Seniors Lab Program
A TCS care and wellness solution for the elderly

About TCS Seniors Lab

The TCS Seniors Lab is a program which aims to leverage technology for the betterment and inclusivity for the aging community.

This program allows the elderly to live and age with confidence well into their golden years.

The program originated in Singapore with ShineSeniors - Smart Homes and Intelligent Neighbours to Enable Seniors - a research initiative by the SMU-TCS iCity Lab, a joint venture between Singapore Management University and Tata Consultancy Services.

With TCS' ongoing efforts towards creating an integrated care platform, the TCS Seniors Lab program or TCS SLAB was established.
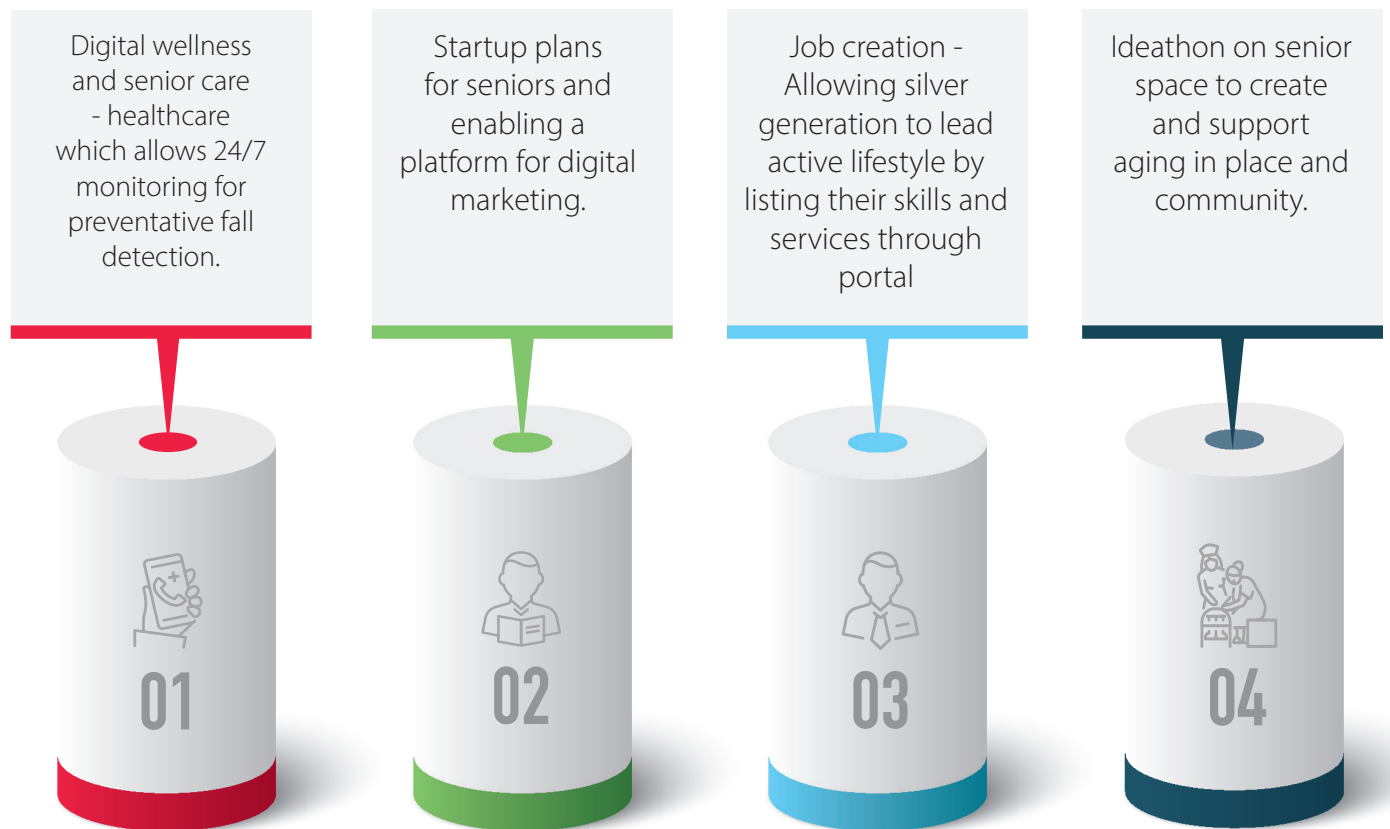
TCS SLAB was created to address challenges in healthcare cost and in creating an inclusive community for the silver generation to age with confidence and maintain an independent lifestyle.
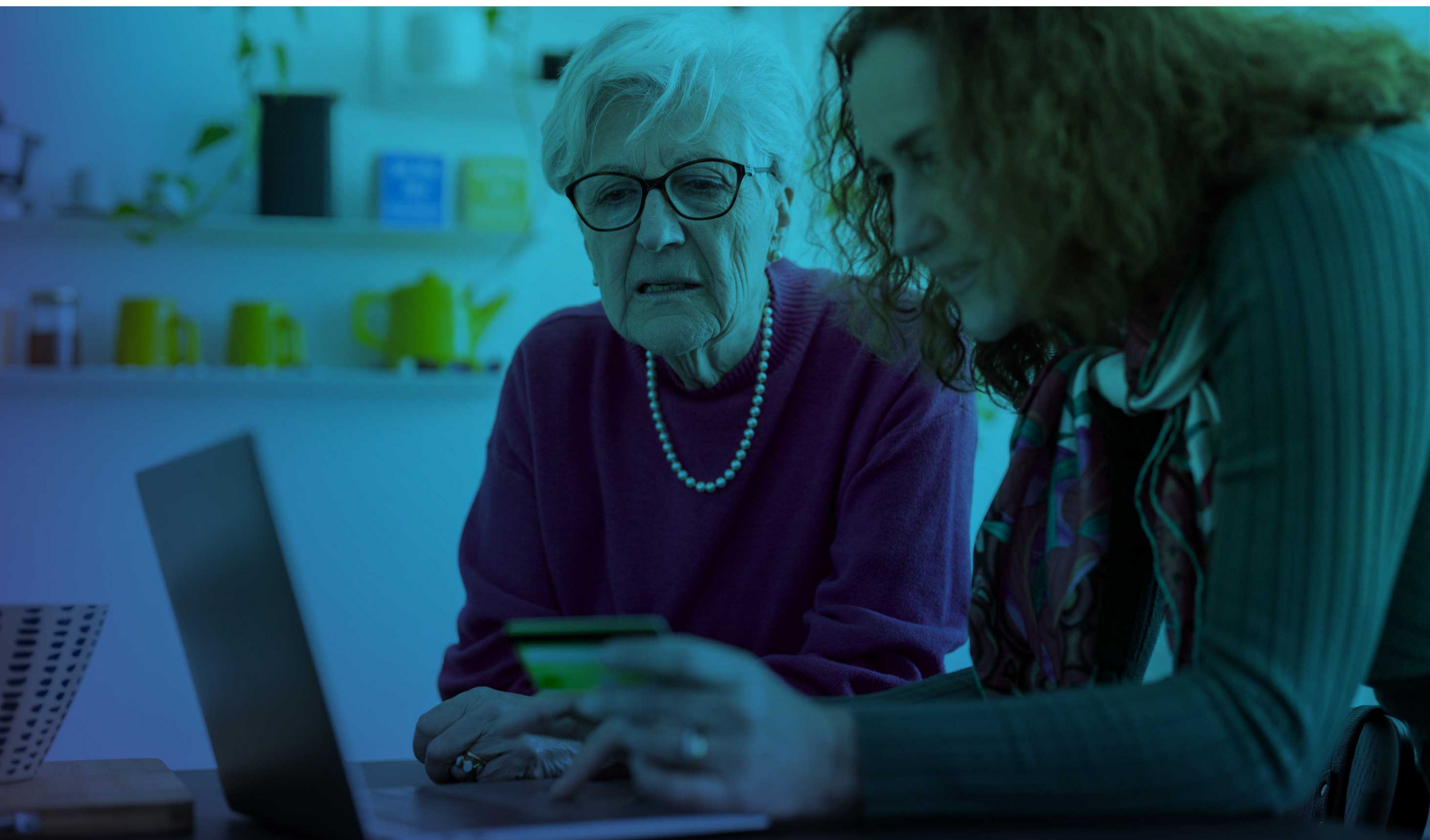
With TCS SLAB, we can help the elderly live safe, comfortable, and independent lives.

4 pillars of TCS Seniors Lab

Digital wellness and senior care - healthcare which allows 24/7 monitoring for preventative fall detection.

Startup plans for seniors and enabling a platform for digital marketing.

Job creation - Allowing silver generation to lead active lifestyle by listing their skills and services through portal

Ideathon on senior space to create and support aging in place and community.
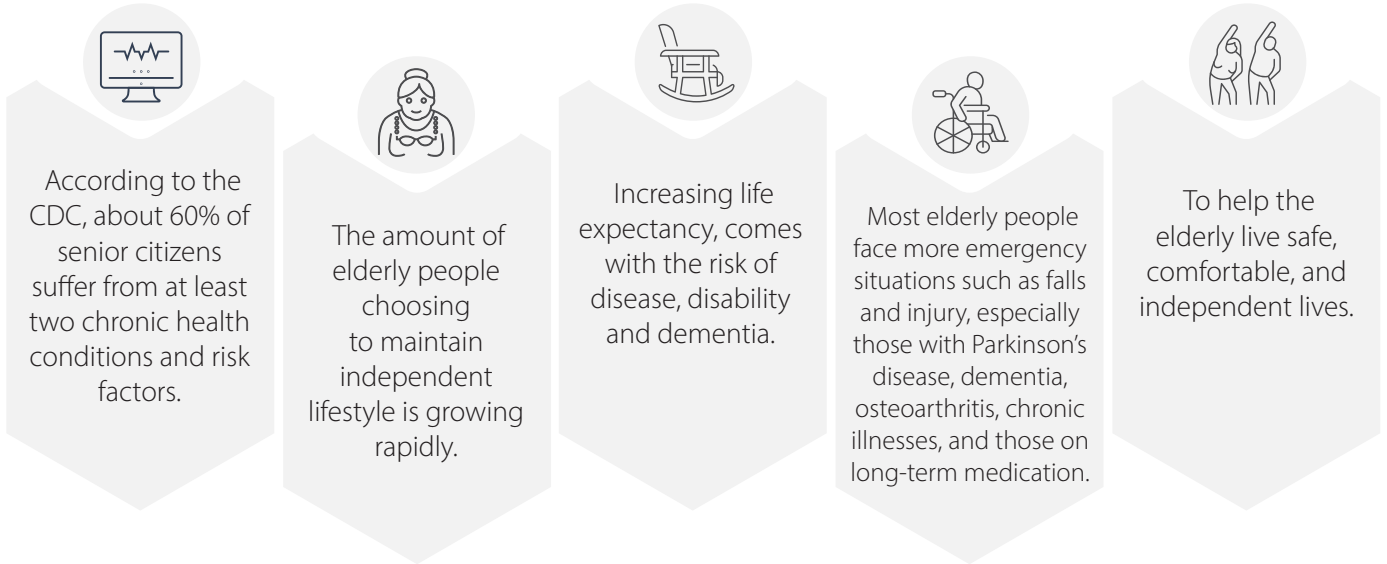
01

02

03

04

All these are offered through partnerships with NGOs and healthcare providers to build a more inclusive environment and allow the silver generation to age with care and confidence.
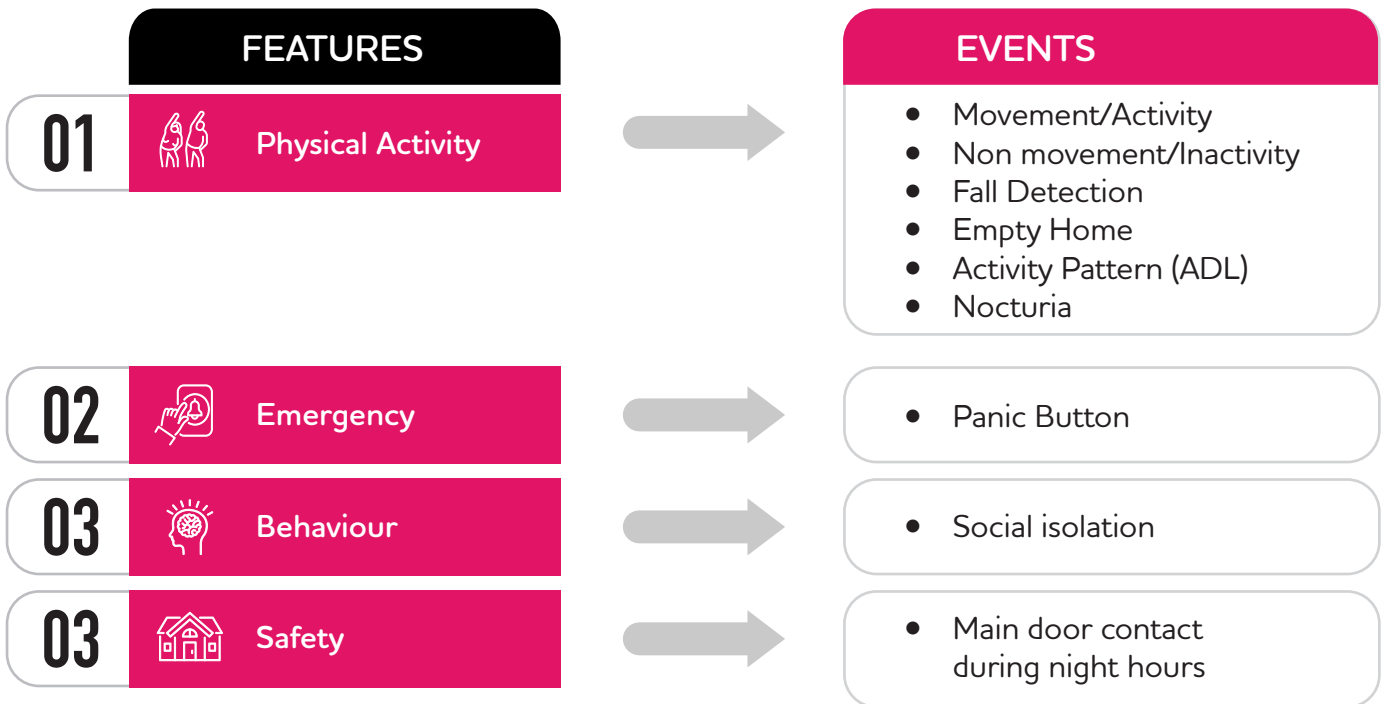
Senior care solution

Through IoT enabled sensors, the solution is designed to digitally report movement, activity, alerts for falls, social isolation and basic medically relevant parameters, while being non-intrusive and maintaining complete privacy.
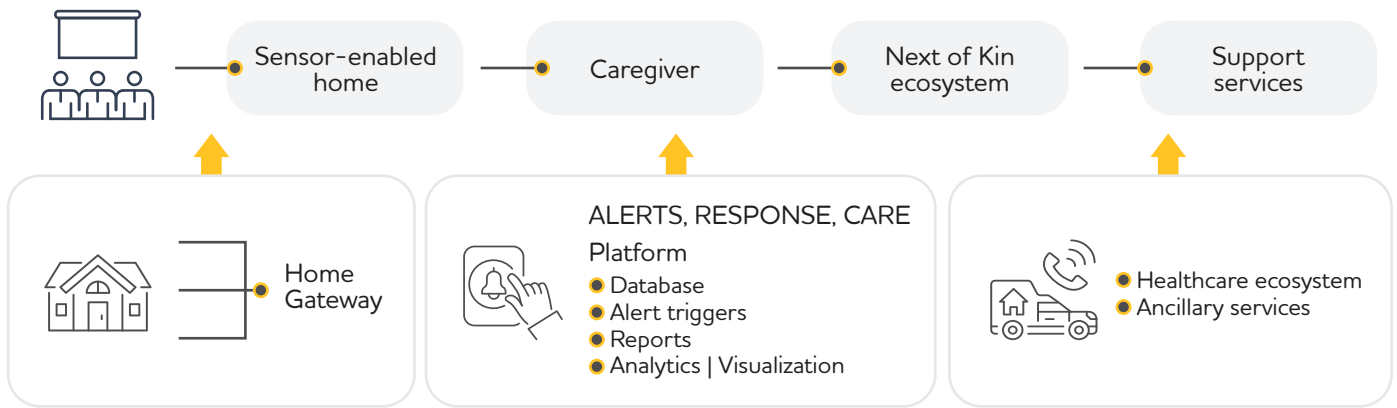
Why is this needed?

According to the CDC, about 60% of senior citizens suffer from at least two chronic health conditions and risk factors.

The amount of elderly people choosing to maintain independent lifestyle is growing rapidly.

Increasing life expectancy, comes with the risk of disease, disability and dementia.

Most elderly people face more emergency situations such as falls and injury, especially those with Parkinson's disease, dementia, osteoarthritis, chronic illnesses, and those on long-term medication.

To help the elderly live safe, comfortable, and independent lives.

Scope of the solution

FEATURES		EVENTS
01	Physical Activity	• Movement/Activity • Non movement/Inactivity • Fall Detection • Empty Home • Activity Pattern (ADL) • Nocturia
02	Emergency	• Panic Button
03	Behaviour	• Social isolation
03	Safety	• Main door contact during night hours

- Newer solution features can track Cardiopulmonary function- Heart rate and respiration rate
- Extended services include- emergency linkages & concierge services for the elderly such as ambulance service, companion, attendant, shopping, groceries, and bill payments.

TCS Seniors Lab platform & services integration

Sensor-enabled home → Caregiver → Next of Kin ecosystem → Support services

Home Gateway

ALERTS, RESPONSE, CARE Platform
- Database
- Alert triggers
- Reports
- Analytics | Visualization

- Healthcare ecosystem
- Ancillary services

Key Attributes

- IOT sensor/radar enabled
- Includes: Movement/Non movement, activity, falls & CP function
- Customizable
- SLA and metric based
- Wearable and device
- integration capability
- Front end applications:
  - Carer
  - Resident
  - Service providers

How does it work?

The program enrols seniors and presents mobile and desktop applications for generating alerts to caregivers and family members/next of kin of the enrolled seniors.

It enables generation of automated reports on activities of daily living, with requisite customization.

Integration with wearables & devices and support and concierge service providers are available for holistic care and management

Contact

For more information on TCS Seniors Lab, please email apac.marketing@tcs.com

About Tata Consultancy Services (TCS)

Tata Consultancy Services is a purpose-led transformation partner to many of the world's largest businesses. For more than 50 years, it has been collaborating with clients and communities to build a greater future through innovation and collective knowledge. TCS offers an integrated portfolio of cognitive powered business, technology, and engineering services and solutions. The company's 469,000 consultants in 46 countries help empower individuals, enterprises, and societies to build on belief.

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