

## SCG ELDERCARE SOLUTION

### Design solution for elderly living...

For safety, comfort  
and sustainable  
well-being

Age actively,  
free from  
falling concern

Stay independent  
with self-esteem

Live agelessly,  
maintaining preferred  
lifestyle



From **SCG** experts



#### SCG HOME SOLUTION

Ratchaphruek, Minburi, Nawamin, Romklao,  
Chiang Mai (Juvenile Court Intersection),  
Chiang Mai (Yaek Ton Pao),  
Phuket (Bypass Road), Prajuab Kirikhan,  
Nakhon Ratchasima (Yaek Pak Thong Chai),  
Pak Chong, Cha-Am, Hatyai



#### SCG EXPERIENCE

Praditmanutham Road (Ekamai-Ramindra)



#### COTTO STUDIO

Don Muang



## The century of the elderly

**began with the arrival of the new millennium (2001–2100.)**

**The United Nations has forecasted that the global demographic profile is shifting towards that of an ageing society, specifically Thailand is expected to become an “Aged Society” within 2021.**

Being aware of this global ageing population trend, SCG has been developing innovative all-inclusive solutions to meet the requirements of elderly residents. Being aware that ageing leads to changes in physical, mental, and social aspects of life, which affect elderly living capability including those of family members and acquaintances, we focus on the criteria of safety, comfort, and sustainable wellbeing.



## We truly care and innovate

SCG has researched and developed elderly knowledge through collaboration with gerontological professionals across various disciplines such as behavioral science, ergonomics, medical science, and architectural science, in combination with our expertise in residential design and lifestyle trends,

to develop living design products and services. Our professional teams, who truly understand each and every elderly need, offer design solutions for elderly residents which include high-quality products, residential design consultation services, and on-site installation.

# From knowledge to proficiency, we are at your service

We segment elderly into 3 groups based on their physical capabilities in performing activities.

## green I

Healthy elderly capable of normal daily living activities with future health risks without proper lifestyle adaptation.



## yellow I

Elderly that start to show signs of deteriorated physical capabilities, or have minor health problems, but are still independent. May some time require assistances or special equipment especially for outdoor activities.

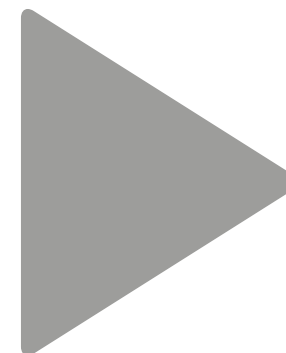


## orange I

Elderly having health problems that affect their daily living capabilities, requiring assistance from proper equipment and caretaker for some activities. Likely to spend most of their time indoor.



## 3 Dimensions of Expertise from SCG



### Design and Consultation Services

Our experts can detect and analyze differences in individual elderly physical capabilities to effectively provide appropriate consultation, design, and recommend home products and services.



### High-Standard Products

Our products are developed into a system that is appropriately selected to accommodate elderly changes of both mental and physical aspects.



### On-Site Installation Services

Our professional teams provide on-site survey as well as appropriate installation services to ensure the highest usability and accessibility for individual elderly resident. Our installation services are guaranteed.



Experience the highest level of confidence with products whose standard have been **certified by the Construction Institute of Thailand under the Ministry of Industry.**



# FREEDOM TO LIVE

Freedom to live, reduce and defy your age limitations

## “Age is just a number”

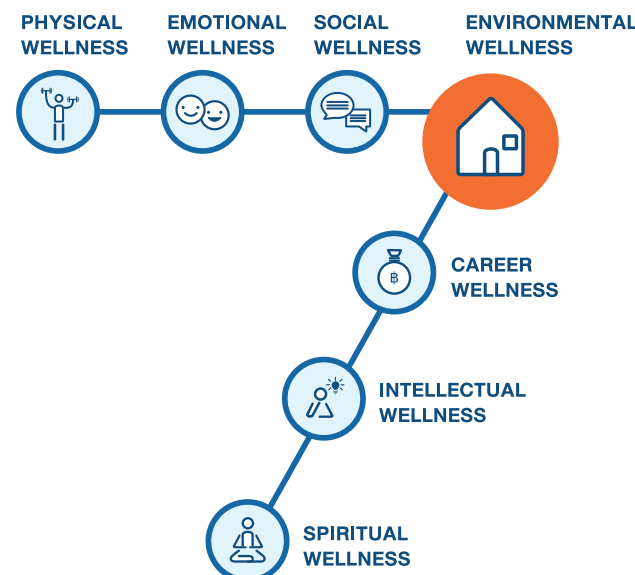
People of all ages prefer to maintain their lifestyle, but physical declines have proven unstoppable. The day may come when simple activities of daily living can put elderly residents at risks.



SCG Eldercare Solution cares for all lifestyles, especially elderly living. Presenting the concept of ‘Ageless Living’, emphasizing on designs where the elderly can live happily and independently among family members. Obstacles from physical deterioration are reduced by adhering to 5 design principles, which focus on safety and physical fit especially at the interior space where most activities take place.

## AGELESS LIVING CONCEPT

7 Keys to Elderly Life Fulfilment



## Design Principles

How To...  
for an Elderly-Friendly  
Design



### Safety and Security

Elderly with walking or movement difficulties may also have postural stability problems leading to falls. Our first design principle addresses this basic need, by concerning with movement from one location to another and focusing on accident reduction and prevention at 3 levels:

- 1) lower the risk of accident
- 2) mitigate the severity in case of accidents
- 3) make emergency assistance readily available to immediately contain the damage.



### Ease of Use

Home equipment should be convenient, simple to use, designed to minimize nonessential physical effort, and easily understandable.



### Eligible Design

Designs must be suitable with physical condition and limitation, including the issues of reachability and versatility of use such as opting for movable furniture to increase flexibility of space.



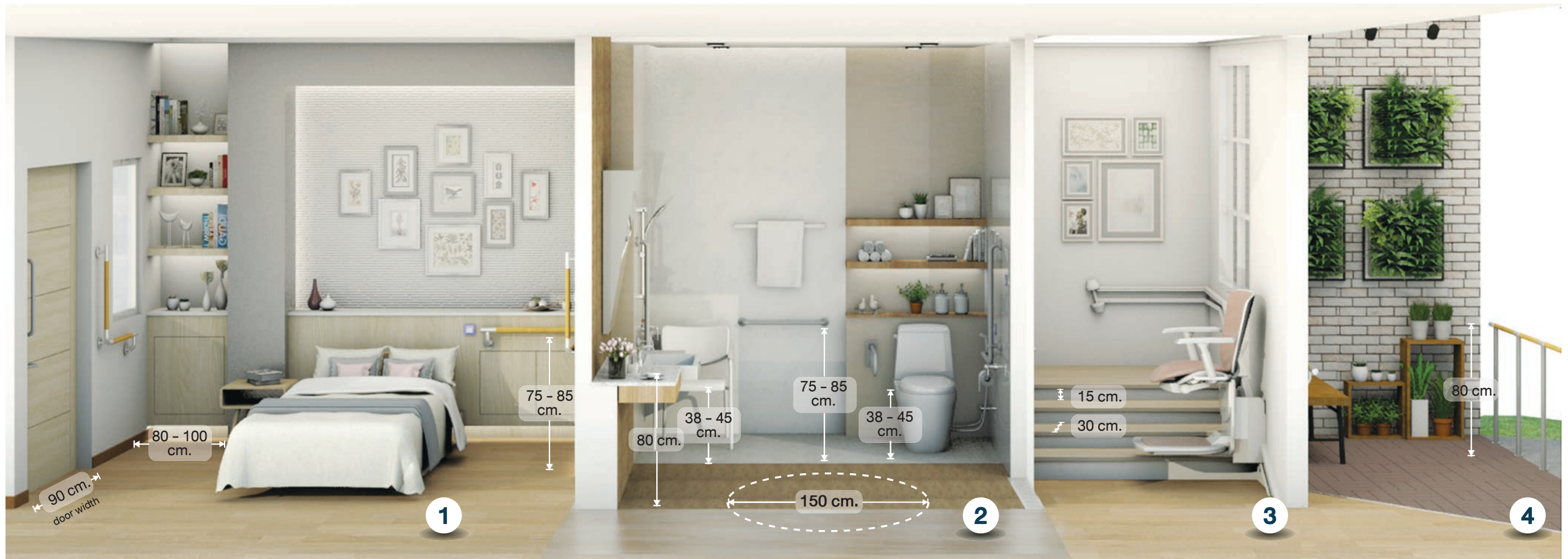
### Stimulation

The elders' vitality can be boosted by favorable physical environment, such as good lighting system, green space, and the installation of walking equipment, which allows for greater mobility and a sense of confidence as they are capable of performing different activities by themselves.



### Accessibility & Reachability

Space design shall address real-life usage and functionality. Equipment installation must facilitate users' mobility, ergonomics, reachability, and ease of walking in order to maximize independent living for the elderly residents.



# SPACE DESIGN SOLUTION

Decline in physical function poses obstacles to the elderly; some may require assistance in activities of daily living such as toileting, bathing, walking and transferring.

Designing living spaces for elderly resident requires great attention to detail: structure, home decoration, and placement and installation of equipment required to support 4 physically functional declines.



Sight



Movement



Hearing

Hormones  
and temper  
imbalances

Appropriate home modifications for elderly will create a livable, comfortable, and functional space, which should include concerns about accident reduction and prevention, safety, and well-being enhancement.





# 1 Bed room

## Handrail

Have handrail installed to help support the elders to get out of bed as they often experience morning stiffness and joint pain which may limit mobility.

## Intelligent Night Light

Helps illuminate the path from the bed to the bathroom during nighttime. Lighting up automatically with extremely accurate motion sensors when elderly resident steps down from the bed, it will also slowly dim itself off once the person returns to bed. Caregivers can keep track of safety via mobile application which allows you to access usage history through smart phones.

## Bed for Elderly

Select bed of suitable size that is height adjustable and equipped with rails to help elderly residents get up by themselves. Mattress should be compatible with individual physical condition—neither too firm nor too soft.

## Door

Use soft-closed sliding doors with simple lock requiring low physical effort. Doors must be top railed without doorsill, which can cause tripping and result in fall. The door width shall also accommodate users with walking stick or wheelchair to prevent injury or accident.

## Shock Absorption Floor

Mitigate the severity of fall accidents. Tested and certified by a leading institution, the floor provides shock absorption when walking, in which “the soft and flexible floor surface has only minimal impact on gait parameters and **does not affect walking speed nor balance** of the elderly.”\*

\*Research findings presented at the 2017 Academic Conference, Faculty of Associated Medical Sciences, Chiang Mai University. [www.ams.cmu.ac.th/pt](http://www.ams.cmu.ac.th/pt)

# Bath room 2



## Washbasin

Designed to take the full weight of an adult to help support elder to stand up; and is securely fixed at an appropriate height to prevent painful bending.



## Sanitary ware

Installed at appropriate height to facilitate standing and sitting.



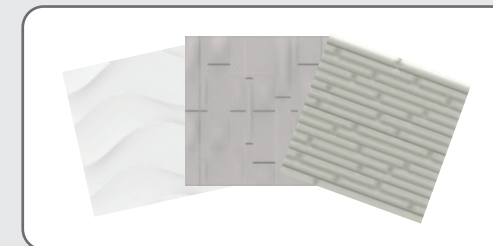
## Handrails

Helps support elder to sit and stand up; shall be installed next to sanitary ware, washbasin, and shower seat.



## Shower seat

Helps prevent accident from any postural imbalances while showering and also makes it more convenient for caregiver; avoid having steps and obstructions in the restroom floor to prevent tripping.



## VOCs Absorption Wall Covering

Help reduce unpleasant odor, protect against volatile hazardous substances causing health problems, and help to balance indoor humidity. It can be installed in different areas, such as bedroom and dining room. When installed in bathroom, it helps the floor dry faster, increasing safety, and retarding mold proliferation.

# 3

## Staircases

### Handrails and stair lifts

Stairs navigation can be a challenge for the elderly, especially ones with joint problems. Have handrails installed on both sides of the staircases. If possible, elderly residents should avoid the stairs and live on the ground floor to prevent accident. Installing stair lifts can be another alternative.



# Outdoor areas 4



## Rubber Safety Surface Tiles

The flooring of external space should be shock-absorbent and anti-slip, with soft surface that enables elderly residents to walk comfortably and safely enjoy outdoor activities.



## Soft Deck

Increase safety while comfortably engaging in outdoor activities at the deck by using material with soft comfortable textures that are shock absorbent and slip-resistant, even when wet.



## Garden handrail

Install handrails in the exterior area of the house to prevent accident when performing outdoor activities. Any changes in level of floor surfaces shall be accommodated with a ramp (1:12 slope ratio), which provides convenient access to wheelchairs; handrails shall be installed to help support elder to walk throughout the garden.