



MMA-CADO workshop
August 30, 2026



The ACME project

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1: INAF - Osservatorio Astronomico di Brera

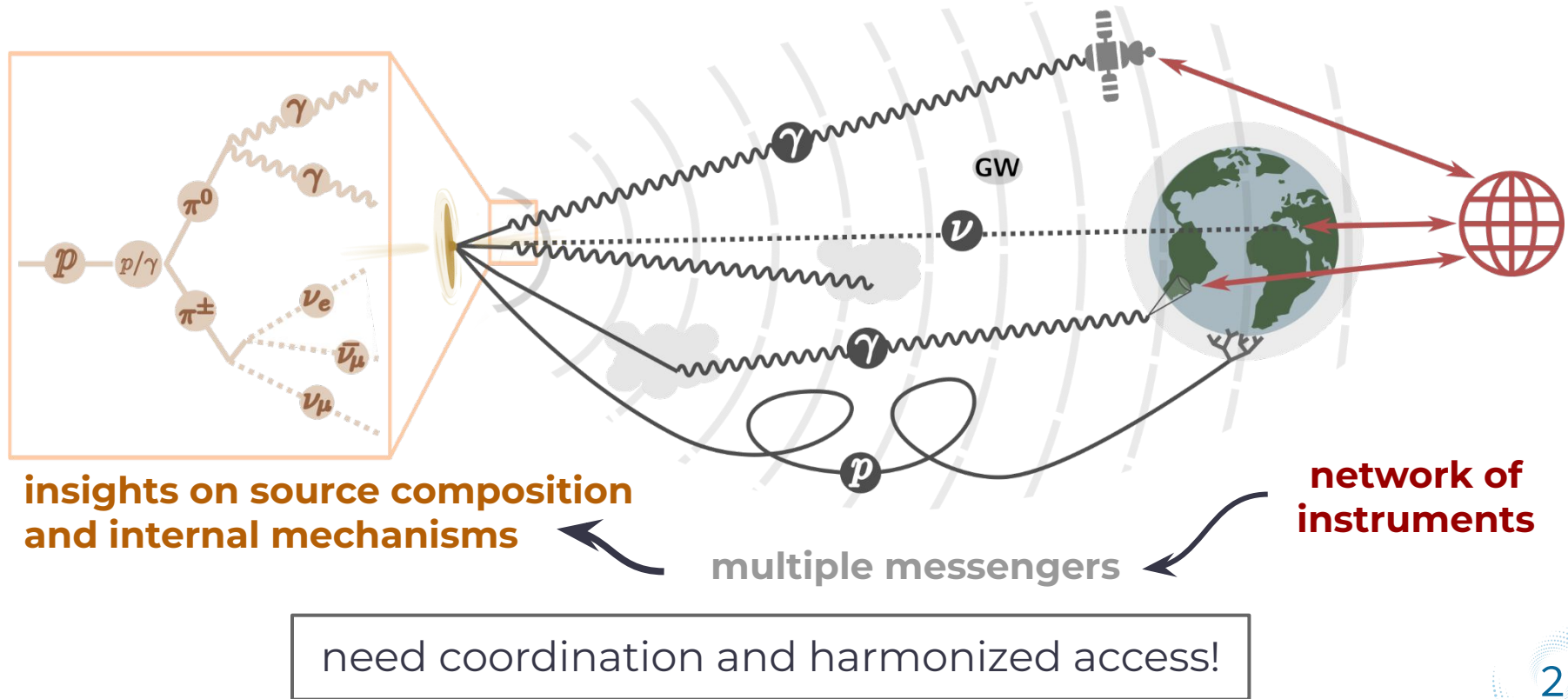
2: Astroparticule et Cosmologie, Université Paris Cité, CNRS



**Funded by
the European Union**

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Multi-messenger Astronomy



- ❖ 42 partners
- ❖ 15 countries
- ❖ > 30 research infrastructures
- ❖ Covering:

*radio, optical, near infrared,
X-rays, gamma-rays, gravitational
waves, neutrinos, cosmic rays*

Project duration:

Sept. 2024 – Aug. 2028

Total cost:

14.5 M€ (100% EU)



Project structure

Objective: improve access to research infrastructures for multi-messenger science.



1. **Coordinate** the activities
2. Harmonized **transnational/virtual access** to RIs
3. Develop **centres of expertise**
4. Improve **science data products** management
5. Manage **real-time alerts and observations**
6. Provide **training** for new generation
7. Open data sets to **other disciplines**, increase **citizen engagement**

→ **7 corresponding Work Packages (WP)**

WP2 – Access to data



CFHT



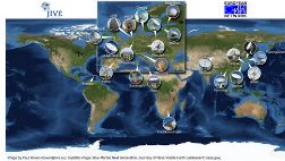
CTAO



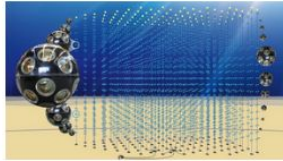
e-MERLIN



Effelsberg



EVN



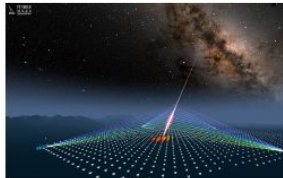
KM3NeT



LOFAR



MAGIC



Pierre Auger
Observatory

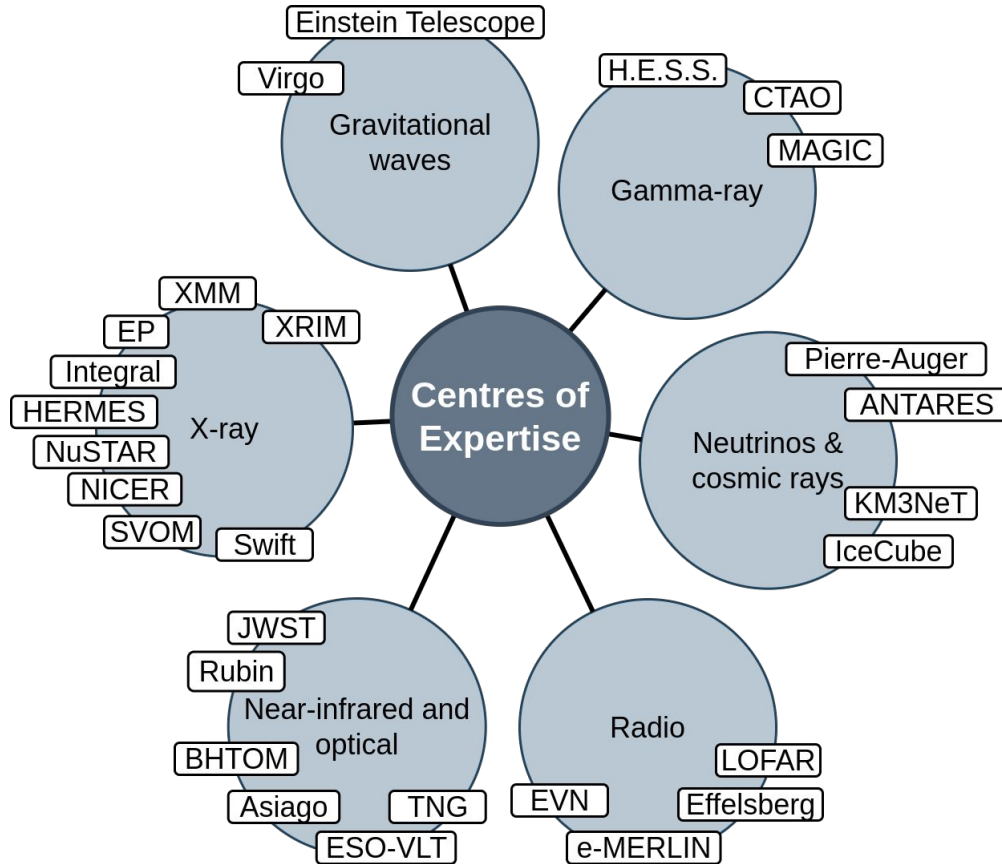
WP leaders: Robert Beswick,
Damien Dornic, Izabela Rottmann

- ❖ Provide **Transnational access** (TNA) to data from existing infrastructures.
- ❖ Implement **procedures** for new infrastructures.

Regular calls to get access to astronomical data

See [list of past calls.](#)

WP3 – Access to expertise

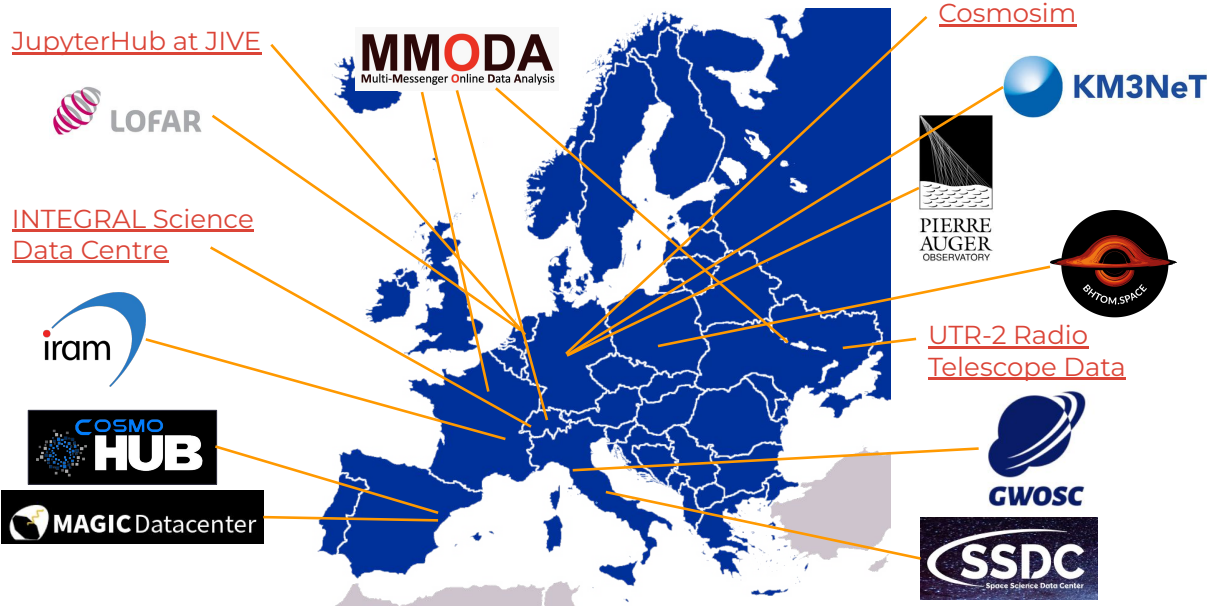


WP leaders: Marica Branchesi,
Zsolt Paragi

- ❖ Visit to institutes
 - 1-2 week(s) stay, fully funded
 - Two calls per year
 - In the first three calls:
 - 274 applications
 - 146 selected projects
 - Next call in **Fall 2026**
- ❖ Virtual access to expertise
 - [Online platform](#) to get support
 - [Remote hands-on sessions](#)
 - Almost 40 tutorials given

WP4 – Access to software & archive

WP leaders: Andrii Neronov, Lukasz Wyrzykowski

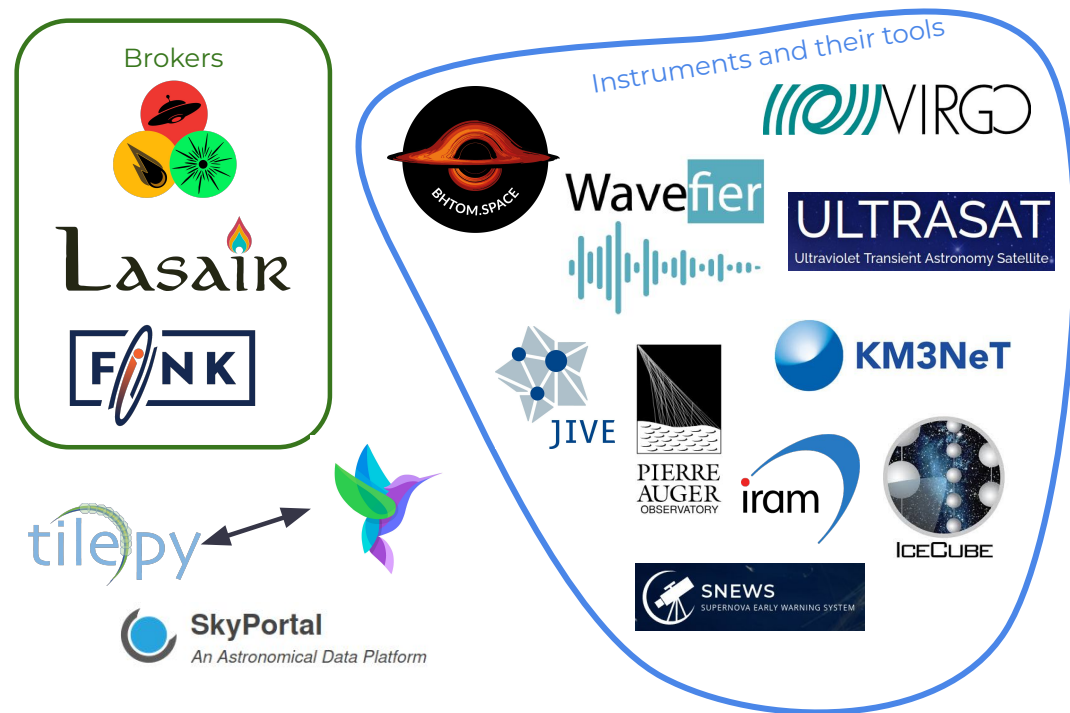


- ❖ Provide Virtual Access to online services.
- ❖ Harmonize standards for data access and analysis tools.
- ❖ Services for on-the-fly analysis of archival multi-messenger data.

List of tools, software,
and archives

WP5 – Access to real-time platforms & brokers

WP leaders: Fabian Schüssler, Marek Kowalski



- ❖ Create a **real-time ecosystem**.
- ❖ Provide **tools to manage/analyse alert streams**.
- ❖ **Organize follow-up observations** based on detections made in near real time.

List of platforms
and tools

WP6 – Training for scientists and engineers

WP leaders: Natalie Webb, Heidi Korhonen

- ❖ Organisation of **conferences, workshops, schools, and hackathons.**
- ❖ Incoming events:
 - European Radio Astronomy School (Italy, Sep 2026)
 - LOFAR Data School (Netherlands, Sep 2026)
 - Hands-On Observational School in Optical Follow-Up of Transients (Italy, Oct 2026)
 - Cherenkov Astronomy Data School (France, Nov 2026) **Registrations still opened**
 - The Transient Universe in the Rubin Era (France, Nov 2026) **Registrations still opened**
 - Inter-Disciplinary Underground Science/Tech (France, Nov 2026) **Registrations still opened**
 - Neutrino Astronomy Bootcamp (France, Dec 2026) **Registrations closing soon!**
- ❖ **Collection of materials** from events and tutorials (videos, slides, notebooks...).

WP7 – Environment and society

WP leaders: Gwenhaël De Wasseige, Stephen Serjeant

- ❖ Make **auxiliary environmental data available** through dedicated services.
 - Plan to create a database containing all environmental data from participating experiments (atmosphere, sea current, temperature...)
- ❖ Involvement of **citizen scientists** and **amateur astronomers**.
- ❖ Support the **inclusion of under-represented/disadvantaged communities**.

Summary and outlooks

- ❖ Numerous actions to improve access to data/expertise/software
 - TNA calls for **access to data** (CFHT, CTAO, e-MERLIN, Effelsberg, EVN, KM3NeT, LOFAR, MAGIC, Pierre Auger).
 - Visits to institutes and online support for **access to expertise**.
 - Improved access and coordination of **archives, softwares**, and **real-time platforms**.
 - **Training, citizen** engagement, and interactions with **other communities**.
- ❖ Census of existing archives, tools, training materials on the [ACME website](https://www.acme-astro.eu).
- ❖ Stay tuned through the [ACME newsletter](#).
- ❖ Work will be pursued beyond ACME's end in 2028.
 - ACME as contributor to ongoing EU calls (INFRADEV 2026, INFRA SERV 2027).



www.acme-astro.eu

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YouTube [@acme-astro](https://www.youtube.com/channel/UC...)