





## High Resolution Photogrammetry from Space - What input can we expect ?

GAFAG

WorldView-1 WorldView-2 Pléiades-1A/1B GeoEye-1 GSD (Nadir) 0.7 m 0.50 m 0.46 m 0.41 m Products 0.50 m 0.50 m 0.50 m 0.50 m Pan & 4 MS Pan & 4 MS Bands Panchromatic Pan & 8 MS 11-bit 11-bit 11-bit 12-bit Dynamic Range 17.6 km 16.4 km 15.2 km 20 km Swath (Nadir) 10s for 200km Agility (Slew) 10s for 200km 18s for 200km 11s for 200km 5 m (specification) horizontal 5 m (specification) 5 m (specification) 8.5 m (specification) Product 3.8 m (provider 3.5 m (provider 3.5 - 4.5 m (provider Accuracy monitoring) monitoring) monitoring) (CE 90) Digitalglobe / USA Astrium / France Digitalglobe / USA Digitalglobe / USA September 6, 2008 December 17, 2011 September 18, 2007 October 8, 2009 3 December 1, 2012

Characteristics of current commercial VERY HIGH RESOLUTION Satellites:



Source: DigitalGlobe

Example: Agility and collection capacities WorldView-2 – Rio de Janeiro / 19JAN2010 / 29 images from one orbit





## Example: WorldView-2 (Munich): Convergence angle and number of looks for two overlapping stereo images











Image

24° Stereo

## 12° Stereo

Blue color indicates unmatched or occluded areas.

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