

# Role of the financial sector in the innovative growth

Financial support for SMEs and Start-ups

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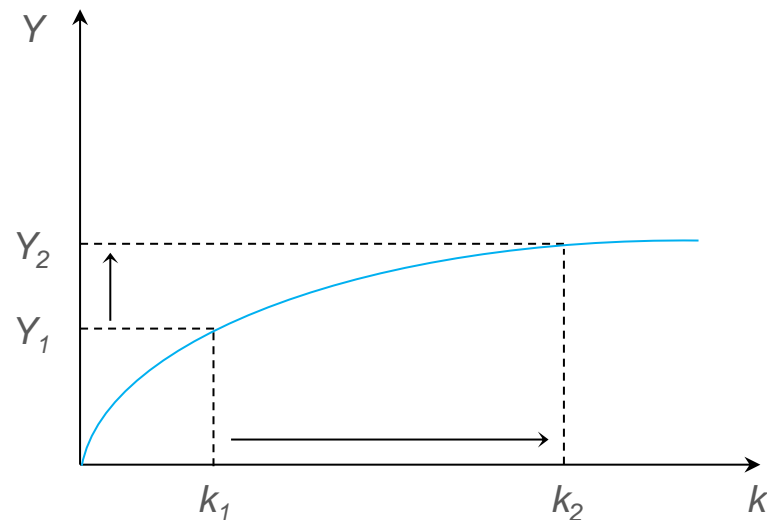
# Motivation: Why innovation?

## From input-driven to productivity-driven economy

### Classic example: Solow's growth model

$$g_Y = g_A + \alpha_K g_K + \alpha_L g_L$$

Case 1. Increase in capital



- *Developing economies* can get more outputs by *pouring more inputs* – e.g., labor and capital
- However, inputs are *limited*. More seriously, this growth strategy is not sustainable, because its marginal growth is expected to be *diminishing*

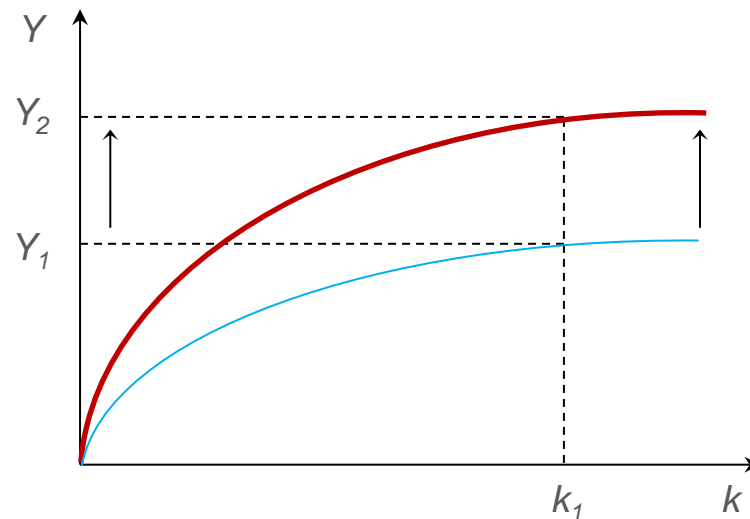
# Motivation: Why innovation?

## From input-driven to productivity-driven economy

### Classic example: Solow's growth model

$$g_Y = \underline{g_A} + \alpha_K g_K + \alpha_L g_L$$

Case 2. Technological progress

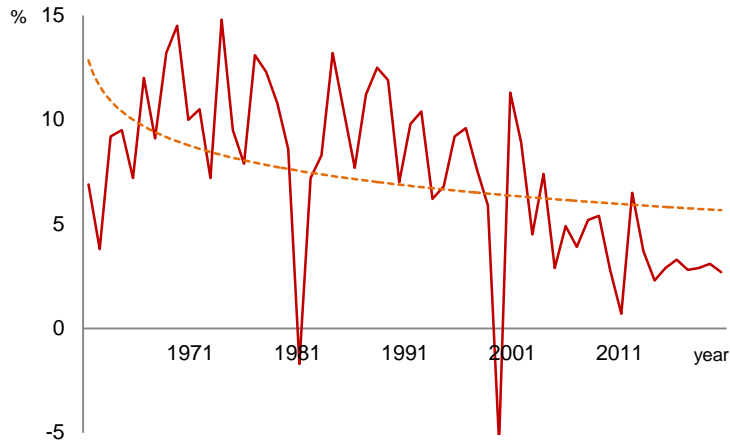


- It is possible to boost outputs from the same level of inputs with *technological progress*
- This strategy is important not only for *developed economies* – which have already reached the growth deadlock – but also for *developing economies* for *more efficient use of inputs*

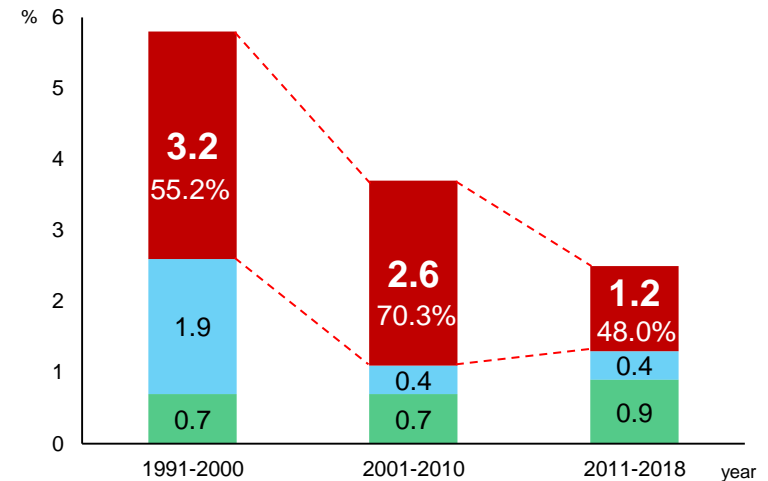
# Economic growth on the wane

Strategic shift is needed – from an input-driven to a productivity-driven strategy

## GDP growth rate of Korea (annual %)



## Contribution of TFP to GDP growth

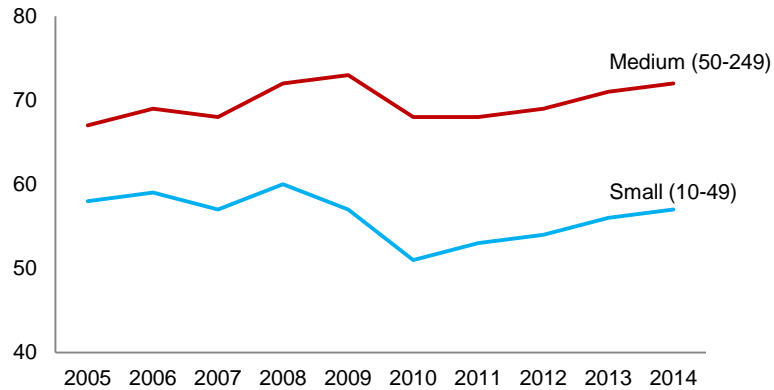


- Korea has enjoyed rapid economic growth, called the Miracle on the Han River. Such growth was backed by the *input-intensive growth strategy*
- But, the input-intensive strategy has been reaching a deadlock, and *sluggish productivity* has dragged the economy: Contribution of TFP to GDP has dropped to *below 50% level*

# Policy imperative: enhancing productivity of SMEs

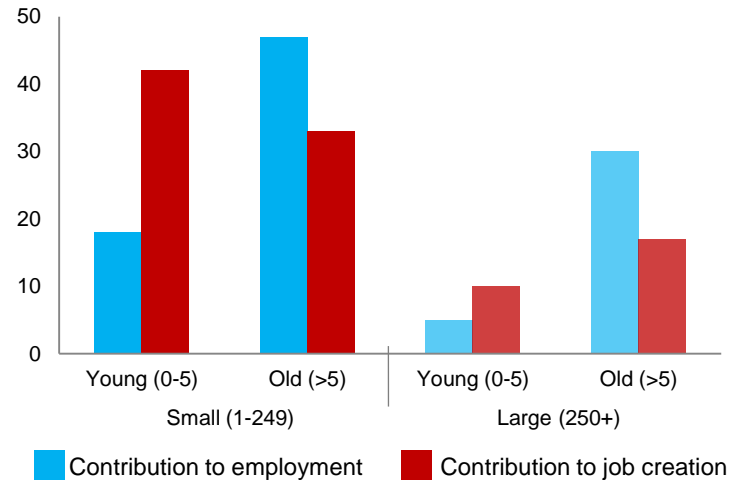
Both effective and inclusive growth can be achieved by boosting SMEs' productivity

## Productivity gap btw large firms and SMEs



Note: Productivity of large firms are set at 100

## SMEs as reservoirs of employment

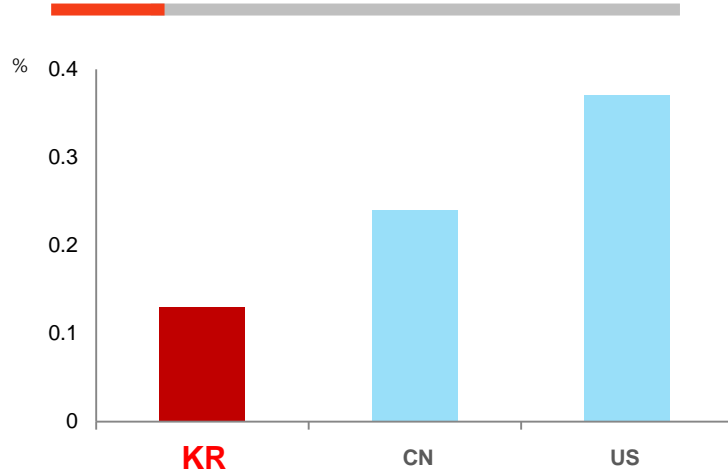


- To improve *productivity* of the Korean economy, policies should focus on the *SME sector*, which has been suffering from chronic low productivity
- Given its *strong job-creation capacity*, stronger SME sector would enable more inclusive and stable growth

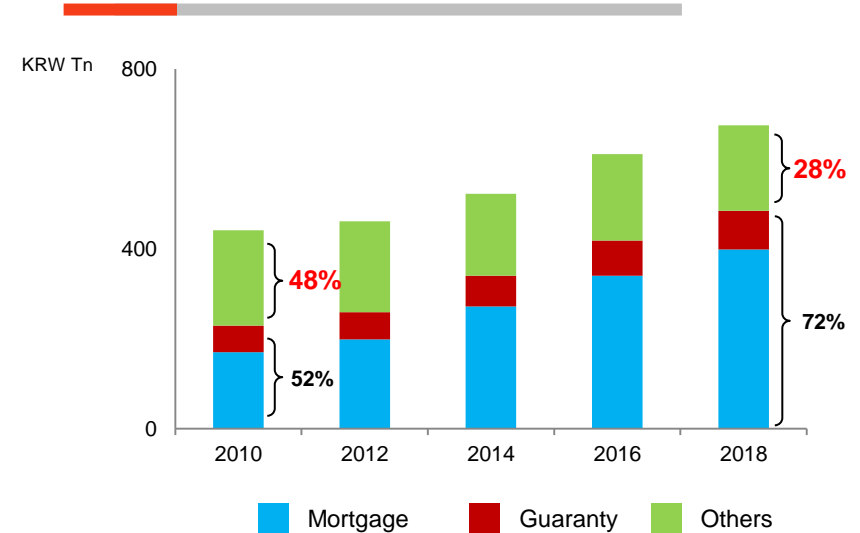
# Quo vadis, finance?

But, the financial markets hesitate to join this new policy direction

## Investment in start-ups per GDP is low



## SME loans by collaterals

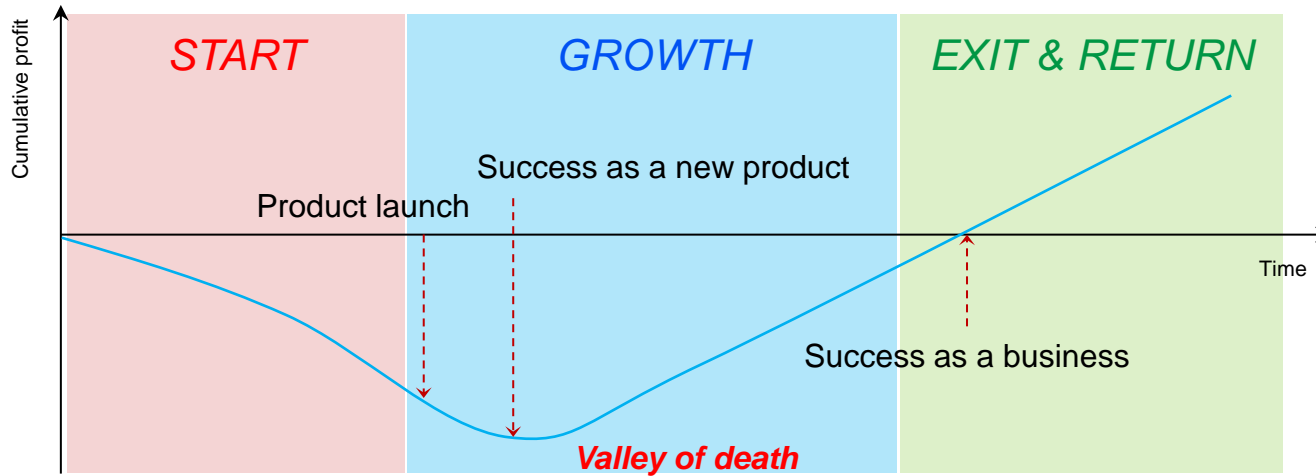


- Investment in the *SME sector* is *small*: Particularly, investment in start-ups is lower than start-up powerhouses like the United States and China
- Korean investors tend to strongly prefer *strong collateral*, especially *real-estate* – e.g., 54% of SME loans (or \$0.3tn or KRW360tn) in 2018 were collateralized with real-estate

# In-depth diagnosis by start-up lifecycle

Policy needs should be identified for effective supports

## Lifecycle of start-ups



- Start-ups may suffer from different kinds of difficulties according to their lifecycle: It needs to (i) *figure out difficulties* in detail and (ii) *create friendly system* throughout the lifecycle

# What do start-ups need?: *Stage 1. Start*

Start-ups have nothing except ideas

## Policy needs by start-up lifecycle



### START

- Lacks everything except idea, esp. *office* and *money*
- ✓ Fierce competition to take up *publicly supported offices* with 5% acceptance rate
- ✓ Budgetary supports are concentrated in growth stage – *only 5% at start stage*



### GROWTH

- *Money, money, money*
- ✓ Investors want what start-ups don't have – *real estates*

What s-ups have...    What investors want...

Only  
25%



Whopping  
94%

- ✓ Result is *high foreign capital dependency* – circa 87%



### EXIT & RETURN

- Investors are *hard to harvest* their investment
- ✓ Complicated *listing requirement*: takes about 13.1 yrs from birth to listing
- ✓ *M&A* record is particularly weak





# What do start-ups need?: *Stage 2. Growth*

## They want what they don't have

### Policy needs by start-up lifecycle



#### START

- Lacks everything except idea, esp. *office* and *money*
- ✓ Fierce competition to take up *publicly supported offices* with 5% > acceptance rate
- ✓ Budgetary supports are concentrated in growth stage – *only 5% at start stage*



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# What do start-ups need?: *Stage 3. Exit & Return*

Complicated listing process and dull M&A market drags down investors' interest

## Policy needs by start-up lifecycle



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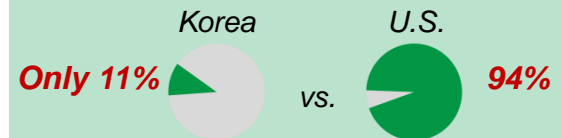
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### EXIT & RETURN

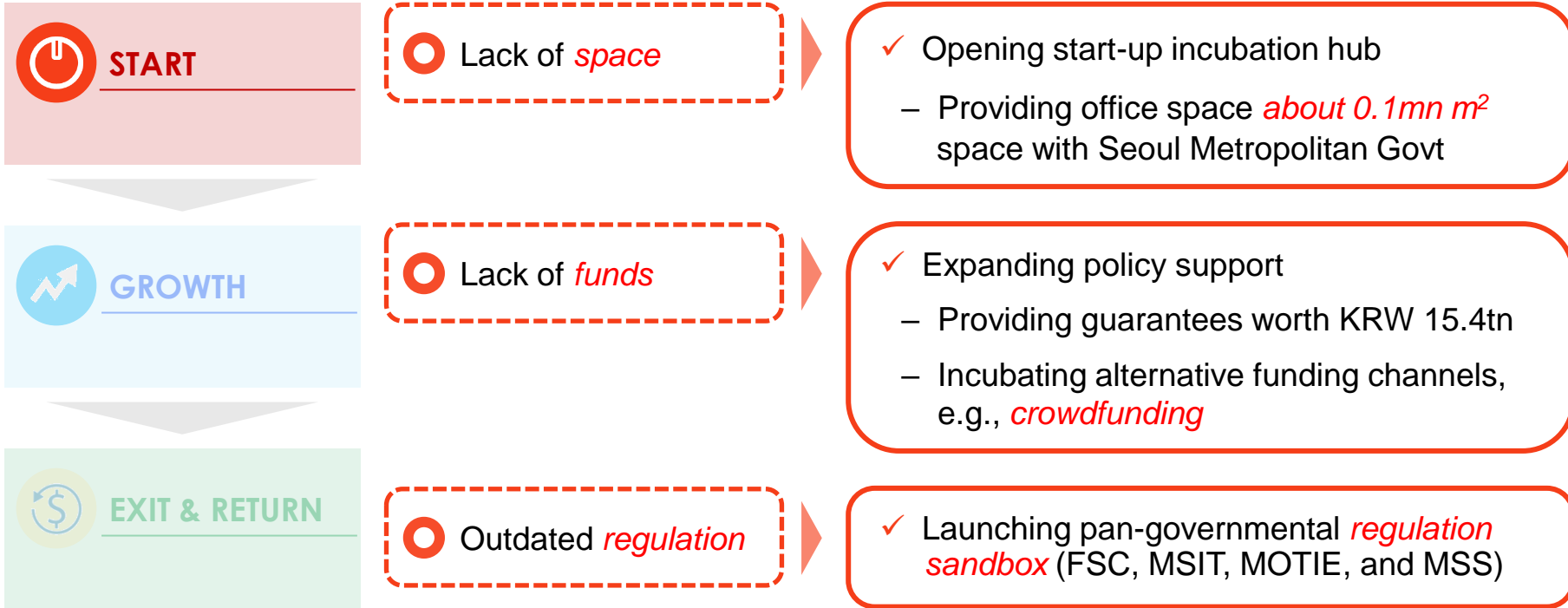
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# Tailored supports: *Stage 1. Start*

More space, more money, and less regulation

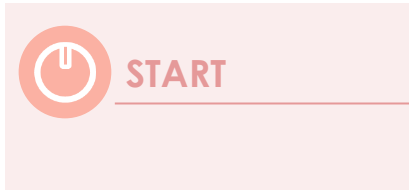
## Policy framework by lifecycle



# Tailored supports: *Stage 2. Growth*

Attract investors to want what start-ups have

## Policy framework by lifecycle



- ✓ Drawing investors' interest in what s-ups have by establishing an infrastructure for:
  - *Assessment of movables* and *trades of movable collaterals*
  - *Incentivizing financial institutions* to provide more movable-backed finance



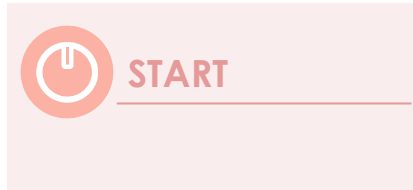
- ✓ Creating various *fund schemes*:
  - Special fund for *scale-up* (*KDB Global Challenger, KRW 15tn*)
  - *Matching fund* btw SOBs and large firms



# Tailored supports: *Stage 3. Exit & return*

Facilitate exit of investors to attract more investment

## Policy framework by lifecycle



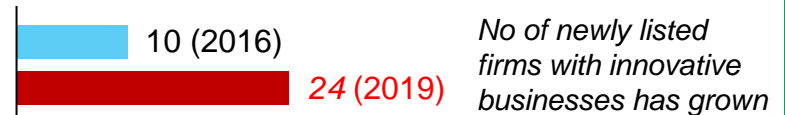
Weak *M&A performances*

- ✓ Creating *fund schemes with incentives* to channel more capital into KOSDAQ:
  - *KOSDAQ Scale-up Fund (KDB, 300bn), KOSDAQ Venture Fund*
- ✓ Promoting *pre-IPO deals in the OTC market*



Complicated *listing process*

- ✓ *Legislating new regulations* to promote listing of innovative businesses



Thank You