SHIFT - Sustainable Technologies Enabling Future Telecom Applications

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

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

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

PARTNERS

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Co-funded by the European Union

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.