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DI PADOVA

Focal- Free-space Optical Communications for Aerial-satellite networks

Radio frequency-based satellite systems are nearing their capacity limits. Without an alternative, it will be impossible to provide internet access to the billions of people currently lacking it. Optical communication accommodates a much larger bandwidth and enhances data security via quantum communications. The first optical intersatellite links are already being deployed. With the support of the Marie Skłodowska-Curie Actions programme, the FOCAL project aims to prepare Europe's young minds for the potential explosion in aerial and space optical nodes as a new communication network in the skies. FOCAL will create a doctoral training network focused on aerial and space optical wireless technologies for future telecommunications networks with endless connectivity, superb resilience and quantum-proof security.

Coordinator: Ecole Centrale de Marseille Egim

Beneficiary: Università degli Studi di Padova

UNIPD Supervisor: Vallone Giuseppe

Department: Ingegneria dell'Informazione

Total Contribution: € 3569 385,60

Project Duration in months: 48

Find out more: <https://cordis.europa.eu/projects/en>