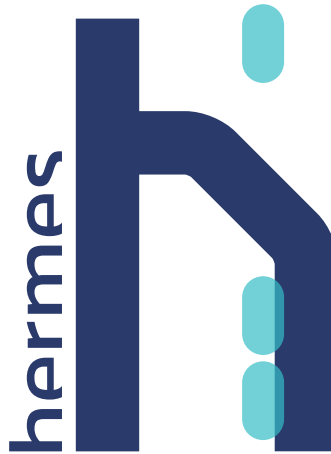




Marie Skłodowska-Curie Actions
Staff Exchanges (Se)
Call: Horizon-Msca-Se-2024
Grant: 101236439

HERMES
Towards a teraHERtz
short-range wireless
communication system
based on graphene devices
2025-2029



1st November, 2025

HERMES Kick-Off Meeting | Presentation of the Project

The University of Eastern Finland in Joensuu is hosting a presentation on the HERMES project, which aims to develop ultra-fast wireless communication systems that significantly outperform current technologies.

Targeting applications such as monitoring, security and medical sensing, the project addresses the limitations in data rate, efficiency and scalability imposed by conventional materials.

The project proposes innovative devices based on graphene and other two-dimensional (2D) materials, integrating them into communication systems operating in the terahertz (THz) range to achieve high bandwidth and breakthrough performance.

Funded under the Horizon Europe Marie Skłodowska-Curie Actions (MSCA) programme, this four-year project will foster long-term research collaborations by building an international network of academic and industrial partners. These partners will collaborate, sharing expertise and resources while training a new generation of researchers.

Consortium

(Project Coordinator) University of Cassino and Southern Lazio, Cassino, Italy. Team leader Antonio Maffucci – University of Eastern Finland, Joensuu, Finland. Team leader Georgy Fedorov – University of Exeter, Exeter, England. Team leader Mikhail Portnoi – Center for Physical Sciences and Technology, Vilnius, Lithuania. Team leader Irmantas Kašalynas – University of Technology of Troyes, Troyes, France. Team leader Christophe Couteau – University of Tokyo, Tokyo, Japan. Team leader Kuniaki Konishi – MAXLLG, Exeter Science Park, Exeter, England. Team leader Feodor Ogrin – MZ Technologies, Rome, Italy. Team leader Alfredo Babusci – TERAVID, Vilnius, Lithuania. Team leader Andžej Urbanovič.



University
of Exeter



MAXLLG.



Contact: maffucci@unicas.it