Overview
The University of Tokyo Center of Innovation ‘Self-Managing Healthy Society’
Current mindset & need:
• I go to hospital if I get sick
• Younger generations support elderly
• Medical cost for elderly should be reduced by all means

Future mindset & need:
• I should take care of my own health
• Elderly should also support society
• Increase GDP by creating new health and medical industry

Back-casting

Population (million)


0 20 40 60 80 100 120 140

0 to 17 years old
18 to 34 years old
35 to 59 years old
Elderly
Future vision: “Self-Managing Healthy Society”

- Decrease hospital and clinic visit by half
- Create new health and medical industry
- Prolong healthy life expectancy
- Increase GDP

Satisfaction level of ageing society↑/medical cost↓ = health happiness index⇧⇧

A society where everybody takes health seriously as a personal matter, and the lost ties between communities and between generations are regained.

“LIFELONG WELL-BEING”
Self-Managing Healthy Society

From hospitalization to outpatient care
- Medical technology innovation
  - Day surgery
  - Prevention of severe cases with vascular endoscopy

From outpatient care to home care
- Disease prevention
  - Sustainable support with full use of ICT
  - Next-generation preventive medicine by genome analysis

Being healthy at home
- Visualization of health risk
  - Measurement and visualization of disease
  - Health personalization

Disease
Me-Byo
Healthy

Standardization of health/medical ICT
(MCDRS⇔SS-MIX2⇔PLS⇔Health information)
Prediction of personal health/medical condition from health/medical data and provision of coaching

Data from health and medical checkups + genome data

- Personal genome
- Personal health prediction
- Disease prediction by voice (PST)

Personal health prediction

- Prevention of transition to DM dialysis (NTT, KHK)
- Dementia (Eisai)
- Immunological disease (Chugai)

Personalized health service

- Utilization of AI

Patient

Healthy individual

Next-generation Health Concierge
Promotion of behavior change

1. Prediction and visualization of personalized risks
   - Response by AI

2. Personalized coping plans and incentives
   - Execution

3. Visualization of change/effect
   ⇒ Realization of improvement (back to 1)

Health personalization (‘Jibun goto ka’) and behavior change

Lifelong well-being
State-of-the-art science and technology seeds matching the vision + corresponding needs of industry and government

Center of Innovation

- Practitioner of healthcare business
- Hospital officials
- Medical economics experts
- Former PMDA and NIHS officials
- ISO committee member
- Investment Fund
- Medical technology assessment lab
- IP agreement management
- Full-time PL

Involvement of all stakeholders in industry, government, academia and private sectors from early stage of R&D

Social implementation through speedy R&D, human resource development and policy proposal

Towards a sustainable “Next Generation Health and Medical Development Center” by integration and development of the above
The University of Tokyo Center of Innovation challenges major issues!

We pledge to contribute to solving problems facing ageing society through innovation and social system reform using the University’s intellectual asset including voice analysis, ultrasound, ICT, and behavior change technologies.