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CHUNGNAM TECHNO PARK



History

1997 ~ 1999

- 1997. 12. Designated as the Demonstration Techno Park
- 1998. 12. Incorporation approved
(by the Ministry of Commerce, Industry and Energy)
- 1999. 01. Establishment

2000 ~ 2010

- 2001. 02. Held a groundbreaking ceremony for the construction of Cheonan Valley
- 2005. 11. Opened Information & Media Convergence Center
Renamed from Media Center on Jan. 1, 2013
- 2006. 10. Opened Display Center
- 2007. 12. Completed Automobile Center
- 2010. 09. Awarded "Prime Minister Merit" for Local Development Week Success Story Contest
- 12. Awarded as an excellent organization for Local Industry Promotion Joint Council (by the Minister of Knowledge Economy)

CTP

Chungnam Techno Park

Established in 1999, Chungnam Techno Park is an organization that supports technology companies with the objective of advancing the technology of local small and medium-sized businesses through technological innovation.

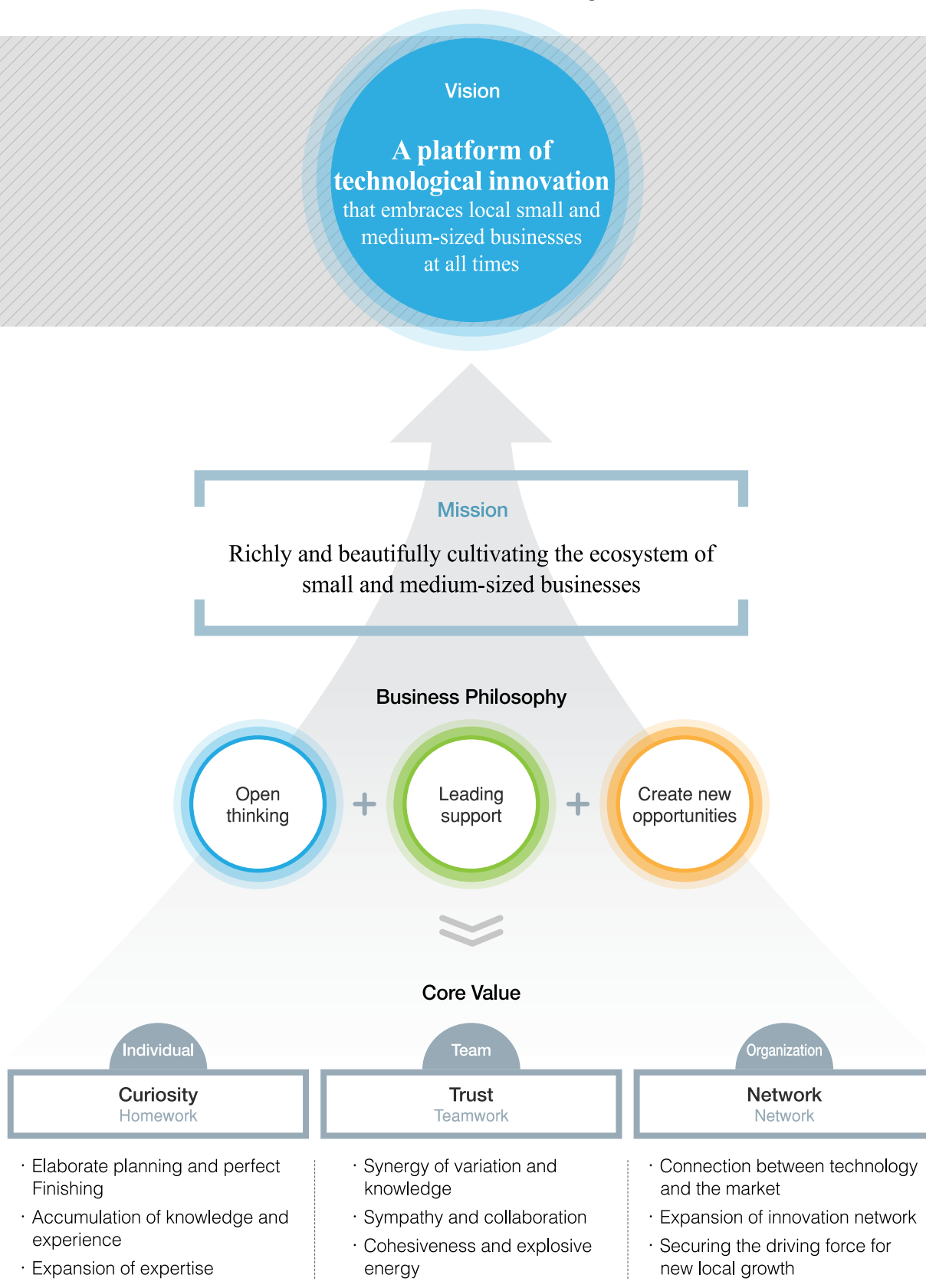
Among the 18 techno parks nationwide, Chungnam Techno Park has become one of the most exemplary models, with promising small and medium-sized businesses incubation and technical support and service support facilities.

2011~2018

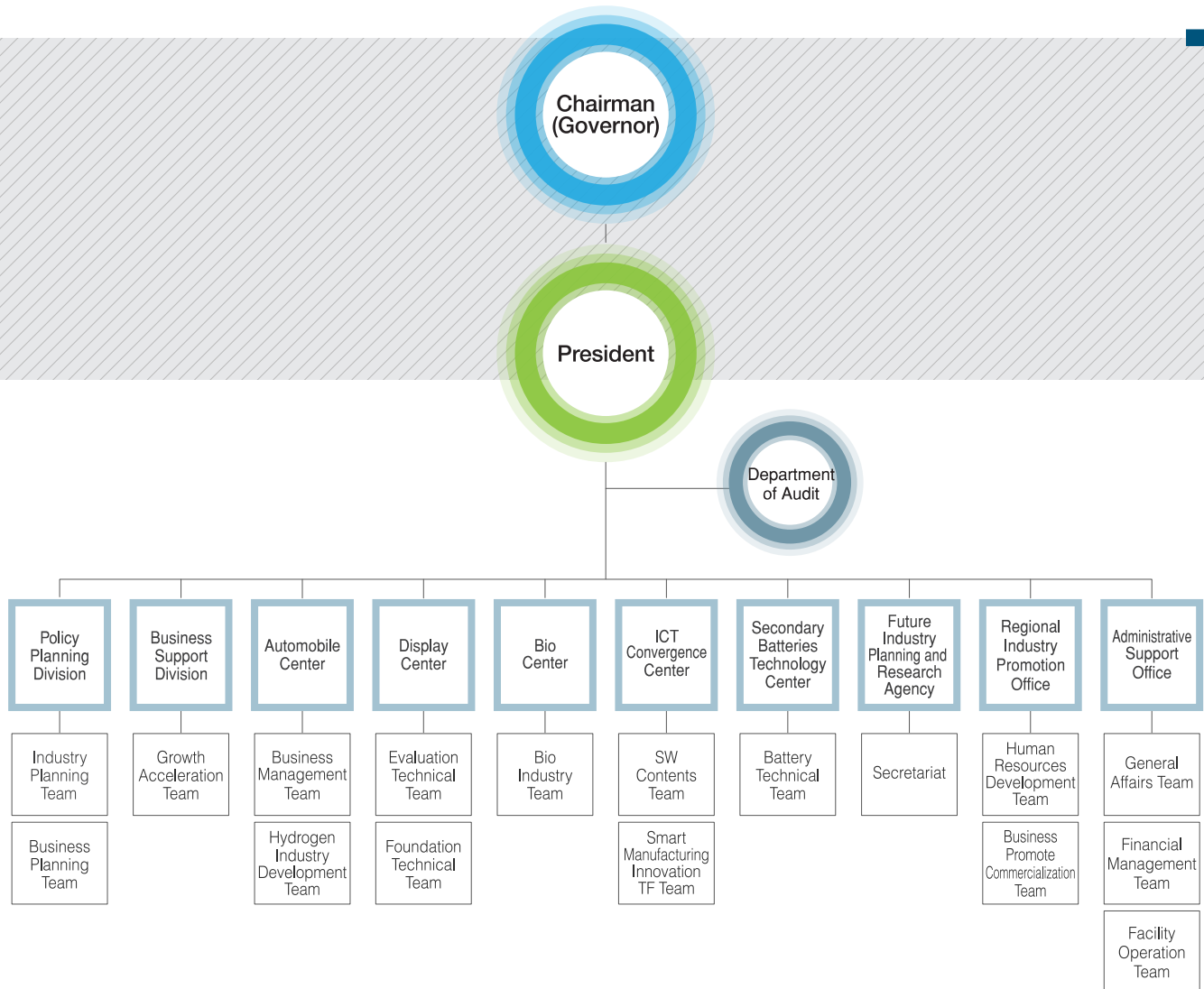
- 2011. 02.** Integrated operation of Bio Center
Renamed from Animal Resources Center (Dec. 14, 2011)
- 12.** Awarded as an excellent organization for 2011 Local Industry Promotion Joint Council
(by the Minister of Knowledge Economy)
- 2013. 08.** Opened Secondary Battery Technology Center
Renamed from Next Generation Energy Center (Mar. 11, 2016)
- 11.** Awarded as an excellent organization for maintenance of national research facilities
(by the Minister of Science, ICT and Future Planning)
- 2014. 12.** Awarded as an 'excellent organization' for establishment, utilization and integrated management of research
(by the Minister of Trade, Industry and Energy)

- 2015. 10.** Completed construction of Hydrogen Filling Station (Naepo New Town)
Designated as the top organization for local industry support performance (Minister of Trade, Industry and Energy Merit)
- 2016. 07.** Completed construction of R&BD hub for animal medicine (in Yesan-gun)
- 2017. 05.** Completed construction of Wellness Spa Clinical Trial Center (in Seongnam-myeon, Cheonan-si)
- 08.** Completed construction of Well Aging Material Development Support Center (Jiksan-eup, Cheonan-si)
- 2018. 12.** Designated as the organization of the highest level (Grade S) in the TP Organization Business Performance Assessment by the Ministry of SMEs and Startups (MSS)

Vision · Mission · Business Philosophy

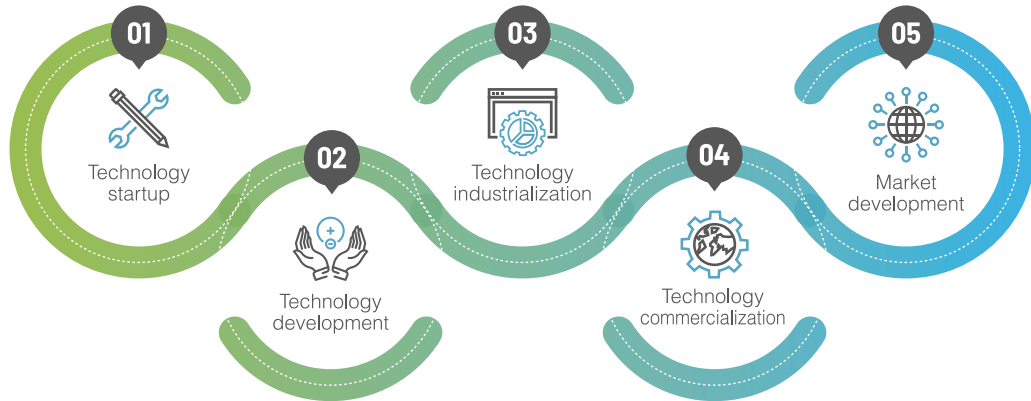


Organizational Structure



Functions as the base for technological innovation

01 Innovation and industrialization support for small and medium-sized businesses



Chungnam
Techno Park
support areas



Joint R&D
project



Test analysis and
certification



Prototype
manufacturing



Technology transfer
technology
industrialization



Product quality
improvement

Joint R&D project
implementation

“Company-Led” R&D task planning and participation for resolving technologically difficult on-site issues of small and medium-sized businesses and for diversifying businesses of promising technologies

Test analysis and
technological
support

Test analysis and assessment based on common equipment and technology of the specialized center, and operation of product/technological reliability certification system

Smart factory
establishment and
advancement
support

Solution and linkage equipment establishment support for businesses without smart factories, and support for advancing the existing smart system(Additional installation/synchronization of smart factory equipment and linkage system is possible.)

Technological Support Areas of Each Specialized Center

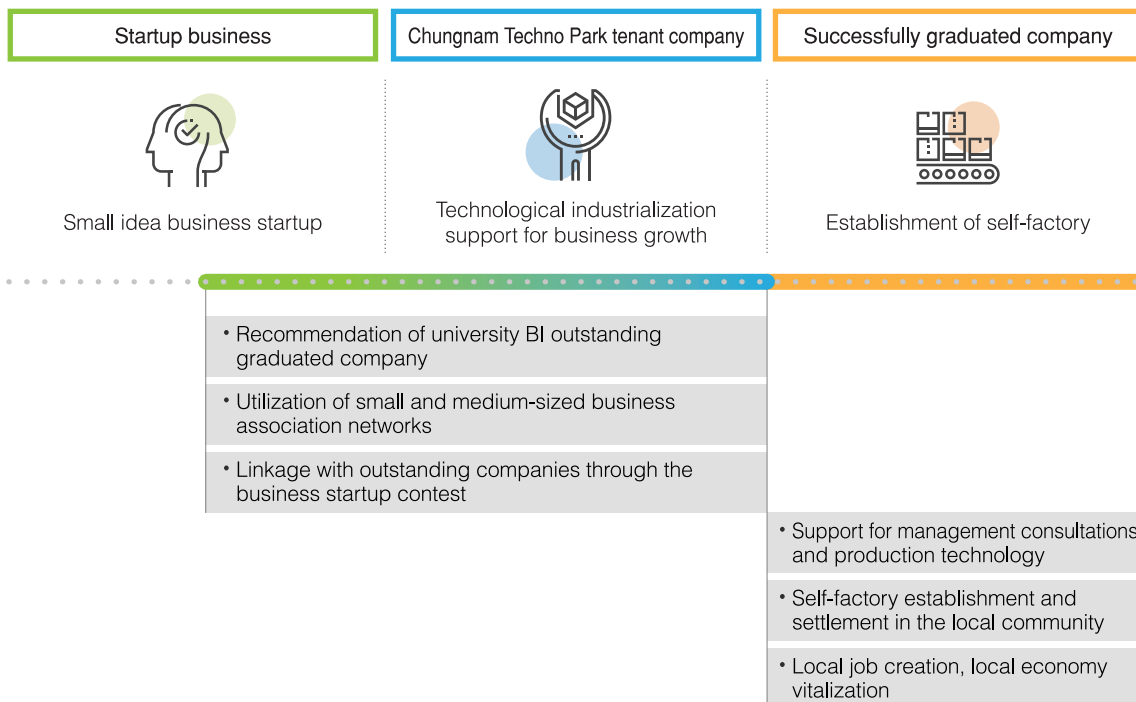
	Automobile Center	Display Center	Bio Center	ICT Convergence Center	Secondary Batteries Technology Center
Category	Automobile parts, futuristic automobile	Display component materials Next-generation display	Animal food and medicine, healthcare	ICT, video, SW	Secondary battery, smart grid
Support areas	Internationally certified testing organization (KOLAS) (Classification 3.014 Environment & Reliability)		Fertilizer test facility (Physio-Chemistry)	SW quality certification (Quality check certification)	Collaboration with Korea Testing Laboratory (KTL)
Certification standard	<ul style="list-style-type: none"> • 41 standards including KS, IEC, EIA, MIL, etc. ※ 23 display center standards, 18 automobile center standards • Reliability verification in the electric test field • Technological regulations commonly used in 103 countries 		<ul style="list-style-type: none"> • Fertilizer process standard • Fertilizer registration test • Sewage suitability test 	<ul style="list-style-type: none"> • ISO, SPICE, etc. • Execution error verification • Security verification 	

02 Support for Post-Startup Business Incubation (Post BI) and Fostering According to the Business Growth Stage

Fostering successful Chungnam businesses

Operation of systematic post-startup business incubation and fostering program

- ☐ Integrated Post BI support for tenant companies for the establishment of business startup ecosystems



03 Fostering of Promising Small and Medium-sized Businesses in Chungnam

Fostering local star companies

Discovering Chungnam star companies through concentrated efforts in discovering promising companies and systematic support

- ☐ Implementation of “Chungnam Region Innovative Growth Voucher Support Program” to foster pre-star companies

Targets	Businesses related to major and minor industries of Chungnam
Fostering areas	Businesses with annual sales between 1-5 billion KRW

- ☐ Fostering “Chungnam Region Star Company Fostering Program” beneficiaries



04 Devising Development Strategy for Small and Medium-sized Businesses and Securing Future Growth Engine

Devise development strategy for local small and medium-sized businesses



Devise “**Local Industry Promotion Plan**” through analyzing the structure and business capabilities of Chungnam industries



Operation of “**Research and Development Support Unit**” for the scientific advancement in Chungnam



“**Implementation of Chungnam Innovation Cluster**” undertaking the role of being the stronghold for new industrial growth

Discovering future growth engine



Securing growth engine for Chungcheongnam-do Province industry by discovering growth-oriented future promising businesses



Discovering national R&BD new industrial projects (i.e. similar industries)

05 Job Linkage and Technological Manpower Fostering for a Smooth Supply and Demand of Manpower

Job creation

Minimize difference between supply and demand for manpower through employment trend surveys of businesses in key industries of Chungnam

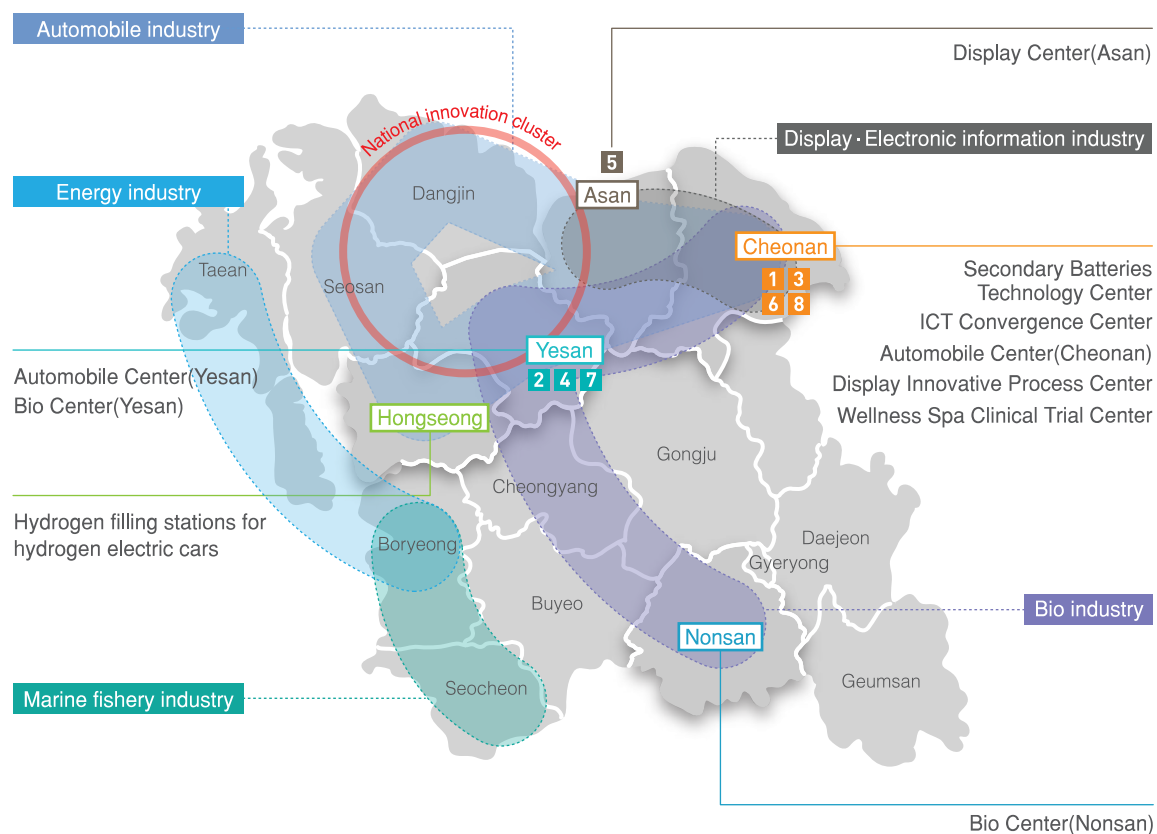
☐ Link local talent with jobs in local promising small and medium-sized businesses

- Operate local promising small and medium-sized business exploration group through “Hope Connection Project”
- Host various employment opportunities through employment camp, employment club activities and job fairs

☐ Operate dedicated technological talent fostering organization for local businesses, “Joint Training Center”



Structure of innovation cluster



Classification		2017	2018	2019	2020	2021
1 Wellness Spa Clinical Trial Center	Cheonan	2014 ~ 2018 : 15.8 billion				
2 Automobile high sensibility industry cluster	Yesan	2014 ~ 2019 : 16.3 billion				
3 Well Aging Material Development Support Center	Cheonan	2015 ~ 2019 : 6 billion				
4 Power Transmission Technology Development Support Center	Yesan	2015 ~ 2020 : 12.1 billion				
5 Converged display material components hub	Asan	2017 ~ 2020 : 18 billion				
6 Establishment of Secondary Battery BMS Industry Fostering Foundation	Cheonan	2017 ~ 2021 : 13 billion				
7 Fostering of FCEV Component Commercialization and Industrial Foundation	Yesan	2017 ~ 2021 : 26.7 billion				
8 Establishment of display innovative process platform	Cheonan	2019 ~ 2025 : 159.8 billion				

Major Activities by Department



Policy Planning Division



Main Projects

- Development of Regional Industrial Promotion Plan
- Establishing a roadmap for growth of local small and medium-sized enterprises
- Establishing a comprehensive plan for promoting regional science and technology and establishing an implementation plan
- Performance survey and analysis of regional science and technology
- Establishing a mid- to long-term management strategy for the foundation's business planning
- Foundation budget and business management
- Domestic-overseas exchanges and collaborations

Core Projects

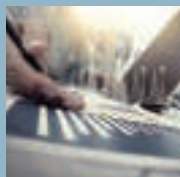
- Data-based statistical management of regional industries and businesses
- Establishing and managing the regulation free zones
- Establishing and supporting the national innovation cluster fostering plan

Operation of Central Government Project Unit

- (Ministry of SMEs and Startups) Chungnam Regulation Free Zone Administration Support Unit
- (Ministry of Science and ICT) Chungnam Research and Development Support Unit
- (Ministry of Trade, Industry and Energy) Chungnam National Innovation Cluster Execution Unit

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Future Industry Planning and Research Agency



Main Projects

- Supporting to operate for New Industry Planning of Project Team
- Supporting to plan for Local government(city-gun) industries projects
- Statistical analysing for Chungcheongnam-do industries
- Establishing comprehensive development plan for Chungcheongnam-do industries
- Hosting policies forums and seminars about industrial issues
- Building of Chungcheongnam-do industrial expert DB

Core Projects

- Establishing development strategies plan for area in the industrial region of Chungcheongnam-do
- Discovering for Chungcheongnam-do new growth industry engines
- Establishing detail industrial implementation strategy and Development road map
- Establishing and operating of advanced planning process
- Operating industrial planning networking hub

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Business Support Division



Main Projects

- Building and operating the network of regional Industry related companies, universities & laboratories etc.
- Operation of business support platform
- Provision of information and business support regarding overseas exporting
- Support for commercialization of creative economy idea
- Planning and running the project that Post-BI company could get a chance for success with
- Supporting for small and medium-sized enterprises at each stage of development

Core Projects

- Platform business for small and medium-sized enterprises in Chung nam
- The local excellent company fostering project
- Rapid commercialization project
- Business consulting for successful company
- Community business vitalization project
- Business innovation growth non-R&D voucher project
- Helping companies to export
- Post BI promotion project

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Display Center



Asan Center(Eumbong)

Support field

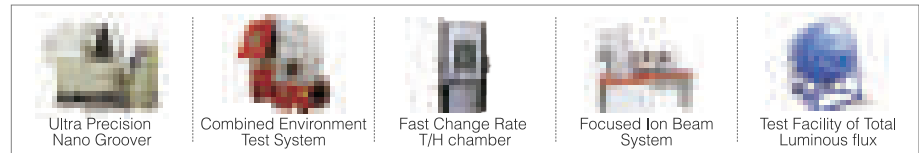
- Public, convergence, next-generation display
- Operation and management of KOLAS(internationally accredited authority)

Core Projects

- Converged display material component hub establishment project
- Display innovation process platform establishment project
- Operation of discovering new industry/research and development, business support project
- Establishment of industry-academy-institute network and implementation of exchange activities
- Ultra precision machining, reliability test, optical characteristics, physical property analysis, solar equipment utilizing business support

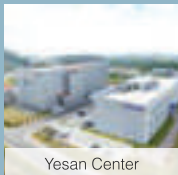
Equipment status

Classification	Key functions	Establishment status
Reliability Test	Components / materials / product reliability assessment and certification test support	20 units of 20 types
Optical characteristics·physical Property Analysis	Display/electric and electronic structure·surface·material·optical characteristic analysis	28 units of 21 types
Ultra precision machining	Ultra precision and test production of display component materials	8 units of 6 types
Micro & Nano patterning machine	Display optical components and Micro & Nano pattern production	10 units of 9 types
Solar equipment	Solar thin film battery performance assessment	10 units of 10 types

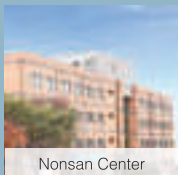


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Bio Center



Yesan Center



Nonsan Center

Cheonan Center
(Seongnam-myeon, Cheonan-si)

Support field

- Animal resource, animal medicine, Wellness Spa, Well Aging industry
- Industrial bio, marine bio materials

Core Projects

- Discovery and fostering of new bio industry
- Joint research and development and support for technology industrialization
- Establishment of bio industry cluster and operation of innovation network
- Business creation training and common equipment utilization support

Equipment status

Classification	Key Functions	Establishment Status
Functional material analysis and manufacturing equipment	Functional material analysis and test production support	86 units of 86 types
Raw material medicine manufacturing equipment	Raw material medicine test production support	51 units of 18 types
Spa experience and cosmetics manufacturing equipment	Spa experience and cosmetics test production support	95 units of 43 types



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Support field

- Automobile interior (seat), electronic components
- Automobile high sensibility system components
- Key automobile power transmission components
- Hydrogen fuel cell electric vehicle (FCEV) components

Core Projects

- Provision of tenant space / common equipment utilization / KOLAS certification
- Technology industrialization support / smart factory expansion support / human resource fostering
- Chungnam Automotive Parts Industry Fostering Group
- New business discovery / joint technology development / hydrogen station operation

Equipment status

Classification	Key Functions	Establishment Status
Automobile components reliability assessment equipment	Automobile components environment and reliability test (KOLAS certification), automobile electronic components testing and advanced development	48 units of 30 types
Automobile seat measurement assessment equipment	Automobile seat regulation testing, durability testing, emotional quality testing, noise and vibration	40 units of 27 types
Automobile power transmission components assessment equipment	Drivetrain component (i.e. transmission, axle, etc.) performance and durability testing, HIL simulation, electricity-based environment-friendly component testing	1 units of 1 types



Robot elevation durability tester



Seatbelt anchorage (regulation testing)



Vibration tester(short axis, 3-axis, simultaneous)



Complex noise and vibration tester (BSR)



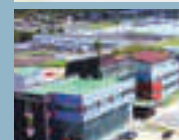
HILS drivetrain dynamometer

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Automobile Center



Cheonan Center



Yesan Center



Hydrogen station(Naepo)



Power Transmission Technology Development Support Center(Yesan)

Support field

- Secondary battery cell manufacturing and battery test assessment

Core Projects

- Planning and promotion of new joint development tasks
- Support for developing battery material/parts/product technology and strengthening competence
- Equipment application and common equipment utilization support
- Support for periodic businesses to develop technology and promote commercialization

Equipment status

Classification	Key Functions	Establishment Status
Electrode/cell manufacturing and cell analysis equipment for secondary battery	<ul style="list-style-type: none"> • Electrode manufacturing and cell assembly for secondary battery • Cell performance test assessment and analysis for secondary battery 	13 units of 12 types
BMS and battery testing/assessment equipment	• BMS/battery performance and stability assessment	13 units of 4 types



High performance mixer for making cathode/anode electrode



High performance roll-press machine for making electrode



High performance coater for making electrode



Stacking machine for making lithium ion cell



BMS HIL

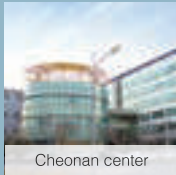
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Secondary Batteries Technology Center



Cheonan Center

ICT Convergence Center



Cheonan center

Support field

- ITC field IT·SW, etc.
- Contents production support

Core Projects

- Development strategy devising and business support for the promoting ICT industry
 - ※ Chungnam ICT · SW industry promotion stronghold (organization)
- Operation of "SW Quality Capability Center" of Chungcheong-do area
- Development support for new projects and policies related to ICT industry
- Chungnam area ICT-based smart factory establishment and supply support
- Fostering specialized area business startups and operation of "The Business Support Center" for independent works

Equipment status

Classification	Key Functions	Establishment Status
SW quality testing equipment	SW quality verification and analysis	8 units of 4 types
High-quality camera	Contents (drama, movie, etc.) production support	1 units of 1 types
Studio	Contents (drama, movie, etc.) production space support	-



Studio



High-quality camera



Chungnam Regional Software Quality Center

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Regional Industry Promotion Office

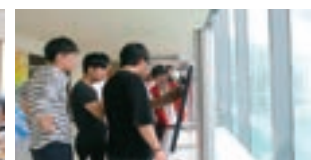
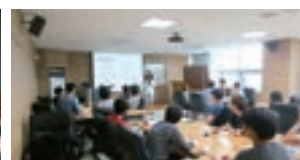


Main Projects

- Local employment creation and job linkage project
- Industry site customized talent fostering
- Support management for Cheonan Valley tenant graduated companies
- Investment fund support for small and medium-sized venture businesses in the early-startup stage

Core Projects

- Human resources fostering project customized for local industries
- Support project for local innovation projects
- Operation project for Techno-CEO member companies
- Support project for fostering local innovation strongholds
- Support project for technology transaction vitalization networks
- Support project for intelligence asset creation of Chungnam's local government
- Support project for small and medium-sized venture companies exhibition in the Chungcheong-do area
- Support project for Chungnam Startup companies' youth employment promotion
- Support program for mutual collaboration between Chungcheongnam-do Province-Development 3-Unit



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Chungnam Techno Park Status



- | | | | |
|---|---|--|----------------------------|
| ① Administration Building | ② Building for tenants 1 | ③ Building for tenants 2 | ④ Pilot Plant |
| ⑤ Building for tenants 4(Well Aging Center) | ⑥ Battery Management System | ⑦ Building for tenants 3 | ⑧ ICT Convergence Center |
| ⑨ Secondary Batteries Technology Center | ⑩ Display Center(Asan) | ⑪ Automobile Center(Cheonan) | ⑫ Automobile Center(Yesan) |
| ⑬ Automobile Center(Hydrogen Filling Station) | ⑭ Automobile Center(Power Transmission Technology Development Support Center) | ⑮ Bio Center(Nonsan) | |
| ⑯ Bio Center(Yesan) | ⑰ Bio Center(Wellness Spa Clinical Trial Center) | ⑱ KTL Secondary Battery Testing and Certification Center | |
| ⑲ SB(Science-Biz) Plaza | | | |

Residence Guide

Eligible for residence

- Electronic information, precision machinery(display, semiconductor, etc.)
- ICT convergence field such as contents, IT, SW, etc.
- Bio technology, nano technology, etc.
- Automobile part related businesses

Procedure

- Submit Application → Application Review → Announcement → Contracting and relocating

Period

- 3 years for the initial residence, extension available for 2 times with 2 years respectively

Other Facilities

- Precision processing support center, BMS (Battery Management System) Hall

Enquiry for Residence

- Tel. +82.41. 589. 0638 Fax. +82.41. 589. 0655

Cheonan Valley Amenities

Auditorium, Conference Rooms, Lecture Rooms, Projection Rooms, Computing Education Room, Convenience Store, Lounge, Internet Cafe, Business Promotion Hall, Cafeteria, Jiksan Sports Park, Garden(bicycle road), Small Baseball Park, Cafe(B1F), Lounge for Trainees, Fitness Center

