NEC Innovation Day



Healthcare and Life Science

Growth Strategy in Healthcare and Life Science Area



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Growth Strategy in Healthcare and Life Science area

December 17, 2021 NEC Corporate Executive Masamitsu Kitase

Live as you



Electronic medical record



Endoscopic image analysis Al



Remote diagnosis



Medical Care



Lifestyle Support



Insoles



Rehabilitation



Body care

Al drug Development



Life Science



FonesLife

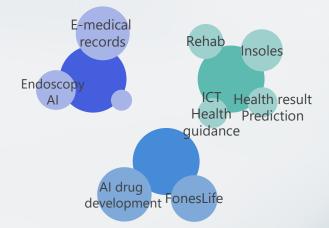
Create strong individual businesses

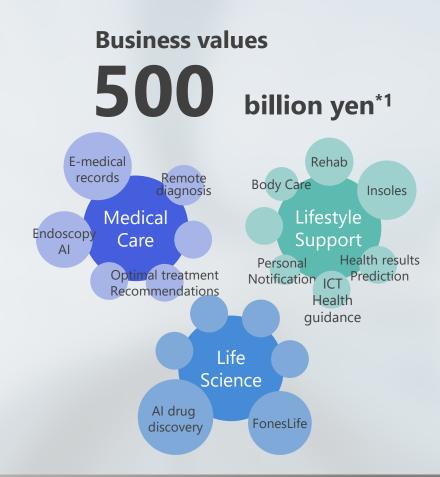
E-medical Insoles records

Endoscopy Health result prediction

Al drug Development FonesLife

Expand into peripheral businesses with strong businesses as the core





Use secure data platform for a secure data management infrastructure

2021

2030

*1 Calculated using both the comparable company method and the DCF method based on a target for 2030 (sales revenue of 100 billion yen).



Integrating R&D and business development to accelerate social implementation

Endoscopic image analysis Al

Applying the world's No.1 facial recognition technology*1 to detect all cancer lesions

2021 Product launch for colorectal cancer in Japan and Europe

World's first CE mark-compliant software *2 (Barrett's esophagus)

Future Improve Al accuracy, expand target cancers

and sales regions

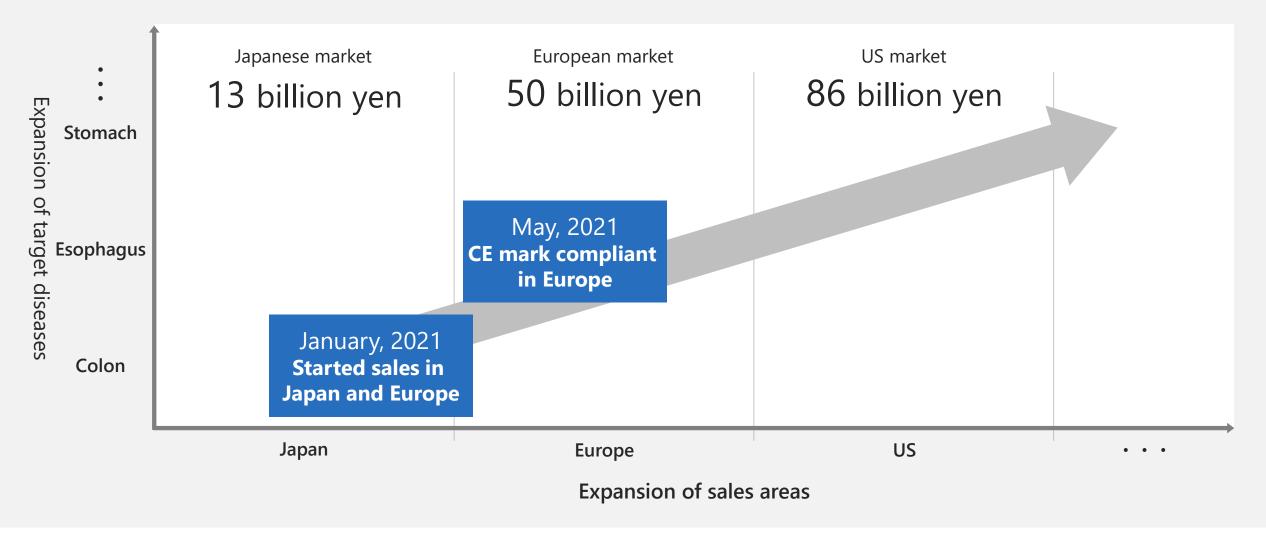


^{*1} Since 2009, NEC has repeatedly been ranked first in the face recognition accuracy evaluation by the National Institute of Standards and Technology (NIST).

^{*2} NEC research (as of May 28, 2021)

Growth Strategy for Endoscopic Image Analysis Al

Aiming for business growth by expanding target diseases and sales areas



Creating new value through collaboration with external partners

Walking sensing insole

Health management advice based on gait data

445 early adapters enrolled in with FiNC and Makuake 2019

Commenced joint research into gait analysis with Teikyo 2021

University and others

Market entry in October

Accelerate B2C2B business in collaboration with multiple **Future**

partners

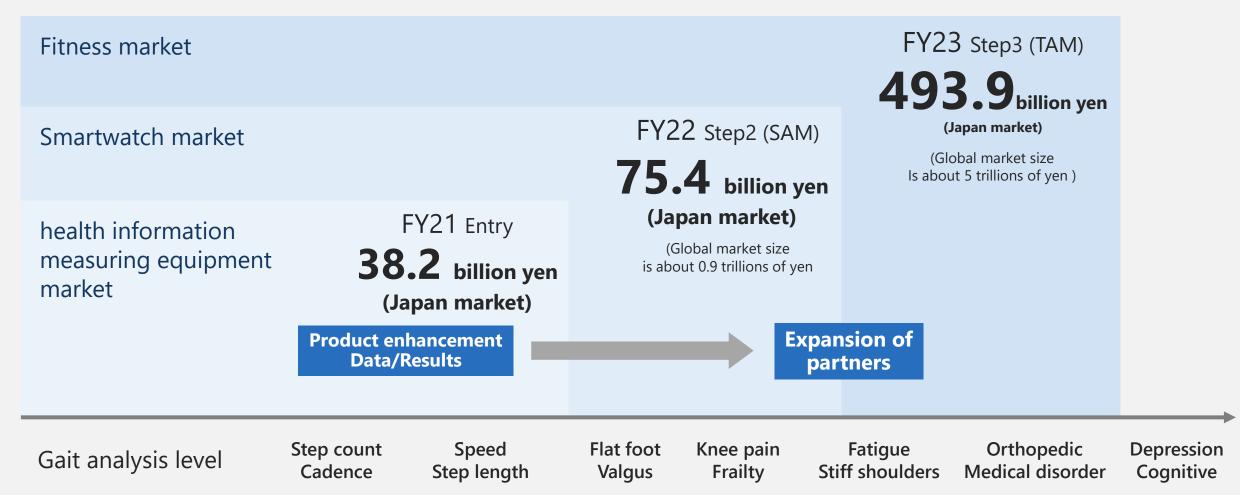
*1 Website for supporting new things and experiences through purchases operated by Makuake, Inc.

*2 Teikyo University Hospital, Mizonokuchi



Growth Strategy for Walking Sensing Insoles

Cultivating fitness market with daily prevention/intervention services through gait diagnosis Al



Strengthening business through strategic cooperation and M&A

Al Drug Development Business

Al-based personalized cancer vaccines for improved cancer treatments

Joint clinical trial with Transgene for personalized cancer vaccines announced

Cancer and infectious disease vaccine development accelerated through acquisition of Oncolmmunity

Future Accelerate further alliances in the area of drug development in Europe

*1 Current "NEC Oncolmmunity AS"





Personalized cancer immunotherapy using cutting-edge AI technology in AI Drug development

Toward a paradigm shift in drug development processes optimized for individual patient

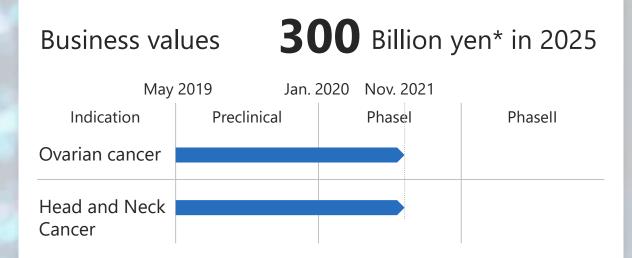
Technological progress

Al-based personalized vaccine design

Graph Al

Multi-race vaccine design technology

*) Calculated based on common methods for drug development; Market size of pipeline / Development phase / Valuation of competitors / The number of drug development pipelines



November 24, 2021 Press Transgene & NEC Announce positive preliminary data from Phase I studies

Their personalized neoantigen vaccine induced robust anti-tumor cellular immune responses against multiple neoantigen targets in all evaluable patients (4/4)



Strategic Global Partnership with BostonGene

April 2019 **\$50M invested**

July 2020

Collaborate to analyze cancer patients in clinical trials

Oct 2020

Collaboration on genetic analysis of clinical patients with ovarian and head and neck cancers in clinical trials

Dec 2021

Expansion into strategic and global partnership

Medical Care Optimal treatment Recommendations

Global expansion

Al drug development

Co-creation

in the trial

NEC

Life Science **BostonGene**

Jointly Cultivating Global market

In Japan, the companies aim to utilize NEC's healthcare and life science network in order to provide BostonGene platform to hospitals throughout the country.

BostonGene platforms

The platform performs AI-based molecular and immune profiling and support physicians in actualizing personalized therapy for cancer patients.

Conducted joint research in 7 hospitals and organizations in the U.S.

Massachusetts General Hospital (October 2021, January 2020)
University of Texas MD Anderson Cancer Center (September 2021)

Live as you

