



# 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



**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

## PARTNERS



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in @shift-kdtju

Co-funded by the European Union

Chipsjü

ACKNOWLEDGEMENT: SHIFT receives funding within the Chips Joint Undertaking (Chips JU) - the Public-Private Partnership for research, development and innovation under Horizon Europe - and National Authorities under grant agreement n° 101096256.