

An aerial night view of a city featuring a prominent suspension bridge and a complex highway interchange. The scene is illuminated by city lights and the bridge's own lighting, set against a dark sky with a hint of sunset or sunrise. The text is overlaid on the left side of the image.

# 5G TRANSFORMING INDUSTRIES

## THE 5GEM PROJECT

Ulrika Engström  
Ericsson Research

# MOBILE GENERATIONS



Foundation of  
mobile telephony



~1980

Mobile telephony  
for everyone



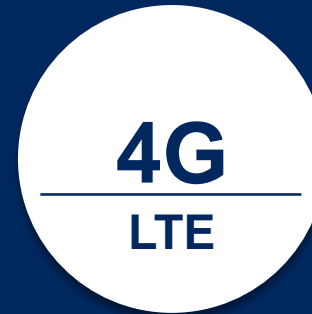
~1990

Foundation of  
mobile broadband



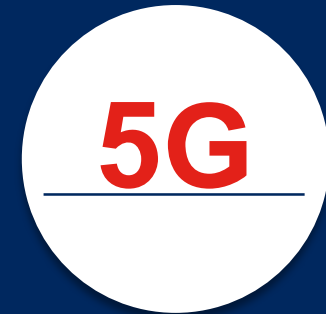
~2000

Further enhanced  
mobile broadband



~2010

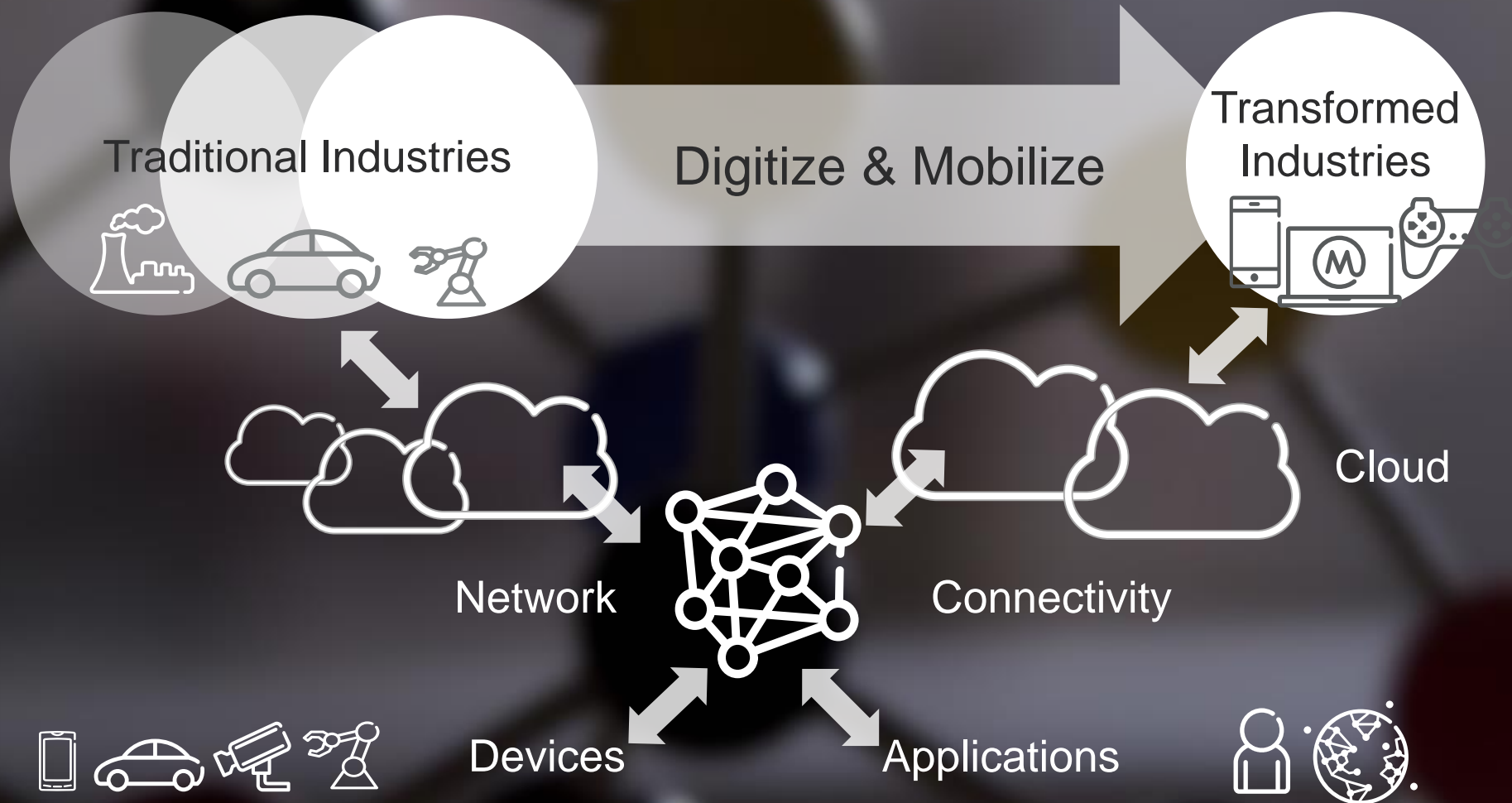
Networked  
Society



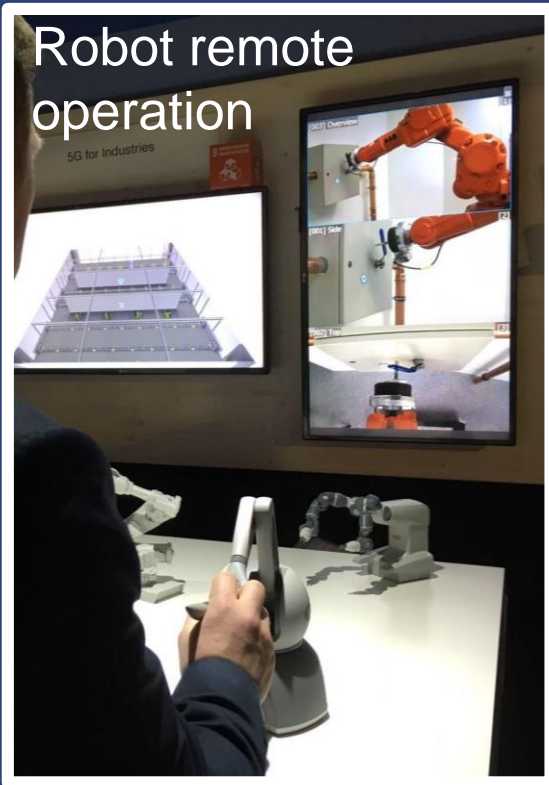
~2020

Unlimited access to information and sharing of data  
anywhere and anytime for anyone and anything

# TRANSFORMATION



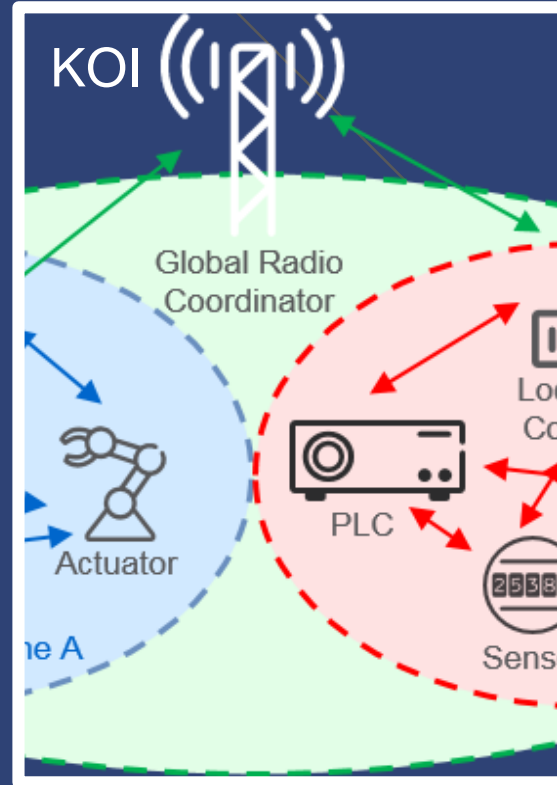
# 5G FOR INDUSTRIES



ABB, Ericsson



Boliden, ABB, Telia, Volvo CE, Ericsson



WiseSense, Fraunhofer, Weiss, Siemens, Ericsson, etc.



Scania, KTH, Ericsson

# 5GEM-5G ENABLED MANUFACTURING

## Cross-fertilization of expertise and technologies



**SKF**

**VINNOVA**

**ERICSSON**



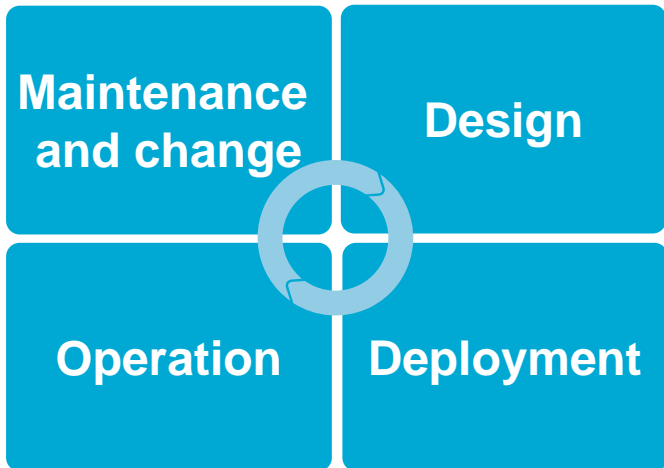
Manufacturing expertise

Funding

ICT expertise



### 5GEM Opportunities



**CHALMERS**

Scientific expertise



# 5GEM

What's in it for SKF



Efficiency



Flexibility



Traceability



Sustainability



CHALMERS

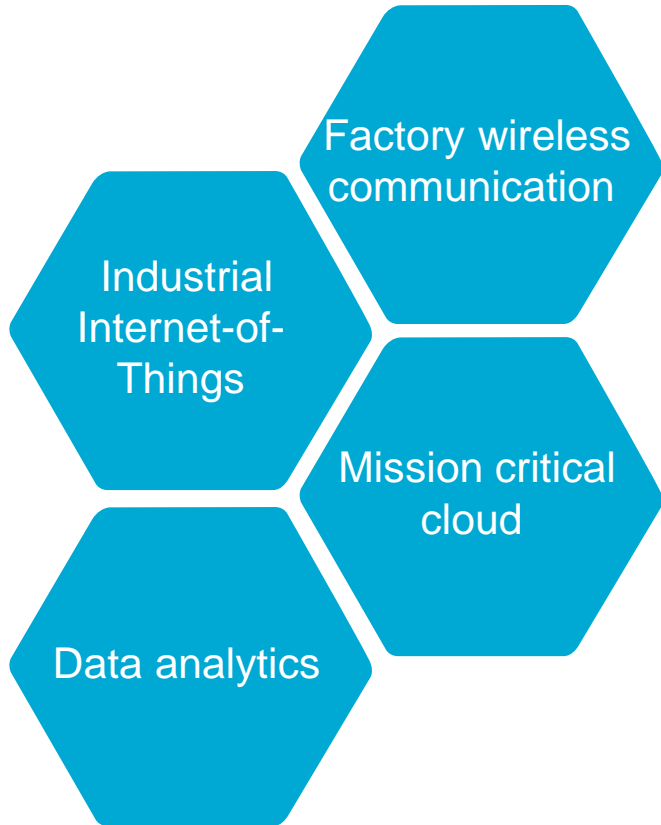


ERICSSON



# 5GEM

## What's in it for Ericsson



### 5GEM output

- › Requirements on 5G technology in manufacturing
- › Understanding of ICT related opportunities and solutions for industries



# INDUSTRY IN TRANSFORMATION



5G is transforming industries



Secure, wireless connectivity is key

Simplicity of one network



Win-win for SKF, Ericsson, Chalmers and Sweden





**ERICSSON**