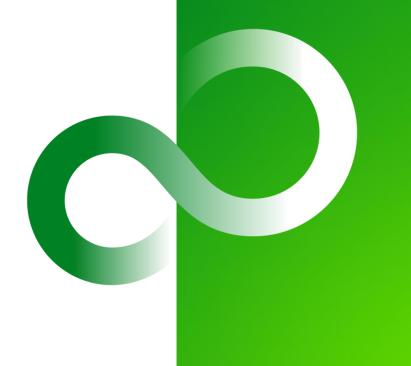


# Fujitsu 5G system green technologies

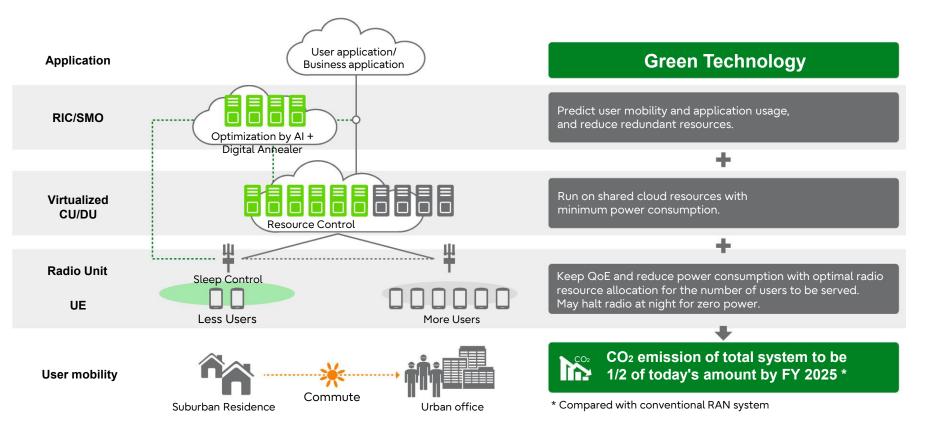
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# Fujitsu 5G system green technologies Based on prediction of user behavior and usage

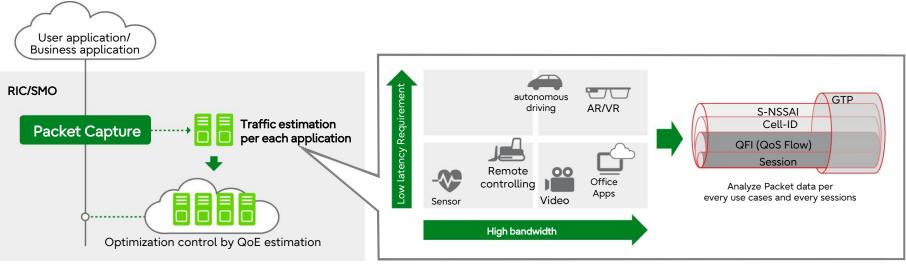




### Fujitsu 5G system green technologies RAN Control by Estimating Users QoE (Quality of Experience)

FUJITSU

Optimizing control of base station resources by analyzing packets and Users Quality of Experience (QoE) estimation



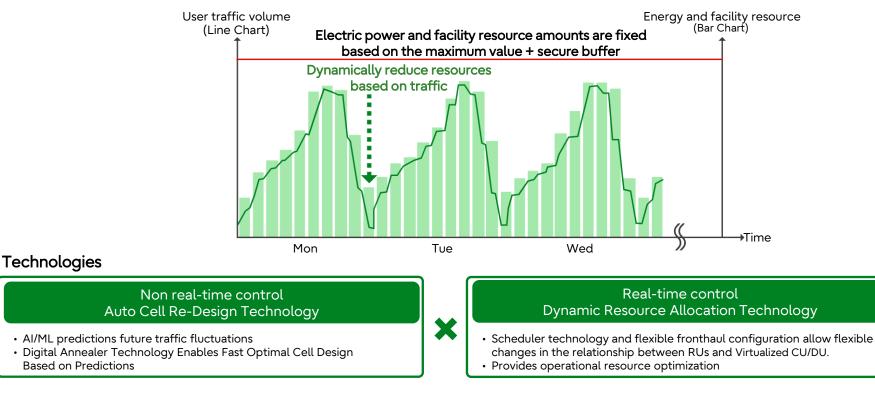
# Estimate network traffic per each application for multiple pins of network slicing

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

## Fujitsu 5G system green technologies Based on prediction of user behavior and usage

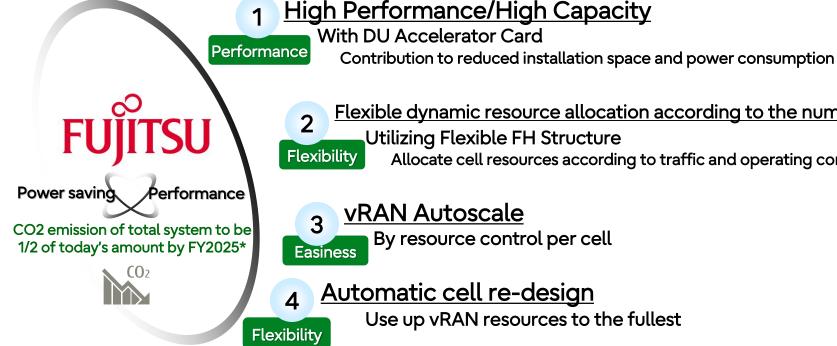


#### 5G system energy and facility resource reduction



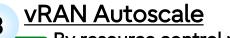
# Fujitsu virtualized CU/DU Key differentiators FUjitsu

#### virtualized CU/DU that achieves both power saving and performance



### Flexible dynamic resource allocation according to the number of cells Utilizing Flexible FH Structure

Allocate cell resources according to traffic and operating conditions



By resource control per cell

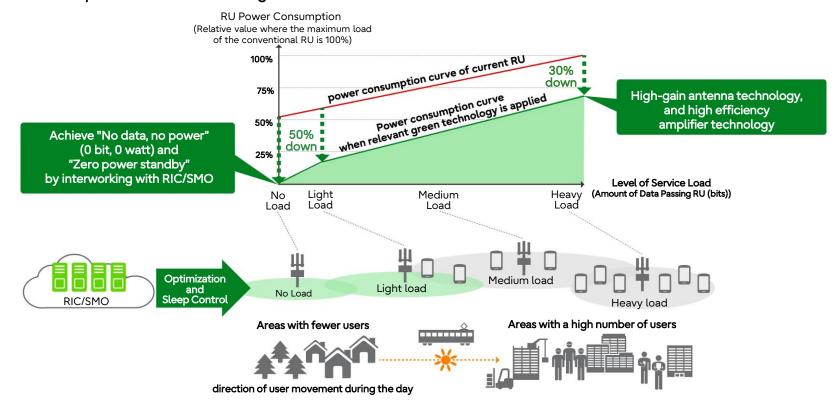
Automatic cell re-design

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 5G system green technologies Based on prediction of user behavior and usage

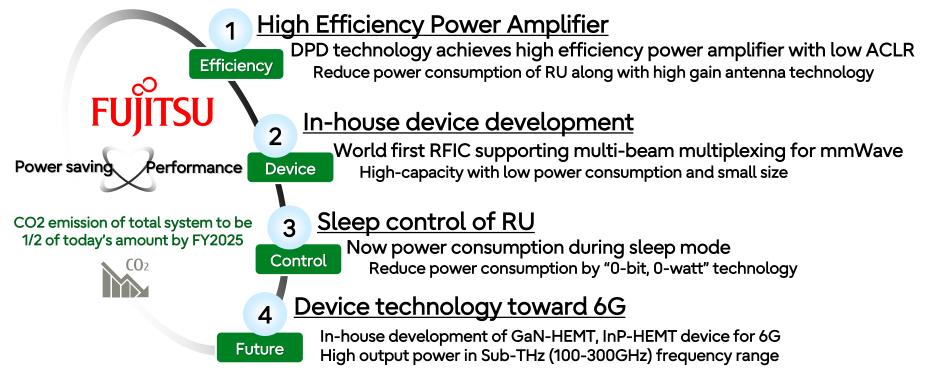
#### RU Power Consumption Reduction technologies with RIC/SMO



# Fujitsu Radio Technology Key differentiators

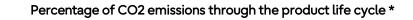


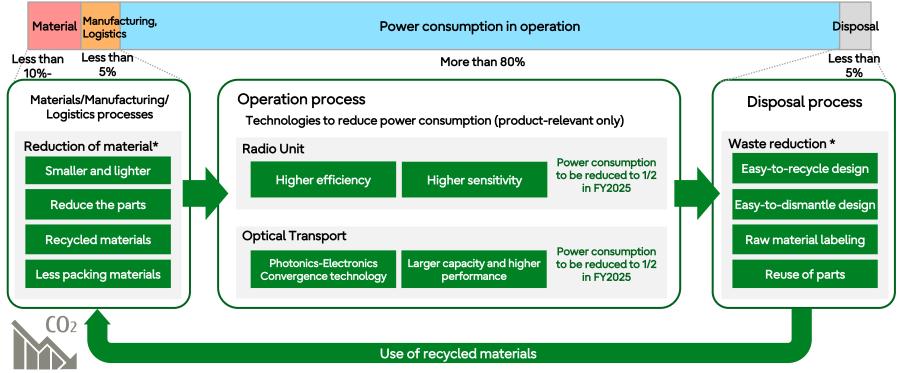
High efficiency power amplifier and in-house device technology that achieves power saving



# Reduce environmental impact throughout the product life cycle







<u>\*Fujitsu Product LCA Initiatives</u> <u>https://www.fujitsu.com/jp/about/environment/lca/index.html</u>



# Thank you

