



RISE ESA's Resilient In-orbit Servicing mission for Europe

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In-Orbit Servicing News





MEV-1 from SpaceLogistics Inc. separated in March from Intelsat 901 in March following 5 years of AOCS Takeover

MEV-1 mission timeline:

- Launched by Northrop Grumman in 2019
- Captured Intelsat-901 in February 2020
- Provided continuous station keeping (AOCS takeover)
 to Intelsat-901 until March 2025
- Recently undocked, **en-route** to next target

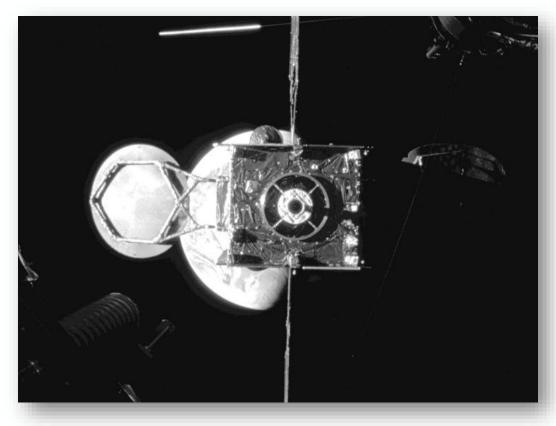


Image taken by MEV-1 during separation from Intelsat 901 in March this year. Credit: Northrop Grumman

RISE Mission Summary



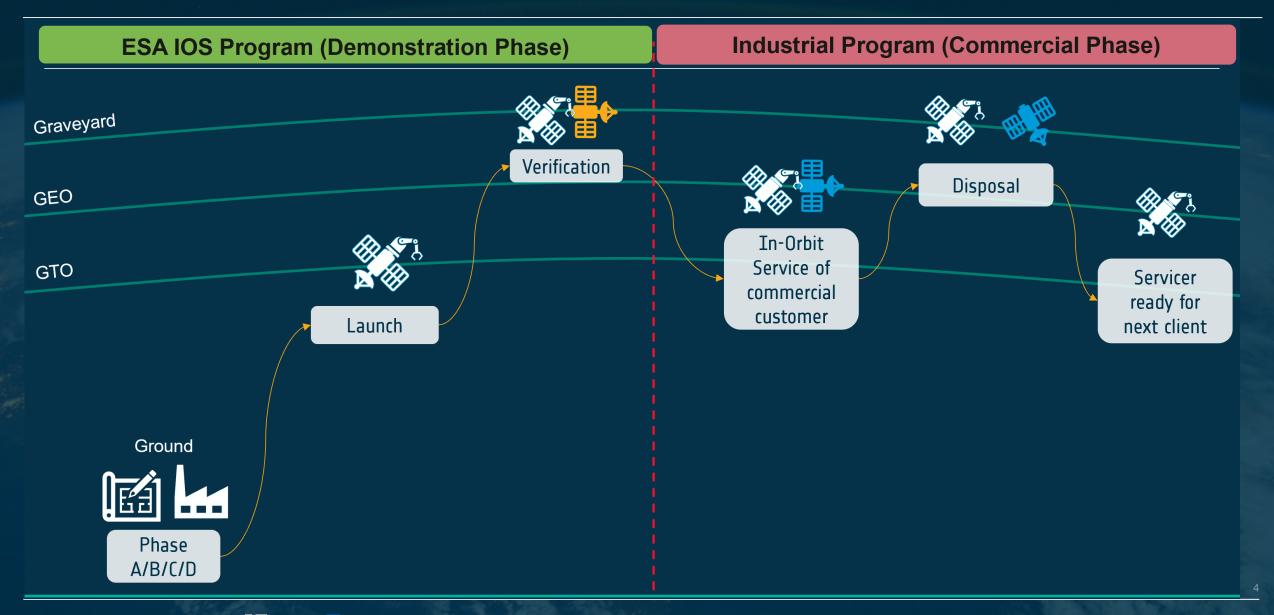
RISE aims to bring together a service provider and a customer for the verification of life extension of a satellite through Attitude and Orbital Control Takeover (AOCS Takeover) in geosynchronous graveyard orbit (GGO).

- → Industry led mission industry defining the mission and system requirements
- → End-to-end contract covering Phase A to E
- → Following the verification in graveyard orbit, ESA role ends, industry to continue with commercial service
- → First European Mission for AOCS Takeover in Europe
- Requires cutting edge technology for rendezvous and capture
- → Depends on customer (e.g. telecom operator) participation in development, and customer satellite in GGO



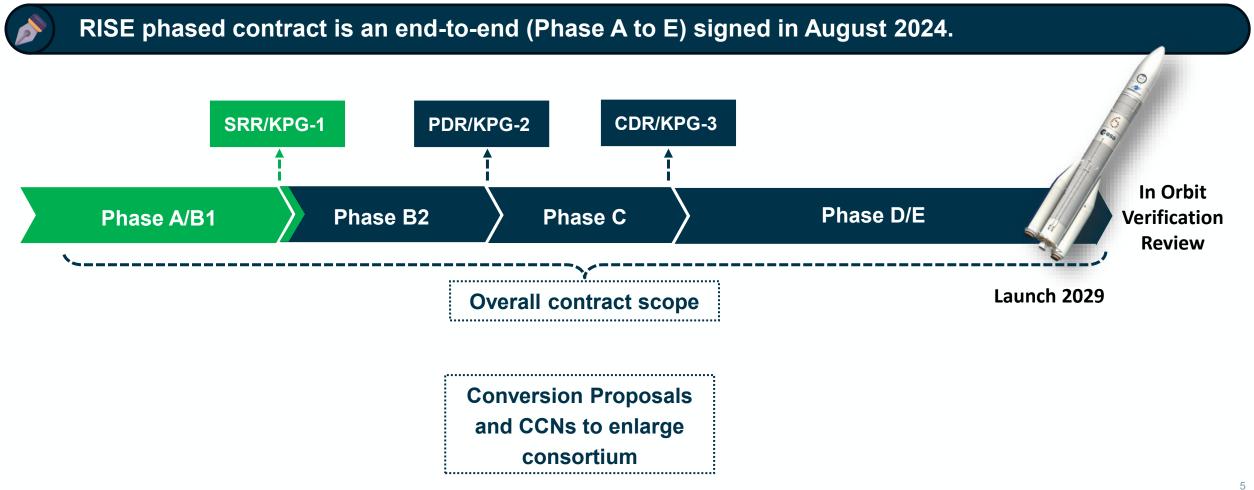
RISE Concept of Operations





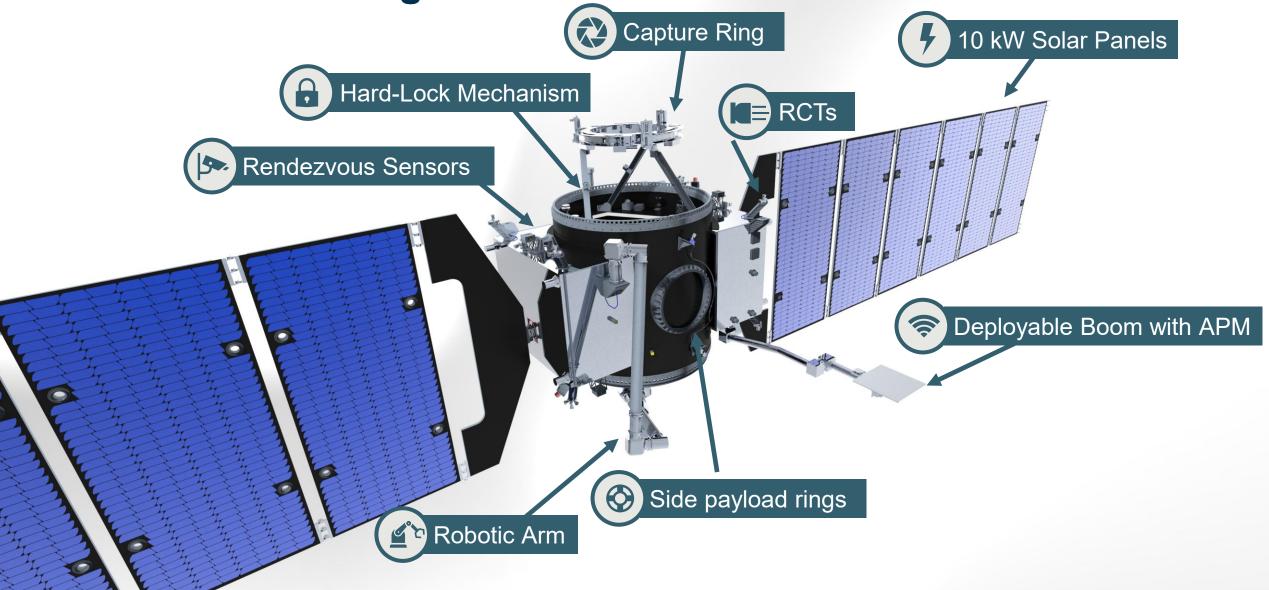
RISE Contractual Setup





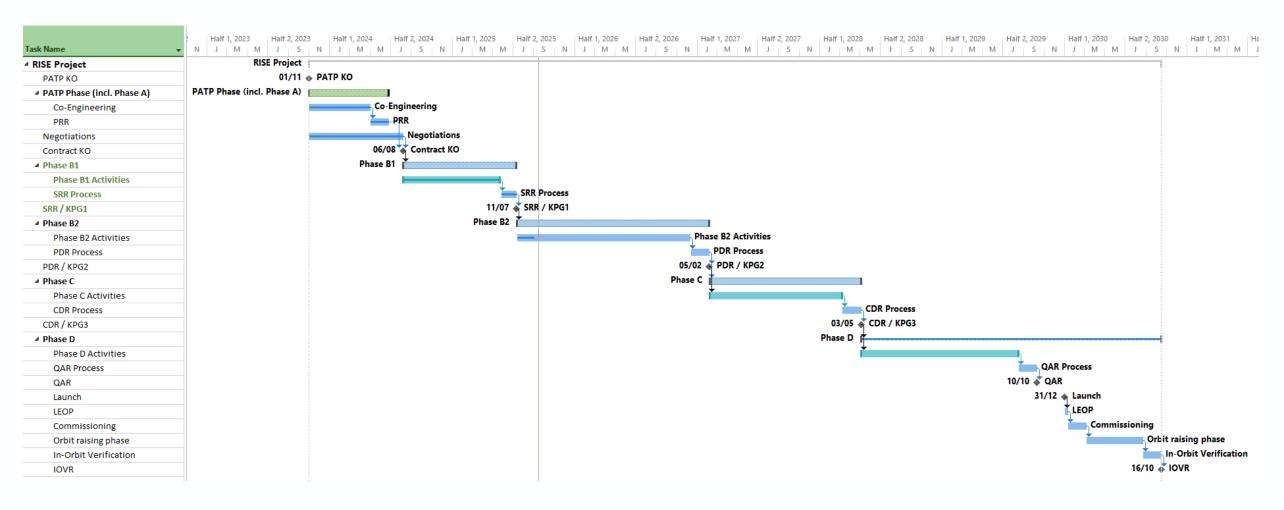
RISE Satellite Configuration





RISE Schedule Summary





RISE Geo-return

RISE		S2P Period 2 (CM-22)
		Amount
		(1) (1)
A.T.	Acceptain	(Meuro)
AT BE	Austria	
	Belgium	
CZ	Czech Republic	
DK	Denmark	
EE	Estonia	
FI	Finland	
FR	France	
DE	Germany	10
GR	Greece	
HU	Hungary	
IE	Ireland	
IT	Italy	60
LU	Luxemburg	
NL	Netherlands	
NO	Norway	
PL	Poland	
PT	Portugal	
RO	Romania	0.8
ES	Spain	3.3
SE	Sweden	
СН	Switzerland	2.5
GB	United Kingdom	2.6
CA	Canada	0.5
LV	Latvia	
LT	Lithuania	
SI	Slovenia	
SK	Slovakia	
		79.6



RISE Needs:

Italy:

- DOrbit (Prime, System Enginereing..)
- Sitael (Electric propulsion)
- Telespazio (Ground segment infrastructure)

Germany

- DLR(ERCOLE Robot Arm Analysis)
- KINETIK (ERCOLE Robot Arm)
- iBOSS (Robotic Interfaces)

United Kingdom

- D-Orbit (UK) (Customer acquisition and market analysis)
- CGI (Security Analysis and Security Risk
- Management)
- LMO (Close Proximity Operations sensor selection and analysis)

Switzerland

- Almatech (Mechanisms)

Spain

- GMV (Relative Proximity Operations verification)
- DHV (Solar Arrays)

A number of roles remain open, this is reflected in the S2P Period 3 Subscription uncertainty!

Thank you!



