

Dirisolar

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Targeted topics

SU-INFRA01-2018-2019-2020: Protection of critical infrastructure, physical and cyber threats

SU-INFRA02-2019: Security for smart and safe cities, including for public spaces

The DS1500

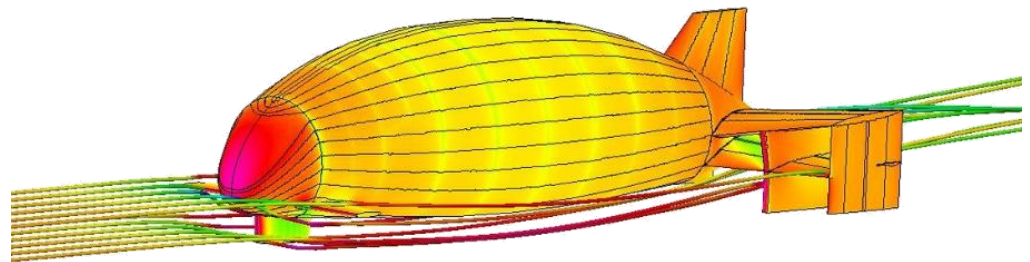
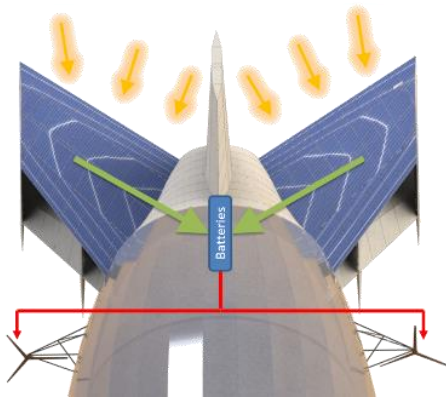
The first "all-weather" solar airship

Dirisolar, SME, is developing the first "all-weather" solar airship with electric propulsion.

The DS1500 has the capacity to match security requirements and symbolizes the energetic transition with:

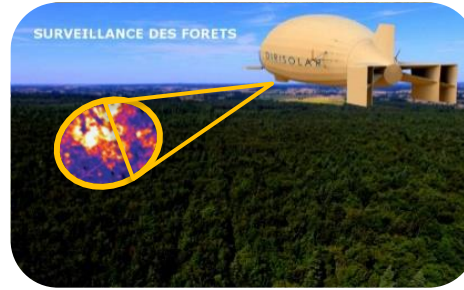
- **No emission** of greenhouse effect gas during flight
- Autonomous pilot, no heavy infrastructure needed
- Flight domain highly increased to 90% (instead of 50% with conventional airship)
- **Great autonomy** with in-flight battery recharge with at least **80m² of solar panels**
- **10 to 450 kg** of human or AI payload up to **5000 meters** altitude

The skills we can bring are: aerodynamic simulation, structure calculation, systems implementation, aerostat dimensioning and flight control, and associated technical skills as mechanical assembly, solar energy and electrical power dimensioning





*Long term aerial data capture
Anti-drone platform
Detection and tracking*



*Fire start detection
Crisis management
People security*



*Critical installations surveillance
Leaks detection*

The **Solar All Weather Electrical DS1500 Airship**, for critical installations surveillance. Its payload of 375kg enables it to carry advanced detection systems for data capture and surveillance and its autonomy in weeks allows it to serve several missions at once

- Dual project able of **S**ecurity, **O**bservation, **S**urveillance for various markets (infrastructure surveillance, fire detection, data capture and real time analysis, 3D mapping, intrusion detection, tracking and response logistics)

Skills we are looking for:

Innovative photovoltaic films	Batteries	Propellers
Navigation systems	Special sensors (payloads)	UAV systems