

K-High Tech Platform Project



-เอกสารการบรรยายงาน-
Competency Development
for Lifelong Learning
and Future of Jobs

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-โครงการพัฒนาศักยภาพ
Competency Development
for Lifelong Learning
and Future of Jobs

0. Background



กระทรวงส่งเสริมงาน-
Competency Development
for Lifelong Learning
and Future of Jobs

Digital transformation of humanity with the emergence of the 4th industrial Revolution in 2016, COVID-19 in 2020 and Chat GPT in 2023

0. Background



Digitalization of all areas (Digital Everything)

Due to the impact of COVID-19, transitioned from the concept of "Untact" to "On-tact" where online is "connected" externally



Expansion of business model utilizing digital technologies

Significant increase in the demand for digital talents across all industries

0. Background

Major 8 technology sectors



Digital



Materials
and parts



Robot
and drone



Bio-
health



Eco-
business



Energy



Quantum



Space

In the major 8 new technology sectors, the demand for the workforce is estimated to be 1.148 million while the supply is estimated to be 0.808 million for the next 4 years (2024~ 2027), implying shortage of **0.345 million manpower**

Among new technology sectors, **digital sector** (-0.164 million) will experience the largest shortage of workforce

Promoting various projects to nurture **"Digital Talents"**

Purpose

- Provide an advanced training platform for the convergence of new technologies within the region, providing a facility and training for individuals seeking employment in small and medium enterprises, job-seeking youth, and small business owners
- Share infrastructure and provide an advanced training platform for the convergence of new technologies

Definition

A platform where all types of training in the field of convergence of new and advanced technologies take place, offering resources for various members within the community to share ideas and collaborate on problem-solving projects

1. K-High Tech Credit

1 Background

Acceleration of digital transformation
in all industries

Increased convergence
between various fields and digital technologies

Increased need for improving the
public's competency to adapt to and
utilize digital technologies

Essential to develop digital capabilities
for those receiving vocational training

Establishing a separate support system to make sure that
participants in the labor market do not face difficulties in entering labor market
and adapting to the job market due to the digital divide



Competency Development
for Lifelong Learning

and Future of Jobs

1. K-High Tech Credit

2 Course Characteristics

Providing courses **led by private innovative organizations** by organizing courses covering various new technologies from basic digital area like **Big Data and Coding** to recently emerged Metaverse and job integration process at the beginner and intermediate level



 Fast campus

CLASS101

Creating a self-directed learning environment with real-time two-way communication capabilities, providing remote training, which is equivalent to in-person group training

1. K-High Tech Credit

3 Major Training Institutes

228 courses are provided from **41** training institutes
including private innovative organizations such as Fast campus, SPARTA and Class 101



CLASS101

러닝핏



/*elice*/

alpaco
(주)알피코

모두의연구소
MODULABS

programmers



1. K-High Tech Credit

4 Major Training Results

- ✓ As of end of August 2023, **60,089** have participated in training and **47,145** of the have completed the training successfully
- ✓ In terms of gender, **more women (66%)** participated in the training than men (34%)
- ✓ **Across different age groups, participation is fairly evenly distributed** with 20s making up 35%, 30s at 25.2%, those in their 40s at 22.8%, and individuals aged 50 and above accounting for 16.5% of the total participants



5 Future Plan

- ✓ **Providing additional courses covering latest digital technologies such as ChatGPT and semiconductor**
- ✓ **Identifying and developing courses that are linked to K-High Tech training and national key industry-specific vocational training to make sure that basic courses naturally leads to higher-level courses**



2. K-High Tech Training

Purpose

Nurturing **practical professionals who will play a pivotal role** in emerging digital technologies such as AI and big data at the national level

Training Characteristics

Companies know best what kind of talent they want

Designing the program for companies and training institutes make an agreement to run training course together in order to develop practical talents that companies want effectively

Company  Training Institute

Nurturing talents with practical skills and competencies that companies require

- ✓ Training institutions conduct surveys of corporate workforce requirements before designing their programs
- ✓ Utilizing professionals from the company as an instructor, making full use of on-site resources such as the company's infrastructure and facilities
- ✓ More than 30% of the course content is dedicated to real-world projects
- ✓ Companies are involved at every stage, from course development to teaching, mentoring, feedback, and employment support

2. K-High Tech Training

1 Outcome

Securing excellent training institutes:
Securing **631** courses from **259** training institutes

Leading companies
in new technology areas

Leading companies
in new technology areas



Innovative training institutes
in the private sector

Innovative training institutes
in the private sector



Prestigious University

Seoul National Univ., Hanyang Univ.,
Sungkyunkwan Univ., Etc.



2. K-High Tech Training

1 Outcome

Satisfying various industrial demand: 4 training types are in operation

Digital New Technology Academy

Providing training based on project with companies with which agreements made

Leading Digital Company Academy

Providing training directly by leading companies like KT and Samsung, utilizing excellent training model in the private sector

Venture and Startup Academy

Nurturing talents suitable for companies based on agreement between private groups to which companies belong and training institutes

Academy led by Region

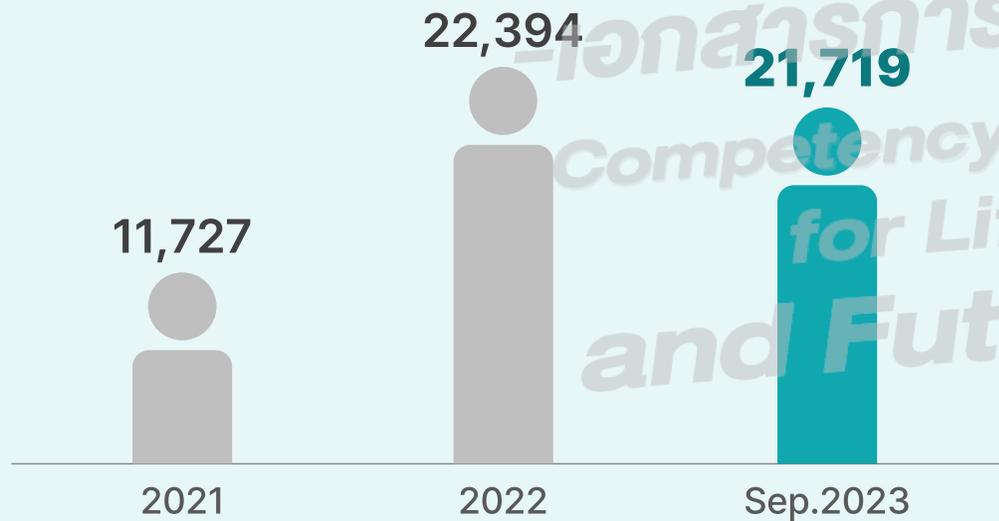
Identifying participating companies and training institutes in the region by Regional Skills Council (RSC) and nurturing local talents

2. K-High Tech Training

1 Outcome

Nurturing talents in new technology fields

Nurturing **55,840** talents



Decent Job

Monthly wage on average



company with 500 or more employees



2. K-High Tech Training

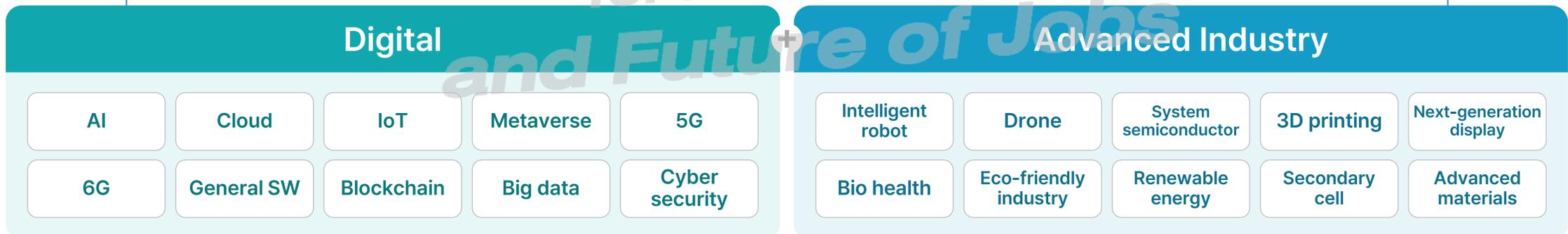
2 Future Implementation Direction

'Nurturing talents for new technologies and industries' who will lead the nation's future

From 2023, training areas have been expanded to **advanced high-tech industry**, improving national competitiveness by nurturing talents in various new industries

Designing the program for companies and training institutes make an agreement to run training course together in order to develop practical talents that companies want effectively

Expansion of K-High Tech training areas



2. K-High Tech Training

3 Future Direction

Active response to 'training demand from the field'

Starting from 2023, a new short-term advanced course (70% or more of the projects), the K-High Tech Training, has been introduced, focusing on providing trainees who seek more diverse project experiences

☑ Designing customized courses to respond to various demands such as workers and university students

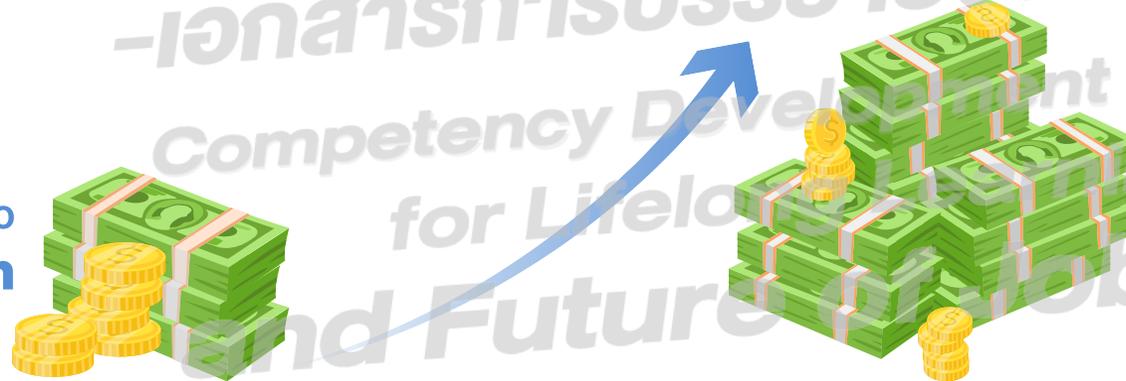
☑ Identifying excellent training institutes such as leading high-tech companies and prestigious universities



3. K-High Tech Platform

Purpose	In order to promote digital convergence training in the region, 'Digital Convergence Training Platform' is open to workers, job seekers, small business owners for sharing the facility to those in need of training in the region
Support	Support infrastructure (facility, equipment, etc.) expenses - Supporting KRW 3 billion on total for KRW 1 billion for Year 1 and up to KRW 500 million per year from Year 2 to Year 5
Target	Companies, business owners' group, quasi-government institutions, etc.

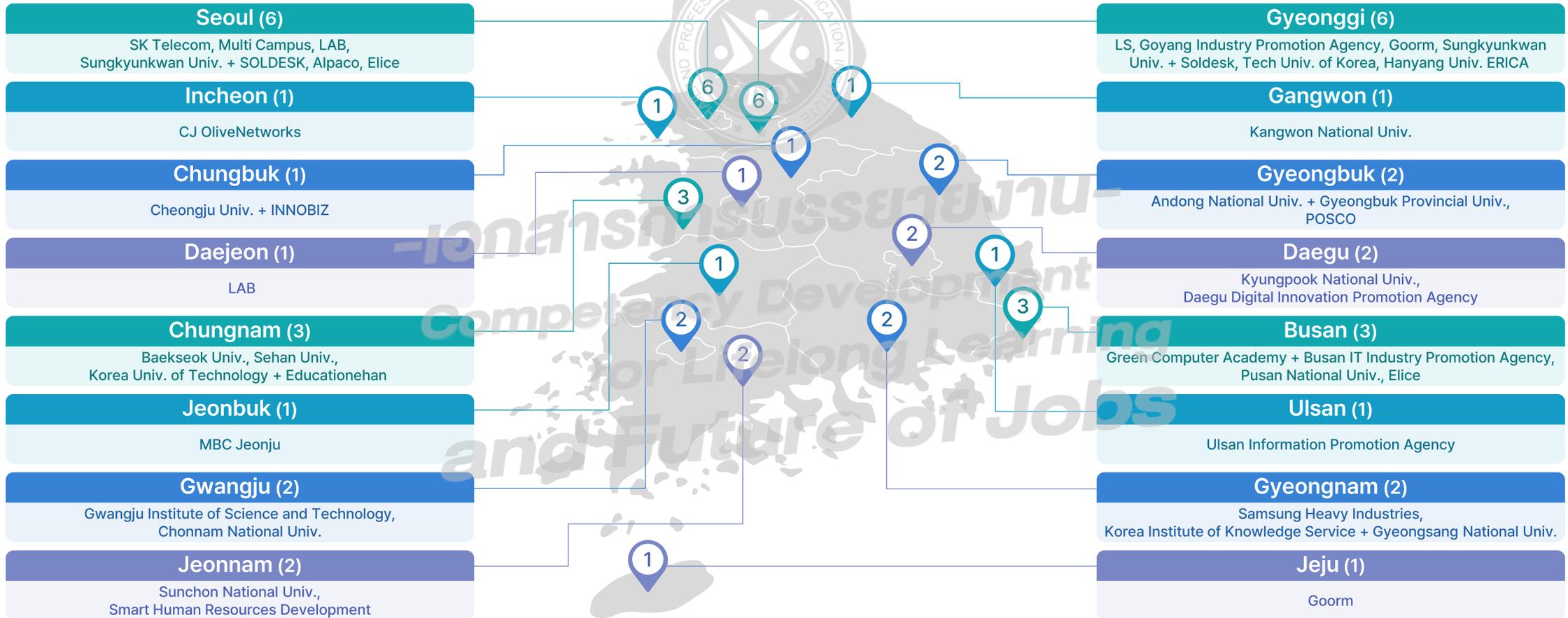
Year 1 Up to
KRW 1 billion



KRW 500 million per year
from Year 2 to Year 5,
KRW 3 billion

3. K-High Tech Platform

1 Operating Status: 35 places



3. K-High Tech Platform

2 Case

Seoul

SK Telecom

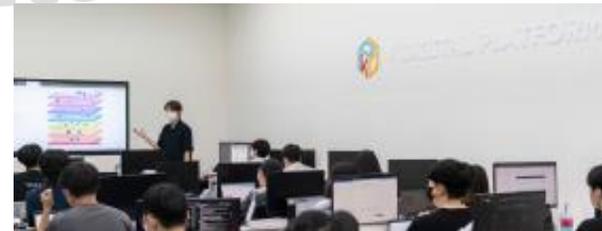
AI TECH LAB is a digital convergence talent development platform where the SK Telecom's latest AI service experience, practical developer development course and Tech Trend seminars are conducted. Anyone can enjoy exciting experience as various AI innovative technologies and services are provided to job seekers, workers and the general public. In addition, platform infrastructure such as training room and equipment are open for free to make sure that local residents can improve their digital competency.

☑ Major training

- SKT FLY AI Challenger (K-High Tech training)

☑ Major sharing/open programs

- Experience of SK Telecom's latest AI service (General public)
- ICT training program by visiting the trainee location (Students with disabilities)
- Career exploration activities (Future talents)



3. K-High Tech Platform

2 Case

Daejeon, Chungcheong, Gangwon areas

Elice

Elice (Seoul) K-High Tech Platform is a sharing and open platform that supports digital training. It is a differentiated education and cultural space with the philosophy of elice 'providing equal opportunities for all.' Elice (Seongsu) is composed of programing zone optimized for training for developers, multi-purpose lounge and meeting rooms, suitable for communication and collaboration from individual learning to team activities



Major training

- K-DT Elice SW engineer track (K-High Tech training)
- K-DT Elice AT track (K-High Tech training)

Major sharing/open programs

- Coder land (Local elementary students)
- Junior Conference (Local junior developers)
- Idea Campus (CEOs and leaders interested in new technologies)
- GDSC Programming Contest (Those majored in development in the local community)



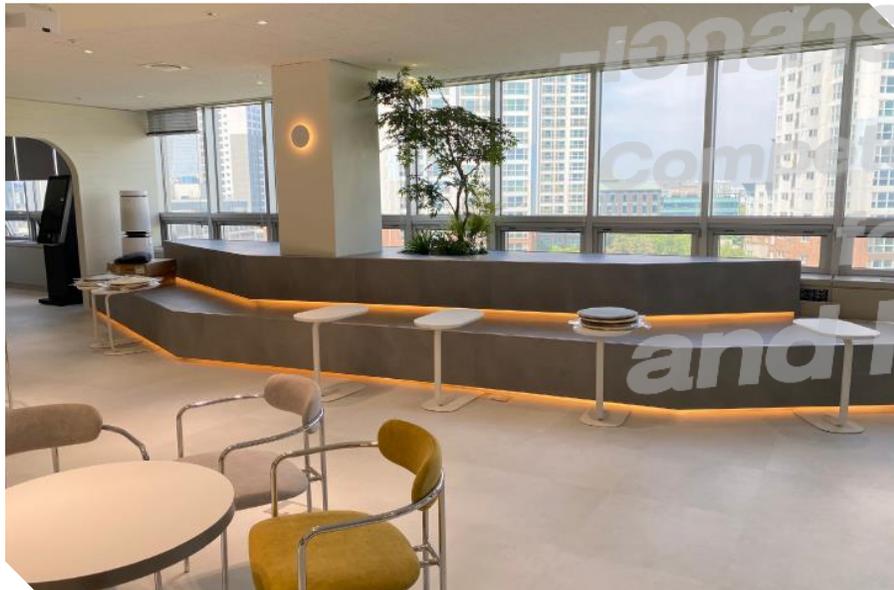
3. K-High Tech Platform

2 Case

Daejeon, Chungcheong, Gangwon areas

CJ OliveNetworks

Based on cloud center for managing data of CJ Group located in Songdo Incheon, CJ OliveNetworks' AI, cloud, 5G technology based exhibition, experience, training and seminar are contributing to digital distribution from the ESG perspective for local residents



☑ Major training

- Cloud Wave (K-High Tech training)

☑ Major sharing/open programs

- SW creativity camp (Elementary school students)
- DEV, Inn (Workers)
- Digital learning (Seniors)



3 Future Direction

Expansion of target and scope of joint training centers:
Improving openness of joint training center

Expanding target of training

- ☑ Providing job training and digital basic training to workers working for companies with which agreement is not signed and young job seekers in the region moving away from training focusing on workers working for companies with which agreement is signed



Improving infrastructure utilization

- ☑ Providing digital area practice environment which can be freely used by individuals and companies and running a short-term experience program for local residents



3 Future Direction

Linking to K-High Tech vocational training:
Operating as a hub for digital training

Job seekers

- ☑ Supporting regular and post learning of K-High Tech Training and Credit trainees, supporting employment and starting a business for excellent trainees



Workers

- ☑ Nurturing talents required for creating ecosystem of main industry of the region such as digital transition training and SW for employees working for the manufacturing industry in nearby industrial complex



3 Future Direction

Developing training programs suitable for regional characteristics and demand:
Building regional-centric training infrastructure

- ☑ Providing cost support for the development and dissemination of training programs that can be shared with local small and medium-sized enterprises (SMEs), businesses, and other joint training centers, based on regional training needs
- ☑ Ensuring easy access to the K-High Tech Platform anytime, anywhere, distribute it evenly by region



We are leading
Innovative Growth of Korea,
a digital powerhouse through
Nurturing of Digital Talents



*Competency Development
for Lifelong Learning
and Future of Jobs*



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