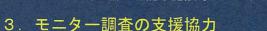
福祉用具・介護ロボットの実用化支援(厚生労働省)

- 1. 相談窓口の設置
 - ・開発者側と使用者側双方からの相談受付
- 2. モニター環境の整備
 - ・モニター調査協力可能な施設等のDB化



- ・現場との意見交換やモニター計画書の作成支援
- 4. 普及•啓発
 - ・展示、研修、貸出などの実施
- 5. 高齢者ニーズの把握・実態調査

The Association for Technical Aids(ATA)



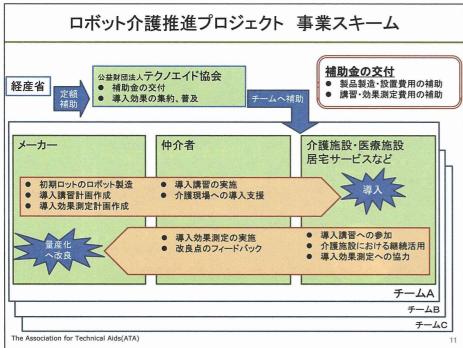














利用効果の検証

〇性能評価

安全性

工学的試験

◎ユーザービリティー評価

使い勝手 実践を通じた製品の製品安全の確認

> 利用者のADLやQOLの維持・向上 介護負担の軽減 サービスの改善・効率性、経済性

The Association for Technical Aids(ATA)

13

ご静聴ありがとうございました

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The Association for Technical Aids(ATA)

自立支援、介護負担の軽減

〇介護を受ける側への効果

- ・利用前後におけるADLやQOLの変化(維持・向上)
- ・機器利用の満足度、安心感、快適性、操作など理解のしやすさ
- ・心理的負担感の変化 など

〇介護者する側への効果

- ・利用前後における腰痛等の発生頻度、精神的負担の変化、
- ・作業負担の軽減、見守り負担の軽減、新たな業務負担の有無 など

〇機器の使い勝手による効果

- ・訓練時間、使用(装着)時間、準備や手間、メンテのしやすさ
- ・臨床場面での操作機能性・安全性、表示、禁忌事項 など

〇介護サービスのプロセスに関する効果

- ・移乗介助の時間変化、排泄支援の時間変化、見守りの時間変化
- ・介護手法の変化、経済的変化、人員(配置)の変化 など

The Association for Technical Aids(ATA)

14



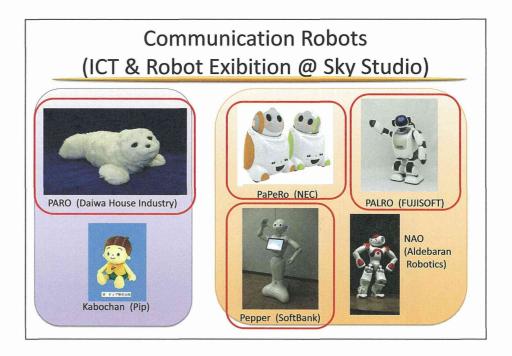


Communication Robot for Persons with Dementia - Based on Field-based Innovation

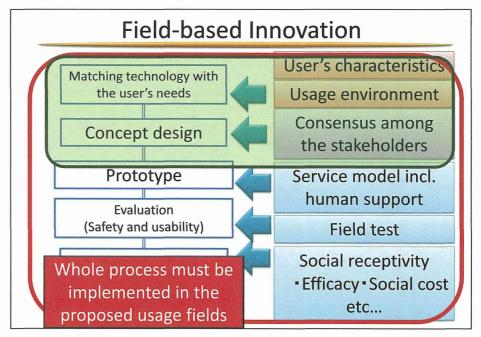


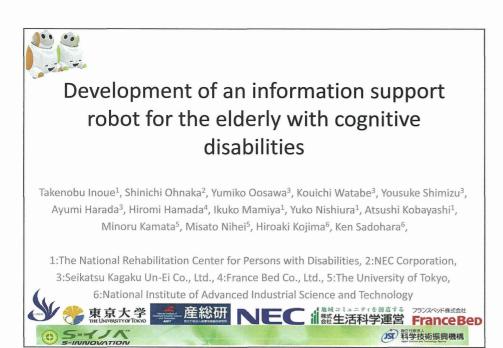
Takenobu Inoue

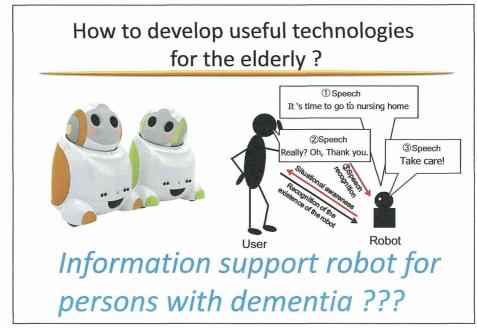
Director of Department of Assistive Technology,
Research Institute of The National Rehabilitation Center for Persons with Disabilities

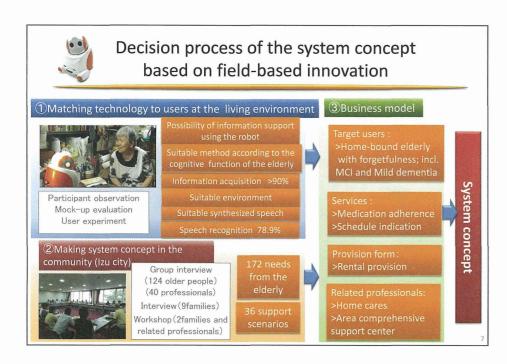


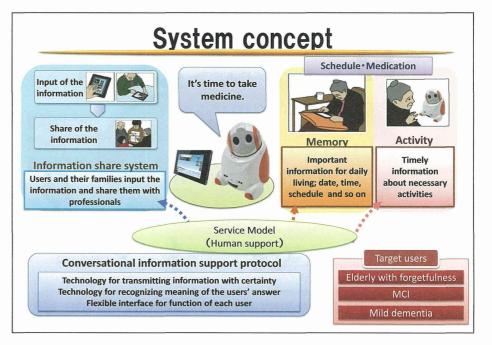










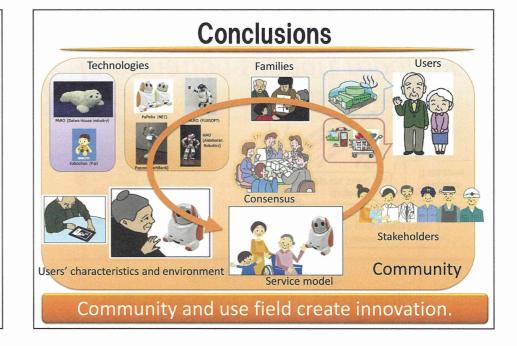


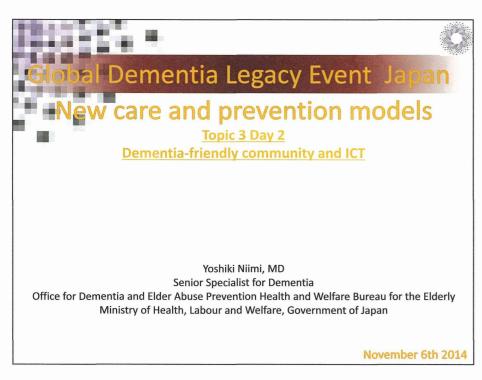


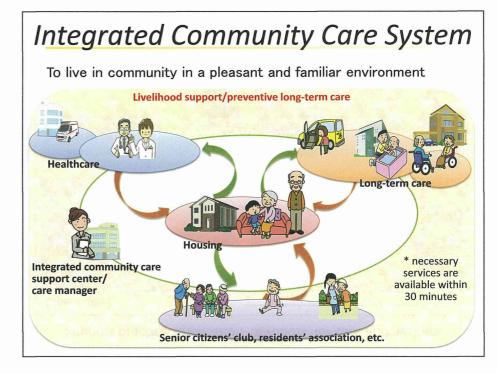


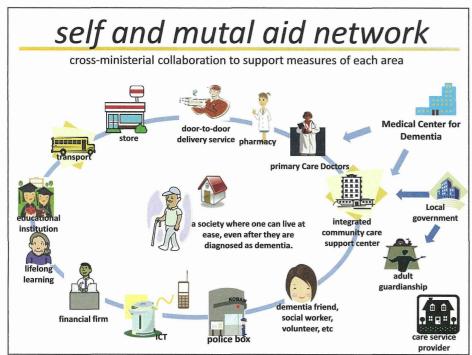
Acknowledgement

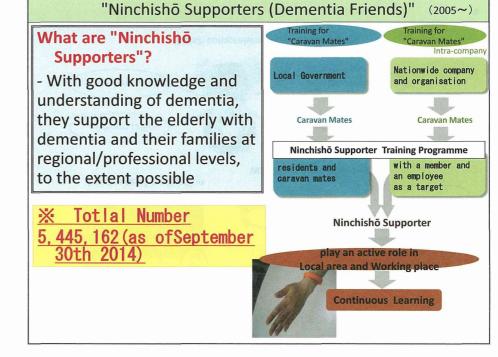
 This research was partially supported by the Japan Foundation for Aging and Health, KAKENHI (21300213) and Japan Science and Japan Science and Technology Agency, JST, under Strategic Promotion of Innovative Research and Development Program.



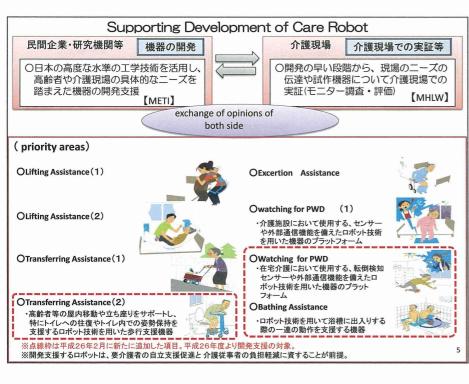


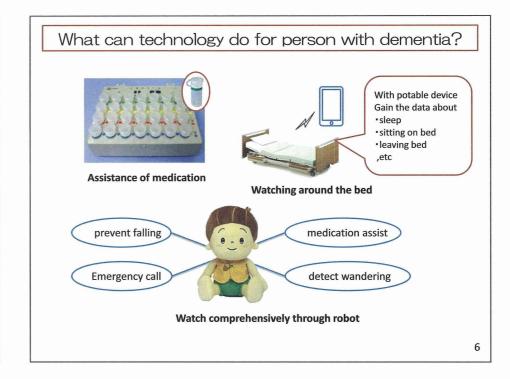


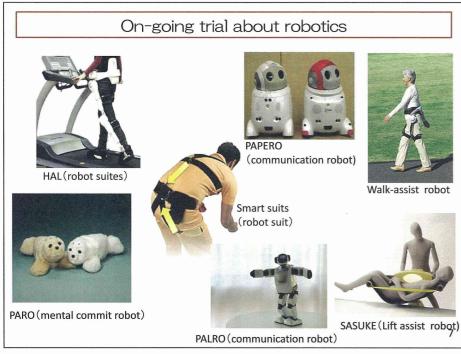


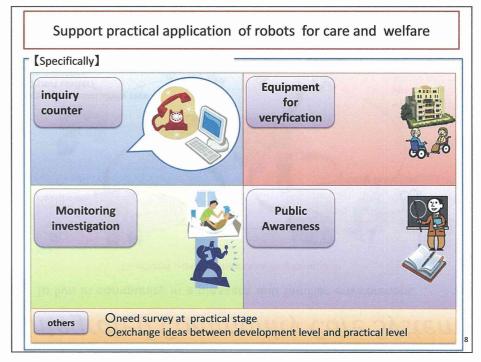














- Aiming for the realization of a society where healthy brains can be developed, protected and restored

Project to overcome brain diseases by cooperation between MEXT. MHLW and METI

Establish innovative methods for the diagnosis, prevention and medical treatment of mental disorders and disabilities by strong promoti of R&D and infrastructure development for research on brain neural circuits and functions related to their etiology.

Grants

Goals and objectives by FY 2015

METI; Super-earlier Diagnosis of Alzheimer's Disease by Analyzing Brain Images and Clinical Information

MHLW; Health and Labour Sciences Research Grants for

aseSupport for Clinical Trials and Research

(promotion of networking among major

MEXT; Japan Advanced Molecular Imaging Program

- > Establish diagnostic technologies and criteria of very early stage brain degeneration by novel molecular imaging methods.
- > Discover candidate biomarkers with clinical utility for the early diagnosis and treatment of brain diseases.

Goals and objectives by FY 2020

- > Initiate pre-clinical and clinical trial studies of candidate drugs of Japanese origin for treatment of brain diseases including depression.
- > Establish objective diagnosis methods and criteria for brain diseases.
- > Complete a whole brain map including neural circuits and functions. MEXT; Ministry of Education, Culture, Sports, Joint Promotion Committee Science and Technology METI: Ministry of Economy, Trade and Industry

HLW; Ministry of Health, Labour and Welfare

Develop methods of diagnosis, prevention and medical treatment MHLW; Health and Labour Sciences Research for Research on Dementia. MPILLY, Health and Labour Sciences Kesearch Grants for

Comprehensive Research on Disability Health and Walfare

Development of biomarkers and image diagnostics for depression, schizophrenia and other mental disease

Support for clinical trial studies

brain

diseases

Development of Technologies for Understanding Higher-order Mental Functions of the Human Brain (e.g. generate disease model animals) National Center for Geriatrics and Gerontology (NCGG)

National Center for Neurology and Psychiatry (NCNP), etc Comprehensive Analysis of Structure and

Activities of Whole Brain Neural Circuits at the Macro

· Strategic Research Program for Brain Sciences Network Mapping Project for Understanding Brain Function (Tentative)

Global Understanding of Brain Circuits at the Neuronal Level Critical for Mental Activity

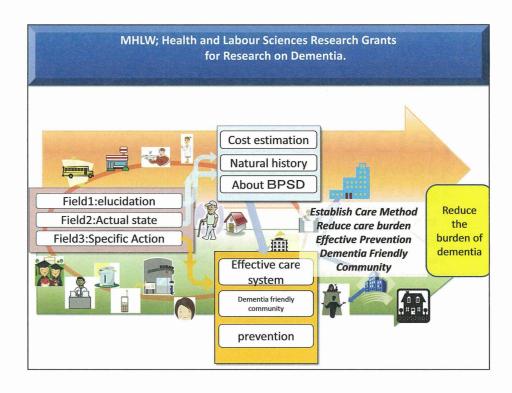
Reveal mechanisms of psychiatric diseases

BRAIN Initiative / USA

In April 2013, President Obama announced the "BRAIN Initiative: Brain Research through Advancing Innovative Neurotechnologies", a ten-year project that aims to develop transformative technologies for recording and observing brain cell signals at large scale and high precision, in order to understand and cure mental diseases and disabilities

Human Brain Project / EU

> In January 2013. The Human Brain Project was adopted as a EU Flagship Project, together with the Graphene Project, as a ten-year project to understand brain by means of computer simulation for robotics and ICT consisting of five sub-projects: ICT integrated infrastructural research platform as the core, data acquisition, theory, applied computing, and ethics.



Information technology and dementia: from brain fitness to collective wisdom Peter J. Whitehouse MD-PhD Professor, Case Western Reserve University and University of Toronto President, Intergenerational Schools International

Intergenerational

What about the non-G7 world? What will our legacy be?

Income inequity and associated global climate change are the greatest threats to persons with dementia, not to mention human civilization, if not existence

ASK THEM and LISTEN



Baycrest

CASE WESTERN RESERVE

