

財團法人中技社 (CTCI Foundation)-我國長照產業的發展與挑戰

Horizontal and Vertical Integration of Long-Term Care Industries and Markets

長照服務產業的水平與垂直整合

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Meeting room 801, Evergreen International Convention Center

Sep 19, 2016 11:55-12:20 am

Post acute care : reversible (< 6 months)

Long term care : irreversible (≥ 6 months)

Activities of Daily Living include:

- Eating
- Bathing
- Dressing
- Toileting
- Transferring
- Climbing Stairs
- Walking
- Grooming
- Continenence



Eating



Bathing



Dressing



Transferring



Toileting



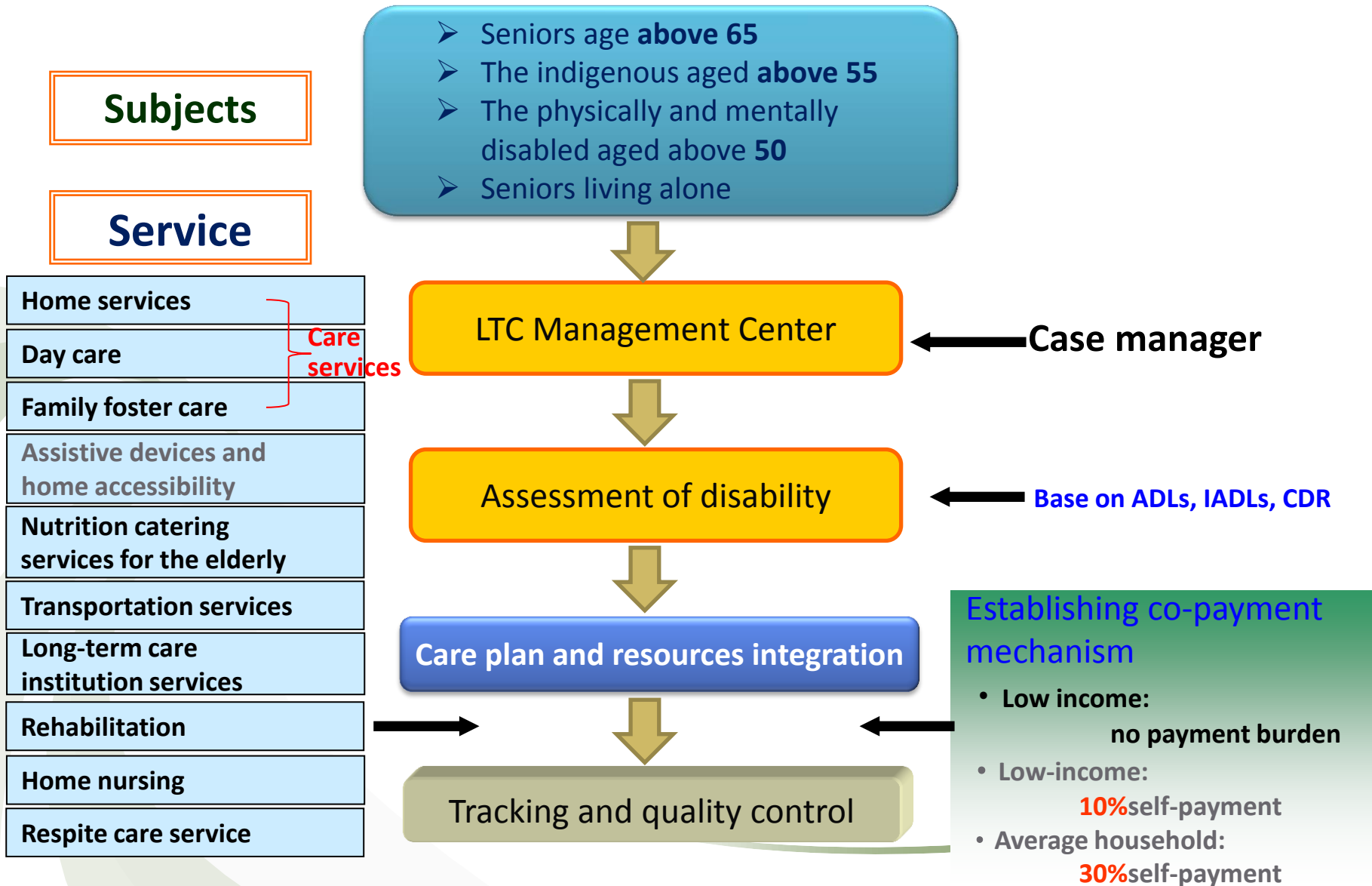
Walking or moving around

Instrumental Activities of Daily Living include:

- Shopping for Food or Clothing
- Driving or Using Transportation
- Cooking
- Managing Finances
- Doing Housework
- Telephoning
- Doing Laundry
- Managing Medications

National 10-year Long-term Care Plan (2008-2017)

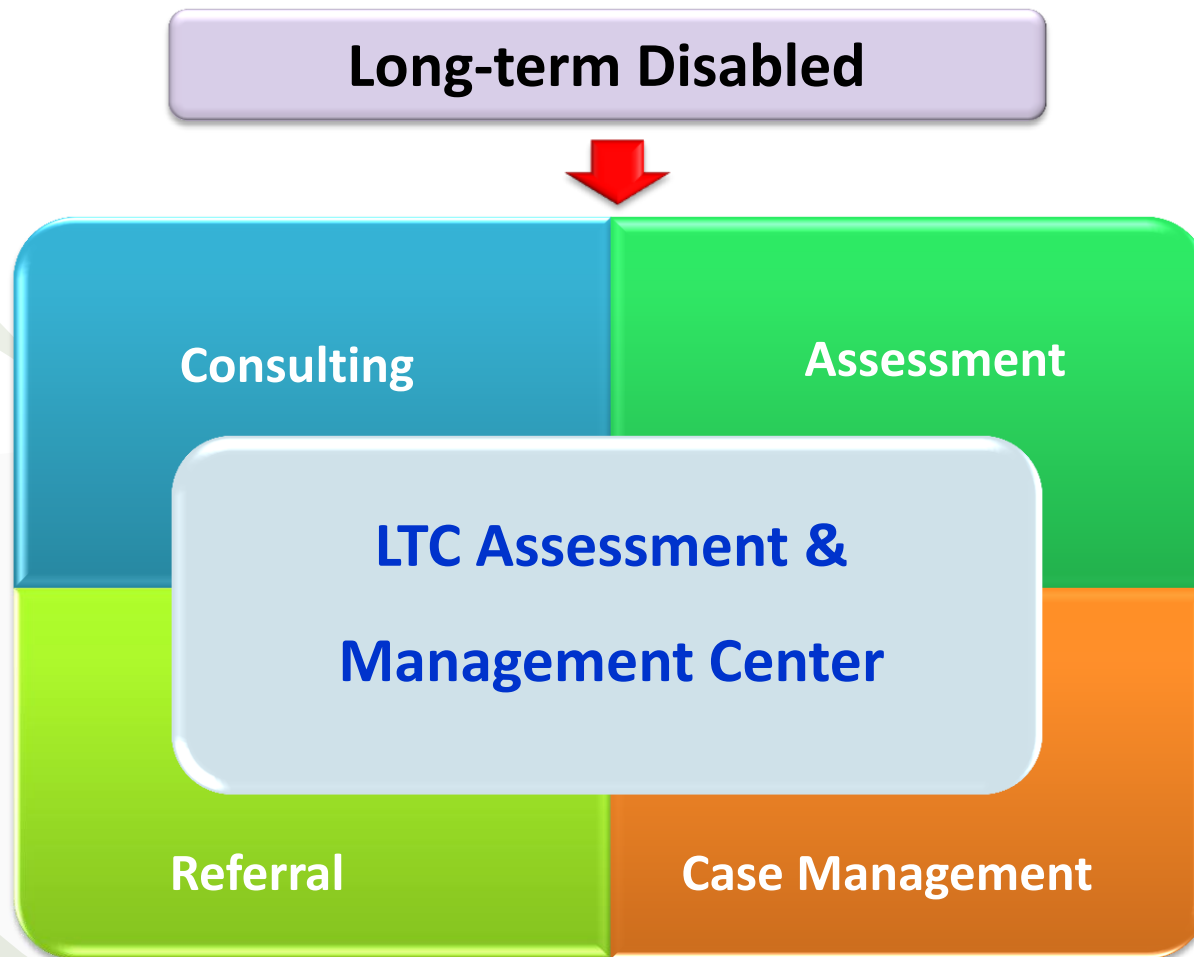
– a tax-funded system





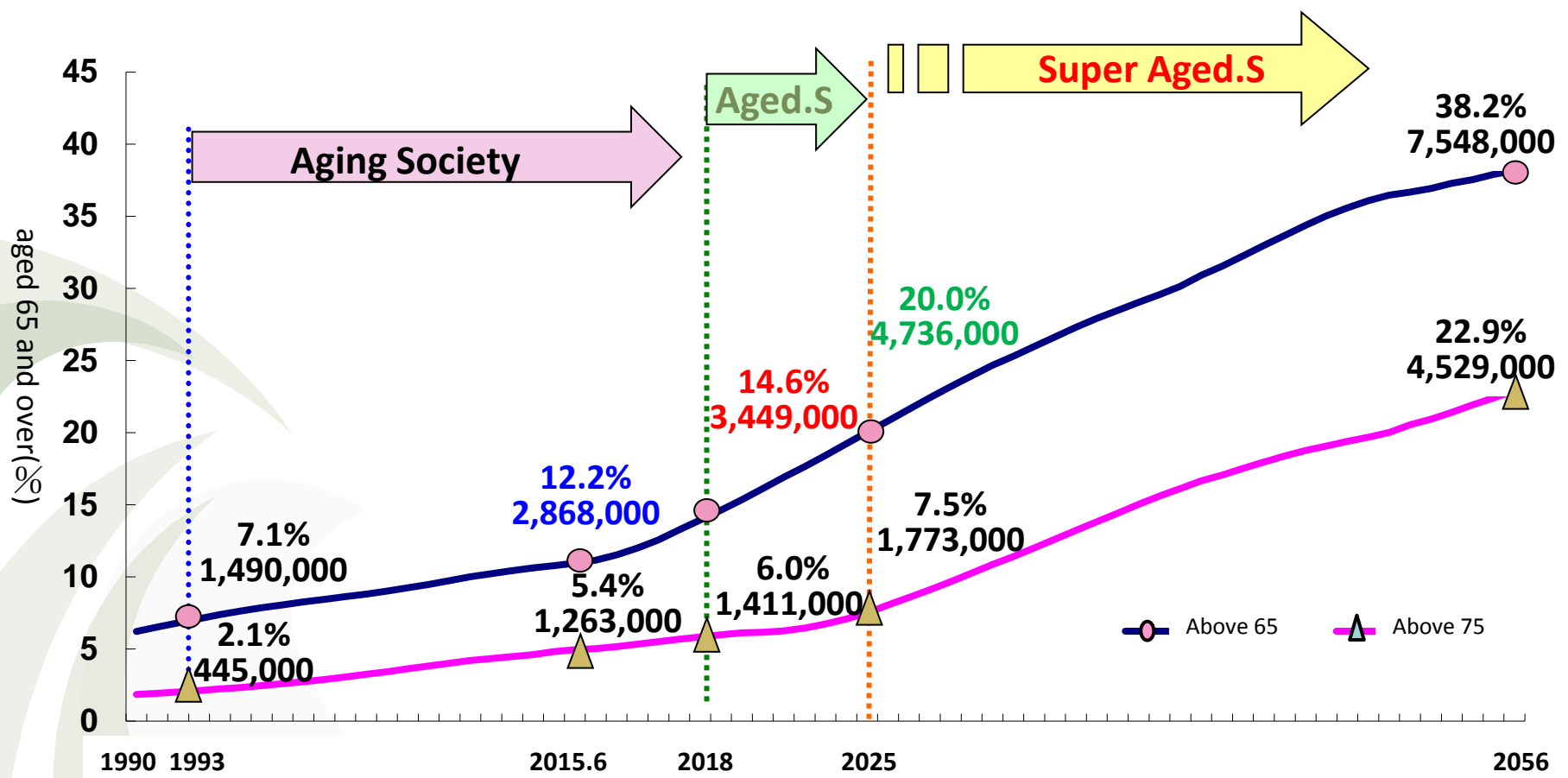
Long-term Care Plan -Single Entrance

LTC **management** center provides single entrance of **integrated** services such as counseling, assessment, referral and case management.





Aging population in Taiwan



Reference(data of population after 2016): Taiwan Population projection 2014-2060 (mid-projection), National Development Council.

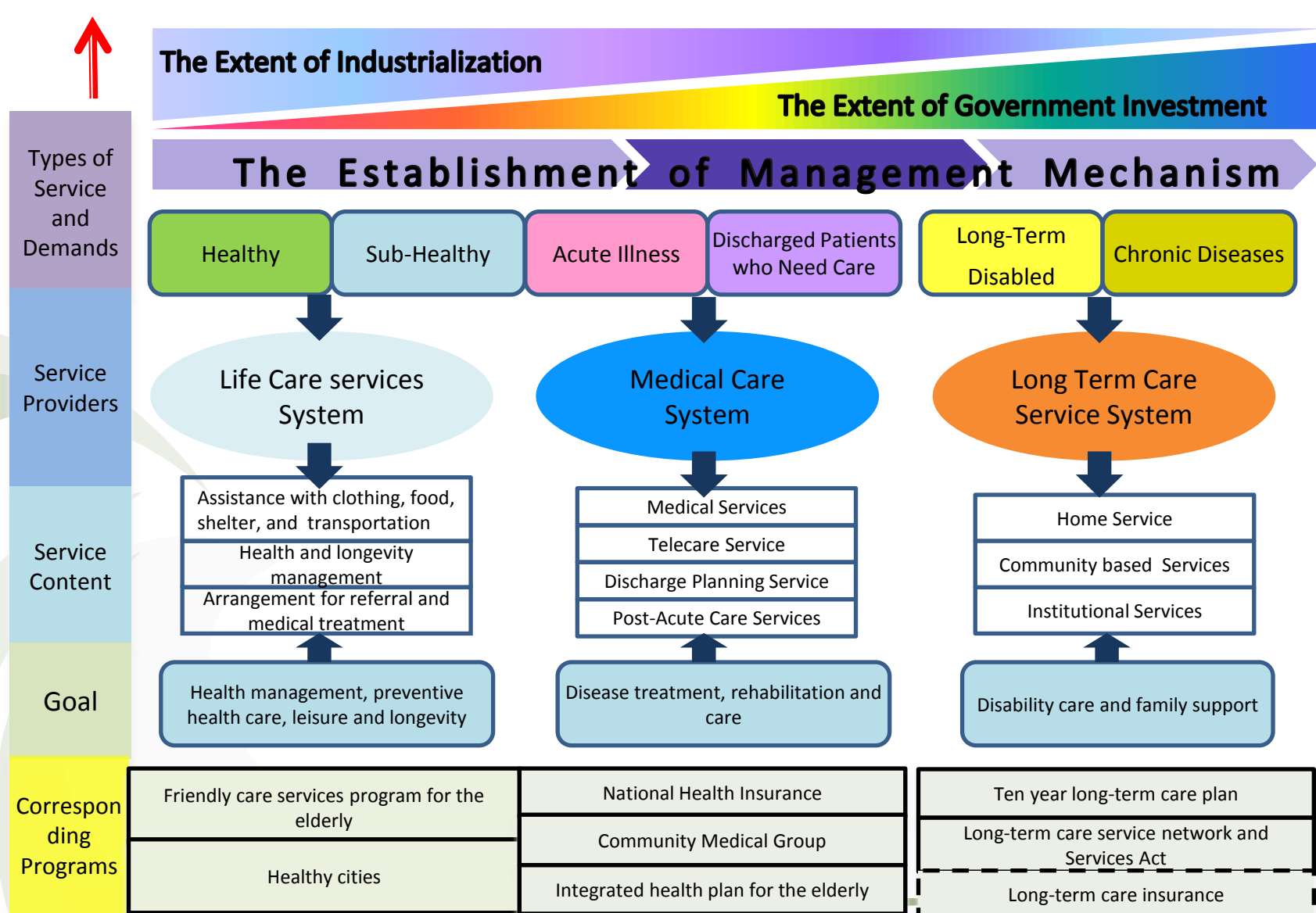
Population Projections for Taiwan (medium variant) : 2016-2026

(1,000 persons)

Age		2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Population Change:	
														2015 to 2025	2016 to 2026
Grand Total	Total	23,458	23,491	23,517	23,537	23,551	23,559	23,561	23,559	23,552	23,539	23,521	23,497	63	6
	Male	11,691	11,690	11,687	11,681	11,672	11,661	11,647	11,631	11,614	11,594	11,571	11,546	-120	-145
	Female	11,767	11,801	11,831	11,857	11,879	11,898	11,914	11,927	11,938	11,945	11,950	11,951	183	151
<15	Total	3,147	3,080	3,020	2,976	2,939	2,909	2,879	2,849	2,825	2,804	2,807	2,777	-340	-303
	Male	1,639	1,604	1,572	1,548	1,528	1,512	1,496	1,480	1,467	1,456	1,457	1,442	-182	-162
	女性	1,508	1,476	1,448	1,428	1,411	1,397	1,383	1,369	1,358	1,348	1,349	1,335	-158	-141
15-64	Total	17,369	17,296	17,218	17,116	16,994	16,846	16,690	16,545	16,378	16,197	15,989	15,810	-1,379	-1,486
	Male	8,690	8,651	8,609	8,556	8,494	8,418	8,339	8,265	8,180	8,089	7,983	7,893	-707	-759
	Total	8,679	8,645	8,609	8,559	8,500	8,428	8,352	8,280	8,197	8,108	8,006	7,918	-673	-727
≥65	Total	2,943	3,115	3,279	3,445	3,618	3,804	3,992	4,164	4,348	4,538	4,725	4,910	1,782	1,795
	Male	1,362	1,435	1,505	1,576	1,650	1,731	1,812	1,886	1,966	2,049	2,131	2,211	769	776
	Total	1,581	1,680	1,774	1,869	1,968	2,073	2,179	2,278	2,382	2,489	2,594	2,699	1,014	1,019

Source: National Development Council. Population Projections for R.O.C. (Taiwan): 2014-2060

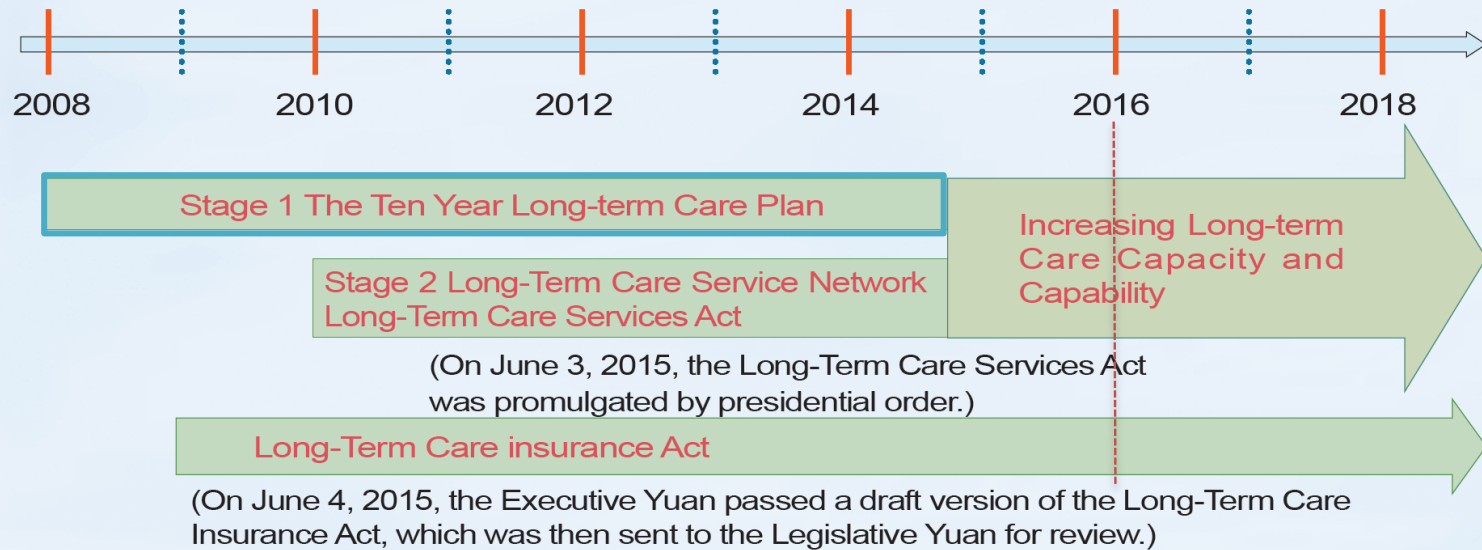
The demands of the Elderly and related policies and Services



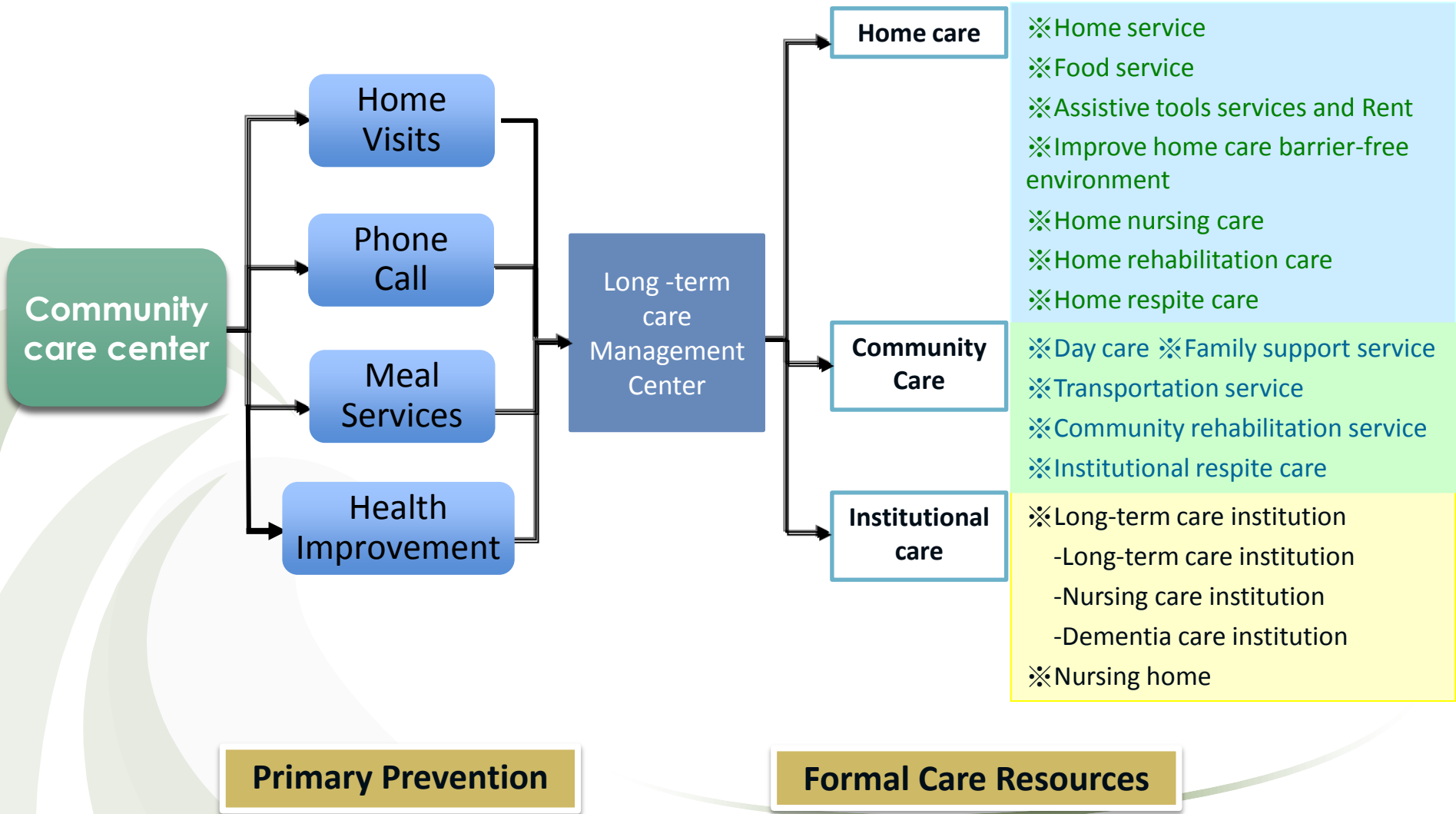
National 10-year Long-term Care Plan (2008-)

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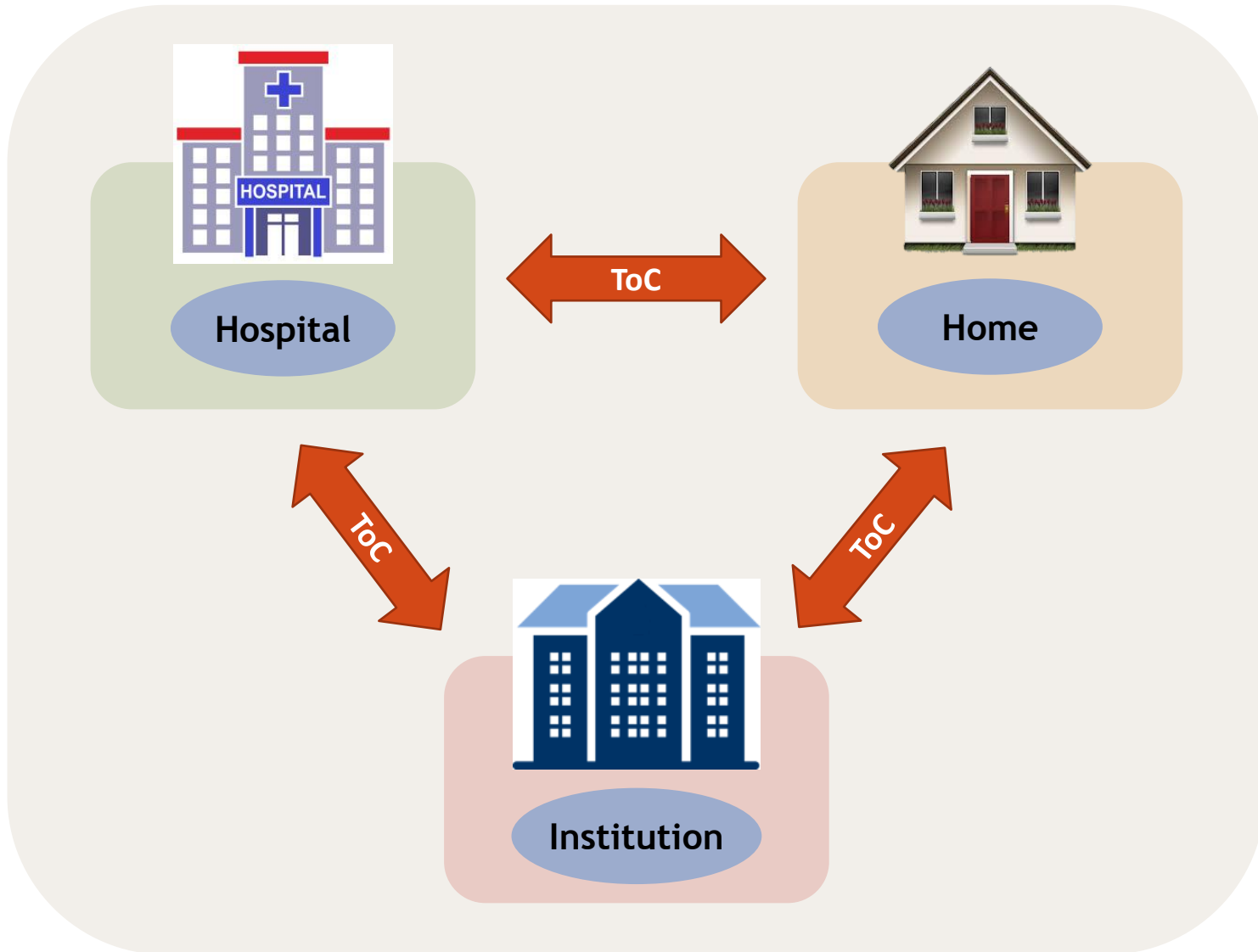
Long-Term Care Planning Chart



Community Care Station-Primary Prevention



Transitions of Care between Hospitals, Institutional Care, and Home



2008's planning (vertical integration!)

National Health Insurance

- Inpatient
- Emergency care
- Out patient care
- **Post acute care**



Long-Term Care Insurance

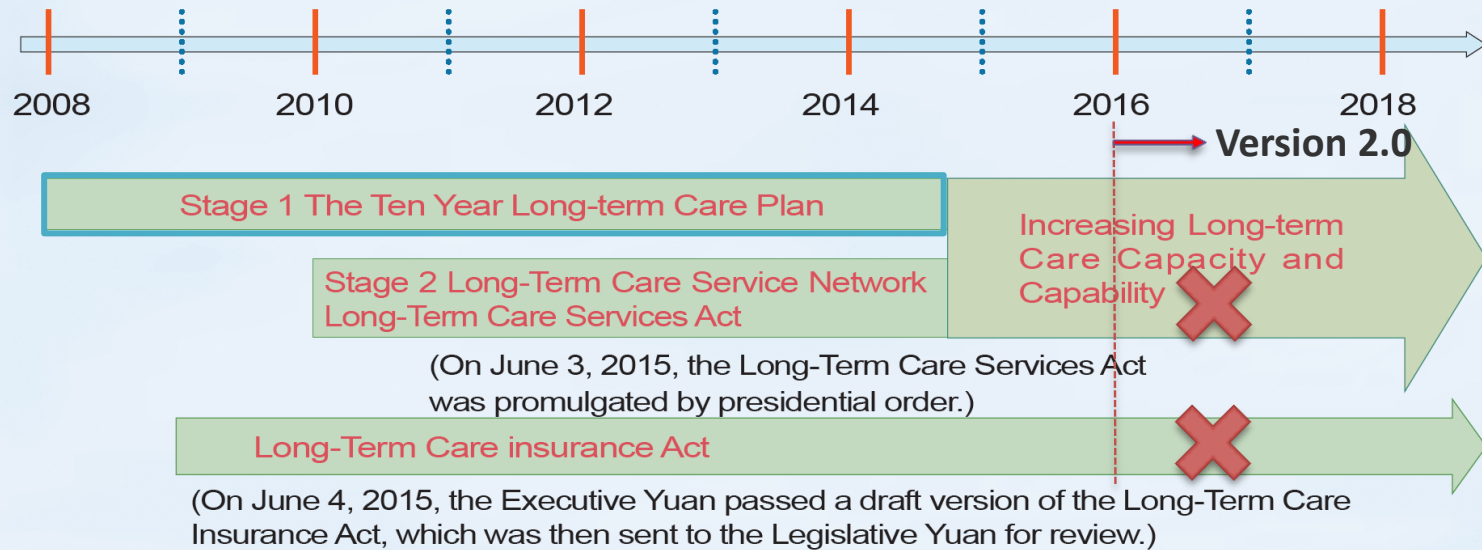
- Home care
- Community care
- Transportation services
- Elderly nutritious meals
- **Residential care**

- Combine NHI IC card and Long-Term Care Card
- Payment system- night plus 、 remote area plus 、 weekend plus 、 intensive care plus
- digitalized

National 10-year Long-term Care Plan (2008-2017)

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Long-Term Care Planning Chart



2016- Long-term Care Plan 2.0

- The new iteration was designed to have a more local-level focus, and is a step toward the government's ultimate goal of establishing a complete chain of care, from preventative health care to community-based support services and finally late-life hospice care.
- increase the total number of potential beneficiaries from about 511,000 to 738,000
- increase to the number of services offered under the program from the current 8 to 17, and the addition of four new categories of people who can benefit from the system
- thousands of localized long-term care stations
 - the number of services available at the nation's health care stations will increase, with new additions such as dementia care, physical therapy and preventative care
 - promoting innovative services such as dementia care, integrated services for remote indigenous communities, small-scale multifunctional services, and family caregiver support stations.
- The MOHW estimates the program will require initial funding of nearly NT\$20.80 billion (US\$640 million) in 2017, more than four times this year's budget of NT\$5.126 billion

source:

<http://taiwantoday.tw/ct.asp?xItem=246445&ctNode=2175>

http://www.ey.gov.tw/en/News_Content.aspx?n=1C6028CA080A27B3&s=C817FD7797C4D39E

Current Long Term Care Services in Taiwan

(410,000-510,000 old adults need LTC)

Model	Cases	Cost
Ten-Year Long-Term Care Plan	83,000 people	NTD 5.1 billion
Foreign workers	220,000 people	$22,700 * 12 \text{ months} * 220,000 = \text{NTD } 60 \text{ billion}$
Institutional care	100,000 people	$25,000 * 12 \text{ months} * 100,000 = \text{NTD } 30 \text{ billion}$ $30,000 * 12 \text{ months} * 100,000 = \text{NTD } 36 \text{ billion}$ $35,000 * 12 \text{ months} * 100,000 = \text{NTD } 42 \text{ billion}$
Domestic caregivers		$22,00 * 30\text{days} = \text{NTD } 66,000 \text{ per month}$
Family care		

2016's planning (vertical integration ?)

National Health Insurance

- Inpatient
- Emergency care
- Out patient care
- Post acute care

+

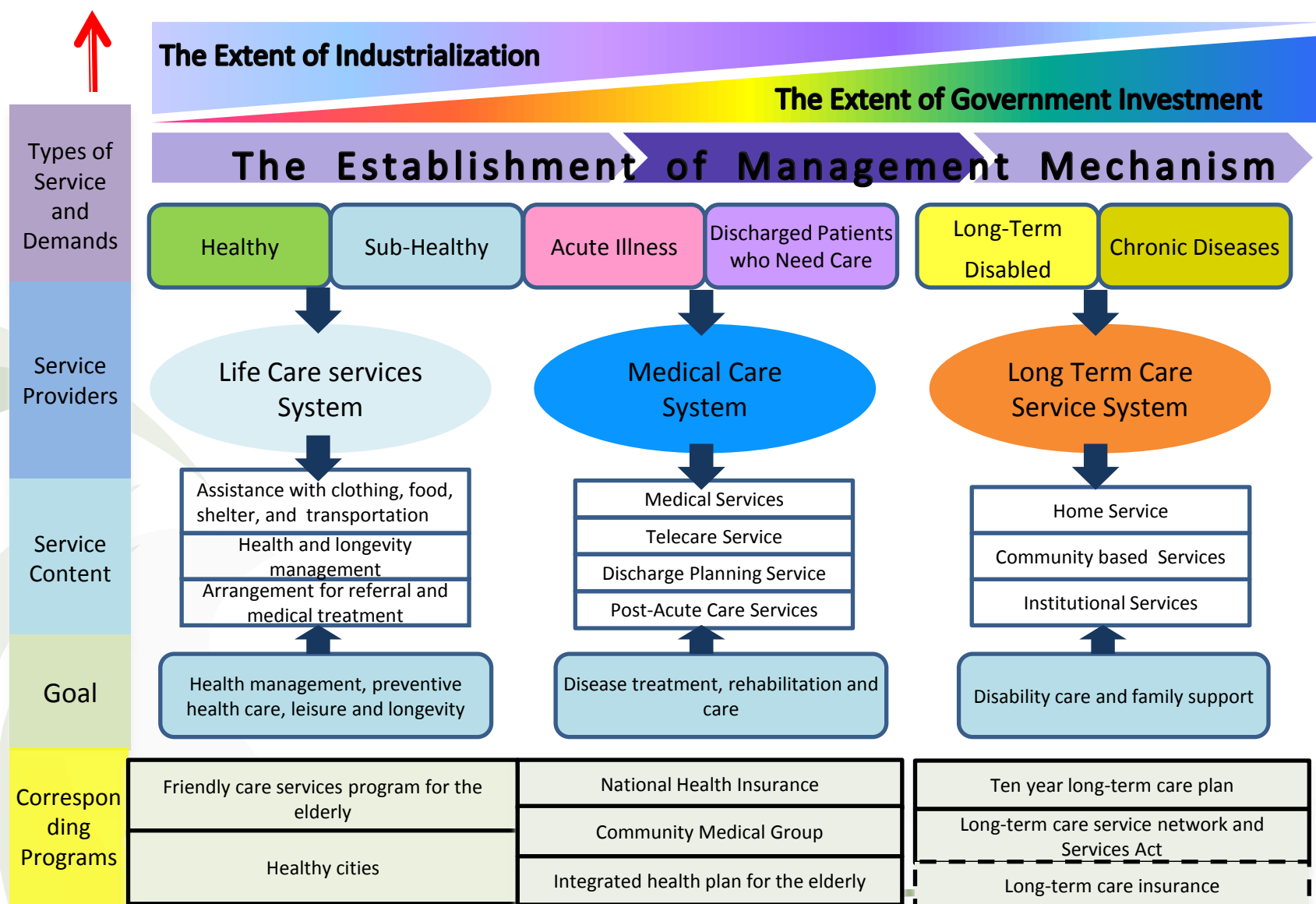
Long-term Care Plan 2.0

- Home care
- Community care
- Transportation services
- Elderly nutritious meals
- ~~Residential care~~

~~NTD 33 billion~~
NTD 17.8 billion

- ~~Combine NHI IC card and Long Term Care Card~~
- Payment system- night plus 、 remote area plus 、 weekend plus 、 intensive care plus ?
- Digitalized ?

The demands of the Elderly and related policies and Services





Healthy City

- “A healthy city is one that is continually **creating and improving** those **physical and social environments** and expanding those community resources which enable people to **mutually support each other** in performing **all the functions of life** and in developing to their maximum potential.”
- Physical environment- **Universal design**
- Social environment- Age friendly restaurant, transportation, hospital...etc.



UNIVERSAL DESIGN



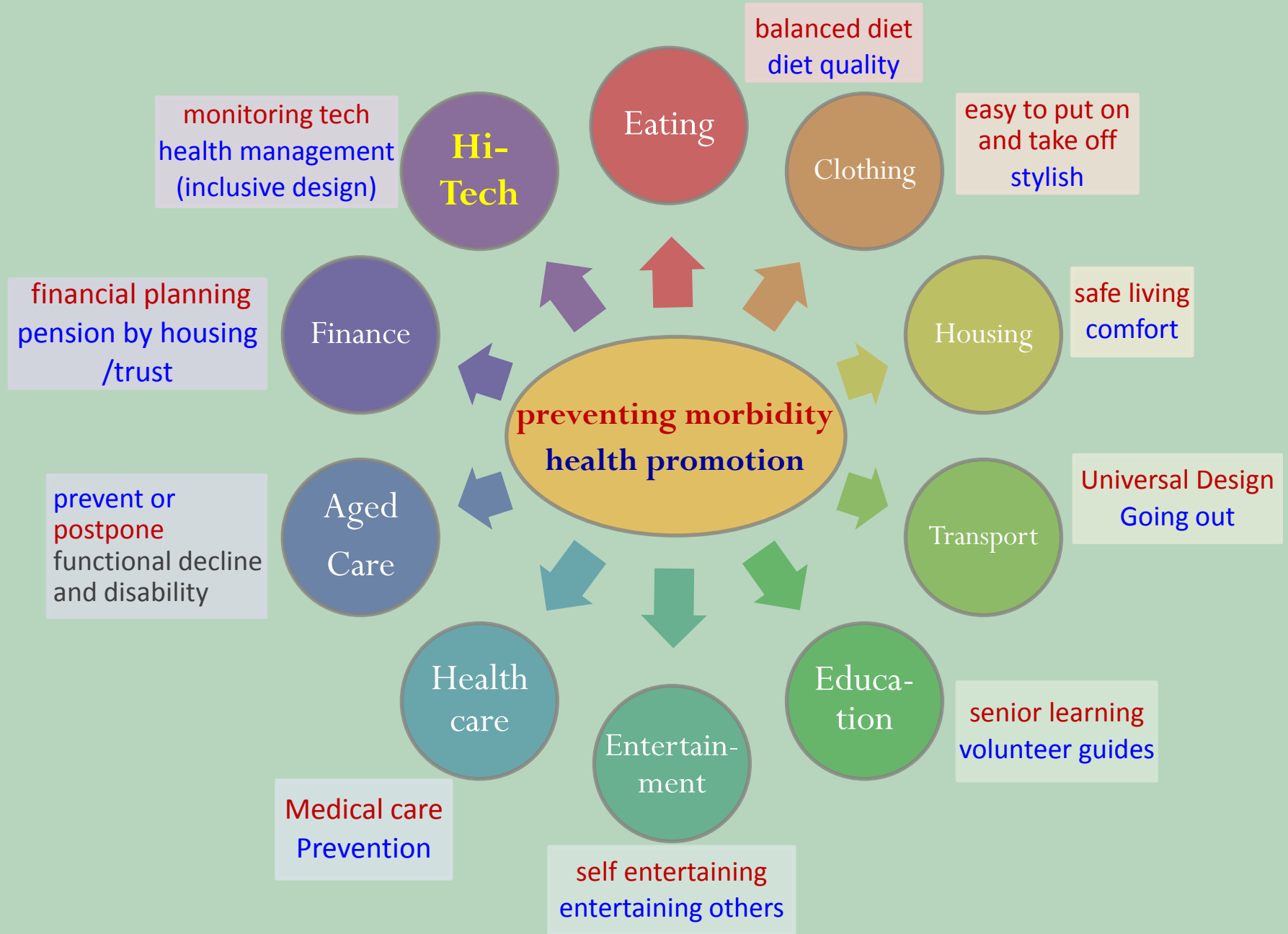
Rossetti researching a universal design closet at Hansen's home in Cincinnati.



UNIVERSAL DESIGN



Active aging for disable person - horizontal integration



Eating

- “Good Looking Easy Swallowing”
- These foods may need modification for individuals requiring thickened fluids

Soft Chopped Diet



Food must be moist throughout and cannot include any food that is hard, sticky or crunchy

Ground Diet



moist, soft-textured, and easily formed into a rounded ball in the mouth

Pureed Diet



Pureed food has no lumps and feels very soft and smooth in the mouth

Levels of thickened drinks/fluids

Mildly Thick Fluid - Level 150

- runs fast through the prongs of a fork, but leaves a mild coating on the prongs
- is *thicker than* naturally thick fluids such as fruit nectars, but for example, not as thick as a thickshake
- pours quickly from a cup but slower than regular, unmodified fluids
- may leave a coating film of residue in the cup after being poured
- usually drunk from a cup
- effort is required to drink this thickness via a standard bore straw – a wide straw is preferable.



Moderately Thick Fluid - Level 400

- slowly drips in dollops through the prongs of a fork
- is similar to the thickness of room temperature honey or a thickshake
- is cohesive and pours slowly
- may be drunk directly from a cup although fluid flows very slowly
- is difficult to drink using a straw, even if using a wide bore straw
- spooning this fluid into the mouth may be the best way of taking this fluid.



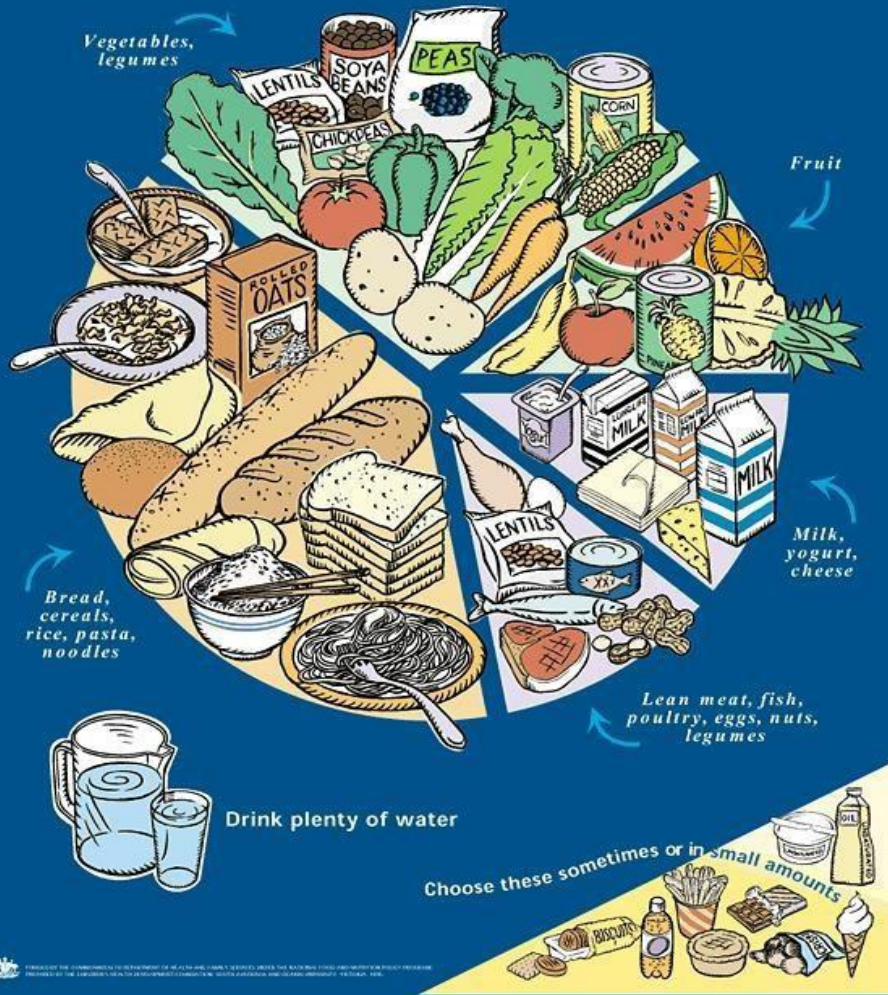
Extremely Thick Fluid - Level 900

- sits on and does not flow through the prongs of a fork
- is similar to the thickness of pudding or mousse
- is cohesive and holds its shape on a spoon
- it is *not* possible to pour this type of fluid from a cup into the mouth
- it is *not* possible to drink this thickness using a straw.
- spoon is the optimal method for taking this type of fluid.
- this fluid is *too thick* if the spoon is able to stand upright in it unsupported.



Source Dietitians Association of Australia and The Speech Pathology Association of Australia, 2007. 'Texture-modified foods and thickened fluids as used for individuals with dysphagia: Australia standardized labels and definitions', *Nutrition and Dietetics*, 64 (Suppl. 2), pp. S53 – S76.

Enjoy a variety of foods every day



Nutrition and health

- The five food groups that provide all the nutrition the body needs are:
 - breads, cereals, pasta, rice and noodles
 - vegetables and legumes
 - fruit
 - milk, yoghurt and cheese
 - meat, fish, poultry, eggs, nuts and legume
- Particular attention should be paid to nutrition and hydration (fluid intake) for people with swallowing difficulties.
- This is because they may have more difficulties having all the foods and fluids they need to support their health.

small package design



ADVANCED
Style **Advanced Style**

AdvancedStyleFilm.com
AdvancedStyleTheMovie.com (US)

AGING WITH STYLE – ‘ADVANCED STYLE’
DOCUMENTS BEAUTIFUL OLDER WOMEN
AGED 62-95



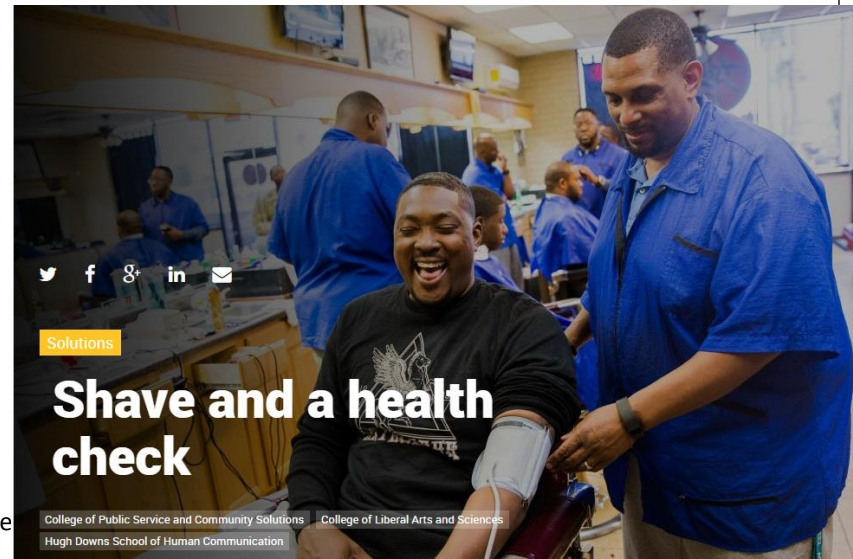
How barbershops can keep men healthy

- Using unexpected channels like the pulpit and the barber's chair, Dr. Joseph Ravenell delivers basic health care information to an at-risk demographic — African-American men. He uses Denny Moe's Superstar Barbershop as a successful example of barbershops cultivating **the intersection between health and haircuts.**

5:57 He said to me once, "Hey Doc, you know, lots of black men trust their barbers more than they trust their doctors."

7:05 With this kind of activism, and community investment that typifies the black barbershop, of course the barbershop is a perfect place to talk about high blood pressure and other health concerns in the community.

- Where is that place for you where people who are affected by a unique problem can meet a unique solution? When you find that place, see the opportunity.



Assistive Devices

Mild disabilities



Moderate disabilities



Severe disabilities



Pressure Relieve Mattress Pads

Monitors Those Who May Wander or Fall

- sends an alert to your phone when your patient leaves the bed
- wearable sensor that sends an alert to a caregiver's mobile device when a loved one or a patient gets up from a bed or chair, even if the caregiver is far away



A wearable sensor to monitor those who may wander or fall

Worn on their clothing
Alerts your phone when they get up - no matter where you are



Monitor from anywhere



Monitor many people using one phone



Securely attach to any clothing



Tiny, discreet, patient hears no alert



No charging long-life battery



Sensor is waterproof



Accurate history = better care

Active aging for disable person - horizontal integration

Internet of Things (IoT),
SafeWander,
smart bracelet,
remote control

monitoring tech
health management
(inclusive design)

Hi-Tech

Eating

balanced diet
diet quality

healthy food,
elderly nutrition

Clothing

easy to put on
and take off
stylish

clothes,
cosmetics,
accessories

Finance

financial planning
pension by housing
/trust



preventing morbidity
health promotion

Housing

safe living
comfort

smart home,
security,
assistive
device

Aged
Care

Postpone or
prevent
functional decline
and disability

assistive device,
exercise, activities

Transport

Universal Design
Going out

mobility aids,
transit systems

Health
care

Medical care
Prevention

companion care services,
health food,
assistive device

Entertain-
ment

self entertaining
entertaining others

Educa-
tion

senior learning
volunteer guides

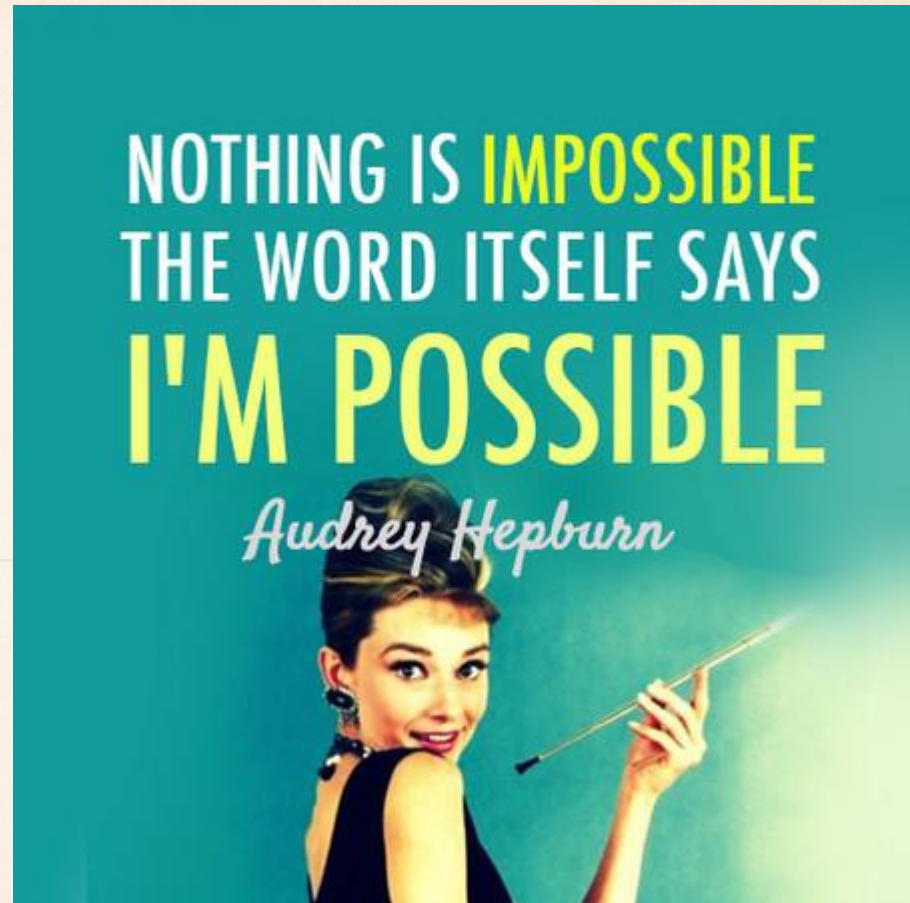
calligraphy,
dance,
Tai Chi

leisure/tourism, Wii,
electronic dog, concerts

Train services + e management (一條龍服務 + 資訊化管理)

- **a continuous line service**
 - Pregnancy & baby **apps**-maternity clothes, ..
 - Engagement & wedding- bride cake 、 invitations 、 photos 、 restaurant 、 party 、 planner 、 bride secretary 、 gifts
 - Air freight service : air to air or sea to air, door to door services
 - stroke or stroke worse: meal, mobility aids...
- **all-in-one service**- 7-11 、 PACE
- **one-stop services** – training to employment
- **Train services**- How barbershops can keep men healthy

PLANNING TODAY
FOR
A BETTER TOMORROW



***“Nothing is impossible, the word itself says
I’m possible!” - Audrey Hepburn***