

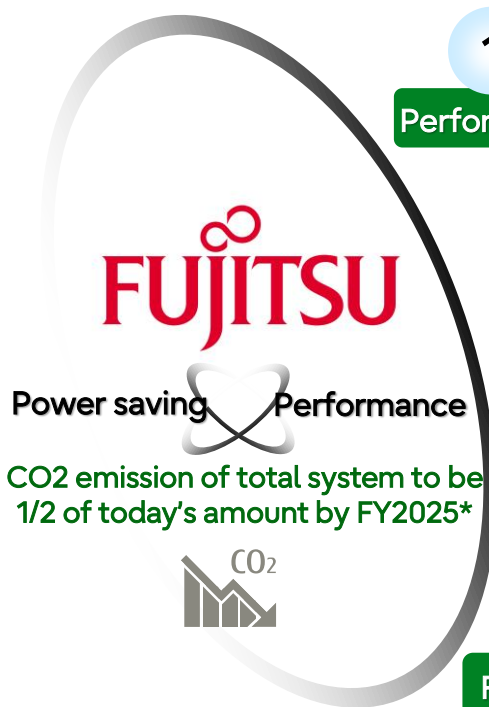
# Fujitsu Virtualized CU/DU

Fujitsu Limited



# Green technologies Initiatives to achieve carbon neutrality

Virtualized CU/DU that achieves both power saving and performance



## 1 High Performance/High Capacity

Performance

With DU Accelerator Card

Contribution to reduced installation space and power consumption

2

## Flexible dynamic resource allocation according to the number of cells

Flexibility

Utilizing Flexible FH Structure

Allocate cell resources according to traffic and operating conditions

3

## vRAN Autoscale

Easiness

By resource control per cell

4

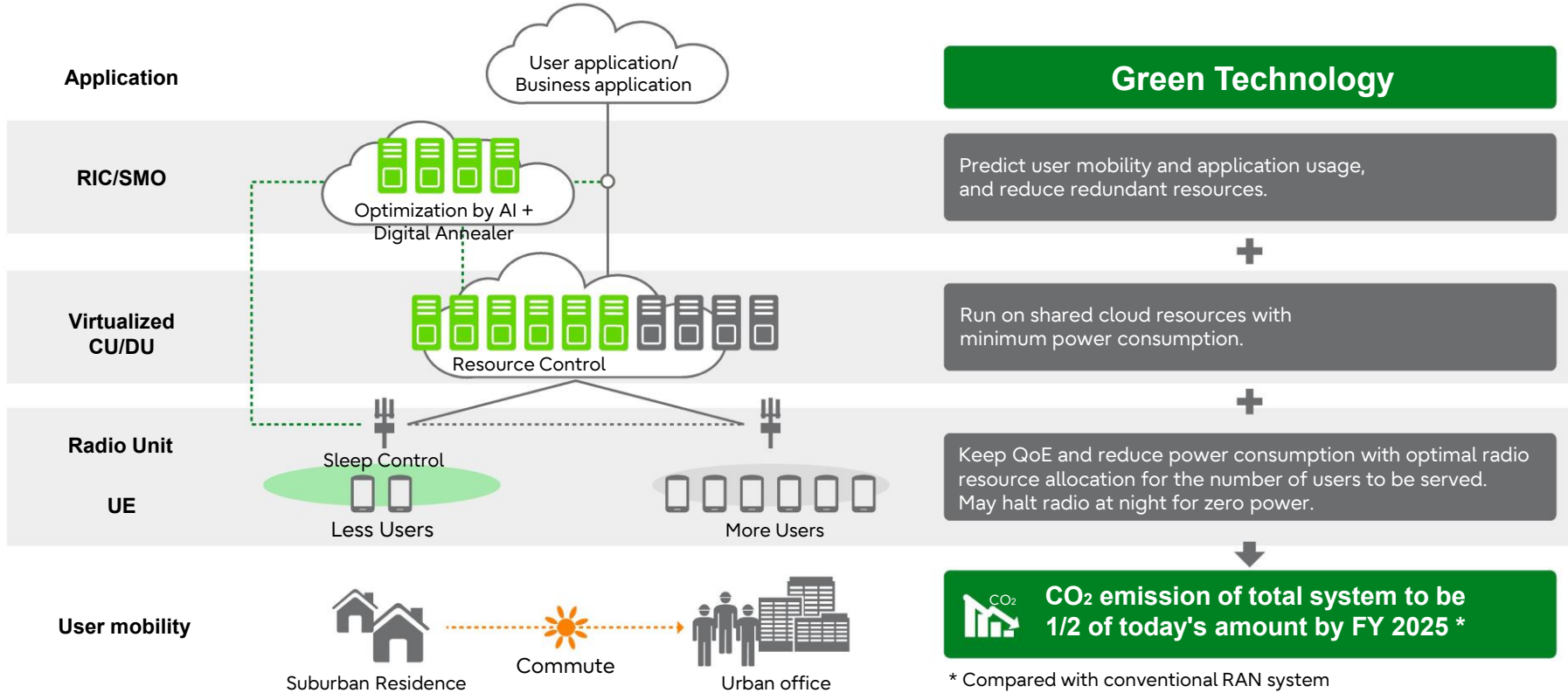
## Automatic cell re-design

Flexibility

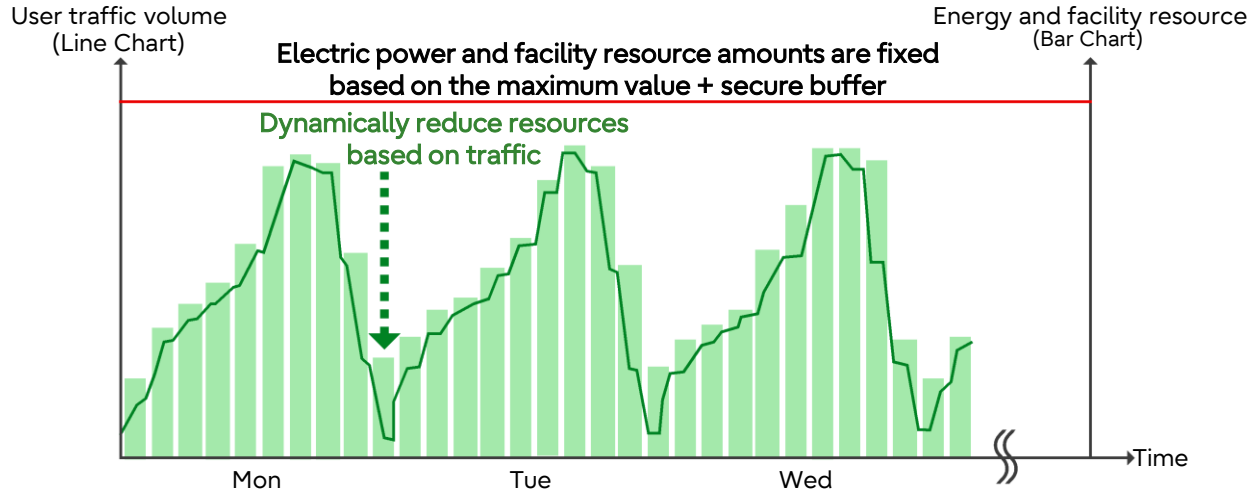
Use up vRAN resources to the fullest

This material includes a part of outcomes from a project commissioned by the New Energy and Industrial Technology Development Organization (NEDO).

# Fujitsu Green Technology



## 5G system energy and facility resource reduction



### Technologies

#### Non real-time control Auto Cell Re-Design Technology

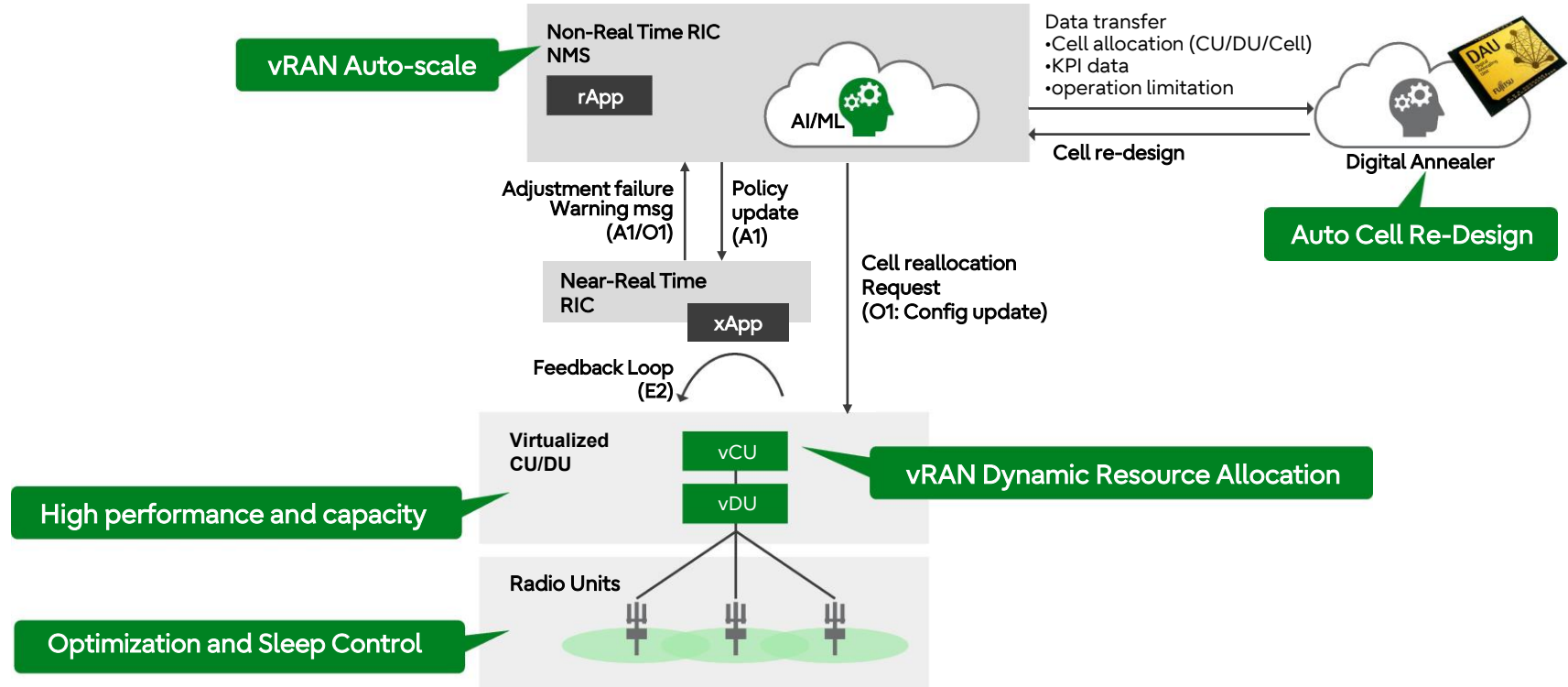
- AI/ML predictions future traffic fluctuations
- Digital Annealer Technology Enables Fast Optimal Cell Design Based on Predictions



#### Real-time control Dynamic Resource Allocation Technology

- Scheduler technology and flexible fronthaul configuration allow flexible changes in the relationship between RUs and Virtualized CU/DU.
- Provides operational resource optimization

## System architecture and technology mapping



Thank you

