



Total Health Care Solution
Provider

Company History

Huons, started as Kwang Myung Pharm in 1965, has grown to a competent global company, producing original and effective essential medicine and medical products, through continual challenges and innovations over 50 years. Huons is putting a ceaseless effort for human health without disease. Our goal is to achieve 1 billion USD in 2020 and aiming to be the TOP TEN global company in the industry.



HUONS GLOBAL - Business Structure

Control Tower of Hugroup

Transparency of company control structure and management stability

Management of Subsidiaries <ul style="list-style-type: none"> ▶ Utilize efficient resources to create synergies ▶ Obtain responsible management system ▶ Integrate management of overseas business 	Establishing a foothold in a new business <ul style="list-style-type: none"> ▶ Invest and manage the new business ▶ Stabilize the new business ▶ Found lucrative business structure 	Discover a new future Growth Engine <ul style="list-style-type: none"> ▶ Found a business to create synergies with the current business (Health care, esthetic, etc) ▶ Actively discover diverse business opportunities 	Botulinum Toxin Business <ul style="list-style-type: none"> ▶ Growing up company value ▶ Targeting global market (United States, European Countries, China, etc) ▶ Synergistic effect with fillers
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Vision

• Mission

“Total Healthcare Group”

Purposes Medical Solution For Human Being's Health

• Vision VISION 3·6·9 for 2025

Establishing 3 Global Production Bases	Developing 6 Innovative New Medicines	Securing 9 Hidden Champions
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• Strategic Directions

Diversification of business portfolio	Expansion of global business	Extension of innovative technology development pipeline	Operation of global standard management system
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• Core Value

Customer-oriented	Innovation-driven	Speed	Mutual trust
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Business & Products

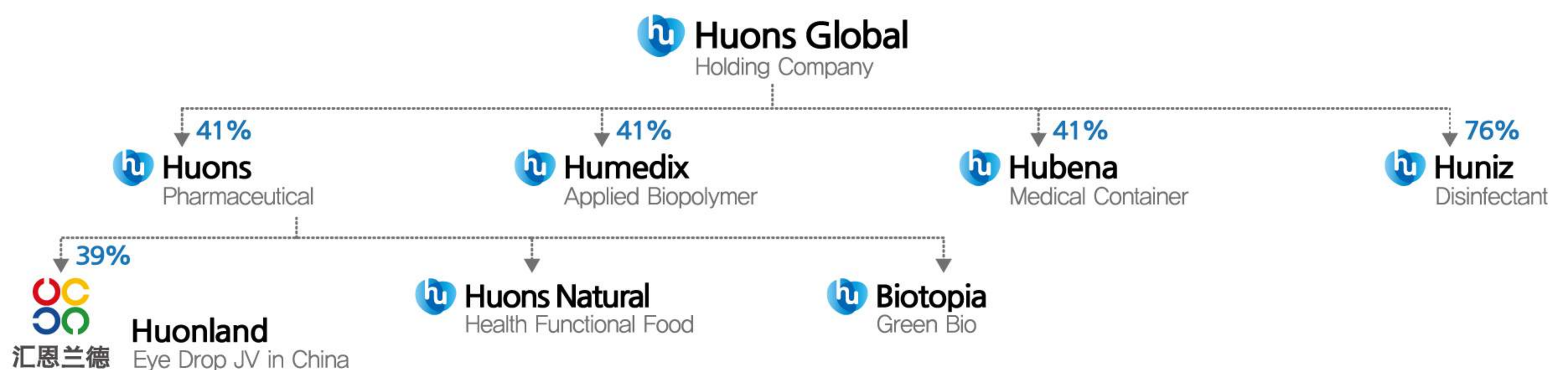
- Business Portfolio with high potential of growth

“Total Health Care Solution Provider”

• Business Portfolio

Pharmaceutical product (ETC, Well-being)	+	Medical device Bio CMO	+	Cosmetic Health Functional Food	+	Sanitizer Medical bottle
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• Performance “Growing fast with consistent profitability”



HUONS - Business and Product of HUGROUP

Manufacturing site

- Location : 100 Biovalley Street, Jaecheon-si, Chungcheongbuk-do, Korea
- Established : June, 2014
- Production facilities investment completed
- Area : 1,104m²
- Managing the manufacturing facility automatically with BMS (Building Management System)



✓ Huons: Business & Products - Pharmaceutical products for ETC, Dental Anesthetics and Well-being

🔍 ETC

I Provides full product portfolio ▶ Registration for the approximately 300 pharmaceutical products

I Continues to secure key R&D design wins ▶ Cash cow

- Circulatory System
 - Hyperlipidemia: Rosuvastatin Tab., Atorvastatin Tab.
 - Hypertension: Valsartan Tab., Lecanidipine Tab., Losartan Potassium Tab.
- Metabolic
 - Diabetes: Glimepiride Tab., Metformin Tab., Pioglitazone Tab.
 - Alzheimer's Disease: Rivastigmine patch
- Digestive System : Ranitidine Tab., Mosapride citrate Tab., Rebamipide Tab., Cimetidine Tab.
- Musculoskeletal System : High High inj., Risedronate Tab., Ibandronate Tab.
- Antipyretic·Analgesic·Anti-inflammation : Loxoprofen Tab., Aceclofenac Tab., Celecoxib Tab.
- Antibiotics : Cefaclor Tab., Amoxicillin Tab., Roxithromycin Tab., Clarithromycin Tab.

Manufacturing site Lidocaine / Articaine

I Dental lidocaine - Rank No.1 in market share with local Anesthetics for dental care

I High quality of products equipped with the state of the art automatic production system

- Export to Nipro(Japan) under long term cooperation (Lidocaine Epinephrine Inj. 1:80,000 approved by Japanese MoH (PMDM))
- Product : Lidocaine inj., Lidocaine Epinephrine inj. (1:80,000, 1:100,000, 1:200,000(New))
- Articaine in sales : mainly used in Europe
- Exports to more than 20 countries



🔍 Well-being

I Strong growth of pharmaceutical market mainly driven well-being products

I Expansion of high value-added products (Non-reimbursement)

▶ Increase Profitability

- Obesity : Phentermine Tab., Alginate Tab., Orlistat Cap., Phendimetrazine Tab.
- Immunity Booster : Sodium selenite inj., Ascorbic acid inj.(High concentration Vit.C), Colecalciferol inj.(Vit.D)
- Other well-being injection : Placenta ext. inj., Glutathione inj., Fursulthiamine inj., Magnesium inj., Ginkgo biloba ext., Caffeine inj., L-carnitine inj.



HUONS - Business and Product of HUGROUP

✓ Huons: Business & Products - Medical Device

I Aesthetic injection market growing fast (Filler / Botulinum toxin)

I Preemptive enter into Chinese market - Explosive growth ▶ New growth power

• Dermal Filler(Elravie) (With Lidocaine & Without Lidocaine)

- HDRM Technology : High Density Reticulated Matrix
 - ▶ High viscosity and elasticity
- Enhanced durability and volumizing(2.5ml, Da. HA-High molecule)
- Approved by CFDA (Chinese MOH) (2015.03)
- 4types approved by CE (2015.12)
- Hydro Lifting
- Under development : PCL filler PDRN + HA filler, Volumizing filler



• Injector(Dermashine)

- Auto injector : Correct depth of skin and volume of medicine
- Approved by CFDA (Chinese MOH) (2014.12)
- Under certification of CE - expected completion in 2016



✓ Huons: Business & Products - Bio

• Hutox

- Product Specification
 - Active Ingredient : Clostridium botulinum Toxin Type A
 - Strengths : 100, 200 unit/vial
 - Dosage form : Freeze-dried powder for reconstitution only with sterile and non-preserved normal saline, prior to injection
 - Storage : Unopened vial of HUTOX should be stored in a refrigerator (2 to 8°C) for up to 36months.
- Indication
 - Temporary improvement of moderate to severe glabellar Wrinkles.
- Advantage
 - High purity Botulinum Toxin (>99%)
- Plan
 - Approval for export by KFDA during 2016
 - Under development of liquid type



Facility investment & Product development completed

Clinical trials (Aug 2016 ~ 1H 2018)

Product launch (2H 2018)

HUONS - Business and Product of HUGROUP

✓ Huons: Business & Products - Eye drop

- Huonland(JV) established for China eye drops market
- Tremendous growth of China eye drops market caused by environmental issues
 - ▶ CAGR 20%
- Strengthened distribution channels through Alcon

❖ Kynex / Clacier

- Kynex – The first disposable eye drop with HA in domestic
- Clacier – Treatment for dry eyes with Cylosporine (nano particle technology)
 - PCT applied to 8countries including USA and Japan
 - Contracted Alcon for 10countries in Southern East Asia



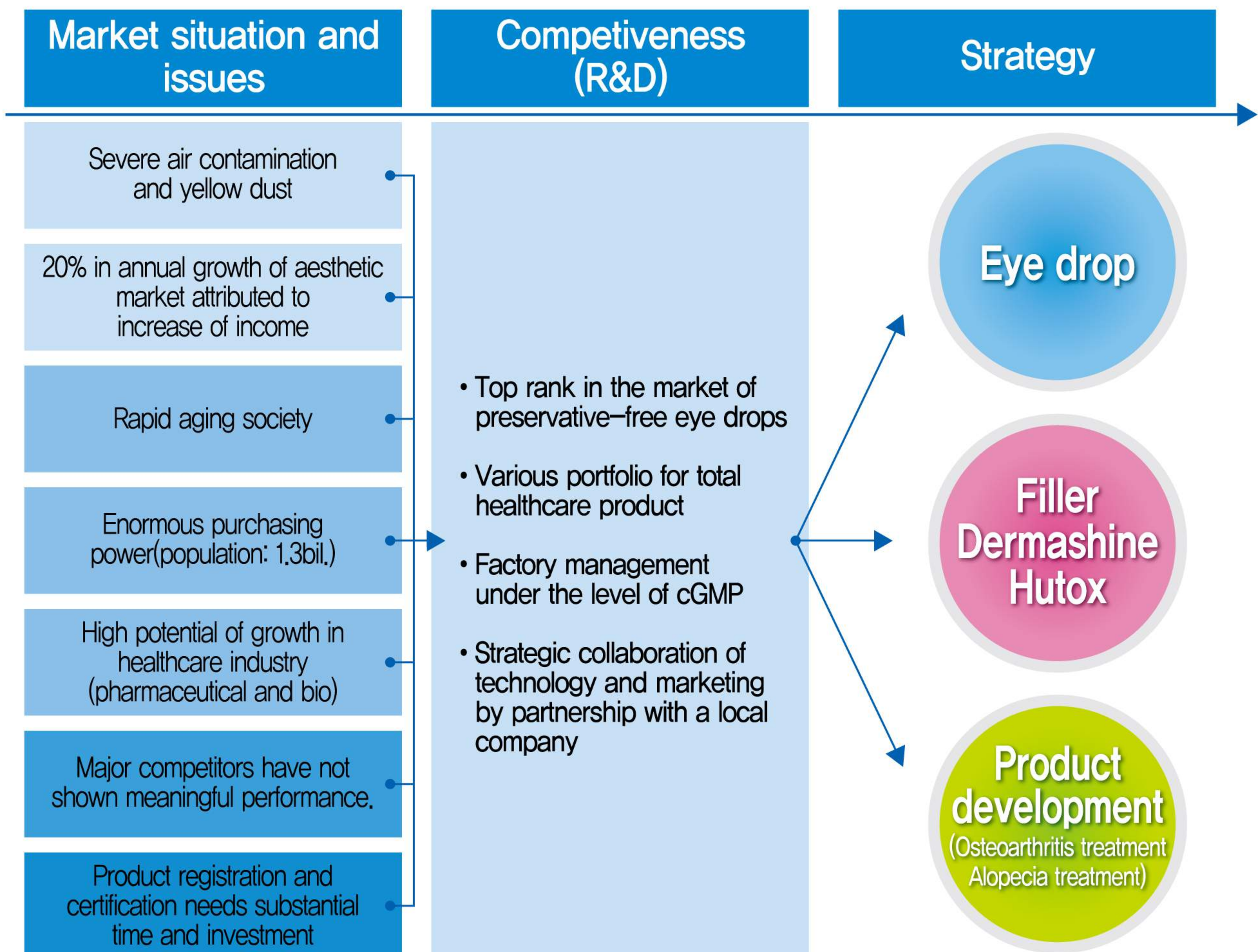
❖ Huonland

- Sep 2015 : Submitted drug license & GMP Application
- July 2016 : Approved product registration (Brimonidine tartrate for glaucoma treatment)
- Early 2017 : Expects approval for Disposable Eye Drop containing HA 0.1%, 0.18%, 0.3%.



✓ Huons: Development of Chinese market

- Huonland JV -specialized in Eye drop-to break into Chinese pharmaceutical market
- Development of new product and construction of sales channel by Chinese company



HUONS - Business and Product of HUGROUP

✓ Huons: Core Competence - Goal of R & D

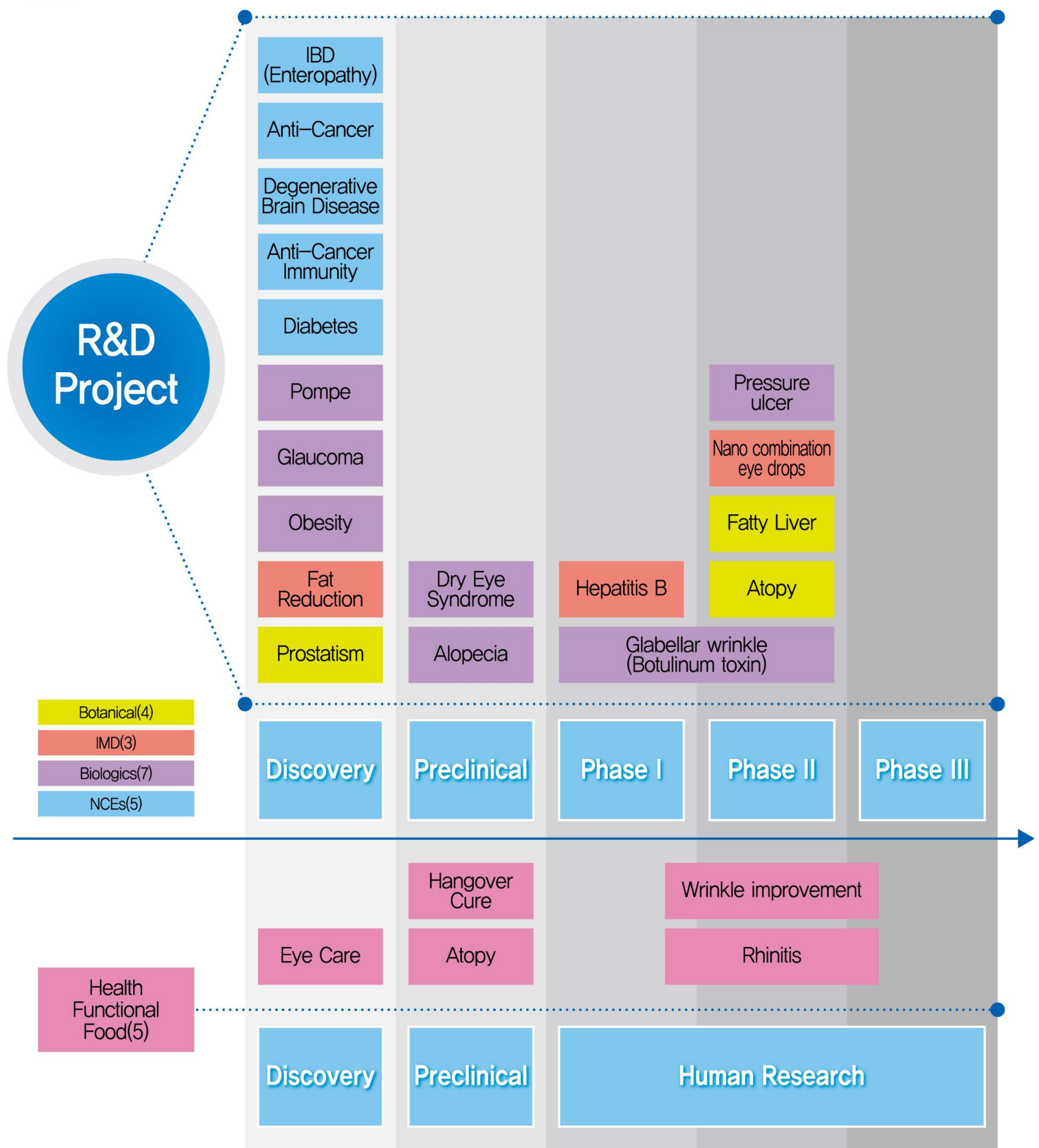
I New medicine development

- Natural & bio materials
- Support from government and utilization from University Industry Cooperation Policy

🌱 R&D focusing field



✓ Huons: Business & Products - R & D Pipelines



HUMEDIX – Business and Product of HUGROUP

I The second takeoff stage with construction of the new factory

❖ Current factory



Location: Jecheon, Chungcheongbuk-do

〈Current factory〉

- Production facility: PFS and API

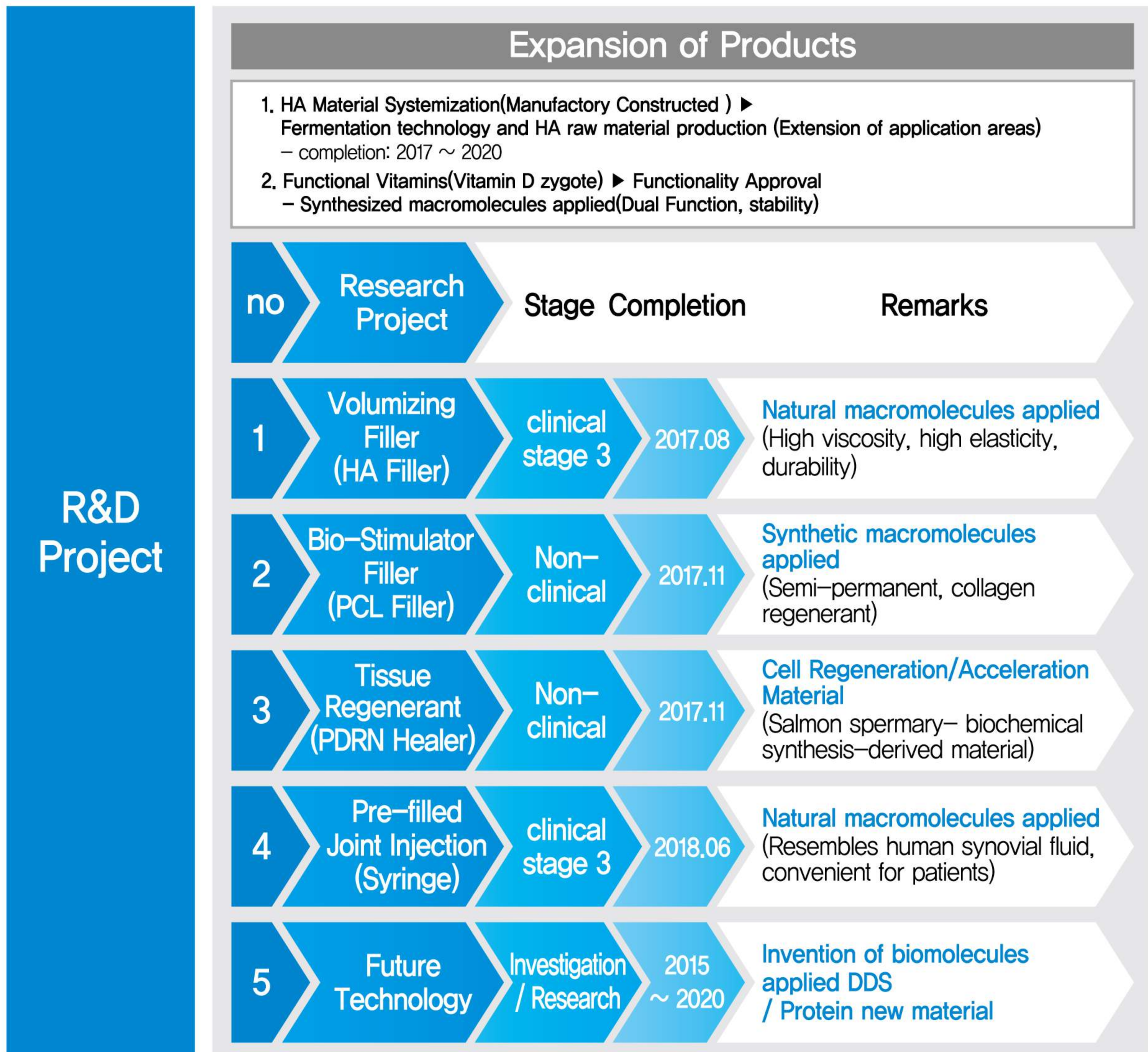
❖ New factory (additional construction)



〈New factory〉

- Date of commencement and completion: Mar, 2016 – Apr, 2017
- Production facility: lyophilization injection, vial injection, ampoule injection, aseptic cosmetic line along with reinforcement of PFS and API line.
- Capacity: over 4times capable than current factory

☑ Humedix: R & D pipelines



HUMEDIX – Business and Product of HUGROUP

✓ Humedix: Business & Products

- | World top class biopolymer source technology
- | Continuous growth and improvement of future value

❖ Main product specialized in high quality of HA

- **Osteoarthritis treatment**
 - Outstanding quality and cost competitiveness

- **Humia-14002 (One injection)**
 (High Molecular Cross-linked HA, 60mg/3mL)
 Under development: IND completed
 Clinical trial: Sep, 2016 – Jun, 2018
 Approval by MFDS: End of 2018
 Launching: The first quarter in 2019.
 Technology export of one injection



<3-time injection>



<5-time injection>

- **Dermal filler**
 - Differentiated product lines with highly purified HA

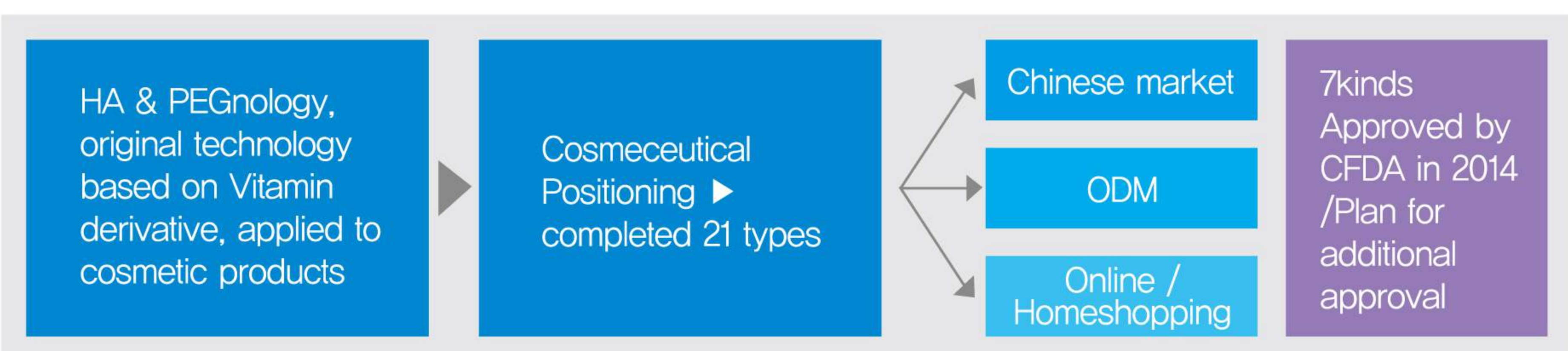
- **New product**
 - PDRN injection: DMF submission (under process of approval)
 - Sterile cosmetic (Elravie): Anti-wrinkle, skin brightening and rejuvenation (to be launched in 2016)



- **Cosmeceutical**
 - HU:ON: Specially formulated ingredients with high concentration of premium HA
 - Functional & newly developed ingredients approved by KFDA
 - ※ Huvita-D (approved as wrinkle improvement) ▶ main ingredient of Vitamin-D with patent completed
 - HU:ON 7: Functional ingredients
 - Improvement of wrinkles and skin brightening
 - Hypercell ampoule: Stem cell medium extract
 - Improvement of wrinkles and skin brightening
 - Homme (for men): Melittine
 - Soothing and moisturizing
 - V Thera mist 3: Vitamin C, D, E
 - Moisturizing and Sun block
 - Watershine D Cover Cushion: Vitamin D /High blossom CC Cream
 - Skin cover, sun block and improvement of wrinkles



❖ Strategy and status



HUBENA – Business and Product of HUGROUP

- Production and sales of medical glass bottle (Ampoule, Vial and Cartridge)
- Superior automatic equipment and facility(made in France) and competitiveness for quality and cost leading to stable production synergy

Company information

Establishment	Oct, 1996
Main product	Glass bottle –Ampoule, Vial and Cartridge



Management strategy

- New factory built in Apr, 2013 and increase of production
- Business expansion using various medical material – prefilled syringe, PVC hole, rubber plunger and cap – not limited to existing items

HUNIZ – Business and Product of HUGROUP

- Sales of cleansing sanitizer for medical device and ETC
- Business management for specialized medicinal products–Eco–friendly sanitizer preventing from environmental contamination and ETC

Company information

Establishment	Sep, 1999
Main product	Cleansing sanitizer for medical device



Main product

- Medical sanitizer
 - Hemoclean (Sterilizer of hemodialysis equipment– Approved by FDA/CE)
 - Scoterin (sterilizer of endoscope)
 - Hexi-ol 2% (Sterilizer of surgery equipment and skin)
- Eye drop
 - Riblis (HA 1mg/mL)
 - Riflu (Fluorometholone 1mg/mL)
 - Ridifen (Ketotifen 0.5mg/mL)
- Oral
 - Alniz Tab. (antipeptic ulcer drug)
 - E–Stine Cap. (antitussive expectorants)
 - Nizlevocetirizine dihydrochloride Tab. (Antihistamine)

HUONS NATURAL – Business and Product of HUGROUP



M&A
(2016.05)



“Role as a production base of health functional food”

- Location : Jincheon–gun, Chungcheongbuk–do
- Main product : Product using natural ingredients
- Certification : HACCP, GMP for excellent health functional food

HUONS NATURAL - Business and Product of HUGROUP

Huons Natural: R & D

Health functional food

Product name	Efficacy	Launching schedule	Status
Honey bush extract	Improvement of wrinkles	1Q 2017	Completion of clinical study

Honey bush extract

① Information

Raw material	Honeybush: Known as anti-aging effect
Nomenclature	Cyclopia intermedia E. Mey. (Leguminosae)
Edibility	Positive
Basis of edibility	http://www.itmonline.org/arts/honeybush.htm
Main ingredient	Flavanone(hesperidin), Xanthone(mangiferin)
Indication	Skin wrinkle improvement + Elasticity improvement

② Patent

Completed	Korea	Composition for skin wrinkle improvement containing honey bush extract or fermented liquor thereof as an active ingredient
	PCT (EU & USA)	Composition for preventing or alleviating skin wrinkles containing honey bush extract or fermented liquor thereof as an active ingredient
Under application	Korea	Composition of cosmetic for skin moisture and of food supplement containing honey bush extract, fraction or fermented material as an active ingredient
	PCT	Composition for skin improvement containing fraction from honey bush extract and compound thereof

③ Clinical Test

Individual acceptance for skin health (Maintenance of skin health from damage by UV)
 – Non clinical including toxicity test
 – Human application
 Prominent/unprecedented efficacy of clinical trial test in health functional foods

Multiflora Fruit Extract	Prevention of rhinitis	Dec, 2017	Under process of clinical trial
Lactic acid	Atopy dermatitis	Jun, 2018	Planning clinical trial

General food

Product name	Efficacy	Launching schedule	Status
Hematocus	Antioxidant (astaxanthin)	Oct,2017	Under development
Curcumin	Maximum bioavailability	Feb, 2017	Under development

Status of global business

Expand export with highly qualified products manufactured in the level of cGMP

