

B5G opportunities



R&S Wireless Innovation Day
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CTO of Ericsson Taiwan

We are a world leader in mobile networks

Leading position in 5G

A stylized world map in a dark blue color, centered behind the text. The map shows the outlines of continents and is partially obscured by the text.

Industry analysts:
**Ericsson
5G Leader**

Ericsson presence:
**140+ live 5G
networks**

Ericsson customers:
**Leading in
performance**

5G deployments in the early days and scaling fast.

As a leader, we are investing in our portfolio to make it easier to close that gap.

This is Ericsson



We enable the full value of connectivity by creating game-changing technology and services

Employees worldwide

105,500

R&D budget (SEK b)

















47

Patents

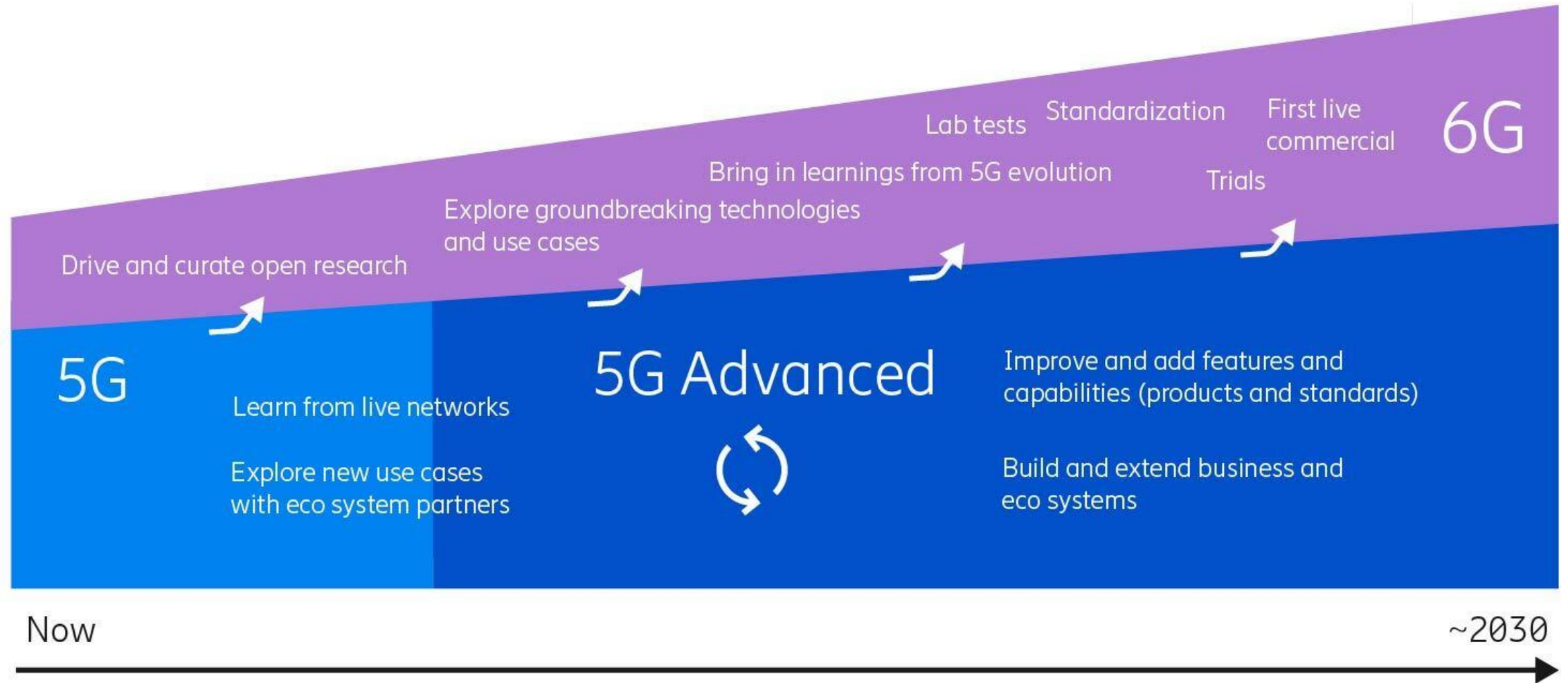
60,000+

Note 1. Data as of the Q4 2022 report

Note2. Average rate during FY 2022 – SEK/USD: 10.04

	1G (1980s)	2G (1990s)	3G (2000s)	4G (2010s)	5G (2020s)	6G (2030s)
Mobile Access	Analog $\Delta=30\text{kHz}$ 	GSM <2 GHz $\Delta=200\text{kHz}$ 	UMTS <2GHz $\Delta=5\text{MHz}$ 	LTE <6GHz $\Delta=n \times 20\text{MHz}$ 	5G <100GHz $\Delta=n \times 200\text{MHz}$ 	6G <THz $\Delta=10\text{GHz}$ 
Compute Platform						
Network Platform	Analog	Circuit (TDM)	Circuit/Packet (ATM)	Packet (IP)	Cloud	AI/ML
Copper Access	POTS 	ISDN $\Delta=20\text{kHz}$ 	ADSL $\Delta=1\text{MHz}$ 	VDSL $\Delta=30\text{MHz}$ 	G.(mg)fast $\Delta=200\text{MHz}$ 	FTTH / FWA $\Delta=10\text{GHz}$ 
Defining Application	Voice	Voice	WAP, Video	Web	IIoT	Digital – Physical Worlds
Unexpected App	Fax	SMS, ringtones	Web	Facebook YouTube	?	?
Defining EU Projects	NA	COST207	RACE 1043 (others, incl. FRAMES)	FP6: WINNER (WWI)	FP7: METIS (5GPPP)	HEXA-X (SN&S)

Mobile technology evolution



Consumer business



Key insights



Speed tiers represent a step toward a quality and value oriented pricing focus



Many service providers are moving toward content aggregation, removing most of the risks associated with traditional bundling



Advanced 5G features will be key to unlocking cloud gaming on-the-go



FWA is currently the largest 5G use case after mobile broadband in terms of uptake



It is expected that 5G end-user devices models with new form factors will soon appear at scale, making it possible for service providers to monetize 5G in new ways

Enterprise and public sector business



Key insights



Harmonizing the exposure of APIs in 5G networks together with other service providers will attract developers to innovate at scale



For a service provider or reseller, monetizing private networks starts with establishing credibility in new industries



Service providers are expanding into managed services for Wireless WAN and this is rapidly becoming the desired networking business model for enterprises that want to streamline their IT operations



Your trusted partner
for device and
application
verification



Global Presence



Taipei

Ericsson has **5** own global device labs and operates another 21 dedicated labs on customer premises



9000+

Test cases

In 266 projects

660+

Issues detected

In 80+ device models

26

Device labs

5 Ericsson labs and 21 dedicated customer labs

180+

Countries

Ericsson has global footprint

Main services



EDAV-O

For operators

For operators seeking to test and verify devices against own requirements in own network, Ericsson can supply a lab network on premises as a service. We will operate and maintain it and can also support with advice and staff augmentation



EDAV-D

For developers and device makers

For device makers, be it consumer smartphones, industrial gateways or embedded modules, who need to perform specialized deep testing in the design phase, Ericsson can provide a lab network as a service for on premises deployment



EDAV-V

In-lab verification for device and chipset makers

Very early phase development may require dedicated expertise from Ericsson in a specialized lab environment. Device makers may also want to subject their device to testing by Ericsson as an external party. For such scenarios, customers can send devices to our labs for testing. No need to invest in own lab infrastructure



EDAV-I

For industries and enterprises

Ericsson has developed a special certification program and test scope for Industry 4.0 devices. Customers send devices for certification to our labs.



<https://www.ericsson.com/tw>

For device verification inquiries, please contact
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