Opening doors to innovation and a sustainable future with Open RAN

Yusuke Kiga
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Critical Communication

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Communications Infrastructure

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NEC Corporation Profile

Aviation

Hospitality

Healthcare

Financial

Satellite

Energy

Retail

Telecom

Broadcasting

Logistics

Transportation

Submarine
cable system

Manufacturing

Government

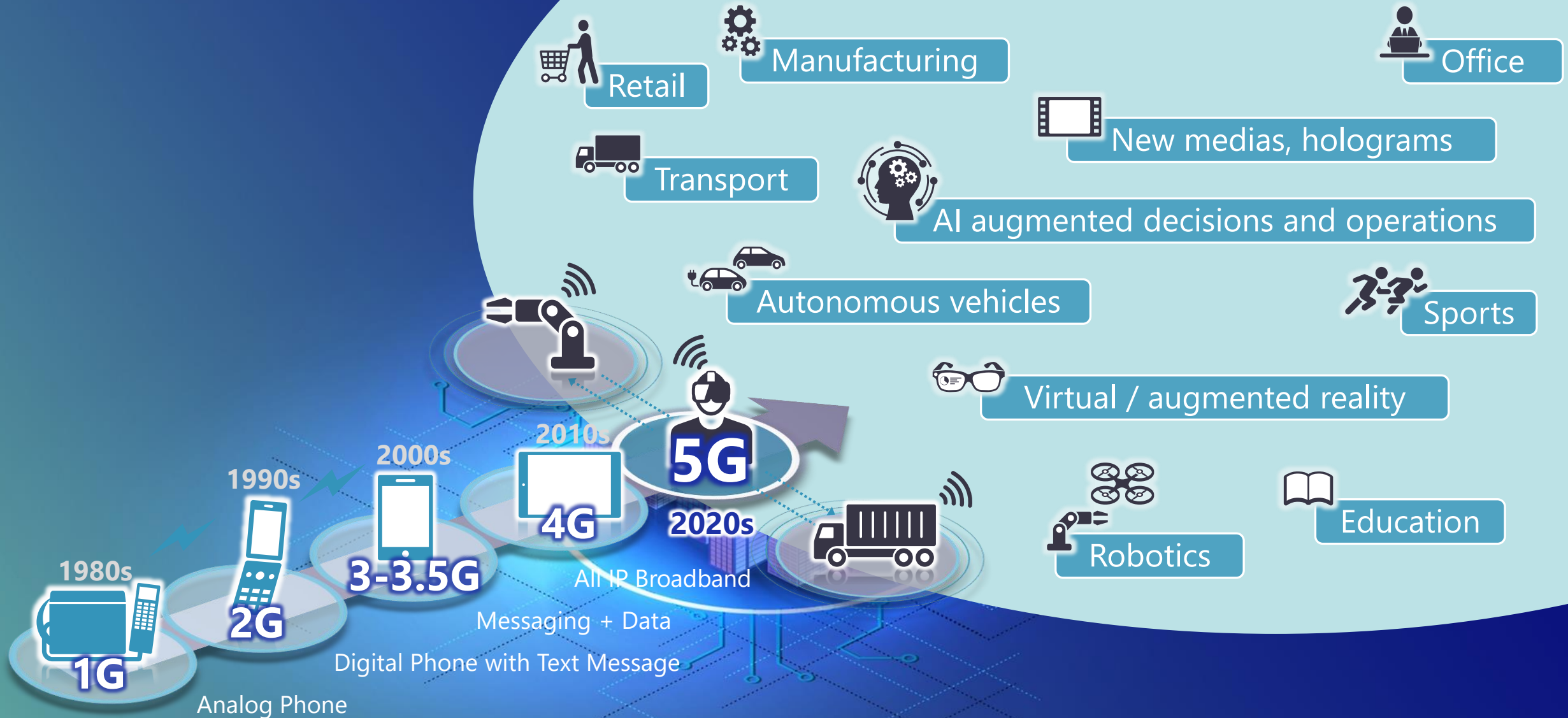Firefighting

Education

- ● Founded in 1899
- ● 27B$ revenue
- ● 1.1B$ annual R&D spend
- ● 117k employees
- ● 47,000 patents

Providing extensive value to customers in a range of fields worldwide

5G enables new experiences in every aspect of life

RADICALLY OPEN 5G

Experience the promise of 5G with NEC Open Networks

NEC

Partnership & Collaboration

WITH
Customers
Other Vendors
Hyperscalers

And even Competitors

STANDARD CERTIFIED

O-RAN ALLIANCE TIA

TIP 3GPP

NEC OPEN RAN 5G ECOSYSTEM
RU | CU/DU | CORE | SMO | SI

NEC Open Networks

-to unleash the full potential of 5G

**Open Ecosystem
Open Solutions**

▶

**Innovation
Supply chain security
New forms of Use
Cases**

Collaboration within and beyond the industry is key

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NEC's Open RAN Achievement

🇯🇵	World's first commercial 5G Open RAN with NTT Docomo
🇯🇵	World's first commercial 5G Open virtualized RAN with Rakuten mobile
🇬🇧	Selected to 5G Open RAN trial program with the NeutrORAN testbed
🇩🇪	Participating in "O-RAN Town" validating Open RAN initial deployment
🇬🇧	Vodafone selected NEC as a key player for open RAN deployment in the U.K.
🇪🇸 🇧🇷 🇬🇧 🇩🇪	NEC is selected as SIer for Open RAN pre-commercial trial in Telefonica's 4 core global market (Spain, Germany, the UK and Brazil) Activation of the first live Open RAN macro-sites in the Virgin Media O2 commercial network in the UK.
🇫🇷	NEC drives Open RAN forward with deployment of massive MIMO on Orange's 5G SA experimental network in France
🇦🇺	NEC delivered Neutral host O-RAN design for the Department of Regional NSW Active network sharing Partnership program and NEC to build the NSW Telco authority's O-RAN 5G Innovation lab

NEC
Ranked as Visionary

Highest ranked Open RAN vendor in Gartner 5G Network Infrastructure Magic Quadrant

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Use case: United Kingdom

NeutrORAN project supported by UK Government

NEC and our partners demonstrate NeutrORAN project in North Wales.

Project:
UK 5G trials supported by UK Government

Purpose:
Improving connectivity in the remote areas

Detail :
Consists of two elements Neutral Host + Open RAN

Use case: Australia

- Building initial phase of 5G innovation lab for Public Safety Mobile Broadband (PSMB) applications

- NEC provides:
  - 5G Open RAN virtualized CU/DU
  - O-RUs
  - 5G core running on AWS

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Use case: Australia Open RAN pilot workgroup for DRNSW

**NEC to participate in the Open RAN pilot workgroup
to transform Regional Mobile Coverage**

NSW Government

Mobile Coverage Project Active Sharing Partnership Program (total funding $300 million)

(Participants)

| OPTUS | TELSTRA | tpg TELECOM |

| bai communication | pivotel. |

| ONE WiFi &INFRASTRUCTURE | FIELD solutions | NEC |

(Active sharing models)

- **Open RAN**
- Multi-Operator RAN
- Multi-Operator Core Network
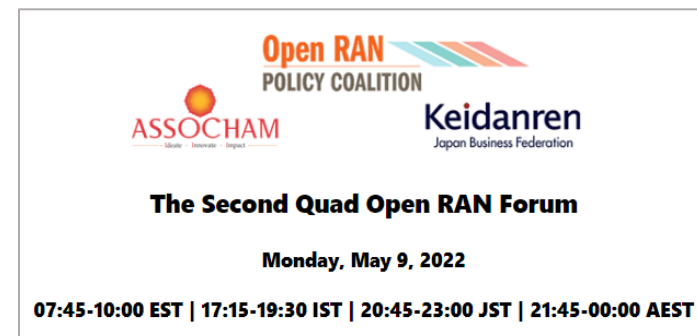- Roaming

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The QUAD Open RAN Forum

NEC's President & CEO participated in the Forum for second year in a row

The forum hosted by Open RAN Policy Coalition on 9th May, 2022

I. Speech in "Industry closing remarks" with NEC's footprint and the progress of Open RAN by CEO Takayuki Morita.

II. Discussion about existing Open RAN deployment and how Open RAN will promote innovation and competition by the QUAD Government and industry leaders.

Open RAN Policy Coalition @openRANpolicy · 5月9日

From Takayuki Morita, President and CEO of @NEC at the Quad Forum: There are 61 operators across 31 countries that are deploying #OpenRAN

Takayuki Morita (NEC)

The Second Quad Open RAN Forum

Monday, May 9, 2022

07:45-10:00 EST | 17:15-19:30 IST | 20:45-23:00 JST | 21:45-00:00 AEST

NEC 2030VISION

We are looking towards 2030.

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Thank you

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