



Establishment of Master Plan for Capacity Building of Science, Technology and Innovation Parks in Colombia

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Final Reporting Seminar*

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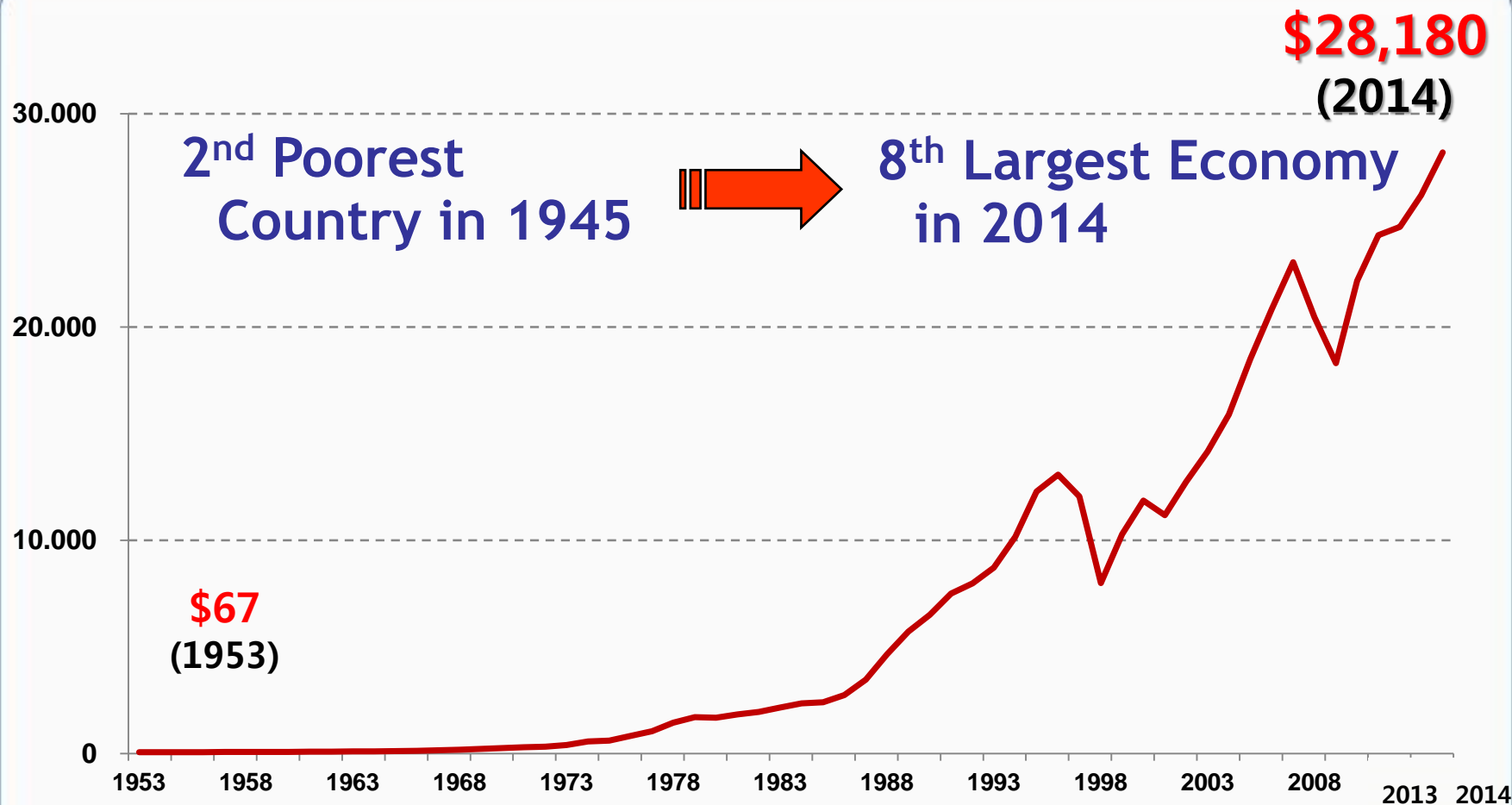


Contents

- **Korean Strategy**
- **Project Overview**
- **Major Achievements**
- **Remaining Challenges**



Korea's Economic Development, 1953-2014

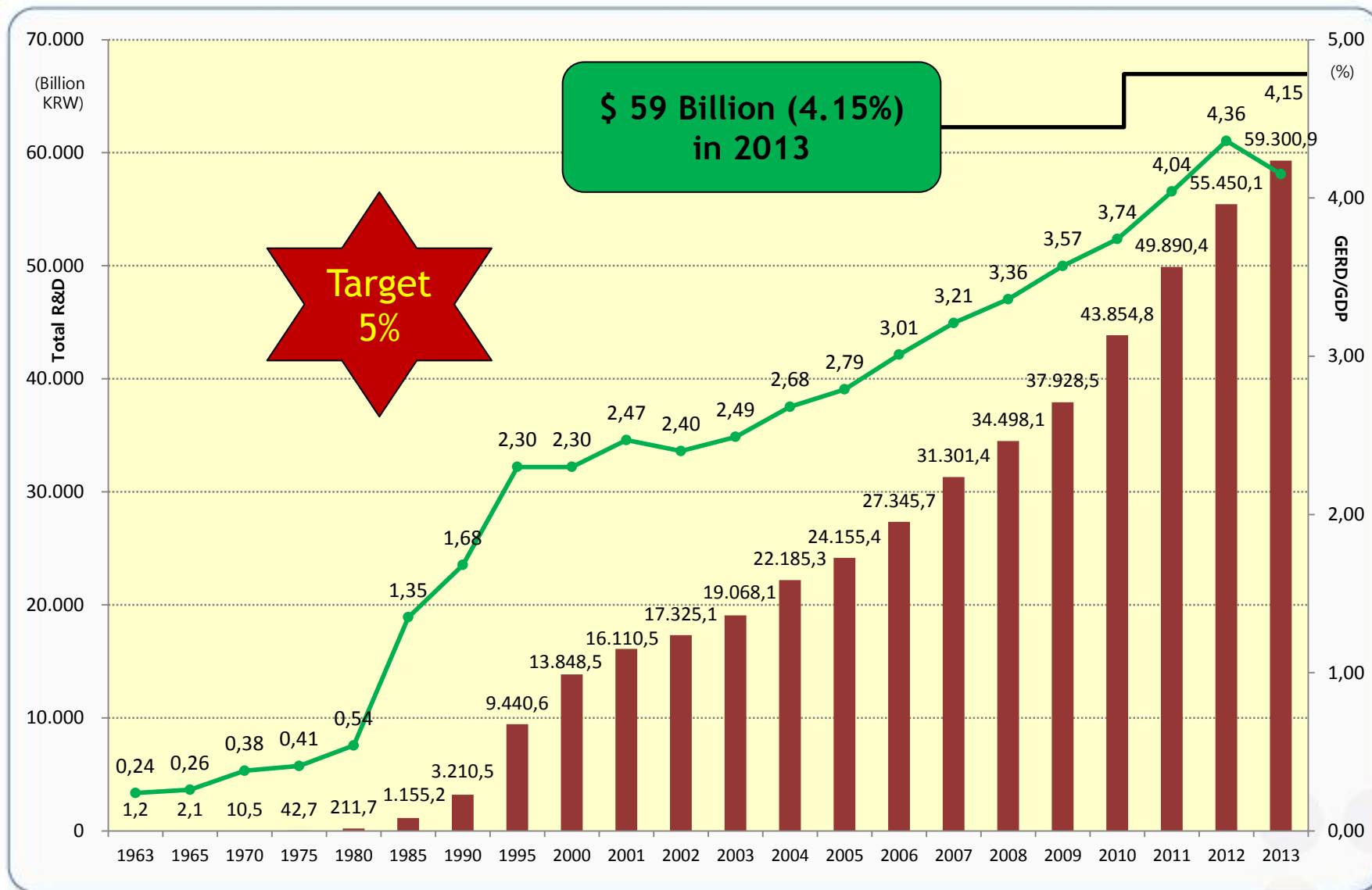


Source: The Bank of Korea

- 1953-1970: Per Capita GNP (current US\$, 1975 base year)
- 1971-2010: Per Capita GNI (current US\$, 2005 base year)



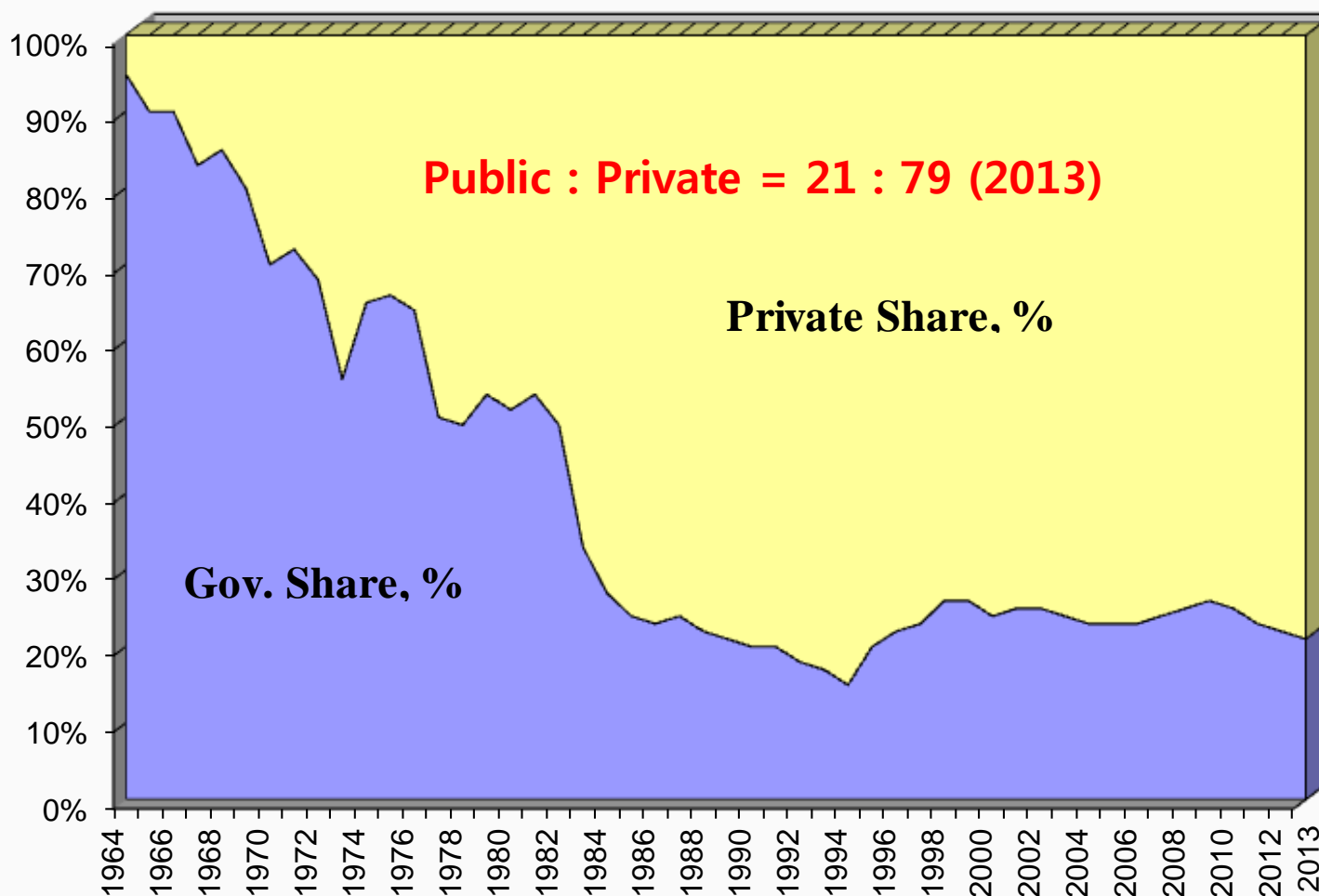
Trends of Total R&D Exp. and R&D/GDP in Korea





Trends of Public vs. Private R&D Investment in Korea

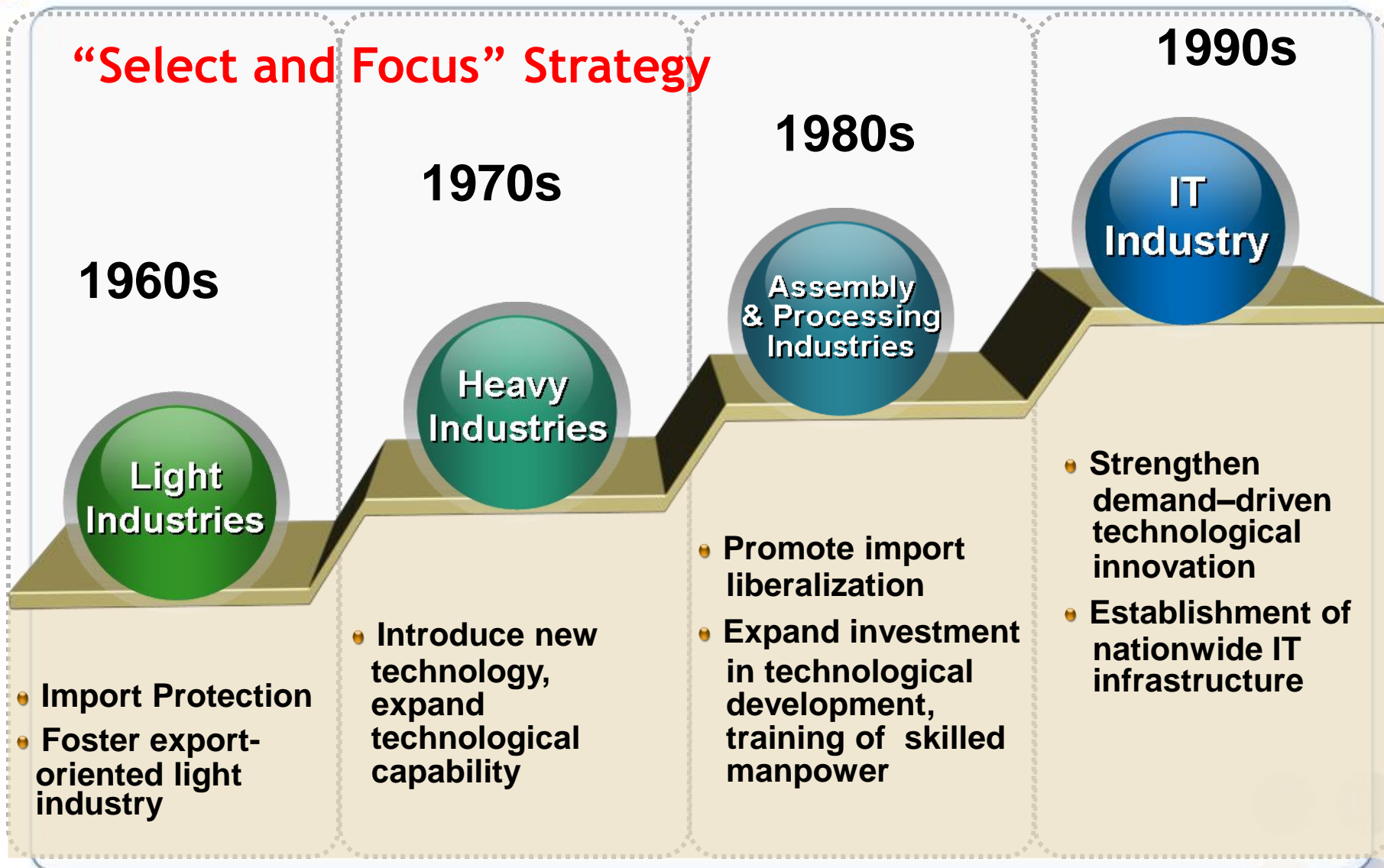
Promoting Private R&D Investments





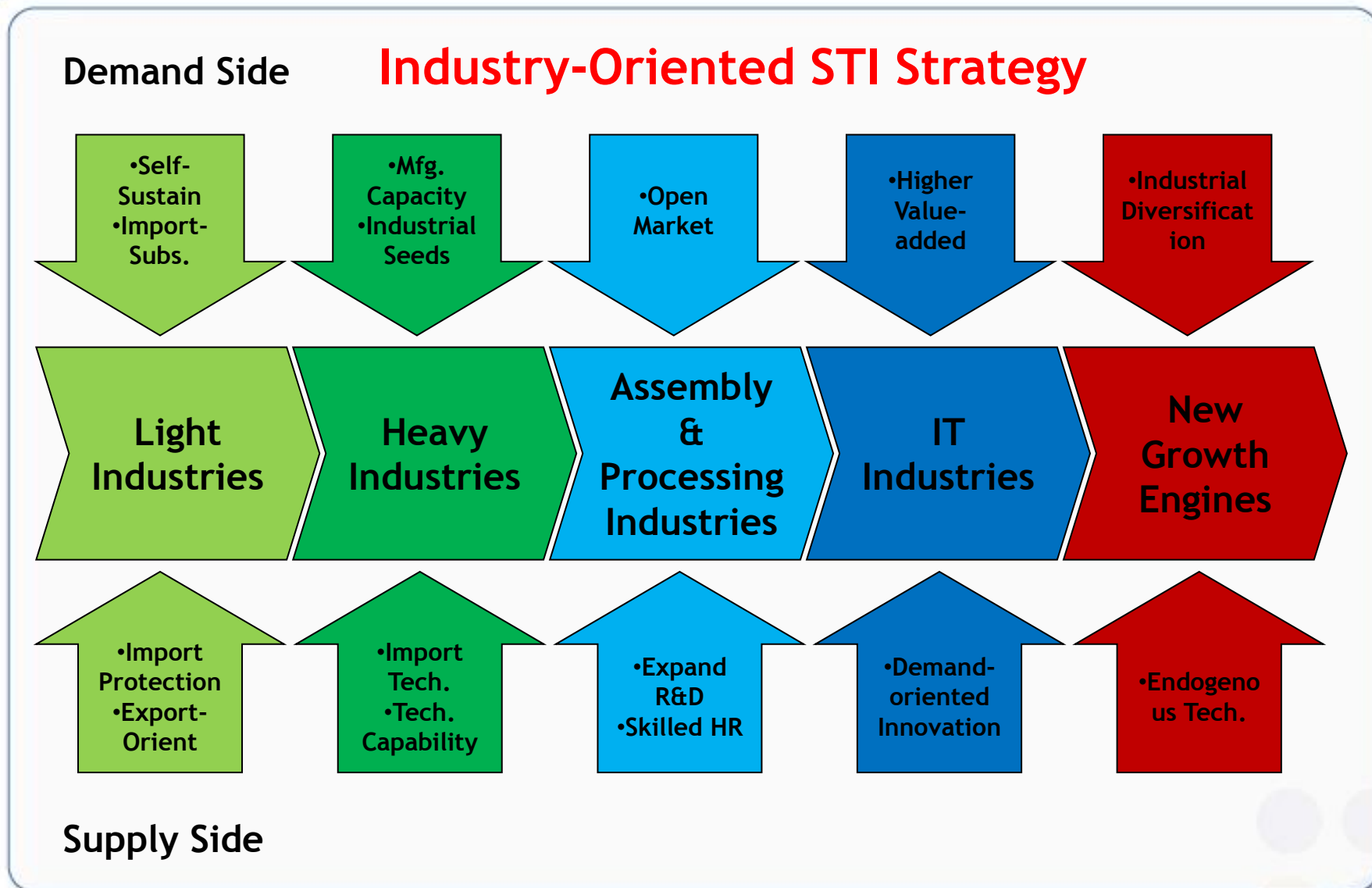
Industrial Shifts and S&T Policies

“Select and Focus” Strategy

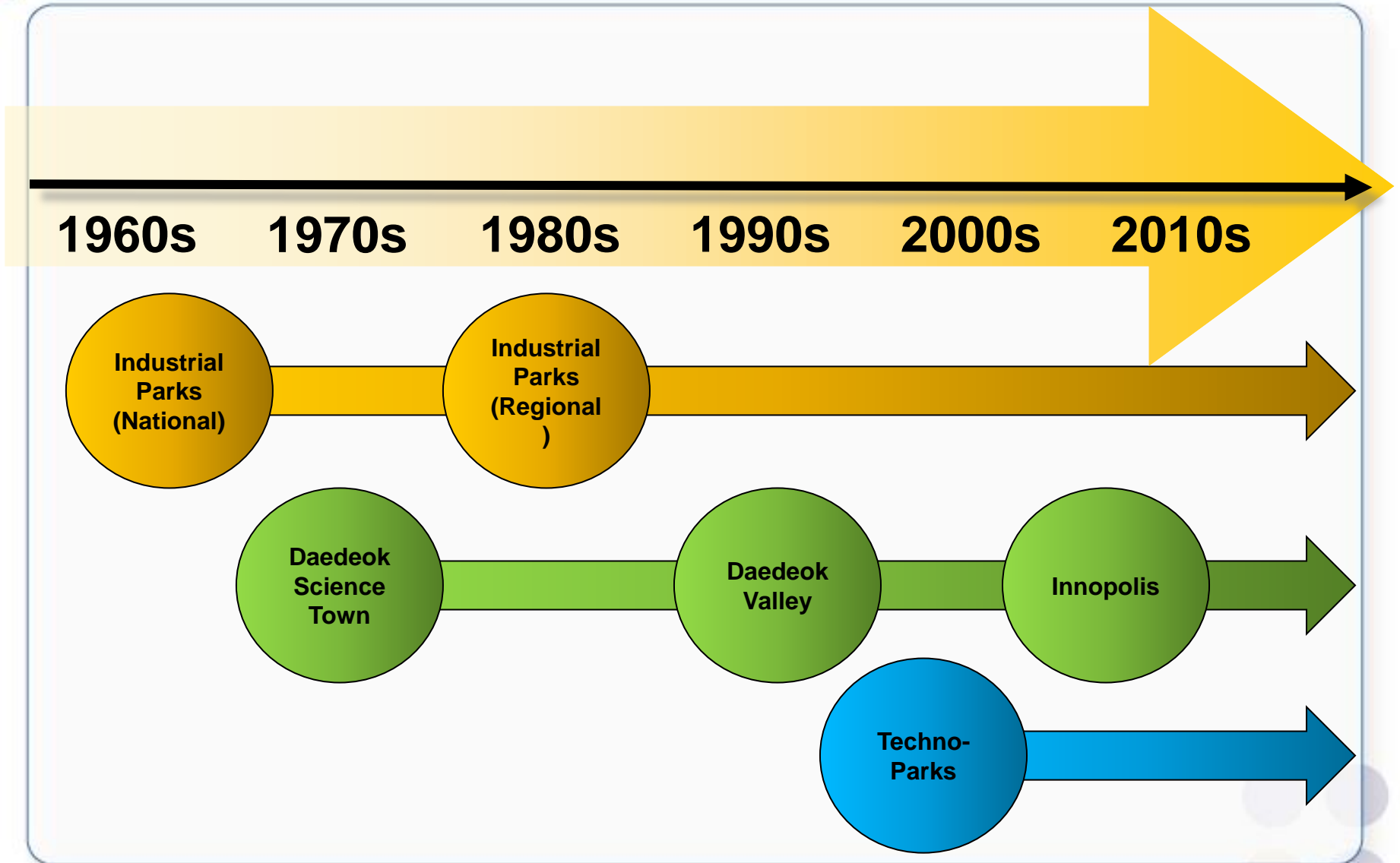




STI Meets Industrial Demands

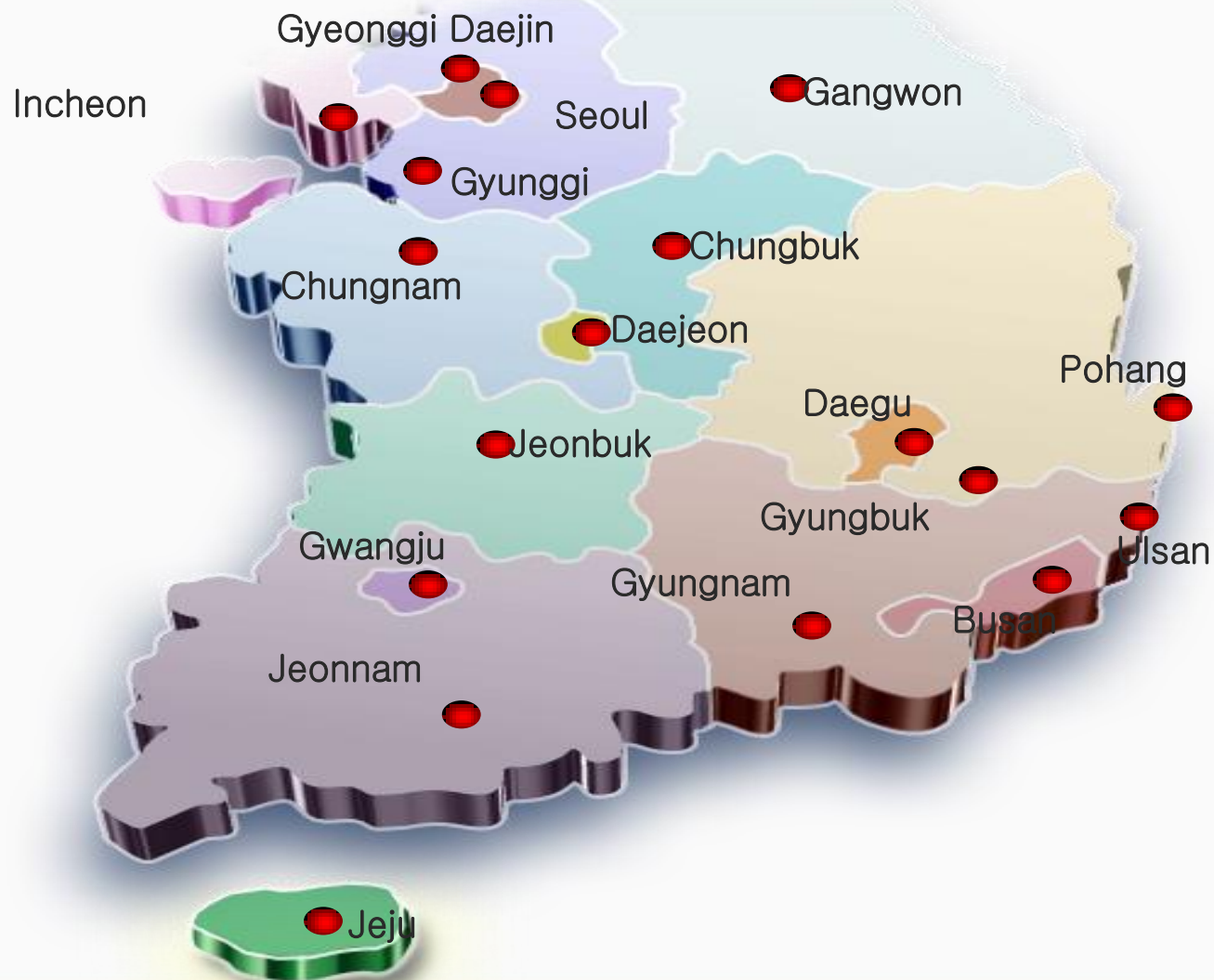


Regional Innovation for Development





18 Techno-Parks in Korea





Coordinated Scheme for Regional Innovation





Lessons from Korean Experiences

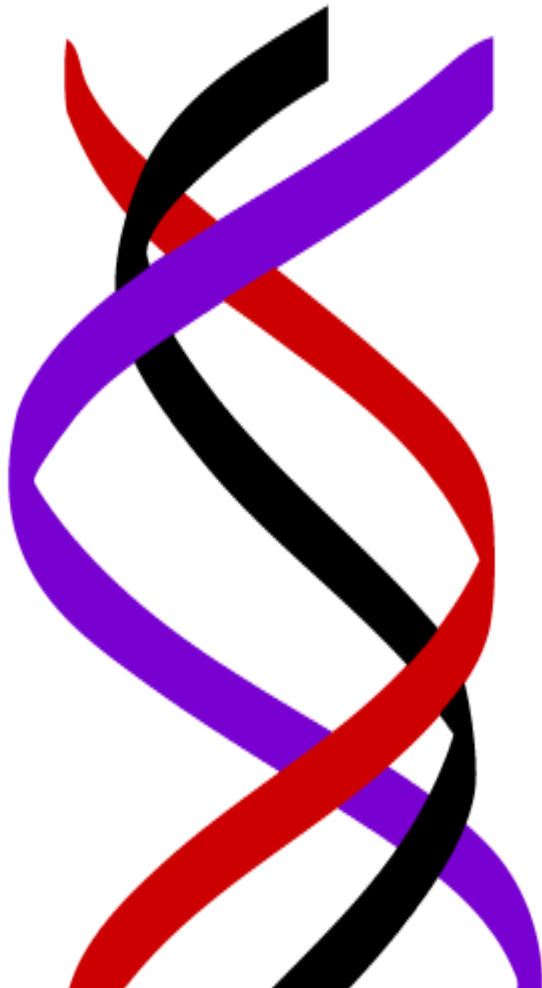
- **“Select and Focus” Strategy**
 - Under the limited Resources, It’s not an Option but a Must
 - Strategic Industries at the National level and Regional level
- **Industry-Oriented STI**
 - STI Focused on Industrial (Technological) Demands
 - S&T for Innovations
- **National-Regional Coordination**
 - Regional Inclusive Innovation
 - Innovation as a Main Tool for Regional Development
- **Supported by Policy Capacity**
 - Korean STI Policies (Plans) were largely supported by Professional Policy Experts
 - Enabling Long-term Plan
 - Policy Think-tanks at National and Regional Levels



Applying Korean Lessons in Colombian Context

- **Concept: S&T + I**
 - Promoting Industrial Innovation based on S&T
 - Functioning Industrial Park as well as Techno Park
- **National-Regional Partnership**
 - National Gov. Provides Overall Guidelines and Strategy
 - Regional Gov. takes Leadership in Establishing STI Park
- **Public-Private Partnership**
 - Need Private Sector Participation
- **Redirecting GSR**
 - 10% of Royalties are the main source for STI Park
- **Regional Strategic Industries**
 - STI Park should focus on Regional Strategic Industries
- **Bring out University Researchers**
 - Regional Universities should serve for Regional Strategic Industries

Triple Helix for Regional Innovation



- **Government**
 - Regional Governments
 - Public Research Institutes (PRIs)
 - Research for Public Purposes
 - Applied Research
- **Universities**
 - Supply S&Es
 - Curiosity-driven
 - Basic Research
- **Firms**
 - Commercialization
 - Produce Innovations
 - Development Research

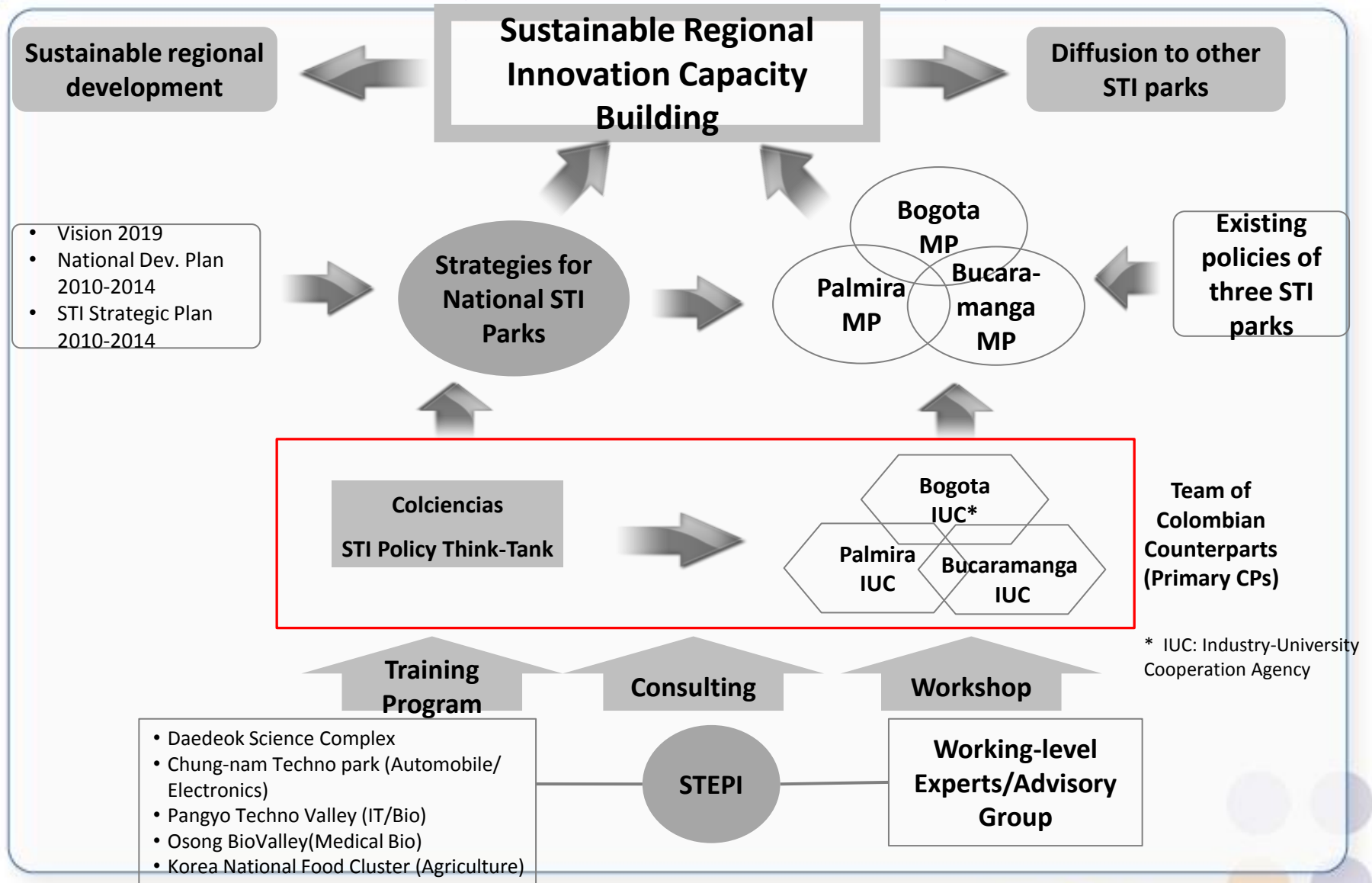


Project Overview

- **Project Period : 2014. 06. 01 ~ 2016. 05. 31 (2Y)**
- **Target Area : Three Regional STI Parks in Colombia**
 - **Bogota** : Bogota STI Park / Focused on IT Sector
 - **Palmira** : Technology Park of BioPacipico / Focused on Agriculture & Life Science
 - **Bucaramanga** : Technology Park of Guatiguara / Focused on Energy
- **Purposes of the Project**
 - 1) **Capacity building** for the Colombian STI policy planning and implementation
 - 2) Support development of **Master Plans** for Three STI Parks
 - 3) **Capacity building** of human resources for STI parks
 - Training Program (Korea) &
 - Local Workshops (Colombia)



Project Structure (for Capacity Building)





Main Activities I

- **1st Visit**
 - July 4 - Aug. 2, 2014
 - Initial Visits to All Focused Areas
 - Diagnosis on Current Status of Colombian STI Parks
- **2nd Visit**
 - Sept. 19 - Oct. 4, 2014
 - Identification of Colombian Team (Working Groups)
 - Agreed on Basic Directions
- **1st Invitation to Korea**
 - Nov. 17 - 28, 2014
 - Overview of Korean System for STI Dev.
 - Understanding of Korean Techno-Park System



Main Activities II

- **3rd Visit**
 - Jan. 11 - Feb. 9, 2015
 - Developing Drafts of National Strategy and MPs
 - Discussion on Lessons from Korean Approach and Localization to Colombia
- **4th Visit**
 - July 25 - Aug. 27, 2015
 - Public Hearing on Interim National Strategy and MPs
 - Attracting Public Attention on STI Parks
- **2nd Invitation to Korea**
 - Sept. 14 - 25, 2015
 - Training on Policy Dev. And Operation of Techno-Parks
 - Workshops on Colombian National Strategy and MPs



Main Activities III

- **5th Visit**
 - Feb. 22 - Mar. 9, 2016
 - Review of National Strategy and MPs Progress
 - Focused Workshops with Colombian Team
 - Meetings with High-level Stakeholders for Enhancing Implementability and Sustainability
- **6th Visit**
 - May 16 - May 27, 2016
 - Final Reporting Seminar
 - Meetings with High-level Officials and Stakeholders for Support
 - Discussion on Follow-up Tasks and Future Challenges



Major Achievements

- **Article 12 of National Development Plan**
 - Define the Concept of STI Park
 - Require to Develop National Strategy for STI Park
- **National Strategy for STI Park**
 - To be announced soon (July 2016?)
 - Provide National Framework for Promoting STI Parks
- **Master Plans for 3 Pilot Regions**
 - Provide Vision Map targeting Regional Strategic Industries
 - Develop Action Plan with Specific Programs
- **Improved Public Understanding on STI Park**
 - Draw Greater Attention of Regional Stakeholders
- **Capacity Building and Strengthening**
 - Colombian Team => Future Champion
 - Critical Role in Diffusing STI Park Model to other Regions



Remaining Challenges

- **Implementation**
 - Enforcement of National Strategy
 - Making Pilot Cases Success
 - Securing Sustainable Funding Sources
- **Institutional Capacity Building**
 - Building & Strengthening Managing & Operational Capacities of STI Parks
 - Improving Strategy Dev. Capacities for Regional Dev.
 - Strengthening Policy Dev. Capacities at National & Regional levels
- **Diffusing Pilot Model to Other Regions**
 - Support Potential Regions in Developing MPs for STI Parks
 - Transfer Tacit Knowledge to Other Regions



Muchas Gracias!