

# Korean Government's Policy Direction for Promotion of Korea's Health Industry

(Pharmaceutical & medical device)



### 1. Importance of HT industry



Growing demand for HT is expected due to aging population, rising income, and strong interest in health.

Pundamental solution for tackling rising medical cost

Korea ranks no.1 in medical cost growth rate (8.7%), and
 no.2 in drug expenditure growth rate (10%) among OECD members.

3 Far-reaching effects on economy

The HT industry can lead related industries, including manufacturing, education, finance, and communications, and address the issue of economic growth without employment

### 1. Importance of HT industry

- Developed nations are fostering the HT industry as a strategic industry in the post-IT era.
  - NIH Roadmap (\$31.2 billion in 2010, 50 thousand projects in 3 thousand institutions), commercialization of medical R&D
  - 7th Framework (FP-7 Health) investing €9.5 billion, IMI (€2 billion, pharmaceutical companies accounting for 50%)
  - Japan

    New strategy for growth (medical tourism, development of medical institutions, etc.), supporting R&D in five major sectors in response to the aging population

#### **\* US HT industry expected to create more jobs than any other sectors**



Source: CEA aggregations of Inforum LIFT Model Industry Projections. Note: Totals do not include jobs in agriculture, forestry, and fisheries.

#### 2. Chronology of Korea's policies for promotion of HT industry

- ► In 2007, the "Strategy to enhance the competitiveness of pharmaceutical industry" was announced.
- ► In 2009, the bio pharmaceutical and medical device industries were designated as "New Growth Engines."
- ▶ In 2010, the "plans to bolster the competitiveness of the medical device industry" were announced.
- ► In 2011, the "Columbus project" to advance into the North American health care markets was initiated.

#### 2. Chronology of Korea's policies for promotion of HT industry

- ▶ In Jan. 2012, the "2012 plan to strengthen the competitiveness of the pharmaceutical industry" was established.
  - Implemented the Special Act on Pharmaceutical Industry Promotion and Support (Mar.)
  - Established the "Vision and strategy for the pharmaceutical industry" (briefed President, Aug.)
- ▶ In 2013, launch of the new Park administration
  - 1 Building creative economy is a policy direction of the new administration
  - ② 「Fostering HT industry as a new growth engine」 is a national agenda

3. Recent developments of policy for promotion of HT industry

1) Comprehensive approach to create a health industry eco-system

2) Highlighting a role in leading creative economy.

3) Entering the global market

With focus on building technology collaboration with leading companies in a global trend of open innovation

#### 4. Policy for promotion of pharmaceutical industry: background

#### Changing global pharmaceutical environment

#### 1) Growth in mid- to long-term expected



- 2) Restructuring of global pharmaceutical companies and spreading open innovation
  - o **Emergence of strategic cooperation** in response to patent expiration of blockbusters and shrinking productivity of R&D
    - \* e.g.) TEVA: established production lines of biopharmaceuticals: US Sicor ('04), Cephalon ('11) built a foothold for entering local generic markets: Spain Bentley ('08), Japan Taisho ('09), Germany Ratiopharm ('10)

Discovering markets for quality generics and expanding opportunity to develop innovative drugs through partnership with multinational companies

#### 4. Policy for promotion of pharmaceutical industry: background

### Rapidly changing business environment in Korea

- 1) Generic drug price adjustment, eliminating unfair distribution practices
  - Price reduction of generics by 14% for drug price rationalization (Apr.1, 2012)
  - Implementation of extensive measures to eradicate illegal rebates, which have been obstacles to innovation of the pharmaceutical industry
- 2) Pushing ahead with a vision and strategies for promotion of the pharmaceutical industry as a new growth engine
  - Designated biopharmaceuticals as a new growth engine (Jan. 2009), Implemented the 

    Special Act on Pharmaceutical Industry Promotion & Support (Mar. 2012)
- 3) Companies actively engaging in strategic partnerships with other companies to enhance competitiveness
  - In 2012, domestic companies agreed on M&A or strategic partnership with overseas companies.
    - : Kunwha-US Alvogen M&A (Sep.2012)
      - Handok-Israel Teva formed a joint venture (Dec.2012)

## 4. Policy for promotion of pharmaceutical industry: vision and goal

Goal: joining top 7 pharmaceutical powerhouses by 2020





#### 1) Active and open technology innovation

- ① Increasing the nation's R&D investment in the pharmaceutical sector: investment of ₩249.3 billion in 2013 (₩14.9 billion increase year on year)
  - With particular emphasis on the development of high-tech products, such as global innovative drugs and stem cell treatment
- 2 Expanding incentives to encourage companies to set first priority on R&D investment
  - Tax credit: expansion of the scope of corporate tax on R&D investment in new drug development in 2013 (vaccines, phase 1 and 2 clinical trials, innovative IMDs)
  - Finance of clinical trial costs: extension of the tariff exemption period on imported drugs for clinical trials (from 2012 to 2015)

#### 2) Bolstering global competitiveness of companies

- ① Providing funds to help companies engage in M&As with overseas companies, developing technology partnership, and securing local marketing networks and production facilities
- 2 Financing overseas technology development funds
  - Providing loans for phase 3 clinical trials conducted overseas for innovative drugs and biosimilar (Korea Eximbank)

#### 3) Improving institutional predictability

- ① Reforming the pricing mechanism for innovative drugs
  - Steamlining the listing process of innovative drugs
  - Enhancing consistency of evaluation standards and improving the guidelines for negotiating with the NHIC (Mar. 2013)
- ② Making the product approval process more efficient by taking into account specific attributes of drugs
  - Expansion of fast-track approval

#### 4) Establishing a large and transparent market

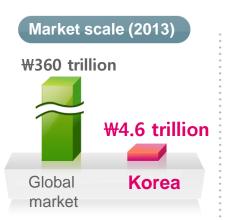
- 1 Building a one-stop service system for global market entry
- Providing support tailored to each phase of the drug development and commercialization process, including R&D of innovative drugs, information collecting and consultancy for global market entrance, patent and approval, and overseas marketing
- 2 Expanding G2G cooperation
  - Holding Pharm-Fair on a frequent basis targeting major strategic nations (inviting persons in charge of approval and influential buyers)
  - Establishing bilateral cooperation with nations that Korean companies are likely to enter (Poland, Columbia, Russia, Brazil, UAE, etc.)
- (3) Helping domestically developed medicines advance into pharmaceutical procurement markets of international organizations, including UN, UNITAID, and WHO PQ (provision of information)
- 4 Ensuring transparent distribution order in the nation
- Continuing efforts to eliminate illegal rebates, such as disclosure of rebate-offering company list, suspension of law-breaking hospitals and pharmacies (e.g., by revising the Medical Service Act and Pharmaceutical Affairs Act)
- Reducing the accounts payable payment period for medicines to three months (e.g., by revising the Pharmaceutical Affairs Act)

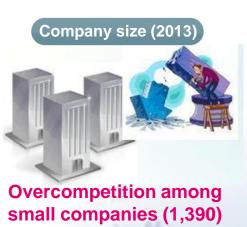
#### 5) Establishing infrastructure for industrial support

- 1 Training
- Short-term: 「PB 300 Project」 to attract overseas experts
- Mid- to long-term: 「PB 8,000 Project」 to train key experts
- 2 Creating infrastructure organizations to support new drug development
  - Fostering contract research organizations
  - Developing TLO (Technology Licensing Office) to facilitate commercialization of R&D outcomes
- **3** Establishing research-based hospitals
  - \* Building an open research system linking industry, academy, and institution within a hospital, 1<sup>st</sup> designated research-based hospitals (10 hospitals in Mar. 2013)
- 4 Building medical complexes and inviting companies to participate in the complexes
   \* Construction of core R&D facilities will be completed by the end of this year (₩194.3 billion in 2013)

# 5. Policy for promotion of medical device industry: background – situation in Korea

#### 1) Incompetent eco-system of medical device industry







#### **Technology trend (2011)**



Mainly manufacturing cheap and simple products for general use

- Generally manufacturing household products rather than cutting-edge products
- Lack of an ecosystem where companies can develop into high-tech companies
- \* closed environment lacking linkage with other industries

#### 5. Policy for promotion of medical device industry: background - situation in Korea

#### 2) Recent positive developments under unfavorable environment

#### **Growth potential in IT convergence products**

- Highly advanced Korea's IT-based products, such as ultrasound imaging device, dental equipment, and PACS
- Ultrasound imaging device manufactured by domestic companies most ranking no. 1 market share in global obstetrical and gynecological markets
- Dental equipment ranking top led by such as Vatech and Osstem Implant
- PACS: one of the top 2 and highest penetration rates with domestically developed technology



#### Improving R&D infrastructure and technology

• Rising R&D investment in medical device industry made by public and private sectors

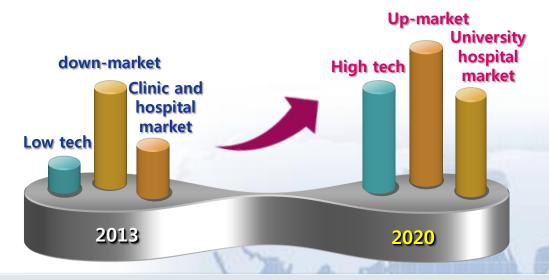


- . Narrowing the technology gap over the **last three years (2008-2010)**
- Medical sector (1.9 yrs),- Bio sector (1.7yr
- Medical device development technology (3.5%),
- Biochip sensor technology (4.7%)

### 5. Policy for promotion of medical device industry: vision and goal



Global competitiveness: 11<sup>th</sup> (2013) → 7<sup>th</sup> (2020)





#### 5. Policy for promotion of medical device industry: strategy

#### 1) Active and open technology innovation

- ► Increasing national R&D
- Doubling the current R&D investment of the government by 2017
- Proactive investments aiming to dominate the global market
- \* Mid- to long-term projects on a large scale for development of high-end medical devices and medical devices specialized in niche markets, support for assessment and convergence products to dominate new markets

### 2) Bolstering global competitiveness of companies

- ► Encouraging specialization of companies: designating and supporting leading and promising companies
  - \* R&D/tax credit/finance under the "Medical Device Industry Promotion Act"

#### 5. Policy for promotion of medical device industry: strategy

#### 3) Improving institutional infrastructure reasonable and efficient

- **1** The "Medical Device Industry Promotion Act"
  - \* Foundation for introduction of the accreditation system for leading and promising products, and a fiveyear-master plan to foster the industry
- ② Supporting early introduction of new products to markets: streamlining the premarketing process, such as approval and HTA
  - \* Tentatively assessing and designating new health technology which is proven safe but lacks evidence of effectiveness, thereby allowing hospitals to review the early adoption of the technology

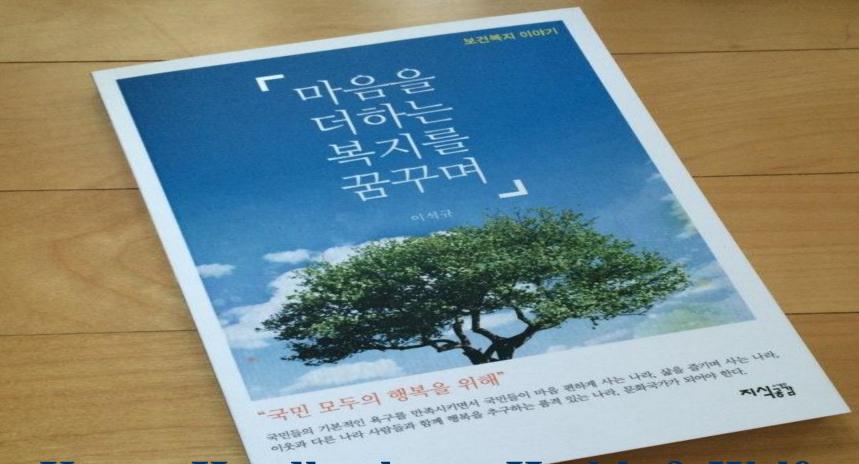
#### 4) Establishing a large and transparent market

- **1** Growing confidence in domestically manufactured medical devices: supporting tests of new products
- ② Supporting global marketing: participation in establishing new hospitals in Middle East, Southeast Asia, Africa, etc.
  - \* G2G cooperation to facilitate export of hospitals and to streamline the approval and customs process
  - \* Inviting MDs from Southeast Asia and training for adoption of outstanding domestically produced medical devices
- (3) Ensuring fair and transparent distribution order: eliminating illegal rebates and false claim of reimbursement

# 5. Policy for promotion of medical device industry: major strategy

#### 5) Building infrastructure for industrial support

- **1** Attracting and training promising professionals to develop and market medical devices
  - Supporting establishment of graduate schools specialized in the medical device industry
  - Encouraging small and mid companies to utilize MDs
- **②** Accelerating efforts to invite companies by creating medical complexes
  - Completing construction of core facilities, including support center for high-tech medical device development (prototype development), animal lab (non-clinical support), and clinical trial center (clinical trial)
  - Partnering with the "Wonju Medical Industry Techno Valley" and the "Gumi Medical Device Component Manufacture Complex"



### Korea Handbook on Health & Welfare

- Dreaming of mindful Welfare Society -

Lee, Suk Kyu



