

# CASE STUDY (1): ELDERLY RESIDENT LIVING (CHAI CHEE - SINGAPORE)

## THE CHALLENGES

- Falling at night or when no one is at home.
- Unable to receive immediate medical attention as there are no personnel emergency response system (PERS) in place, unable to call out for help.
- Reluctance to own a mobile handset for emergency purposes when travelling out of house.

## SOLUTION

- Deploy Essence Smart Care IOT solution thorough out Elderly's person residence.
- Install PERS (Personnel emergency response system) inside toilet & bath area.
- Install Essence Smart Home System for Proactive detection (smoke sensor & water overflow sensor).
- Install MDsense wired-less radar fall sensor at vulnerable location.
- Wearable GPRS tracking device (Going Outdoor).

### For More Information

**Contact Person:** Ms. Anh  
(Granddaughter)

**Email:** anh.yuanying@gmail.com

## THE SITUATION

It is worrying to know that the number of elderly persons living alone in Singapore is on the rise. The department of statistics estimates that 83,000 elderly persons will be living alone by 2030 as compared to the 47,000 seniors aged 65 and above in 2016.

With their children at work and grandchildren in school, our elderly parents and grandparents are alone at home during the day. Some of them prefer to live alone and do not want to stay with their children or even consider going to a nursing home. Family members will not be able to monitor and take care of their elderlies 24/7. Installation of video cameras at home invades their privacy and does not alert the family members when there is a mishap.

Madam Chua, who is 92 this year has been living together with her elder son. Her son and daughter-in-law work in the day and Madam Chua is usually left alone at home when they are out for work. Madam Chua's children have tried to employ domestic helper to assist and accompany her but the several attempts did not work out well.

In the last 2 months, there were already 2 cases of Madam Chua falling at home. The first fall happened in the middle of the night when she was trying to visit the restroom. The recent incident happened in the day when she woke up from her nap and was trying to get out of bed to get a drink. For both falls, her son only get to know about what happened 6 to 8 hours after the fall. Her children are relieved that both falls were not serious but as her legs get weaker, chances of her falling again is higher and it is only a matter of time when the next fall will happen.

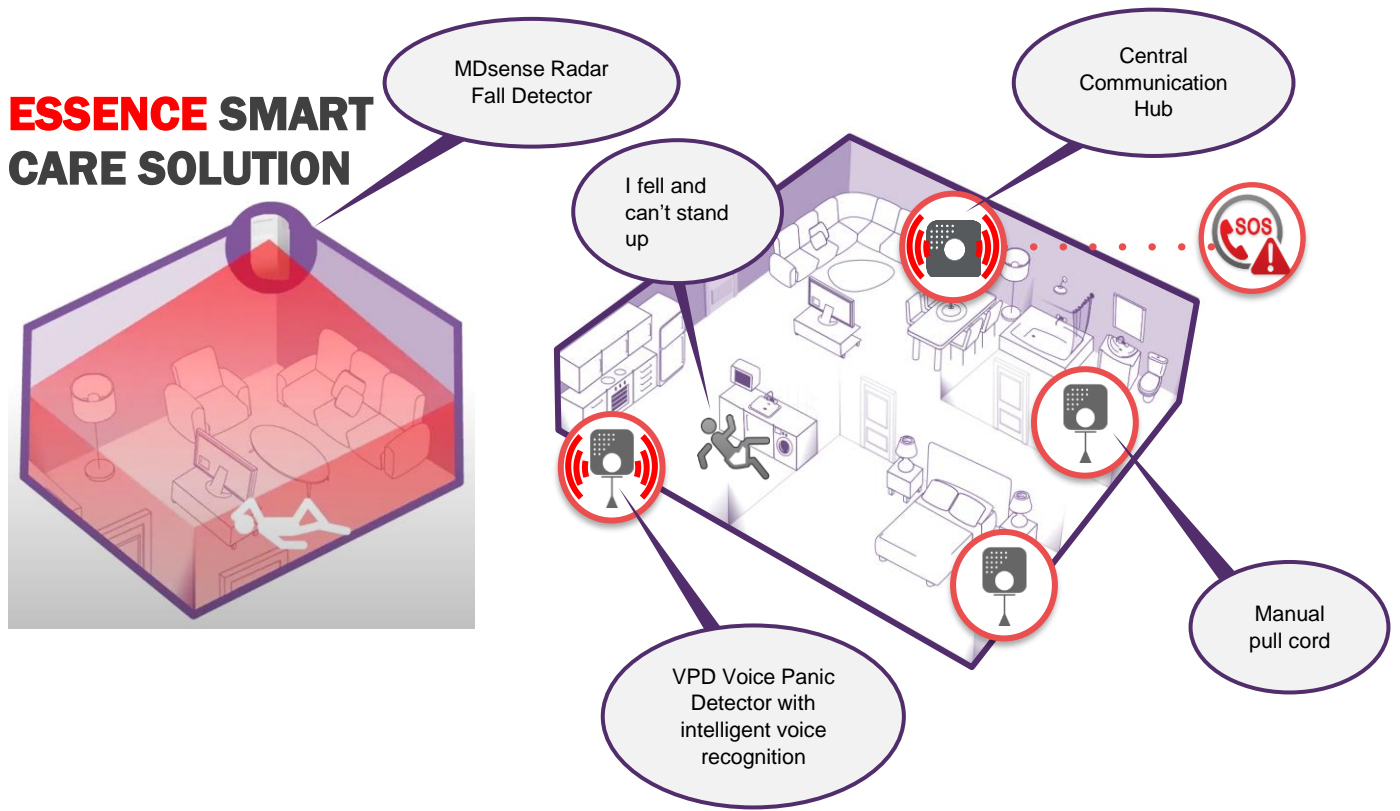
## BENEFITS

Since the introduction of Essence Smart Care into the Madam Chua's Home:

- Madam Chua's children can now focus better and work with a peace of mind knowing that the Personnel Emergency Response System (PERS) is there to ensure her safety.
- Madam Chua's children will be pre-empted to pay more attention to her when there is an abnormal change in her daily living and not wait till her health condition has worsened.
- Madam Chua can be safe and taken care of without compromising her privacy.



# ESSENCE SMART CARE SOLUTION



## Elderly Priority Powered By IOT (Assistive Technology, Seamless Monitoring)



-   
 GEO-FENCING
-   
 STEP COUNTER
-   
 FALL DETECTION
-   
 PANIC BUTTON
-   
 SAFETY
-   
 WELLNESS MONITORING
-   
 FAMILY AWARENESS