

A European Training Network for Terahertz Photonics for Communications, Space, Security, Radio-Astronomy, and Material Science

Strong Network

Global Partners

~4M€ Budged





- 2 research institutes
 - 3 SMEs
- 2 large enterprises



15 divers associated partners in Europe, Asia and North **America**



to train 15 innovative and entrepreneurial researchers

TERAOPTICS will enable the next generation of photonic driven THz technology and train the next generation of researchers in this key technology area

> Challenge 1: Fundamental limits for optical-to-THz power conversion, frequency tunability and phase stability

5 Key Research Challenges

Challenge 5: Development of integrated THz photonic solutions and fundamental investigations on the processing in the optical and THz domain



Challenge 2: Scalable coherent arrays of photonics emitters/detectors to enable the synthesis of directional controlled high power multifrequency THz signals

Challenge 4: How to design (meta)materials to approach fundamental limits on functionability for THz components?

Challenge 3: Fundamental limits to optically mediated THz mixing and detection



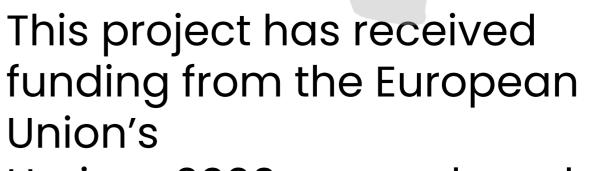










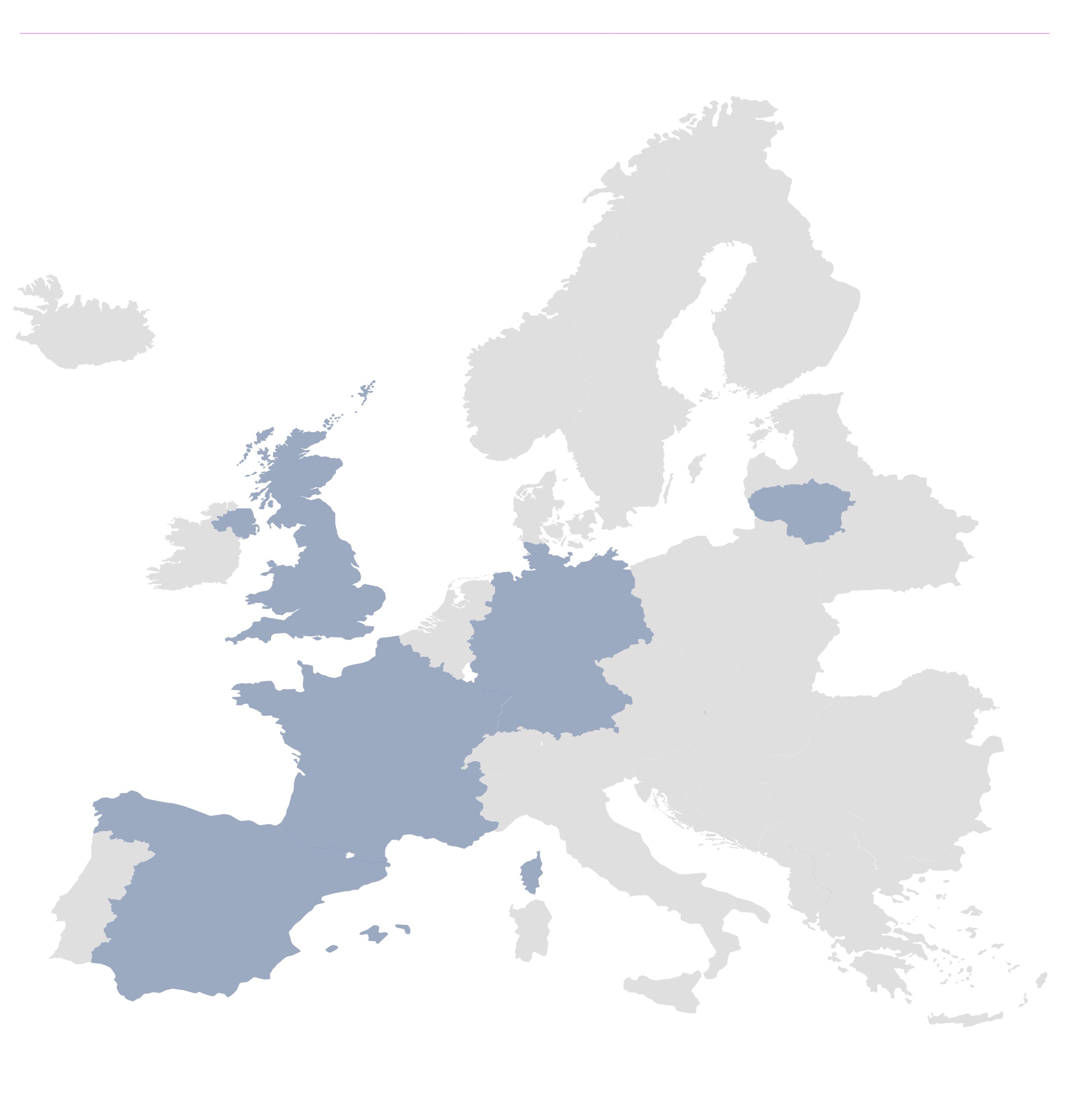


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A European Training Network OOO



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