IOWN INTEGRAL

NTT R&D FORUM 2024

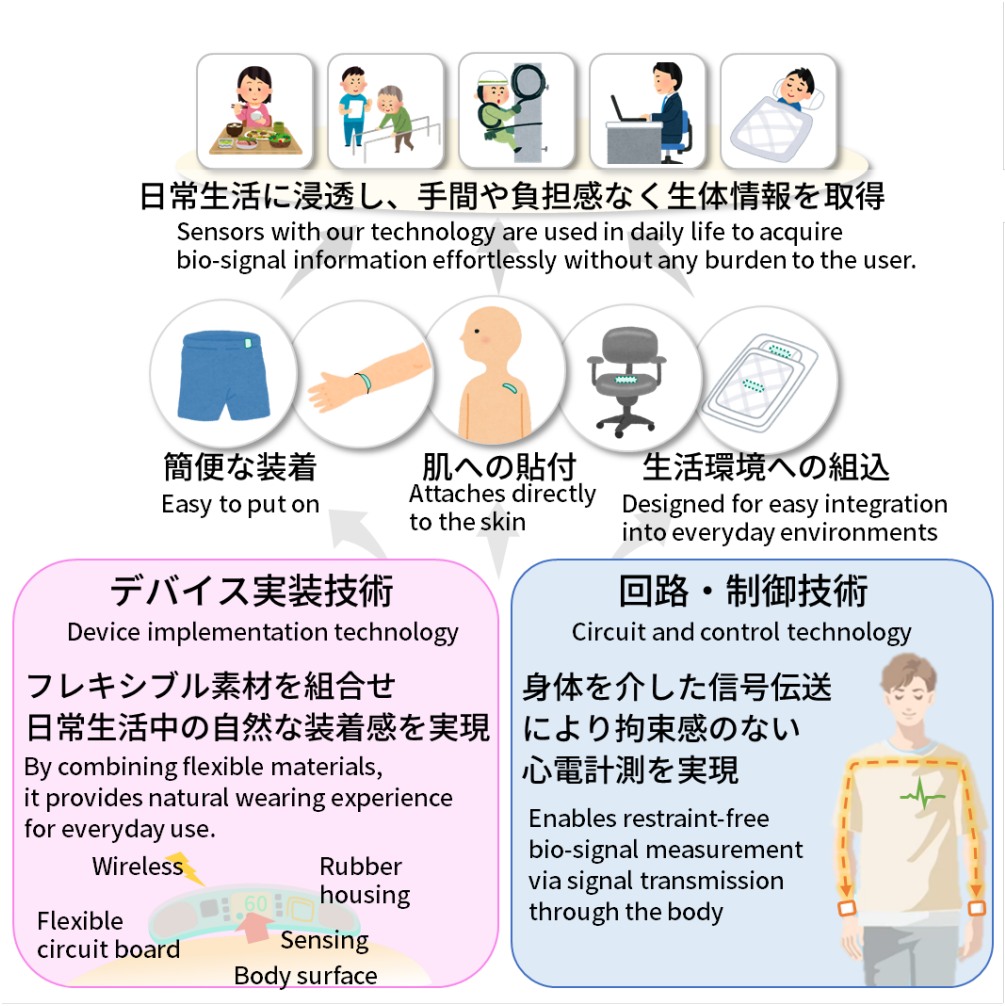
RESEARCH

γ 09-03

Natural biological sensor platform technology that gently fits the human body and clothing

This technology reduces the burden of wearing sensors, enabling integration into everyday life

#Well-being, Human Capital Management



///Technical Issue

Conventional health care devices are difficult for users to use continuously because of the burden of wearing them and operating them.

///Research Goal

Aiming to create businesses worth billions of yen per year, mainly in the rehabilitation support and health promotion business using biological information in daily life.

---Technology

- The device has a unique flexible sensor structure with partially exposed bioelectrodes, covered with a flexible rubber housing that encloses a rigid flex circuit board.
- Its unique signal transmission process through the human body eliminates the need for wiring.

---Novelty

- The device offers both flexibility that conforms to the skin and reliability to withstand the loads of daily life.
- Signal transmission through the human body eliminates the need for physical wiring and enables unrestrained continuous measurement.

---Applicable Business

Business area: Applications in medical and health care support, especially in rehabilitation
Use Cases: It can be used as a simple-to-wear and user-friendly electrocardiograph for remote cardiac rehabilitation.
(A use case where doctors remotely monitor and guide exercises based on electrocardiograms of patients, particularly those recovering from heart disease, while they exercise outside the hospital.)
Availability: We aim to launch the service around 2026.

Exhibitors=NIPPON TELEGRAPH AND TELEPHONE CORPORATION

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