POLICY AND PRACTICE FOR FOREIGN DOMESTIC CARING WORKERS IN ASIA

HOW TECHNOLOGY MAY HELP THE CARE GIVERS?
EXAMPLES OF GERONTECHNOLOGY DEVELOPMENT

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“3Gs” for the Aging Society

Gerontology (9,990,000), Geriatrics (14,700,000), Gerontechnology (74,800)

- First International Congress on Gerontechnology in 1991
- International Society for Gerontechnology (ISG) in 1997

“Designing technology and environment for independent living and social participation of older persons in good health, comfort and safety”

- Scope of gerontechnology (by ISG): health, housing, mobility, communication, leisure, and work.

How can technology help?

Wearable devices? Service robots? Smart living?
WHAT DO YOU SEE IN THESE PHOTOS?
Do you have smart living / IoT devices at home?

• CHT Smart Home
  • Service controller, gas detector, motion detector, smart plug, temperature/humidity sensor, smoke detector, reed switch, IP camera, remote controller

• Home Control & Connectivity - SERCOMM
Embracement between generations

Interactive Design for Older Adults
EXAMPLES OF GERONTECHNOLOGY DEVELOPMENT:
2015 IT Month Taipei Theme Pavilion

• 9-day exhibition (11/27~12/06), together with major IT companies HTC, Asus, Acer, CHT

PUT “SMART” INTO “LIVING”, “Io” INTO EXISTING “T”
Dementia Homecare Bar & Silver Bedroom

Memory Corridor

Intergeneration Fun

Rehabilitation Games

Silver Bedroom

Healthcare Cloud
**Silver Bedroom: WhizSEAT**

- The very comfortable *WhizSEAT* interacts with home appliances, such as the desk lamp.

- *WhizSEAT* also provides sitting posture checking, sitting record, reminder functions via a mobile phone App.
**Silver Bedroom: WhizCARPET**

- Pressure sensing *Whiz*CARPET in the form of “puzzle floor mat” can be freely assembled according to the layout of the bedroom.

- Localization, mobility monitoring, fall detection, wandering patterns…
**Silver Bedroom: WhizMAT/ Bedside handrail**

- Based on *WhizCARPET* units, *WhizMAT* provides lighting, heating and sends out a reminder to caregivers’ mobile phones when the older adult leaves bed.
- The light on top of the bedside handrail also works as a two-way service bell with to caregivers’ mobile phones.
**Silver Bedroom: WhizPAD/ WhizBED**

- The pressure-relief mattress *WhizPAD* is capable of sleep monitoring and environment control (light, curtain, air condition) for shaping a perfect sleep environment.
**REHABILITATION GAMES: TOIS.dementia**

- Tools for rehabilitation and non-pharmacological treatment are designed into simple games familiar to the older adult.
- Multi-sensory stimulation: light, sound, smell of the season…
- Personalization via a mobile device app
- Rehabilitation results can be posted on Facebook
Memory Corridor: Personalized Reminisce Therapy

- Using Mi-band as a personal tag
- When a demented older adult wearing a Mi Band enters the area, personalized reminisce photos and videos are automatic displayed on a TV screen.
INTERGENERATION FUN

The design of the toys emphasizes more on attracting children to play together with the older adults.

• Whiz TOY: One toy, many games…
HEALTH CLOUD: AUTOMATIC PILL DISPENSER

• Pills are collected and offered to the older adult according to prescription at exact amount and timing, to help with chronical disease management and to improve medication compliance.

• Doctor can adjust the prescription according medication history and vital sign measurements collected from the older adults via cloud service.
THANK YOU

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