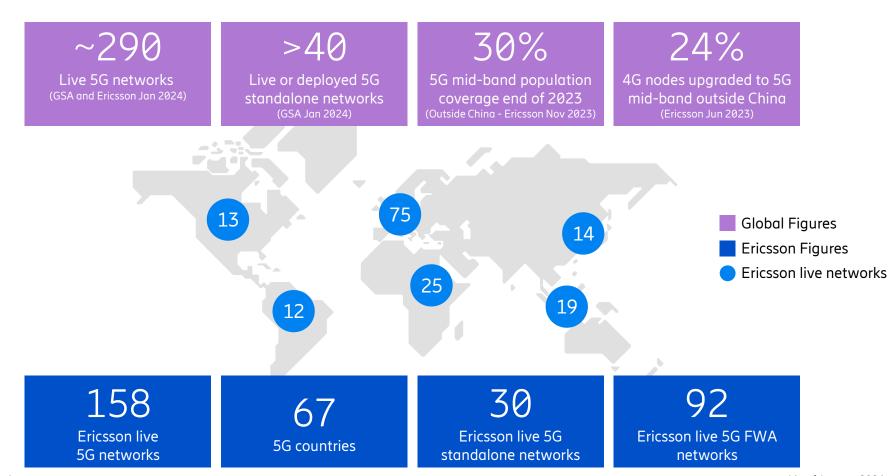


Fast 5G uptake, but still early in the cycle



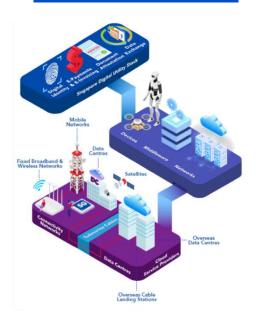


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5G driving change in Singapore & India



Singapore's Digital Blueprint



5G SA @day 1 Innovative services

>95%

5G SA population coverage

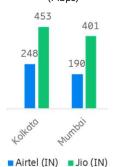
Prioritized services

Live-viewing at key events, e.g. Formula 1 India 5G rollout-out

397,923

5G RBS deployed in 14 months by Bharti and Reliance

DL Median Throughput (Mbps)



Digital services innovation focus





Differentiating traffic in high-performance networks



QoS/speed/latency

Dynamic control Resource intense



TCO/simple operations

Wireless as-a-service



Flexible manufacturing
Broadcasting





Positioning & advanced capabilities

3D mapping Location check

Coverage (in/outdoor, 3D)

Automated guided vehicles





Security, ID & authentication

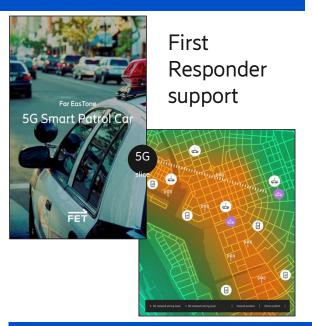
Identification
2-factor authentication
Secure access service edge

Use 5G to its full potential

Demanding 5G use cases already today



Prioritized communication



Optimized manufacturing

Car assembly plants



Real-time surgery

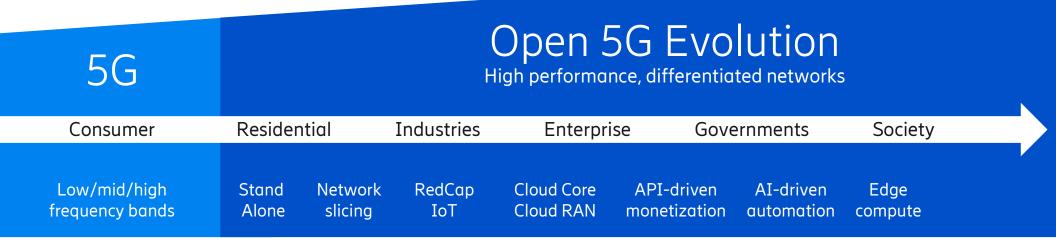
Holo-medicine with real-time XR



Reliable & resilient 5G networks, providing services with differentiated traffic

Leverage 5G to drive digitalization

Continuous mobile innovation in hardware, software and automation



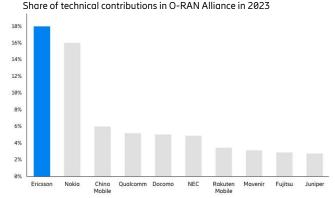
Networks will evolve with software capabilities for future services long into next decade



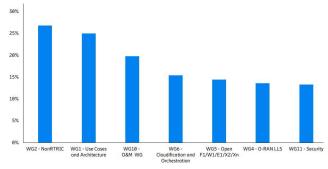
3

Leadership in 5G openness, a new industry base

- Leading contributor in O-RAN alliance
- Defining next generation lower-layer split for improved performance
- Full support in product development



Ericsson share of technical contributions in selected O-RAN Alliance working groups in 2023



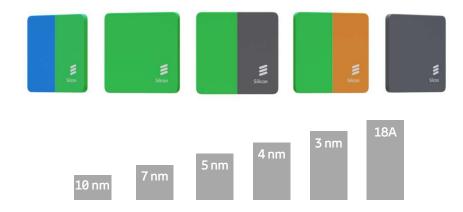
Source - O-RAN alliance standardization leadership report, Ericsson (February 2024)

A new baseline with flexibility and performance for open & programmable networks

Ericsson Silicon, technology leadership in practice



- Cutting-edge long-term ASIC program
- Efficient compute base
- Leading performance

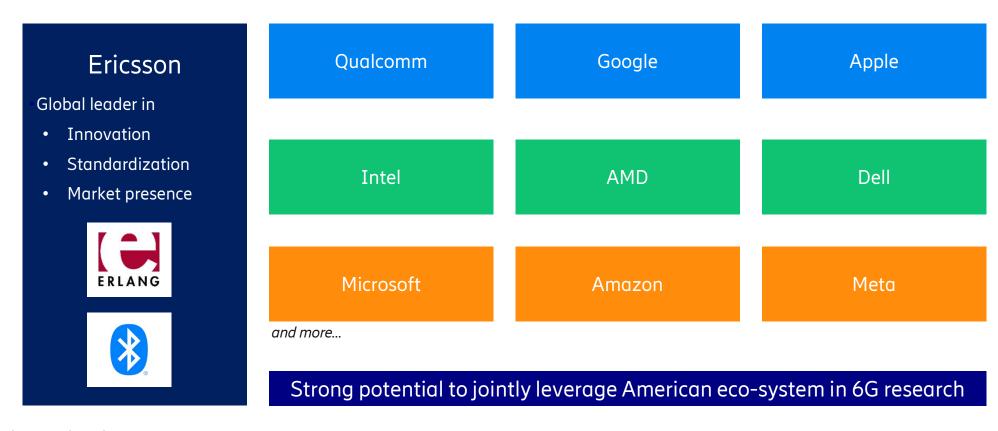




Industry-leading technology for supreme performance and energy efficiency

Driving innovation cooperation in mobile systems

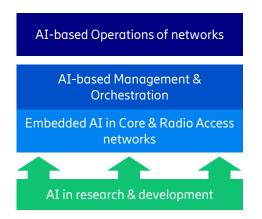




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Leading Telecom AI with world-wide R&D



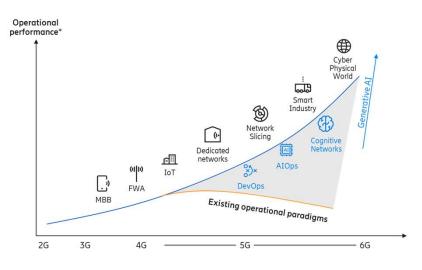


Auto incident detection ~ 95% less incidents compared to the number of alarms



Intelligent IT Ops 60% reduction in mean time for issue identification Ericsson Security Manager





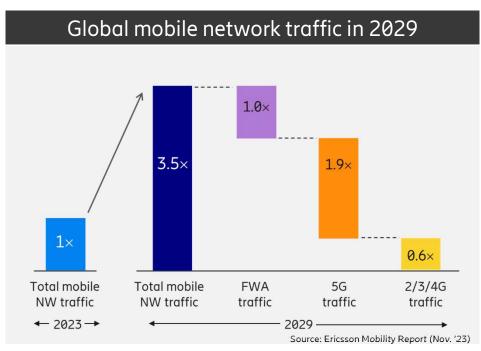
Increasing network complexity, service performance and operational efficiency need stronger AI base

AI is vital for NW operations & optimization—AI evolves with Generative AI

New devices, new services, new demands with 5G



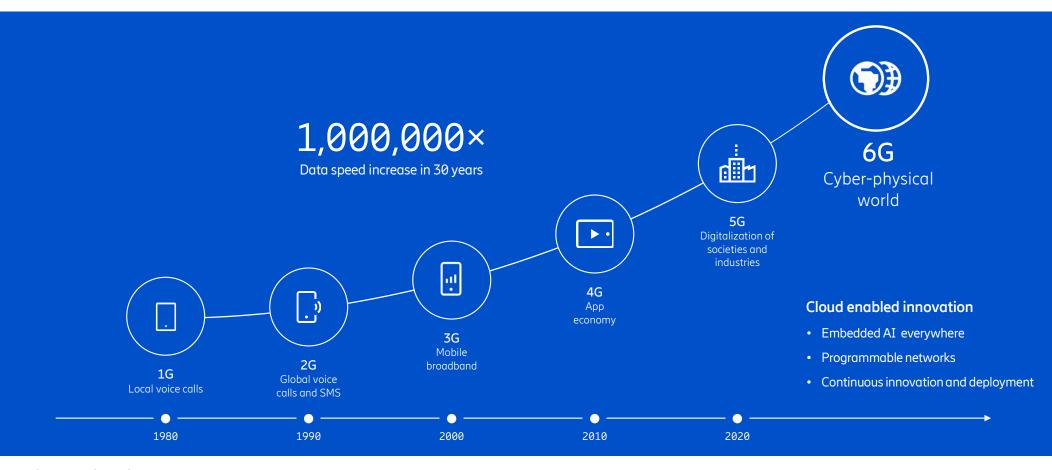




New services and devices supported in advanced 5G networks

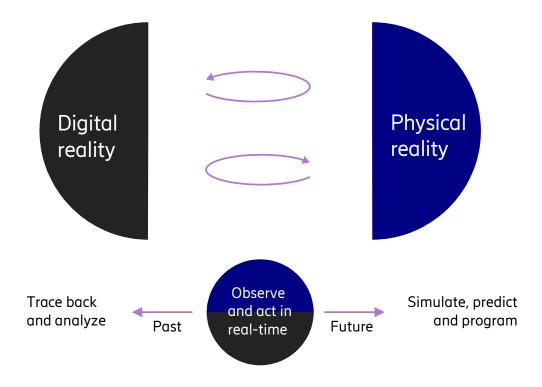
Driving mobile networks for new waves of innovation





Connecting a cyber-physical world

Wireless metaverses, twinning and more





3

What's in the cyber-physical world?

Massive merged reality



Sustainable food production



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Massive twinning



Efficient data



Situational awareness



E-health for all



6G building blocks



Enhanced communication

- Limitless connectivity
- Trustworthy systems

Cognitive networks

- Automation of networks
- AI native design
- Closed loop operation
- Continuous compute

Use cases with new needs

- Performance and new advanced services
- Efficiency and sustainability

Beyond communication value-add's

- Network as a sensor
- Device compute offload
- AI as a service
- Support functions

Flexible monetization

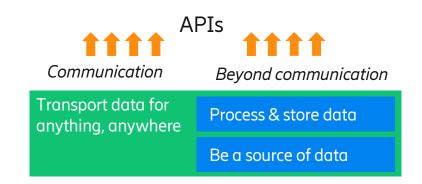
- Flexible exposure
- App-friendly APIs





- Future networks should be designed to better interact directly with the app ecosystem
 - Tailored communication service APIs

- Future networks can also take a bigger role in the combined ecosystem
 - Data and information service APIs

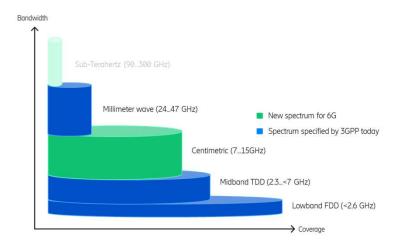


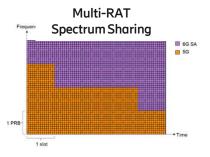


Minimize complexity, maximize performance

Key 6G principles

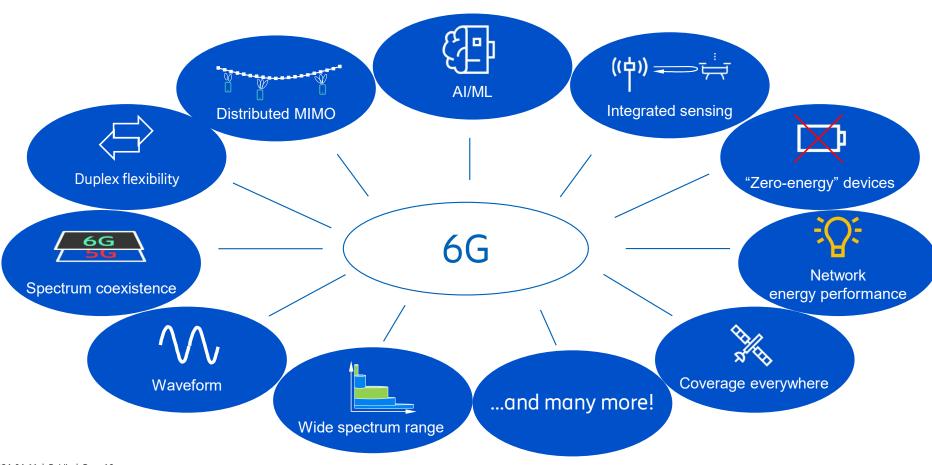
- 6G RAN shall have a standalone architecture
- 6G RAN shall interface to an Evolved 5G Core
- The standardized 6G architecture should include key open interfaces
- 6G shall operate in all existing 3GPP bands and in new cmWave bands
- 6G Spectrum Sharing shall be supported between
 5G and 6G
- 6G shall support new and evolved use cases, efficiently & sustainably





6G technology components





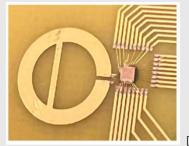
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6G zero-energy devices

Massive IoT and Zero energy devices, shown at MWC



Zero-energy IoT devices



[2]

First prototype:

- · Designed to fit with fabric
- · No need for batteries

Potential future IoT device for 6G

Tactile textiles with piezoresistive fibers



Application potential:

• Feel body pressure and movements to monitor patient

Need low-energy connection to the mobile network

Long-term use case vision to study future network needs

Technology qualification on the way to 6G

1

- Lab and field trials are needed to assess key technology steps
- WRC23 identified study items in
 - -7-8 and 14-15 GHz bands
- Potential new radio units need to
 - manage scattered spectrum in a wide bandwidth
 - coexistence with incumbents (e.g. satellite service)
- Prototype equipment under study
 - Two wide-band power amplifiers



Ericsson 6G research engagements in USA



Academic collaborations

- Princeton University (new)
- University of Texas Austin
- MIT
- Stanford University
- New York University
- Rutgers University
- University of Colorado Boulder

National Science Foundation

- RINGS partnership
- "RINGS 2.0" discussions
- FuSe and FuSe2 partnerships
- PAWR partnership
- US-Sweden 6G Research

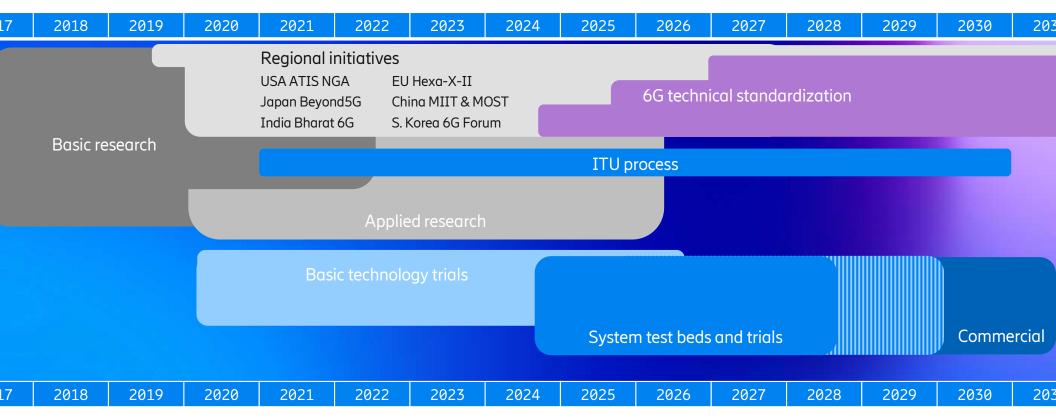
ATIS Next G Alliance

- Founding member
- Multiple leadership positions
- Research council
- Many contributions

A strong partnership between Ericsson & American leading organizations shaping 6G

6G industry timeline





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Pushing the boundaries on the way to 6G



- Continued deployment and evolution of 5G necessary to support demanding services
- 5G experience will provide vital input to 6G definition
- Early 6G studies well on way in the USA
- Important to shape study inputs for standardization activities
- Technology trials will provide essential feedback
- Leverage on strong local eco-system



