

ICT contributions to active and healthy ageing – practice seen in Japan

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CHALLENGES faced

- Ageing is so rapid in Japan that 40 % of population will be over 65 in 2060.



	2010	2060 (expected)
Total population	128 m	87 m
65~	29 m (23%)	35 m (40%)
Life expectancy	F: 86.4 / M: 79.6	F: 90.9 / M: 84.2

Source: National Institute of Population and Social Security Research

- While ageing entails a wide range of issues, one of the most prominent is higher

social costs



	2008	2025 (expected)
Medical Expenses	€ 360 b (7.1%/GDP)	€ 520 b
65~	€ 114 b (32%)	€ 240 b (46%)

Source: Ministry of Health, Labour and Welfare etc.

WORKS ahead

- ICT for controlling social costs and better delivery of health care services

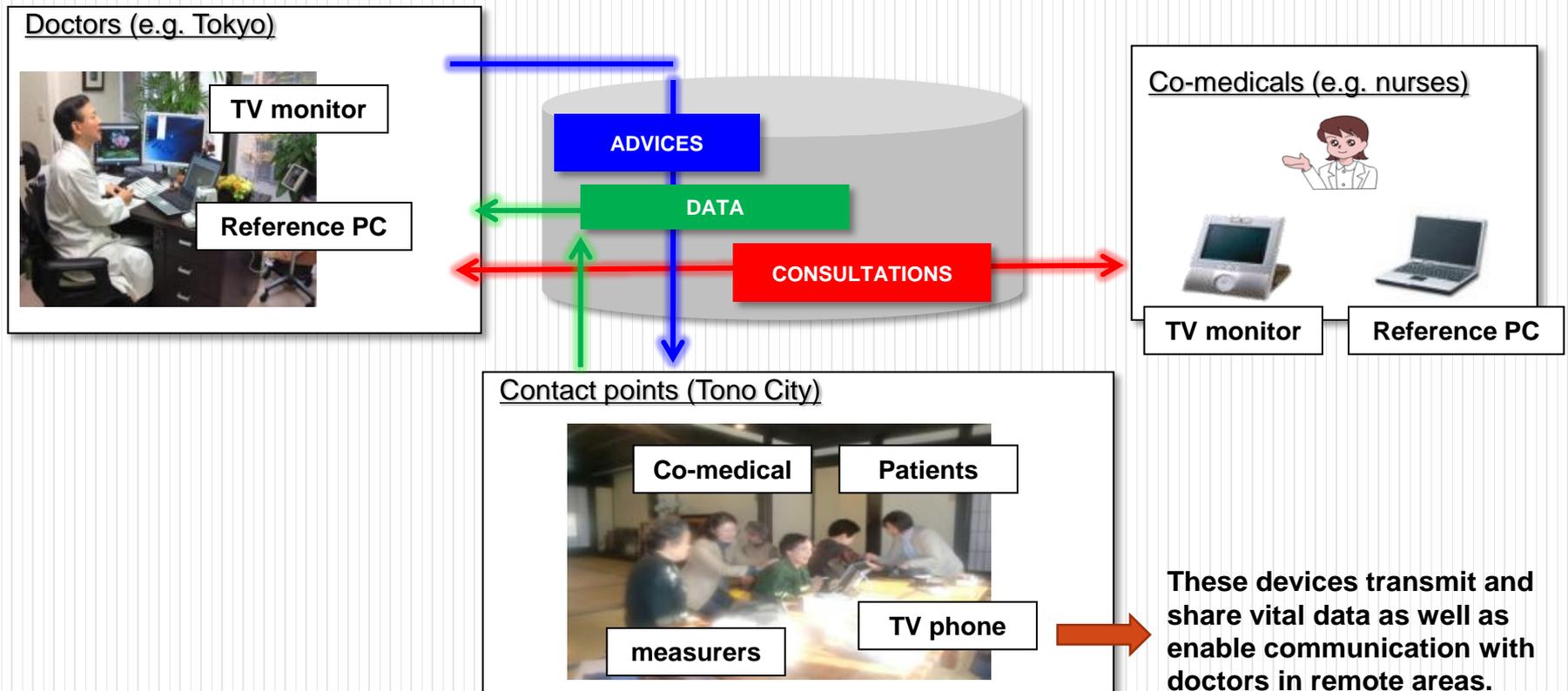
- Tele-medicine
- Electronic clinical records and cloud computing services for medicine

- ICT for empowering elderly/disabled people

- Tele-work
- barrier-free realized by life-supporting technology (e.g. robot)

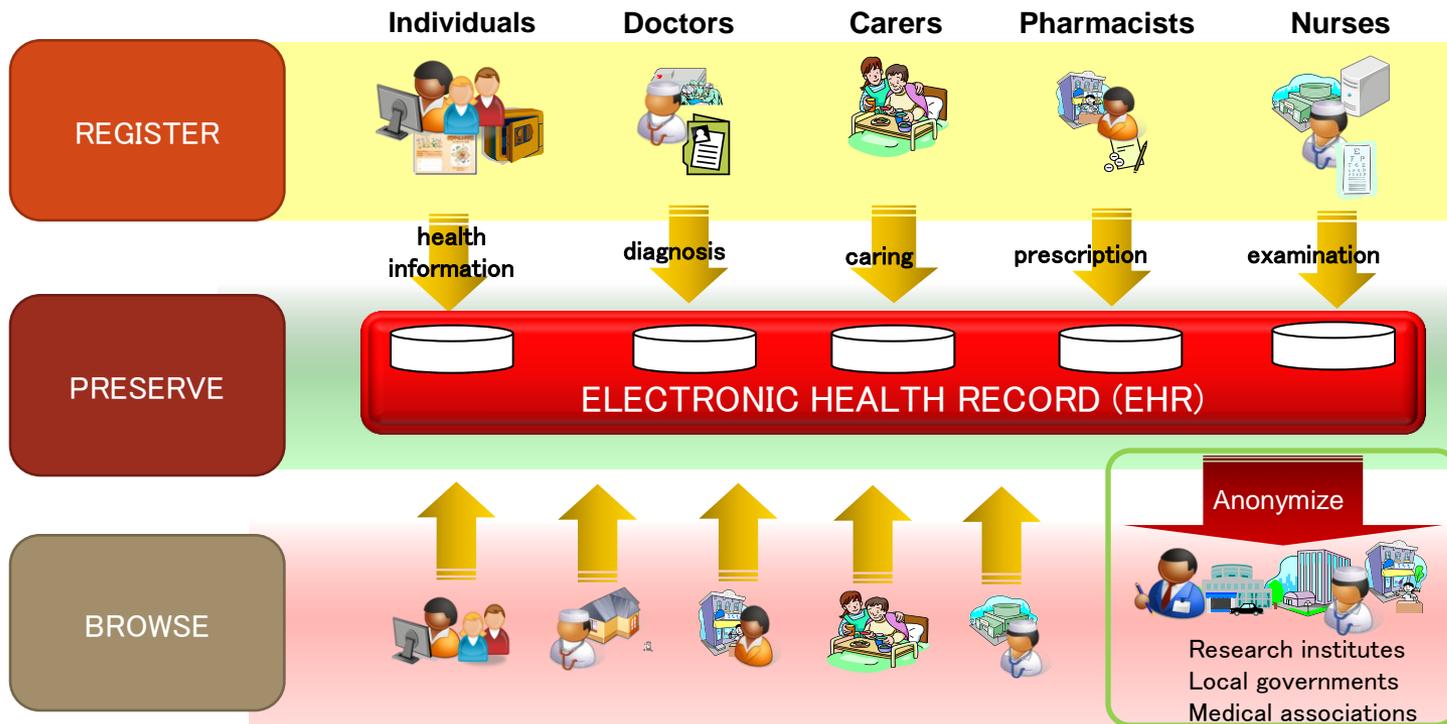
LESSONS learned – Telemedicine (a case of Tono City)

- ✓ Tono City, in a remote area, has built an interlocking system which allows doctors in urban areas (e.g. Tokyo) and local co-medicals to work together.
- ✓ No less than 400 locals, particularly elderly people, come together in 17 contact points to be provided with medical advices and instructions over teleconference.
- ✓ As a result, patients with such syndromes as hypertension, diabetes, and impairment of liver function have improved their test values. For instance, the rate of improvement in hypertension was 62.7% and LDL-cholesterol 47.1%.



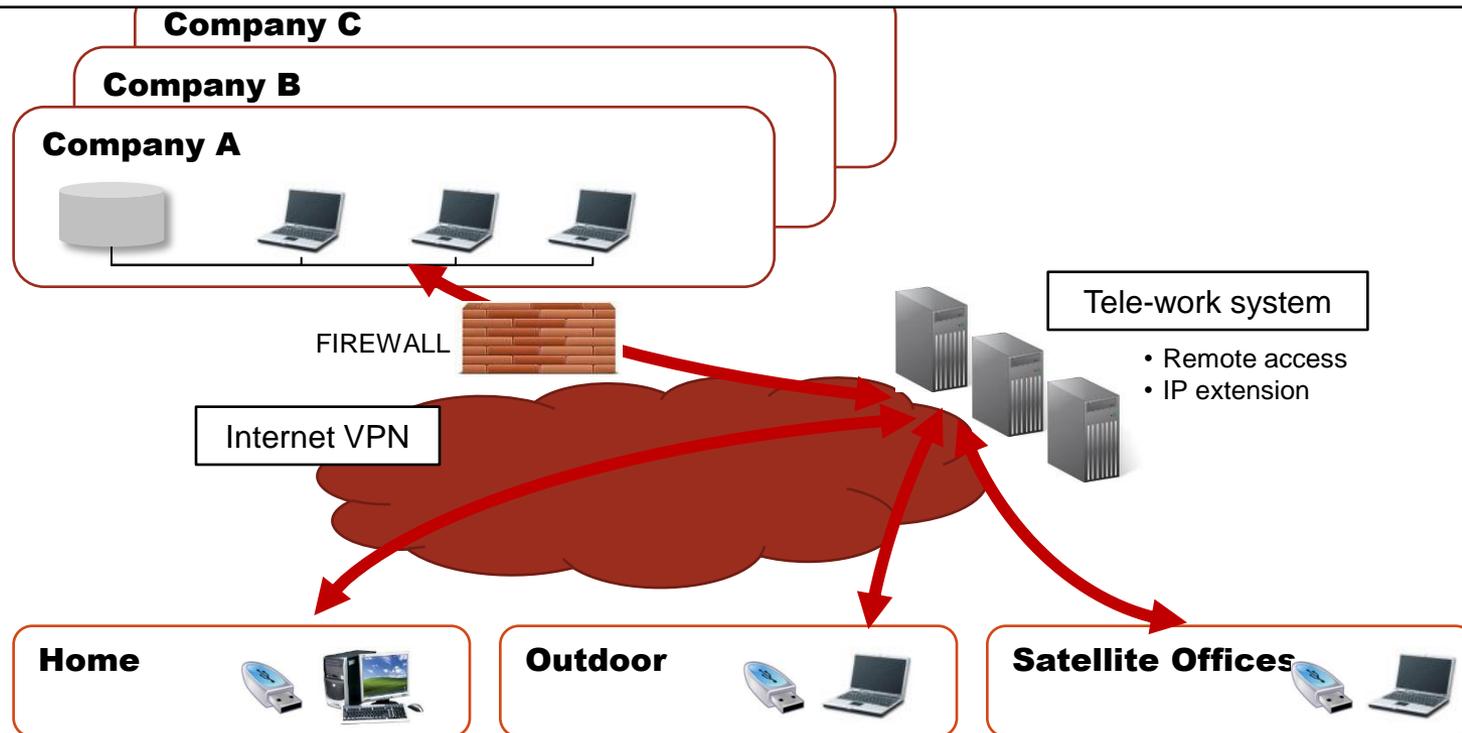
LESSONS learned – Electronic Health Record

- ✓ Electronic Health Record (EHR) system is a local-government-led field trial to safely and smoothly share/distribute medical and health information owned by different entities.
- ✓ Examples include (1) Izumo-city (availability check and browsing medical histories by emergency crew), (2) Takamatsu-city (electronic prescription), (3) Onomichi-city (information sharing among different local facilities of medical and caring)
- ✓ The target is to diffuse the technological specification of EHR proven secure all over the nation as well as to verify effectiveness of ICT solutions.



LESSONS learned – Tele-work field trial

- ✓ Related Ministries implemented a field trial project on tele-work that involved local public and private sectors. The project entailed 1,248 participants from 298 entities in three-year term.
- ✓ The trial allowed every participant to access an in-office network through IP-VPN by simply attaching an authorizing clip drive (USB shaped) towards PCs at tele-work environments (home, outdoor, satellite offices).
- ✓ Findings, practical experience, and know-how can be widely shared for other companies that are interested in introduction of safe and easy-to-use Tele-work system.



LESSONS learned – Life-supporting robot technology

- ✓ Ministry of Internal Affairs and Communications will conduct research and development as well as field trial to introduce a life-supporting robot service around 2015.
- ✓ It is to provide elderly and handicapped people with easy-to-use, well-customized services such as healthcare and long-term care through accumulating and analyzing information surrounding them via network.

