

**BUSINESS  
FINLAND**

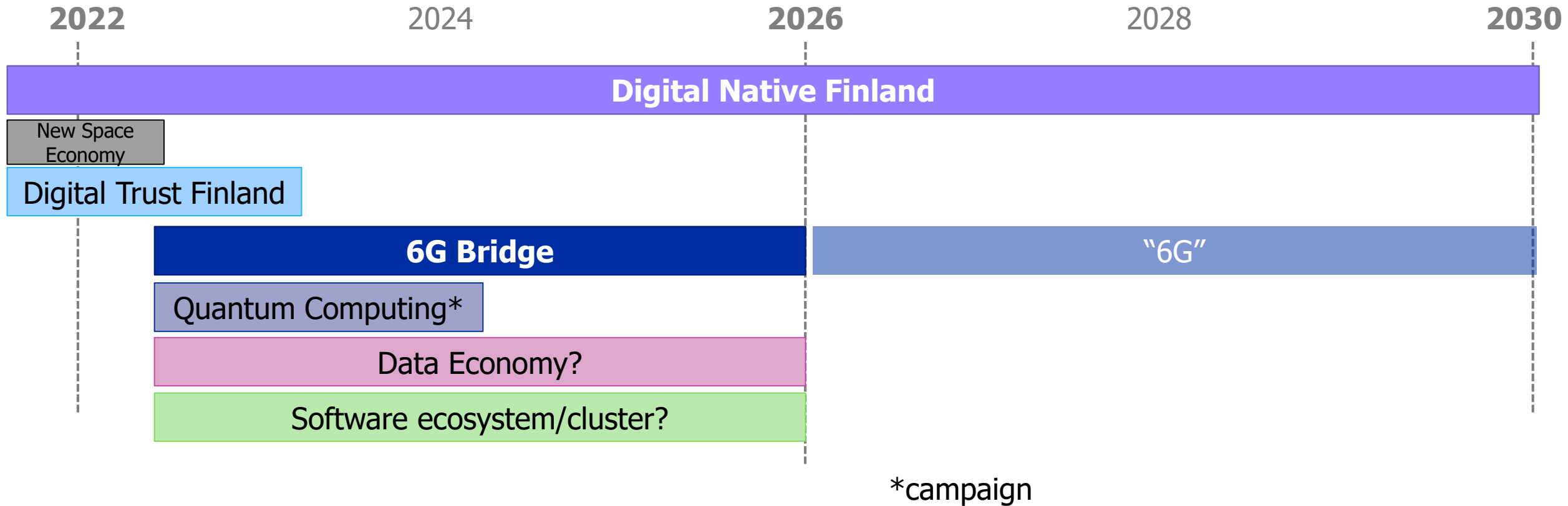
# **6G Bridge Program Update Sep 2022**

Traficom | 5G Momentum

8 September 2022

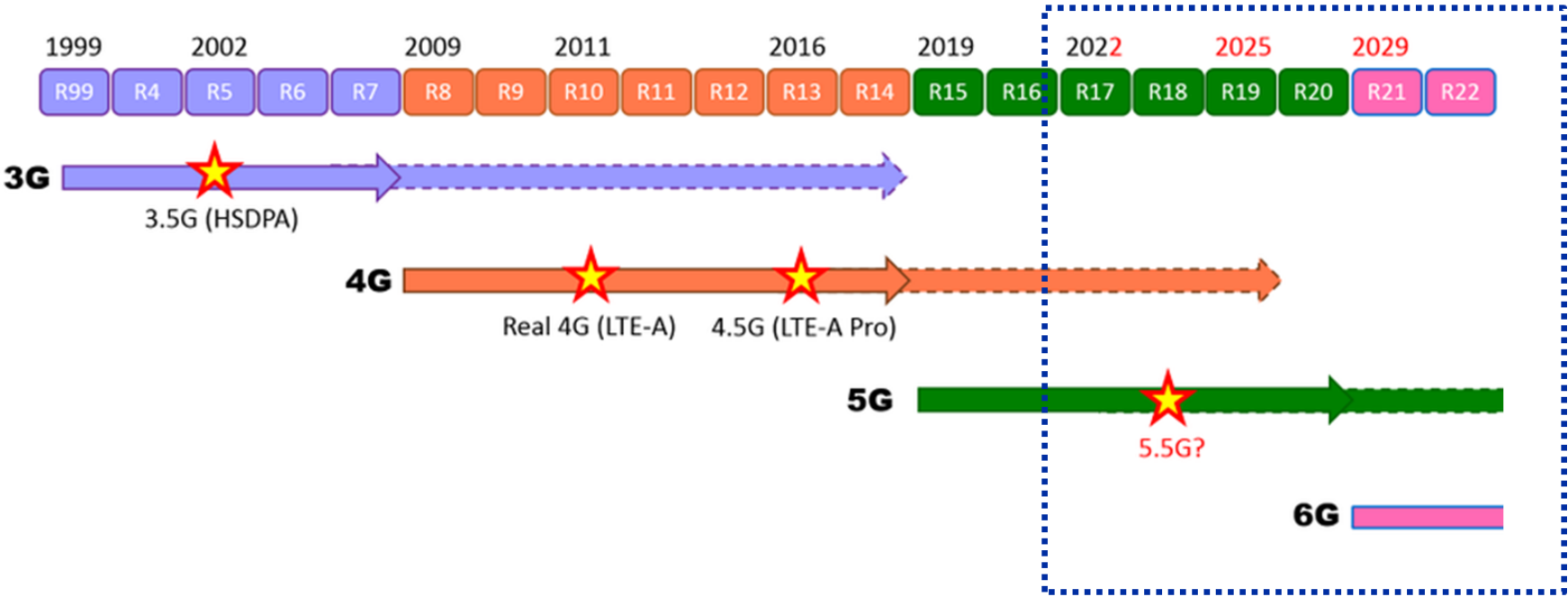
*Pekka Rantala*

# BF Mission Driven Programs & Campaigns



# Global Standardization of Cellular Communications




## 3GPP Releases Timeline



BUSINESS FINLAND 6G BRIDGE



# Current State of the Art (Nokia)

Examples	5G	5G - Advanced	6G
Telepresence 	High quality video	XR, a fully immersive user experience while on the move	Holographic
Digital twins 	Digital twin of an object	Digital twin at a larger scale	Digital twin of cities and even humans with real-time synchronous updates
Localization & sensing 	Data communication & control	Provide precise location & timing services that complement GNSS	Network with a 6 <sup>th</sup> sense

# About 6G Bridge (1/2)

## SCOPE

- 5G Advanced & 6G.
- Funding budget 130M€.
- Timeframe 2022-2026, followed by next program.

## STAKEHOLDERS & CUSTOMERS

- 190 organizations, main industry ICT incl. heavyweights such as Nokia and Ericsson.
- 6G Finland, 6G Flagship, 5G Momentum, Allied ICT Finland, Academy of Finland, Technology Industries of Finland.

# About 6G Bridge (2/2)

## SOME KEY OUTCOMES

- Finnish intellectual property generated in 6G exceeds the amount generated with 5G.
- Finland is a recognized thought leader globally in 6G with an impact on the market (incl. Finnish impact on ITU).
- Finnish stakeholders have concrete partnerships with EU, US, JP, Nordics, UK, CA with essential role.
- Finland is a leading country in international ICT talent and investment attraction.
- Finland has established the world's 1<sup>st</sup> 6G test network which is widely recognized.

BUSINESS  
FINLAND

**“6G BRIDGE”**  
**STRATEGIC RESEARCH &**  
**INNOVATION AGENDA**

# Strategic Research & Innovation Agenda (SRIA)

- The aim of the SRIA is to define the general **framework for future research, development and innovation activities** in relation to 5G/6G technologies and the upcoming BF program.
- The SRIA would focus on four topics:
  1. Utilizing existing **5G**
  2. Developing **5G Advanced**
  3. Developing and researching **6G**
  4. Contributing to future testing environment for **5G/6G** development
- The SRIA should define a roadmap for these four topics. Each focus topic would have a coordinating organization that is responsible for the writing process of that topic in the SRIA.
- The SRIA is a concise white paper, not an academic study. Each topic should be covered in around 3-5 pages (excl. references, appendices etc.)



# How Does SRIA Relate to BF?

- Calls for (research focused) Ideas ~25-30 M€ (6/2022).
- Results: 48 projects, total budget of 103 Meur of which 63 Meur from BF (25 Aug 2022).
- SRIA will act as a Guideline for BF & Finnish Stakeholders (9/2022).
- Closing date for applicants for applying for funding (13 Oct 2022), BF will indicate its opinion to customers in the middle of September.

# Facilitators/Editors for SRIA (1/4)

## 5G

### Facilitators

***matti.keskinen@nokia.com***

*jyrki.huusko@vtt.fi*

### Editors

*marko.hoyhtya@vtt.fi*

*matti.latva-aho@oulu.fi*

*sasu.tarkoma@helsinki.fi*

# Facilitators/Editors for SRIA (2/4)

## 5G ADVANCED

### Facilitators

***sasu.tarkoma@helsinki.fi***

*antti.toskala@nokia.com*

### Editors

*mikko.valkama@tuni.fi*

*jyrki.huusko@vtt.fi*

*matti.latva-aho@oulu.fi*

# Facilitators/Editors for SRIA (3/4)

## 6G

### Facilitators

***matti.latva-aho@oulu.fi***

*mikko.uusitalo@nokia-bell-labs.com*

### Editors

*mikko.valkama@tuni.fi*

*riku.jantti@aalto.fi*

*jyrki.huusko@vtt.fi*

*sasu.tarkoma@helsinki.fi*

*marko.hoyhtya@vtt.fi*

*pekka.rantakari@vtt.fi*

# Facilitators/Editors for SRIA (4/4)

## TEST ENVIRONMENTS

### Facilitators

***kyosti.rautiola@vtt.fi***

*olli.liinamaa@nokia.com*

### Editor

*ari.pouttu@oulu.fi*

BUSINESS  
FINLAND

**Thank You for Your Attention!**

*Pekka Rantala*

Senior Advisor  
Horizon Europe NCP