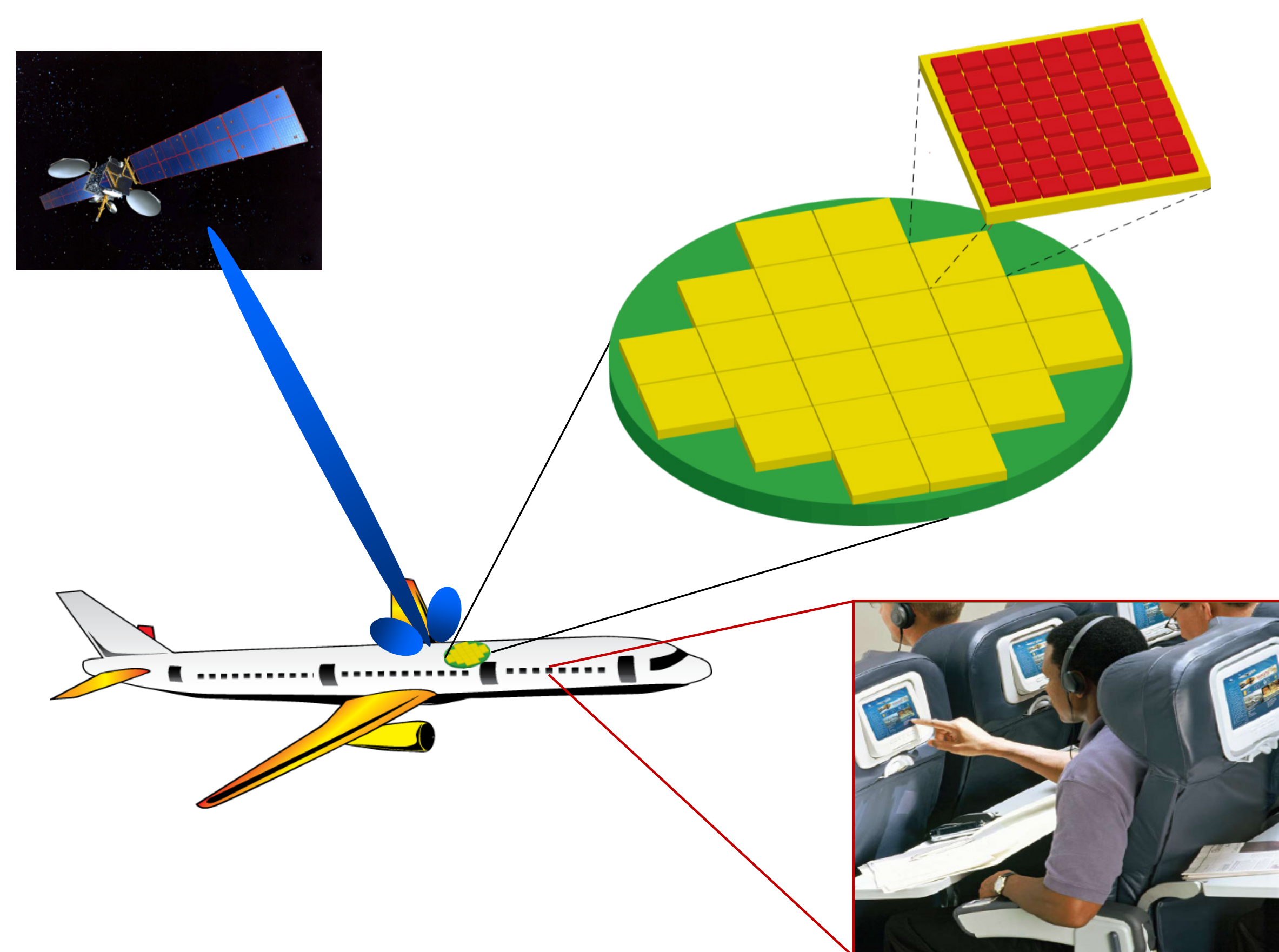


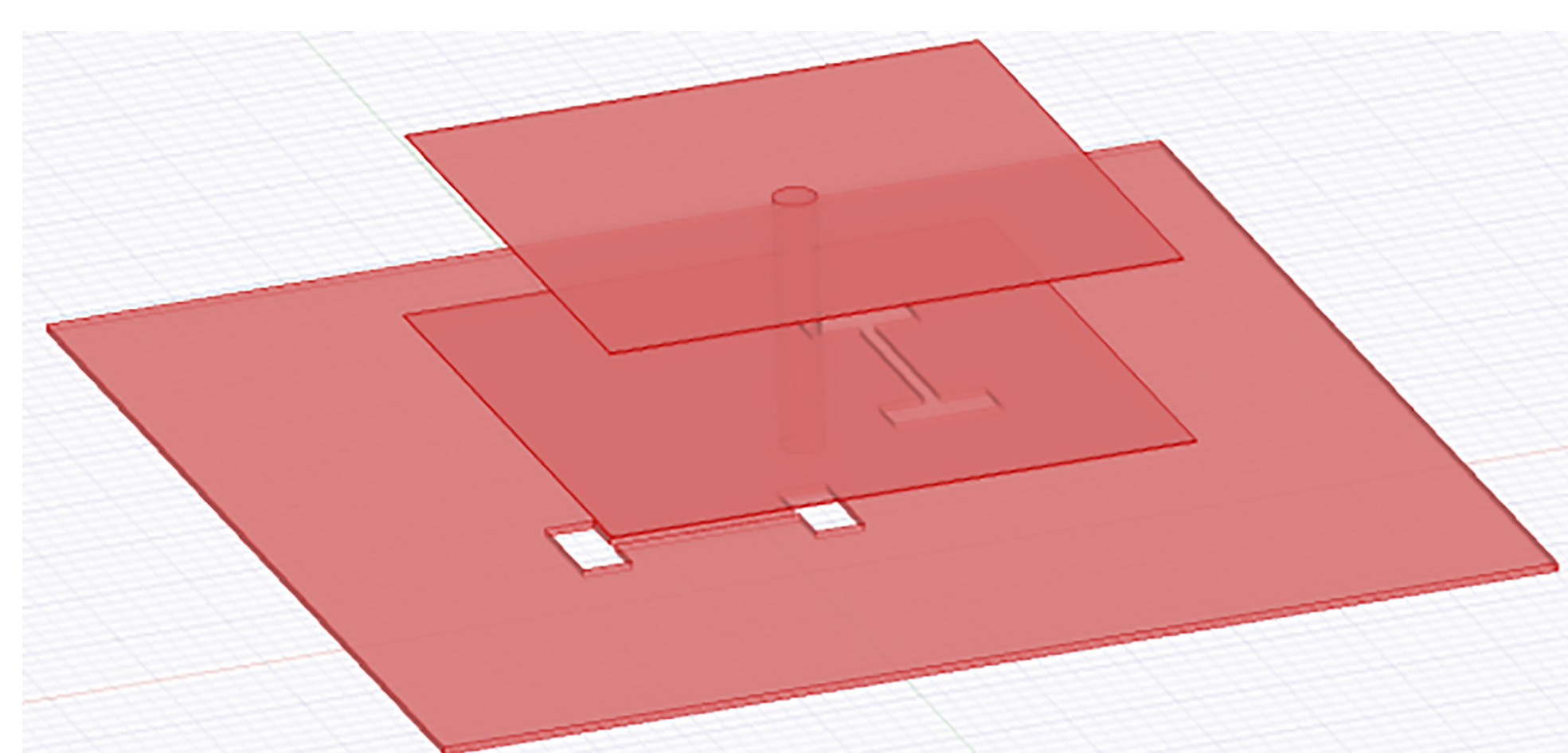
## Advanced Concepts for Aero-Structures with Integrated Antennas and Sensors

### WP 2 - smart SATCOM FUSELAGE Panel Integration of a conformal Ku-band distributed antenna array

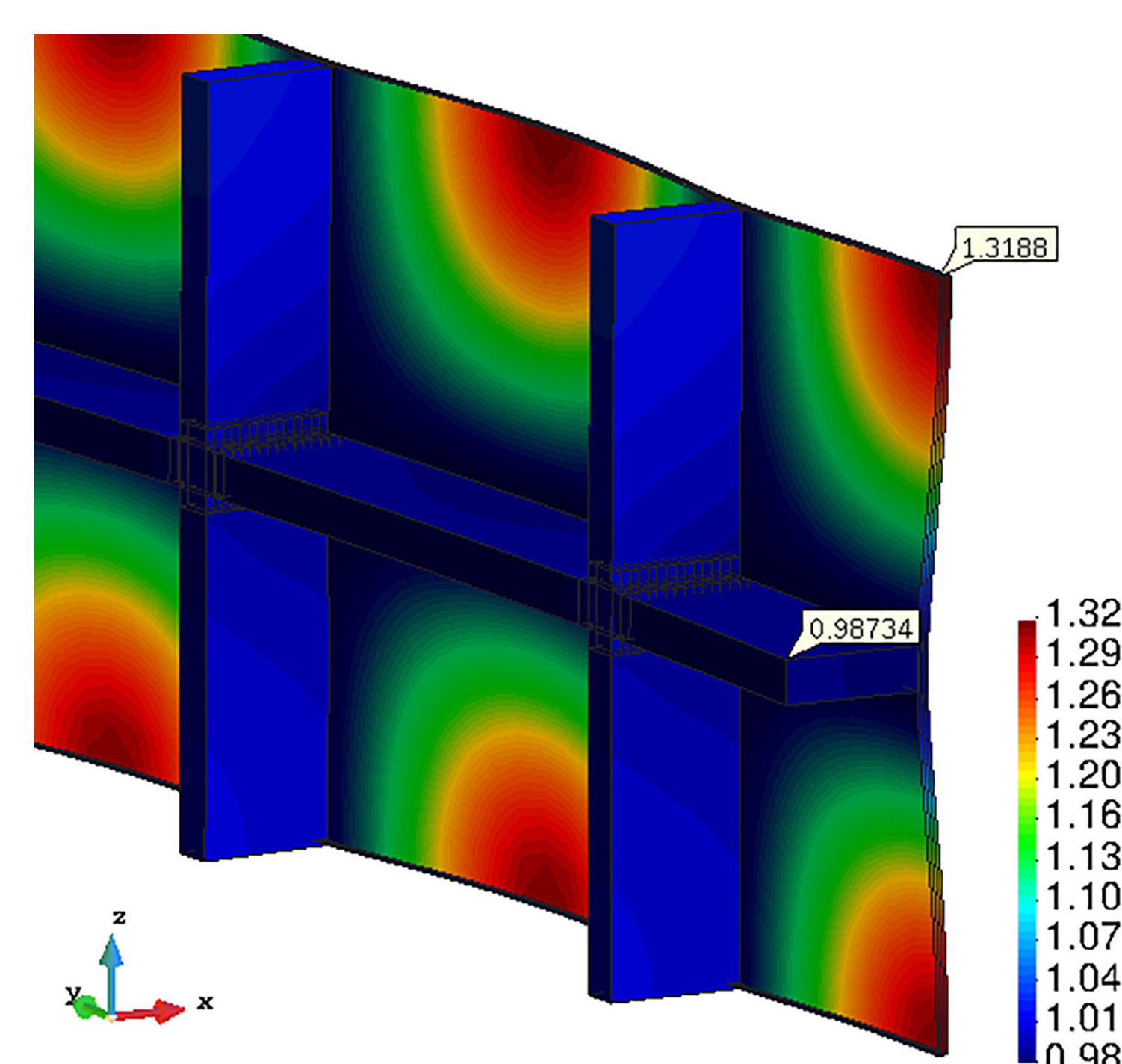


#### RESEARCH TOPICS:

- Structural design, manufacturing and testing of orthogrid and hybrid skin
- Development of antenna tiles
- Cooling technology for active RF components
- Lightning protection of antenna

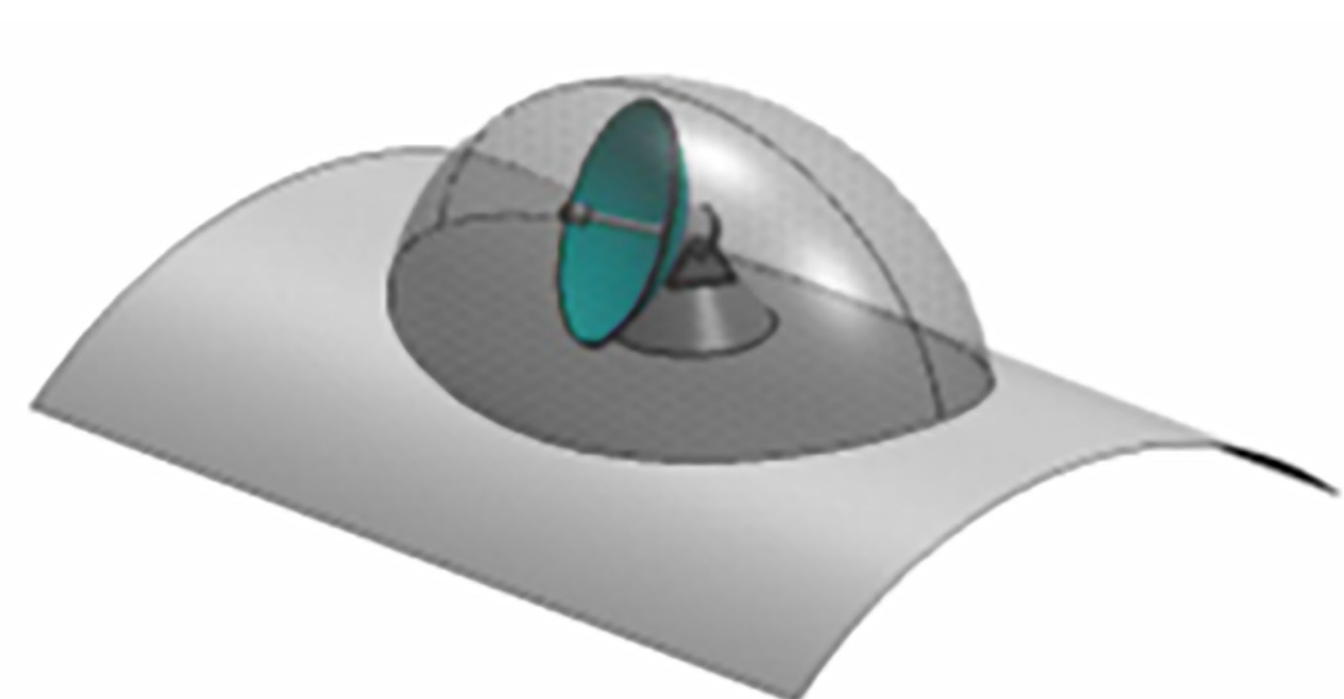


Stacked patch antenna elements



Structural analysis of orthogrid

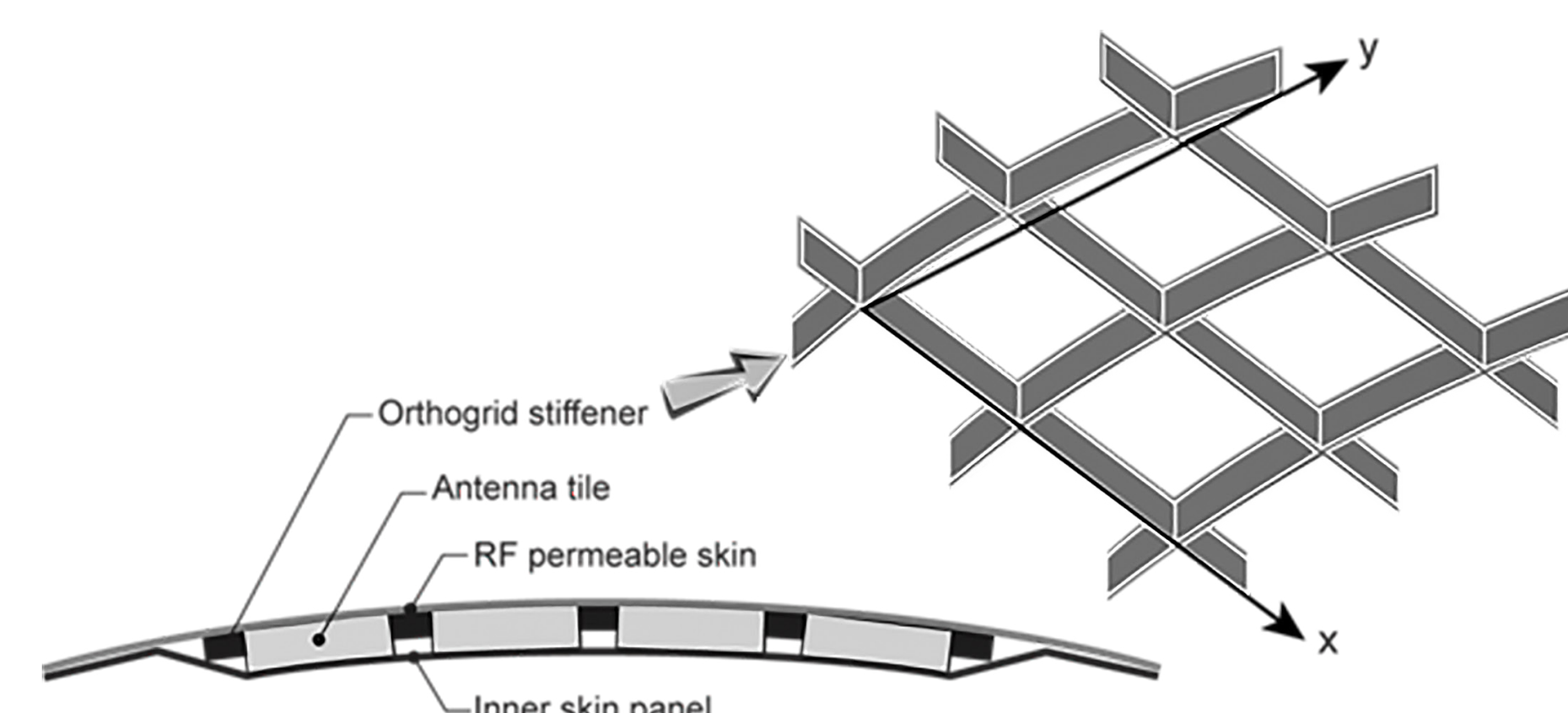
## ACASIAS CONCEPT FOR airborne satellite communication



Past



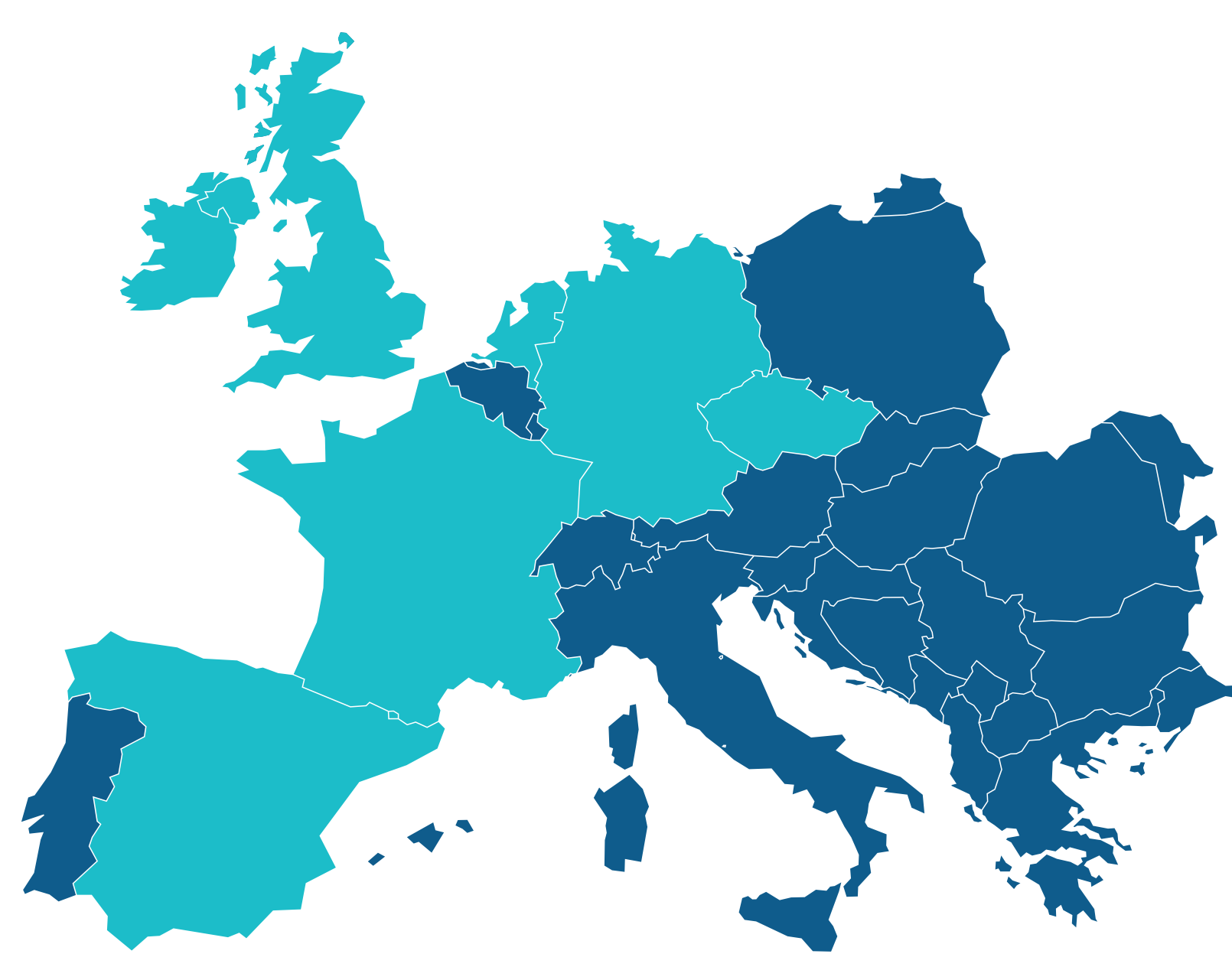
Present



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#### Partners

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<p>FRANCE</p> <p>Lup</p>	<p>SPAIN</p> <p>CIMNE</p>



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