









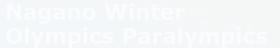
1964

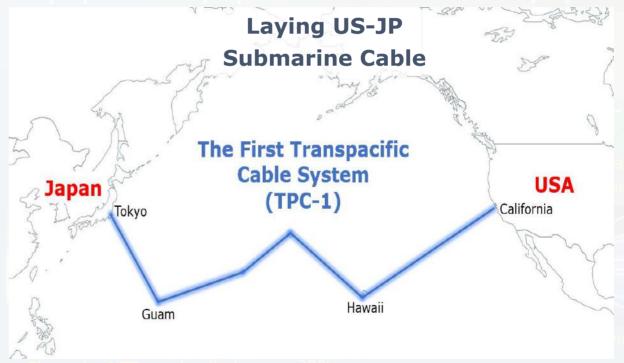


Tokyo Olympics

Start of Bullet Train











1972









Apollo No.17 lands on the Moon



Over 20 million **Telephone Subscribers in Japan**









1998

Nagano Winter Olympics Paralympics

Dawning age of the Internet



Wristwatch **Phone by NTT**



30% Penetration rate of cell phone









History of Communication

2020

Tokyo Olympics

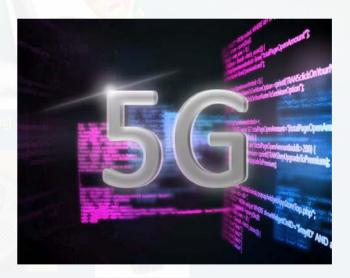
Sapporo Winter Olympics

Nagano Winter Olympics Paralympics **Tokyo Olympics Paralympics**

Universal Studio Japan Starts "Mario Zone"



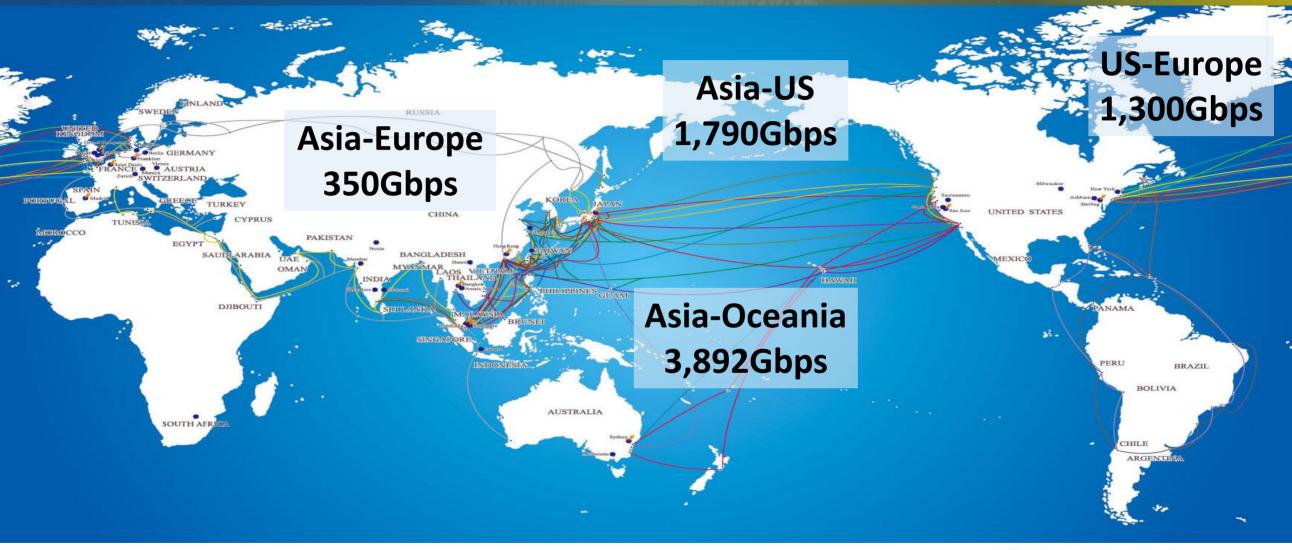
Start of 5G Services







NTT's Global IP Network









Realization of Sustainable Society

Maintenance including submarine cables





Cable-Laying Ship "Kizuna"

Unmanned Diving Robot "ROV"

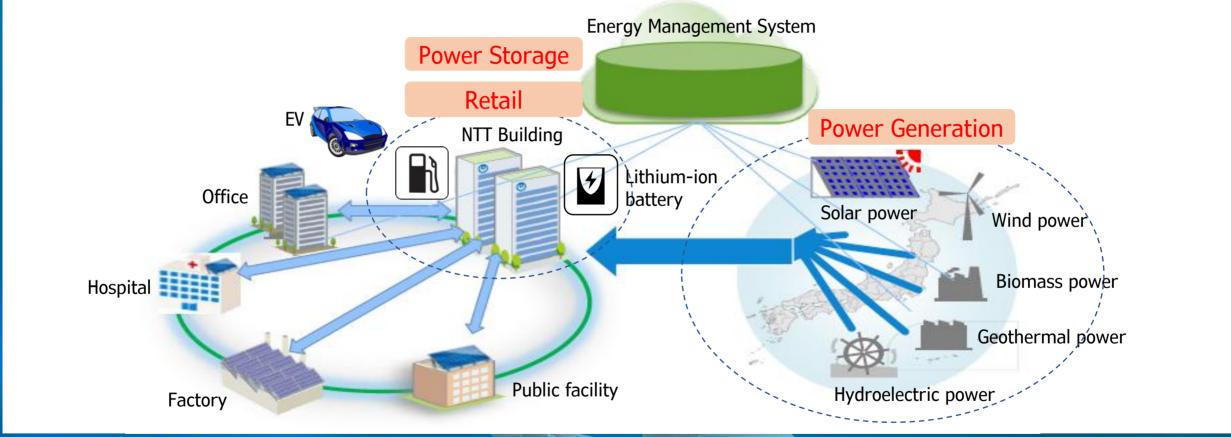






Realization of Sustainable Society

Building of electric power network

















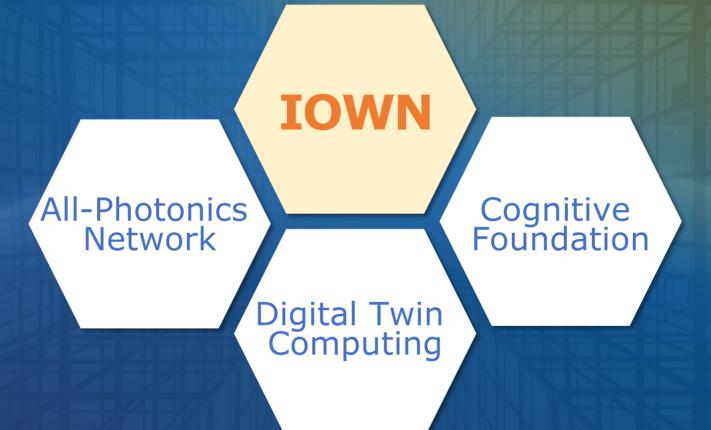




















Low Power Consumption

Power efficiency 100 times^*

*Target power efficiency for the photonics part

Large Capacity

Transmission Capacity 125 times*

*Target communication capacity per fiber

Low Latency End-end latency 1/200*

*Target delay for uncompressed video traffic within the same prefecture

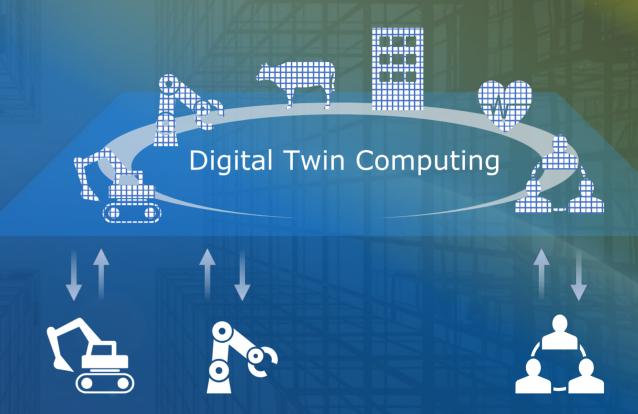








Digital Twin Computing

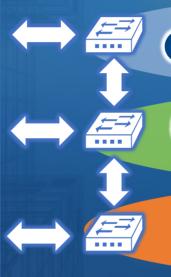


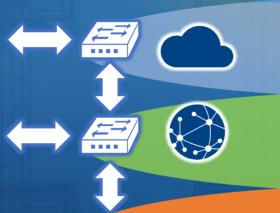


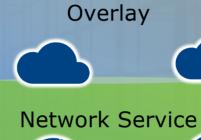




Cognitive Foundation Multi Orchestrator





















Digital Twin Computing











Ultra Reality Viewing by IOWN

Before

After





Borderless Between Real and Virtual



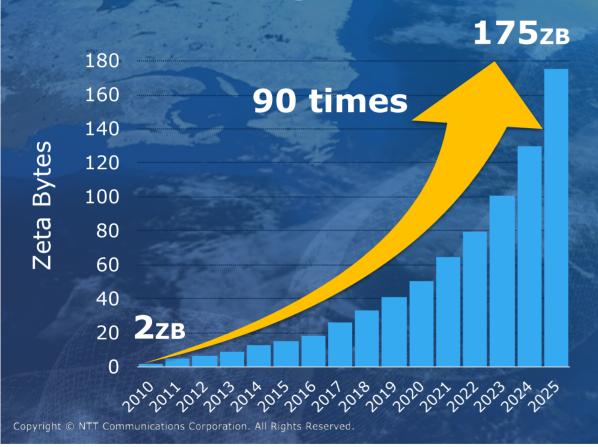


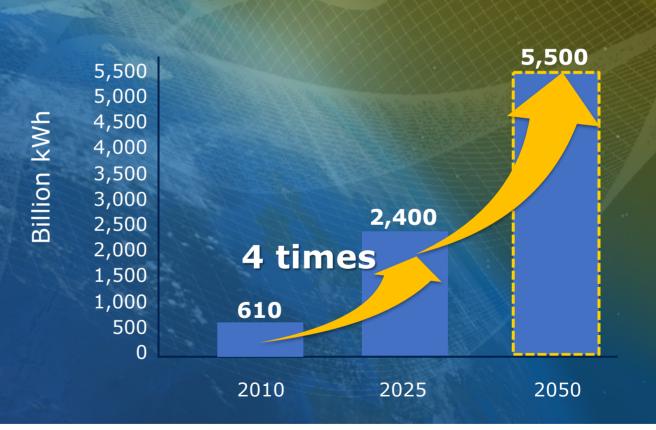


Optimizing Energy Distribution by IOWN

Increasing data volume

Transition of power consumption



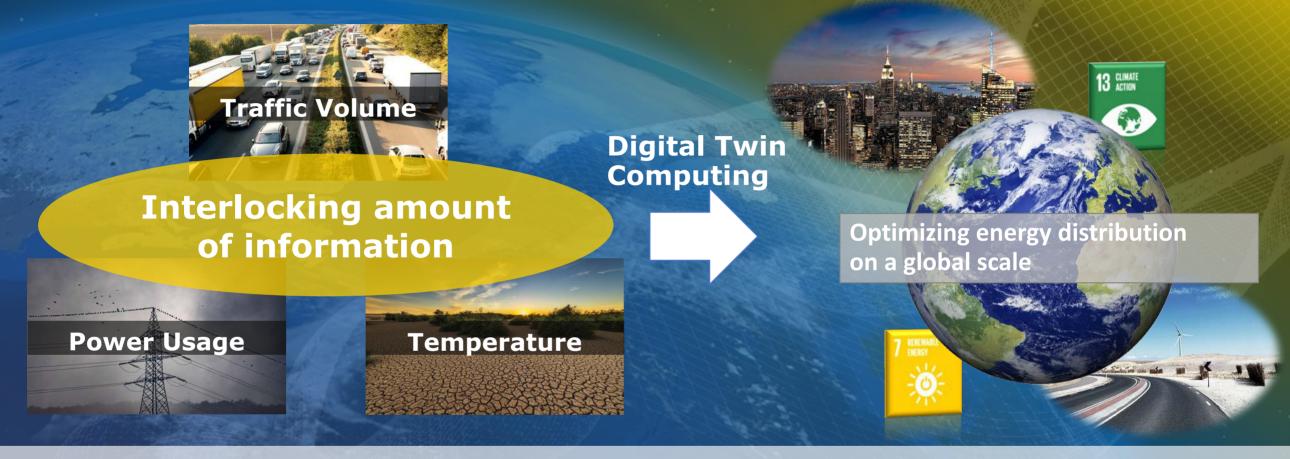








Optimizing Energy Distribution by IOWN



Solving Social Challenges on Global Scale















Organization Structure of NTT Group



