Home care support for the elderly is crucial in Singapore. It is important to monitor the well-being of elderly and to allow family or social workers to be able to assist them.

P3R’s Tele-Care Monitoring System for aging-in-place consists of a low cost set-top box. This system tracks movement of elderly via webcam, provides video conferencing with family or social worker to monitor health of elderly as well as sends reminder for exercise, medication and visits to healthcare centers. It is also able to estimate risk of fall based on the video captured by webcam.

**Features**

- Personalised recommendation and schedule for favourite shows and online content
- Video analytics to estimate the risk of fall
- Enable social workers to perform remote interaction
- Video analytics to estimate the risk of fall
- Thin client and cloud-based application

Tele-conferencing, data sharing and reminder services are all merged into a TV to provide the basic features upon which an advanced tele-care platform for active aging-in-place is created.
**Applications**

- Elderly staying in ordinary homes or care-centers
- Remote Rehabilitation programme for the disabled

**Benefits**

- 24/7 automatic monitoring
- Reduce physical visits with video conferencing
- Remote monitoring and alert system for social workers
- Personalised content recommendation

Automated scheduling of personalised on-demand content around users' normal TV-watching schedule and calendar, combines with action analysis to help reinforce healthy habits and support hassle-free constant health monitoring.

**Institute for Infocomm Research**

Institute for Infocomm Research (I²R) 1 Fusionopolis Way, #21-01 Connexis (South Tower), Singapore 138632
Tel. (65) 6408 2000  Fax. (65) 6776 1378  Email: inddev@i2ra-star.edu.sg  www.i2ra-star.edu.sg