



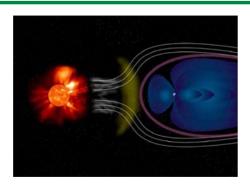




Space Safety







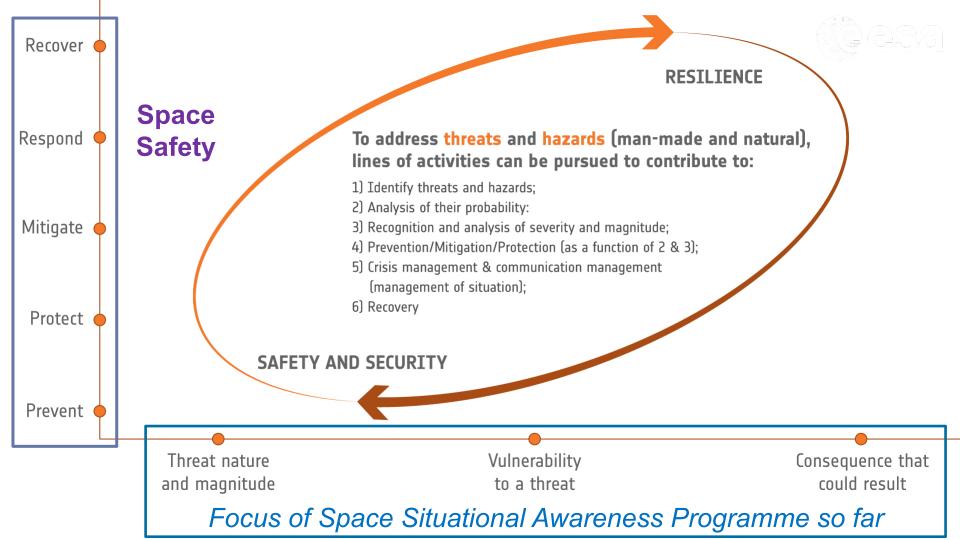


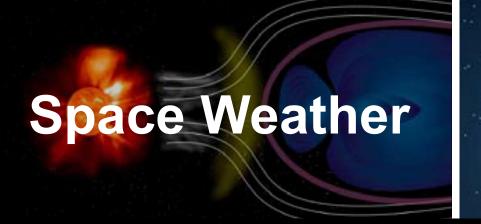
Space Safety

Ambition:

An **single programme** covering:

- Space Weather
- Planetary Defence
- Debris and Cleanspace
- → Gap analysis and setting of priorities to identify new activities (proactive architect role!)
- → new & strengthened partnerships







Cornerstones of Space Safety

Debris and Cleanspace - Remediation

Debris and Cleanspace - Prevention

Space Safety



CORNERSTONE TOPICS

- 1. SWE L5 mission (L1, US)
- 2. Asteroid deflection demo. for Planetary Defence
- **3. Debris removal** as an anchor institutional mission; and
- 4. Spacecraft Collision
 Avoidance addressing Debris
 and Cleanspace

TECHNOLOGY DEMONSTRATORS

- 1. Close proximity GNC, etc.
- 2. SCAS demonstration on e.g. Proba 2

OPPORTUNITIES

- 1. Space servicing (& Co.) as a commercial follow-up of debris removal
- 2. Space Science....!



























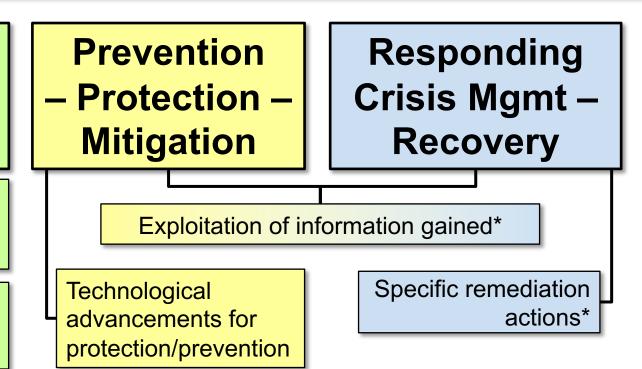
Gap analysis and setting priorities



Threat Detection and Analysis

Data – sharing & assets (existing and new)

Data → info – capabilities for E2E modelling,...



* high commercial potential



Planetary Defence Beyond 2019



NEO Detection and Threat Analysis

- NEO observations
- NEO sensors development
- Networking of assets

NEO impact mitigation and protection

- Deflection techniques
- Asteroid deflection mission
 - → Cornerstone
- NEO applications and services

























Planetary Defence Roadmap

NEOCC operations and coordination with national authorities



