

A satellite is shown in orbit above the Earth's horizon. The satellite is a complex structure with various instruments, antennas, and solar panels. The Earth's surface is visible below, showing a mix of blue oceans and brown/green landmasses. The background is the dark void of space.

European Space Imaging

Discovery Day – Riga – 22.11.2016

Presentation Overview

1. Company Profile
2. Satellite Constellation
3. Local Tasking - Direct Access to DigitalGlobe Satellites
4. Use Cases of Local Tasking



The Company

European Space Imaging

Europe's Leading Very High-Resolution Satellite Imagery Provider

- Established 2002 in Munich, Germany
- Leading provider for very-high resolution (VHR) satellite imagery
- Partnership with Digitalglobe – WorldView Global Alliance
- Own multimission satellite ground station for direct satellite access
- Imagery acquisition and delivery for WorldView Satellites for Europe

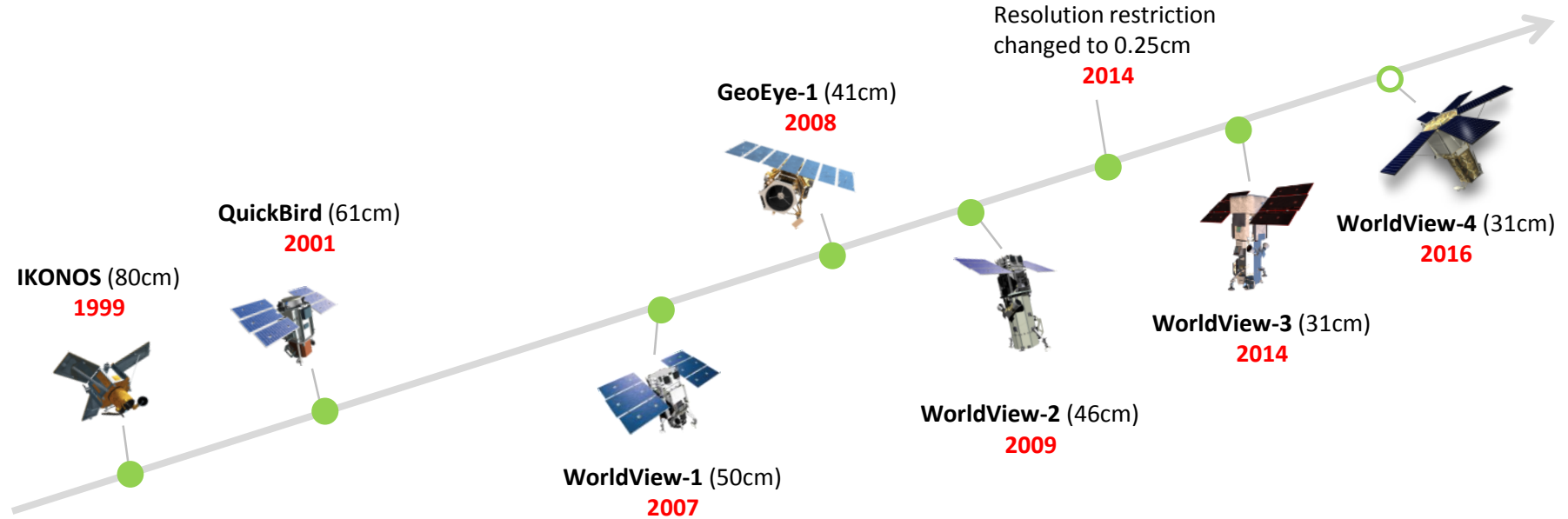


A Few of Our Partners & Customers



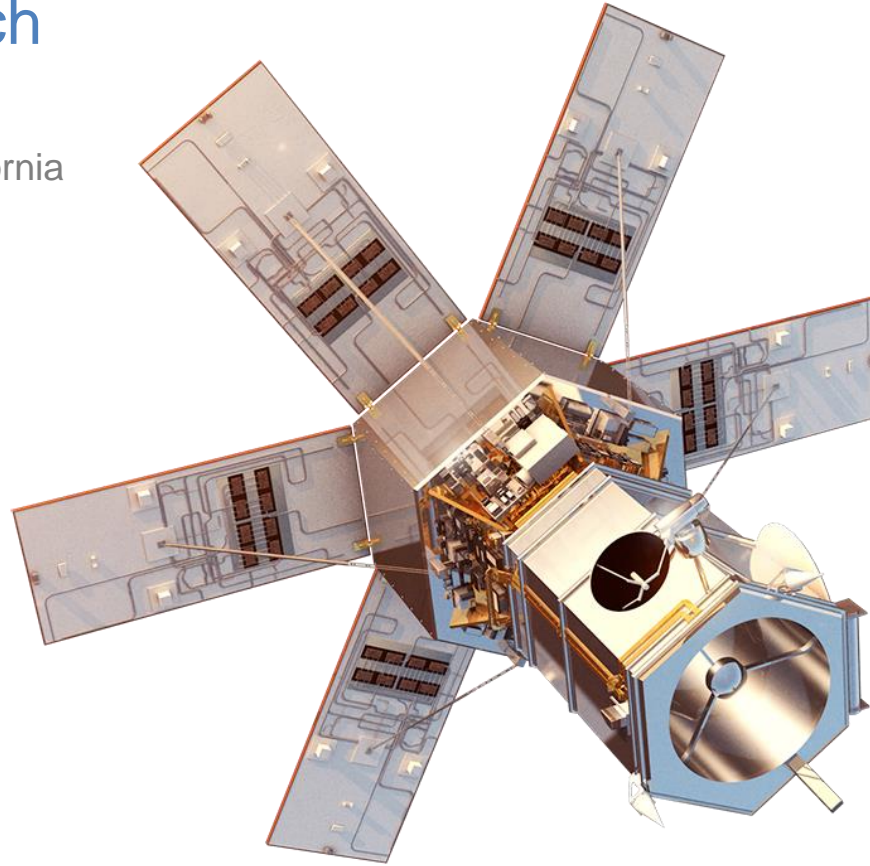
Satellite Constellation

Overview Satellite Constellation



WorldView-4 Launch

Vandenberg Airforce Base, California



WorldView-4 Launch

Friday 16 September 2016 – 1st Launch Date



A small technical issue with ground equipment prevented the launch

WorldView-4 Launch

Sunday 18 September 2016 – 2nd Launch Date



Forest fire prevented 2nd launch

WorldView-4 Launch

Friday 11 November 2016 – 3rd Launch Date



3rd Time is a Success!

Adolfo Suárez Madrid–Barajas Airport | SPAIN



Breskens | NETHERLANDS



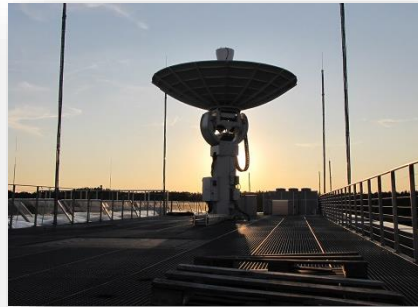
High-Rise in Pudong | Shanghai | CHINA



Constellation Direct Access Facility (CDAF)

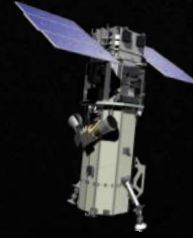
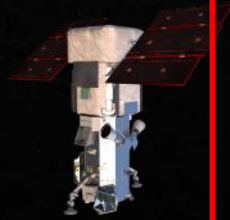
Direct Access Facility & Local Tasking

- Located at Oberpfaffenhofen (Munich)
- Owned by European Space Imaging and operated jointly with DLR
- Direct satellite access, tasking and data uplink and downlink
- Programming of European and global data collections



Satellites We Access Directly from CDAF

30 cm Constellation



WorldView-4

31cm
4-band color
stereo

WorldView-3

31cm
8-band color
stereo
8-band SWIR

WorldView-2

46cm
8-band color
stereo

WorldView-1

50cm B/W
stereo

CDAF Reception Cone

1-3 passes per day
per satellite

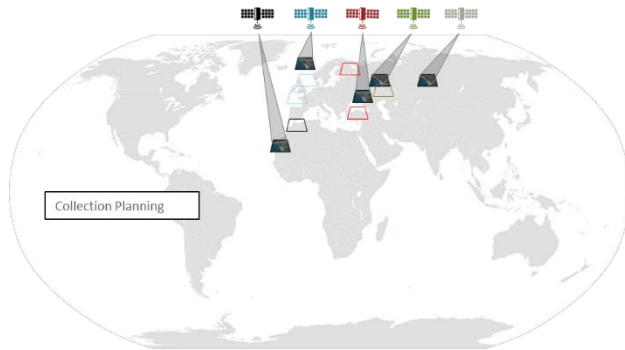
Daily constellation
revisit rate over
Europe



Advantages of CDAF

Highest local tasking capacity and flexibility

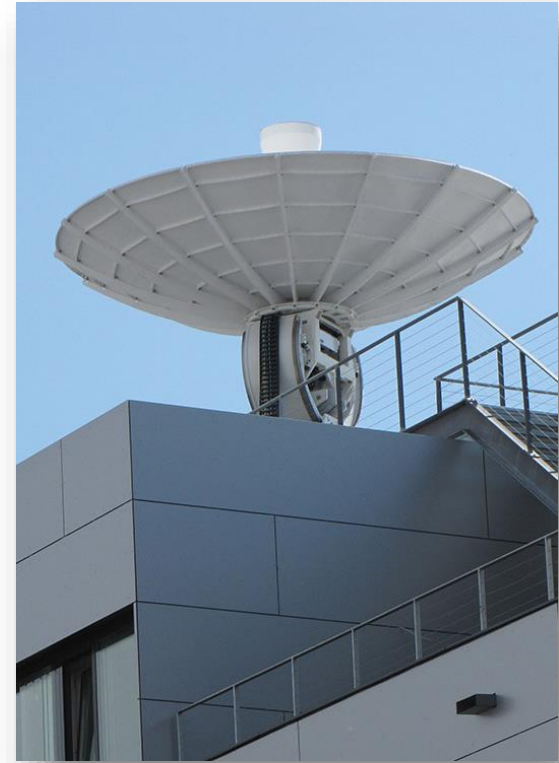
WorldView-1,-2,-3,-4 and local planning for GeoEye-1



Rapid collection, downlink, production and Delivery

Direct image production at European Space Imaging CDAF

CDAF features latest technology hardware and software



Advantages of Local Tasking

Feedback during imaging planning

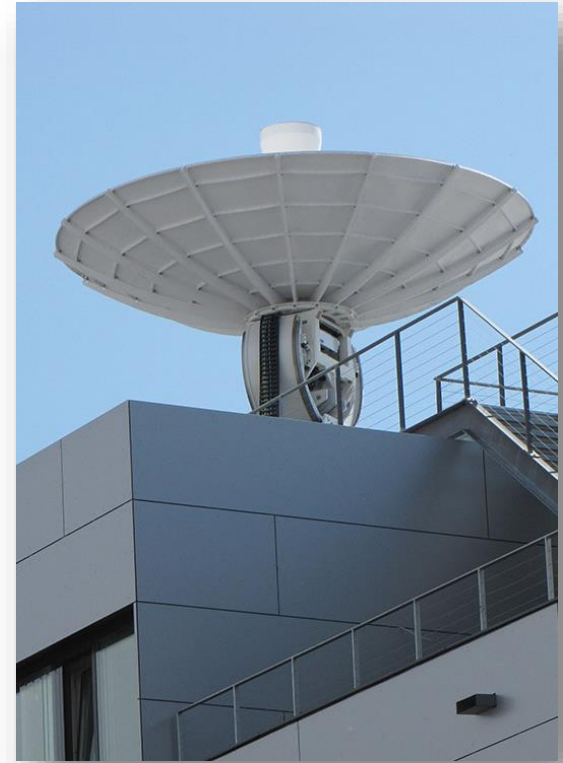
Last minute information incorporated into collection plan

Very detailed imaging planning possible

Up to 4 hrs spent per pass to optimize collection plan

Real-time weather information

Maximizing collection targets



Success Stories

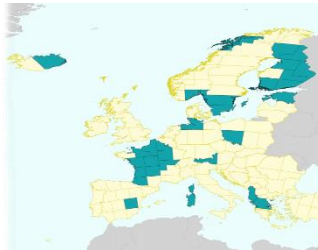
ESA Copernicus

Programme Overview

- European Earth Observation Programme funded by European Commission
- Pushing the European market for space related industries
- Imagery Data offered through different services: Standard, emergency, core, etc.

Our Success Stories

- Access to our satellite constellation through Copernicus Data Warehouse
- Offering 24/7 support for emergency services (New Acquisitions to be made within 72h, delivery below 24 hours)
- Delivering image coverages over European Countries and urban zones (> 1.500.000 Mio Km² of data)



European Maritime Safety Agency

Near Real-Time Maritime Mapping using Optical VHR satellite Data

Customer: European Maritime Safety Agency (EMSA)

Project: OpSSERVE (Optical Satellite Services for EMSA)

Exclusive Framework Contract (2012-2015):

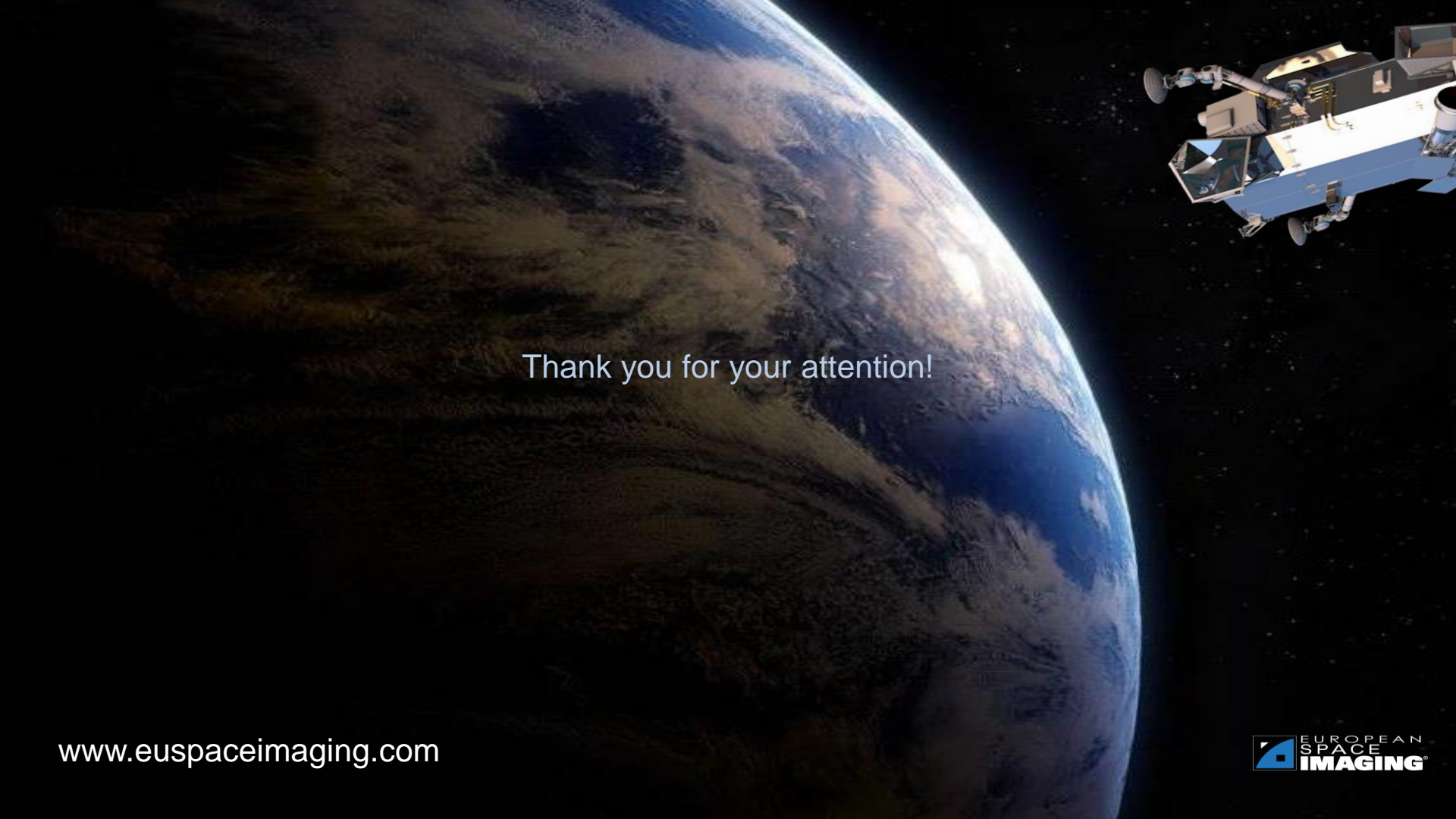
Global access to imagery + Value added information

- (1) *Vessel detection*
- (2) *Activity detection (pollution, drug trafficking, border control,...)*
- (3) *Change Detection*

Delivery categories (from satellite sensing to EMSA's CSNDC):

- *non NRT (global): 24 hours*
- *NRT (over Europe): 45 minutes*





Thank you for your attention!

www.euspaceimaging.com

