New perspectives in emergency mapping: toward new satellite constellations and 3D data enabling digital twins



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IRIDE Space programme

The team of Italian excellences

upstream

Argotech →10 satellites;

Ohb Italia →12 satellites

Thales Alenia Space →7 : specifically, these are 6 satellites with SAR (synthetic aperture radar) technology and one optical.

SITAEL →4 satellites with hyperspectral optical instrumentation

D-Orbit →1 satellitehigh resolution images, which uses microwave technology, for detection at night or in the presence of clouds.

downstream

e-GEOS →the infrastructure for access to IRIDE data and services by users: (Leonardo, Telespazio,



The launches of the IRIDE satellites will begin in 2025. For now, 2 Vega-C launches have been commissioned to ArianeSpace which will take place from the European spaceport in French Guiana.




Perspective 30°
Snap: Axis, 2D
faces: 10,387,696 vertices: 5,202,250
Y
Z
X