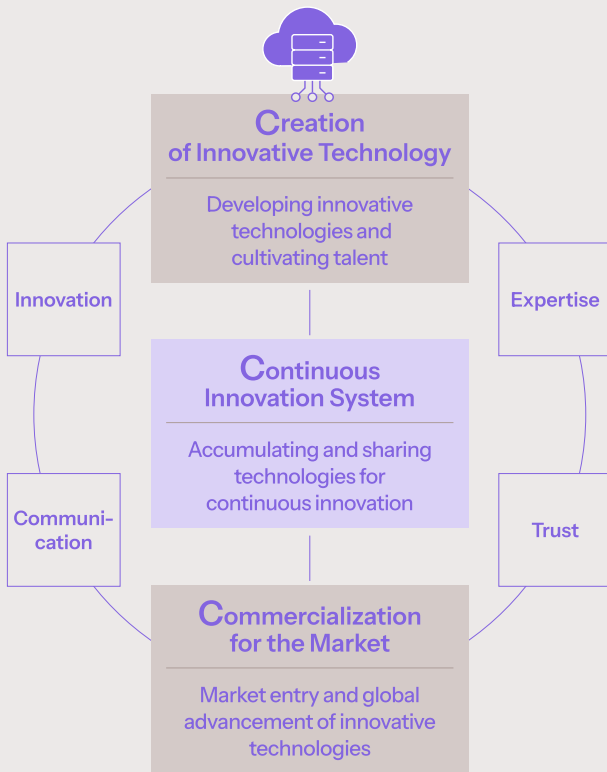
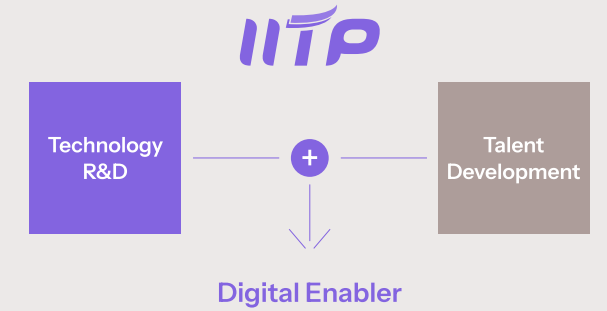


Global Digital Frontier

IITP will become an enabler and power station for digital transformation and AI innovation through technology development and talent development, which is the beginning of the national digital policy.



DX·AI Power Station



IITP is a power station for DX·AI and contributing to Korea's leap forward into the digital G3

- IITP Periodicals [Weekly]
- Weekly Technology Trend
 - ICT Brief
- [Monthly]
- IITP DIGITAL OUTLOOK
 - ICT SPOT ISSUE
 - S&T and ICT Policy and Technology Trend
- [Annual]
- ICT Insight (Top 10 Issues)
 - Annual Reports on the Promotion of ICT Industries
 - Statistics on R&D in ICT companies
- * Available on ITFIND (www.itfind.or.kr) and the IITP homepage

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30 Years Of Challenge 100 Years Of Anticipation

Institute of

Information & Communications

Technology

Planning & Evaluation

IITP plans digital strategies and promotes 1 billion dollars annually to promising ICT technologies (AI, AI Semiconductor, 6G, Cybersecurity, and more), to our future workforces as well as commercialization.



ICT R&D Achievements for 30 years

IITP, Korea's leading ICT research and development funding organization, has been a part of the country's ICT industry development and economic growth for the past 30 years.

Technology Research and Development (R&D)

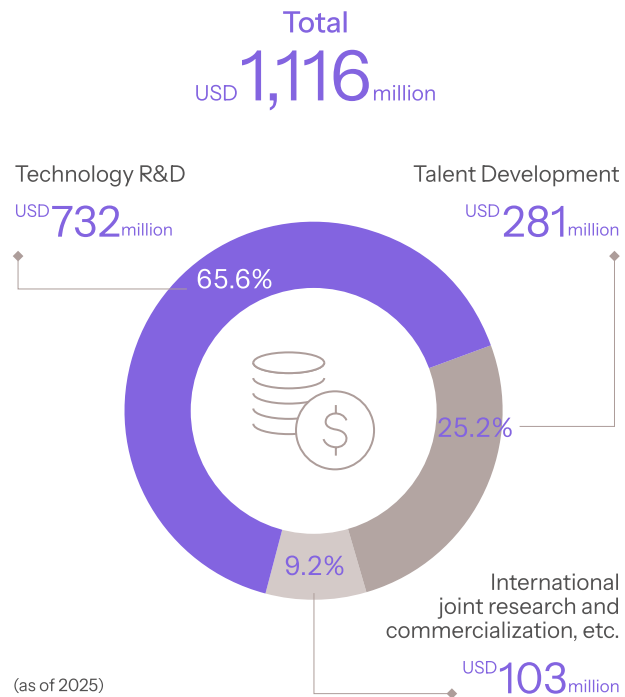
<p>Broadband Convergence Network (BcN) Laying the foundation of ICT infrastructure with TDX and the world best BcN</p>	<p>COMS Chollian Satellite 1, the first Korean geostationary satellite called COMS, opened the era of space communication</p>	<p>CDMA World's first commercialization of CDMA paves the way for South Korea to become a mobile communications powerhouse</p>
<p>UHD&DMB The world's first commercialization of UHD and DMB. Open a new era for Ultra High Definition Broadcasting</p>	<p>5G Advancing the era of hyperconnectivity with the world's first commercialization of 5G</p>	<p>Artificial Intelligence (AI) Exobrain, an AI model for Korean language processing, and DeepView, a visual intelligence technology, the foundation for Korea's AI sovereignty</p>
<p>AI Semiconductors AI semiconductors take on the global market</p>	<p>Software (SW) World Best SW, dreaming of a global hidden champion</p>	<p>Autonomous Driving Autonomous driving challenging Level 4+</p>
<p>Quantum Quantum cryptography communication-Quantum sensing, Ready for the quantum jump!</p>	<p>Public key Infrastructure (PKI) Universal authentication technology that started internet commerce</p>	

Talent Development

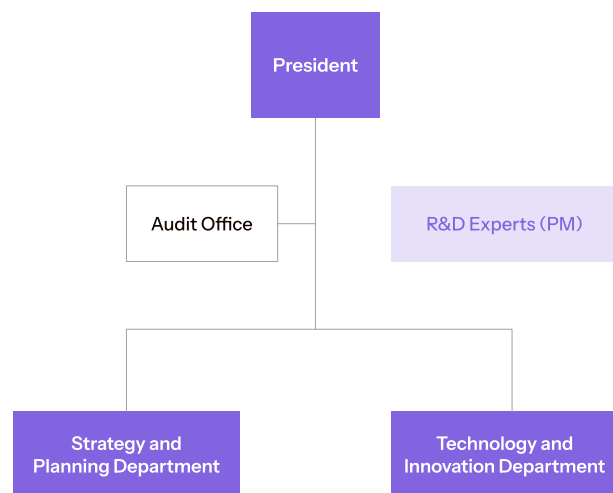
<p>Graduate School of Artificial Intelligence Realizing the dream of becoming an AI G3 powerhouse</p>	<p>University ICT Research Center (ITRC) A cradle of core ICT research talent</p>	<p>SW Maestro Digital core HR training center, a mecca of youth entrepreneurship</p>
<p>Innovation Academy Innovative education where students learn on their own without a teacher or textbook</p>	<p>SW Centric University Cradle of SW talent development and value diffusion</p>	<p>SW Meister High School SW career up school!</p>

We will create a happier future for everyone faithfully performing our role as a strong bridge between digital R&D and innovative talent development that drives AI and digital transformation.

Budget



Organization



* PM (Program Manager)
 © Artificial intelligence © Semiconductors © Quantum © Telecommunication & Satellite
 © Software © Information security © Content & Media © Digital convergence
 © Innovation & Globalization

Technology R&D



Designing Technologies for a Better Digital World

Securing national innovative technologies, planning technology roadmaps, discovering policies to lead digital technology, and managing & evaluating projects.

Statues of Six Major Innovative Technologies

Artificial Intelligence (AI) 1 USD 151million <ul style="list-style-type: none"> Overcoming the limitations of generative AI and solving problems for its market Developing human-level AGI (Artificial General Intelligence) technologies AI safety technologies, etc. 	AI semiconductor 2 USD 102million <ul style="list-style-type: none"> Improved performance of intelligent semiconductors (NPU-PIM) Core technologies of K-Cloud and system software
Next-Generation Communication 3 USD 178million <ul style="list-style-type: none"> 5G ADVANCED Commercialization of 6G Low-orbit Satellite communication, etc. 	Quantum 4 USD 42million <ul style="list-style-type: none"> Securing key technologies for quantum communication and sensors Developing of next-generation Quantum cryptography communication technology
Cybersecurity 5 USD 78million <ul style="list-style-type: none"> Addressing vulnerabilities with AI Zero Trust-based network security technologies, etc. 	AI-driven convergence services, and more 6 USD 182million <ul style="list-style-type: none"> Innovation technology for XR device Creating digital human and content creation technology, SDR (Software Defined Robot) technology, etc.

Talent Development



Developing Future Talent to Lead Korea as a Digital Powerhouse

Creating a digital world by fostering talent with problem-solving capabilities and creativity, SW working-level talent, and digital convergence talent through global collaboration.

Projects for Talent Development

Highly Skilled Talent for Digital Innovation 5,145 people	Support master's and doctoral research projects such as artificial intelligence and AI semiconductors, and foster highly-skilled experts for SW innovation <ul style="list-style-type: none"> Academic ICT Research Center (ITRC) Graduate School <ul style="list-style-type: none"> Artificial Intelligence, AI Convergence AI Semiconductor, Metaverse Convergence Security X-Lab for AI Semiconductors Innovation Academy SW Maestro Courses and more, etc.
SW Working-Level Talent and Regional Talent 47,860 people	Innovate university's SW education and train to strengthen SW competencies with the enterprise and a degree program to strengthen the capabilities of employee <ul style="list-style-type: none"> SW Oriented University Software Academy for University-Business Collaboration Project Internship for ICT Credits Cultivation of innovative talents for regional intelligentization, etc.
Global Digital Convergence Talent 120 people	Global joint research, personnel exchange, and dispatching Korean graduate students to foreign countries for on-site education, etc. <ul style="list-style-type: none"> Building next-generation telecom cloud leadership Global data convergence leadership course AI convergence course at overseas universities Cultivation of ICT global talent, etc.

International Joint Research and Commercialization, etc.



Supporting Globalization and Accumulation of Digital Technology

Establishing strategic international cooperation R&D channels in the field of digital innovation, promoting international standardization of technology, and technology innovation & commercialization.

International Collaborative Research

1 Establish global R&D policies and strategies and expanding R&D cooperation network channels *(AI) U.S. (google), Canada (NRC) / (AI Semiconductor) U.S. NSF, etc.	Create domestic and overseas R&D centers to support international collaborative research and exchange researchers. *Domestic AI research hubs, North American global AI frontier labs, and more
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Standardization

2 Develop of standard technologies for digital innovation and support for domestic technologies to be adopted as international standards
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Commercialization

3 <ul style="list-style-type: none"> ICT show for commercialization of digital and ICT technologies (annually) Technology Preview Conference, etc. 	<ul style="list-style-type: none"> Support testbed and follow-up research of R&D outputs Scale-up of ICT deep-tech companies, etc.
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