

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

6G

**FINLAND** | News Flash of 6G BRIDGE Program  
Space Business Forum – 8 March 2024

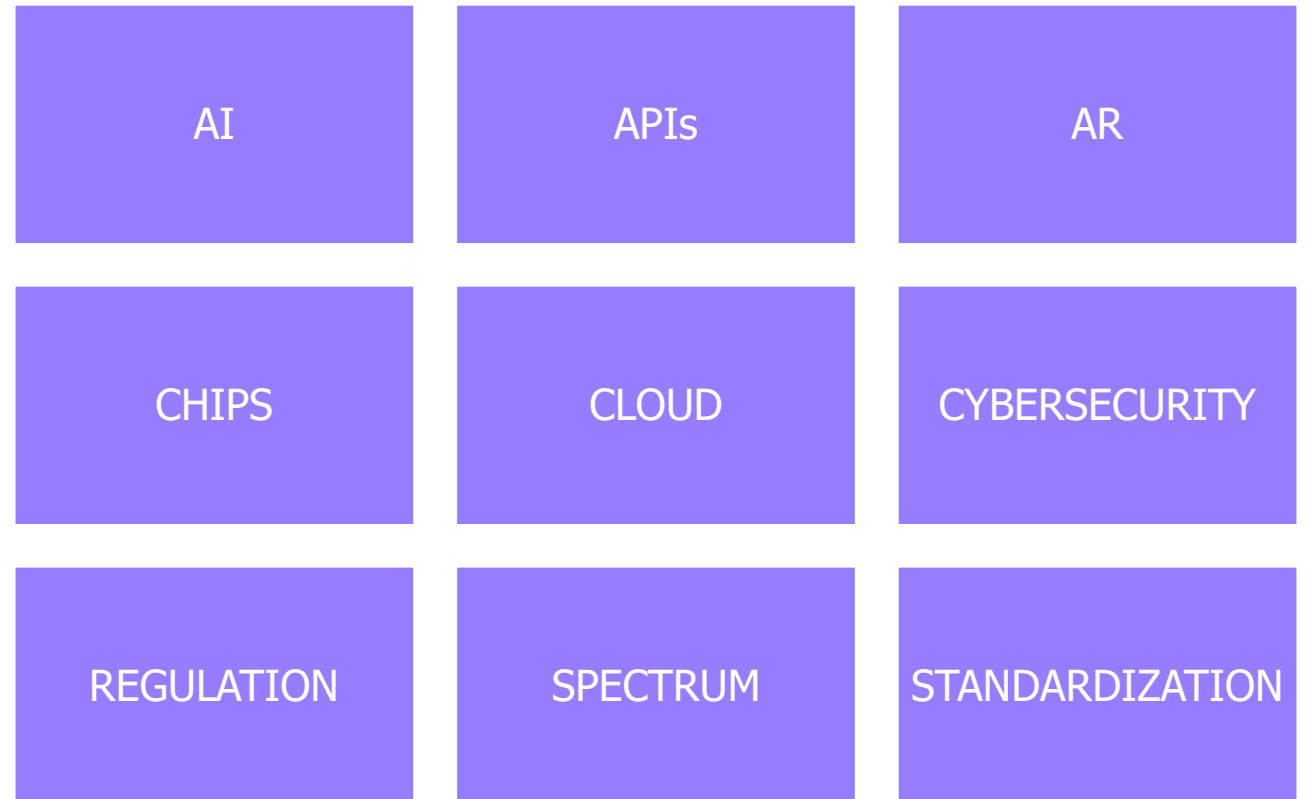
*Pekka Rantala*  
Head of 6G Bridge Program, +358 40 503 8808

# Why is 5G Advanced/6G Tech So Decisive vs 5G?

- ✓ **3B People**  
(# of people +60%)
- ✓ **Sustainability**  
(Efficiency 20-100x)
- ✓ **3 Worlds**  
(Biz potential 10-100x)

# Why is 5G Advanced/6G Tech So Decisive vs 5G?

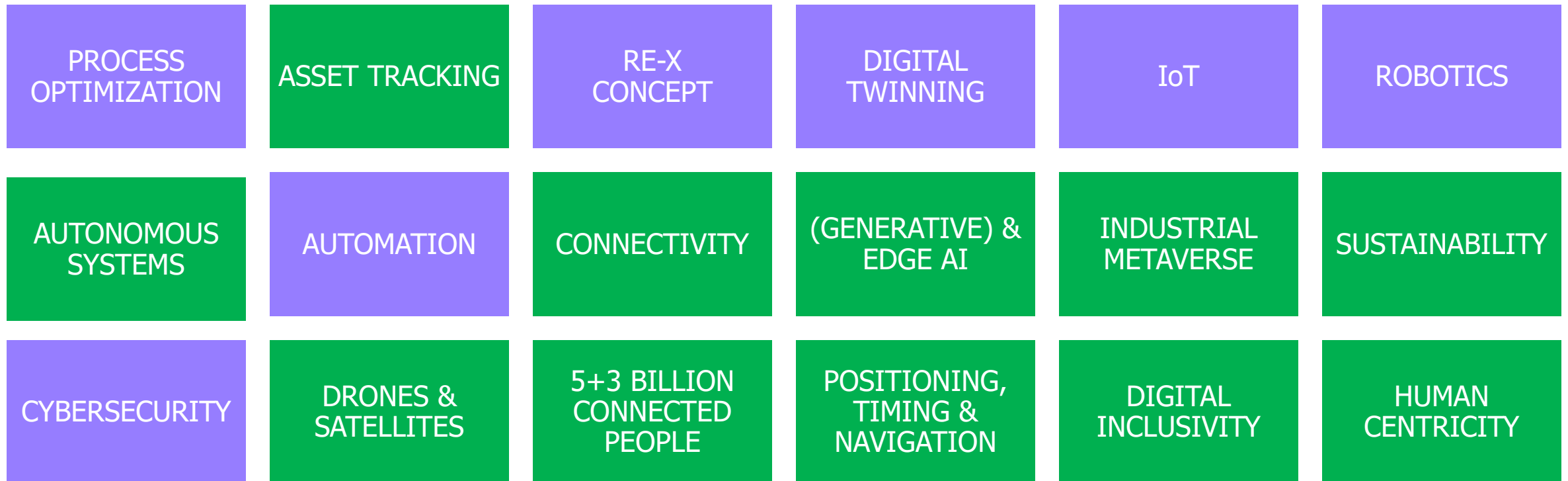
- ✓ **3B People**  
(# of people +60%)
- ✓ **Sustainability**  
(Efficiency 20-100x)
- ✓ **3 Worlds**  
(Biz potential 10-100x)



# 6G BRIDGE – Your Key to Twin-Transition

PROCESS OPTIMIZATION	ASSET TRACKING	RE-X CONCEPT	DIGITAL TWINNING	IoT	ROBOTICS
AUTONOMOUS SYSTEMS	AUTOMATION	CONNECTIVITY	(GENERATIVE) & EDGE AI	INDUSTRIAL METAVERSE	SUSTAINABILITY
CYBERSECURITY	DRONES & SATELLITES	5+3 BILLION CONNECTED PEOPLE	POSITIONING, TIMING & NAVIGATION	DIGITAL INCLUSIVITY	HUMAN CENTRICITY

# 6G BRIDGE – Your Key to Twin-Transition



# **MWC Barcelona 2024**

Some Takeaways

# From Processing to Predictions

---

Wisdom

Situational Understanding

---

Knowledge

Situational Awareness

---

Information

Common Situational Picture

---

Data

Data

---

# 5G connected industrial drone

Technology that helps the world act together

Nokia Drone Networks – A turnkey Drone-in-a-Box solution for Drones as a Service



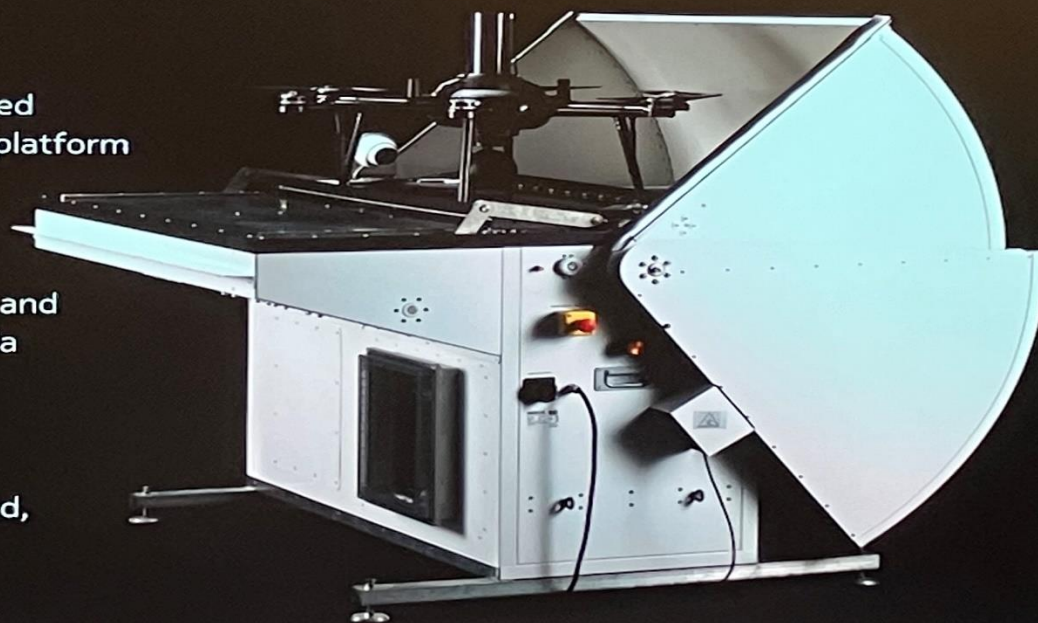
Edge-cloud based  
data collection platform



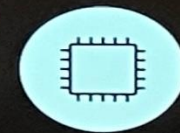
Software, SLA's and  
Services by Nokia



4G/5G connected,  
BVLOS ready



Made in Finland



Integrated GPU,  
Onboard Apps



"aaS" or CAPEX



# 5G connected industrial drone



# Volumetric video for collaboration









- Telepresence & enterprise communication
- Tele-operation
- Holographic social media
- Virtual augmented live shows
- Holographic calls with loved ones
- Immersive training and education





# Turning light into insights

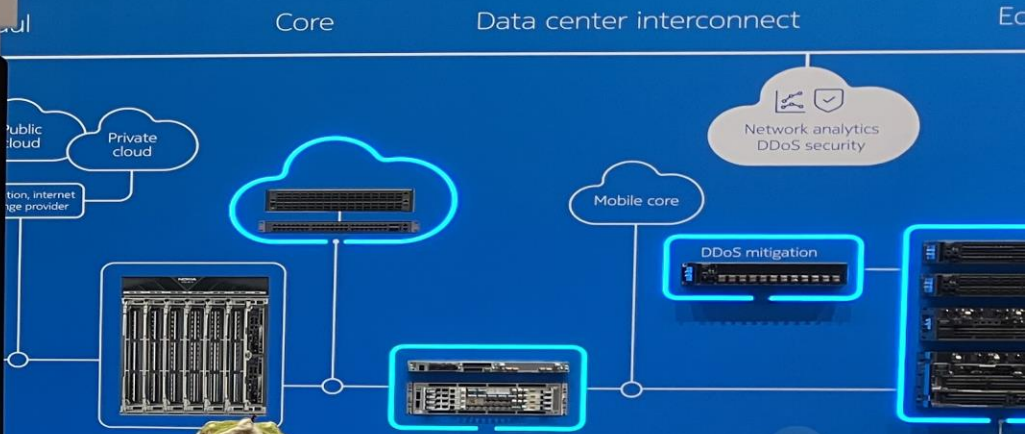
## Sensing-enabled network automation

 <b>Sense</b> Collect and deliver data	 <b>Think</b> Detect and classify events and threats	 <b>Act</b> Actionable event response
 <b>PSE</b> Photonic Service Engine	 WaveSuite: Health and Analytics	 WaveSuite: workflow management

Powered by research from

faster, smarter, greener



# Biz Opportunity for You

"Large Indian tech company/system integrator is looking for partners in 5G/6G NTN, NDN and LEO Communications."

- [Pekka.Rantala@businessfinland.fi](mailto:Pekka.Rantala@businessfinland.fi)
- [Robin.Singh@businessfinland.fi](mailto:Robin.Singh@businessfinland.fi)

**BUSINESS  
FINLAND**

# **PORTFOLIO UPDATE & HOW TO FIND MORE INFORMATION**

Business Finland

# 6G Bridge Portfolio

Maritime	6G SW for massive networks of connected devices	Liquid IoT system architecture	Robustness of 6G via AI/ML	Integrated sensing and communications	6G networks with reflective intelligent surfaces
Local 6G	Next gen healthcare	Multi-band RF	QoS for heavy machines	Terahertz antennas	Radio channel aware ML based 6G design
RedCap over NTN	Digital twinning of PANS	Energy awareness & efficiency	Extreme machine communications for 6G	Neural Publish / Subscribe method	Network security in 6G
Custom silicon for 5G/6G, edge AI	Energy vertical	Cloudify i.e. joint comms and computation	3D Model	Autonomous traffic	6G test network

Levi, Finland – 9-11, April 2024  
**:: In-Person & Online ::**



# 6G Bridge – Homepage & Newsletters

