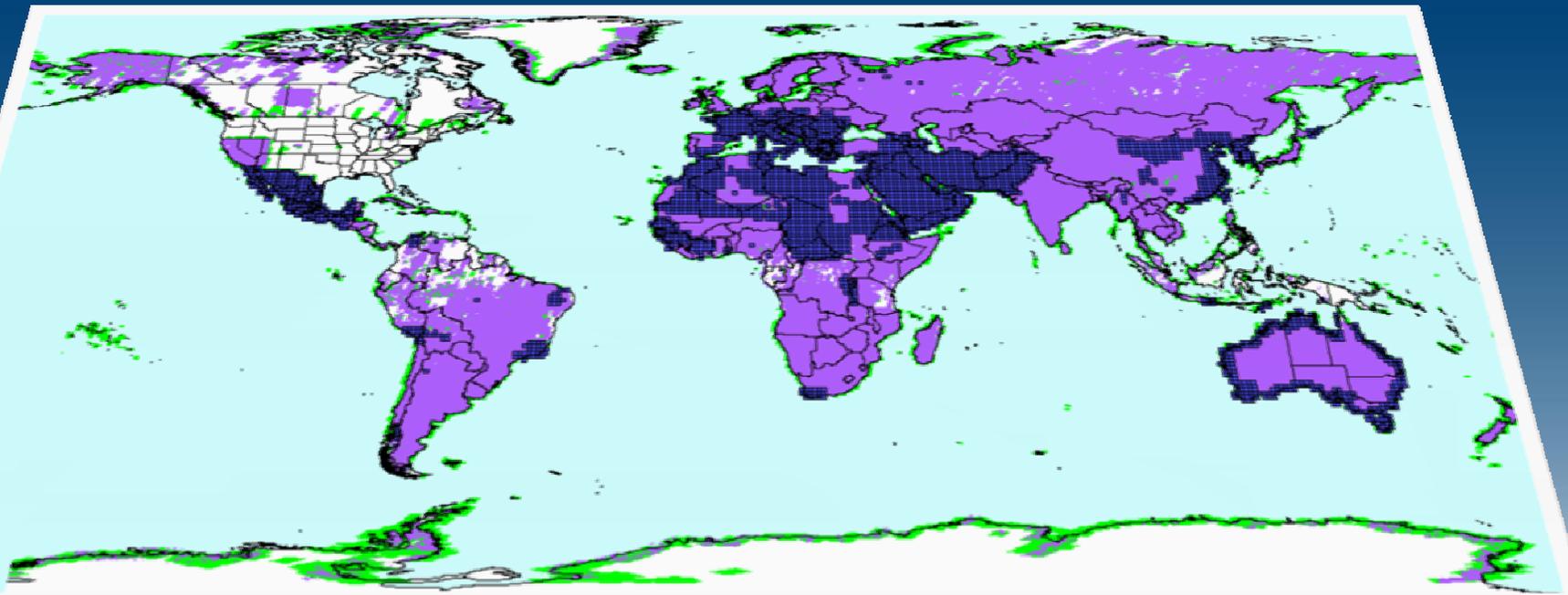
Reference3D

DTED Level 2 Global Coverage



- ☑ Over 35 Millions km² of DTED Level 2 Off-the-shelf
- ☑ Over 110 Millions km² of cloud-free stereo pairs in archive

Certified by various Gov organizations, including the NGA
Currently being used as part of the NGA SRTM Program



■ Off-the-shelf Reference3D ■ Additional Stereo Data (in archive)

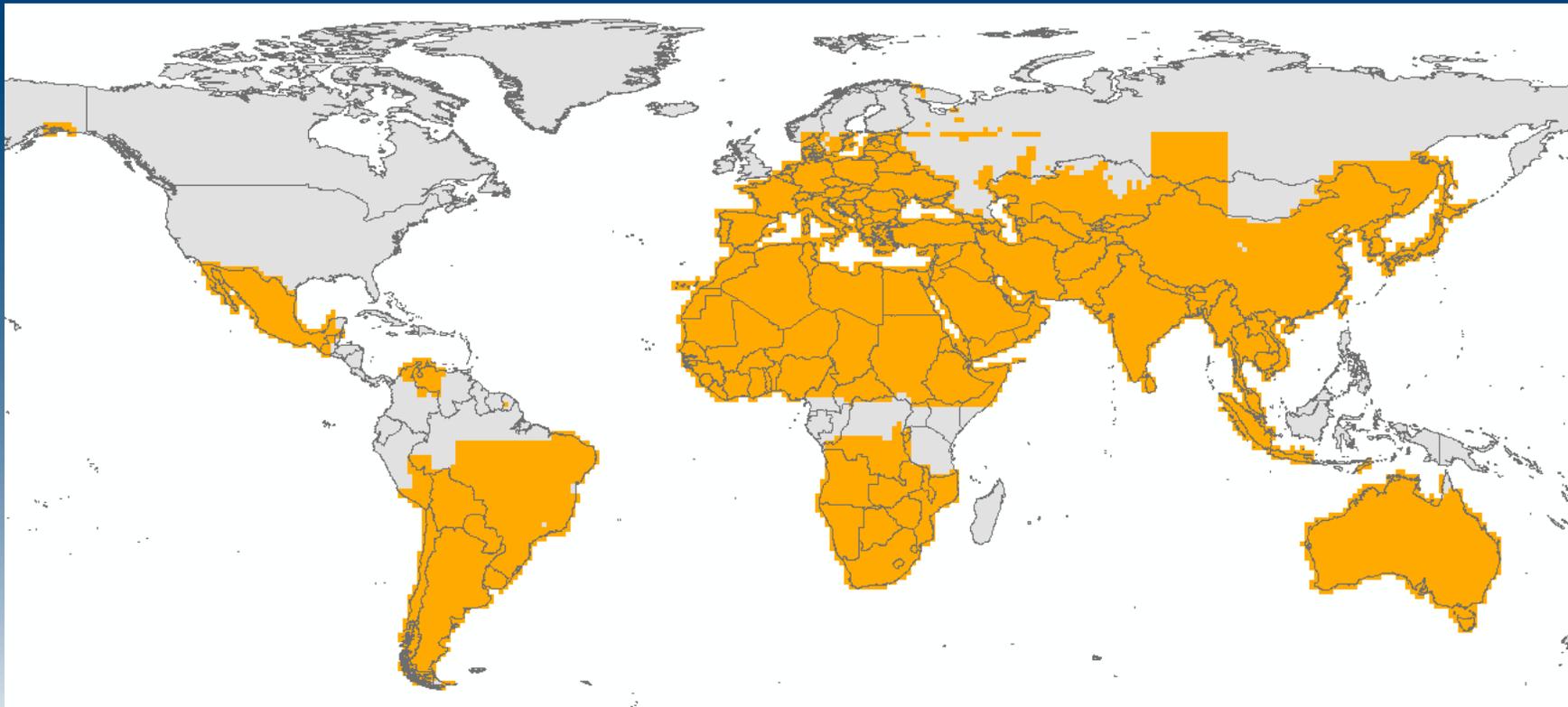
Coverage as of April 2009

Reference3D Alpha

Global Control Point Database



- ☑ 5m B&W Control Image Base Product
- ☑ Specifications 10m CE90
- ☑ Performances 5m CE90
- ☑ Over 55 Millions km² already covered



Coverage as of April 2009

 Reference3D Alpha

SPOT Image - Services



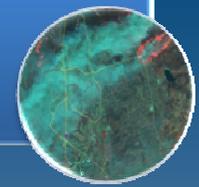
- Ground Station
- Virtual Reception
- SLAs

Satellite Access Services



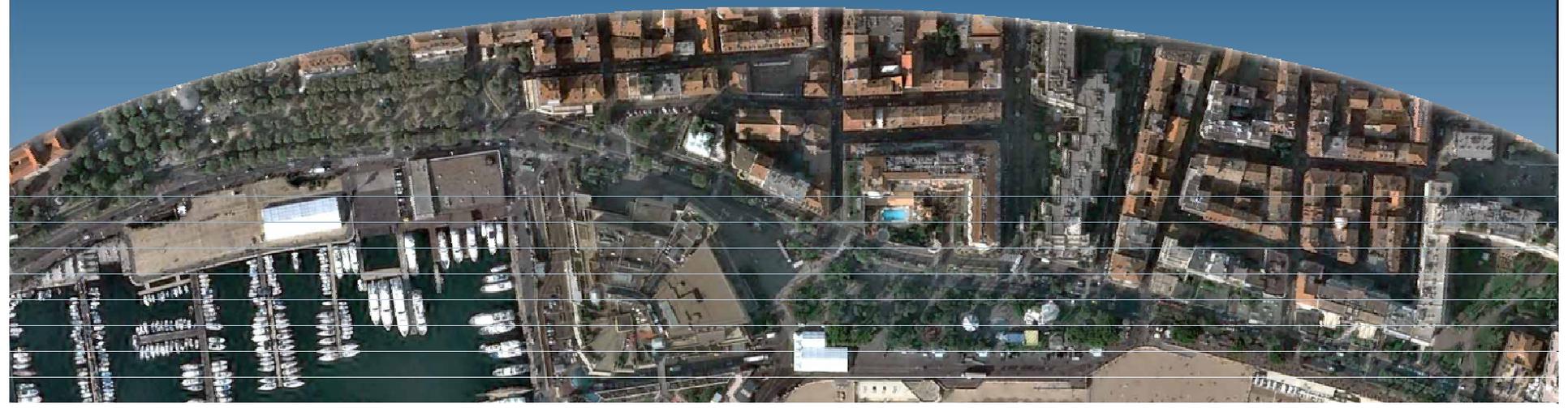
- Disaster Support Services
- Data Streaming Services
- Archive Management Services
- Site Monitoring Services

Imagery Services



- Mobile Solutions
- Data Appliance Solutions
- Google Earth Enterprise

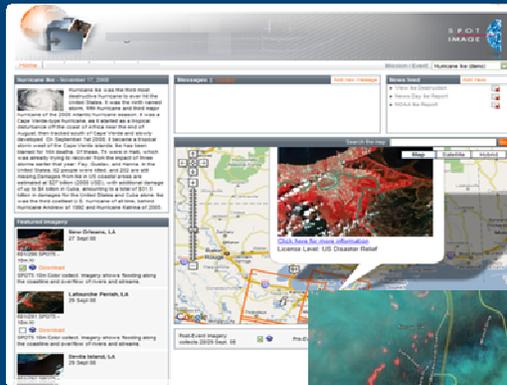
Integrated Solutions



SPOT Supporting Natural Disaster Events



Providing access to time-critical Imagery during disasters



→ SPOT Disaster Management Services:

- A dedicated 24 x 7 x 365 day on-call staff
- Full control of satellite tasking

• Domestic

- ☑ Tornadoes in AR Feb 2008
- ☑ Flood in AR and MO Mar 2008
- ☑ Volcano Eruption HI Mar 2008
- ☑ Tornadoes in VA Apr 2008
- ☑ Sierra Madre Fires, CA Apr 2008
- ☑ Earthquake in NV Apr 2008
- ☑ Floods in Maine Apr 2008

- ☑ Santa Cruz CA fire May 2008
- ☑ Fires in FL May 2008
- ☑ MidWest Floods June 2008
- ☑ CA Fires July 2008
- ☑ Tropical Storm Fay Aug 2008
- ☑ Hurricane Gustav & Ike Sept 2008
- ☑ CA Fires Nov 2008

• International

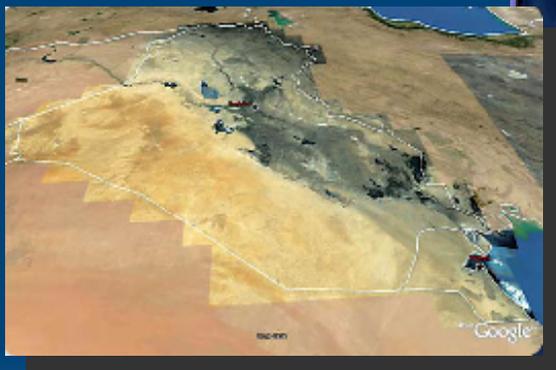
- ☑ Myanmar Cyclone May 2008
- ☑ China Earthquake May 2008
- ☑ And many more

SPOT Globe *For Google Earth Enterprise*



- ☑ Over 60 countries covered – More Coming Each Month
- ☑ Over 20 million km² of 2.5m seamless color mosaics
- ☑ Extensive Global Coverage

- ☑ Fusion-ready
- ☑ Imagery delivered pre-ingested, processed and ready for publishing in GEE



Also Available:

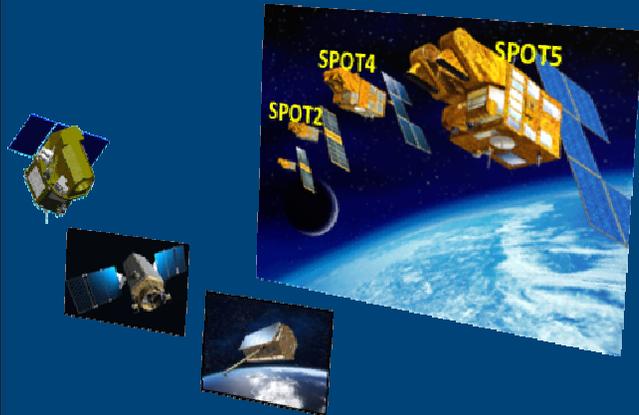
- ☑ Worldwide Landsat-7 dataset
- ☑ 1m USA Nationwide Prime
- ☑ 1m Worldwide Cities

SPOT Satellite Constellation

Assured Mission Continuity

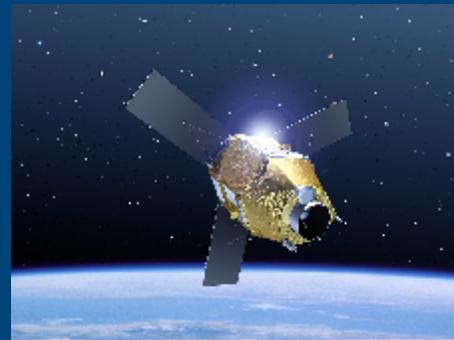


SPOT 2, 4 & 5 Satellites



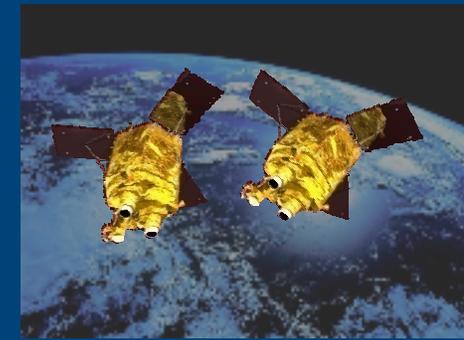
- 3 Satellites currently in operation
 - SPOT2 & 4 10&20m
 - SPOT5 2.5m – 10m
 - 60km swath
- Data Distribution for Formosat-2, Kompsat-2, TerraSAR-X
- 24/7 Operations
- Extensive worldwide coverage, over 20 years

Pléiades 1 & 2



- Very High Resolution
- Dual Program
- 2 Satellites
- Data
 - 70cm Pan
 - 2.8m XI 4-bands
 - 20km of swath
- Automatic 50cm Ortho
- Direct Tasking

SPOT 6 & 7

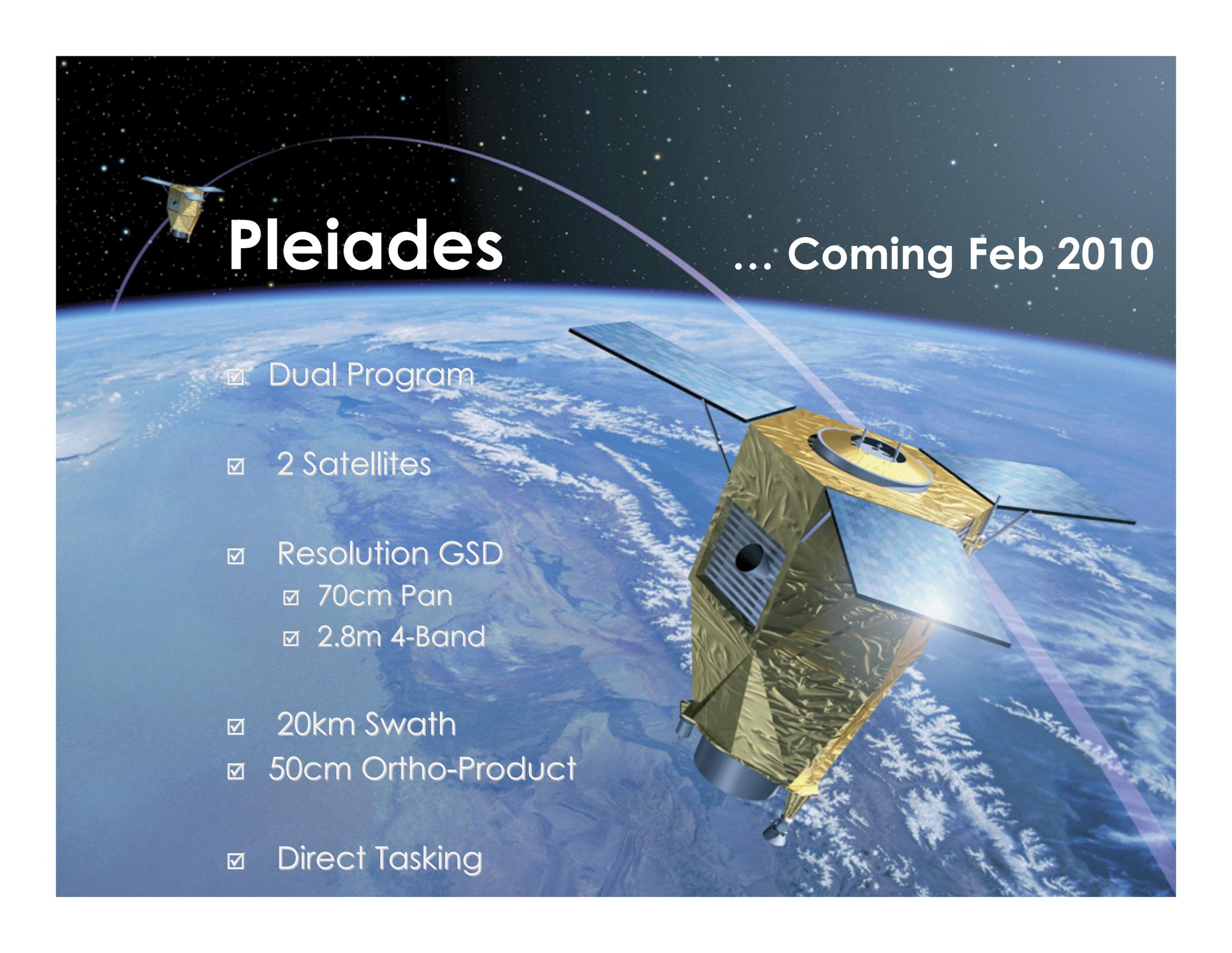


- High Resolution, large Swath
- Privately-funded
- 2 Satellites
- Data
 - 2m Pan
 - 8m XI 4-bands
 - 60km of swath
- Collection: 3M km² / Day
- Stereo Capability

Today

2010 - 2011

2012 - 2013

A detailed illustration of a Pleiades satellite in orbit above the Earth. The satellite is a gold-colored rectangular box with four large, blue, rectangular solar panels extending from its sides. A purple beam of light is shown emanating from the satellite, curving across the sky. In the background, another smaller satellite is visible in a similar orbit. The Earth's surface is shown with blue oceans, white clouds, and brownish-green landmasses. The sky is dark with numerous stars.

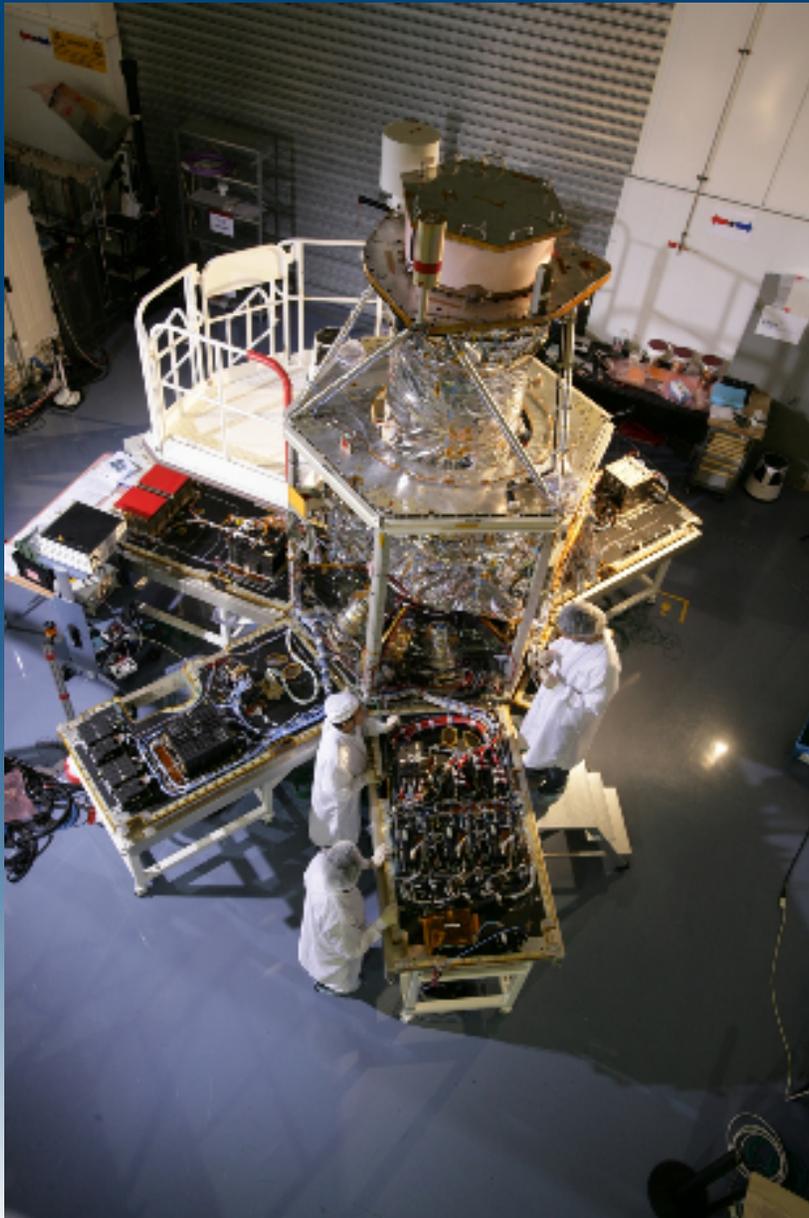
Pleiades

... Coming Feb 2010

- ☑ Dual Program
- ☑ 2 Satellites
- ☑ Resolution GSD
 - ☑ 70cm Pan
 - ☑ 2.8m 4-Band
- ☑ 20km Swath
- ☑ 50cm Ortho-Product
- ☑ Direct Tasking

Pleiades

Satellite Integration at EADS/Astrium



- On-going integration of both Satellites
- Launches:
 - Pleiades-1 Feb 2010
 - Pleiades-2 15 months later



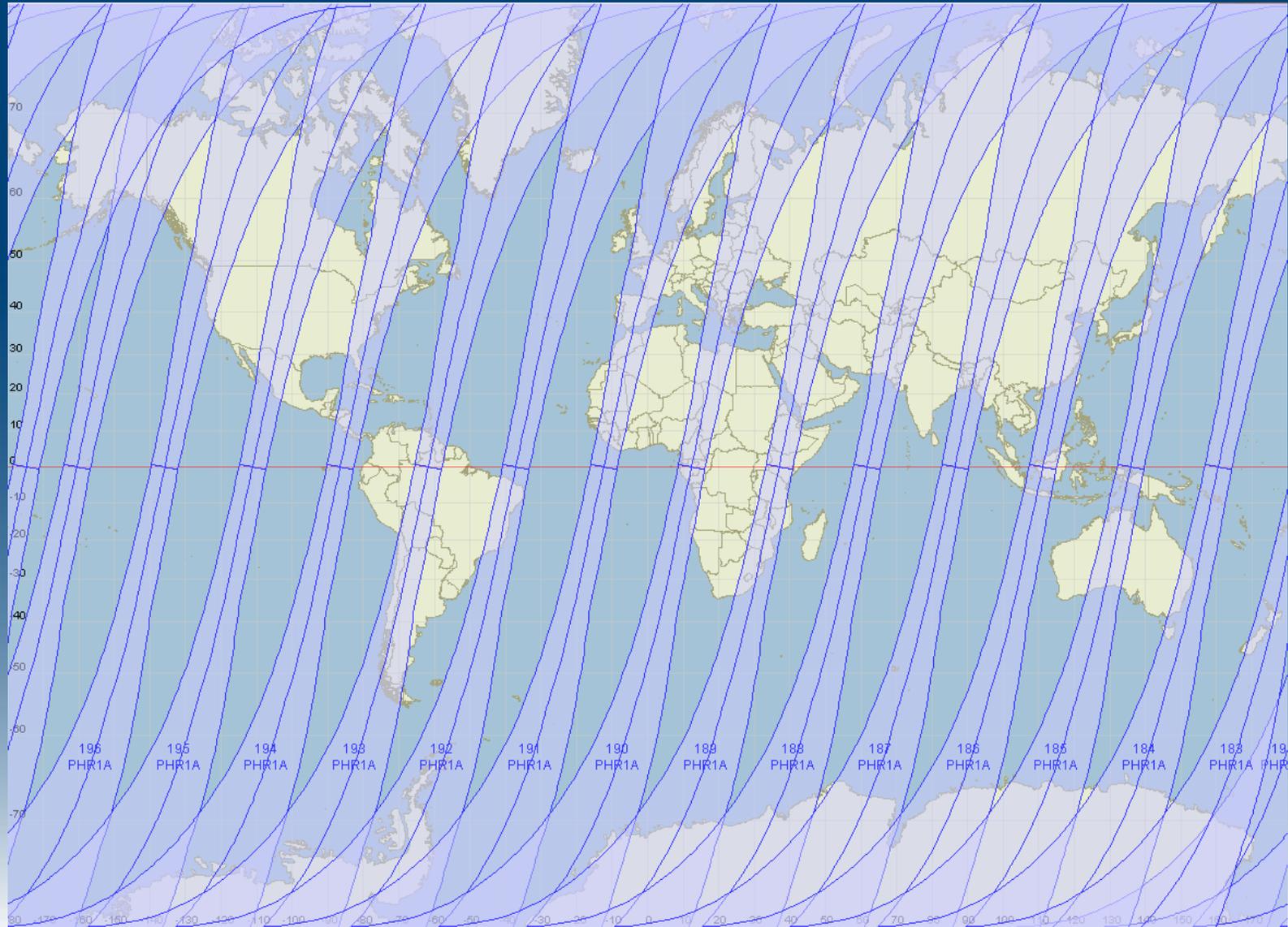
Pleiades Constellation

Daily Revisit



Pleiades 1

Corridor of Visibility for 1 Day



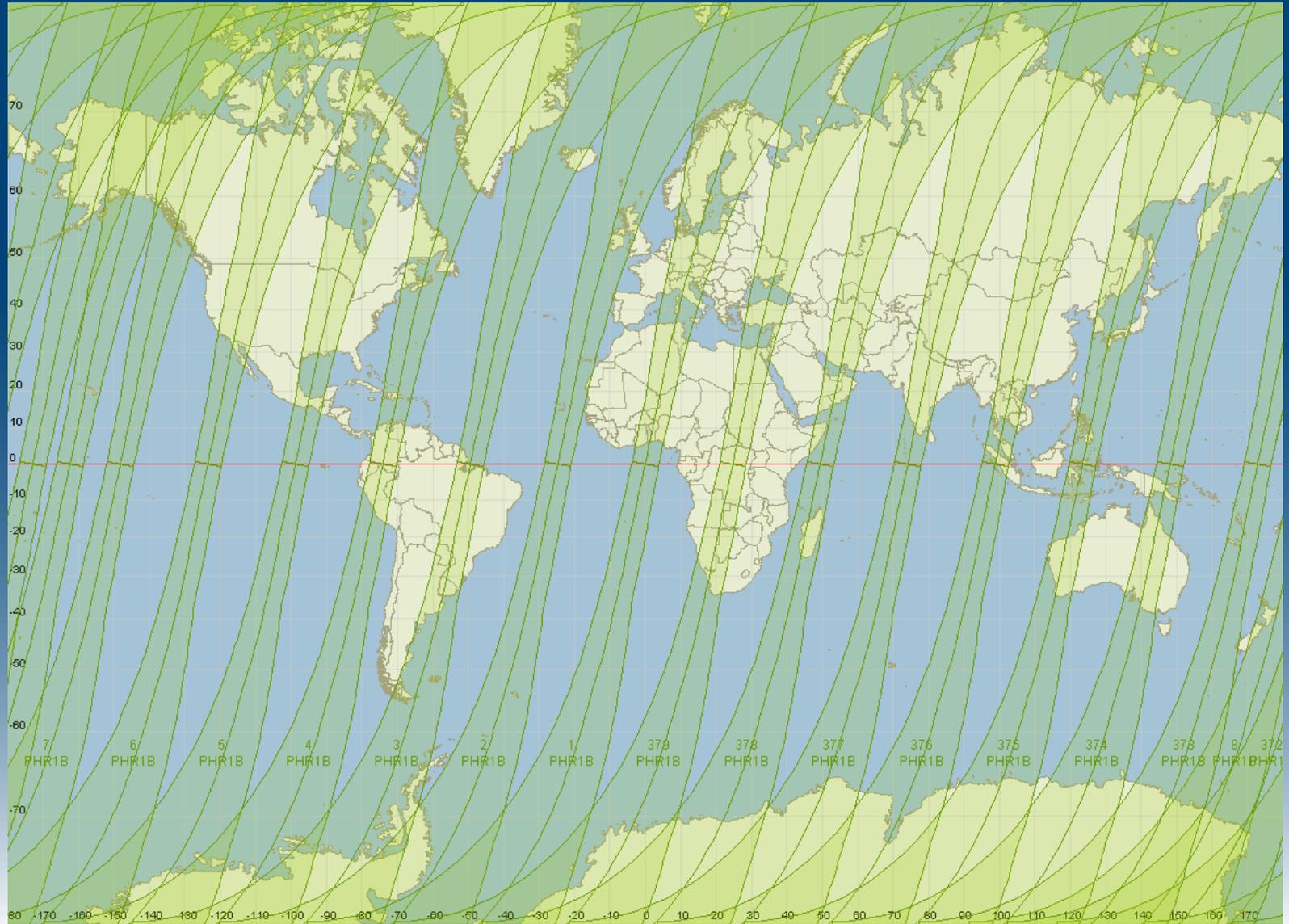
Pleiades Constellation

Daily Revisit



Pleiades 2

Corridor of Visibility for 1 Day



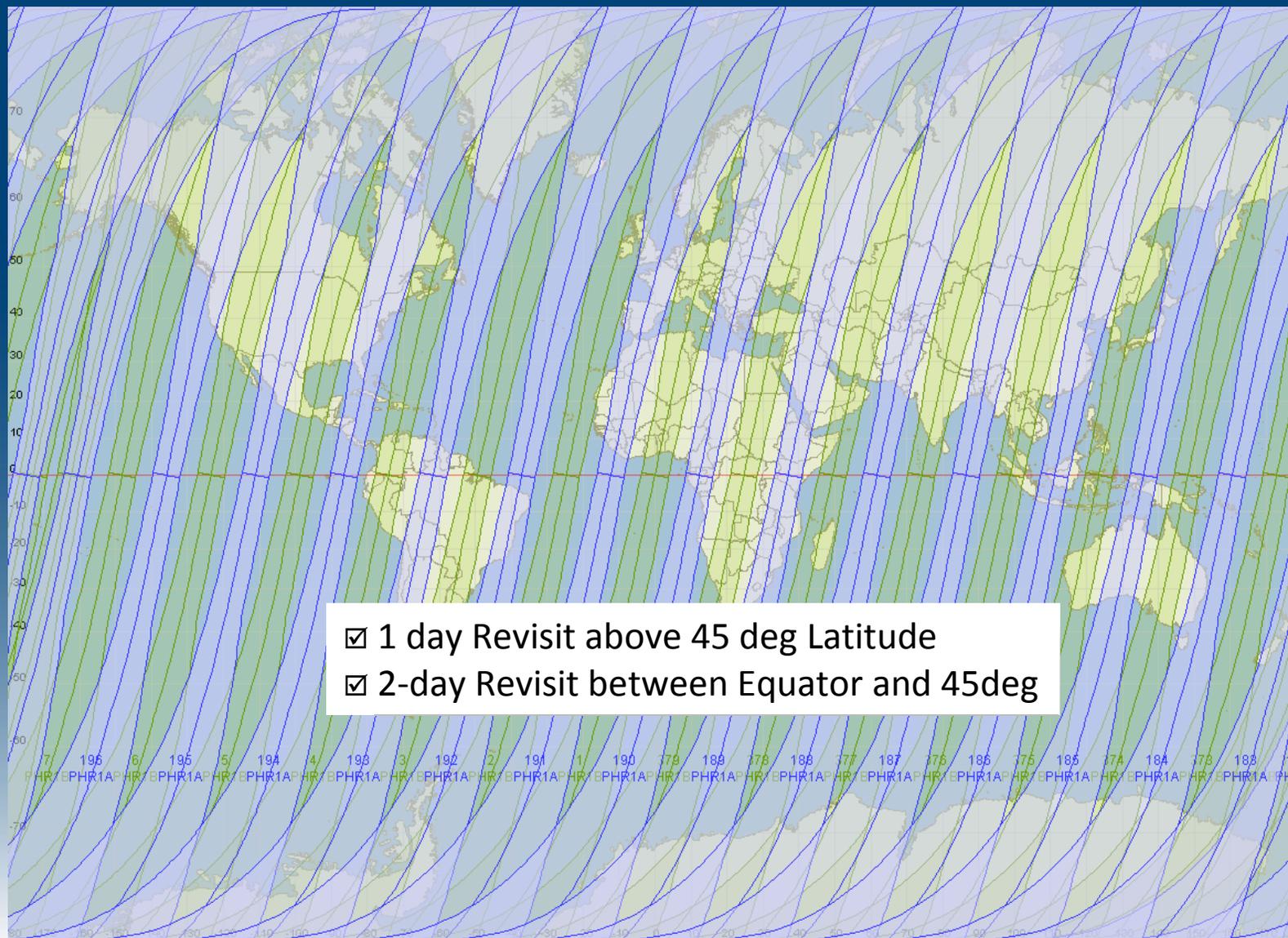
Pleiades Constellation

Daily Revisit



Pleiades 1 + Pleiades 2

Corridor of Visibility for 1 Day



Pleiades – Collection Capabilities



Revisit (2 satellites)

- 1 day revisit at $\geq 45^\circ$ lat
- 2-day revisit at equator

Target Collection

- 20-30 Targets per pass

Strip Mapping

- Up to 70x300km single AOI
"mosaic" collection

Stereo Capability

- Tri-Stereo
- Up to 6,000km² swath per
stereo collection

Direct Tasking

- Up to 40min before actual
Acquisition
- Up-link at horizon

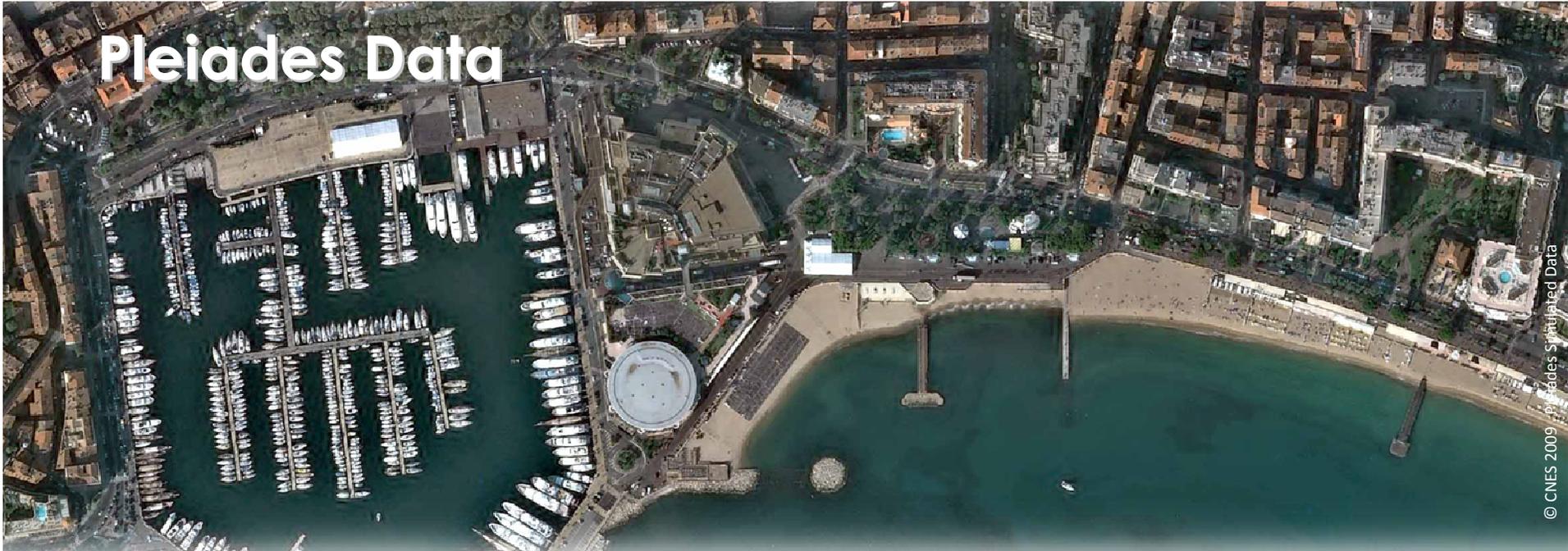
95%

**Satellite Resources
dedicated to the
Commercial Market**

1M+ km²

**Daily Acquisition
Capacity with
2 Pleiades Satellites**

Pleiades Data



© CNES 2009 - Pleiades Simulated Data

Accessing
Pleiades Data



$\$/\text{km}^2$

Service Level
Agreement

Direct Reception
(Ground Station)

AOI-Based

Data Ordering &
Delivery

Color Bundle
P+XS

All Collections

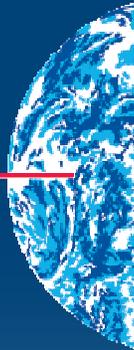
5m CE90

Expected Accuracy
(No GCPs)

50cm
Ortho-Product

Standard Pleiades
Product

S P O T
IMAGE



SPOT Image Corporation
14595 Avion Parkway
Suite 500
Chantilly, VA

www.spot.com

stussi@spot.com

Nicolas STUSSI
Director, Services & Business Development
SPOT Image Corporation