TECHNOLOGY AND INNOVATION IN KOREA

KOREA IN PRESENT

- South Korea become a developed country
- South Korea’s position as one of the world’s most innovative nations
- South Korea is a king of innovation and technology

KOREA WAR

- Korean war Between 1950-1953
- Fought between north and south Korea
- The United States and the Soviet Union divided Korea along the 38th parallel into two zones of occupation.
- Fighting ended on 27 July 1953 when the Korean Armistice Agreement was signed.

MIRACLE OF HAN RIVER

- After the Korean war
- The period of rapid economic growth in South Korea.
- Make Korea become a developed country
- Between1953-1996
- Bak Jeonghui

BAK JEONGHUI

- Between 1961-1979
- KCIA(Korea Central Intelligence Agency)
- Bak has established 4 agencies to supervise the efficiency of economic development
- Five year plan

CHAEBOL

- large industrial South Korean conglomerate ru and controlled by an individual or family.
- Samsung, Hyundai, SK Group, and LG Group a among the biggest and most prominent chaebo
- Established in 1950 and 1960
- Exports from the huge multinational chaebol continue to drive the Korean economy

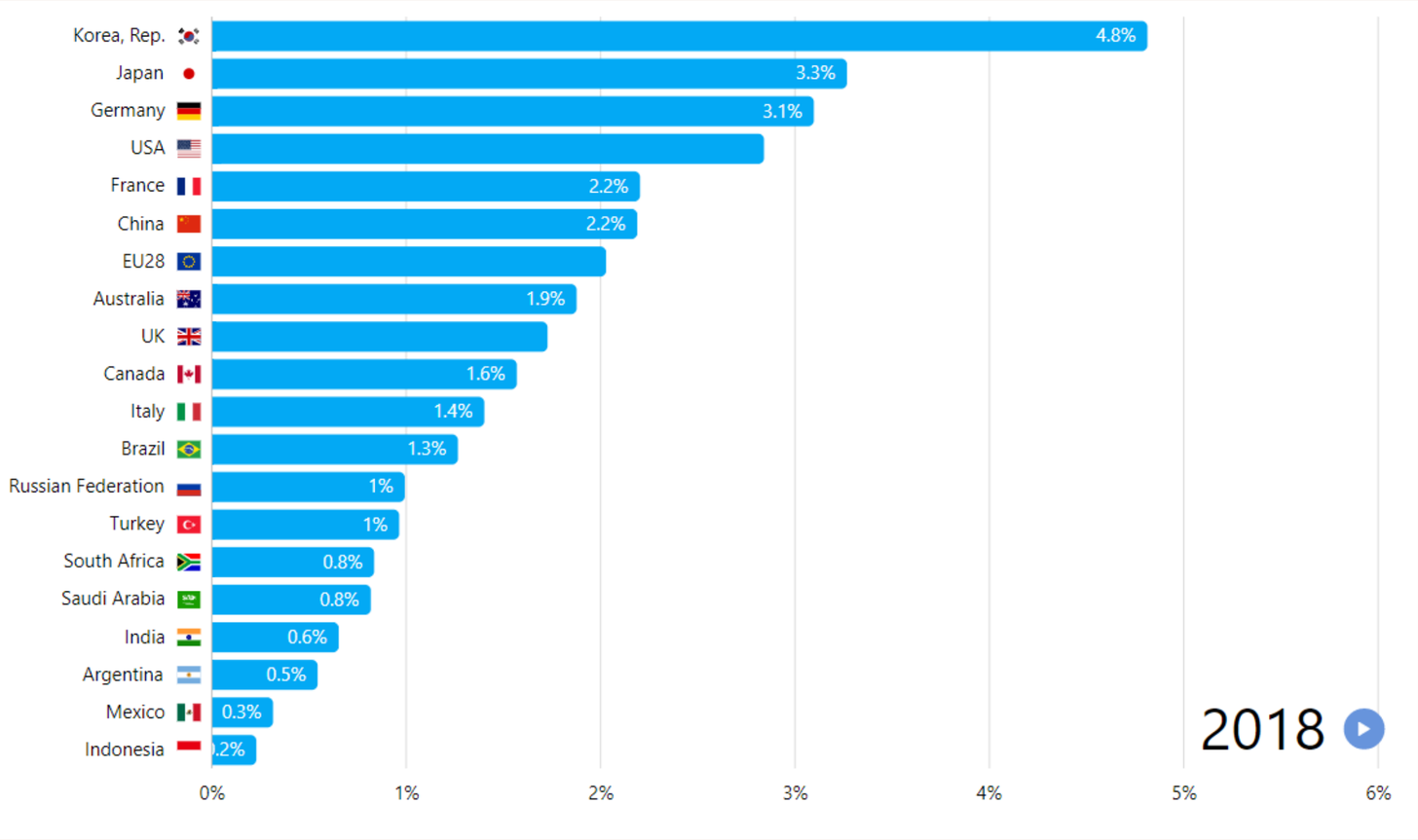
R&D IN KOREA

INSTITUTION OF SCIENCE AND TECHNOLOGY

- ESTABLISH IN 1966
- GOAL:TO BE THE CENTRAL ROLE OF THE RESEARCH AGENCY

Korea Institute of Science and Technology

GROWTH IN R&D SPENDING



ROLE OF GOVERNMENT IN SCIENCE AND TECHNOLOGY

1960

- establish scientific institution
- five years economics plan includes S&T

1970

- setting scientific infranstructure
- R&D promotion act

1980

- promoting private labs
- promoting industrial R&D

1990

- promoting cooperative R&D
- policy coordination
- GRI restructure

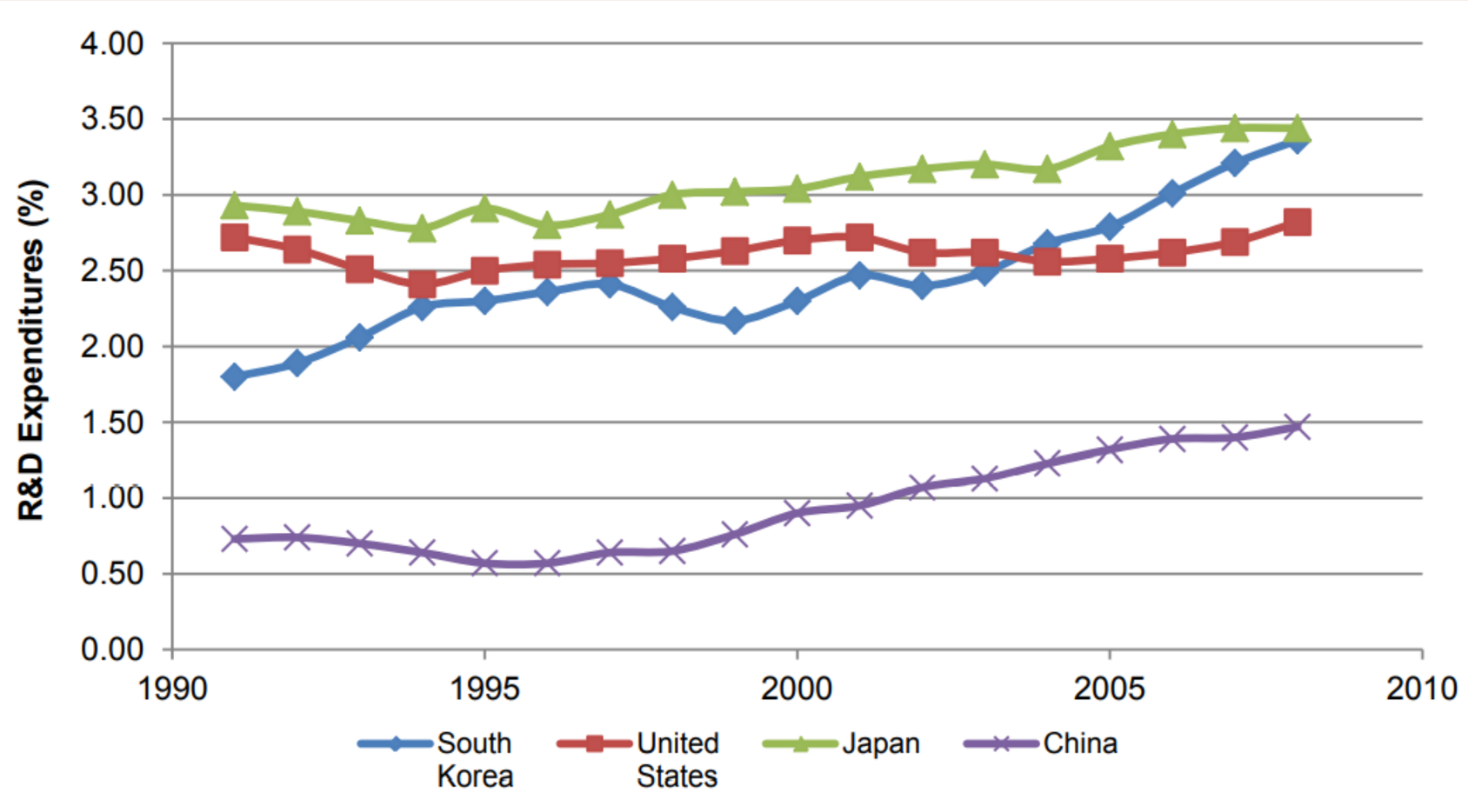
THE INNOVATION POLICY

- newly science and technology institution has more power to allocate government budget
- technology area selected for long-term funding

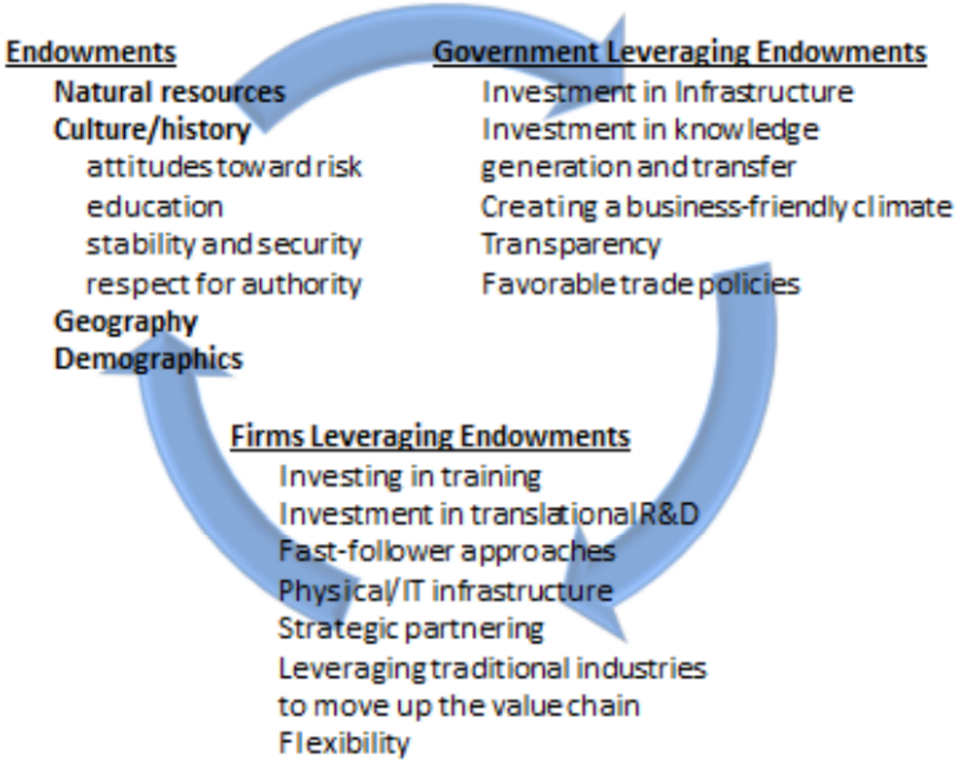
OPERATION LEVEL

- MKE and MEST have the power to allocate 30% of R&D budget
- MKE innovation policy is implemented in form of 5 years plan

IMPACT OF R&D POLICY



CORE ELEMENT IN INNOVATION SYSTEM



- ENDOWNMENT
- GOVERNMENT LEVERAGING ENDOWNMENT
- FIRM LEVERAGING ENDOWNMENT

SILICON VALLEY

- Pangyo's Technology Valley
- located in Kyunggi-do, the surrounding province of Seoul.
- The success of silicon valley
- generating over 77.4 trillion Korean Won in sales

CURRENT SITUATION OF TECHNOLOGY AND INNOVATION IN KOREA

- 5G,IOT
- ROBOTICS
- ARTIFICIAL INTELLIGENCE
- CLOUD TECHNOLOGY

CONCLUSION

Strenght & weakness of Korea innovation system

STRENGHT

- Strong government support in science, technology, and innovation
- Strong manufacturing base
- High literacy rate in OECD

WEAKNESS

- Lack of natural resource
- Significant gender gap in workforce
- Language barrier for foreign workers

Opportunities & threats in Korea innovation system

OPPORTUNITIIES

- HIgh levels of business innovation
- create opportunity for student to studied abroad

THREAT

- economy concentrate in few sectors
- lack of knowledge transfer between university research and industry

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