Rural Connectivity Symposium



Agenda

- What we stand for at Ericsson
- $-\,$ Technology for Good
 - Quality of Life Environmental Examples for Rural Concepts
 - Public Safety Examples
- $-\,$ Technology Enablers that become game changers for NZ
- Q&A

Turning challenges into opportunities

Global Goals	1 No poverty	2 Zero hunger 6 Clean water and sanitation	7 Affordable and clean energy	8 Decent work and economic growth 9 Industry, innovation and infrastructure	11 Sustainable cities and communities	12 Responsible consumption and production	13 Climate action			
Mobility, broadband, IoT and cloud										
Business Opportunities	 Basic connectivity Mobile financial services 	 IoT Accelerator Connected environmental monitoring 	— Pure solar — Energy performance	— 2G, 3G, 4G and 5G — Mobile financial services	 Connected urban transport Connected vehicle cloud Connected environmental monitoring 	— Smart manufacturing	 Energy performance Connected urban transport 			
THE GLOBAL GOALS Ref Secondade Development	NGER 3 GOOD HEALTH SSSS	ALITY DECAILOR 5 FORCER 6 AND SAND			Image: standard context 12 RESPONSIBLE consumption 13 CLIMATE ADD PRODUCTION ADD PRODUCTION Image: standard s	14 UKE DELOW KKATEX 15 UKE 15 OK LAND 14 OK 14 OK 15 OK 14 OK 15 OK 14 OK 15 OK 14 OK 15 OK 14 OK 15	16 FROM ANALYSIC STRONG BACTINITION STATUS			

Sustainability and Corporate Responsibility

We aim to be a responsible and relevant driver of positive change.

Company purpose: Innovating Technology for Good



Responsible business

Drive proactive agenda beyond legal compliance to maintain Ericsson as a trusted partner.

Energy, environment and climate action

Provide sustainable solutions and services through a Circular Economy approach to differentiate and create business value.

Internet for all

Deploy innovative solutions which improve mobile broadband affordability and accessibility to all.

Ericsson Partners with Communities on Water Quality Initiatives

River and Water Quality Measurements: Atlanta USA and Ottawa Canada

MISSION CRITICAL COMMUNICATION

ERICSSON

Mission Critical LTE

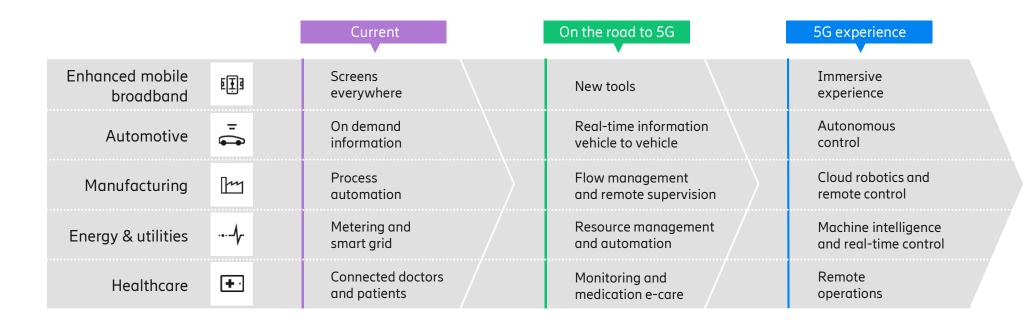
Public safety

AT&T FirstNet Critical Comms



Technology Enablers

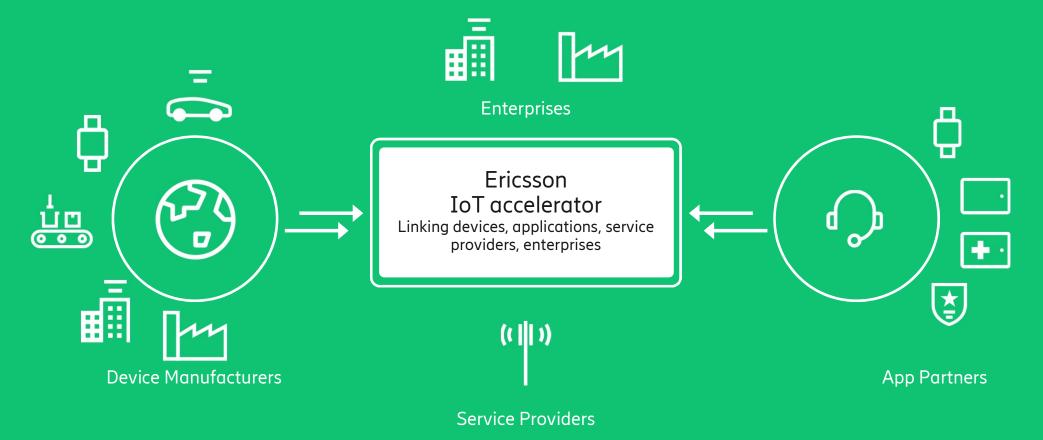
It is all about use case evolution



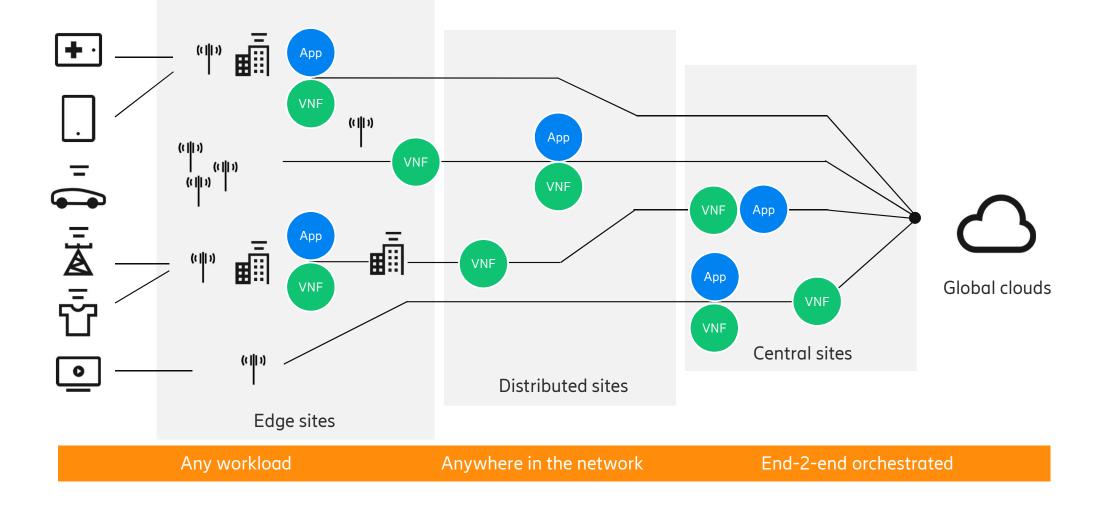
It is all about use case evolution with supporting technologies

		Current	On the road to 5G	5G experience
Enhanced mobile broadband	€ <u>₹</u>]3	Screens everywhere	New tools	Immersive experience
Automotive	-	On demand information	Real-time information vehicle to vehicle	Autonomous control
Manufacturing	ŀ	Process automation	Flow management and remote supervision	Cloud robotics and remote control
Energy & utilities	···{{-	Metering and smart grid	Resource management and automation	Machine intelligence and real-time control
Healthcare	••	Connected doctors and patients	Monitoring and medication e-care	Remote operations
Technologies		Multi-standard network Cat-M1/NB-IoT Cloud optimized functions VNF orchestration	Gigabit LTE (TDD, FDD, LAA) Massive MIMO Network slicing Dynamic service orchestration Predictive analytics	5G NR Virtualized RAN Federated network Distributed cloud Real-time machine learning/a

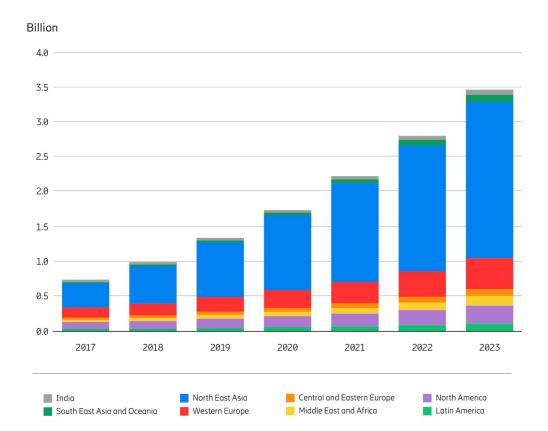
Building an IoT ecosystem for 5G on our IoT accelerator



Distributed cloud



Cellular IoT connections per region



Cellular IoT connections in 2023 expected to reach 3.5 billion, with 30% annual growth rate.

Connected devices (billion)

IoT	2017	2023	CAGR
Wide-area IoT	0.8	4.1	30%
Cellular IoT ²	0.7	3.5	30%
Short-range IoT	6.2	15.7	17%
Other devices			
PC/laptop/tablet	1.6	1.7	0%
Mobile phones	7.5	8.6	2%
Fixed phones	1.4	1.3	0%
Total connected devices	17.5	31.4	11%

These figures are also included in the figures for wide-area IoT

Summary

- Ericsson has mapped our portfolio to solutions to address the Sustainable Development Goals such as Sustainable and Safe Communities as well as Clean Water Initiatives which bring significant value to Rural New Zealand.
- Ericsson Technology for Good Initiative is aligned with our MNO customers' and their Communities in order to improve Quality of Life and Provide Public Safety for their Communities
- IoT and 4G/5G are the foundation for the technology platforms upon which the innovation for Rural Initiatives will occur in the coming years in NZ

