

A hand is shown pointing towards the right side of the image. The background is a dark blue, futuristic digital interface with various glowing icons and text. The icons include a bar chart, a globe, gears, a lightbulb, a Wi-Fi symbol, a smartphone, a cloud with a refresh symbol, and a radio tower. The text '6G' is prominently displayed in the center. The overall theme is 5G and 6G technology.

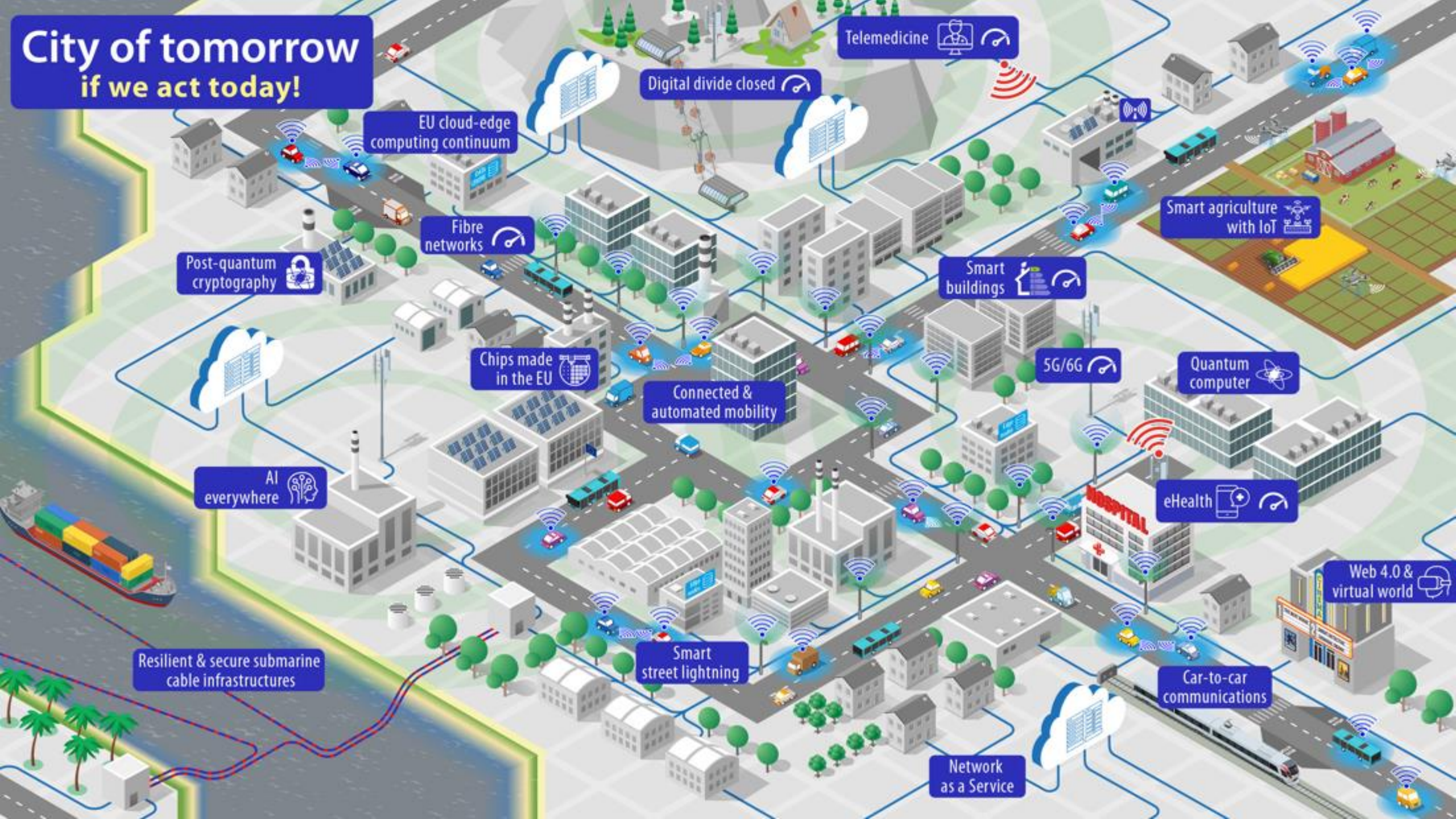
STOP WORRYING AND LOVE WORLD-CLASS 5G ADVANCED/6G

6G

FINLAND | 6G Symposium Spring 2024
Space Business Forum – 16 April 2024

Pekka Rantala
Head of 6G Bridge Program, +358 40 503 8808

City of tomorrow if we act today!



Post-quantum cryptography

EU cloud-edge computing continuum

Digital divide closed

Telemedicine

Smart agriculture with IoT

Fibre networks

Smart buildings

AI everywhere

Chips made in the EU

Connected & automated mobility

5G/6G

Quantum computer

eHealth

Web 4.0 & virtual world

Resilient & secure submarine cable infrastructures

Smart street lighting

Car-to-car communications

Network as a Service

Levi, Finland – 9-11, April 2024
[180 In-Person & 877 Online]



Connected Collaborative Computing in 6G



3B People

#People +60%

AI
APIs
AR



Sustainability

Efficiency 20–100x

Chips
Cloud
Cybersecurity



3 Worlds

Biz potential 10–100x

Regulation
Spectrum
Standardization

Some Takeaways from Discussions

- Resilience & 6G workshop: e.g. how dynamic spectrum sharing, ad-hoc networks and cognitive radio could contribute to security & resilience.
- Programmability is the key considering 5G/6G networks.
- Edge computing (billions of devices) <-> fog computing (millions of nodes) <-> cloud computing (1000s of data centers). Hard part is to understand security and business models.
- NTN needs to be integrated into TN, not just a backhaul or backup solution. Future innovation requires "sharing by design" principle between NTN and TN.
- The future of telcos is to orchestrate networks of networks. LLMs is one way to enable green AI.
- Orchestration need in the future RF: 5G, 6G, WiFi, LiFi, NTN -> standard templates needed to ensure compatibility, even if RF is software based.

Two Quick Polls

IAC 2024

- The 75th International Astronautical Congress (IAC)
- Milan, Italy (14 – 18 October 2024)

EXPO OSAKA 2025

- EXPO open 6 months, 13.04.2025 – 13.10.2025
- Main theme "Designing Future Society for Our Lives"
- Subthemes: Saving Lives, Empowering Lives, Connecting lives
- 165 countries participating
- Expecting 28 million visitors of which most visitors (90 %) are Japanese

6G Bridge – Homepage & Newsletters

