

GENERAL OFFICE FOR SPACE



Neaples, 30/05/2019

Lt.Col. Francesco SOLDANI

Agenda



- **Introduction**
- **Aerospace Strategic View**
- **Suborbital Flight**
- **Stratospheric Platforms**
- **Air Launch**
- **Space Surveillance and Tracking**
- **Space Weather**

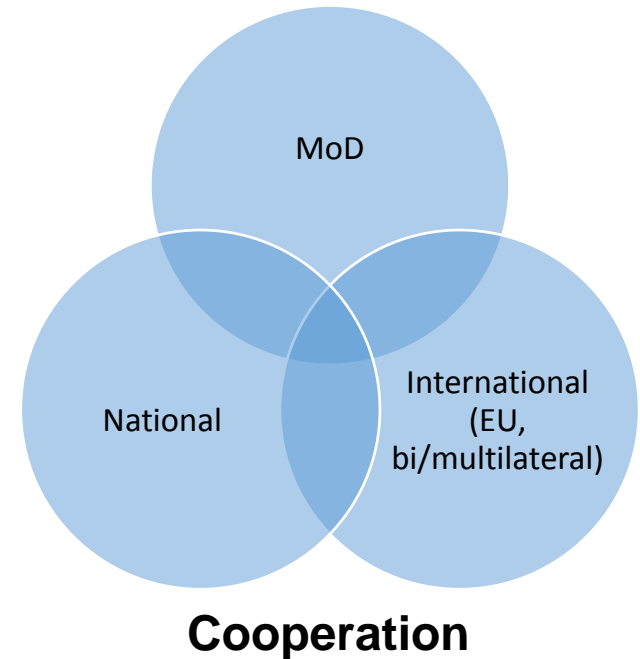
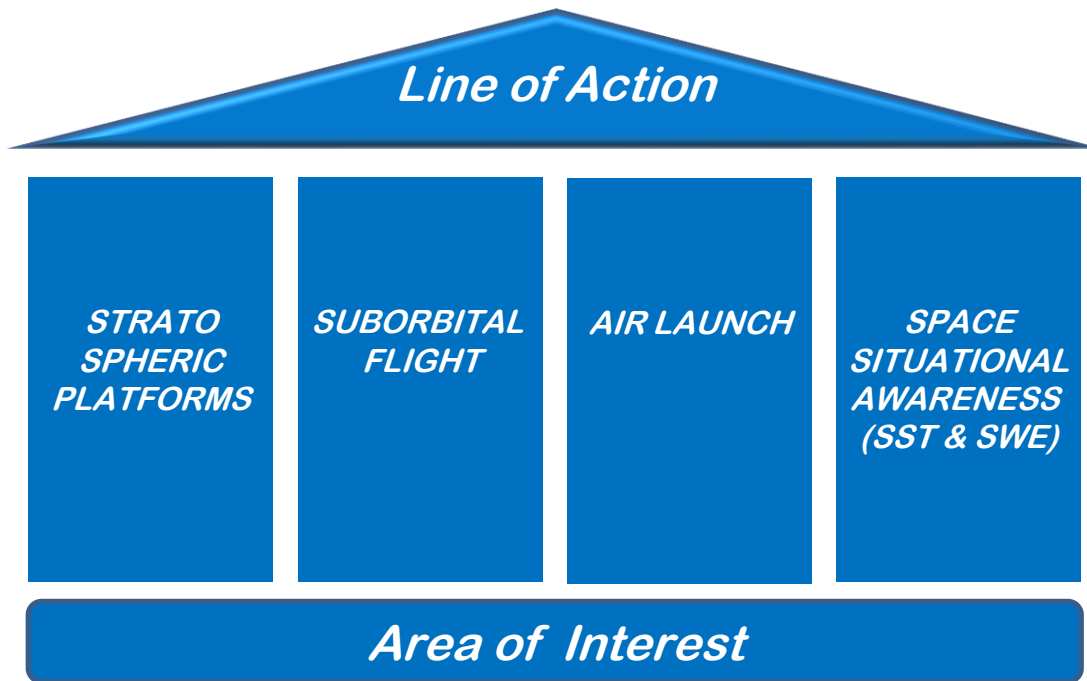
Introduction



Space is a contested and a congested domain
«Access to Space» and «Space services» are critical



Aerospace Strategic View



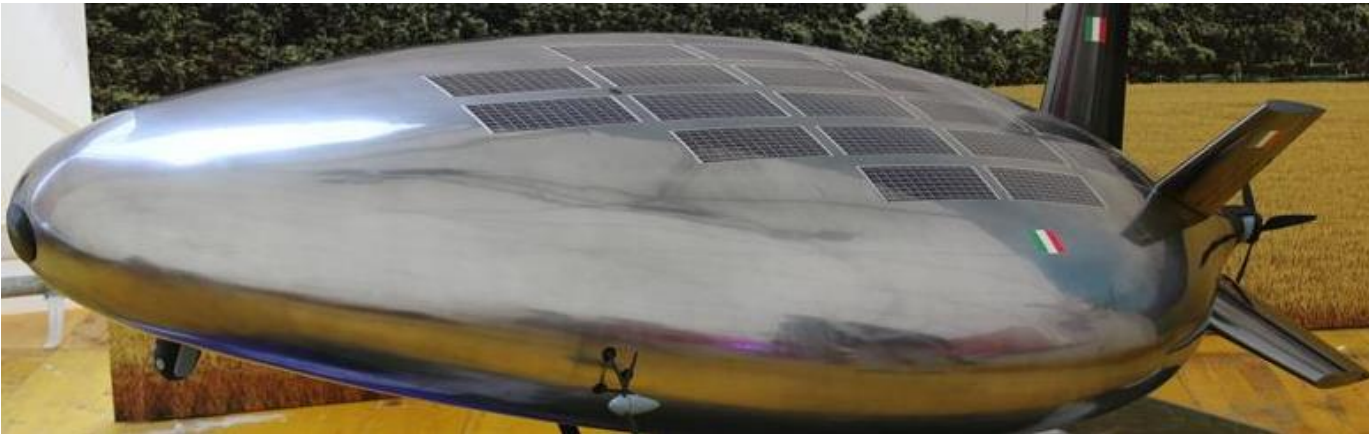
In Jan 2018 the Inter-ministerial Committee has been established to coordinate national space & aerospace policy



Stratospheric Platforms

To expand aerospace operational domain by High-Altitude Long Endurance (HALE) Platforms

- Payload versatility
- Same performances as satellites and UAVs
- Reduced costs compared to space assets.



Suborbital Flight



To expand space and aerospace operational domain by
Suborbital flight

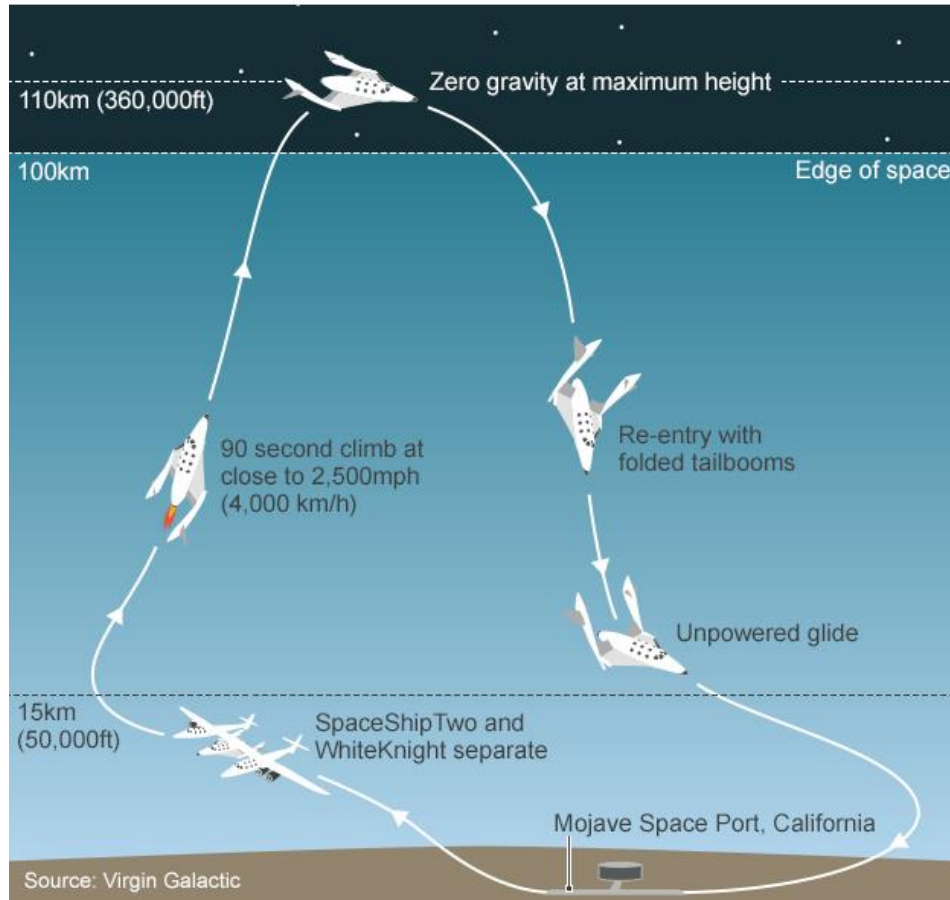


Italian Air Force

Suborbital Flight



SpaceShipTwo flight plan



Suborbital Flight



Italian Air Force

Air Launch



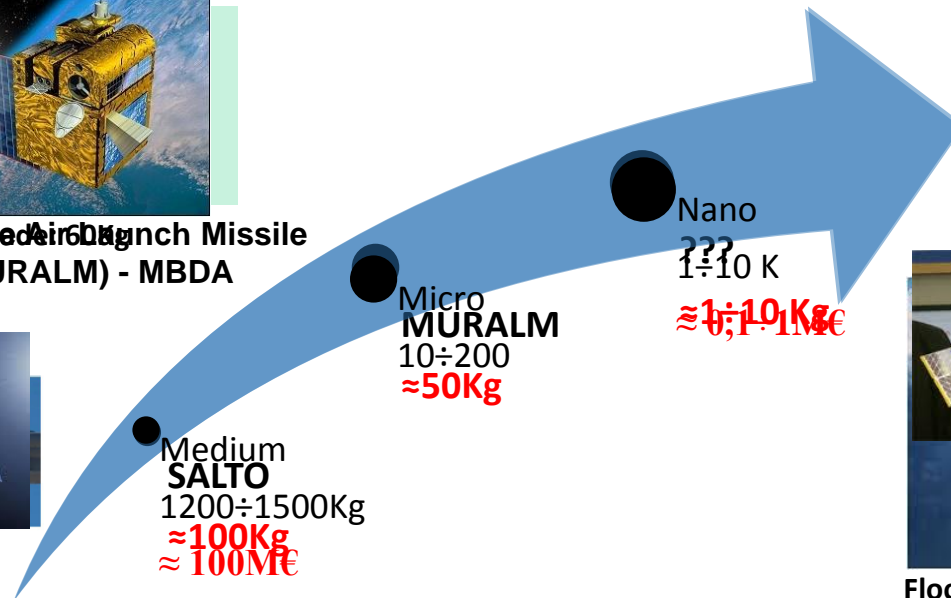
To access space resources by Air Launch as possible solution for small satellites, responding to the needs of efficiency, autonomy and flexibility



Small Satellite Air Launch Missile (MURALM) - MBDA



(SALTO) Avio Cosmo SkyMed: 1700Kg



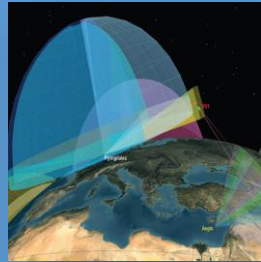
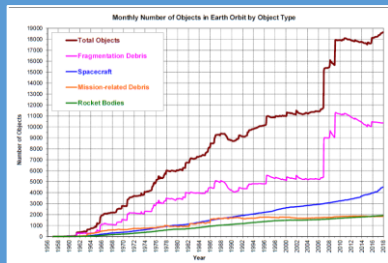
Flock 1 (Planet Labs Inc.): 5 Kg
Italian Air Force

Space Situational Awareness



The proliferation of space debris remains the most serious risk to the sustainability of space activities.

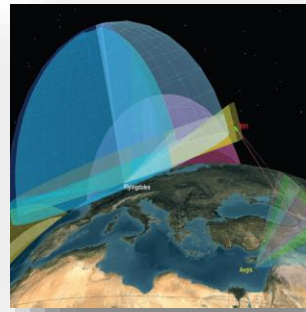
SST



SPACE WEATHER



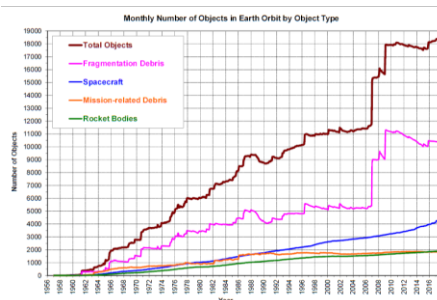
Space Surveillance & Tracking



Global Sentinel 2017



Global Sentinel 2018



Italian Air Force



**Thank you
for your attention**