

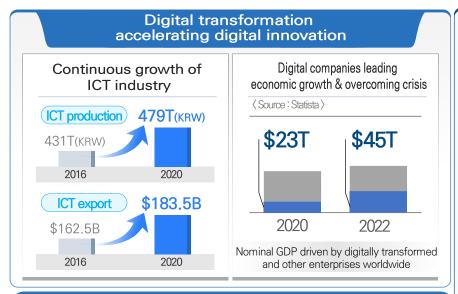
Korea's Policy and Regulatory Updates

: Plans for Nurturing Digital Talents

APEC TEL66 Feb. 2023

Background





Success of digital innovation depends on securing outstanding digital talents

Digital powerhouses to strengthen PPP & offer digital education

USA

» Al initiative (2019)

» Pan-government ICT R&D (2020)

PRC

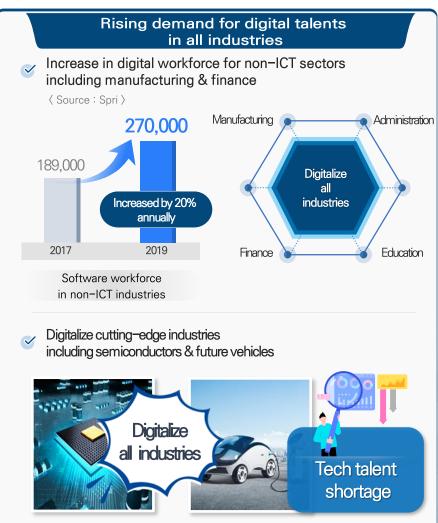
» The14th 5-year plan for STI (2020) Big tech companies to secure talents & advance technology



- » Buy Deep Mind, an Al company
- » AI-first strategy

Meta

» Announce the plan to hire 10,000 metaverse talents in the next 5 years (2021)



Systematic talent nurturing is required

for successful response to digital transformation



Master plan for fostering digital talents

(Aug 22. 2022, pan-government master plan)



Vision

Dynamic innovative growth led by digital talents

Goal



Nurture 1M digital talents from 2022 to 2026



Promote digital education & Capacity building of all citizens

Nurture 1M digital talents Digitally skilled workforce

Talents that can apply digital tech to their expertise

Talents that can utilize digital tech in daily lives

Raise digital awareness

Facilitate Digital Badge system

Establish Talent Ladder system

Transition to digital education



Train teachers on digital skills



Create an environment conducive to digital innovation



Educational revolution using AI & Edu tech

Support system

Agencies supporting digital education

Digital talent alliance

K-digital global network





- Establish a talent nurturing system based on public and private partnership
- Ensure universities can serve as bridgeheads for fostering talents in advanced and digital industries
- 3 Strengthen digital capabilities of the future generation
- Support the entire cycle of fostering, maintaining & attracting talents

Expand digital talents with businesses



Private sector-led educational curriculum (2022)

1

Industry-university collaboration

Software academy on campus

Digital companies to establish academies on campus

2

Industry-university-local government collaboration

Software academy for networking

Operate courses for fostering regional industries

3

Training of SMEs & job opportunities

Software bootcamp

Consortium of SMEs & associations, Linking education and recruitment

kakao enterprise















Cooperate with companies in expanding talents

Incentivize companies for expanding training

Digital Leaders Club

Select companies enthusiastic about nurturing digital talents as "digital leaders club"

※ Provide infrastructure, give certification for excellent courses

PPP for overcoming a talent shortage in industries

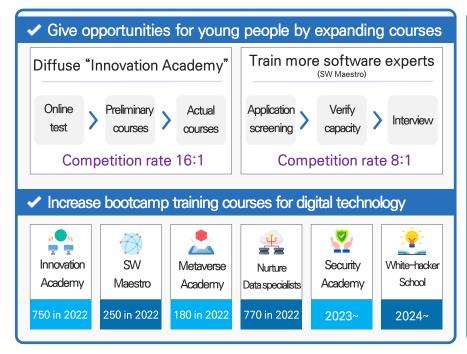
Digital Talent Alliance

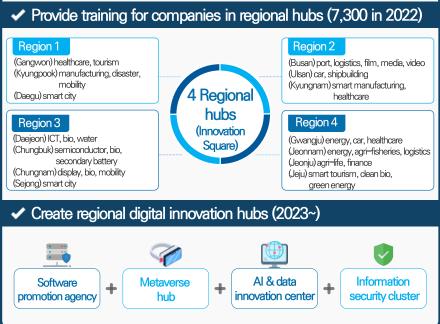
Institutions for nurturing talents(universities), companies utilizing talents(digital & traditional companies) government, related agencies, associations etc.

Innovative training courses

1-3

Regional digital hubs





Nurture 'X+digital talents' for ensuring successful digital transformation

Consulting

Nurture experts ("Digital Midas")
 in digital transformation
 (2024~)

Voucher

Provide DX vouchers for SMEs (45 SMEs, 2023~)

Staff training

Educate staff on digital transformation in non-ICT sectors including finance & shipbuilding (2022, 4,800 staff members)

Promote top-tier talents







Create 3 schools(~2023)





Create 9 schools(~2023)

Data



Create 10 schools (2024~2027) (goal)

Metaverse



 $2(2022) \rightarrow 10(2026)$ (goal)

Cyber security



 $8(2022) \rightarrow 12(2026)$ (goal)

Foster critical & emerging technology

Expand ICT research centers in universities

Prioritize 5 fields

48 >> 80 centers (goal)









Semiconductor Cyber security

5G 5G

✓ Expand talent nurturing programs for regional industries

14 cities nationwide (10 → 14 universities)

Employee upskilling programs in universities

Foster highlyskilled workforce through challenging R&D

Al Innovation Hub

- Participation from 215 organizations in industry, academia & research institutes
- Enhance support for young researchers

SW Star Lab

(goal: 46 in $2022 \rightarrow 60$ in 2027)

- Provide fundamental software technology
- Support labs for nurturing outstanding researchers

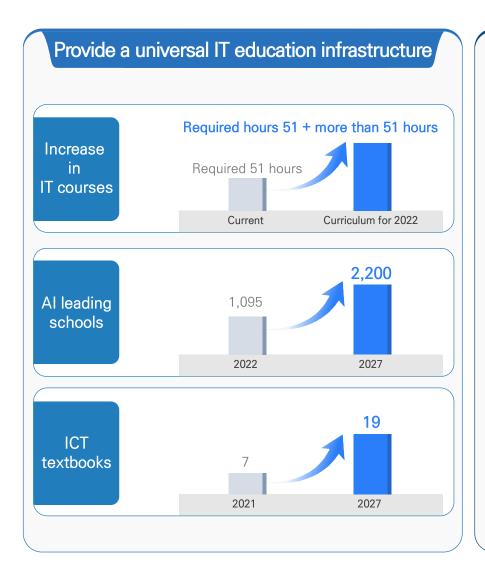
Nurture global talents

(goal: 30 in $2022 \rightarrow 40$ by 2024)

- Postgraduate researcher mobility
- Al research experience in CMU etc.

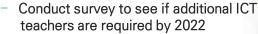
Innovate digital education system





Hire skilled ICT teachers

Hire one ICT teacher in schools(MOE)



 Reflect this to the mid-to-long term plan to hire teachers in 2023



Nurture digital tutors (770 tutors annually)

Encourage tutors to support teachers (in collaboration with MOE)



Train teachers in AI leading schools

Support training of IT companies



Establish a "Talent Ladder" system for supporting growth



Verify capabilities

- Modify system to verify digital capabilities
 - » Develop a TOPCIT model to evaluate the capacity of non-majors



» Utilize private education platforms ⟨ Examples of private platforms ⟩





