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Headline: Keeping tabs on seniors' safety

The increasing connectivity of physical objects is reshaping the way we live and work. The Straits Times looks at some A\*Star innovations which have made a positive impact.

## Keeping tabs on seniors' safety

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Agency for Science, Technology and Research

## Samantha Boh

It is not easy for those who care for It is not easy for those who care for the elderly – especially those who live alone – to keep track of whe-ther these senior citizens take their medication regularly or whe-ther they have suffered a fall at

To help them, researchers at the Agency for Science, Technology and Research (A\*Star) and the Sin-gapore Management University (SMU) have developed a monitoring system that tracks the home-alone senior's movements and behavioural patterns

The project, called ShineSeniors, comprises a system of in-fra-red sensors installed on the walls of each room and the front door of the senior's home.

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The system tells remote caregivers if the senior is moving around, said Dr Liang Huiguang from A\*Star's Institute of High Performance Computing, who co-leads the

research. With time, it can also trace a patwith time, it can also trace a pat-tern in their movements and, if this pattern changes – suggesting a health problem – it can alert care providers via a mobile app. The team also developed a medi-cine box with a sensor attached to

the cover, which sends a signal to caregivers when it is opened. This can be used to track when the senior takes his medicine. Lapses in medication compli-

ance are one of the main reasons for repeated hospital admissions, said Associate Professor Tan Hw-

said Associate Professor I an Hw-ee Pink from SMU, the other project co-leader. The system and the medicine box are being trialled in 50 homes, mostly two-room flats. The team intends to test it out in 50 more

intends to test it out in 50 more homes by October next year, when the project ends. The project is funded by the Min-istry of National Development and National Research Foundation.

Dr Eugene Shun from Eastern Health Alliance, a collaborator in the project, said the system allows volunteers and healthcare profes-sionals to respond early to the needs of the people they care for. Dr Shun added that remote sens-ing technologies like this also al.

ing technologies like this also allow people to age in their own homes while being watched over.

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Madam Chan Soh Mui, 82, with a medicine box that has a sensor on its cover to detect when she opens it. Passive infra-red sensors were also installed on the walls to track her movements. PHOTO: ALICIA CHAN FOR THE STRAITS TIMES

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