

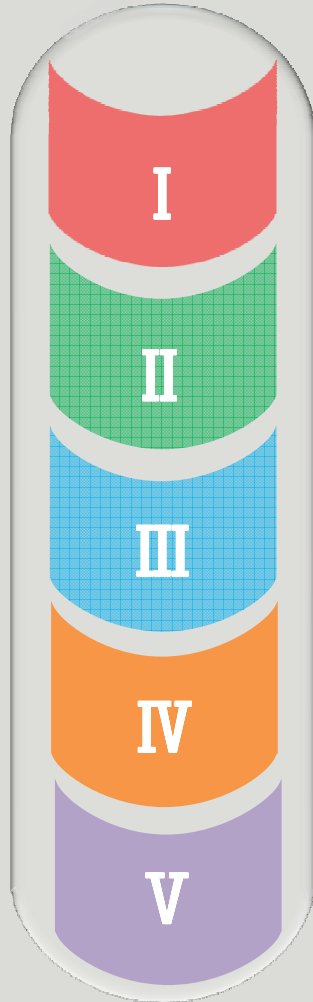
Changes in Korean Chemical Management Policy and Industry Action Plan



Korea Chemicals Management Association

Vice Chairman Jee-Yoon, LEE

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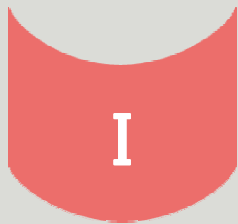
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Management Act**

Domestic Industry Action Plan



Introduction of KCMA

1. History and Aim of KCMA

- ✓ **KCMA was established under the “Toxic Chemicals Control Act (TCCA)” in 1991 March.**
- ✓ **Consisting over 1,200 member Companies from variety of Chemical business**
- ✓ **Protecting public health and environment, and enhancing global economic of the chemical industry**

2. Main role of KCMA



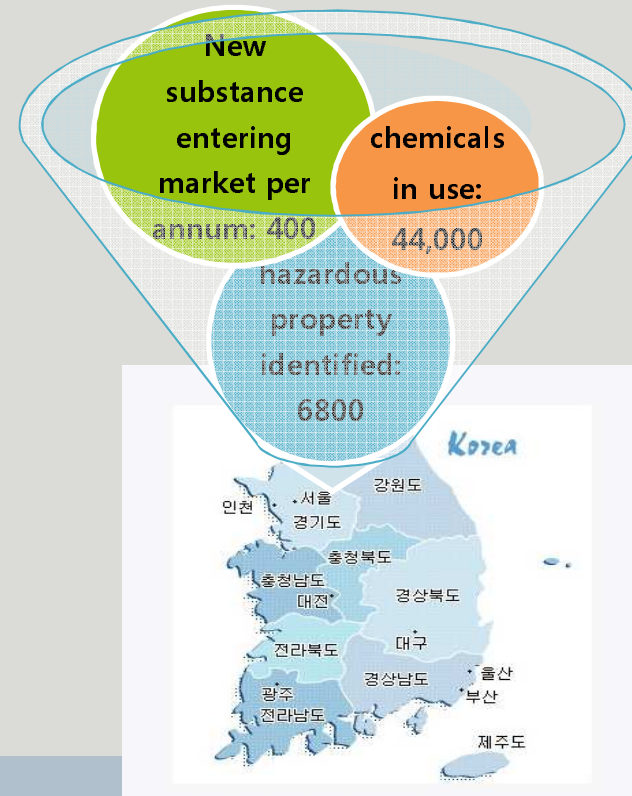
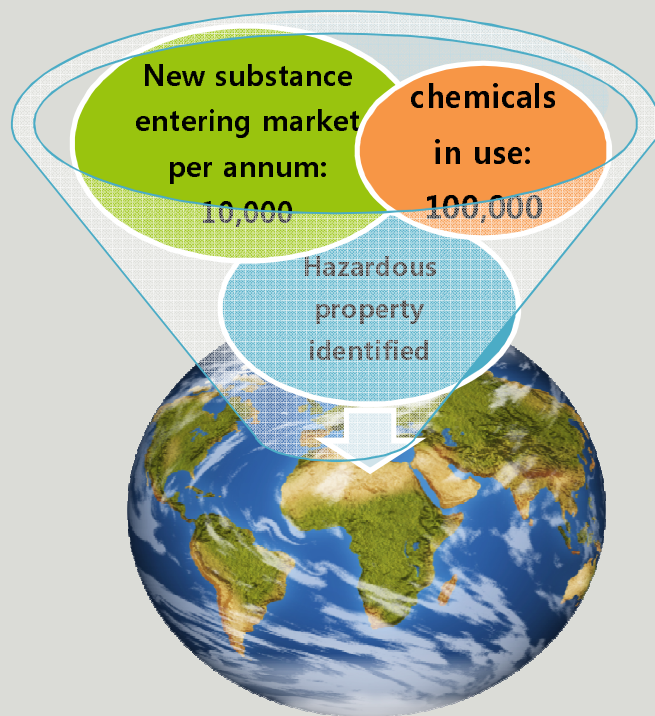
- ◆ Government commissioned project as stated under 『Toxic Chemicals Control Act』
- ◆ Research projects on chemical management policies, technology development
- ◆ Information dissemination, education and training, technical support for chemical safety management
- ◆ Industry support for compliance of international chemical regulations
- ◆ Technical support for registration of chemical substances under 『Act on Registration and Evaluation, etc. of Chemical Substance』

II

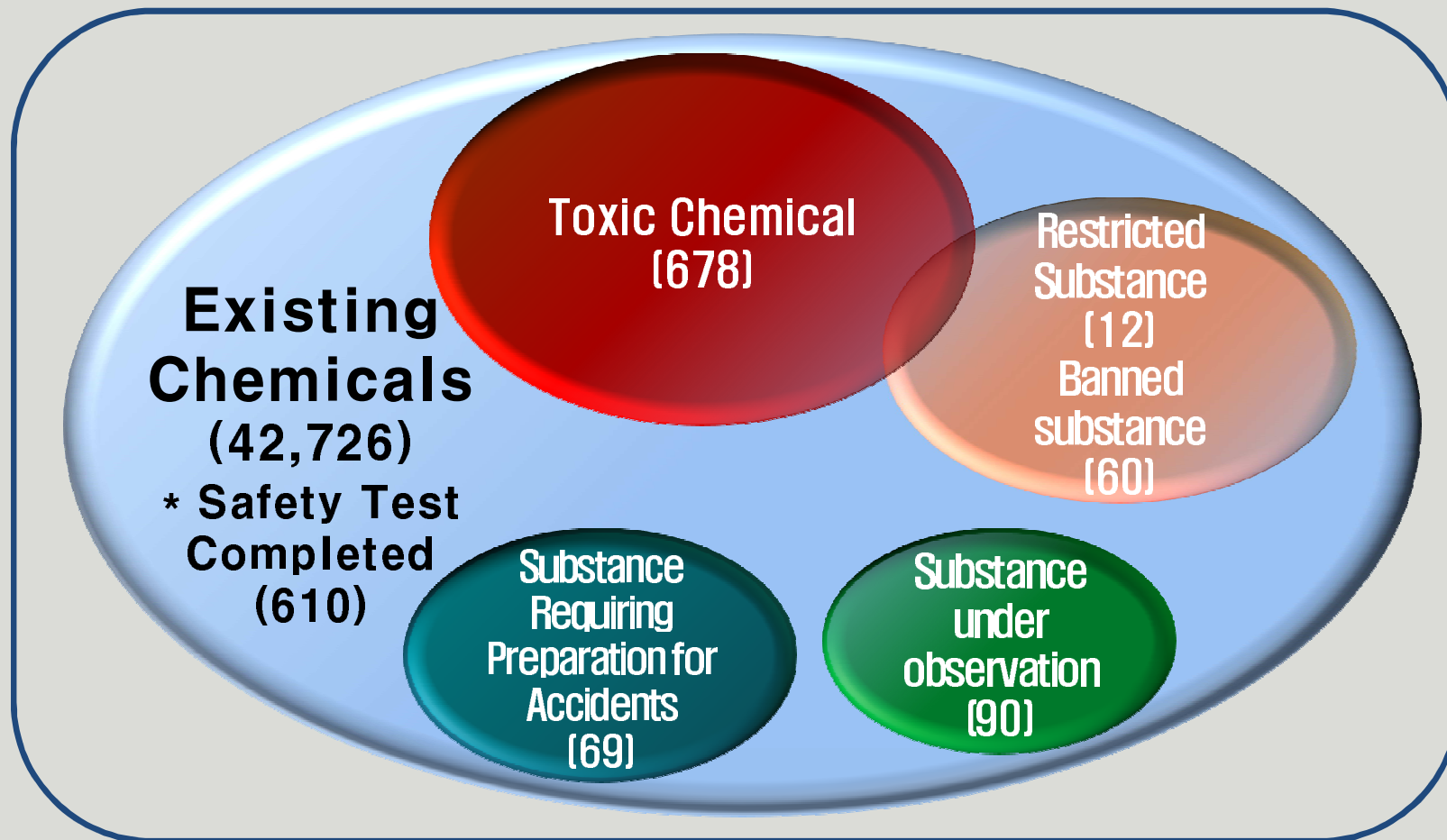
Circulation of Chemicals In Korean Market

1. Circulation of chemical substances

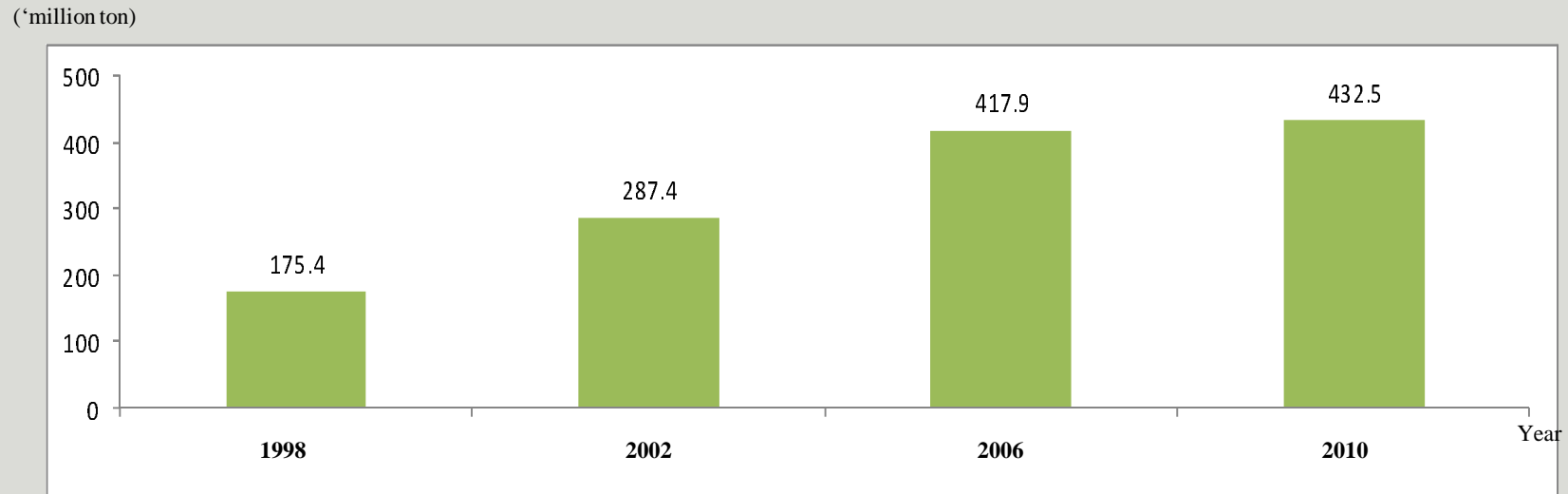
- 44,000 chemicals circulated in Korean market
- 300 new substances enter domestic market annually
 - Only around 6,800 substances (15%) have a part of hazardous property identified



2. Regulated Substance (2013. Oct. present)



3. Circulated Chemical Volume



< Circulated Chemicals Volume per year >

➤ **South Korea was ranked top 5 in chemical sales (source: Cefic 2011)**

* **Top 5 countries in sales during 2011 (€billion) :**

China 734.8, USA 408.7, Japan 175.3, German 156.4, South Korea 118.3

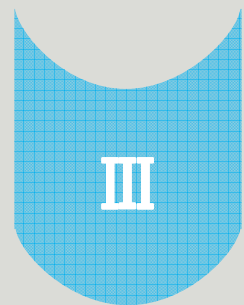
4. PRTR (Pollutant Release and Transfer Register)

➤ PRTR and information disclosure

- Encourage companies' voluntary reduction and disclosure of companies for implementation of OECD recommendations
- Trial disclosure carried out since 2008, **full disclosure in 2010**(4,010companies)
- For effective network between company and resident, **Risk Communication** was established



< Chemical Emission Reduction Trend of Disclosed Company >

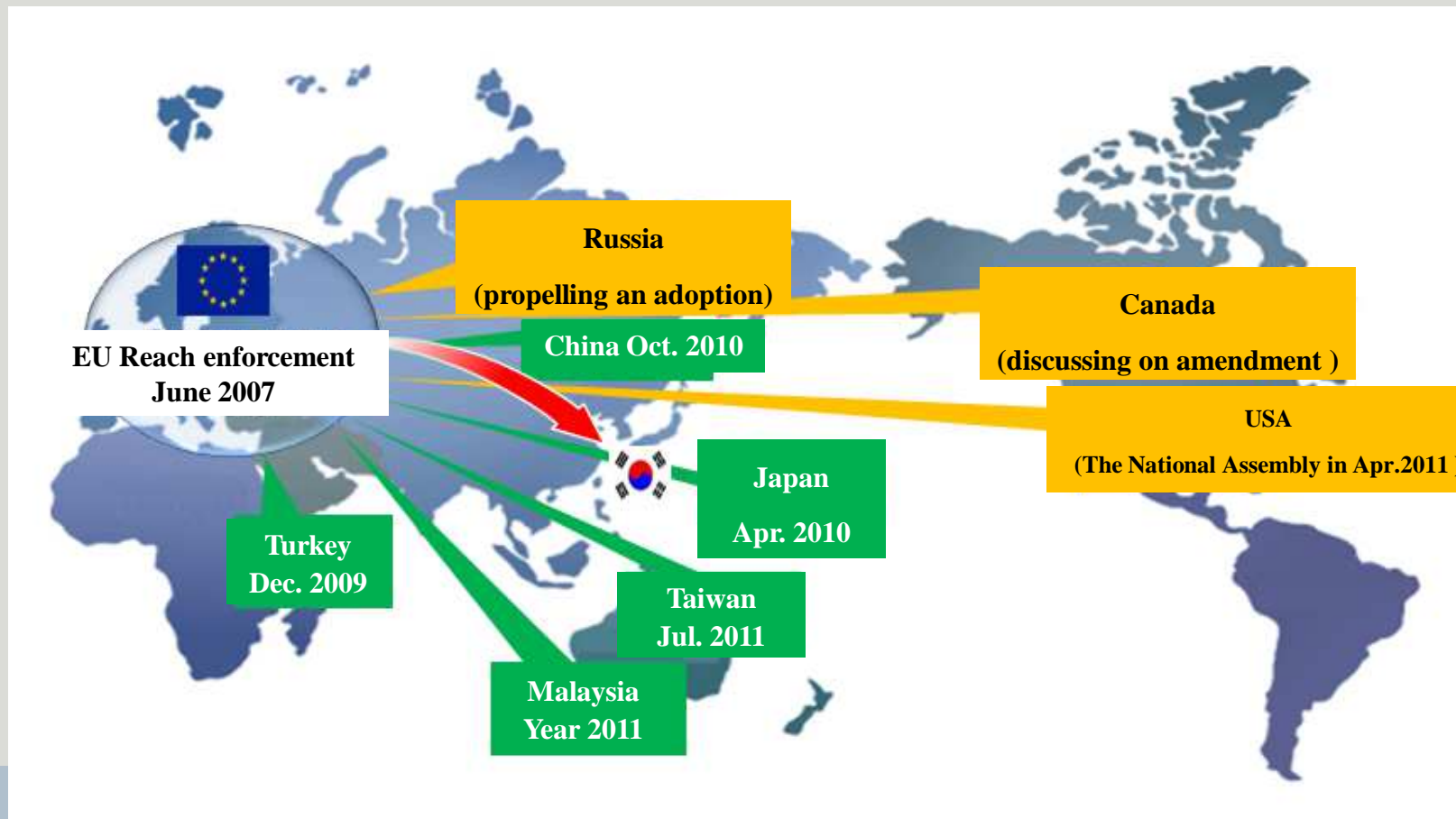


Recent Chemical Related Issues in Korea

1. Reinforcement of Global Chemical Management

- After legislation of EU REACH, Japan, China and other important trading countries reinforced chemical management policies
- According to UNEP SAICM, establishment of implementation plan to reduce hazardous effects of chemicals by 2020

* Submission of National Implementation Plan by Korean MoE in 2011



2. Humidifier Disinfectant Accident

➤ Background

- Chemicals used in humidifier disinfectants were exposed to users through inhalation. Breathing in the vapor resulted in injury to the respiratory system and death
 - * Approximately 120 pregnant women and infants are presumed to have died due to lung damage

➤ Results

- Raising awareness of the importance in confirmation of every chemical being used
- Highlight importance of exposure assessment and regulation of products according to its purpose of use
- Citizen's request to regulate household products considering its composition, content, and risk
 - * According to Public Opinion Poll(2012.Feb.01, 1,000 participants), 93.5% have agreed to the introduction of Chemicals registration, evaluation system



3. Public Anxiety Arising From Chemical Accidents

➤ Background

- Valve was accidentally opened by workers while attempting to transfer 99% concentrated hydrofluoric acid to another tank at a factory on 2012 .Sep. 27
- Because the workers were killed on site, exact cause of the accident is difficult to identify, 8 tons of hydrofluoric acid was released
- 55.4 billion won financial aid from the government for 5 deaths and 23 injuries, medical treatment for residents, compensation for damages to farmland and livestock animal

➤ Results

- Increasing distrust of residents to chemicals and chemical industry
- Establishment of comprehensive system for chemical accident prevention, preparedness and response needed

