docomo Open House'24

Changing worlds with you.

C-06

Pioneering the Future of Telerobotics Together - The Power To Go Anywhere -

Social Issues that we have focused on

Japan is facing the problem of a shrinking workforce, leading to a focus on tele-operated robots to help people work more efficiently and autonomous robots that can work in place of people. In order for the wide use of such robots to flourish, they must be able to operate indoors and outdoors in a variety of fields, and achieve human-like detailed movements.

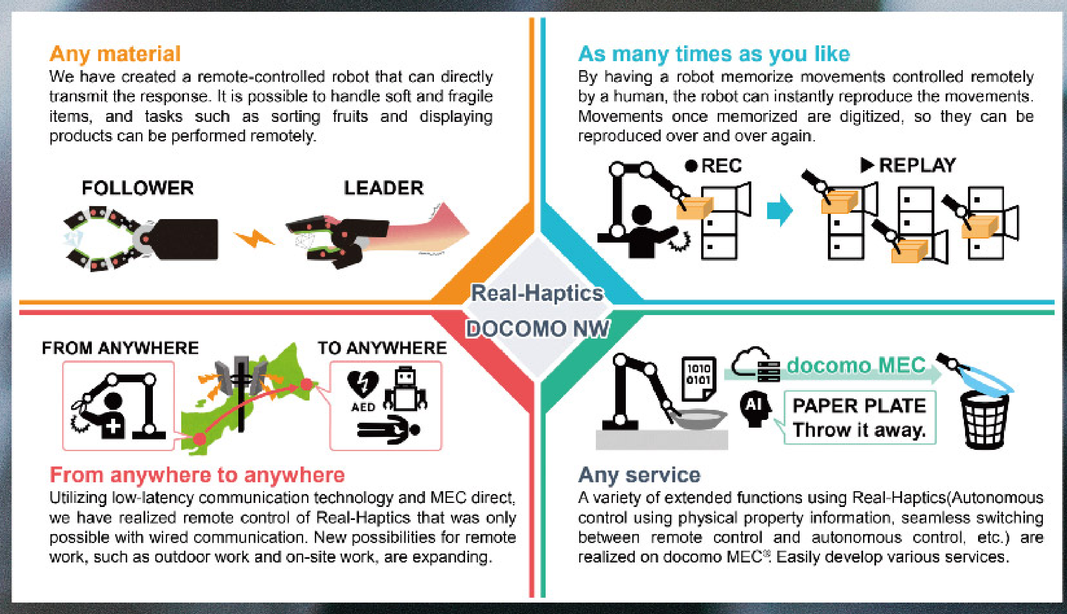
Initiatives to resolve issues

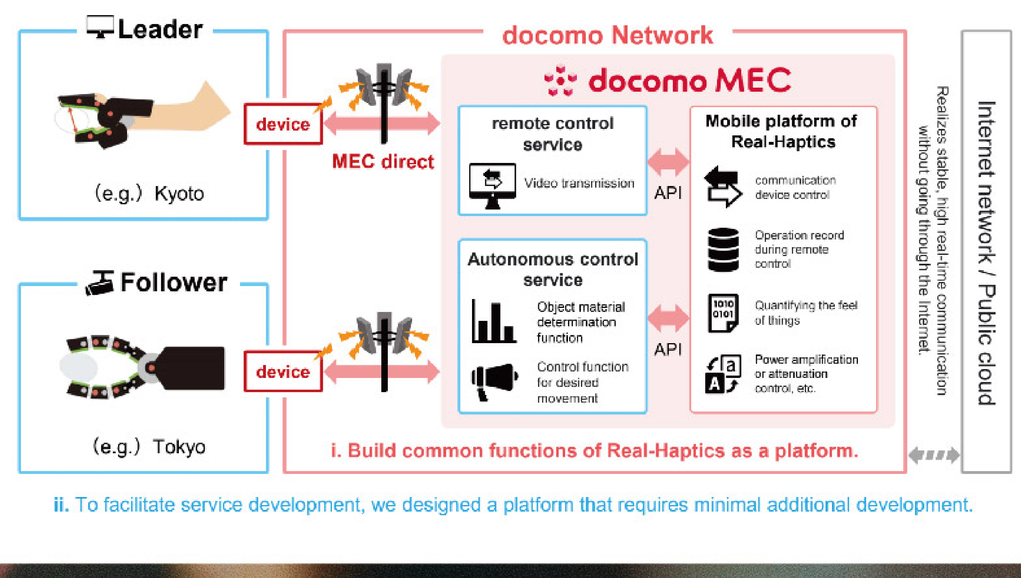
Overview

By using wireless communication and the cloud as a foundation, we have realized robot technology that can learn detailed movements remotely controlled by a human operator and instantly reproduce them. This robot can not only expand its range of activities through wireless communication, but can also be used in a wide variety of situations, such as enabling a variety of autonomous control through cloud processing.

Technology to Support Initiatives

Real Haptics®, developed by Keio University, can convert forces applied to a robot into information without the use of force sensors. By analyzing this information with MEC, the robot itself can determine the material properties of objects, enabling real-time autonomous operation.Furthermore, by taking advantage of the low latency of the MEC, the robot can operate stably in any location.





Co-creation Partners	Keio University / ACCESS CO., LTD.

SDGs

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

Remote work for outdoor work and home care work, further automation of serving tasks and cleaning tasks, and other tasks, not only can it reduce business trip costs and improve labor productivity, but it can also significantly change the way people work.

We aim to bring robots closer to people through mobile networks and gentle force.