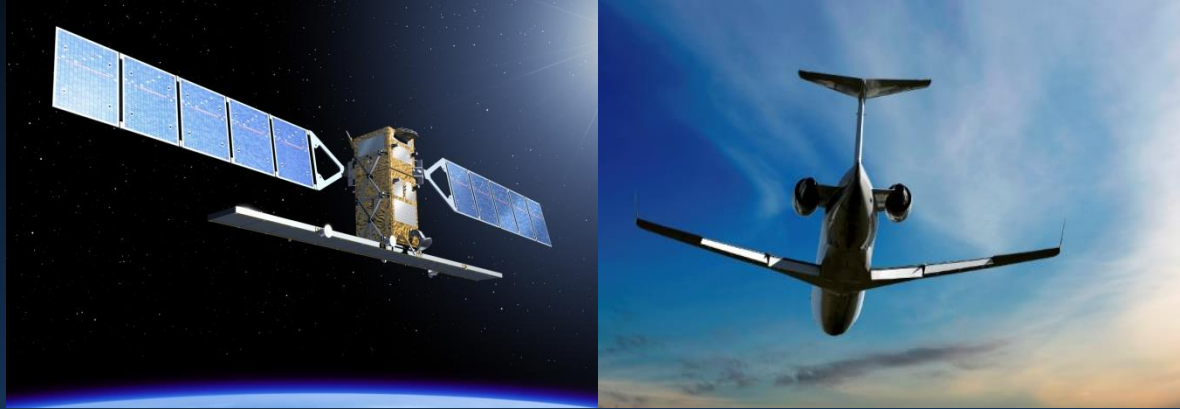


# Airborne



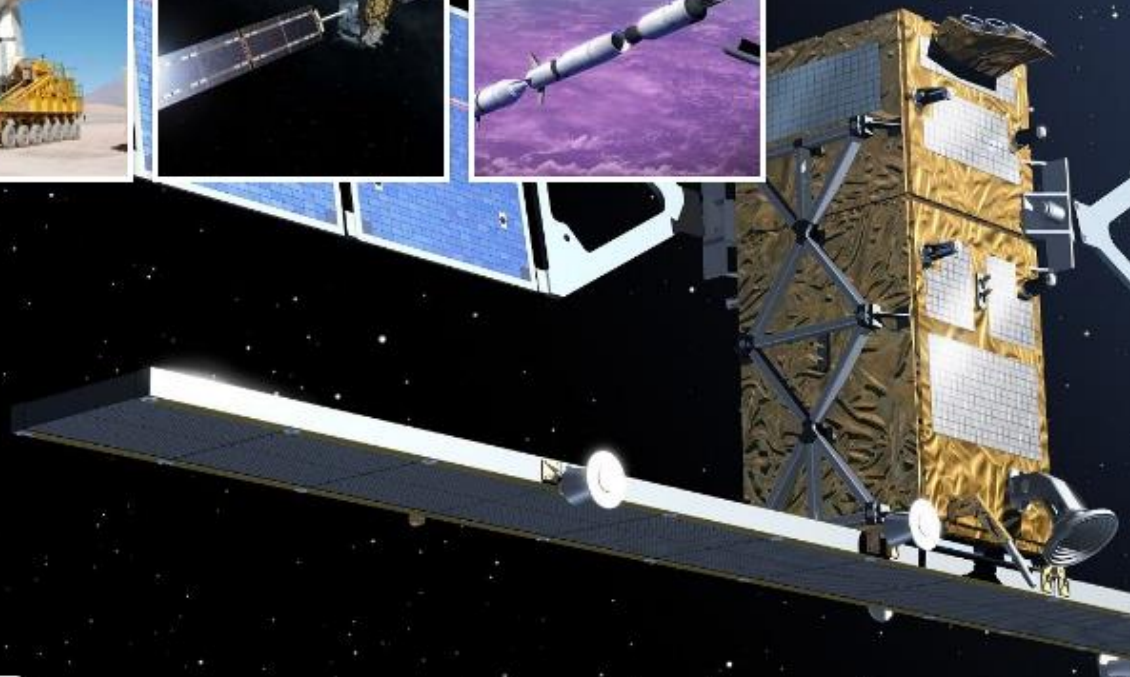
## Affordable Panels for Satellite Mega-Constellations

ZIE - Holland Instrumentation

27 March 2018 Leiden

# Airborne composite Space signatures

- 20 year composite heritage
- European market leader solar-array substrate panels
- Solar-array substrate panels:
  - > 200 flight panels delivered
  - > 100 panels flying in-orbit
- Flying on Galileo FOC, Sentinel 1 and 2, and many others
- Currently in production: JUICE, MetOp-SG, Galileo FOC and Jason-SC



# Solar-array substrate panels

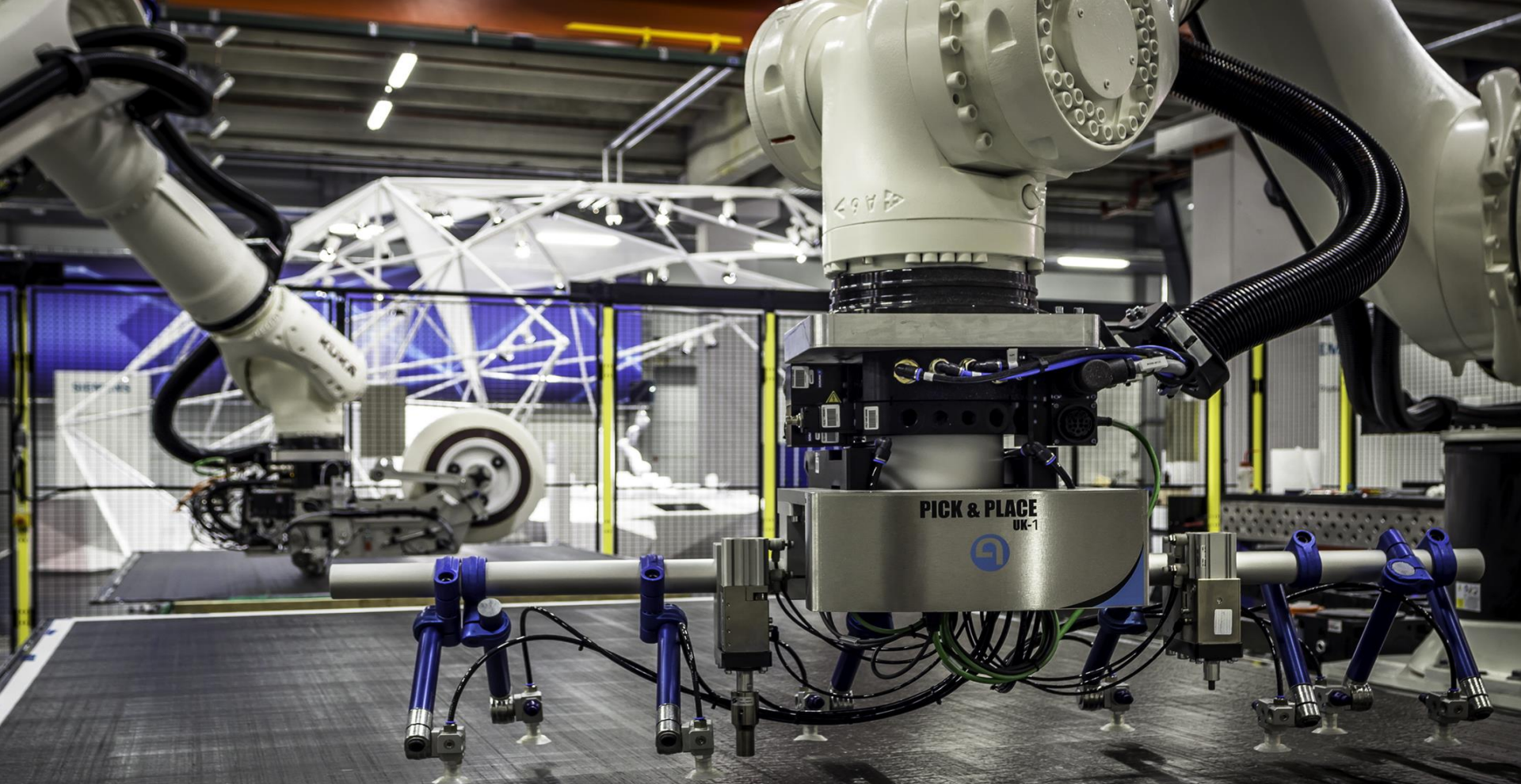
## Market leader in Europe





Vision:  
Become leader in  
automation technology for  
composites manufacturing

Heritage:  
20 years experience  
in composites design and  
manufacturing



**Smart automation at low CAPEX**  
**Flexible and transferable robot lines**



# Innovation through partnerships and collaboration

**Airborne**  
Composites Automation

سابك  
**salbic**

Advanced Thermoplastic  
Composites

**SIEMENS**  
Digital Factory



**KUKA**  
Advanced Robotics  
& System Integration

# Affordable panels for mega-constellations

## Making a real step-change in price level

Solar Panels

A 3D rendering of a satellite in space. The satellite has a central body with a yellow thermal blanket, a white cylindrical antenna, and a parabolic dish. Two large solar panels, depicted as grids of blue squares, are extended from the sides. A white arrow points from a blue callout box labeled 'Solar Panels' to one of the solar panel arrays. The background shows the Earth's horizon and a starry space.

*We All Need Access  
But half the world has no way to  
connect.  
OneWeb is on a mission to bridge  
the digital divide by 2027.*

# Airborne