



SHIFT - Sustainable Technologies Enabling Future Telecom Applications

GENERAL INFORMATION

Duration: 36 months
Start and end date: 2022 12 01 - 2025 11 30
Number of partners: 43
Total budget: € 67M
EU budget contribution: € 18,70M

SHIFT OBJECTIVES

- Develop new Semiconductor and packaging Technologies for the high frequencies of 6G era
- Demonstrate the new semiconductor technologies by innovative and competitive System Demonstrators for
 - *Wireless and Fiber optics Telecommunication systems*
 - *Satellite telecommunication and Earth Observation systems*
- Demonstrate their economic and societal effects while reducing current environmental impacts

PARTNERS





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SHIFT makes significant contributions to the “twin transition” through innovations for advanced telecommunications



SHIFT develops innovative semiconductor and packaging technologies for telecommunication areas such as 5G NR (Beyond 5G) and 6G wireless network access and backhaul, ultra-high speed optical links between servers, satellite telecommunications, and Earth observation



SHIFT contributes to environmental and societal concerns by analysing the carbon footprint of telecommunications products through their manufacturing chain, operational use, and recycling



SHIFT supports Europe’s will for sovereignty in semiconductors by accelerating the development and dissemination of new European technologies