

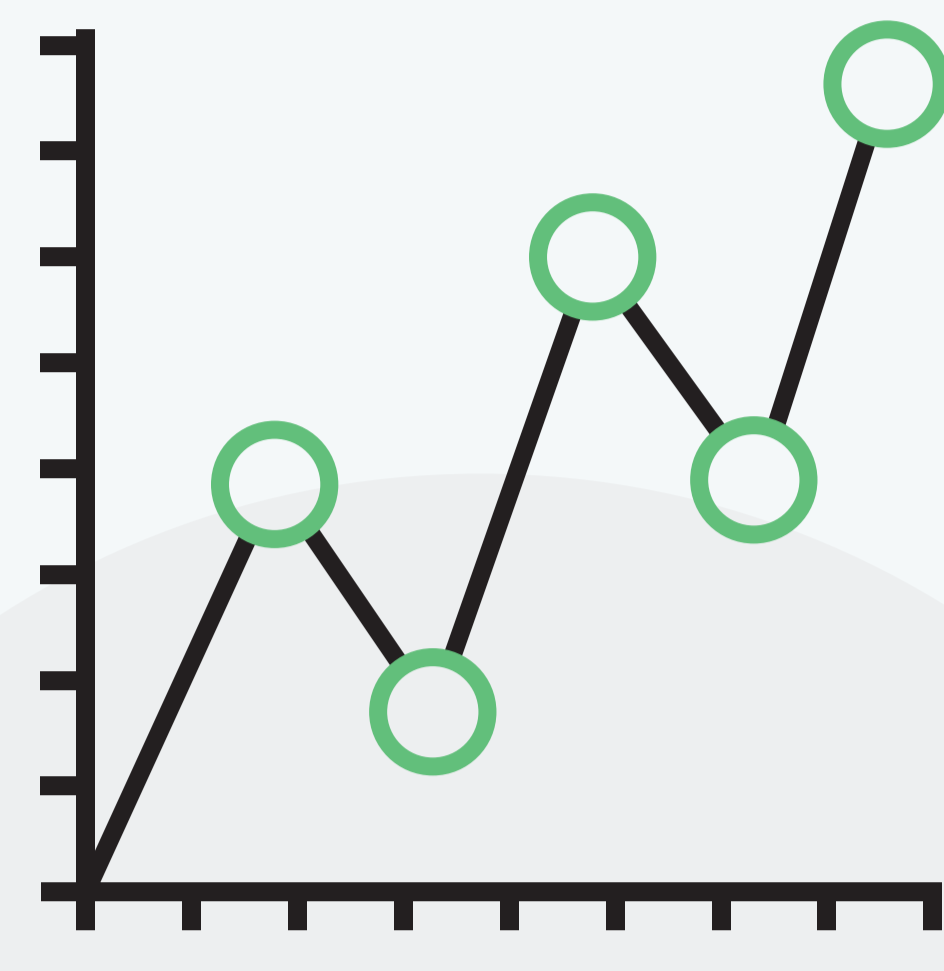
SCARBO

SPACE CARBON OBSERVATORY



CONCEPT

Small Sats constellation
 Novel miniaturised sensors
 Reference instruments
 Aerosol sensors



SCOPE

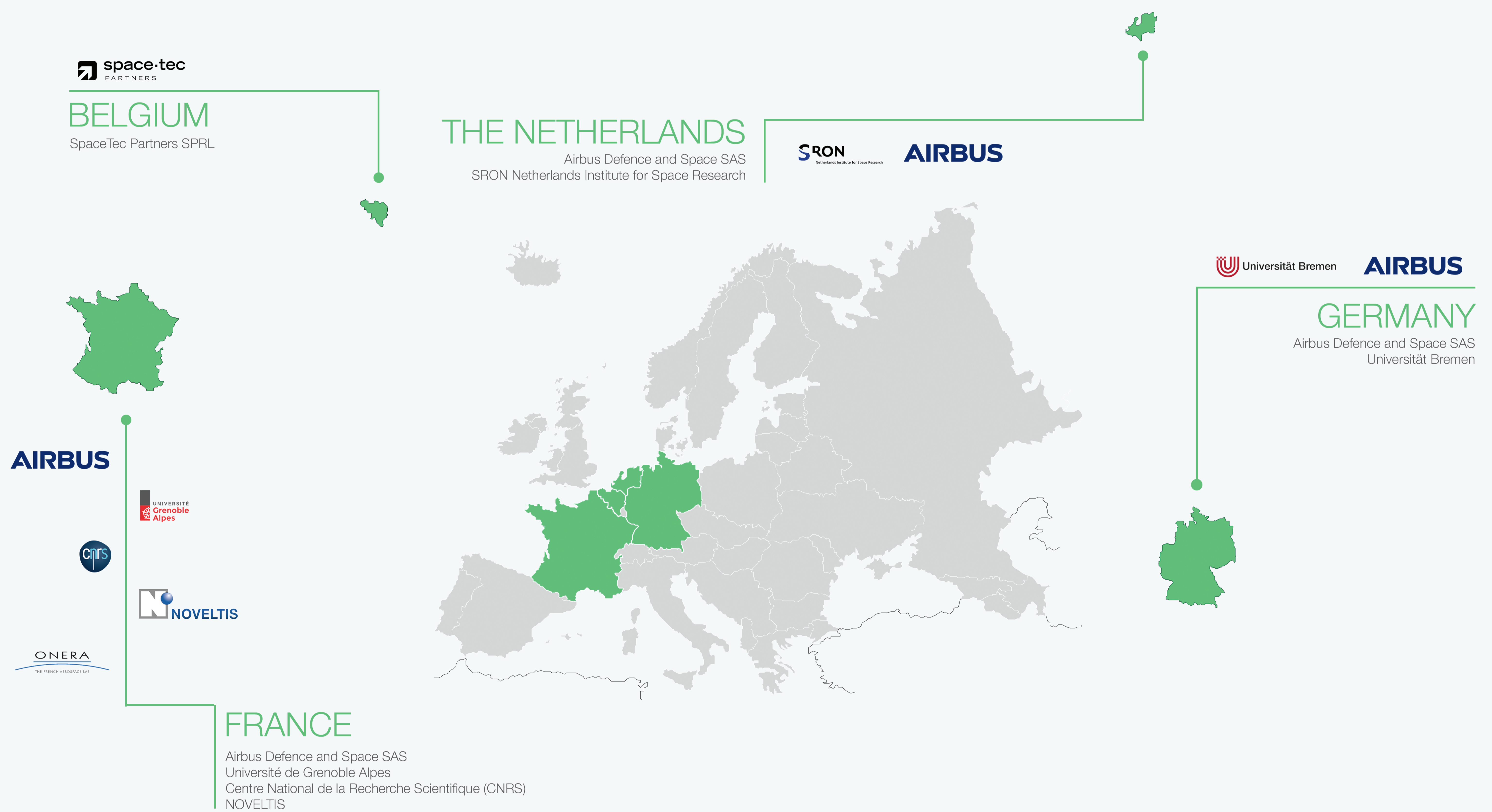
Technical feasibility study
 Assessment of mission performances
 Proof of concept demonstration
 Exploitation plan and use cases



CHALLENGES

High accuracy measurements
 High observation frequency
 High spatial resolution
 Mission cost optimisation

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- Reference
- NanoCarb
- Aerosol

ScarboSat 1

Class 200 kg



Reference + Aerosol + NanoCarb

ScarboSat 2

Class 50 kg



Aerosol + NanoCarb



Polar orbits around noon
 Large swath
 Intraday revisits
 ≠ Local times

AIRBUS