



**6G**

**FLAGSHIP**

**UNIVERSITY  
OF OULU**

---

# 6G State of Play in Finland

Matti Latva-aho  
6G Flagship Director  
[matti.latva-aho@oulu.fi](mailto:matti.latva-aho@oulu.fi)

# 6G Public Research in Finland – Main Components



## EU LIAISON

EU level views on key 6G technologies; 62 projects with 380M€ funding; key project Hexa-X & Hexa-X-II



6GSNS



6G BRIDGE

## FUNDING

Business Finland funding programme 1/23 – 12/26 with 130M€ budget; currently about 30 projects funded.

## RESEARCH

National research flagship for 5/2018 – 6/2026 with 251M€ budget



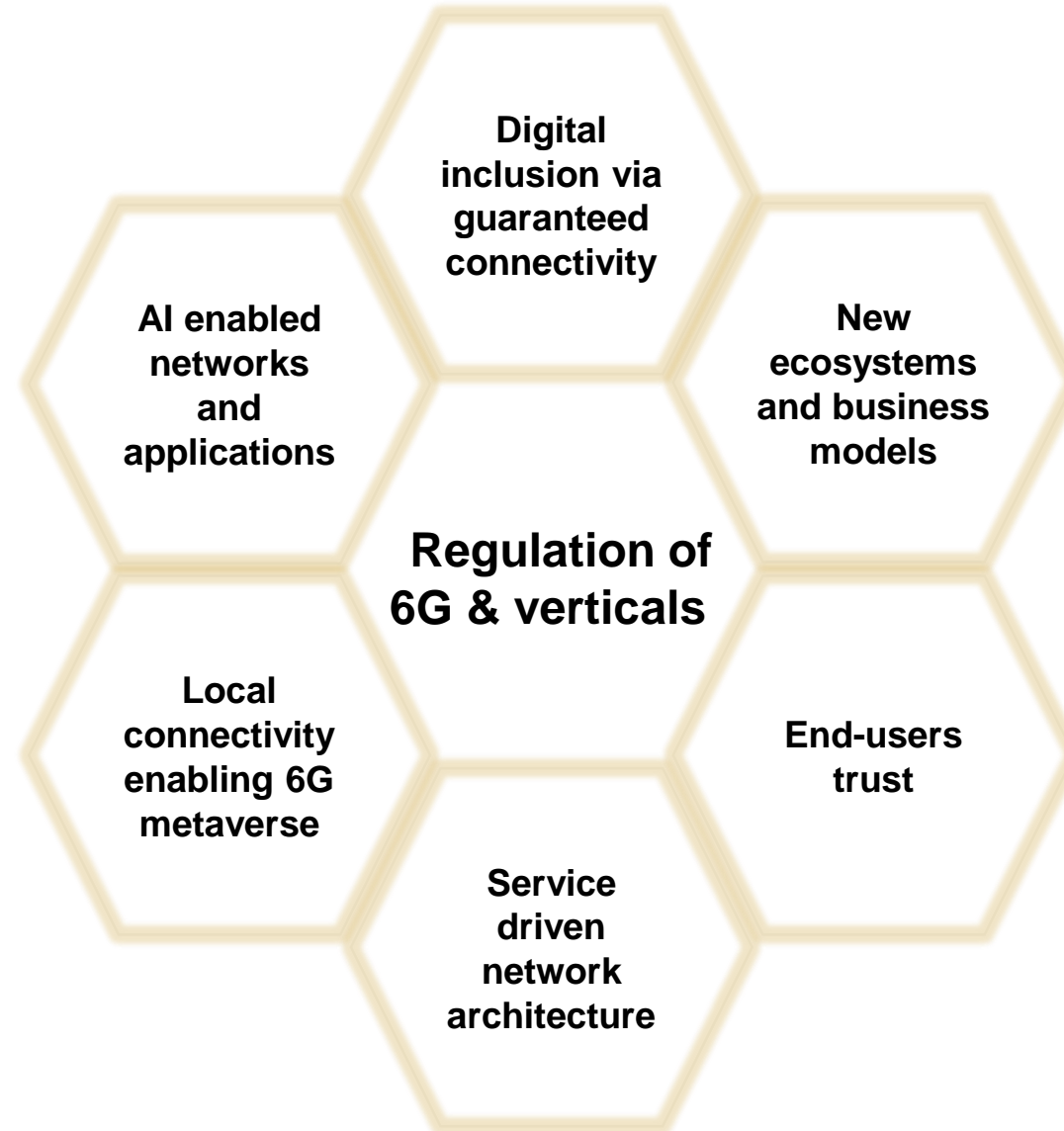
6G  
FLAGSHIP  
UNIVERSITY  
OF OULU



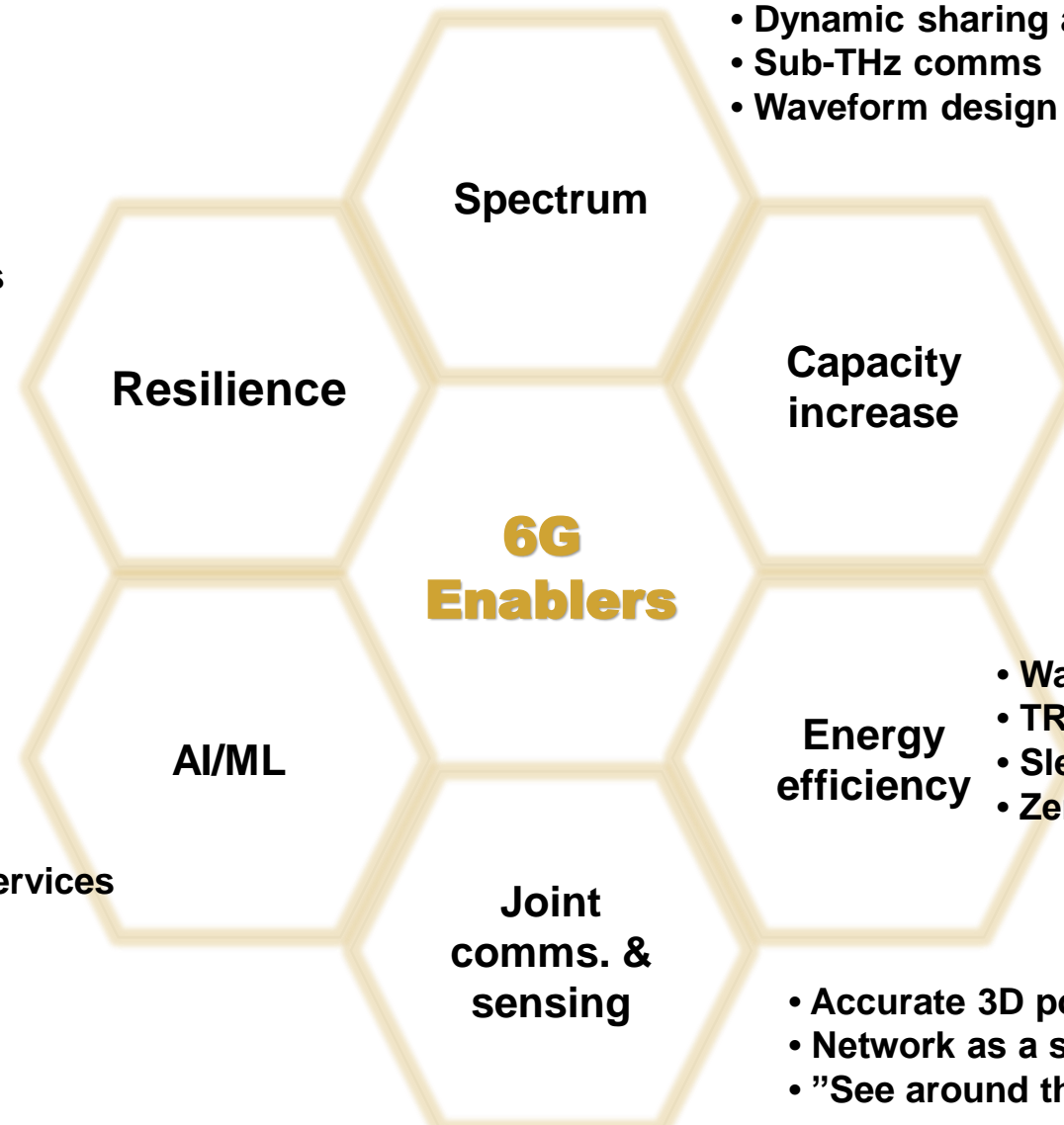
6GFinland

## POLICY

National 6G coalition formed on 5/22 to lead 6G policy level, and other strategic discussions in Finland



# Some Key Areas for 6G RAN Research



- Dynamic sharing at FR3
- Sub-THz comms
- Waveform design

- Massive MIMO
- ML based beamformers
- RIS
- 3D RAN

- Waveforms
- TRX architectures for mMIMO
- Sleepmode strategies
- Zero energy IoT devices; wireless energy TX

- Accurate 3D positioning with minimum overhead
- Network as a sensor
- "See around the corner"

- 6G design for critical communications
- Resilience against RF & cyber attacks
- Resilience in network operation

- ML in RAN optimization
- RAN & edge boosting AI apps. and services
- Semantic communications



**FLAGSHIP**  
UNIVERSITY  
OF OULU

**More than wireless.**

6GFLAGSHIP.COM • #6GFLAGSHIP

