

Earth Observation for Human Health: The Multi-Angle Imager for Aerosols (MAIA) Mission.

An opportunity to enhance Space cooperation between US and
Italy

Rome, Italy
March 1st and March 4th, 2022

The Italian Space Agency (ASI), the National Aeronautics and Space Administration (NASA), the Jet Propulsion Laboratory (JPL), the "Istituto Superiore per la Protezione e Ricerca Ambientale" (ISPRA), the National System of the Environmental Protection (SNPA) and the "Istituto Nazionale di Geofisica e Vulcanologia" (INGV) invite the Italian and American Earth Observation communities (Agencies, Science & Application, and Industry sectors) to an exciting workshop focused on the benefits and opportunities of direct Italian involvement in NASA's MAIA mission.

1. Workshop Scope

The Multi-Angle Imager for Aerosols (MAIA) is a NASA mission currently in development, in partnership with epidemiologists and health organizations, designed to produce data used in health studies to examine the health effects of various types of air pollution.

NASA and ASI are discussing a possible Italian involvement in implementing the MAIA mission, which could lead to the definition of the mission as cooperation between the US and Italy.

MAIA's primary purpose is to study how different particulate matter in air pollution affects human health, i.e., to analyze the relative amounts of various components that make up the mixtures of airborne particles that we breathe. ASI has a strong interest in collaborating with international space agencies in innovative missions that could enhance the national knowledge of technology and science. The Workshop's scope is to stimulate, collect and discuss the interest and involvement of scientific, industrial, and user communities in this very attractive and challenging opportunity.

Its objectives are therefore to:

- present the characteristics of the MAIA mission, highlighting the opportunities for Italian communities, in case of ASI-NASA cooperation in the mission;
- discuss the potential for cooperation on scientific and health monitoring application of MAIA data, focusing on Italian areas of interest, starting from the results obtained to date in the MAIA simulated data.

The event strongly supports networking opportunities among the various participants and stakeholders, laying the foundations for new research and collaborations in the MAIA mission application fields.

2. Workshop Program

The presentations will be by invitation only. The Workshop will run remotely over two days (March 1st and March 4th, three hours each day, starting at 4:00 PM Italian time zone – 7:00 AM PST / 10:00 AM EST) and feature a series of talks with a concluding "Questions and Answers" session. The preliminary program will be distributed soon: stay tuned!

3. Conference registration

The registration is possible by submitting the online form at the following link <https://forms.office.com/r/v1pMwJN2HX> by February 27th, 2022. For any information, feel free to contact us at EOWorkshop@asi.it

4. How to participate

Participation is free upon registration. A dedicated link will be sent to registered participants.

5. Target audience

The Workshop is oriented to the scientific, application, users, industrial community, and, in general, everyone interested in Earth Observation.

6. Language

English

7. Organizing committee

Stacey Boland (JPL), Fabrizia Buongiorno (INGV), David Diner (JPL), Francesco Longo (ASI), Hal Maring (NASA), Andrea Taramelli (ISPRA), Frank Webb (JPL), Simona Zoffoli (ASI), Cinzia Zuffada (JPL).