

# China Chemical & Pharmaceutical Group Overview



# Agenda

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**1** CCPG Company Profile

**2** CCPG Family & Affiliates

**3** Global Business Development

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**3** Global Business Development

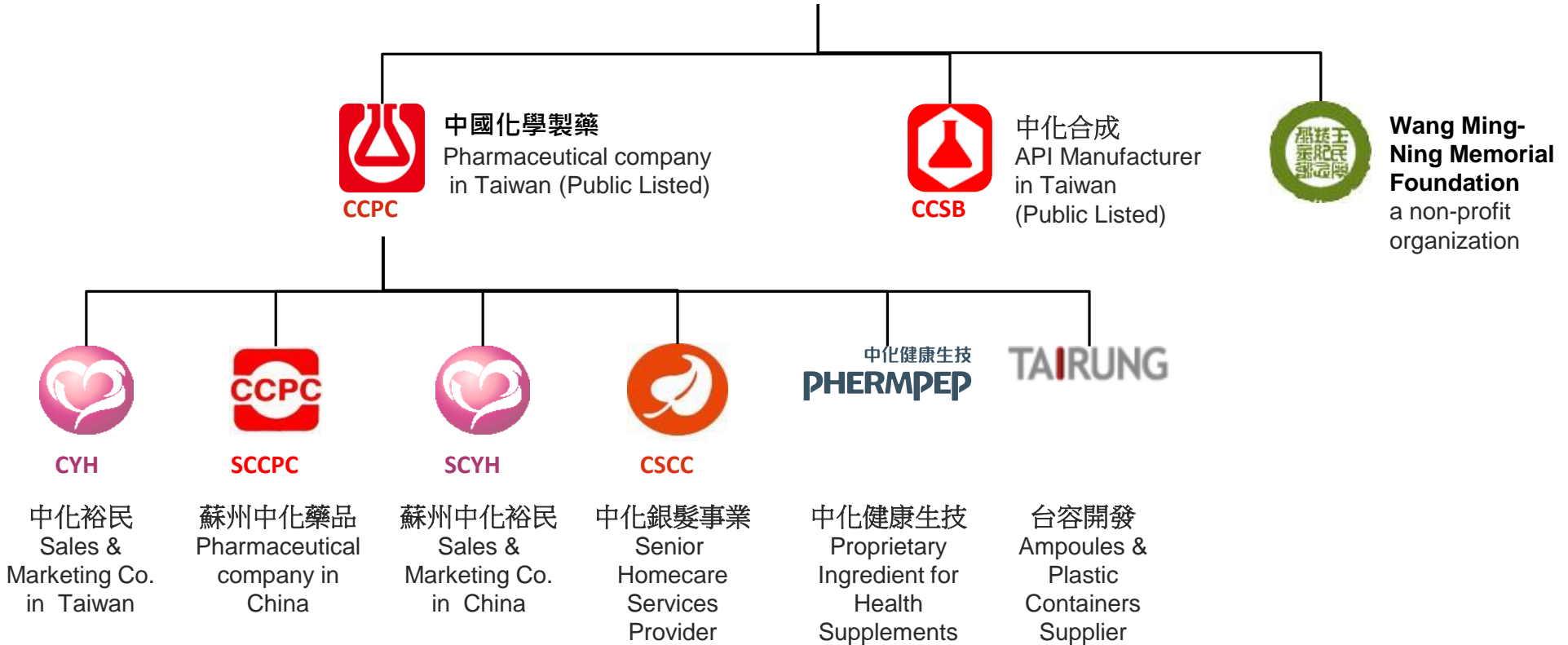
# Company Vision and Core Value

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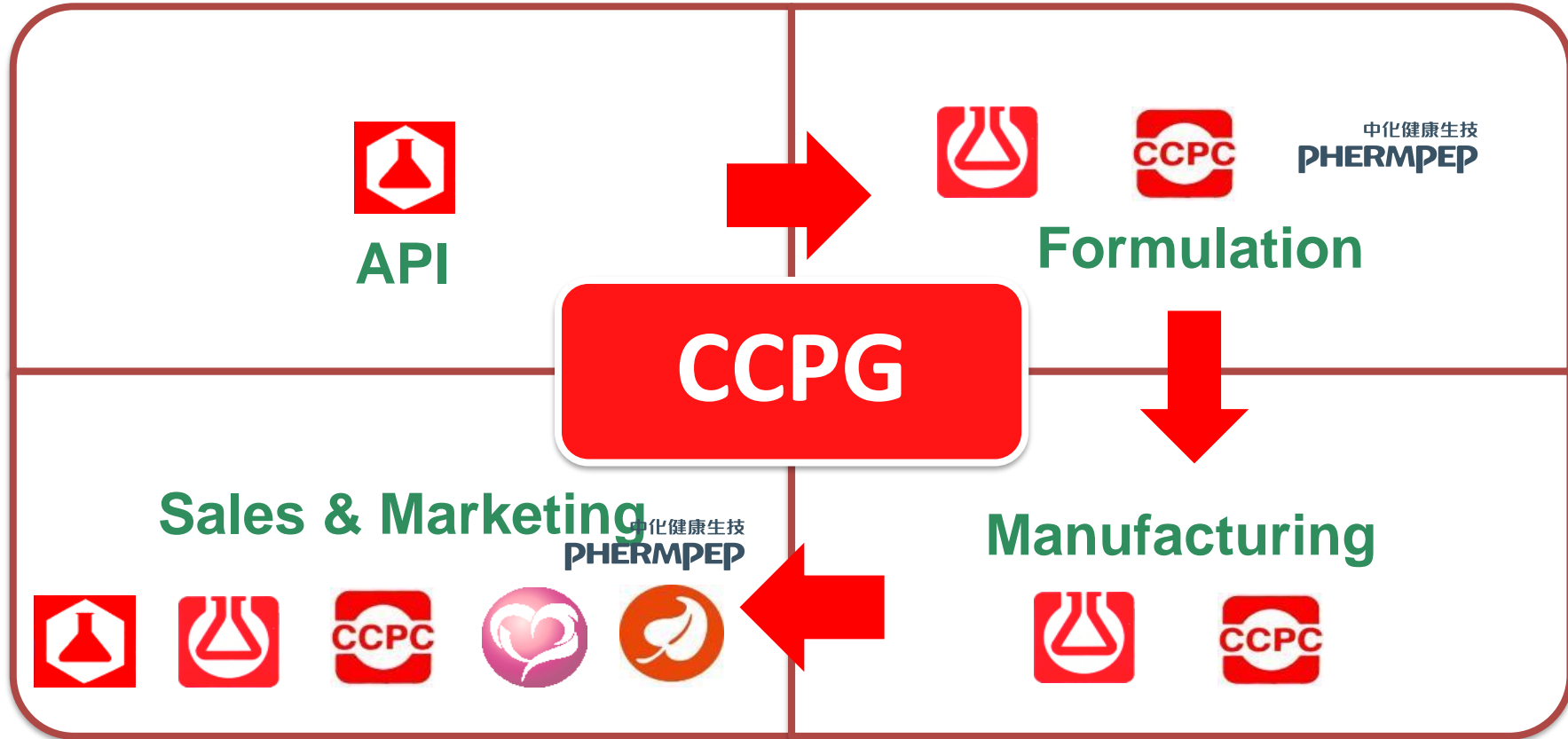


# CCPG Overview

## CCPG



# Vertical Integration



# Agenda

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**1** CCPG Company Profile

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**3** Global Business Development

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# China Chemical & Pharmaceutical Co., Ltd (CCPC)

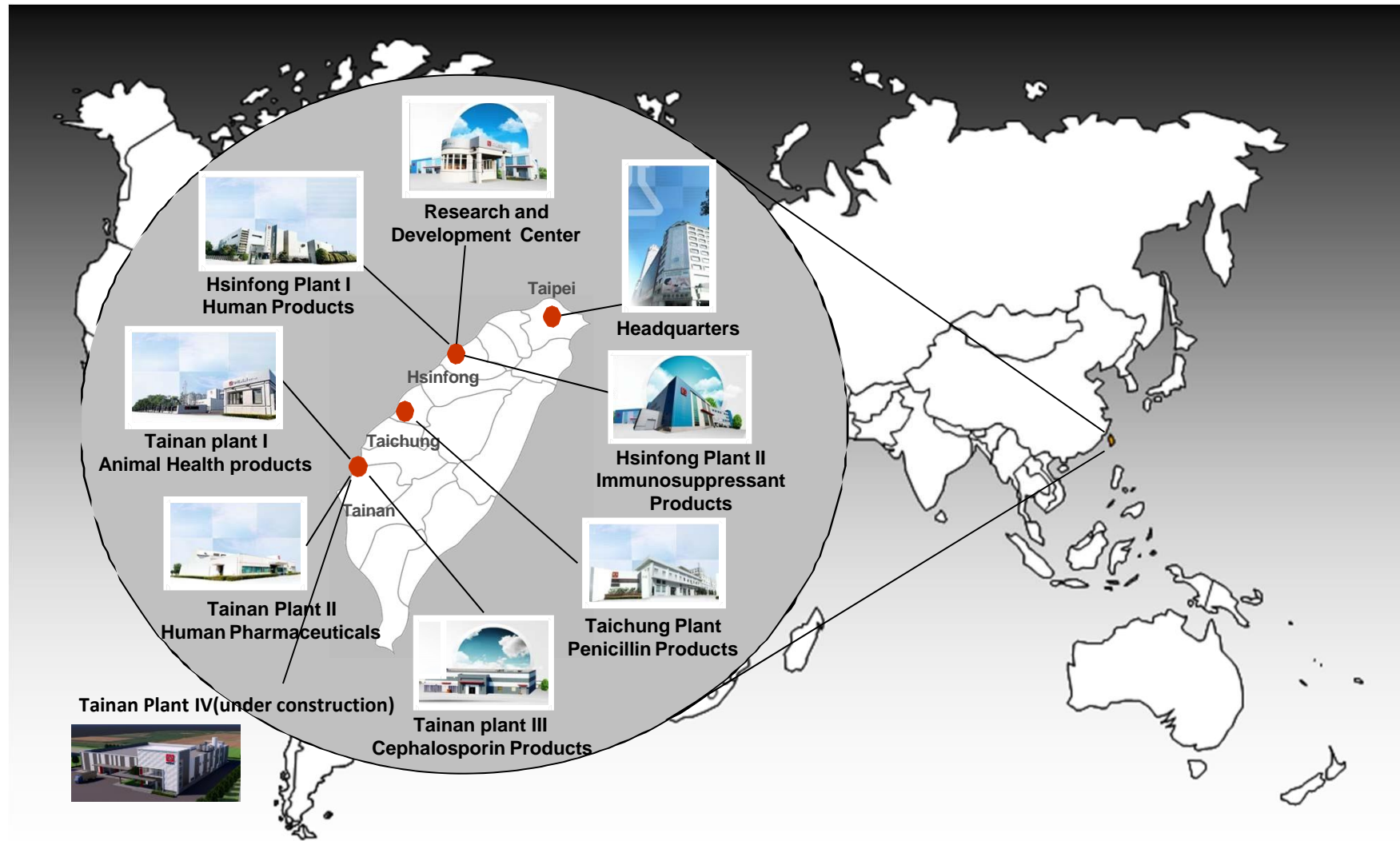
# China Chemical & Pharmaceutical Co., Ltd. (CCPC)



## Profile

- Founded in 1952
- The first public listed pharmaceutical Co. on the Taiwan Stock Exchange.
- The first generic pharmaceutical company in Taiwan to meet GMP(1984) & cGMP(2001) guidelines
- All manufacturing sites are PIC/S GMP certified (2013), and several acquired GMP certification from US FDA and Japan PMDA
- The first Taiwan pharmaceutical company to invest in China (1993)
- One of the largest contract manufacturers for human pharmaceutical & animal health products in Taiwan

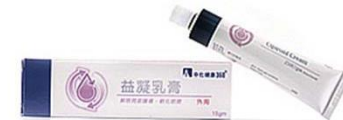
# CCPC Headquarters and Manufacturing Plants



# CCPC Product Forms

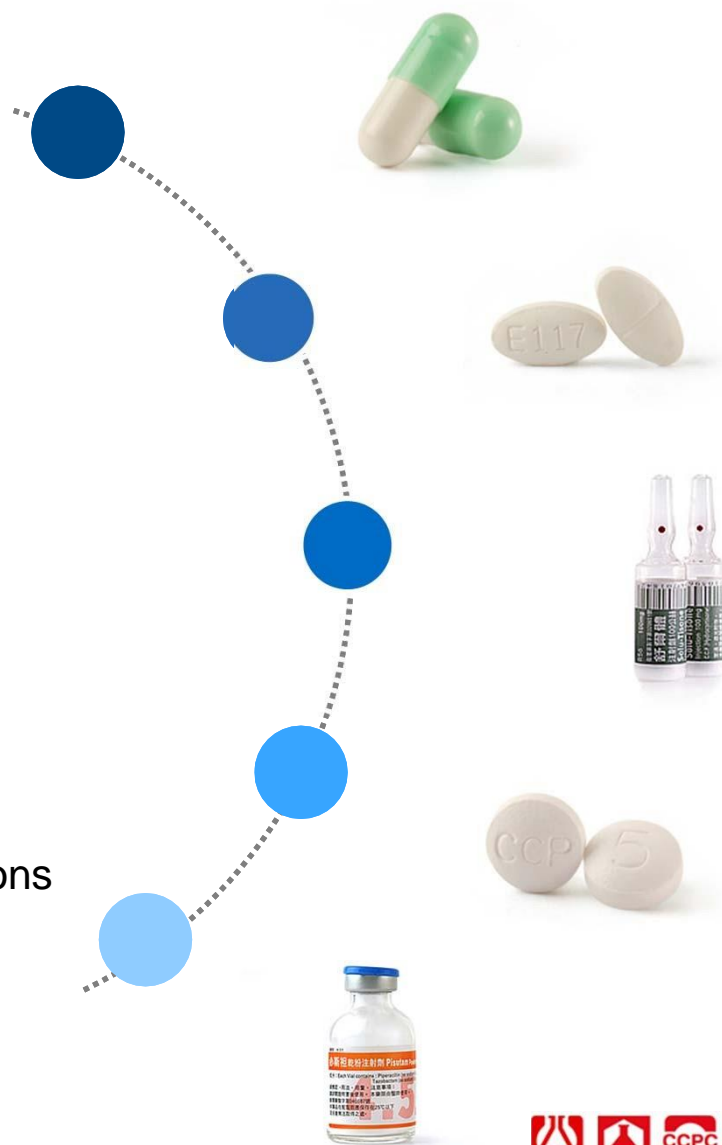
## Product lines include

- Tablets
- Capsules
- Injection
- Solutions
- Ointments
- Veterinary products
- Premixes, additives



# CCPC Major Products

- Anti-infective drugs
- Cardiovascular agents
- Hypolipedemics
- Remedies for peptic ulcer
- Anti-pyretics & analgesics
- Anti-diabetic agents
- Anti-tussives & expectorants
- Anti-histamines
- Remedies for asthma
- Anti-fungal and anti-viral agents
- Sedative, hypnotics & tranquilizers
- Electrolytes & hemodialysis preparations
- Vitamin preparations
- Animal health products



# CCPC Business Development Strategy

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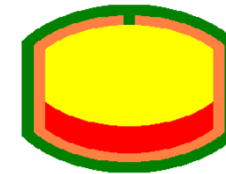
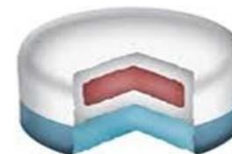
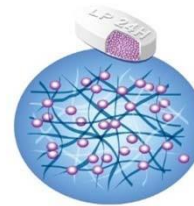
*How can CCPC drive growth, whilst building and defending it's existing product portfolio?*

- Maximize short and long term revenues
- Further strengthen pipelines
  - ✓ A fully vertically integrated pharmaceutical company
  - ✓ Development of niche generics into global markets
  - ✓ R&D strategies in developing complex generics
  - ✓ Application of CCPC unique controlled-release drug delivery technology for niche product development
- Reinforce Organizational capabilities
  - ✓ Product portfolio optimization
  - ✓ Global contract manufacturing business

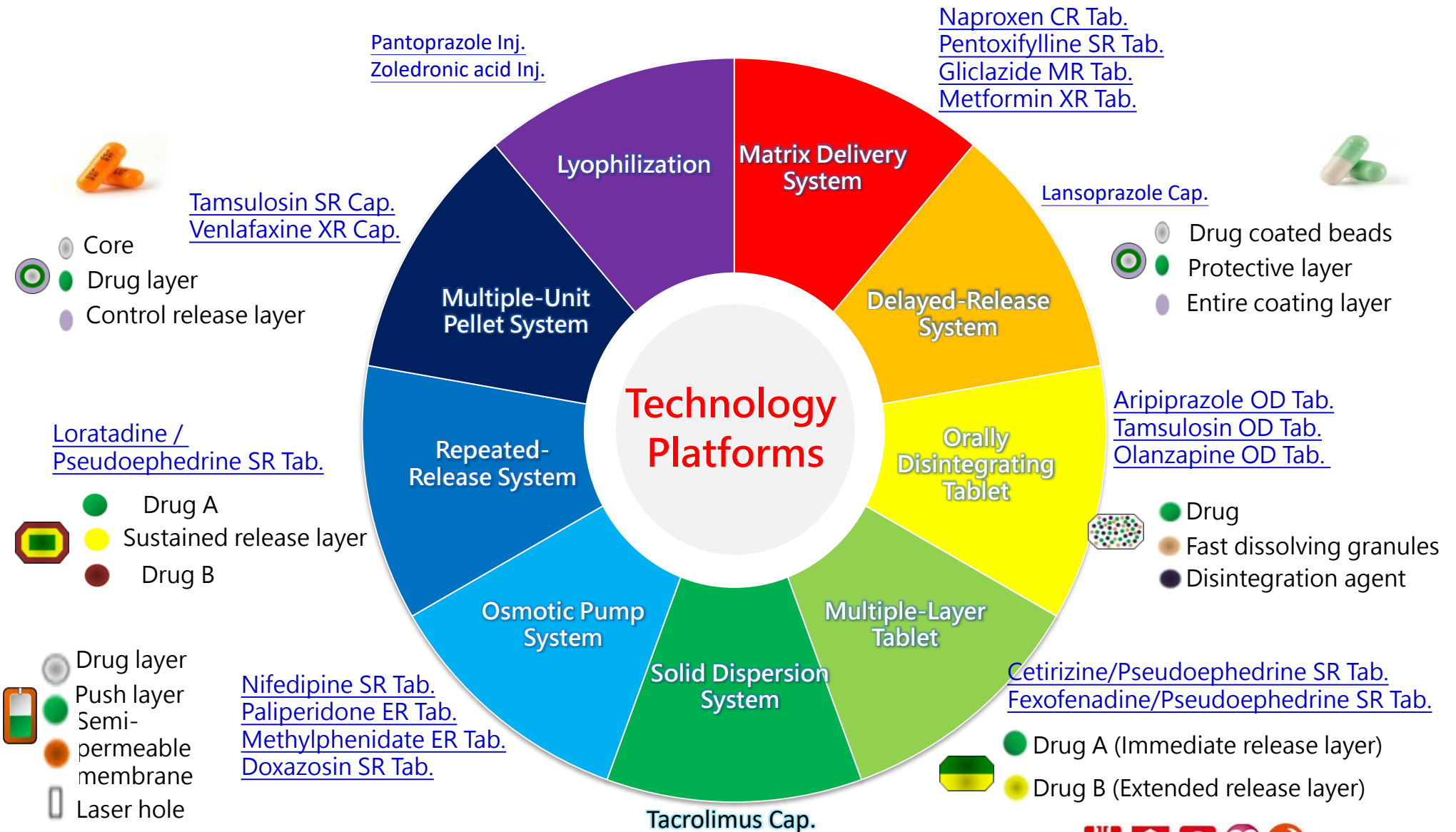
# CCPC Drug Delivery System Platform

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- Osmotic Pump (Tablet)
- Matrix Delivery (Tablet)
- Repeated-Release (Tablet)
- Delayed-Release (Pellet)
- Multiple Unit-Release (Pellet)
- Multiple-Layer (Tablet)
- Orally Disintegrating (Tablet)



# CCPC Technological Platforms



# CCPC Collaborators

**Exclusive Agent**

**Distributor**

**Contract manufacturer**

**R&D collaborator**



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# Chunghwa Yuming Healthcare Co., Ltd. (CYH)

# Chunghwa Yuming Healthcare Co., Ltd. (CYH)



## Profile

- CYH was founded in 2004, and is 100% owned by CCPC
- Devoted to marketing, sales and customer service in healthcare-related industries
- Biggest marketing/sales platform for CCPC
- Agency for multinational pharmaceutical
- On the front line for license-in business opportunities

# CYH Private Labels

## Rx

- CCPC
- CYH



## Personal Care

- SMILING
- GREEN
- KOZI



## OTC

- Better Life 360
- Green Hand Sanitizer



## Food Supplements

- Full Health
- PHERMPEP



# CYH Collaborative Partners

## Rx



EAPharma

believe in life

Galenicum

MEDIS



HEALTHCARE  
CELLTRION

丸石製薬株式会社  
Maruishi Pharmaceutical

## OTC



Daiichi-Sankyo

life.love.  
LION

## Personal Care

CSD®

大王製紙株式会社

INE  
life.love.  
LION

## Medical Device

OMRON

GARMIN™

Abbott

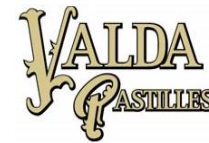
BRISE  
Bridging for health

Nubomed

日陶  
NITTO

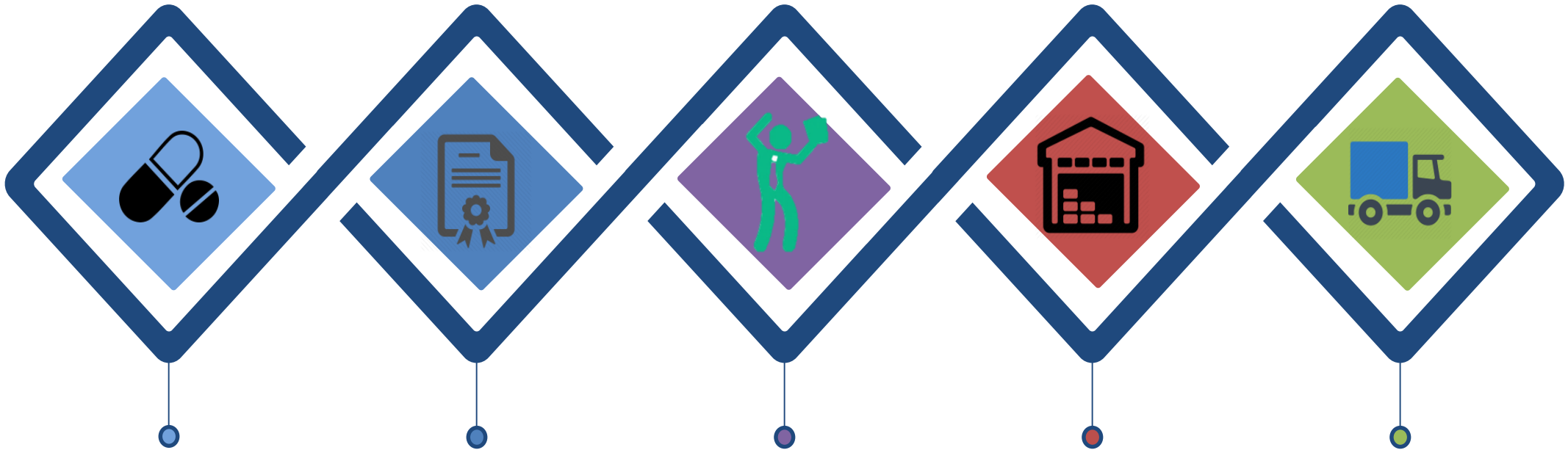
Sunbeam  
夏縉

## Food Supplements



# Feasible Fields of CYH

*CYH is willing to work with DRL regarding BNHI pricing application, sales and marketing, warehouse, and logistic services*



## Product Selection

DRL discusses with CYH to select and prioritize products to be registered in TFDA.

## BNHI pricing Application

CYH, as represented by DRL Taiwan, is willing to apply for BNHI prices after MA is granted.

## Sales & Marketing

CYH utilizes/increases current task force to launch products.

## Warehouse

CYH will take over warehouse service of non-overlapped products

## Logistic

CYH will be responsible for logistic service of non-overlapped products

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# Suzhou Chunghwa Chemical & Pharmaceutical Industrial Co., Ltd (SCCPC)

# SCCPC

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## Profile

- Qualification: GMP in 2108
- Annual Production
  - Powder Injection: 60,000,000 vials
  - Tablet: 1,800,000,000 tablets
  - Capsule: 1,800,000,000 capsules
  - Granule: 400,000,000 sachets
  - Disinfection Solution for Contact Lenses: 10,000,000 bottles
  - Mouth Wah Solution: 8,000,000 bottles
- R & D
  - Submits 1-2 new products for registration annually
- Contract research and manufacturing
- Marketing, distribution and promotion

# SCCPC is a Generic Pharmaceutical Co.

## ■ Product Category

- Antibiotics (Cefalosporins mainly)
- Hypolipidemics
- Gastrointestinal drug
- Gynaecological drug
- Antipyretics
- Hypoglycomics
- Antidepressant
- Disinfection solution for contact lenses
- Antiseptic solution



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# Chunghwa Chemical Synthesis & Biotech Co., Ltd (CCSB)

# Chunghwa Chemical Synthesis & Biotech Co., Ltd. (CCSB)



## Profile

- Founded in 1964
  - The first registered and one of the largest bulk pharmaceutical chemical manufacturers in Taiwan
  - The first Taiwan FDA approved plant (1984)
- Turning Points in 1997
  - Formed a new management team in 1997
  - Invested US\$ 20 million to construct:
    - 4 cGMP Plants for Synthetic Products
    - 2 cGMP Plants for Biotechnology Products
  - Established US Sales Office-Pharmaports in 2000
- Products:
  - Develop both synthetic & biotech products
  - Participate in new drug development and contract manufacturing
- Global market oriented with emphasis on
  - U.S.A., Europe, Japan
- Initial public offering on December 20, 2010

# CCSB cGMP Inspections

Year	Authorities	Nation	Product
2019	ANSM	EU	Methocarbamol
2018	FDA	US	cGMP systems
2017	PMDA	Japan	Rapamycin
2017	FDA	US	Icosapent Ethyl
2015	Cofepris	Mexico	Caspofungin
2015	Koln	Germany	Pravastatin Sodium; Tacrolimus
2014	FDA	US	cGMP systems
2013	MFDS	Korea	Tacrolimus
2013	PMDA	Japan	Tacrolimus
2012	Koln	Germany	Pravastatin
2011	FDA	US	Dexb; MMF; Tacrolimus
2009	Koln	Germany	Pravastatin
2007	MFDS	Korea	Methocarbamol
2005	FDA	US	Pravastatin
2002	FDA	US	Methocarbamol

# CCSB is a Niche Pharmaceutical API Company

DMF list			
13080	METHOCARBAMOL USP	24372	MYCOPHENOLATE MOFETIL HCl
14234	GUAIFENESIN USP	26271	ETHYL ICOSAPENTATE
14235	PRAVASTATIN SODIUM USP	26819	EVEROLIMUS PRE-MIX
17399	RAPAMYCIN	27216	EVEROLIMUS
17573	TRANDOLAPRIL USP	27585	CASPOFUNGIN ACETATE
18494	MYCOPHENOLATE MOFETIL USP	30103	OMEGA-3-CARBOXYLIC ACIDS
18985	TACROLIMUS	31189	RAPAMYCIN (SIROLIMUS)
22430	OLOPATADINE HCl	31276	CARFILZOMIB
23213	TACROLIMUS SD20	33333	MYCOPHENOLATE MOFETIL USP (PROCESS B)
23434	METAXALONE USP		

## R&D Product Pipeline

Multiple Sclerosis Ozanimod HCl	Anti-coagulant Edoxaban tosylate monohydrate	Osteoporosis Abaloparatide
Oncology Midostaurin	Chronic Kidney Disease Etelcalcetide HCl	Acromegaly & Neuroendocrine Tumors Lanreotide acetate
Breast cancer Palbociclib Ribociclib succinate	Rheumatoid Arthritis Baricitinib	

# CCSB Product Categories

◆ Muscle Skeletal Relaxants	Methocarbamol	Metaxalone
◆ Antifungal	Caspofungin Acetate	
◆ Immunosuppressant	Mycophenolate Mofetil HCl Mycophenolate mofetil Rapamycin (Sirolimus)	Tacrolimus Mycophenolate sodium Everolimus
◆ Oncology	Midostaurin Carfilzomib Ixazomib Citrate	Palbociclib Ribociclib succinate
◆ Cardiovascular	Valsartan/sacubitril (LCZ696) Sacubitril Sodium Salt	Ethyl Icosapent (EPA>98%) Omega-3-Carboxylic Acids
◆ Peptide Drug	Teduglutide (Recombinant) Etelcalcetide HCl	Abaloparatide Lanreotide Acetate
◆ Others	Baricitinib Edoxaban Tosylate Monohydrate	Ozanimod Hydrochloride Guaifenesin

# Why CCSB?

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- Over 55 years of bulk API manufacturing experience
- FDA and Health Authorities approved cGMP facilities for synthesis & biotech APIs
- Fully cGMP trained and experienced personnel
- Strong R&D support
- Proven records for cost effective and on-time delivery of contract manufacturing from lab to commercial scales
- Good communication skills & prompt response



Pilot Plant



Reactor



Feeding Tank



Fermentor

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# Chunghwa Senior Care Corporation (CSCC)

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## Profile

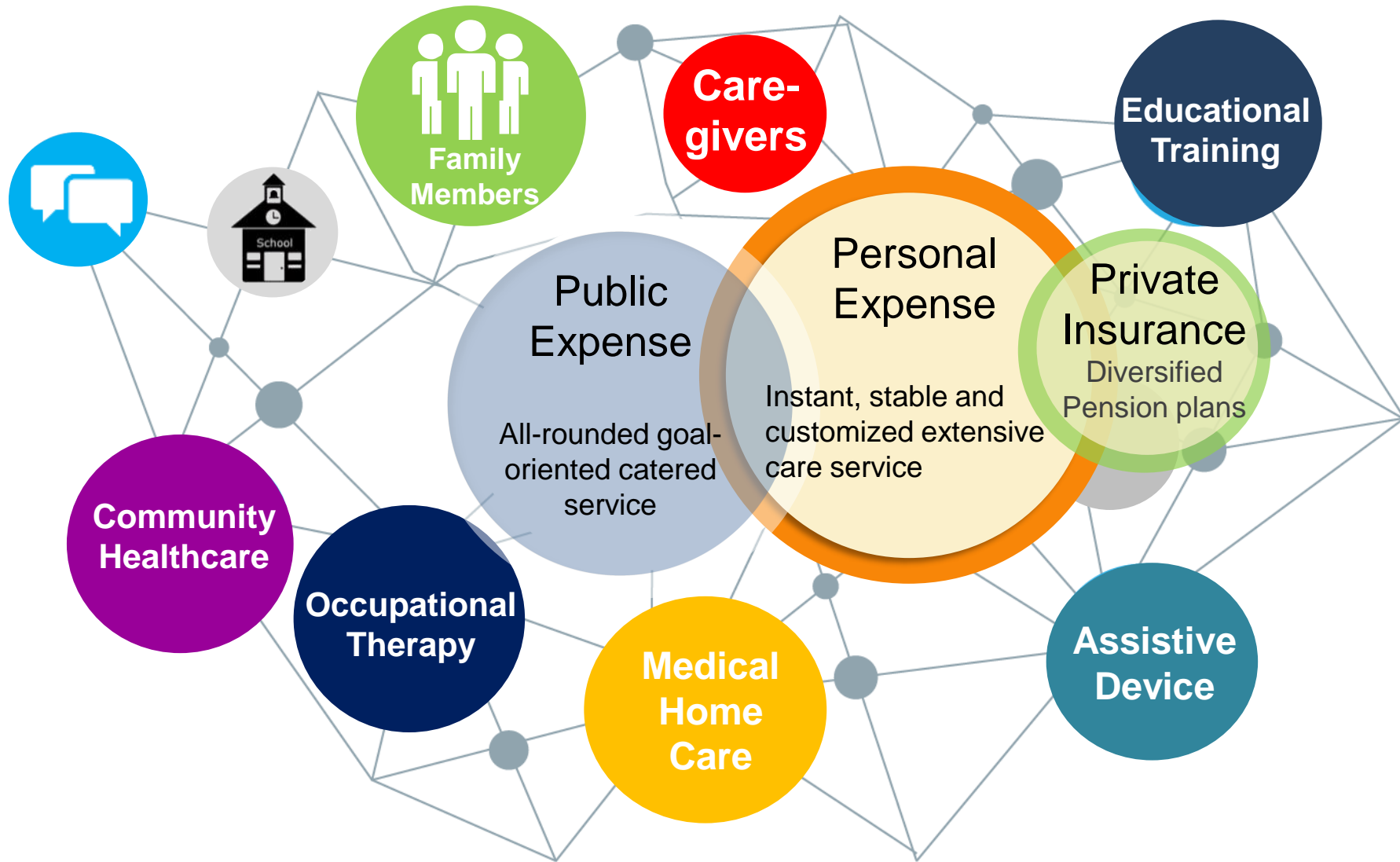
- Founded in 2006
- CSCC is the leading integrated senior care services provider in Taiwan.
- Our mission is to offer an individualized approach to keep seniors safe and sound in their own homes.

# Supportive Home Care Services



- Provides diversified integrated home care service
- Focuses on long-term special care service
- One-on-one management style between our “Care Manager” and clients
- Physical locations providing convenient services in franchised style: Taipei, Taoyuan, Taichung, Kaoshiung

# CSCC Integrated One-Stop Services



*Provide multiple choices of home care services & public expense allows flexible adjustments*

# Senior Care One-stop Integration & Innovation



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# Phermpep Co., Ltd

# Phermpep Co., Ltd.



## Profile

- Established in Jan. 2015
- Total investment: US \$2.8 Million
- Location: Central Taiwan Science Park (CTSP, Taichung city)
- Brands: 3
- Award: The 13<sup>th</sup> National Innovation Award

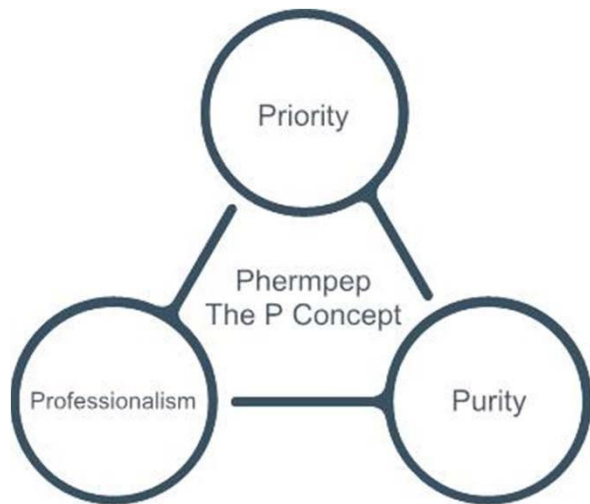
# Vision and Brand Concept

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## Vision

To become Taiwan's top enterprise in the health and biomedical industry, as well as to develop functional peptide products that rival those of international leading brands.

## Brand Concept



**Priority:** Give foremost consideration to consumer health.

**Professionalism:** Build on a foundation of integrated specialized research and development. Focus on producing health care and preventive medicine materials that are safe and effective.

**Purity:** Emphasize pure and natural ingredients and advocate a healthy lifestyle.

# Innovative Bioactive Ingredient

## Leading Brand of Kefir Peptides

Our academic and industrial partners have studied the application of KEFPEP® kefir peptides for over a decade. Its mode of action and multifunctional efficacy are well published in various journals. Phermpep's unique know-how in KEFPEP® mass production helps promote the ingredient over the world. We are eager to work hand-in-hand with brand clients to develop new products with KEFPEP® and with consumers for general health improvement.

Cardiovascular Health

Metabolic Health

Bone Health

KEFPEP

## Applications of Kefir peptides

- Anti-Osteoporosis



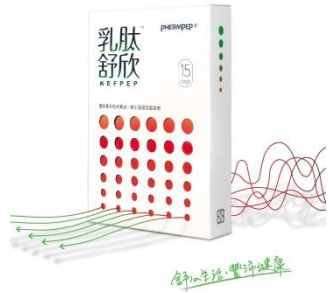
- Anti-Hypertension



- Fatty Liver Prevention

# Brand Series

**PHERMPEP®**



**中化沛存®**  
Full Health



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# Vertical Integration (API & Finished Dosage Form)

*CCPC is an Integrated Pharmaceutical Company*

