



Agenzia Spaziale Italiana

Roma 16/09/2020

To:  
International Asteroid Warning Network  
Dr. Timothy B. Sphar  
IAWN Manager

**Subject: ASI participation to IAWN**

Dear Dr. Sphar

on behalf of the Italian Space Agency (ASI) I am pleased to inform you of our intention to join the International Asteroid Warning Network. Our Planetary Defense activities are consistent with the terms laid out in the IAWN Statement of Intent and their potential contribution is summarized in the table below.

Facility	Location	Contribution
Delegation to the ESA SSA and Space Safety Programmes	ASI HQ (Roma, Italy)	Major support to the realization of the ESA "Fly-Eye" telescope devoted to NEO discovery and to the ESA NEO Coordination Center operations (ESRIN, Frascati, Italy)
Delegation to the EU SSA Programme	ASI HQ (Roma, Italy)	Promoting NEO activities in EU
Fly-Eye telescope hosting sites	ASI CGS (Matera, Italy) Mt Mufata (Sicilia, Italy)	Agreement ASI-ESA for the deployment of the first ESA Fly-Eye telescope: at the ASI Space Geodesy Center for commissioning and science verification and at its final site in Sicily.
NEO Center	ASI HQ (Roma, Italy)	NEO observation tools and services (e.g. NEODYs hosting site) available through the ASI Space Science Data Center (SSDC). In progress.
NEOROCKS project	ASI HQ (Roma, Italy)	Migration, maintenance and evolution of the EU H2020 NEOROCKS technical portal and products (e.g. NEO Physical Properties Priority List and Database) beyond the duration of the project. In progress.
CGS - Space Geodesy Center	CGS (Matera, Italy)	Availability of scientific and technological facilities such as: - Matera Laser Ranging Observatory (MLRO) - VLBI antenna (20m);





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		<ul style="list-style-type: none"><li>- SPADE telescope (40 cm aperture) for space debris observations;</li><li>- receiving stations and data processing for Earth observation missions (e.g Cosmo-SKYMed)</li></ul> The center is equipped with high-speed connection and with mechanical and optical labs.
SDSA - ASI Sardinia Deep Space Antenna	INAF – Osservatorio di Cagliari (Italy)	Utilization of the 64m Sardinia Radio Telescope for deep space communication and bi-static radar observations of NEOs.
Interface with DPC	ASI HQ (Roma)	Reference to the Italian Department for Civil Protection on space threats (Space Debris, Space Weather and NEO)

A signed version of the Statement of Intent is attached.

Please be informed that Mr. Ettore Perozzi and Mr. Marco Castronuovo will be representing ASI at IAWN.

Kind regards

Dr. Giuseppe Bianco

Director  
ASI Space Geodesy Center