



ISIS – Innovative Solutions In Space
Small Satellites as a defense and security tool

Innovative Solutions In Space

the nanosatellite specialist



Established in 2006

Small satellite company (1 – 30 kg)

Vertically integrated organization

- Research and development
- Components and subsystem production
- Satellite mission design and implementation
- Satellite launch services
- Satellite operations

- 75 FTE based in Delft, The Netherlands



Nanosatellites and CubeSats

modular spacecraft



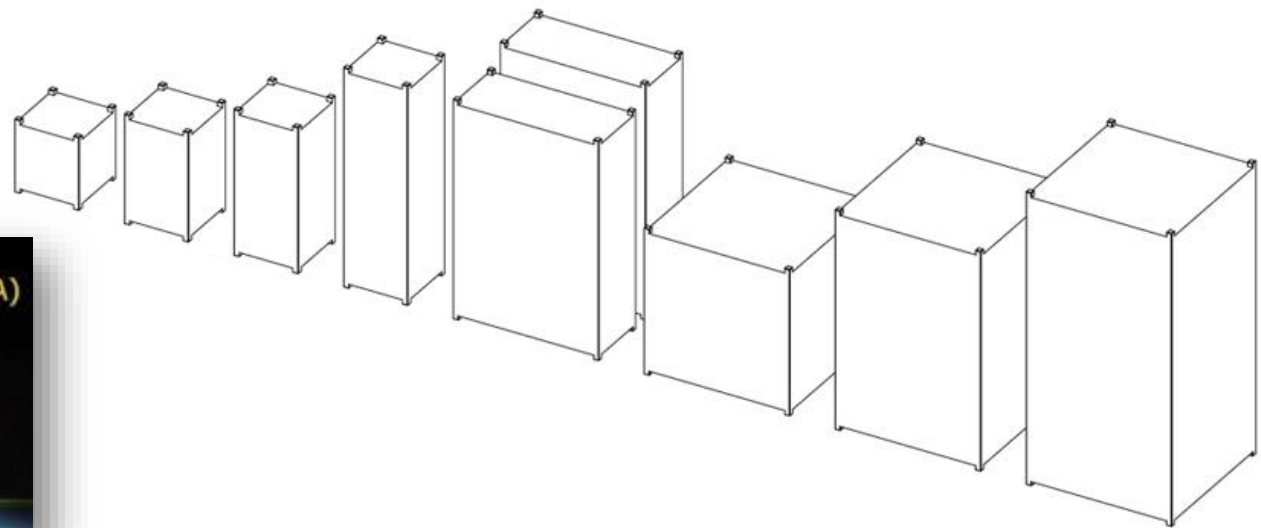
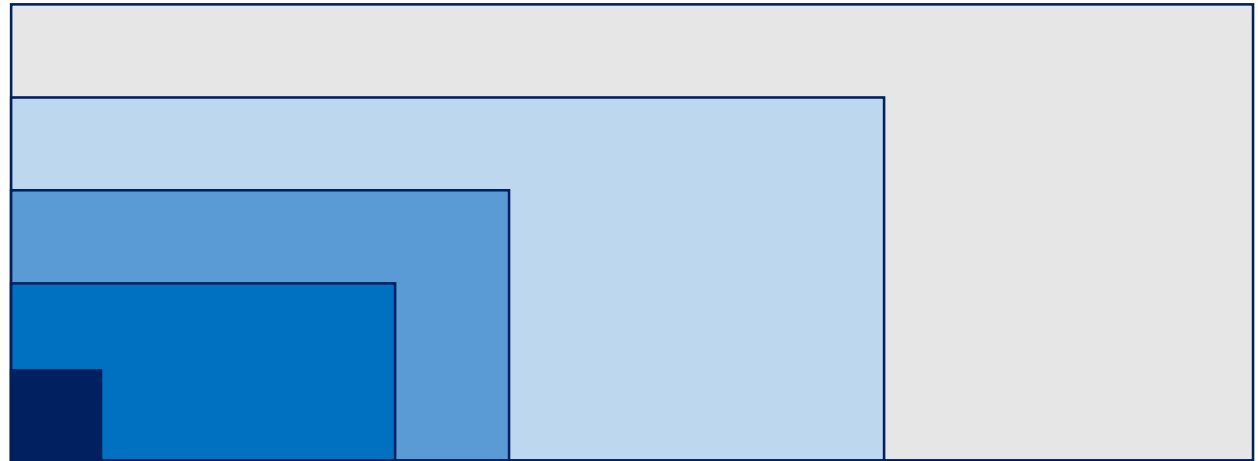
< 100 kg Microsat

< 50 kg Small Microsat

<24 kg Large Nanosat (12U CubeSat)

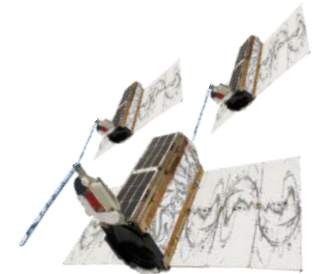
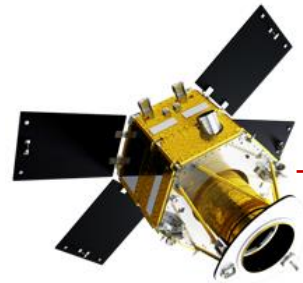
<10 kg Nanosat (6U CubeSat)

<1 kg Picosat (1U CubeSat)



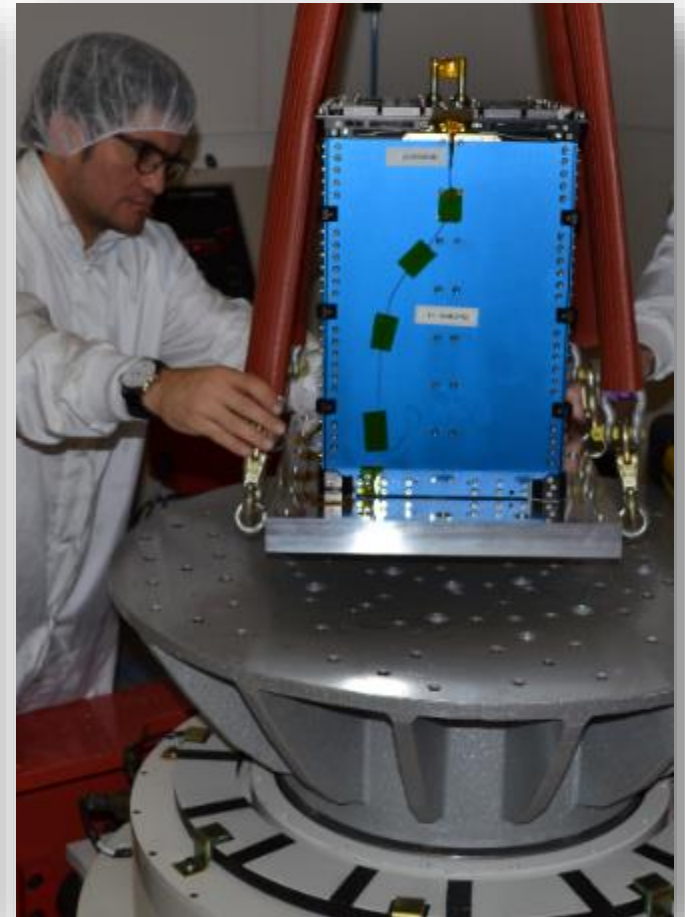
The nanosatellite 'revolution'

disruptive concepts in the space sector



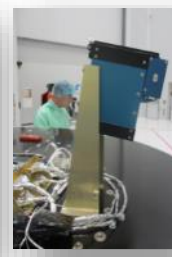
Satellite solutions

one-stop-shop for small satellite missions



Launch services

It's our mission to launch yours



15 February 2017



PSLV-C37 / ISILaunch17

ISILaunch17

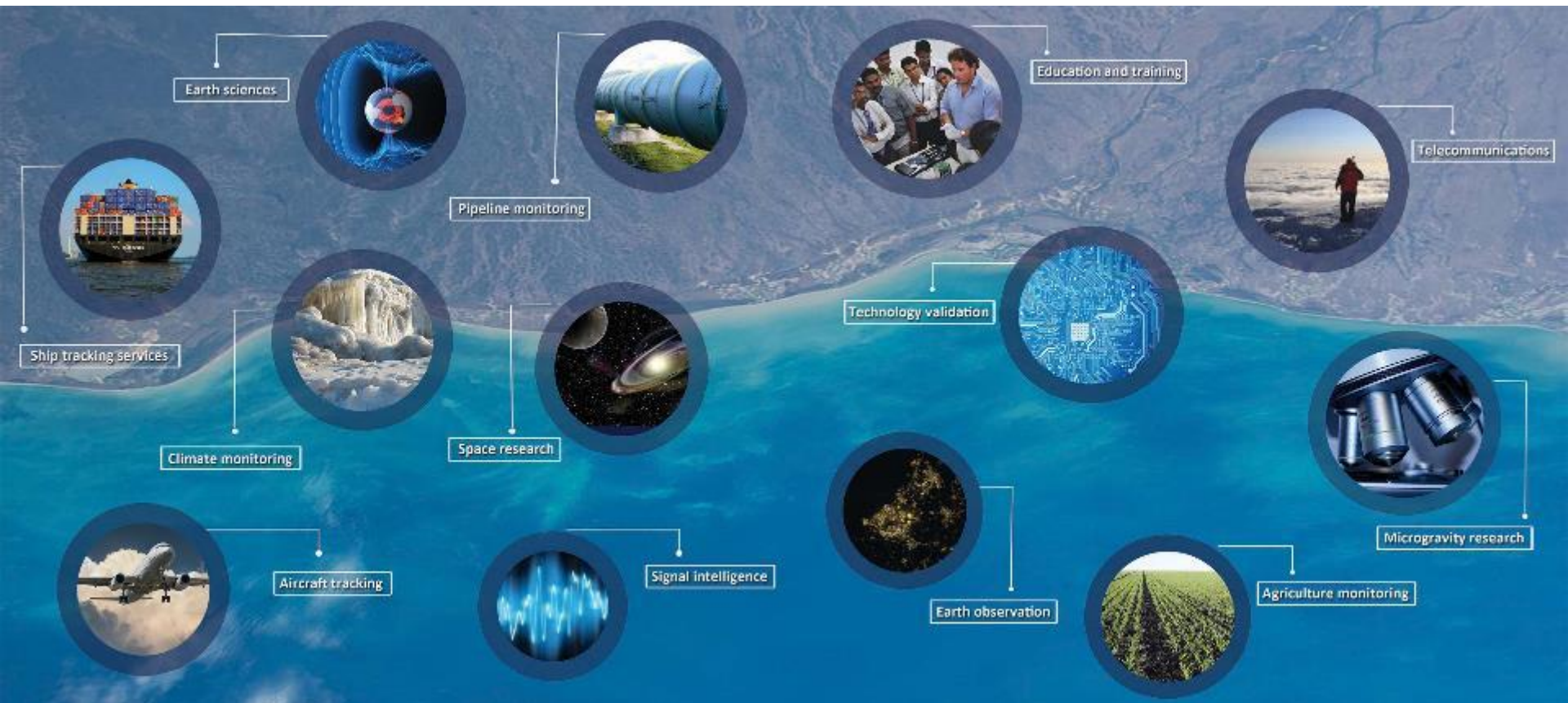


ISL Payload Mass:	646kg
Total payload mass:	1378kg
Record number of payloads through ISL:	101
Record timeline from contract to launch:	5 months
Record last minute payload addition:	L-6 weeks
ISL's 7th launch involving PSLV	
All interface hardware delivered by ISIS/ISL	

**World record
of most satellites
on a single launch**



Applications and services nanosatellites enable many applications





Small satellites for Defense and Security?



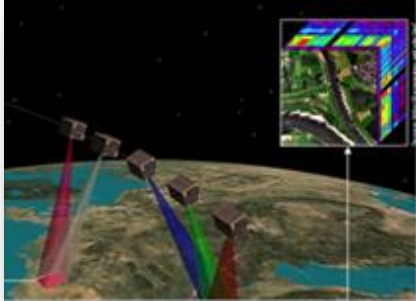
Own your own dedicated space assets

Have exclusive access to remote sensing data or communications capability



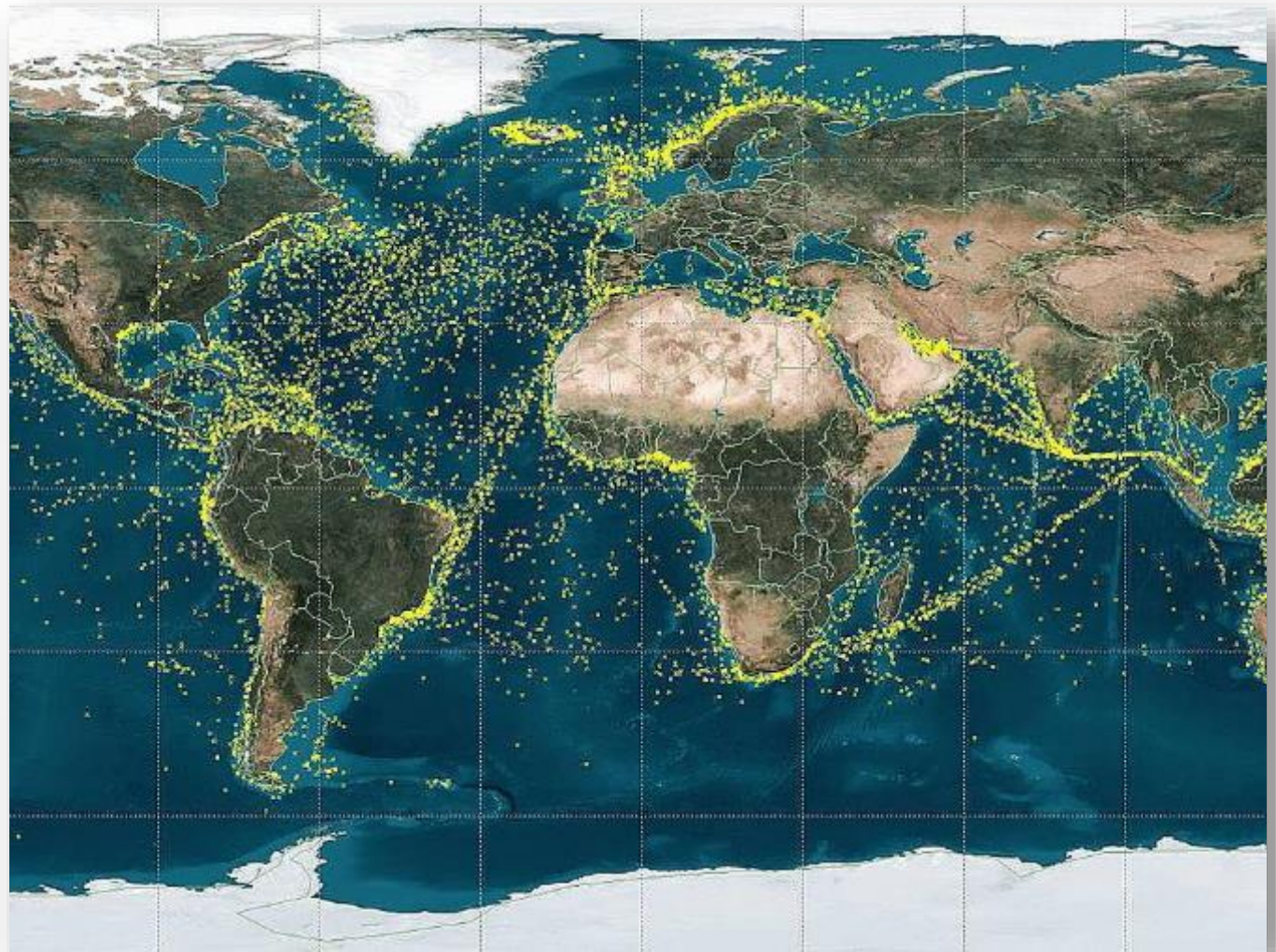
Enabling Communication In Remote Areas

Low orbiting satellite network for communication worldwide



Mapping the world, continuously

Supporting operational processes with up to date remote sensing data



Global Asset Tracking From Space

Satellite AIS network, ADS-B for Aircraft Tracking, Fixed or Mobile Assets

A case for small satellites #1

Asset Tracking Constellations



A case for small satellites #2



Narrow-band Communications Constellation

A case for small satellites #3

Signal Intelligence Missions



A case for small satellites #4

Earth Observation Constellations



Common Themes



Common themes



Access to Space




Power efficiency



Conclusions



A close-up photograph of a technician wearing white gloves and a blue lab coat, using a screwdriver to work on a small, gold-colored satellite component. The component is mounted on a black frame and has two red caps. The background shows a clean, professional workspace with various tools and equipment.

Thank you for your attention!

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www.isispace.nl | www.isilaunch.com | www.cubesatshop.com