

Space Mission Planning Advisory Group Status Report

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SMPAG formation and status

The SMPAG was officially established in February 2014

SMPAG Terms of References were finalized in June 2014

SMPAG has established a work plan in November 2015 which is a living document

2 SMPAG meetings took place in 2016:

- **Feb 2016 at STSC in Vienna**
- **Oct 2016 in Pasadena, USA, (just before DPS)**

SMPAG Membership

(Status 1 February 2017)

Official members with nominated delegations:

AEM (Mexico)	JAXA (Japan)
ASI (Italy)	KASI (South Korea)
Belspo (Belgium)	NASA (USA)
CNES (France)	ROSA (Romania)
DLR (Germany)	ROSCOSMOS (Russian Federation)
ESA	SSAU (Ukraine)
IAWN (ex officio)	SUPARCO (Pakistan)
ISA (Israel)	UKSA (UK)

Permanent Observers:

ASE, IAA, IAU, UNOOSA

Intention of Membership indicated:

CSA (Canada), China , Czech Republic, Austria

SMPAG work plan

A list of 11 activities has been identified by SMPAG:

- **5.1: Criteria and thresholds for impact threat response actions. (Lead: NASA)**
- **5.2: Mitigation Mission Types and technologies to be considered (Lead: UKSA)**
- **5.3: Mapping of threat scenarios to mission types (Lead: ESA)**
- **5.4: Reference missions for different NEO threat scenarios (Lead: ASI)**
- **5.5: A plan for SMPAG action in case of a credible threat (Lead: NASA/IAA)**

SMPAG work plan, cont.

- **5.6: Communication guidelines in case of a credible threat (Lead: NASA)**
- **5.7: Roadmap for future work on planetary defense (Lead: DLR)**
- **5.8: Consequences, including failure, of NEO mitigation space missions (Lead: TBD)**
- **5.9: Criteria for deflection targeting (Lead: ROSA)**
- **5.10: Study the nuclear device option (Lead TBD)**
- **5.11: Toolbox for a characterization payload (Lead: CNES)**

SMPAG work plan status

- **It was agreed during the meeting in Oct 2016 that:**
 - **semi-annual reports on ongoing activities are no longer required**
 - **If no status report on ongoing activities is provided for 2 consecutive SMPAG meetings a different task leader could be appointed.**
- **Results on ongoing work plan activities have been delivered by CNES (existing relevant report), DLR (first version of living road map) and NASA (proposed threshold criteria).**
- **An ad-hoc working group on legal issues was officially established during the 7th SMPAG meeting in Oct 2016. A meeting will take place on 2 February.**