

Redesigning Communities for Aged Society

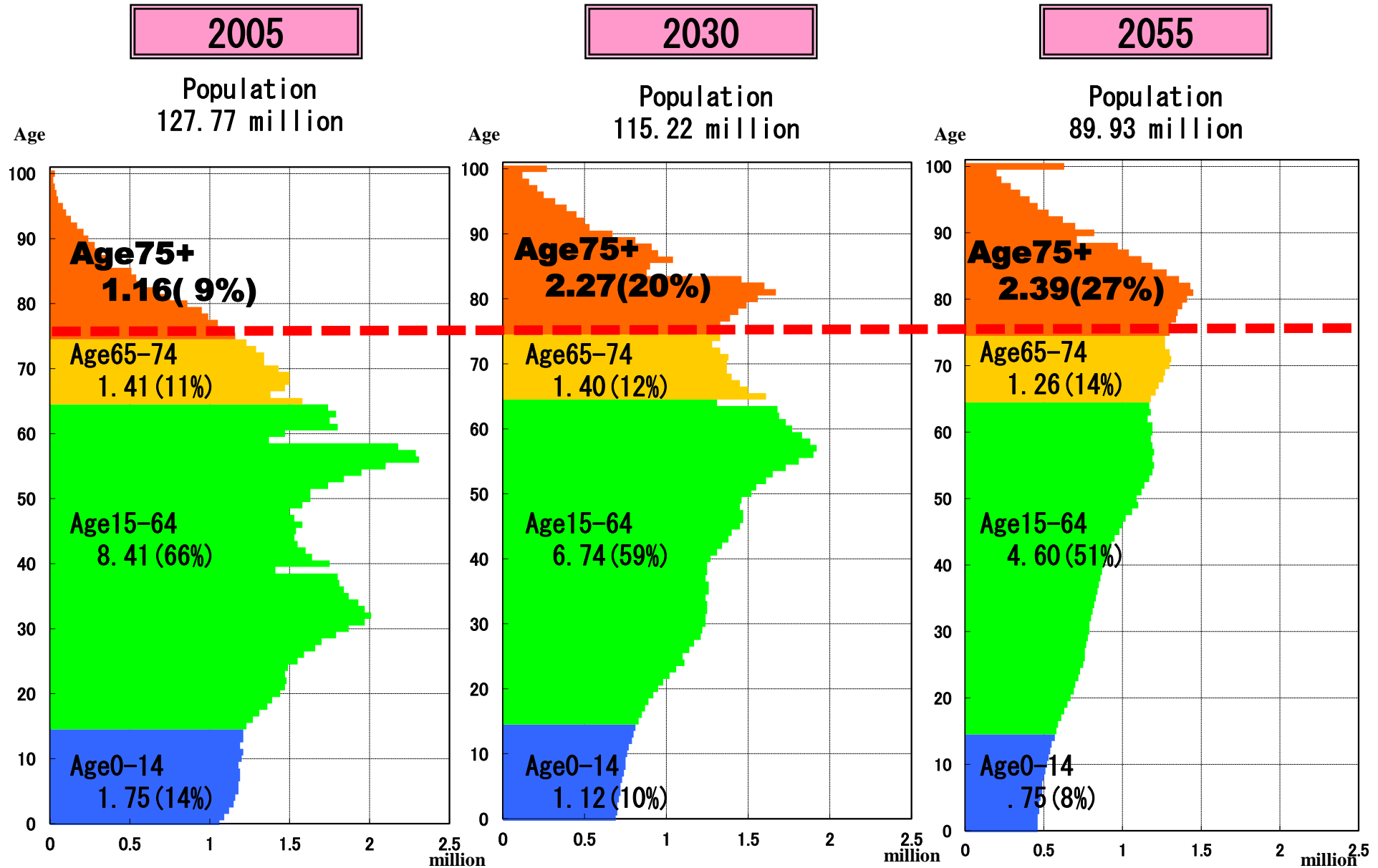
- Kashiwa Model -

Hiroko Akiyama

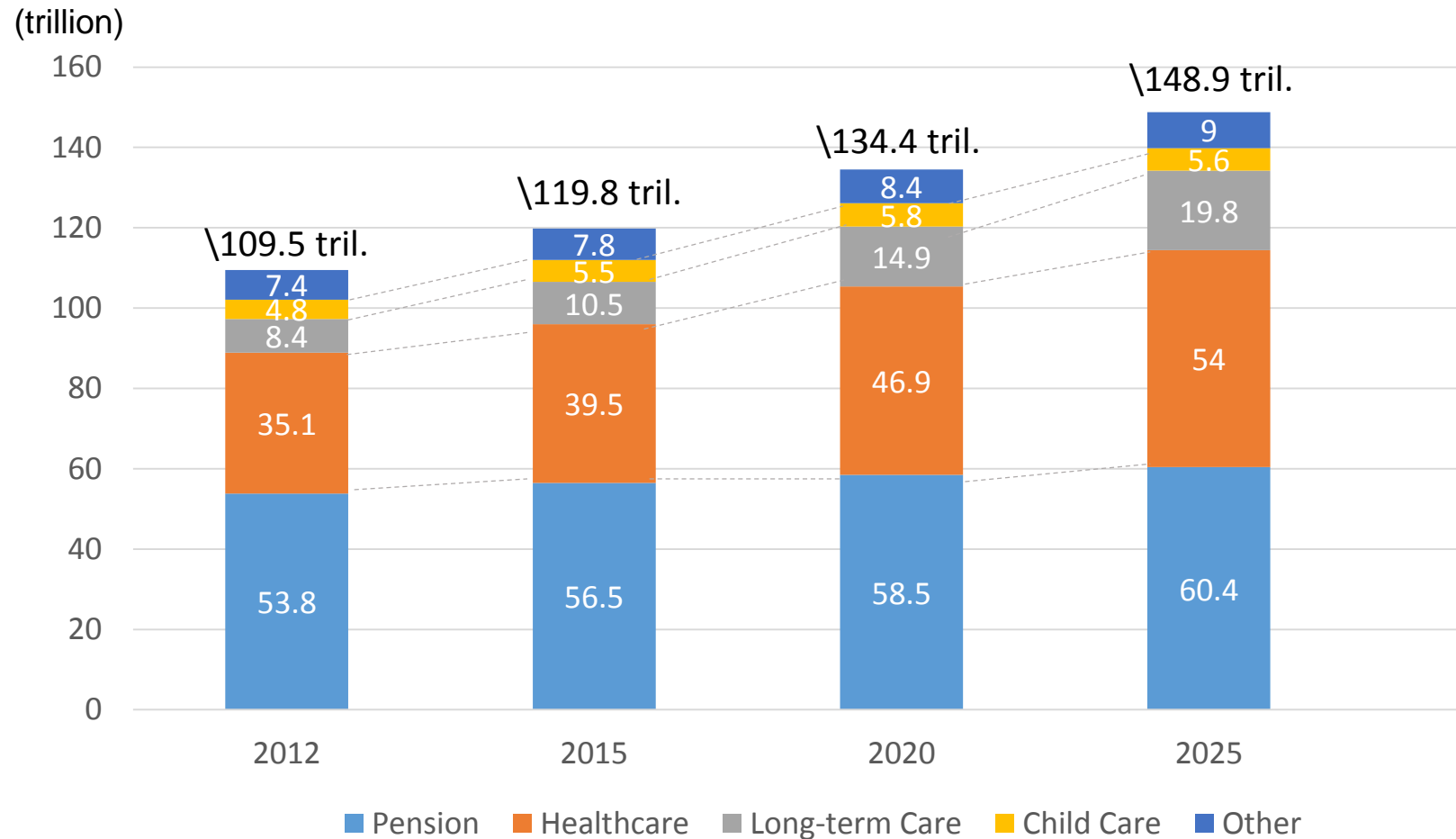
**Institute of Gerontology
The University of Tokyo**

4th International Conference of Long-term Care Directors and Administrators
August 2, 2018

Drastic Increase of Older-olds (age75+) - Japan

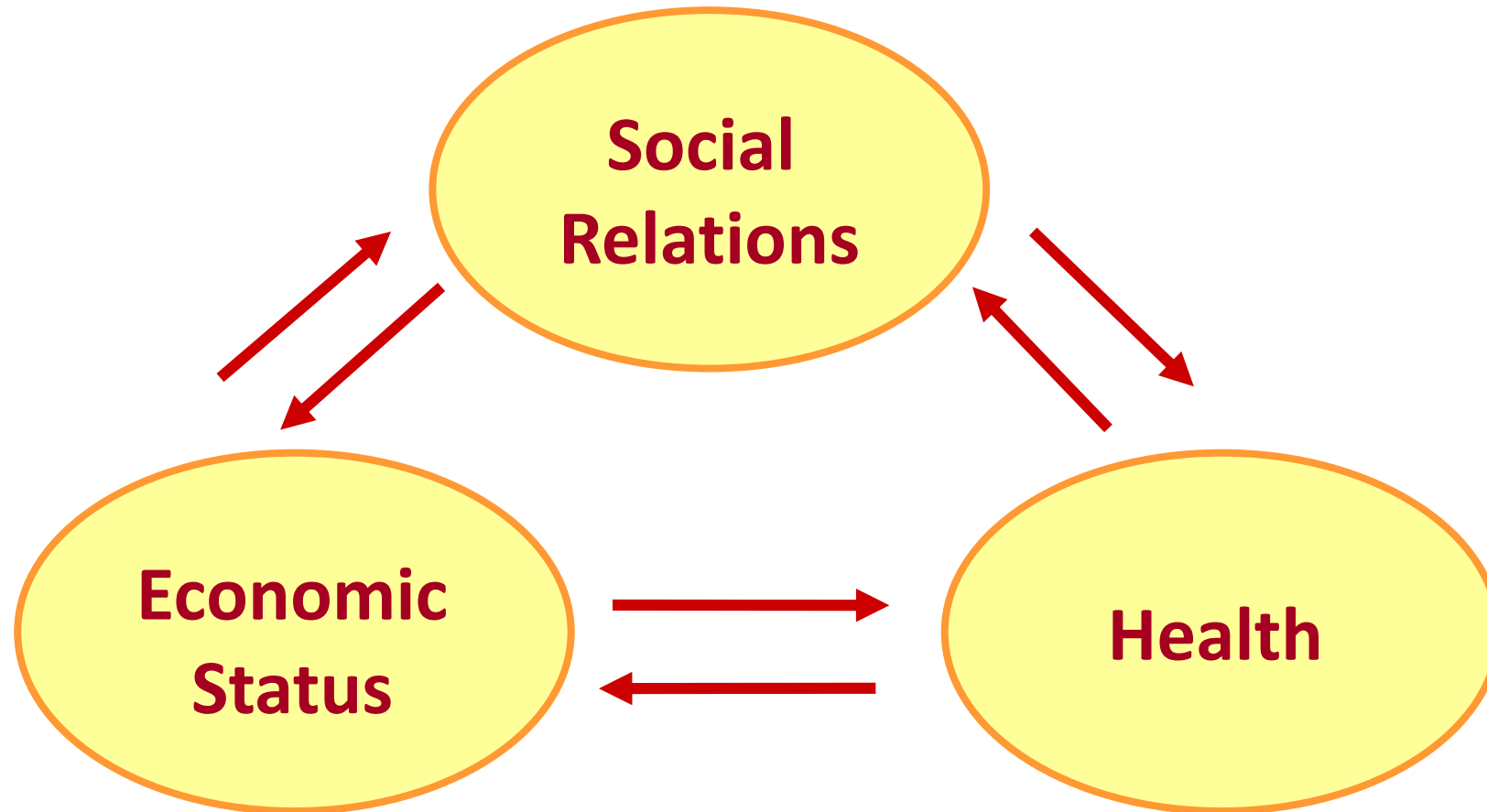


Social Welfare Spending



Well-being of Japanese Elderly Survey


N=5715, (1987-)



Survey Design

- **National probability sample of 5715 Japanese (age 60+)**
- **Face-to-face interview in every three years**
- **Supported by NIA & Ministry of Health, Welfare and Labor**

Survey Years

Wave 1	1987		20 years
Wave 2	1990		
Wave 3	1993		
Wave 4	1996		
Wave 5	1999		
Wave 6	2002		
Wave 7	2006		
Wave 8	2012		

Independent Living Measure

Score

- 3 ADL & IADL without assistance**
- 2 IADL with assistance but ADL without assistance**
- 1 ADL & IADL with assistance**
- 0 Dead**

ADL questions

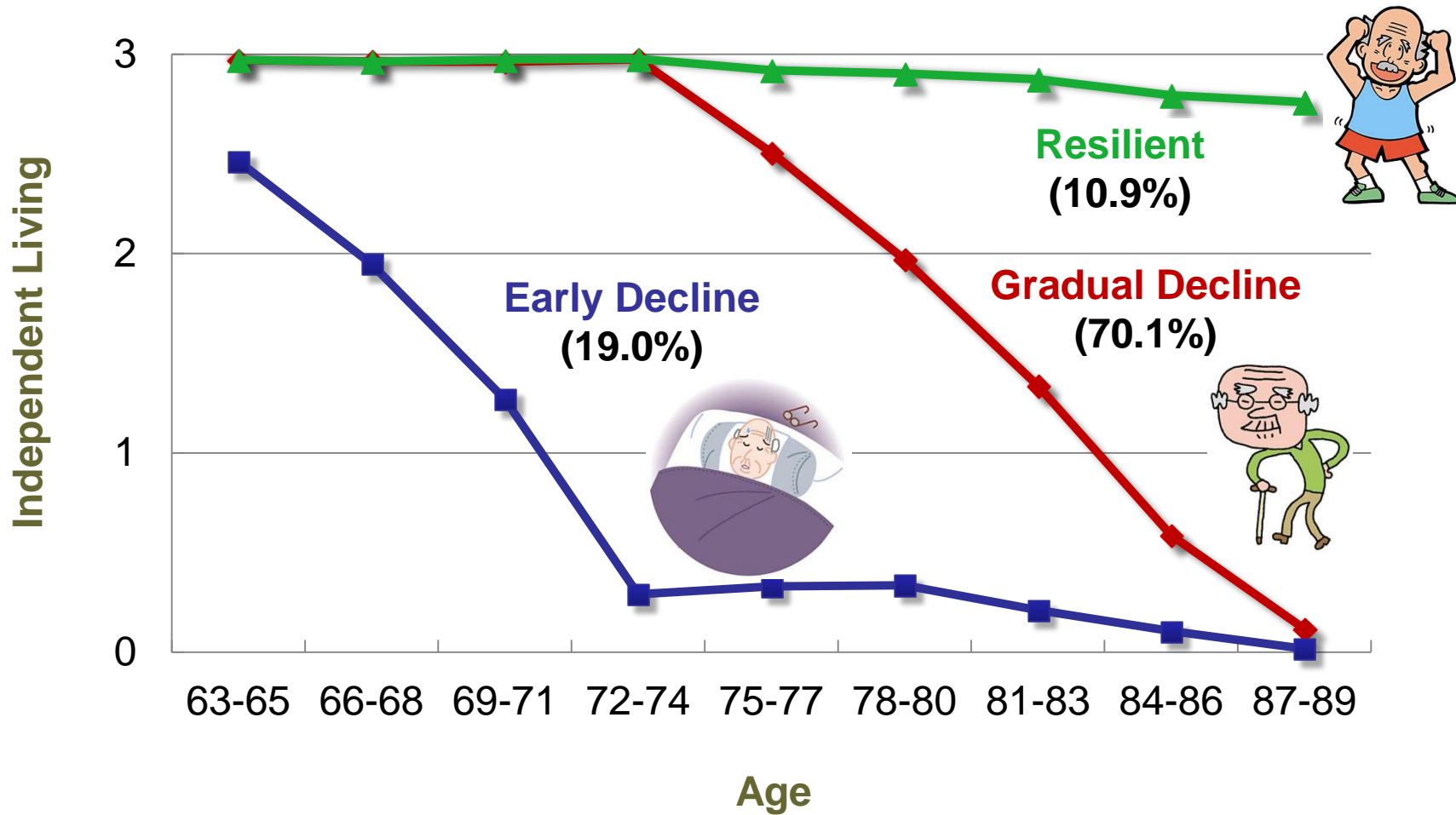
- Bathing
- Walking a short distance
- Going up a few steps

IADL questions

- Shopping for groceries or clothes
- Using the telephone
- Going out by bus/train

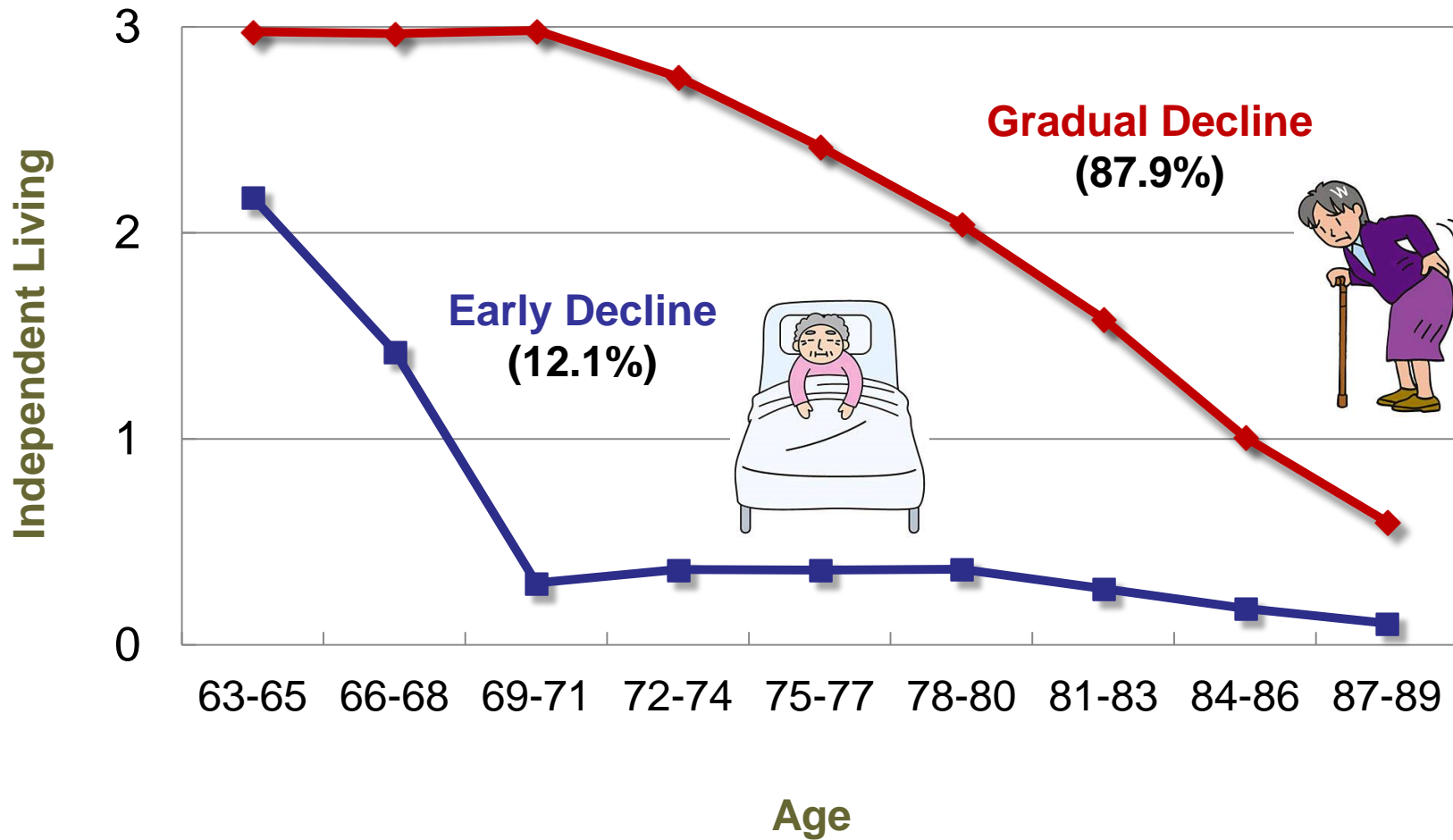
Trajectories of Independent Living

Men

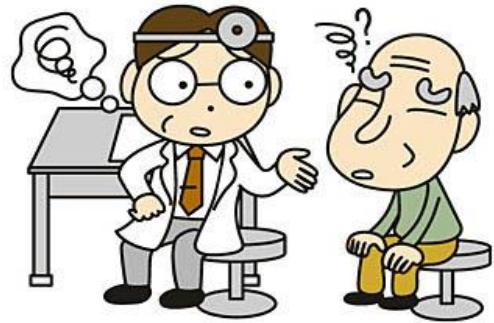


Trajectories of Independent Living

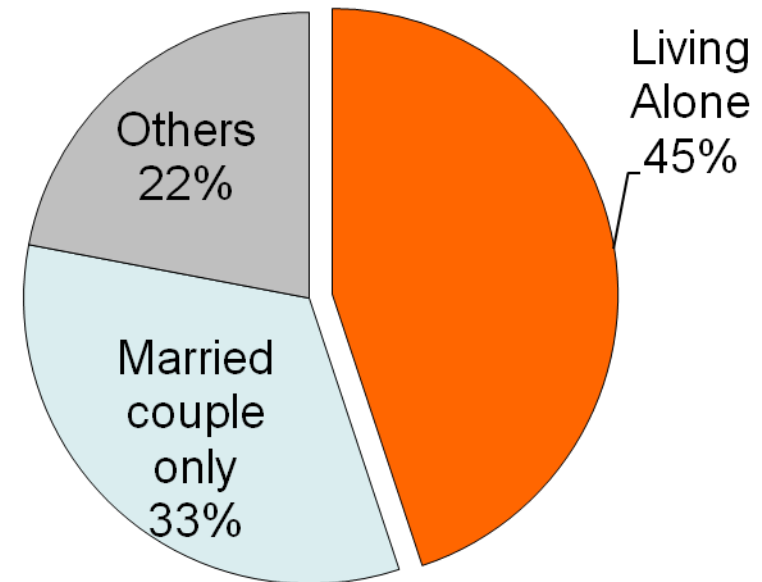
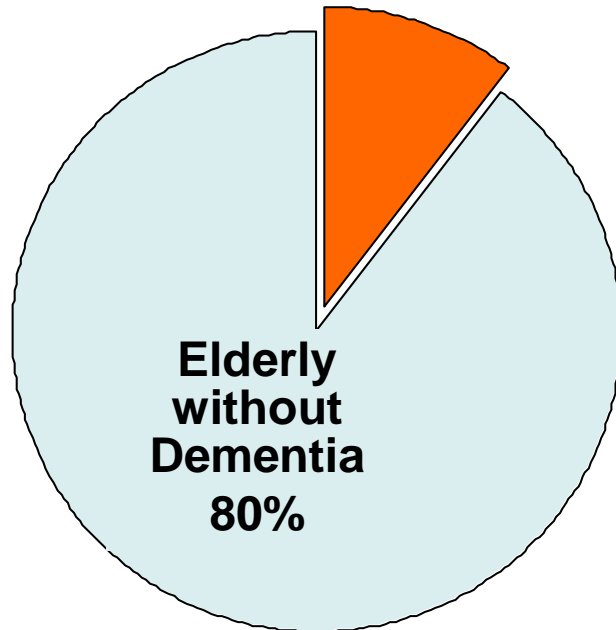
Women



Demographic Shift and New Needs (2030)



**Dementia
20%**



A horizontal timeline with an arrow pointing to the right. Three specific years are marked above the line: 1960, 1990, and 2013.



National Long-Term Care Insurance system enacted in 2000



The insurance covers both institutional and home care.

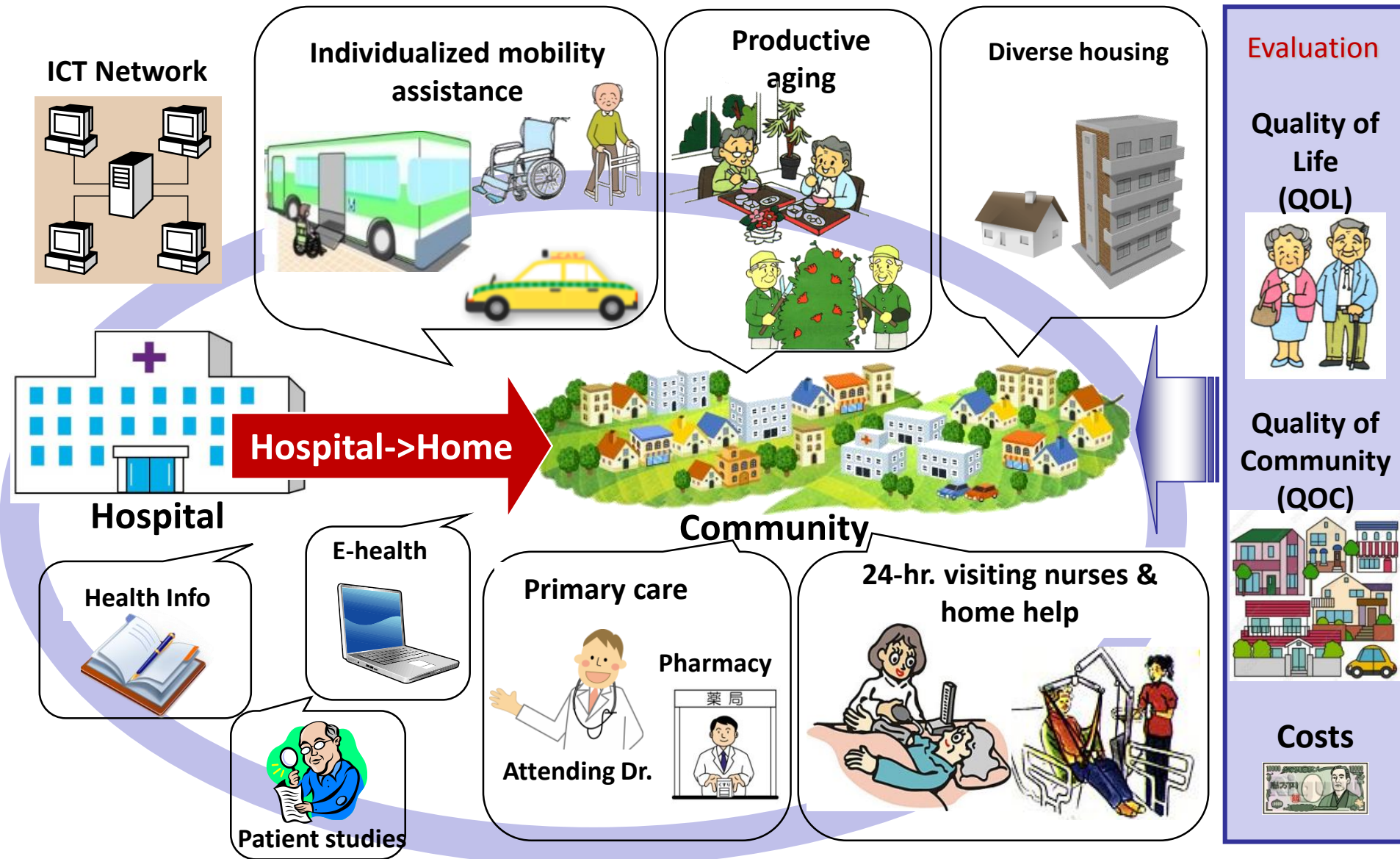
We know what are issues.

What we need now are solutions and actions!

Action Research

- **Aims to solve a social problem**
- **Active participation in collaboration of multi-stakeholders**
- **A spiral of steps, each of which is composed of a PDCA circle**

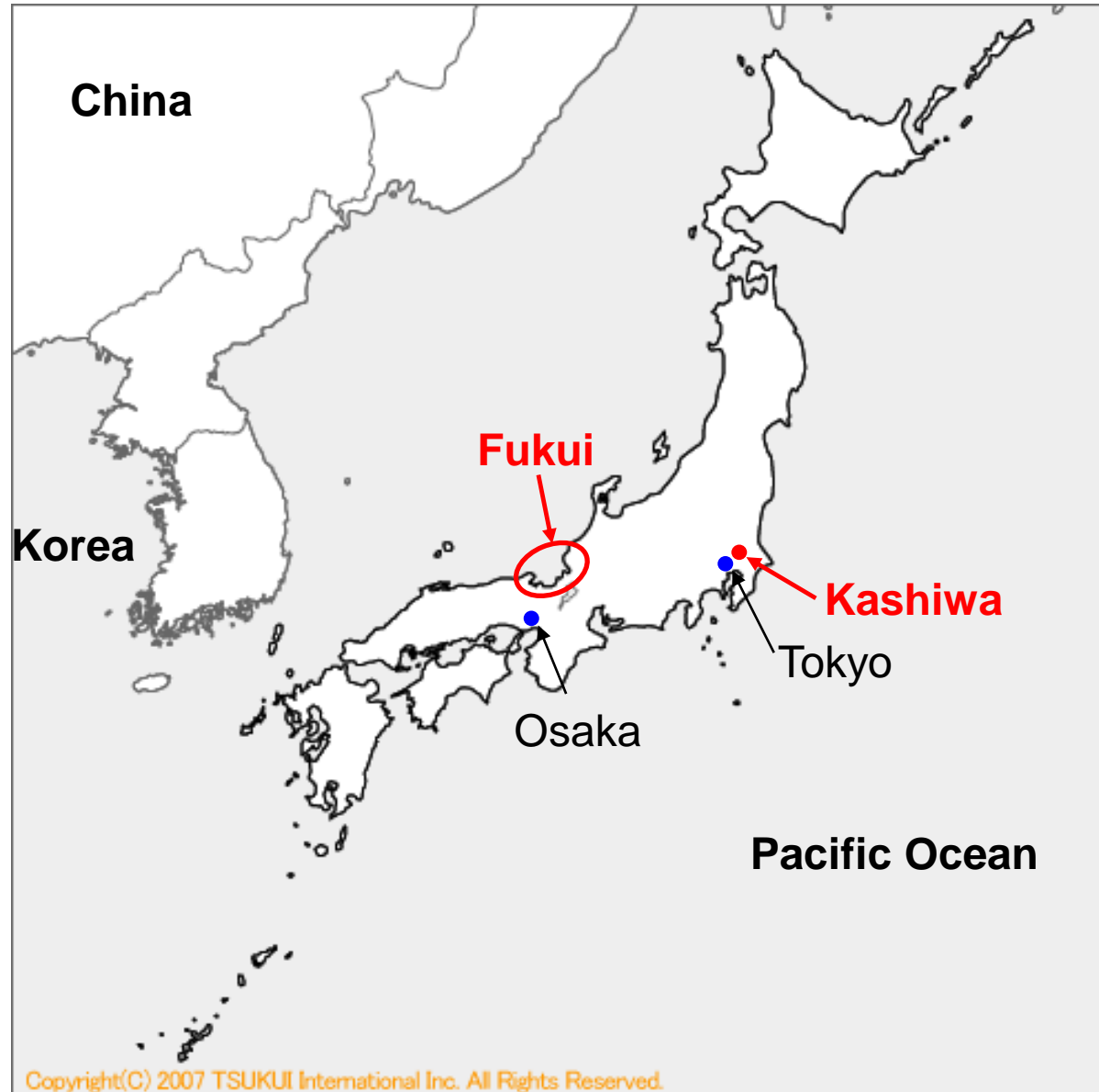
Redesigning Communities for Aged Society



Major Projects

- Productive aging
- Life long learning
- Human Bonds
- **Frailty prevention**
- **Health care & long term care**
- Housing
- Transportation
- ICT

Social Experiment Sites

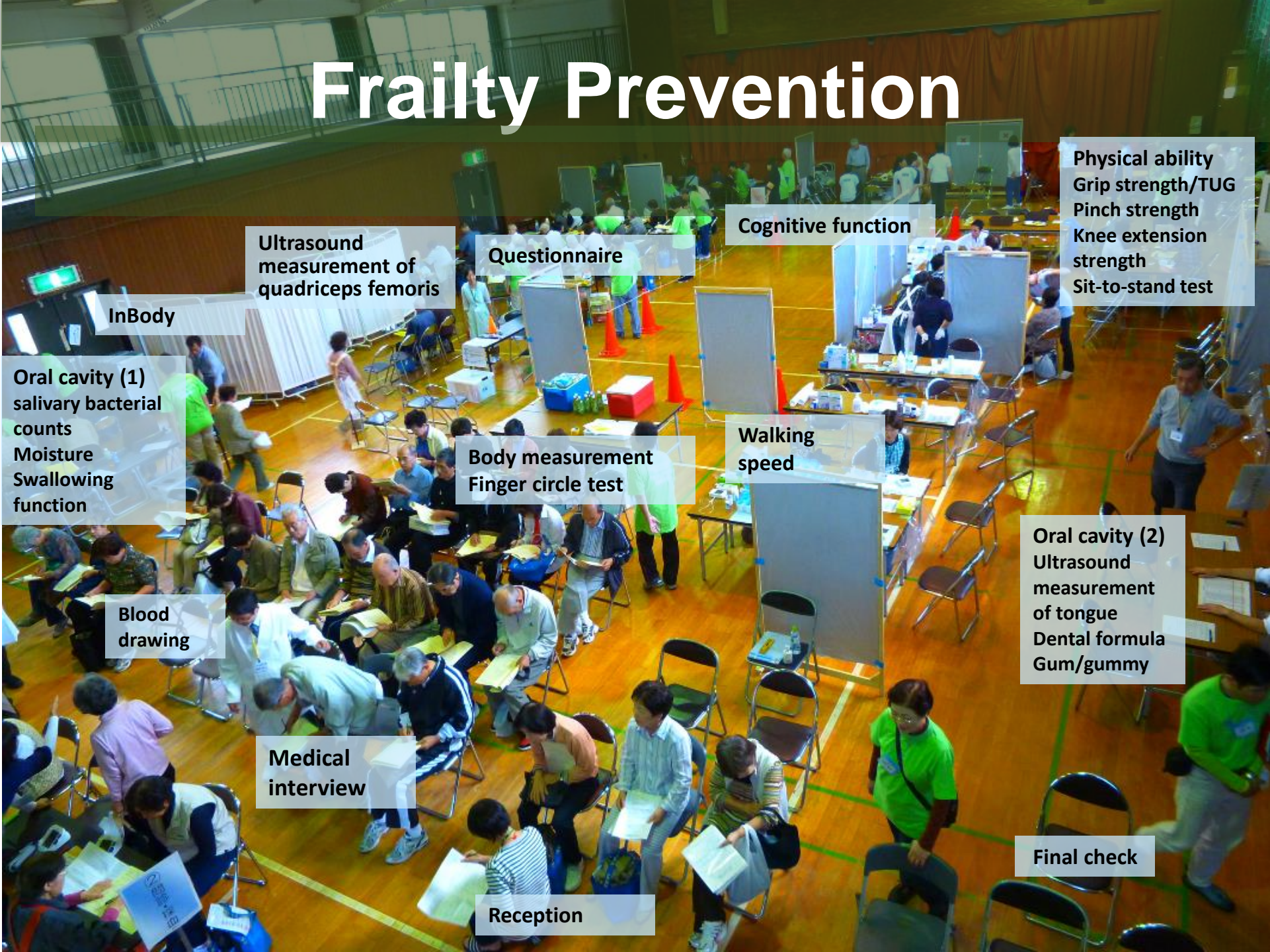




Community for 2030



Frailty Prevention



InBody

Oral cavity (1)
salivary bacterial
counts
Moisture
Swallowing
function

Blood
drawing

Ultrasound
measurement of
quadriceps femoris

Questionnaire

Body measurement
Finger circle test

Cognitive function

Walking
speed

Physical ability
Grip strength/TUG
Pinch strength
Knee extension
strength
Sit-to-stand test

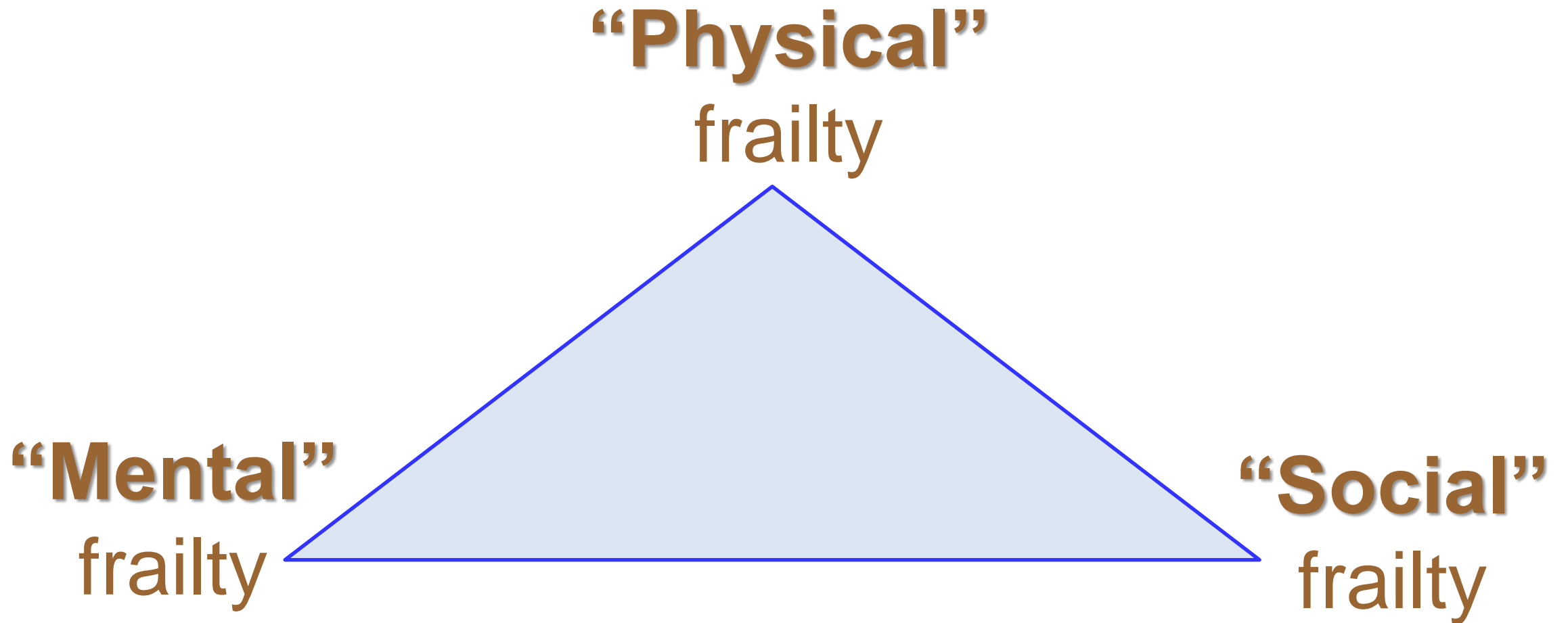
Oral cavity (2)
Ultrasound
measurement
of tongue
Dental formula
Gum/gummy

Medical
interview

Final check

Reception

Multi-dimensional Frailty



Frailty Check-up Conducted by Senior Citizen Supporters

Training program for senior citizen supporters



Frailty check-up conducted by senior citizen supporters



【日本】 お年寄りの姿の変遷



1年10ヶ月「寝たきり」
だった



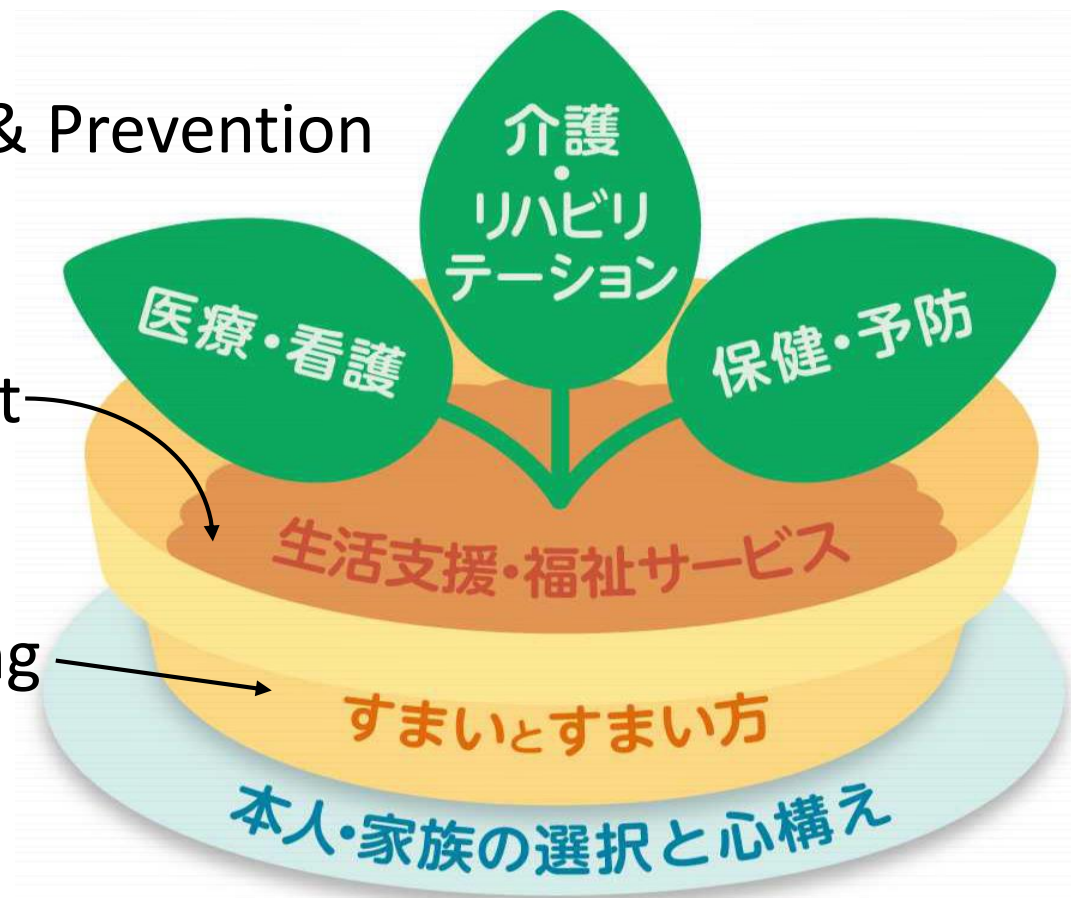
Flowerpot Concept of Integrated Community Care System

Plant: Healthcare & Prevention

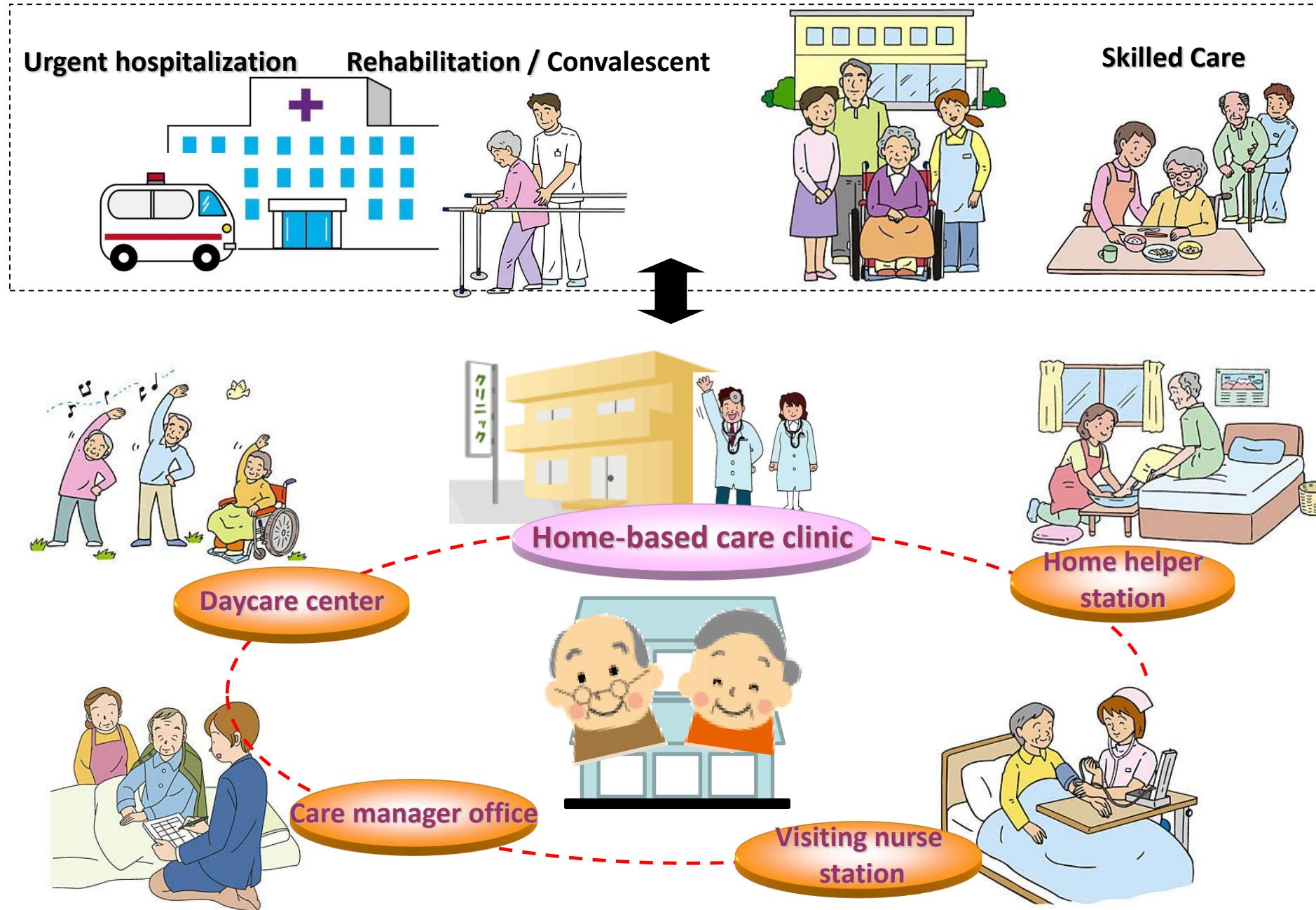
Earth: Living support

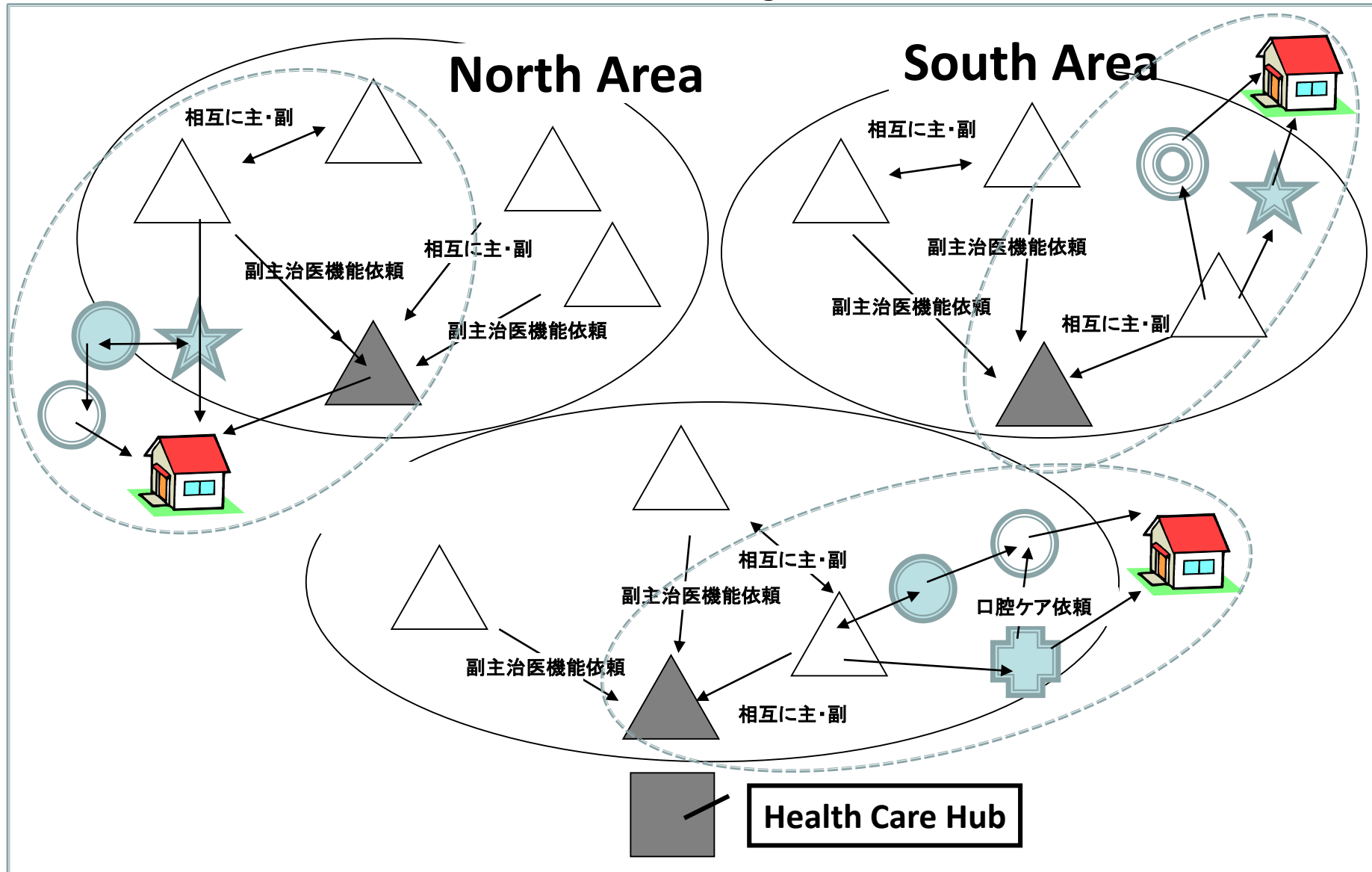
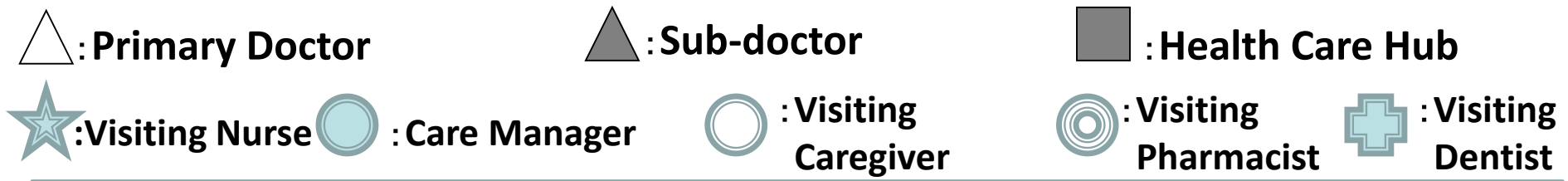
Flowerpot: Housing

Tray: Patient's choice & preparation



Integrated Home-based Care





5 Working Groups

(1) Physician WG

- Kashiwa Medical Association and hospitals
- Workable relations among the primary doctors, sub-doctors and hospitals

(2) Coordination WG

- Coordination among health care and long-term-care services

(3) Trial Practice WG

- Testing and verification of the system using by trial runs

(4) Hospital WG

- Discharge protocol and backup system of home-based care

(5) Face-to-Face WG

- All service providers get together and enhance the partnerships



Training Workshop for Health and LTC Professionals on Home-based Care

Day 1

○Curriculum

- Needs for home-based care
- Identifying useful resources in the area (GW)
- GW by profession
- Networking party



GW by mixed professionals

Practicum

(Physician only)

○3 hours × 2 times

○Options

Accompany with:

- Physician home visit
- Nurse home visit
- Care manager visit
- Ward rounds in hospice



Accompanying Dr. home visit

Day 2

(1 month after Day 1)

○Curriculum

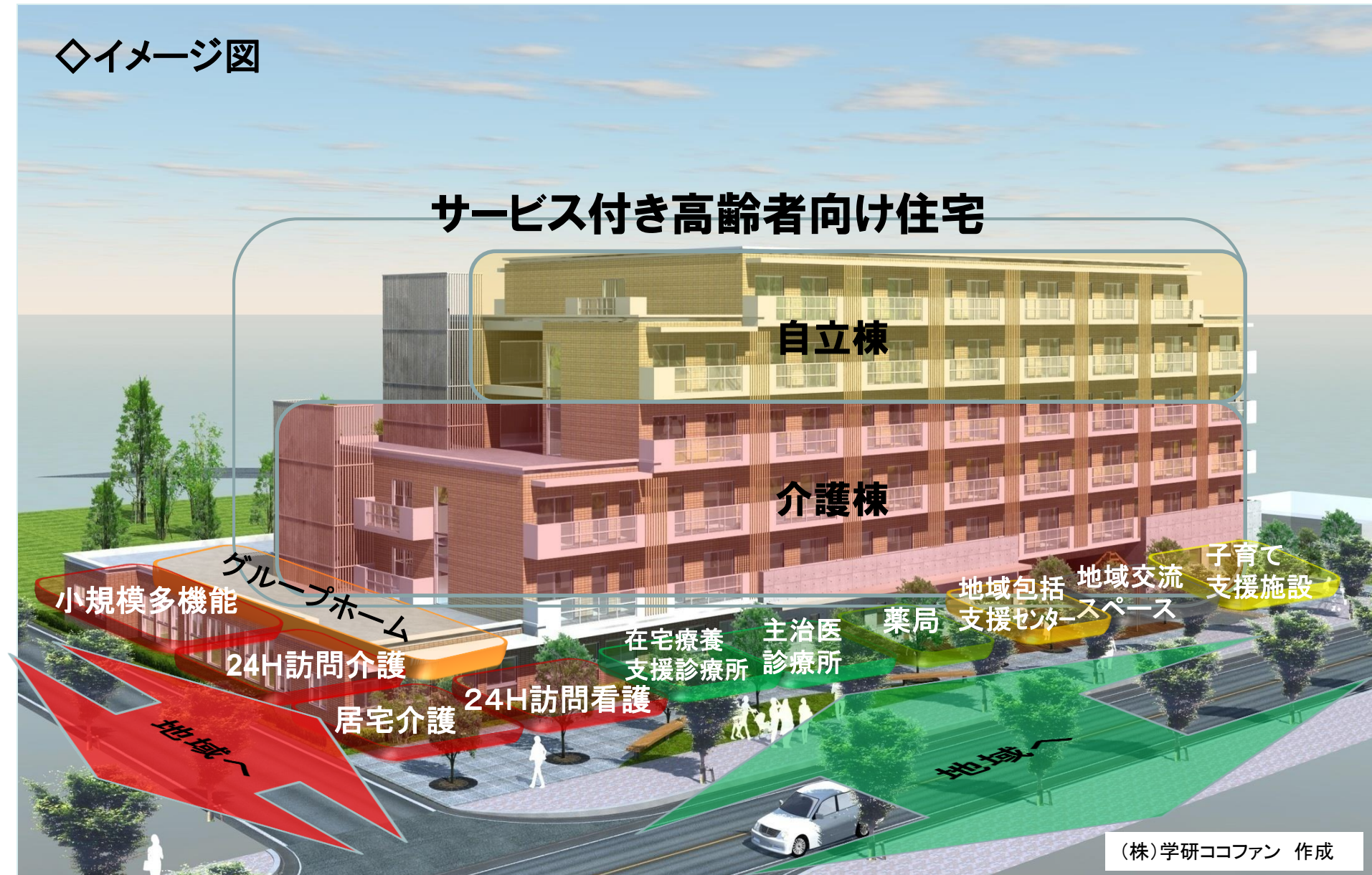
- Starting Home-based Care
- Collaboration of multi-professionals
- GW by profession
- Review of practicum experience (GW)
- Challenges and solutions of home-based care (GW)
- System & compensation
- Awarding certificate



Group photo

Assisted Living in Community

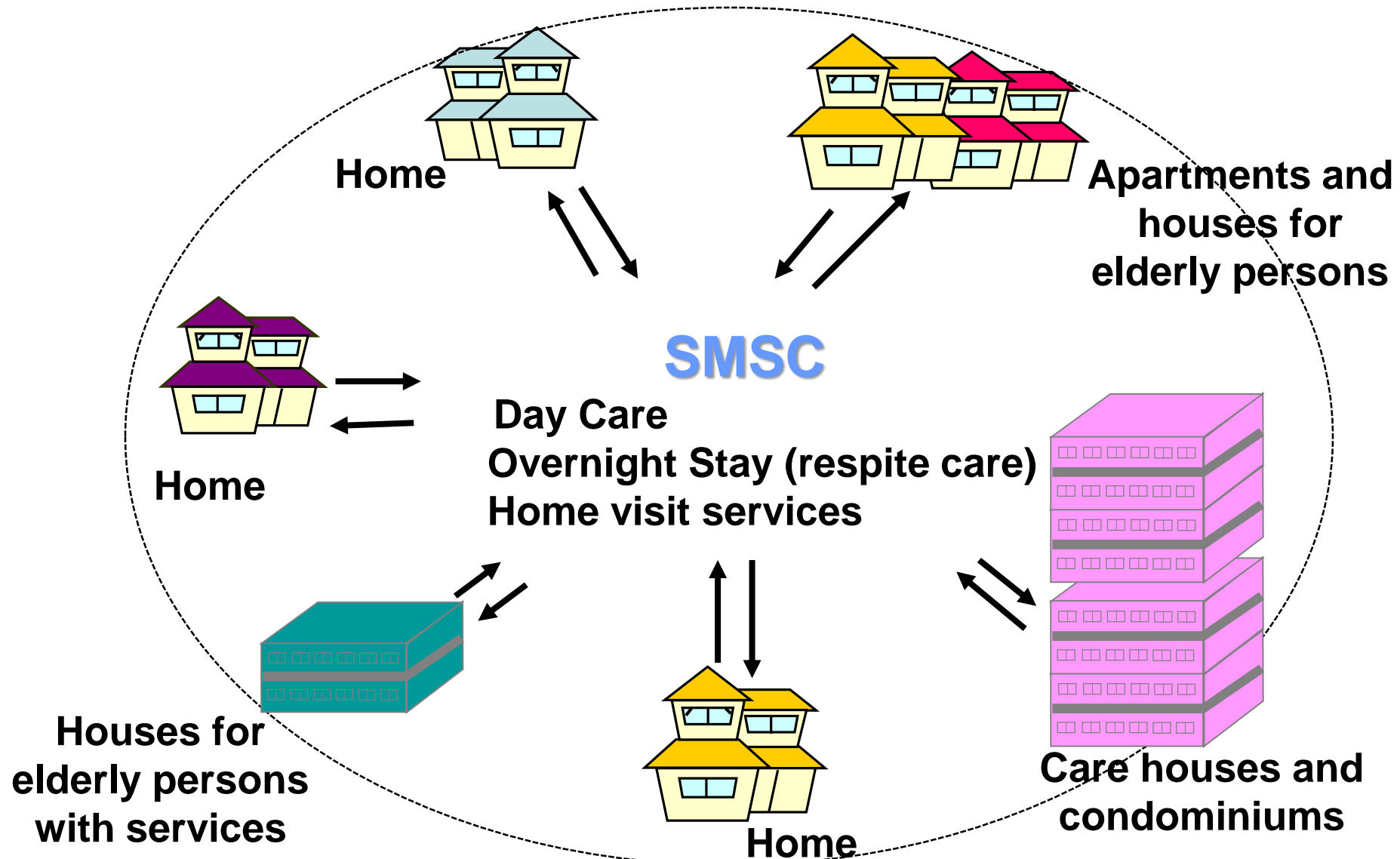
◇イメージ図



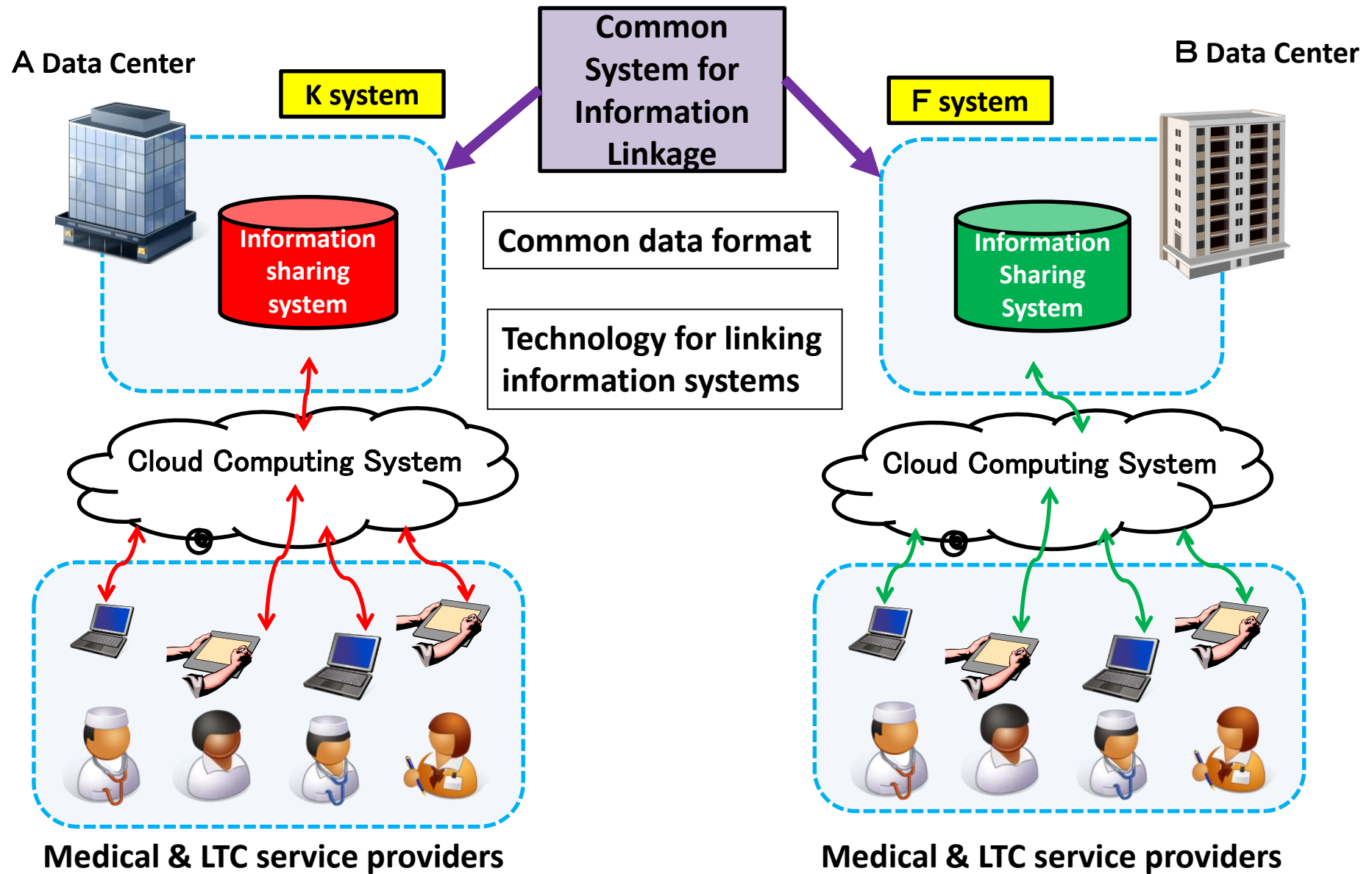
Home-based Health Care



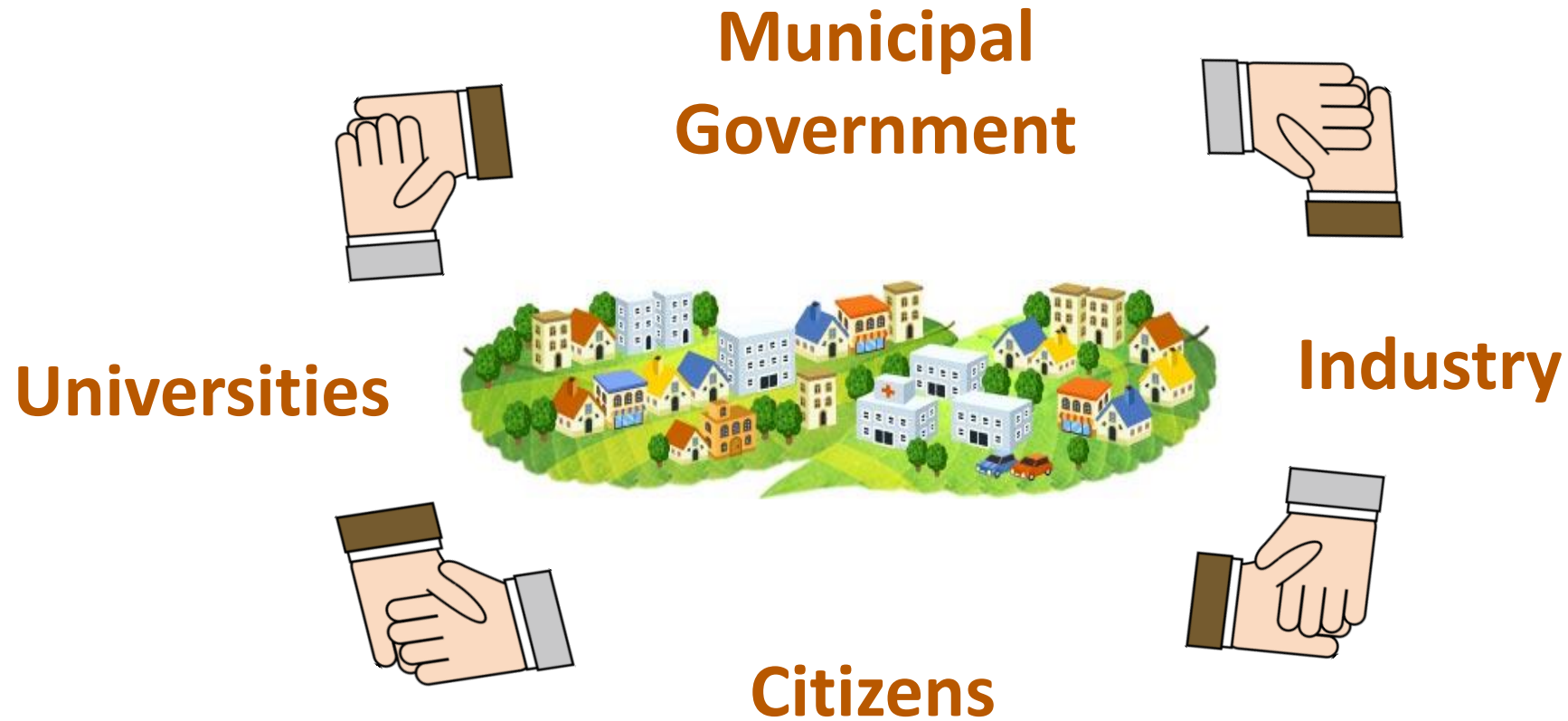
Small Multifunctional Service Center



Common Infrastructure for Sharing Information



Collaboration of Multi-stakeholders

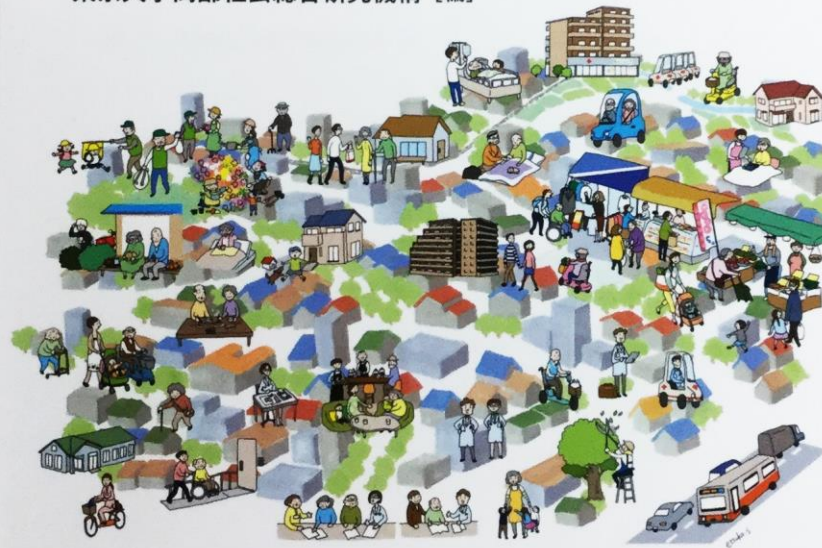


Guidebook to Community-based Integrated Care System

地域包括ケアの すすめ

在宅医療推進のための
多職種連携の試み

東京大学高齢社会総合研究機構 [編]



東京大学出版会