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DOCOMO's Open RAN Achievements and Initiatives

NTT DOCOMO, INC.

Why Open RAN

DOCOMO's experience

Open RAN Ecosystem Experience(OREX)

Why Open RAN

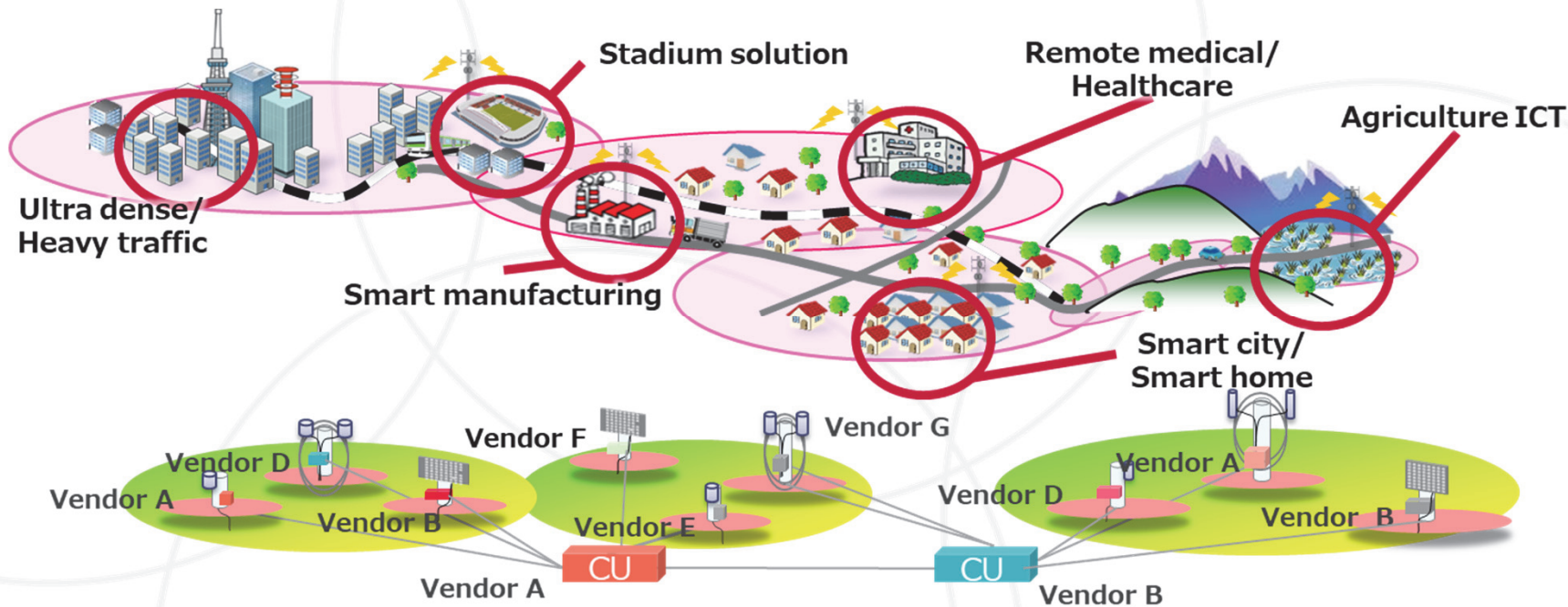
DOCOMO's experience

Open RAN Ecosystem Experience(OREX)

Why Open RAN?

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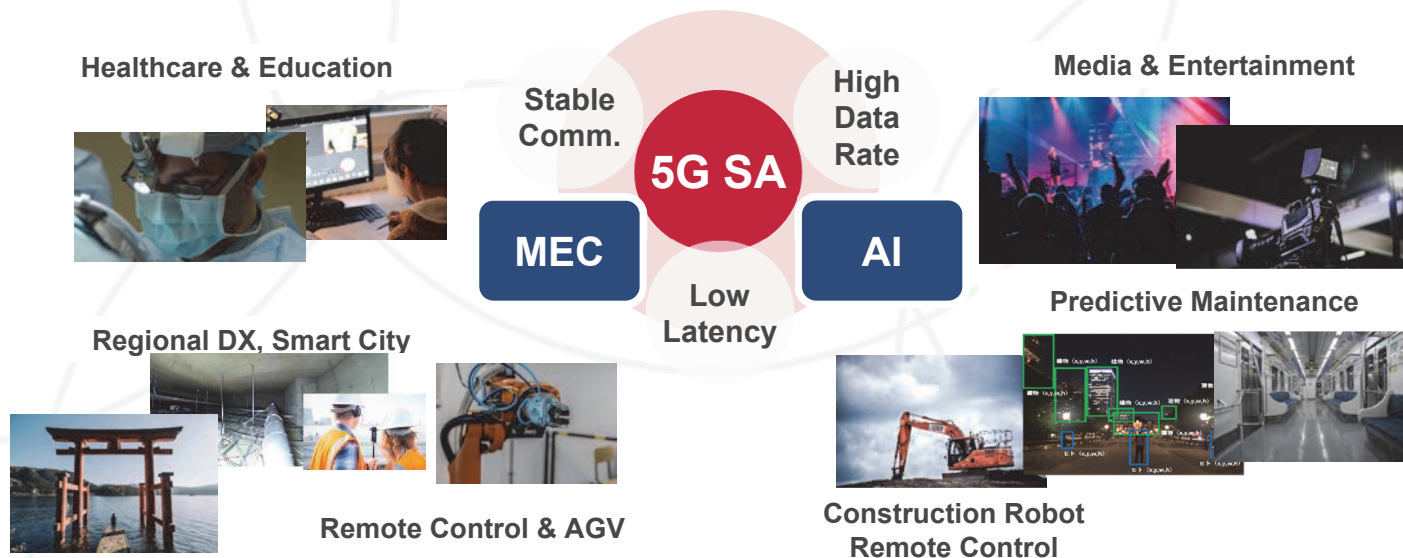
DOCOMO's 5G Open Partner Program

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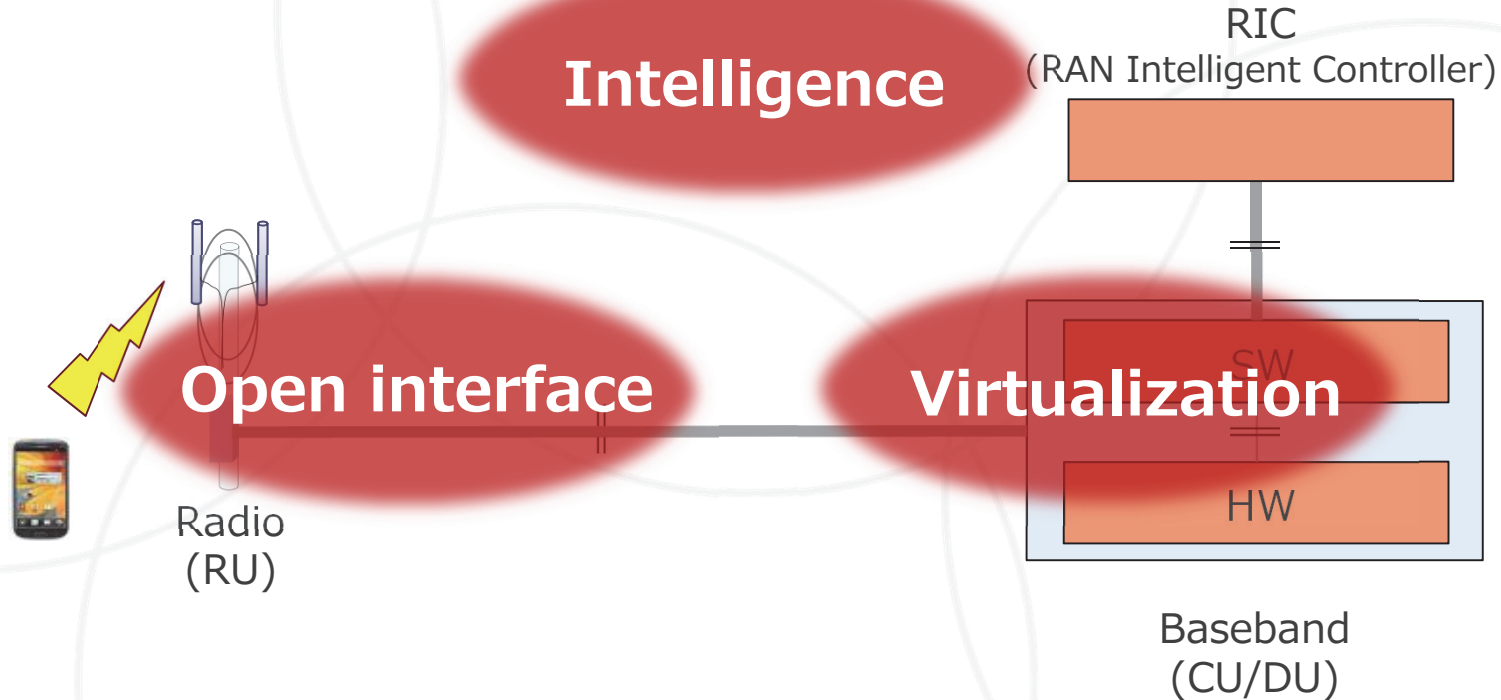


MONETIZATION ENGINE for 5G and DX

Suitable network solution is provided according to customer use cases



3 main aspects in open RAN



Benefit of Open RAN

Open RAN enables **mix-and-match** of solutions from multiple vendors, allowing operators to adopt **best-of-breed solutions** based on deployment scenarios. i.e.

- **Avoidance of vendor lock-in**
- **Mitigation of supply chain risk**
- **Reduction of TCO by controlling cost competitiveness and leveraging COTS hardware**
- **Shorter Time-to-Market by selecting the solution in the world**

Why Open RAN

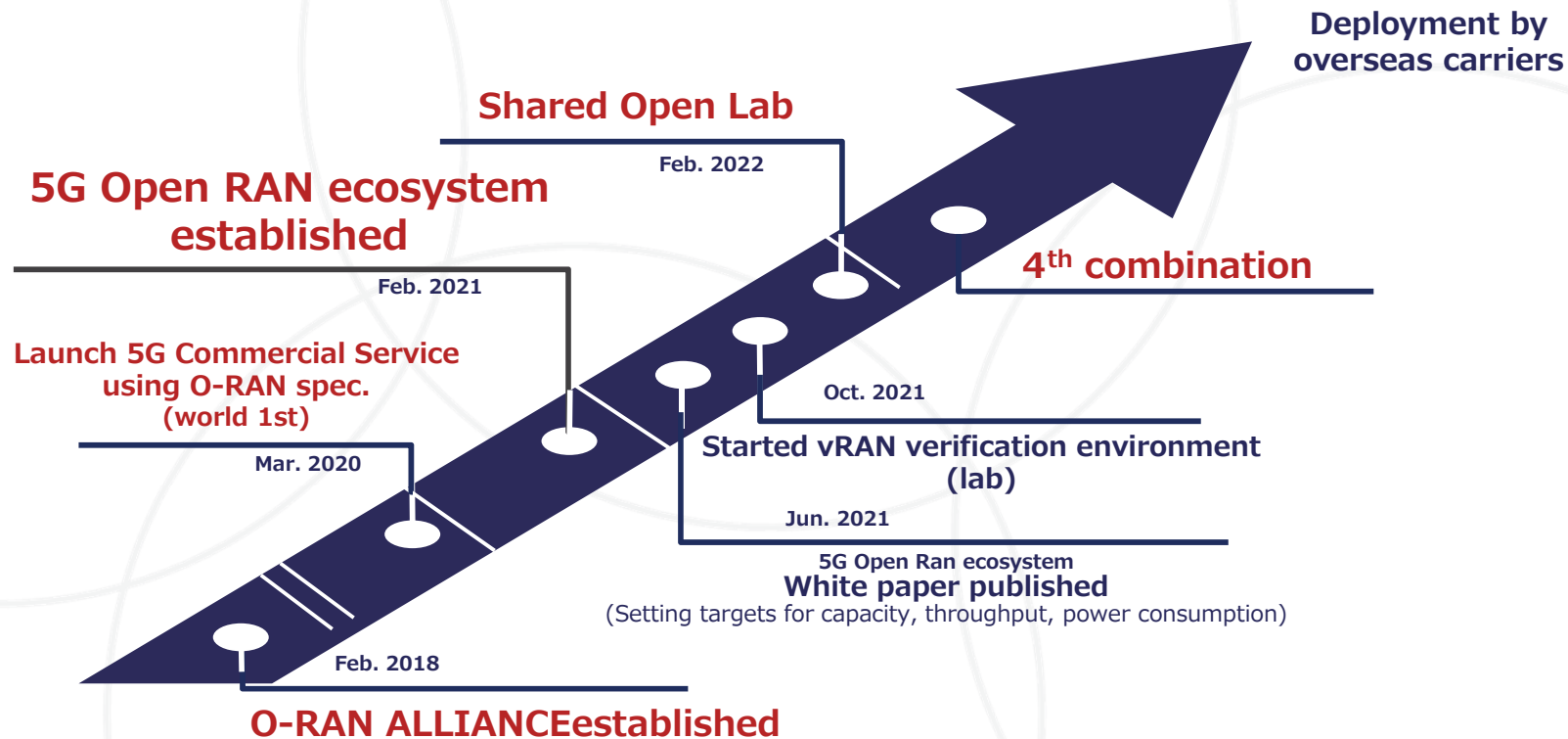
DOCOMO's experience

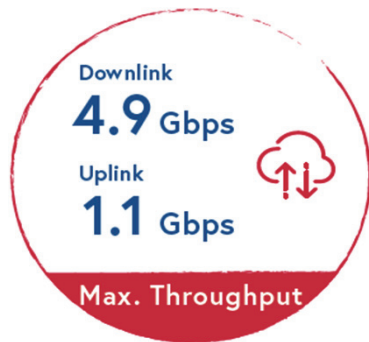
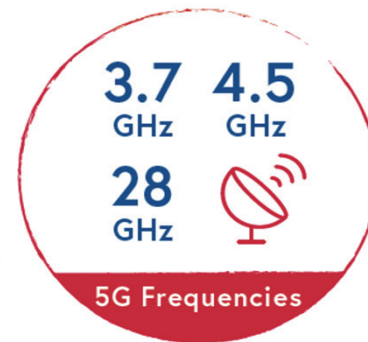
Open RAN Ecosystem Experience(OREX)

Summary of Open RAN activities

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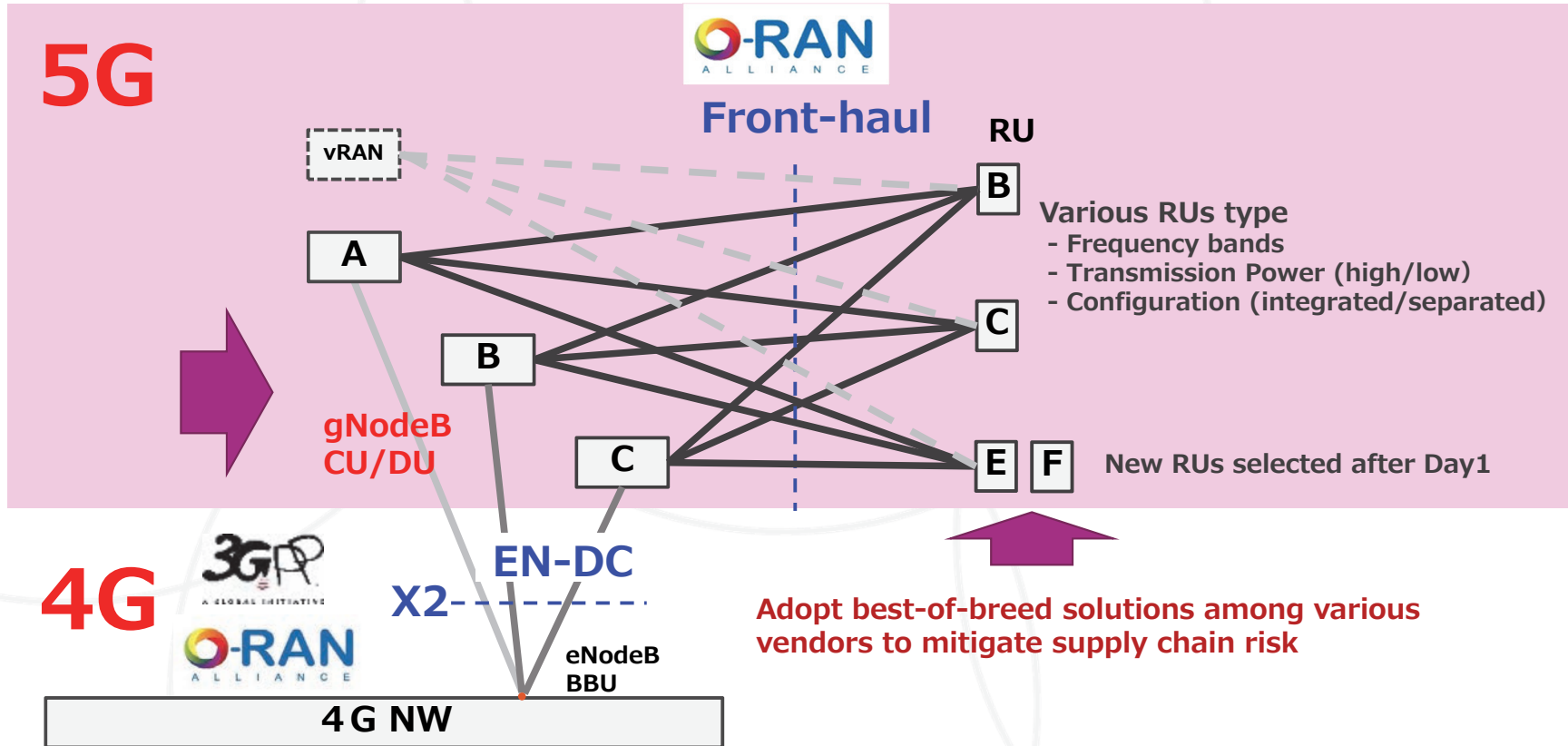




Fully Multi-vendor inter-operable **Open RAN**

Avoidance of vendor Lock-in (DOCOMO's current NW)

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Why Open RAN

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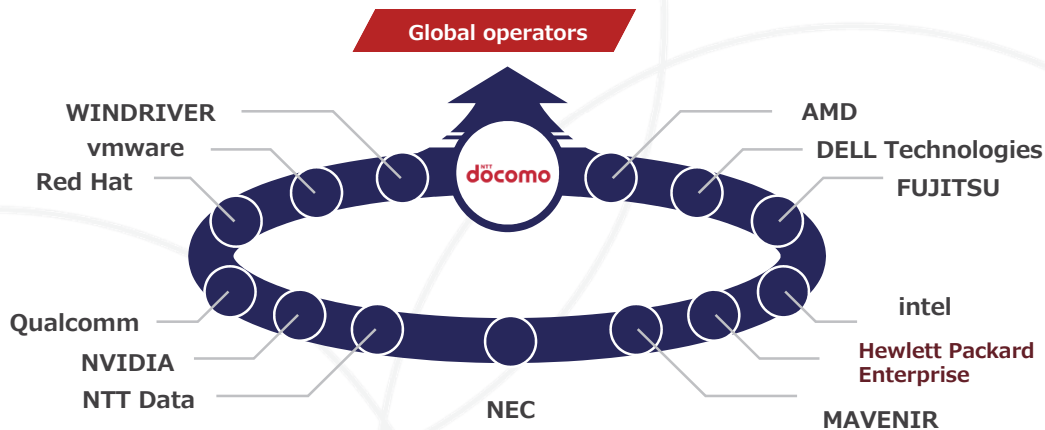
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Challenge of Open RAN

1. System integration
2. Technology is not mature/ ready for commercial deployment
3. The total cost of ownership (TCO) is unclear
4. The operational impact to the network is uncertain
5. Too much complexity

Ref: Industry Survey on Open RAN adoption
Operator Strategies for Evolving to an Open RAN
Architecture

Best-of-breed, high-quality and flexible networks



OREX provides

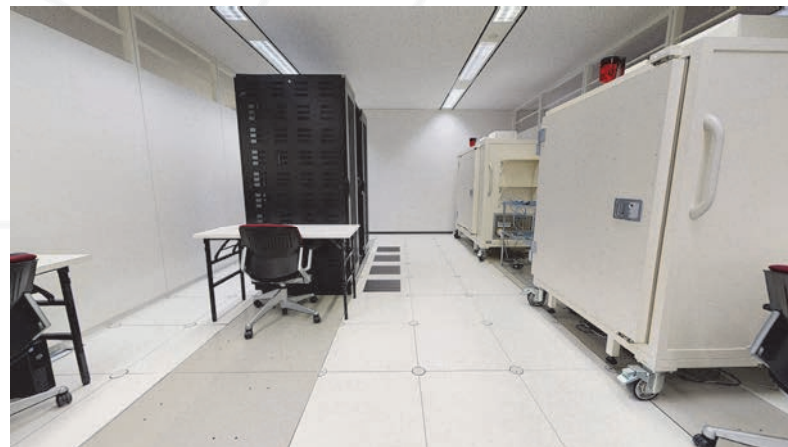
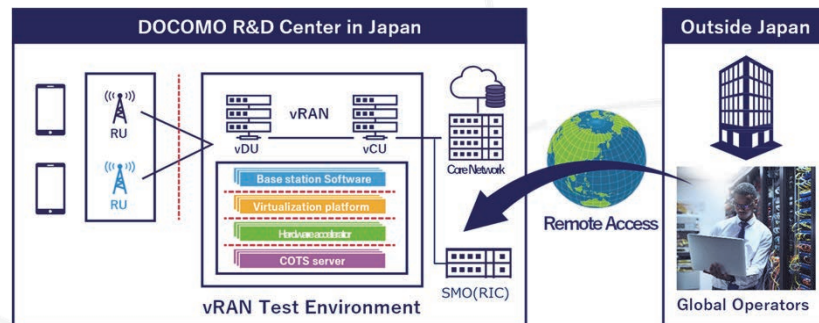
- Pre-integration solution (solve 1 and 5)
- Managed life cycle with partners (solve 1, 3 and 4)
- Shared open lab (solve 1, 2)
 - E2E performance
 - Inter-operability test

Shared Open Lab – Overview

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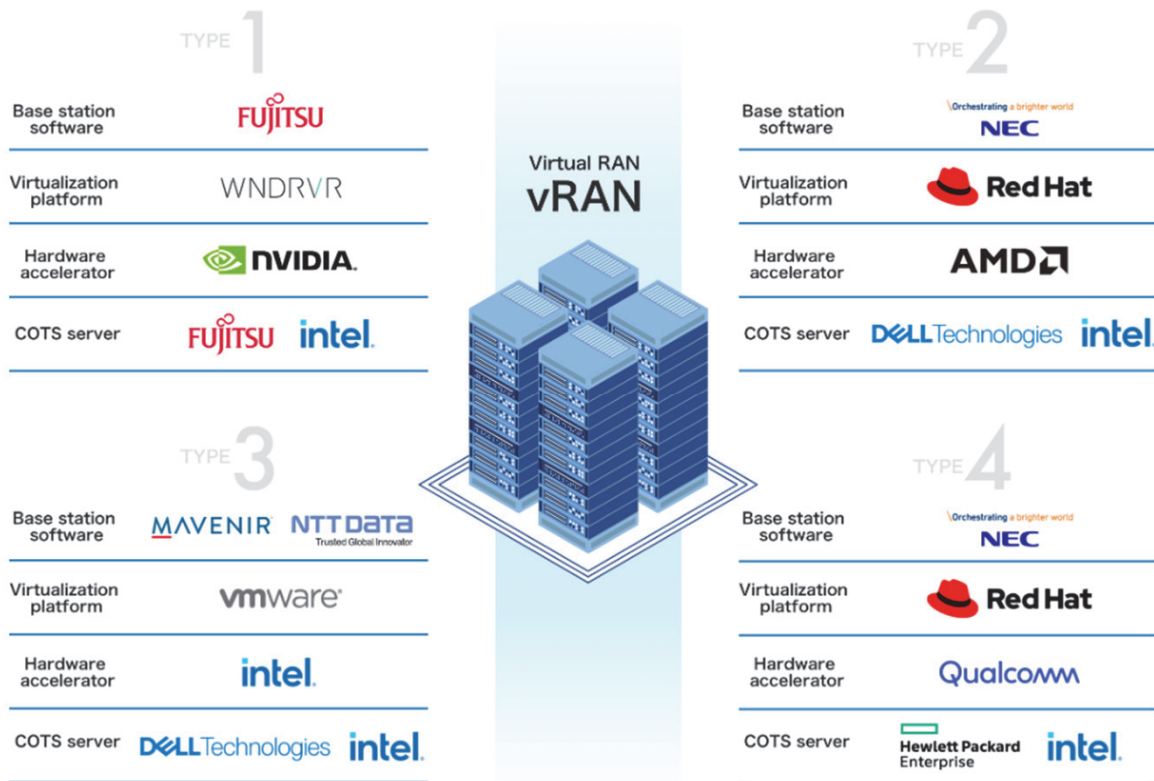
- O-RAN test environment in DOCOMO R&D center in Japan
- Global operators can access Open Lab from overseas
 - Open Lab shares resource / knowledge among operators and save time/cost for O-RAN testing
- Operators can select O-RAN components
 - vRAN software (vCU/vDU)
 - Virtualization PF
 - COTS Server
 - HW accelerator



OREX vRAN Combinations

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Why Intelligence is necessary in RAN

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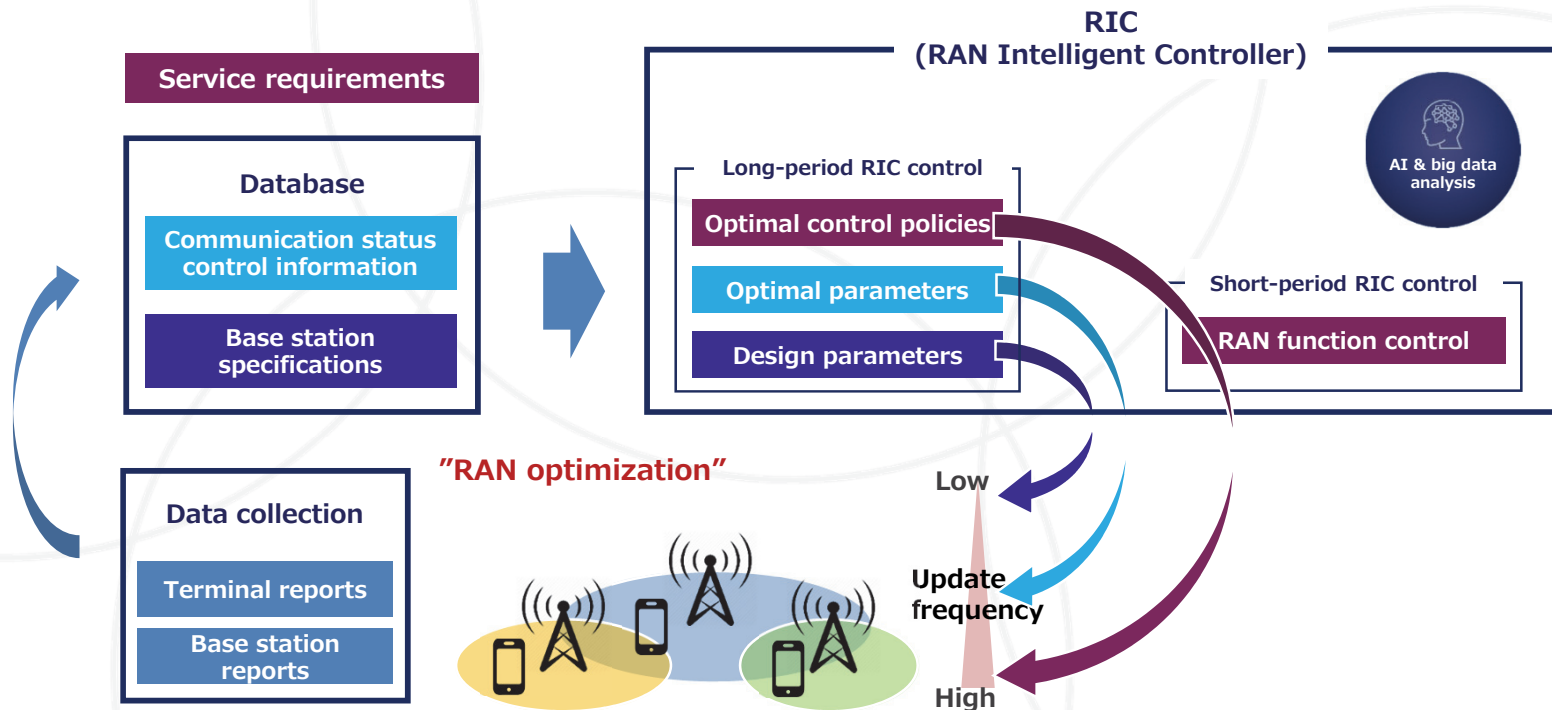


- **Deployment and operation of RAN in the 5G era is becoming complex.**
 - Support of various applications and use cases
 - Diverse combinations of operational parameters and configurations
- **“RAN Intelligent Controller (RIC)” is a key technology to address this issue.**



Intelligent RAN (RIC)

For improving communication quality and OPEX reduction





OREX

Explore and experience

BRAND-NEW OREX(Open RAN Ecosystem Experience)

DOCOMO, aiming to eliminate telecommunications gaps in a global society where everyone is always connected, launched a project to popularize Open RAN worldwide in 2021.

Joined by 13 global vendors, DOCOMO is now conducting verifications with operators worldwide in order to develop new technologies that are expected to lead to more open fronthaul, virtualized and intelligent RAN.

The initiative will advance to the next stage this year with the introduction of the OREX (Open Ran Ecosystem Experience) brand, which will provide operators worldwide with a transformed experience.

(Ref) PR with Vodafone (October 25th)

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Press Releases

October 25, 2022

Vodafone and NTT DOCOMO sign MoU to cooperate to drive greater system integration and service efficiency in Open RAN

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TOYO, JAPAN, October 25, 2022 --- Vodafone and NTT DOCOMO, INC. (DOCOMO) agreed to cooperate to bring the benefits of open radio access networks (Open RAN) to a wider operator and vendor community.

Vodafone and NTT DOCOMO sign MoU to cooperate to drive greater system integration and service efficiency in Open RAN



Why Vodafone and NTT Docomo are connecting their Open RAN labs

<https://www.youtube.com/watch?v=h2YglQNEFU>

The Open RAN evolution at NTT Docomo

<https://www.youtube.com/watch?v=3ki7BdNVDYk>

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