

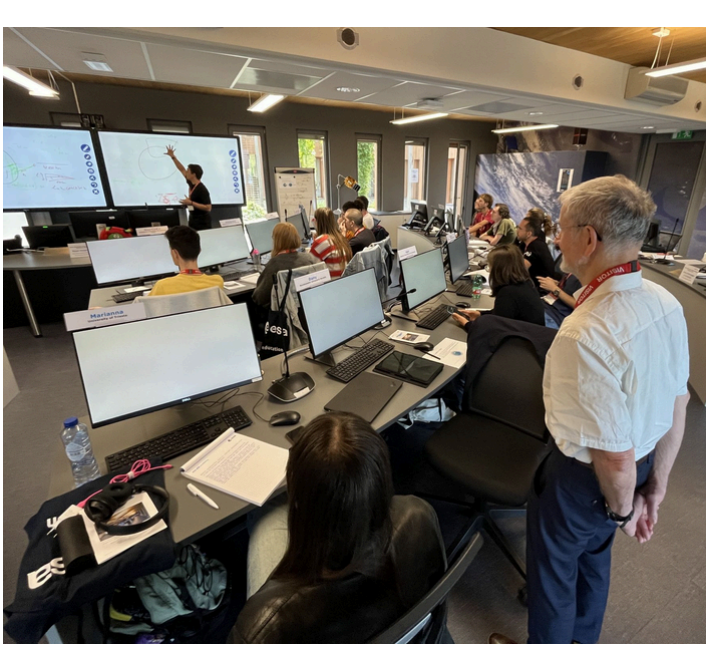


**#5** SEPTEMBER 2024

**Dear colleagues, partners, and satellite innovation enthusiasts,**  
 Welcome to the fifth edition of our HARMONY project newsletter. Since our last update in June 2024, our PhD students have certainly enjoyed some well-earned summer breaks, but that hasn't prevented them from making significant progress. Notable achievements include papers being accepted, participation in conferences, summer school and workshops. The project is now following its orbit, in prime position to fulfill its mission.

**Visit our website to know more about the HARMONY PhDs!**

## Retrospective



Dany Mestas recently participated in the 3rd Earth Observation Remote Sensing Workshop, organized by the European Space Agency (ESA) at ESEC in Belgium (left picture). This experience enabled him to enhance his knowledge of remote sensing applications, including optics, infrared, and radar, while applying new tools through practical examples. Oscar Martinez Rodriguez, Dany Mestas, and Aymeric Cailleux also attended the one-day Joint IEEE Distinguished Lecturer Workshop held in Glasgow (bottom picture). Alex Evrard, Giulio Orlando, and Aymeric Cailleux had their abstracts accepted for the 42nd ESA Antenna Workshop, scheduled to take place at ESTEC in November 2024. Their articles are now in revision phase.

Dany's recent paper on multiplatform distributed geolocation has been accepted for publication in the MILCOM24 conference proceedings, set to take place at the end of October 2024.

In late August, Dorian Chenet took part in the "30th International European Conference on Parallel and Distributed Computing" (EuroPar 2024), where he presented his paper titled "Space Edge Computing for Satellite Systems: Definition and Key Enabling Technologies" at the PhD symposium.

The Harmonists remain mobile within the doctoral network and some of them have recently started a new chapter in their research endeavor. Oscar has begun his six-month secondment at Heriot-Watt University and will later join the TASF team in Toulouse. Giulio is approaching the start of his PhD secondment, scheduled for the coming months. Alex is finishing his time at Thales Alenia Space in Toulouse and will soon head to Rennes, followed by Heriot-Watt University. These new phases mark promising opportunities for future collaborations among our PhD students.



## Voices of HARMONY



Over a year has passed since our HARMONY doctoral candidates, the Harmonists, embarked on their PhD journey. It is now time for an initial assessment of what has been achieved so far, from the perspective of the project supervisory board and, in particular, from my own as the project coordinator.

Pursuing a PhD is always a challenging endeavor, both personally and scientifically. This is especially true for our

candidates, who are part of a project requiring strong intersectoral mobility between academia and industry. Conducting research at the intersection of academic excellence and industrial innovation demands that our Harmonists swiftly comprehend and synthesize complex scientific knowledge from diverse fields of expertise.

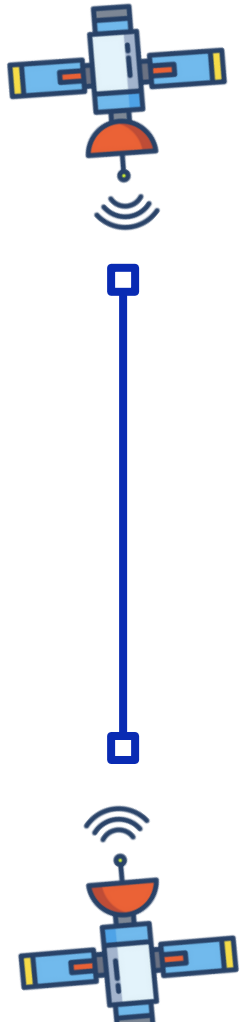
I am pleased to say that our researchers have risen to the challenge! Regular interactions with the PhD candidates continue to reinforce my belief that HARMONY's multidisciplinary environment is a vital asset in preparing these young engineers for their future careers. We are not only nurturing a team of early-stage researchers with deep expertise in their fields; we are fostering multi-skilled talents capable of addressing technical, environmental, and project management challenges from a holistic perspective. Our network-wide events each year provide an excellent opportunity to meet and further train these future innovation leaders.

It is a great honor to coordinate a project alongside such skilled and passionate partners. I look forward to the months and years ahead! A heartfelt thank you to everyone involved in the project: the doctoral candidates, the supervisors, and the administrative team.

**Dr.-Ing. Thomas Delamotte - University of the Bundeswehr Munich**

## Commitment

The HARMONY Project has been and will again get involved in in sharing the passion for science of its members for science with the new generation. At its core, science is a process of curiosity, discovery, and innovation that propels human progress forward. When scientists actively engage with younger generations, they inspire curiosity and instill a sense of wonder that can lead to transformative ideas and future breakthroughs. First, the sharing of scientific passion nurtures critical thinking and problem-solving skills. Young minds, when exposed to the scientific process, learn how to question the world around them, analyze evidence, and think logically. This not only benefits their understanding of science but also equips them with essential tools for navigating challenges in all areas of life.



Second, fostering a passion for science among youth helps bridge the gap between experts and the public. The more accessible and relatable science becomes, the more young people are likely to engage with it, pursuing careers in research or simply supporting informed, science-based policies. This is crucial in an era where misinformation can spread rapidly, and public trust in scientific expertise is essential for addressing global issues like climate change, health crises, and technological development. By sharing their enthusiasm, scientists create role models for the next generation. Seeing passionate, successful scientists can motivate young people to believe in their own potential. They begin to see that science isn't just for a select few but for anyone who is curious and willing to explore the unknown.

**We firmly believe that the diversity of thoughts from young people entering the scientific field can significantly drive innovation**

## Looking Ahead

We trust that our fifth newsletter has provided you with valuable insights and an overview of our ongoing initiatives. More publications and dissemination activities will be communicated in our next newsletter in December.

We wish you a pleasant autumn!

Kind regards,

The HARMONY Team

**Thank you!**

