

A woman wearing safety glasses and a dark shirt is working on a large, blue industrial machine. The machine has several green lights on top and is emitting a blue glow. The background is dark and industrial.

Evolución Tecnológica de Redes Móviles

Y su aporte para el crecimiento ágil de las empresas

Daniel Martello
Strategic Network Evolution Manager
South Latin America

From copper wire to artificial intelligence



+140

Years of
enabling
communication

95%

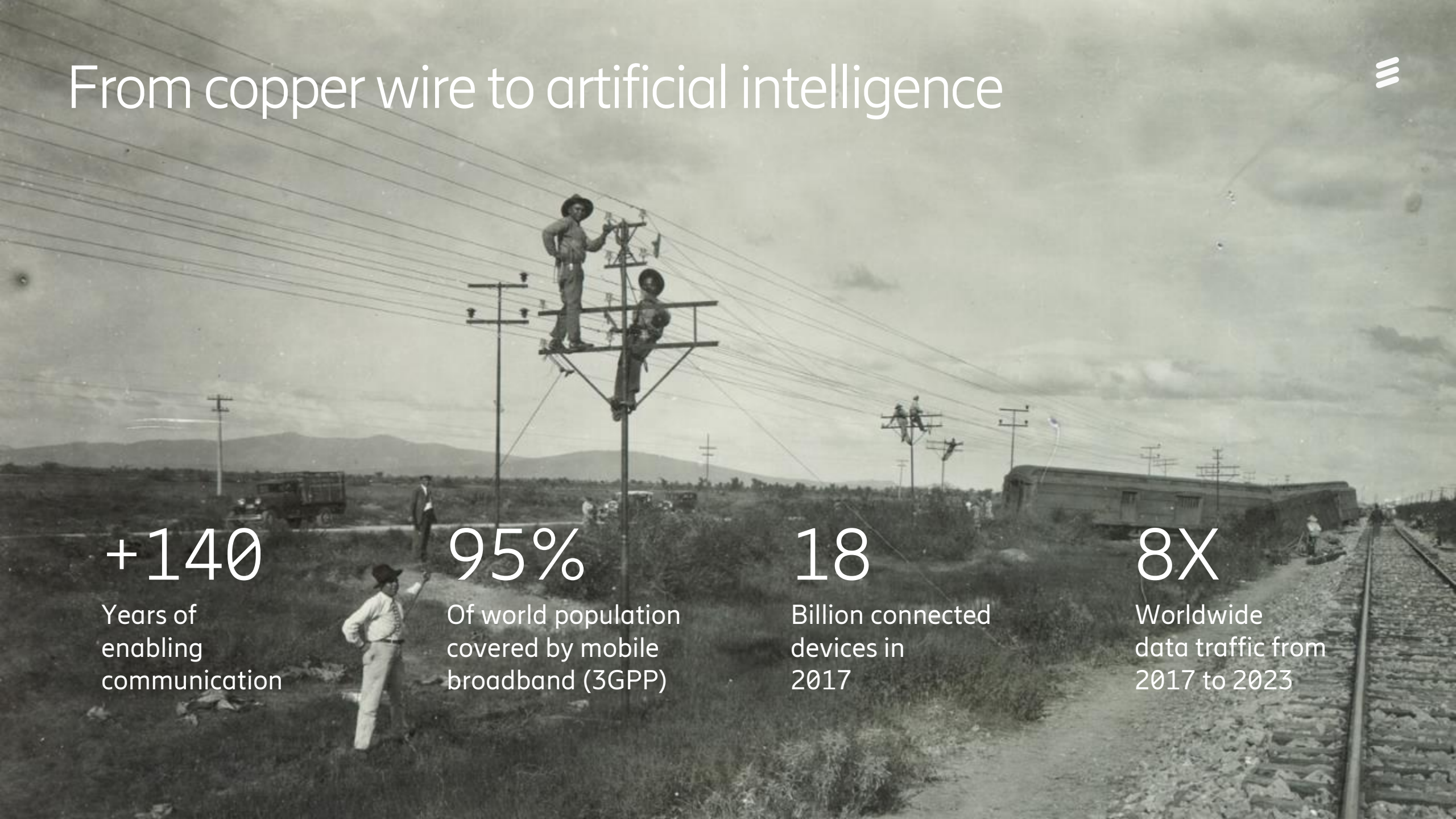
Of world population
covered by mobile
broadband (3GPP)

18

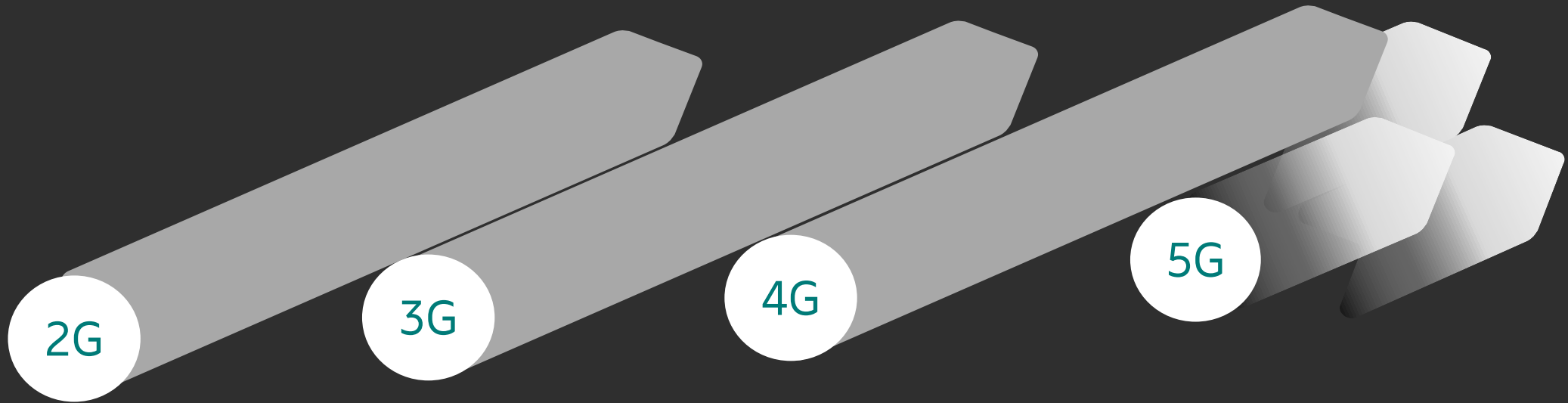
Billion connected
devices in
2017

8X

Worldwide
data traffic from
2017 to 2023



The G evolution from voice to industry 4.0



VOICE
Massive mobile voice communication

BROWSING
Feature phones and mobile broadband introduction

VIDEO
Smartphones popularization and mobile data traffic exponentially increase

MULTIPLE INDUSTRIES
Any device can provide access to the content and enable new business opportunities across industries

5G is use case driven

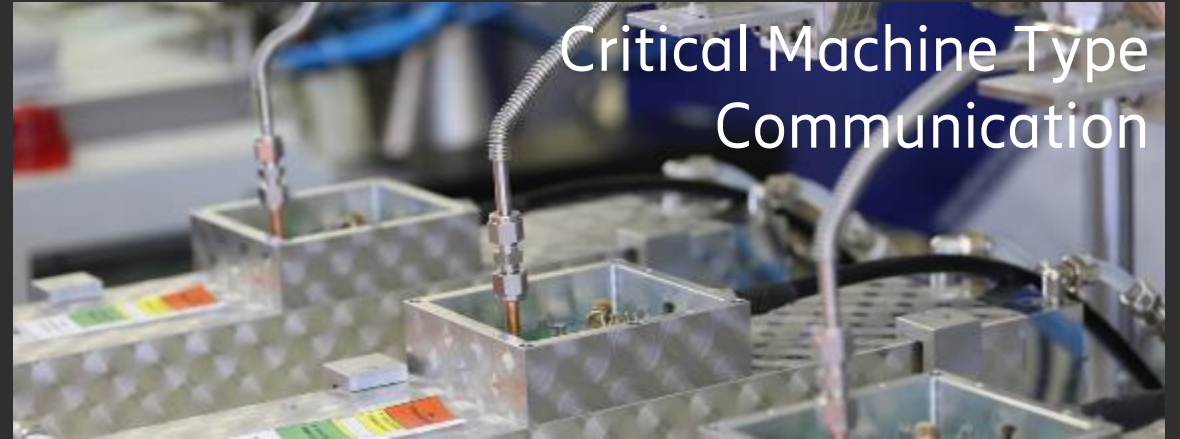


Massive Machine Type Communication



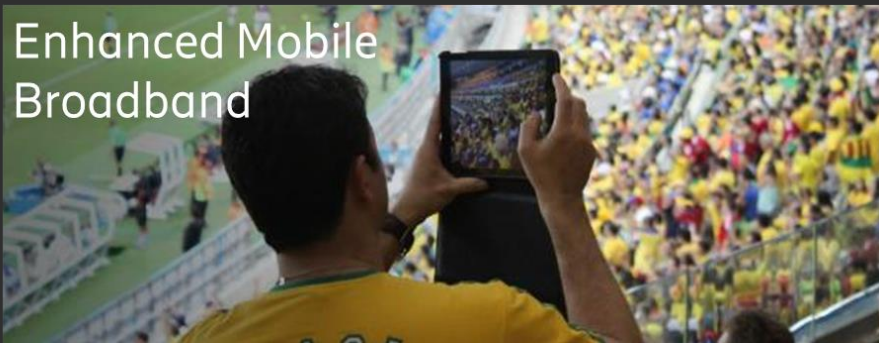
Low cost, low energy, small data volumes, massive numbers

Critical Machine Type Communication



Ultra reliable, ultra low latency
Very high availability

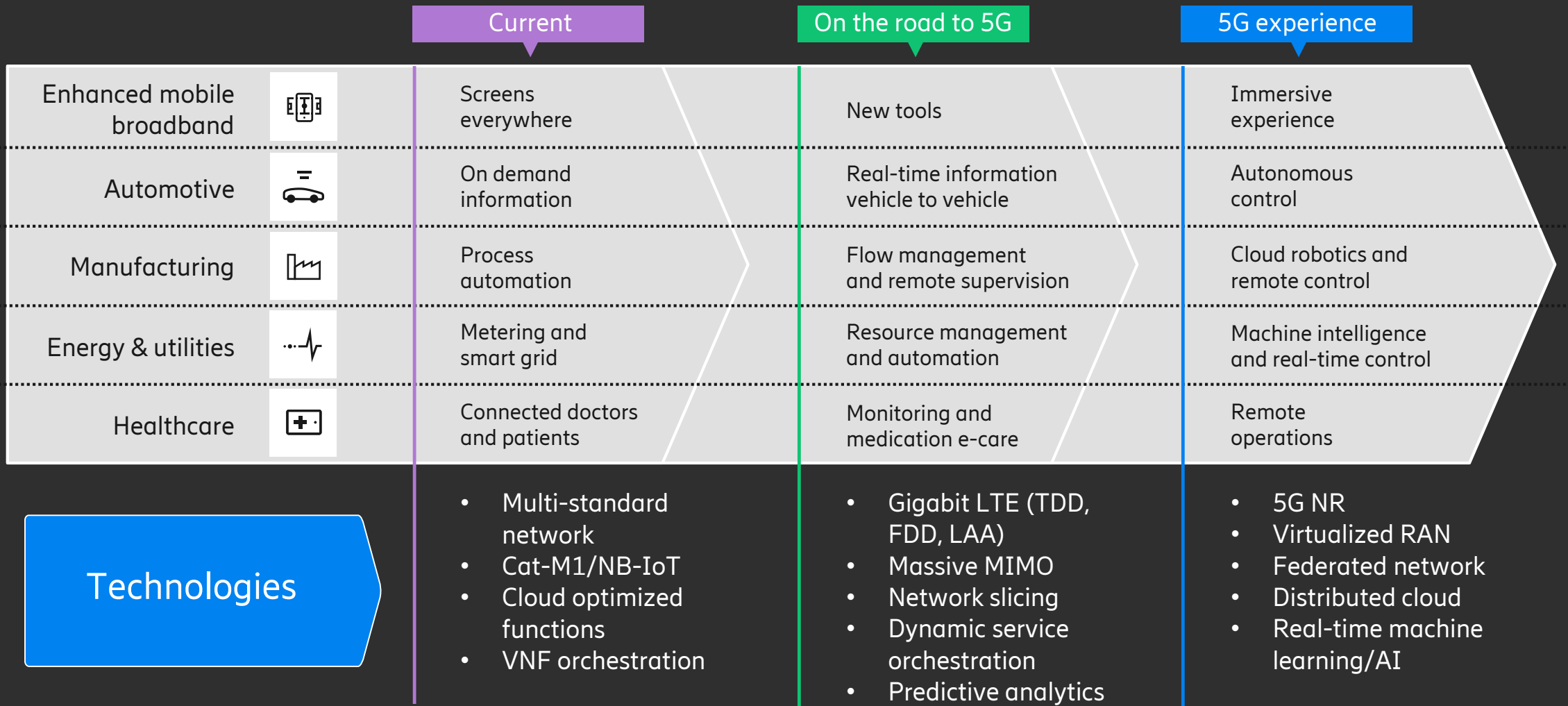
Enhanced Mobile Broadband



Fixed Wireless Access



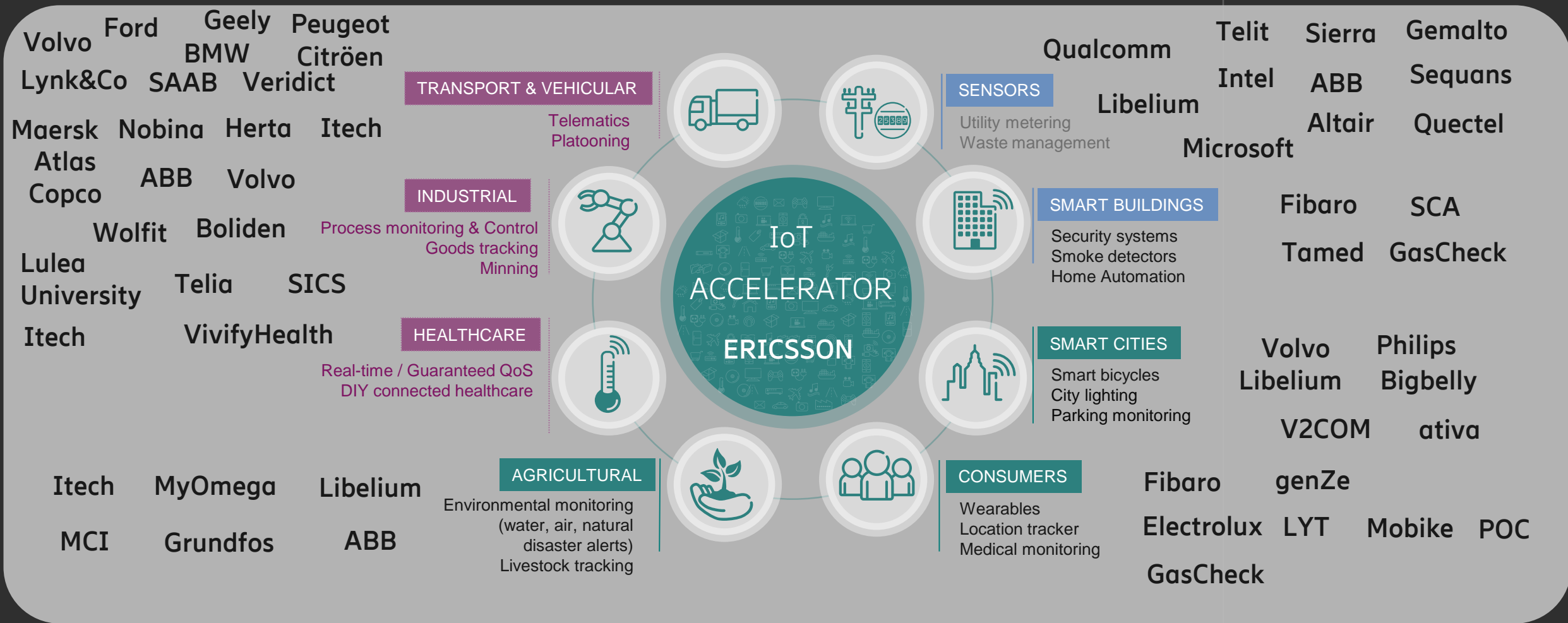
Use case evolution with supporting technologies



Ericsson 5G industry collaborations examples



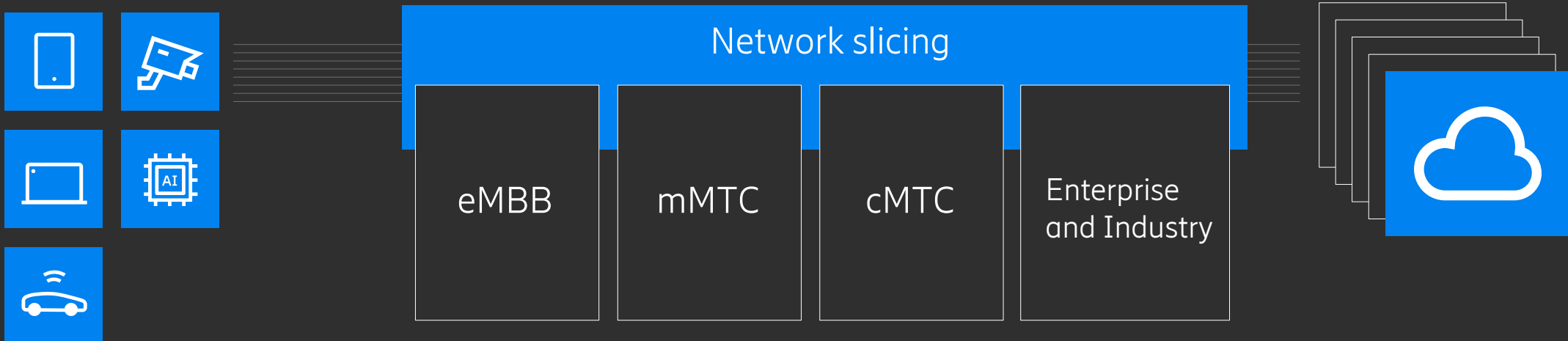
Ericsson IoT ecosystem evolving every week



5G – One network for multiple industries



10-100x End-user data rates	1000x Mobile data volumes	50x Lower latency	100x More devices
Low cost Device cost reduction	5x NW energy efficiency	3x Spectral efficiency	



Technologies that drive industry changes



Radio evolution

- mm Wave and massive antenna technologies
- Multi-purpose, multi-characteristic radio
- Flexible spectrum assignment and utilization

Programmable networks

- Software defined networking
- Network slicing
- Network abstraction



Cloud technologies

- Distributed cloud and edge computing
- Micro services running on virtual containers



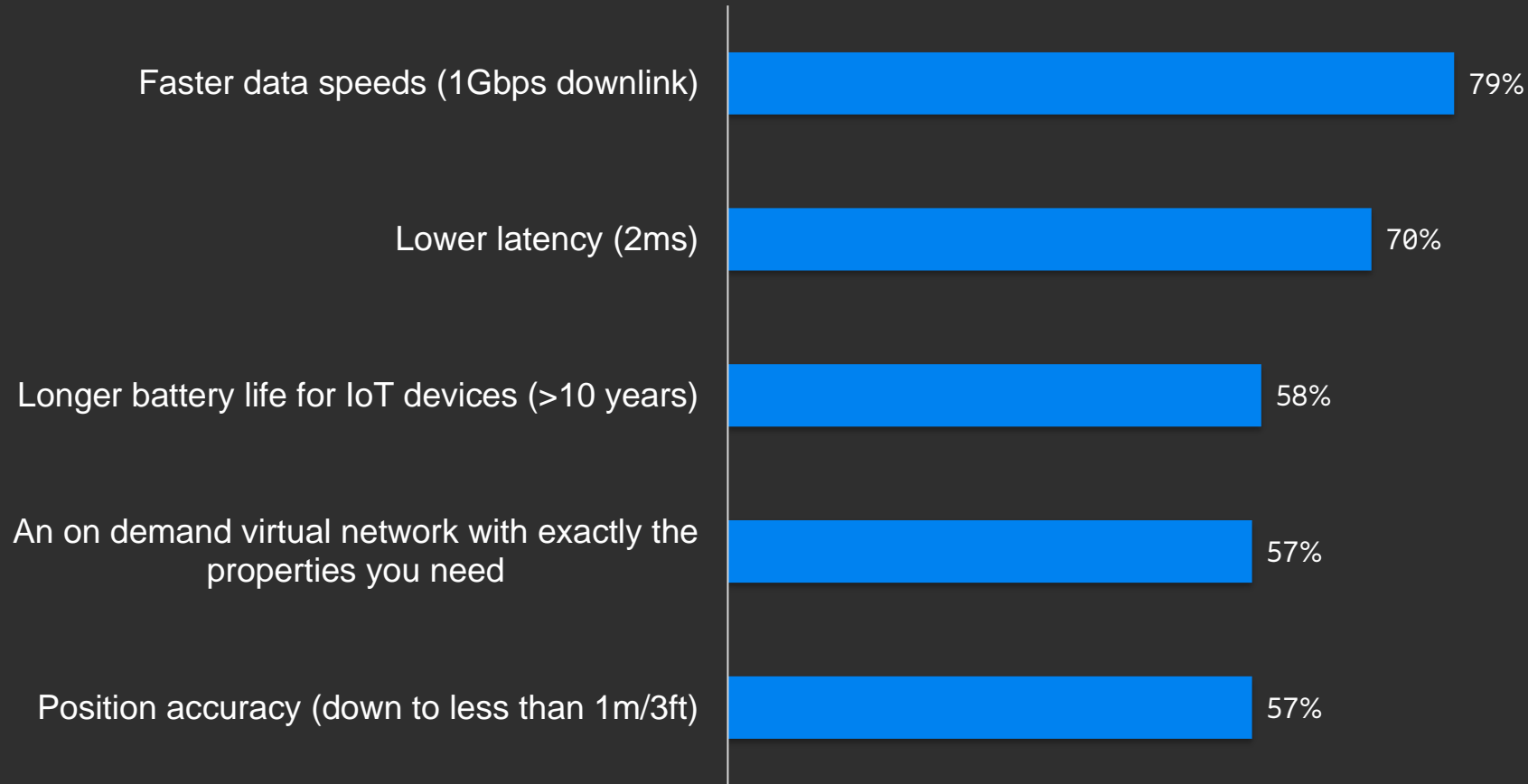
Automation

- Model driven
- Automated life cycle management
- Autonomous systems

Machine intelligence

- Cognitive technologies and deep learning
- Responsible machine intelligence
- Capsule networks

5 valuable 5G attributes businesses are prepared to pay a premium for



5

solid 5G attributes to be exploited with business model innovations

Use cases in production by 2021, by industry sector



On average, over
70%
of companies aim to
have use cases in
production by 2021



Fastest scaling
technology ever



The 4th industrial
revolution is coming



