

An introduction to 6G Flagship Program

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The Finnish 6G Flagship program at the University of Oulu is a global leader and desired research partner for 5G adoption and 6G co-creation. The eight-year research program aims at envisioning and defining 6G-enabled digital world towards 2030, aligned with the UN SDGs, where the physical and virtual worlds meet, and wireless connectivity expands to all areas of life. For this purpose, 6G Flagship's experts develop fundamental 6G technology components, novel wireless solutions and business approaches in four research areas - wireless connectivity, device and circuit technologies, distributed intelligent computing, and sustainable human-centric services and applications.

Since the program launch in May 2018, the experts have shared research visions, key results and initial solutions in more than 1,500 peer-reviewed articles and 13 6G white papers demonstrating the scientific impact of the massive 400-person research effort. In March 2019, 6G Flagship launched the world's very first series of 6G events – 6G Wireless Summit – which is now organized jointly with EuCNC.

The program partners with various stakeholder groups from research community and political decision makers to companies representing both ICT development and a broad range of ICT user fields from health sector to heavy industry. Research teams within the 6G Flagship program at the University of Oulu also lead and contribute to numerous EU funded projects (<https://www.oulu.fi/6gflagship/partnerships>). The joint development of applications in verticals paves the way for sustainable data-driven society enabled by near-instant, unlimited connectivity.