

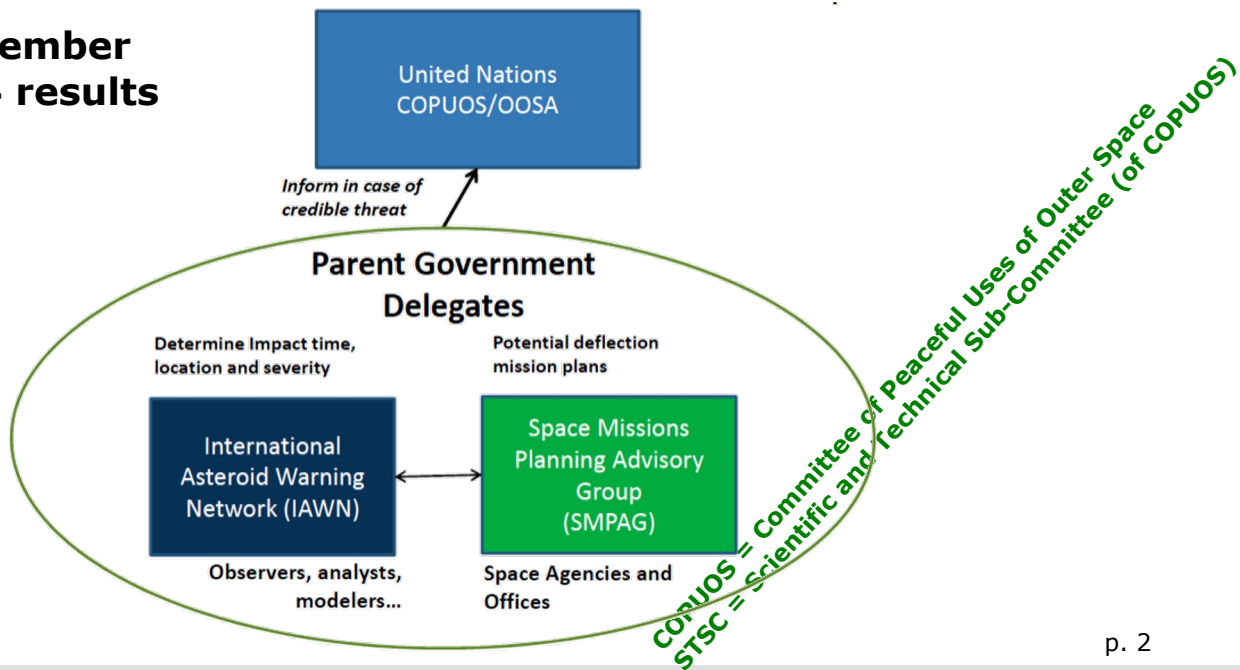
SMPAG status

D. Koschny, SMPAG chair

Oct 2023

Reminder – context

- ❑ 'Action Team 14' (AT14) created after the Unispace 99 conference – task: Define how we should deal with the asteroid impact threat
- ❑ 2008 – 2013: Definition phase – meetings in the margin of UN COPUOS STSC and UN COPUOS meetings
- ❑ 'NEO Working Group' of Member States discussed the AT14 results and produced a final recommendation
- ❑ The conclusion:
 - presented Feb 2014
 - adopted Oct 2014 by the General Assy



Current status - 1



- All documents and minutes are available via the web page:

<https://www.smpag.net>

The screenshot shows the SMPAG website interface. At the top, there are navigation tabs for 'SCIENCE MISSIONS', 'EUROPEAN SPACE AGENCY', and 'SCIENCE & TECHNOLOGY'. Below this is a header with the 'smpag' logo and the ESA logo. The main content area is titled 'SMPAG » Documents and presentations' and features a sidebar with a list of meetings from #01 to #21. The main content area is titled 'DOCUMENTS AND PRESENTATIONS' and includes sections for 'GENERAL DOCUMENTS', 'Plans', 'Reports', and 'Other'. The 'Reports' section lists several reports with their titles and dates. The 'Other' section includes a link to terms of reference for an ad-hoc legal working group. Below this, there are two sections for presentations from specific meetings, each listing the status of SMPAG and IAWN. The bottom of the page features a row of national flags representing the participating countries.

- ❑ **18 member delegations** (see https://www.smpag.net/smpag_members)
 - Welcome to N. Schmidt as official delegate from CZ
- ❑ **7 observers**
 - European Astronomical Society (eas-astro.org) had requested ad-hoc observer status for this meeting – represented by Rudi Schmidt
- ❑ **1 ex-officio member (IAWN)**
- ❑ **A few 'in the pipeline' – see separate agenda item today**
- ❑ **SMPAG hypothetical asteroid impact exercise still ongoing**
 - Prepared and coordinated by the Italian Space Agency ASI
 - Three 'sprints' – first one done, see report this meeting
- ❑ **Planetary Defense Conference 2023 – how would SMPAG react to the presented simulated asteroid threat scenario? – was well received.**

Home
Meeting #01 (Feb 2014)
Meeting #02 (Jun 2014)
Meeting #03 (Feb 2015 - Steering Group only)
Meeting #04 (Apr 2015)
Meeting #05 (Nov 2015 - Steering Group only)
Meeting #06 (Feb 2016)
Meeting #07 (Oct 2016)
Meeting #08 (Feb 2017)
Meeting #09 (Oct 2017)
Meeting #10 (Jan 2018)
Meeting #11 (Oct 2018)
Meeting #12 (Feb 2019)
Meeting #13 (Sep 2019)
Meeting #14 (Feb 2020)
Meeting #15 (Sep 2020)

DOCUMENTS AND PRESENTATIONS

This page links to relevant documents related to the work of the SMPAG.

GENERAL DOCUMENTS

Plans

[SMPAG-PL-001 - Workplan V2.0, SMPAG-PL-001/2.0](#)

Reports

[SMPAG-RP-001 - Roadmap of relevant research for planetary defense, SMPAG-RP-001/3.0, 15 Apr 2020](#)

[SMPAG-RP-002 - Draft report on work package 5.5, SMPAG-RP-002/D.0, 2018 Oct 10](#)

[SMPAG-RP-003 - Status report on work package 5.1 from workplan "Recommended criteria & thresholds for action for a potential NEO impact threat", SMPAG-RP-003/1.0, 2018 Oct 18](#)

[SMPAG-RP-004 - Report by the SMPAG Ad-Hoc Working Group on Legal Issues to SMPAG, SMPAG-RP-004/1.0, 2020 Apr 08](#)

Other

[Terms of reference for the ad-hoc legal working group, as agreed by the SMPAG #09 meeting on 11 Oct 2017.](#)

PRESENTATIONS FROM THE SMPAG MEETING #18 (09/10 FEB 2022)

[Status of SMPAG \(ESA, Koschny\)](#)

[Status of IAWN \(NASA, Fast\)](#)

[Update on Japanese missions \(JAXA, Yoshikawa\)](#)

[Update on US missions \(NASA, Johnson\)](#)

[Update on Hera mission \(ESA\)](#)

[NEA-related activities in Germany \(DLR, Harris\) - see SMPAG #17 presentation slides.](#)

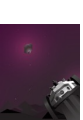
[NEA-related activities in Italy \(ASI, Gabrielli\)](#)

[Intelligent decision support system \(UK, Vasile\)](#)

<https://www.smpag.net>



Appendix



- **Workplan items (discussion to combine some is pending)**
 - **Criteria and thresholds for impact threat response actions (done)**
 - **Mitigation mission types and technologies to be considered (work ongoing)**
 - **Mapping of threat scenarios to mission types (work ongoing)**
 - **Reference missions for different NEO threat scenarios (work ongoing)**
 - **A plan for SMPAG action in case of a credible threat (work ongoing)**
 - **Communication guidelines in case of a credible threat**
 - **Produce a 'road map' for future work on planetary defence (working doc available)**
 - **Consequences, including failure, of NEO mitigation space missions (work ongoing)**
 - **Criteria for deflection targeting (work ongoing)**
 - **Study of the nuclear device option**
 - **Toolbox for a characterisation payload (working doc available)**