

A 3D PRINTING FOUNDRY COMPANY

Leader in the Next-Generation Manufacturing Paradigm

Lincsolution Inc.



Next generation manufacturing paradigm leader Lincsolution

World's largest
SLA 3D printer

1st

Patented technologies
Domestic(23)
International(7)
(2024)

61+

Global
certifications
(2024)

17+

Consecutive profit
(foundation ~ now)

8+

Employees
(March 2024)

67+

Resignation rate
(5 years average)

6.9%



Company milestones

2015

Found Lincsolution
- Venture certification obtained



2018

Hyundai (Kia Motors)
- Future automobile R&D contract

Developed approx 1.6m
SLA 3D printer



2020

CES 2020
Innovation Award Grand Prize



2023

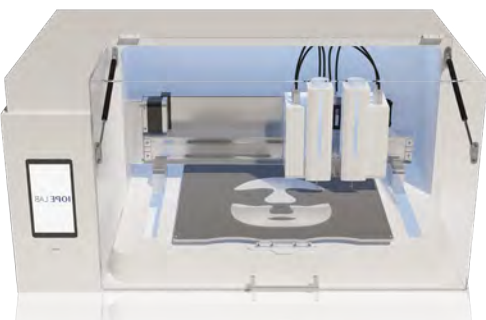
Supply to Airforce logistics
and Navy maintenance depot

2024

accumulated
22.2B KRW investment



163%



Amorepacific
- Exclusive contract for customized
3D printed mask sheet

Samyang
- Engineering plastic 3D printing
service contract

2017

Samsung/ LG Electronics
- Contract for the development
of large home appliances

Certification
- Certified ISO 9001
- Certified for production quality, Q-Mark
- Certified as innovative SME, Innobiz

2019

TIME THE BEST INVENTIONS OF 2021

TIME The 100 Best Inventions
of 2021 Special Mention award

2021

Certification
- Certified CE & KC
- by the Public Procurement Service
(EP500, SL2300)
- Certification of Key Industrial Convergence
Items (EP500)
- Selected Top 100 SME in Materials, Parts
& Equipment

**Series A achieved 10B KRW
accumulated investment**

2022

Investment and business status

(secured 10.5B KRW investment in 2024)

PARTNERS



CUSTOMER



MOU of Lincsolution Inc.

Signed technological cooperation agreements with major overseas 3D printing companies for global expansion.

Belgium

Collaboration for automated processes and establishing production bases in Asia



Germany

Material research collaboration in aerospace and national defense sectors



Japan

Industrial (+ consumer goods) Research and Global Network Collaboration



US

Collaboration for establishing Production bases in Asia



UK

Collaboration for developing Metal 3D printers



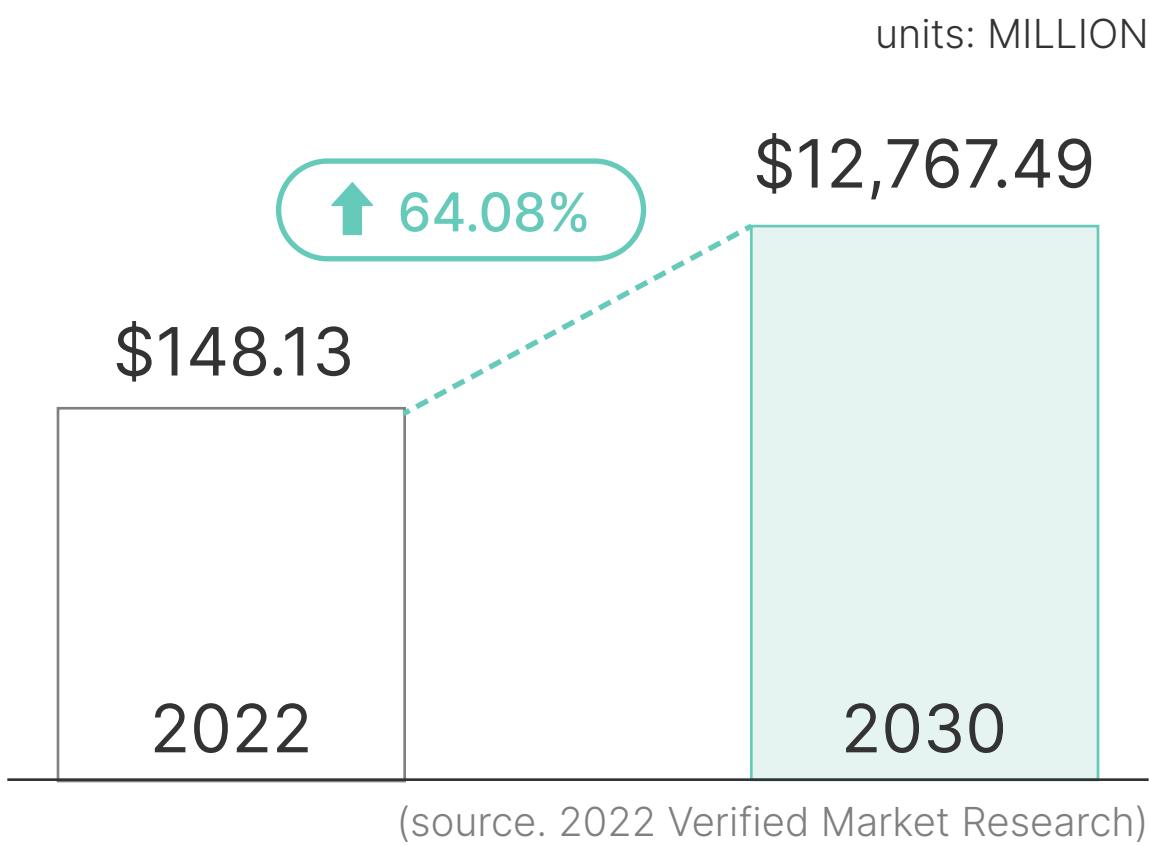
US

Collaboration in the 3D printer software sector



Global market status and analysis

Global Automated 3D Printing Market









- By 2030, the market size is projected to reach 12,767.49 M USD with a CAGR of 64.08%
- Introducing a new concept of “3D printing factory” to expand into a large-scale and high-value service platform.

units: 100M KRW

Company	2023	2024	2025	2026	2027
Lincsolution Inc. (Domestic)	11,251	14,504	18,698	26,177	36,648
3DSystems (Overseas)	22,594	31,954	37,999	45,188	53,742

Global 3D printing mass production applicable companies

<p>1,000,000+</p> <p>The world’s largest 3D printing order quantity Hanger supplied 1,000,000EA</p> <p></p>	<p>2,000,000+</p> <p>Lattice Midsole output cumulated 2,000,000 +</p> <p></p>	<p>30,000+</p> <p>Manufactured and supplied 30,000EA Golf Putter series</p> <p></p>	<p>100,000+</p> <p>Cumulative production of 100,000 Nozzle tips</p> <p></p>	<p>3D Printing Introduction Goals</p> <p>Goal to introduce metal 3D printing for standard automobile production</p> <p></p>	<p>Production of dental devices</p> <p>Production of dental orthodontic devices using 3Dscanners and 3Dprinters</p> <p></p>
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Key technologies and characteristics of Products/Services



SLA 3D Printer

Mass productive printer utilizing the world's largest size and high-speed production technology



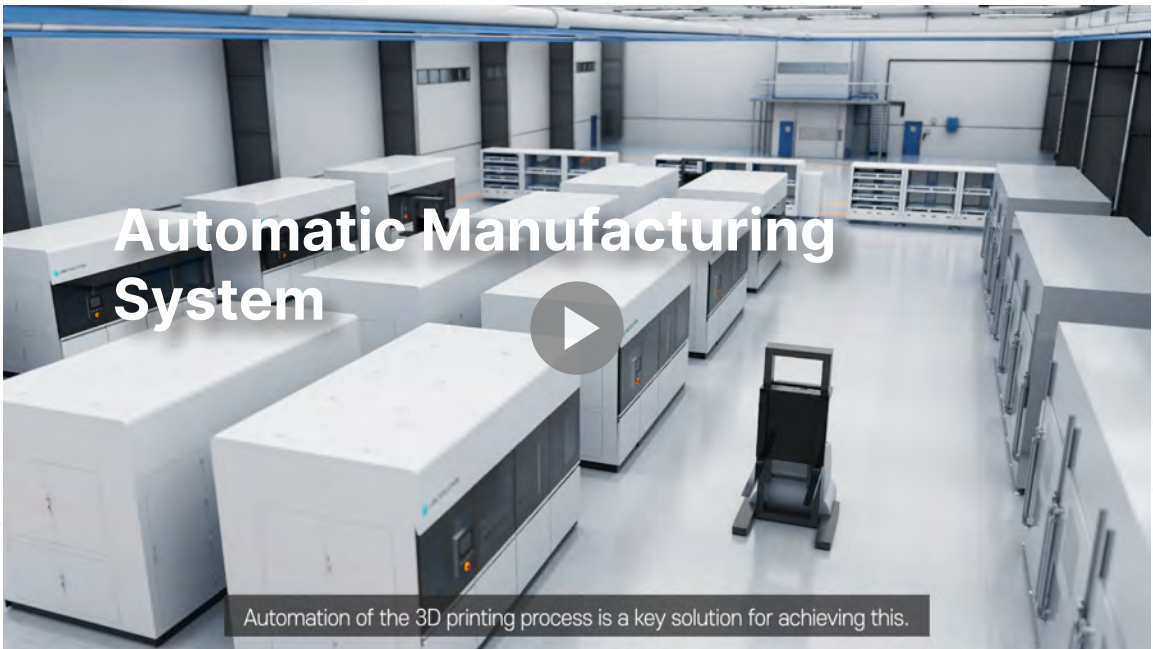
FDM 3D Printer

aerospace, semiconductor, national defense high value-added component producing printer



Metal 3D Printer

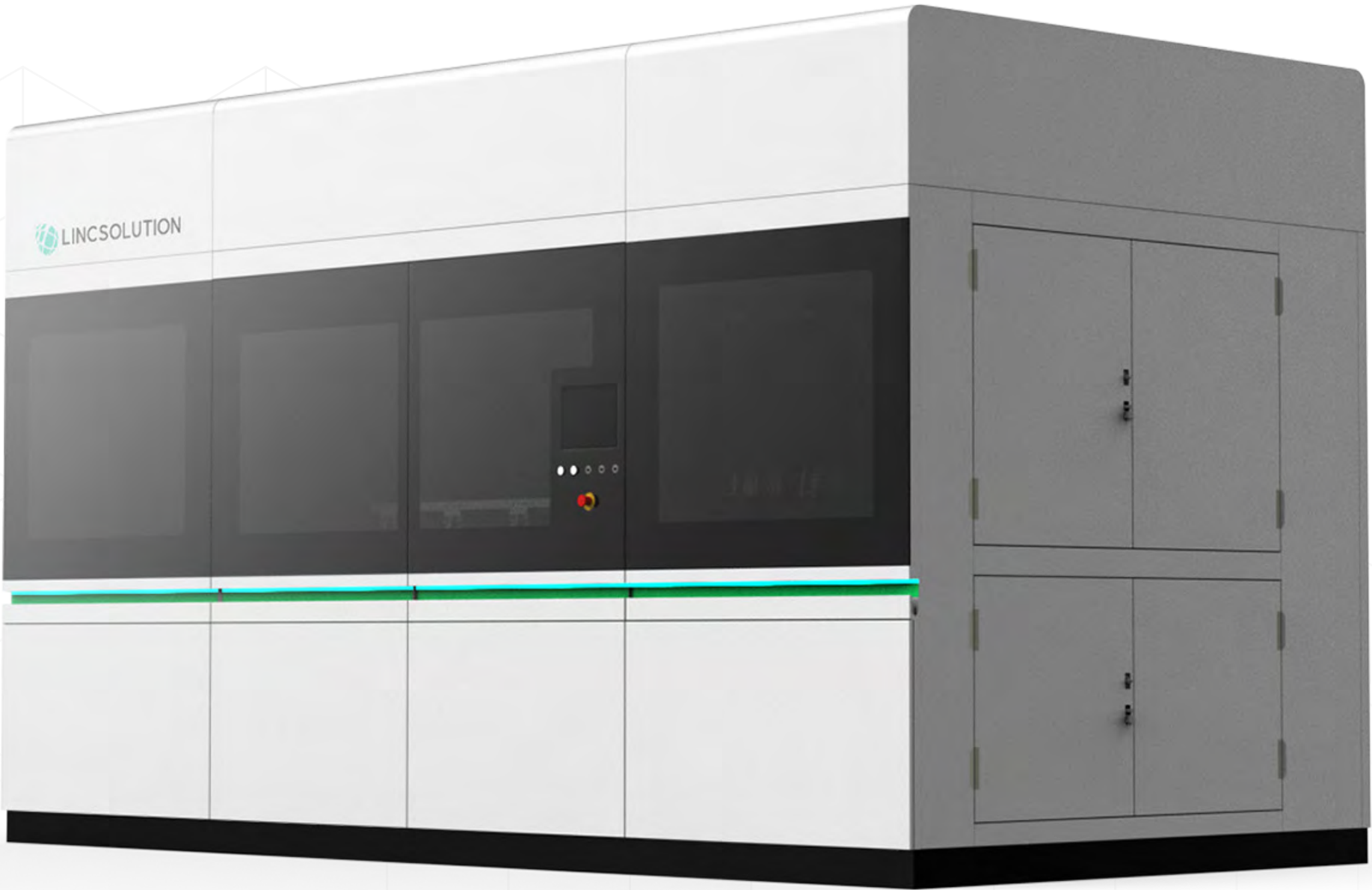
Ultra-small , small parts mass-producing metal 3D printer



Automatic Manufacturing System

Utilizing own equipment to reduce equipment setup and maintenance costs. High process flexibility| High material flexibility

Mass productive printer utilizing the world's largest size and high-speed production technology



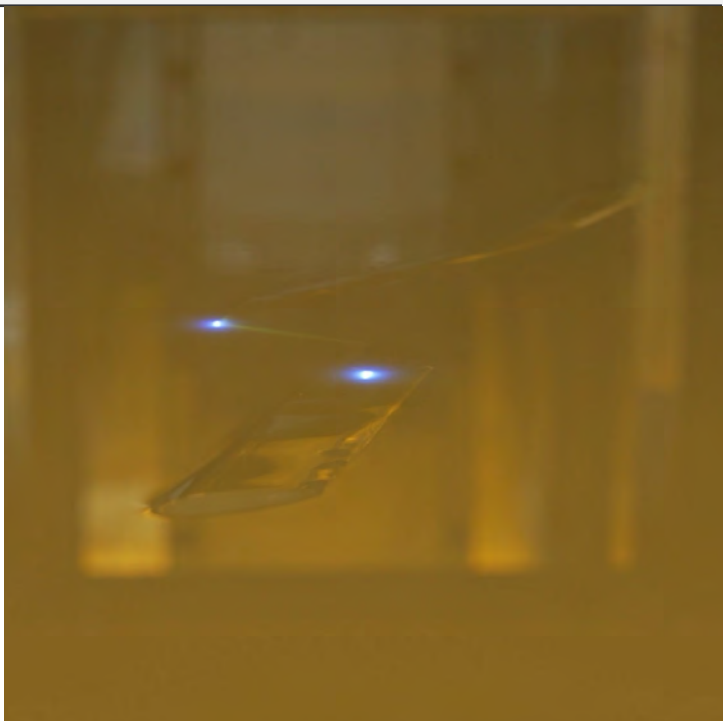
Client



Key technology 01

Multi-laser technology

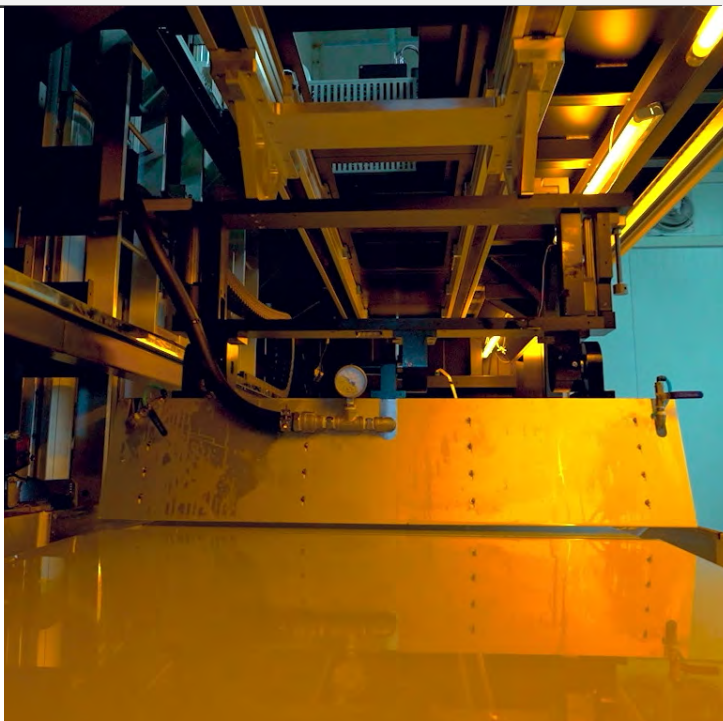
- Dual Laser control technology enables to print large-size output (**largest among domestic equipment**)
- Triple Laser control technology allows to print up to **2.3m output** (commercialized in 2021)



Key technology 02

Curtain coater recoating technology

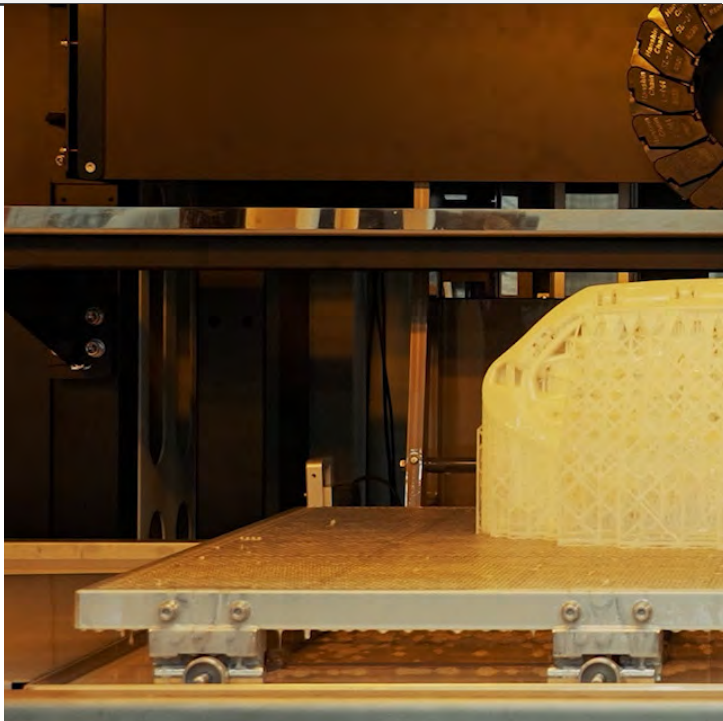
- A technology for coating resin on cured resin
- Output speed more than 3 times faster than existing technology
- Maximum recoating speed (world scale) **1,000mm/s (>30mm/s)**
- 2,000 layers printing time **13.3h (existing technology 28.8h)**



Key technology 03

Multi-laser technology

- Developed resin-saving technology through the application of resin -floating compatible materials
- **Reduced materials costs by 80%** compared to existing technology
- **Various customized materials can be applied**
- Domestic and Overseas Patent applications completed (EU, US, JP)



aerospace, semiconductor,
national defense **high value-added**
component producing printer



Client



Key technology 01

High-temperature dual extrusion nozzle technology

- Large-area printing with dual Nozzle control technology
(temperature deliver speed doubled compared to Cartridge heater)
- Maximum nozzle temperature 510°C (equal to world's best)



Key technology 02

High temperature Chamber technology

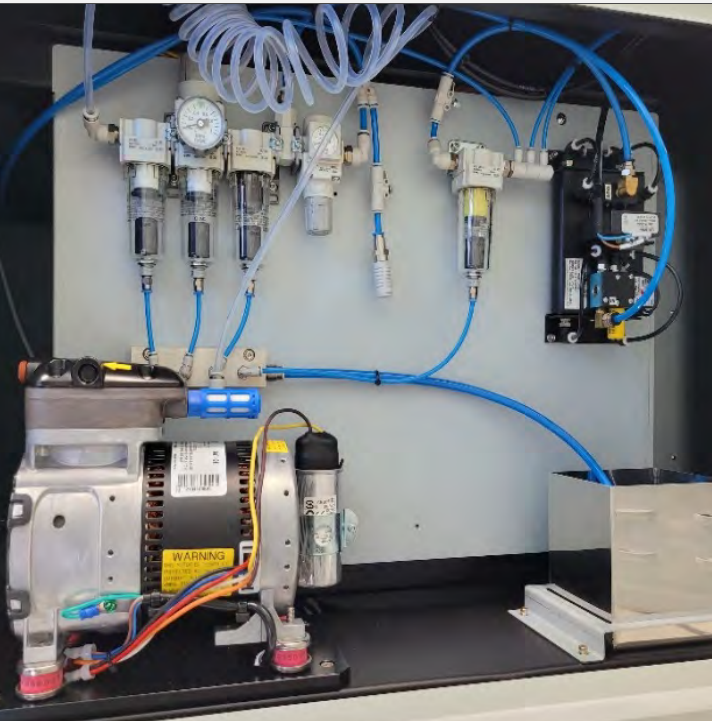
- Maximum 250°C chamber temperature (world'-class)
- Applicate air heating and forced circulation method in the chamber:
 - Temperature control using internal temperature sensor
 - The use of high chamber temperatures results in High-quality outputs.
With strong interlayer adhesion and excellent physical properties.



Key technology 03

Filament material drying technology

- Developed an automatic material drying function in the material supply system
- Improved quality and physical properties of the output with the prevention of bubble generation due to moisture during output.
- Prevention of strength reduction and material breakage after output



Ultra-small, small parts mass-producing metal 3D printer



Client



Key technology 01

High-temperature dual extrusion nozzle technology

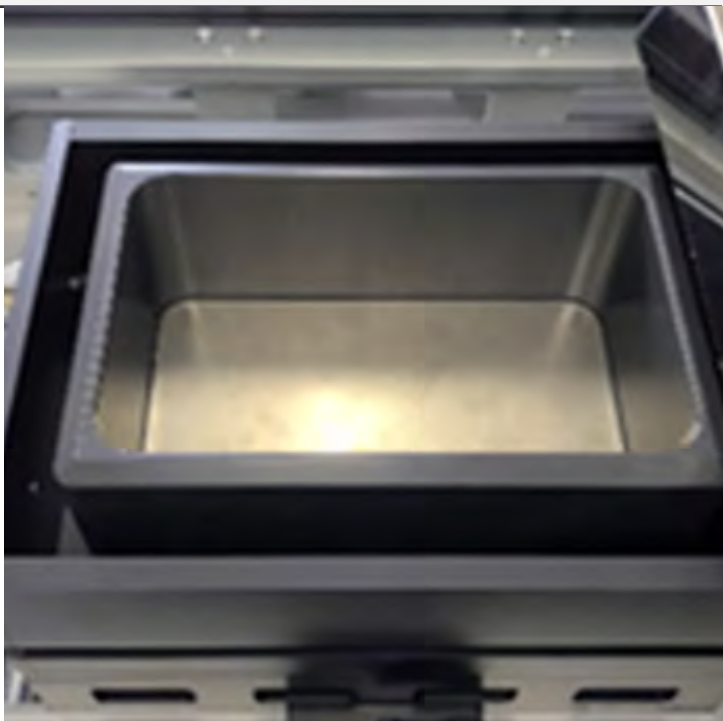
- Maximize the spray area with multi-piezoelectric head system (enabling large area printing and increased printing speed)
- Developed head cleaning sequence to prevent binder drying
- Long-term use of binder material through print head self-recycling function



Key technology 02

High-temperature chamber technology

- For fixed build platforms, they are produced in a detachable manner to mitigate the risk of damage during sample collection
- Various powders can be replaced and use (material replacement time reduced by 70%)



Key technology 03

Filament material drying technology

- Minimize powder agglomeration and sieving effect through roller drive
- Application of bidirectional material coating technology to accommodate large-area and mass-production
- Increase printing speed and productivity



Applicable materials and manufacturing technologies of our equipment

BLT S600

Powder type metal 3D printer **PBF**
600×600×600



Mid-size parts



Large parts

LINK EP-500

Developed through technological independence **FFF(FDM)**
500×500×500



Mid-size parts



Small parts

Titanium+alloy / tool steel / Cabalt C hrom / Inconel
Aluminium+alloys / Stainless Steel / Copper / Nikel+alloys

SiC / Hydroxyapatite / ZrO2 / Ca3P / Porcelain

Metal

Ceramic

Super
Engineering
Plastic

PEEK / Carbon PEEK / CFR PEEK / PEI

Engineering
Plastic

NYLON / TPU / PC / ABS / PLA / POM

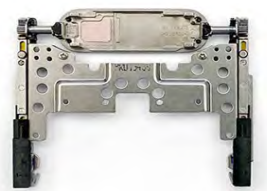
Plastic

ABS-like / PP-like

High performance
high heat resistant

LINK MBJ

Adhesive spray for sintering powder method **MBJ**
500×400×300



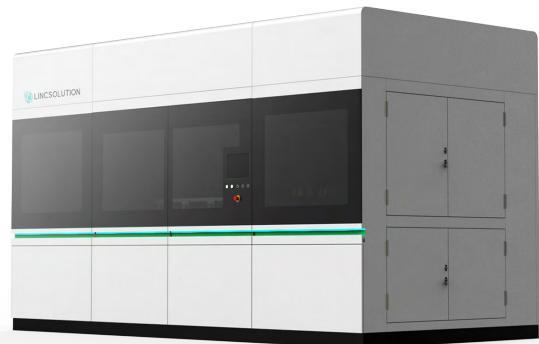
Small parts



Mass production

LINK SL-2300 / 1500

World's largest size **SLA**
2300×800×900



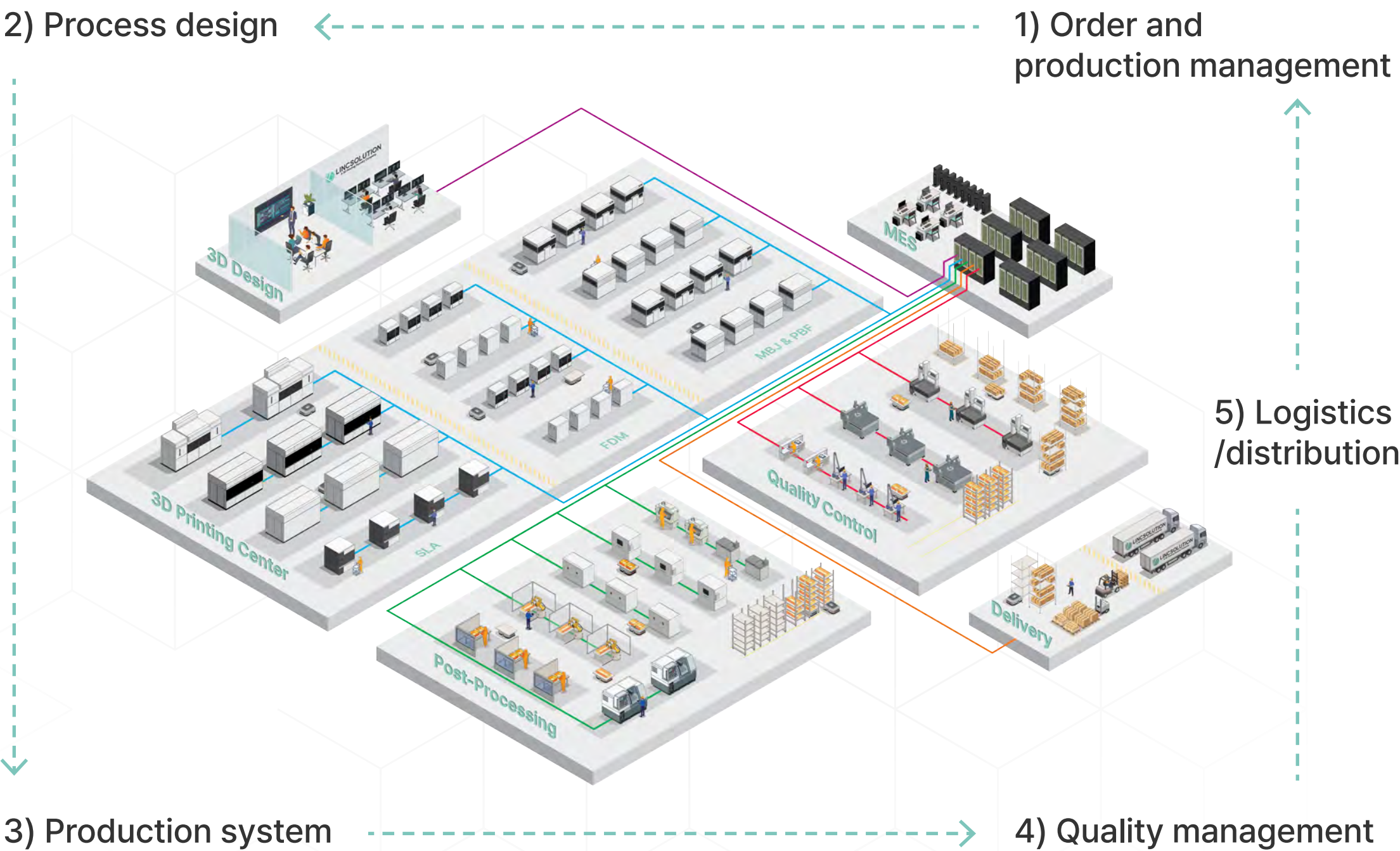
Large parts



Mass production

Automatic Manufacturing System (FOUNDRY)

In 2026 9,000 m² Daejeon (in progress)



Case study bench marking



Carbon



Key technology 01

Established an automated facilities based on in-house technology

- Building an AM Automatic Manufacturing System with self-developed equipments such as Mid,/Large-size SLA, Super Engineering Plastics, FDM, Adhesive spray for sintering powder MBJ etc...
- Maximizing operational efficiency through in-house maintenance and strengthening the ESG management system (reducing inventory rates and CO2 emissions)
- Establishing a scalable production process through a test bed.

Key technology 02

Cloud-based real time monitoring

- Real time data collection possible using various sensor based on IoT technology
- Protocol standardization through OPC-UA and development of a universal server device based on it.
- Developed an external monitoring system (21.10)
- Real-time alerts and immediate maintenance response possible upon detecting anomalies during data collection

Key technology 03

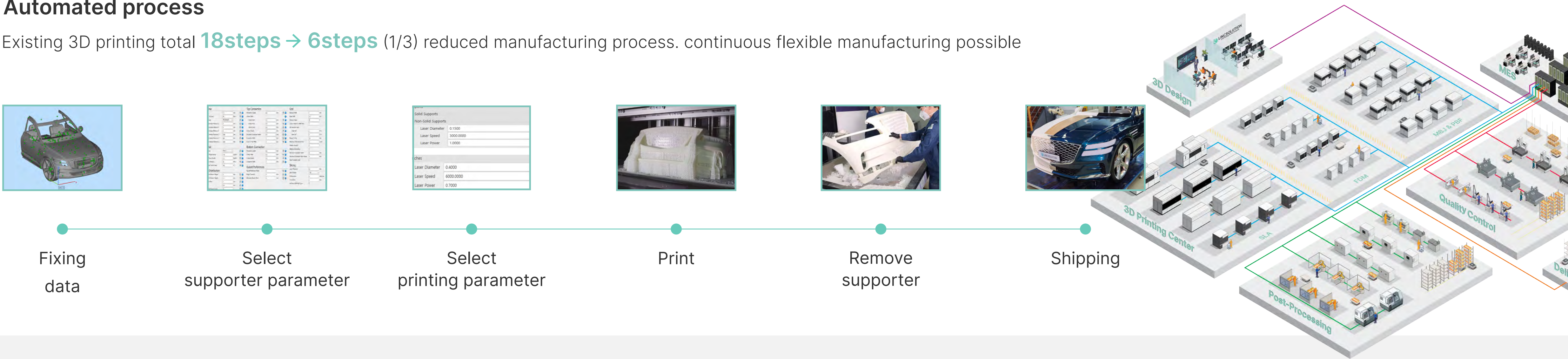
MES based automated continuous production system

- Developed MES(Manufacturing Execution System) based production management system to introduce 3d printer mass production and management system.
- AM Total Solution : Managing from product manufacturing to delivery using customer data
- AMR control and Stacker managements parts with the existing SLA system structure and expansion of new equipment

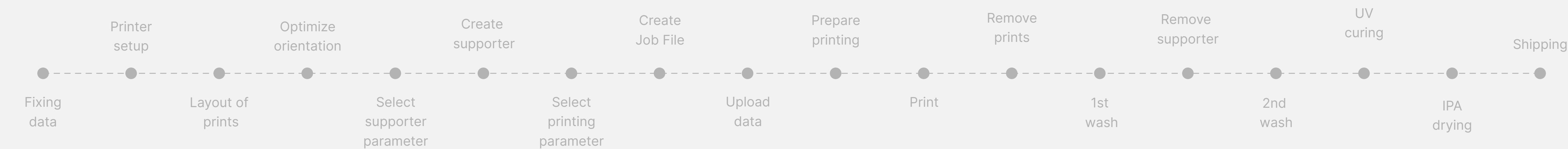
Automated continuous manufacturing

Automated process

Existing 3D printing total **18steps** → **6steps** (1/3) reduced manufacturing process. continuous flexible manufacturing possible



Existing 3D printing



BM of LINC SOLUTION Inc.

Automatic Manufacturing System

Based on data 3D printers

24h/365days system working

Industry-specific customized mass production system

ESG business (inventory X, reduce CO2)



* Exploring domestic market applications

Securing advanced technology and self-reliant equipment base

BM 01



BM 02

Automated Manufactured Plant Sales

Based on automated manufacturing system

Establishing customized manufacturing processes based on demand

Providing and selling plant solutions



* Sale of customer-based plants (planned)

Developed world's largest SLA printer

Developed first domestic PEEK 3D printer

Developed world-class MBJ 3D printer

3D printing foundry automatic manufacturing system

Sale of automated production system plants

Competitiveness of LINC SOLUTION Inc.

Automation technology necessary for expanding application beyond prototype production to mass production

Printing foundational technology

AS-IS

Overseas dependance, High initial investment

TO-BE

Securing independence through development of domestic equipment self-reliance technology and ensuring price rationality

Maintenance

AS-IS

High operating costs and production costs

TO-BE

In house maintenance (24h response) and ongoing development of high-quality materials

Materials variety

AS-IS

Low production, high production costs

TO-BE

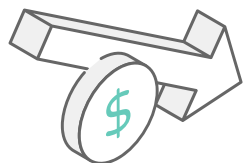
Utilizing high-speed, multi-product, mass production equipment for automated design of pre- and post-processing

Development goal

Successful cases

HP/ Carbon (US), EOS(Germany), Farsoon (China)

Customer benefit



90% reduced

Reduced customer equipment setup costst hrough in-house equipment and maintenance



50% reduced

Halved total production time of the product



99.9% quality

Standardization of output quality through the development of web-based real-time monitoring technology.

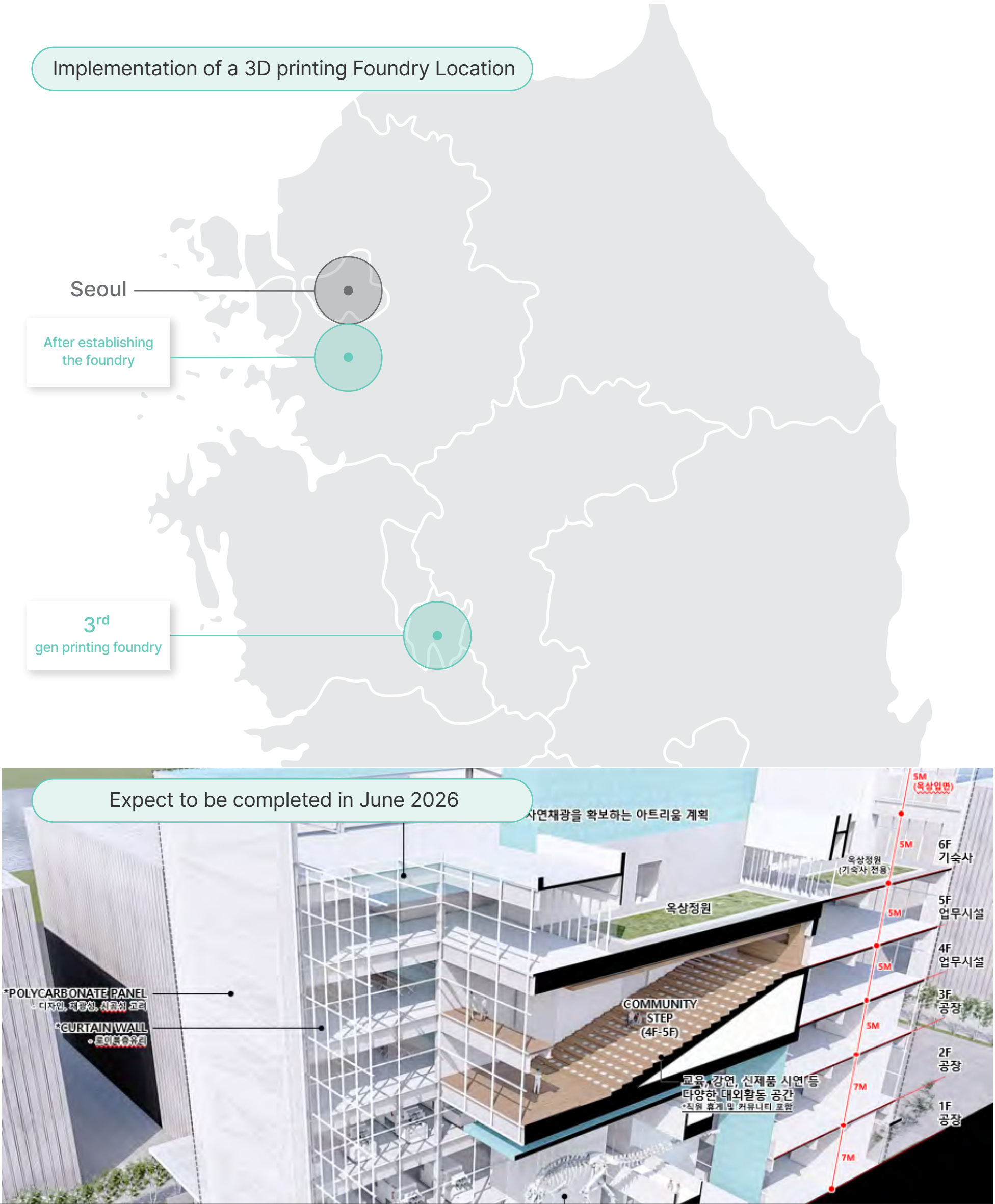
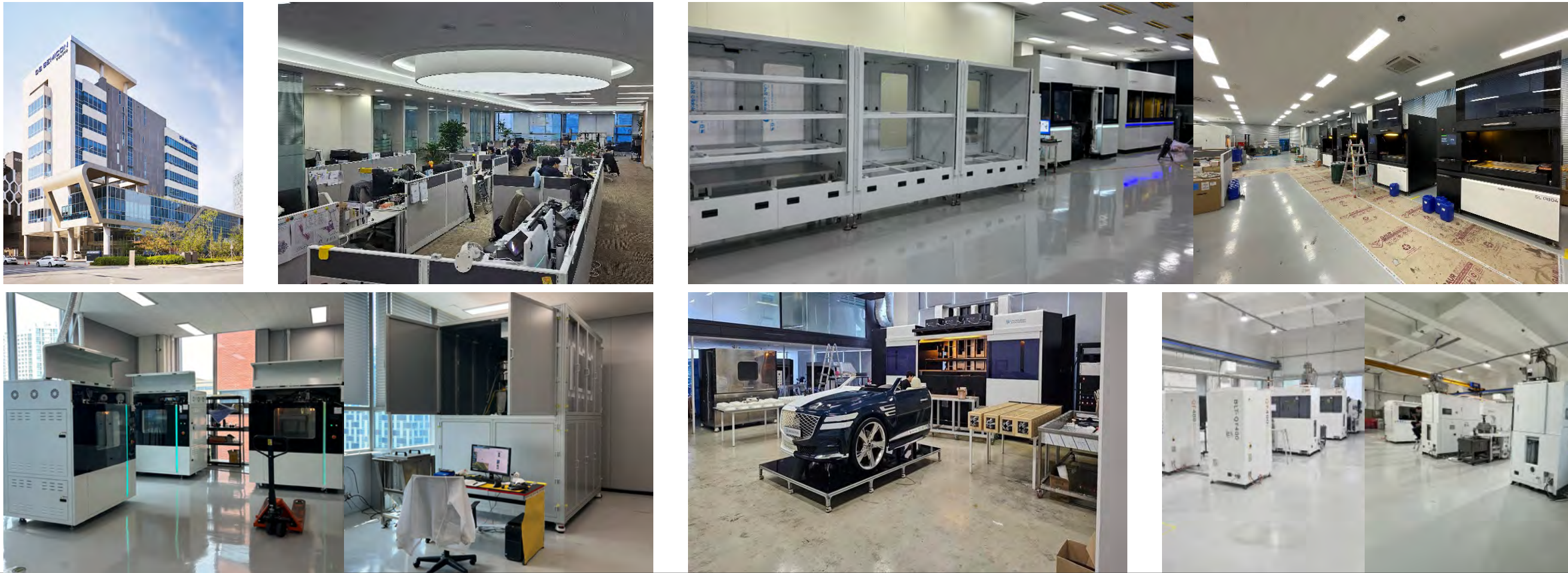


Advantages of automated manufacturing system printing foundry

9000m²(45x) 3rd generation automated digital 3D printing foundry

	2020 1 st gen printing center	2023 2 ^{ed} gen testbed	2026 3 rd gen printing foundry
area	230m ² 305% ▲	704m ² 2,817% ▲	19,834m ²
sales	800M 487% ▲	30B~ 1,794% ▲	150B
R&D labor force	8 people 200% ▲	16 people 188% ▲	30 people~
Owned equipment	10 220% ▲	15 182% ▲	50

Current address



Comparison of Manufacturing costs: current all-round industry vs Lincsolution’s 3D printing vs Automated Manufacturing Systems

After establishing the Daejeon Foundry, it is possible to achieve yield and scale productivity. We are conducting over 100 Proof of concept (POCs) and discovering new applications.

Main mass production application		Production model	Number of annual production (EA)	Current all-round industry price (KRwon/EA)	Lincsolution current price (KRwon/EA)	Automobile manufacturing system price (KRwon/EA) / Reduction rate	Note
		Sewing jig	6,588	251,085	SLA 74,157 (▼ 70%)	61,180 (▼ 76%)	
		Spray jig	264	490,222	MJF 262,513 (▼ 46%)	217,886 (▼ 56%)	
		Dental care brace Mast Model	9,375	76,398	SLA 52,714 (▼ 31%)	42,171 (▼ 45%)	
		Racing car Brake air duct	150	3,713,120	SLA 2,673,446 (▼ 28%)	2,058,553 (▼ 45%)	
		Master model	584	1,830,000	FDM 1,281,000 (▼ 30%)	1,037,610 (▼ 43%)	
		Bearing bushing	5,000	3,713,120	PBF 352,360 (▼ 28%)	285,412 (▼ 42%)	

Growth into 3rd Gen., 3D Printing Foundry

Metal 3D printer



LINK MBJ - 12 EA

Printer Type
Metal Binder Jet

Build Dimension
500×400×300mm (W×D×H)



BLT S400 - 12 EA

Printer Type
Power Bed Fusion

Build Dimension
400×300×400mm (W×D×H)

Laser Power
500W×6



BLT S450 - 2 EA

Printer Type
Power Bed Fusion

Build Dimension
450×450×500mm (W×D×H)

Laser Power
500W×8



BLT S600 - 2 EA

Printer Type
Power Bed Fusion

Build Dimension
600×600×600mm (W×D×H)

Laser Power
500W×8



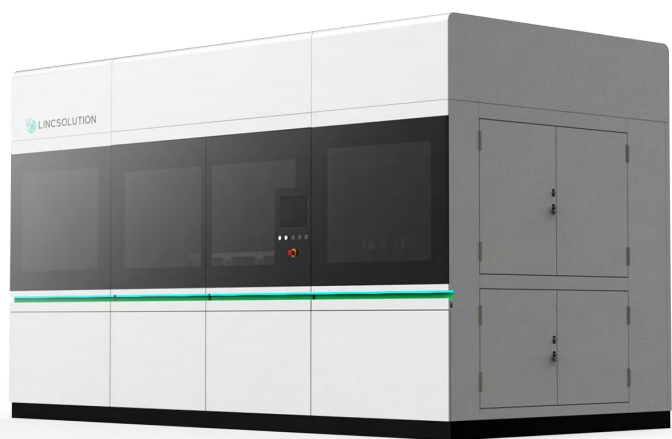
BLT S800 - 3 EA

Printer Type
Power Bed Fusion

Build Dimension
800×800×650mm (W×D×H)

Laser Power
500W×10

Growth into 3rd Gen., 3D Printing Foundry Polymer 3D Printer



SL-1500 – 10 EA

Printer Type
Stereolithography Apparatus

Build Dimension
1540×790×550mm (W×D×H)



SL-2300 – 6 EA

Printer Type
Stereolithography Apparatus

Build Dimension
2300×850×1000mm (W×D×H)



SLA – 28 EA

Printer Type
Stereolithography Apparatus

Build Dimension
800×8000×500mm (W×D×H)



EP-500 – 10 EA

Printer Type
Fused Filament Fabrication

Build Dimension
500×500×500mm (W×D×H)



HP – 20 EA

Printer Type
Multi Jet Fusion

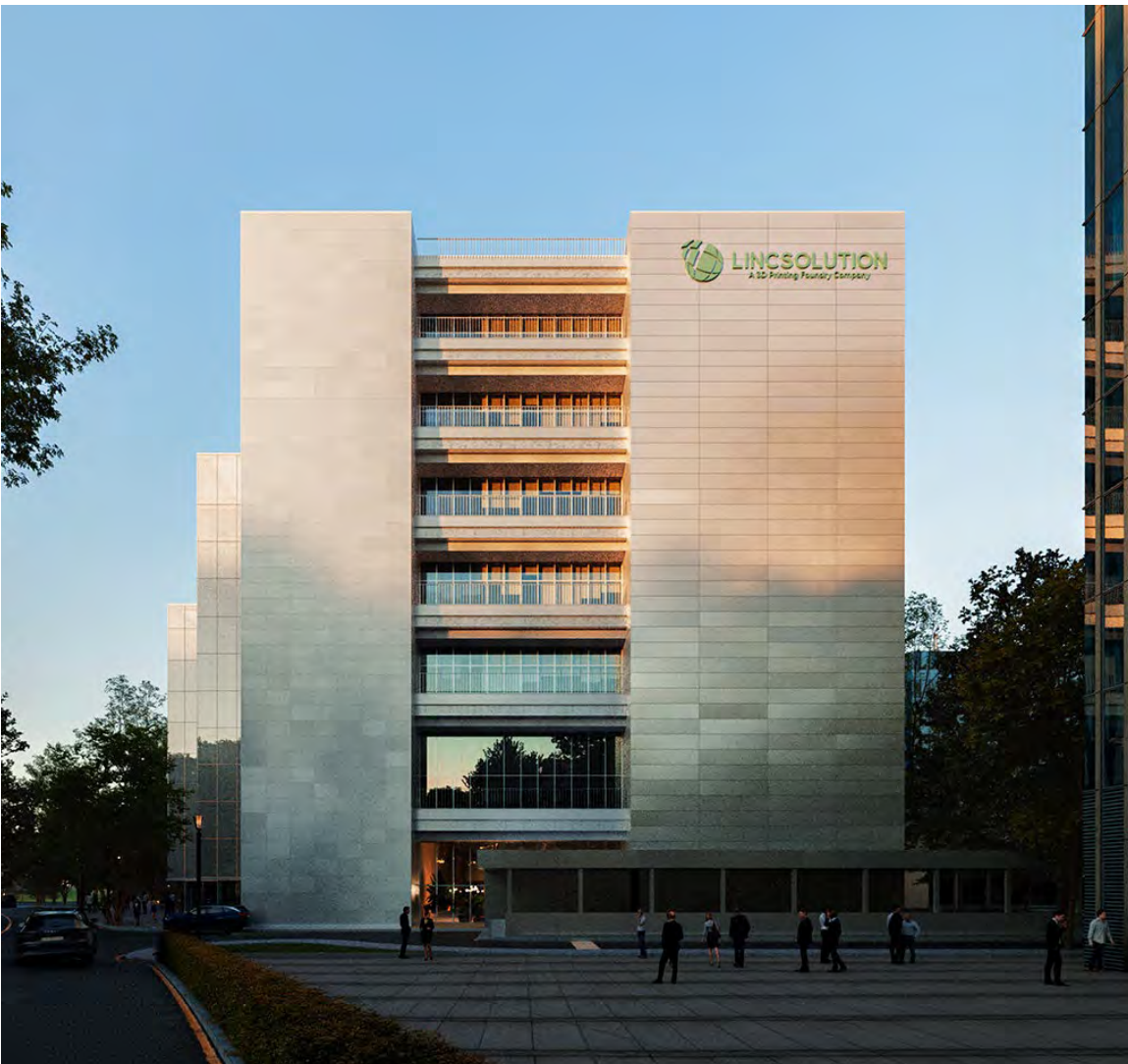
Build Dimension
380×284×380mm (W×D×H)

Plan to Establish the Largest Automated Production Facility in Korea

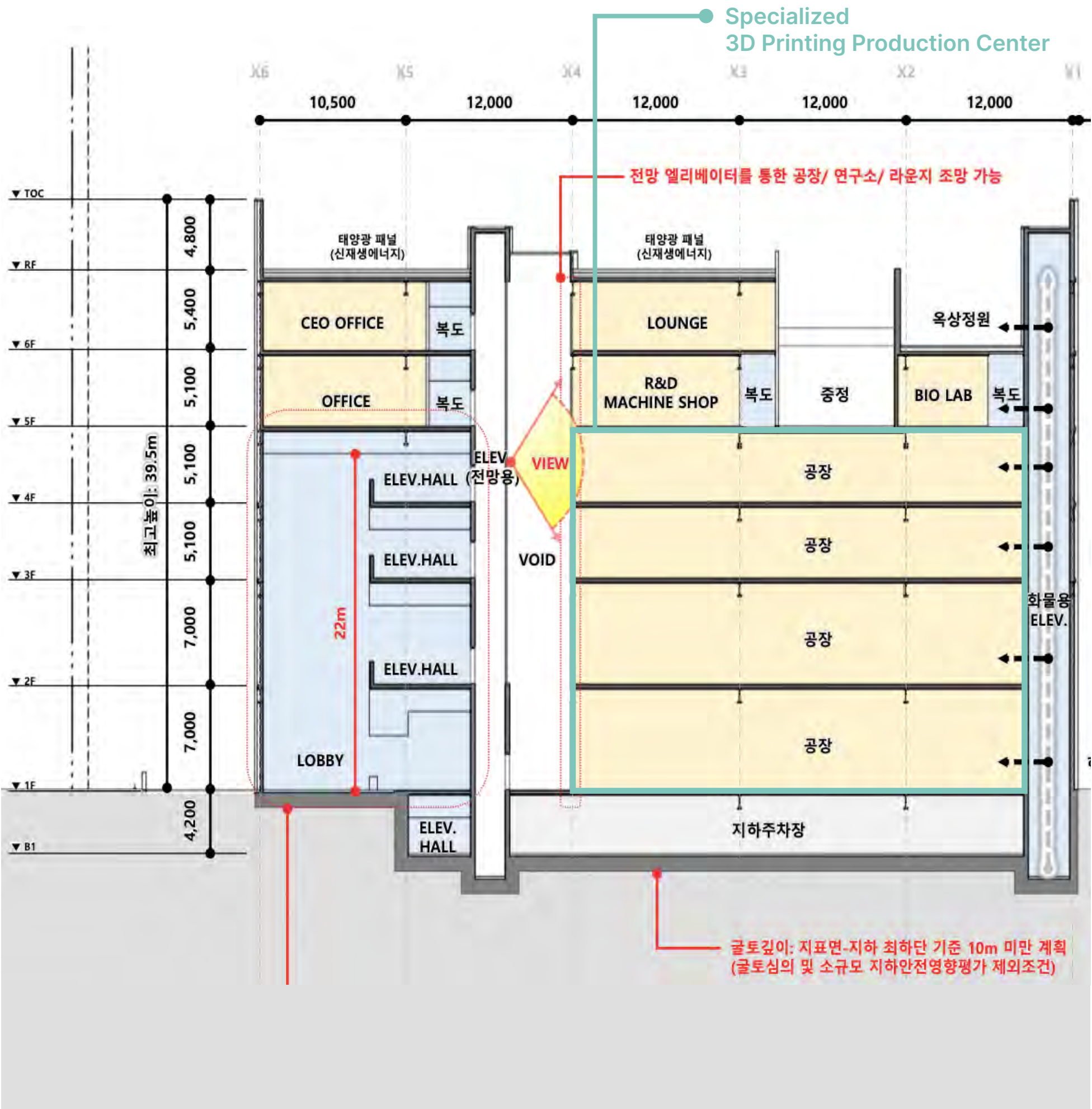
Completing in June 2026 with integrated facilities and automated additive manufacturing.

Location	461-1 Daehwa-dong, Daedeok-gu, Daejeon, South Korea
Site Area	6,600m ²
Building Size	13,200m ² (approx. 4,000 pyeong, floor area ratio 400%)
Investment	Approx. KRW 50 billion for facility construction

Enhancing efficiency through Korea's largest smart factory and digital manufacturing

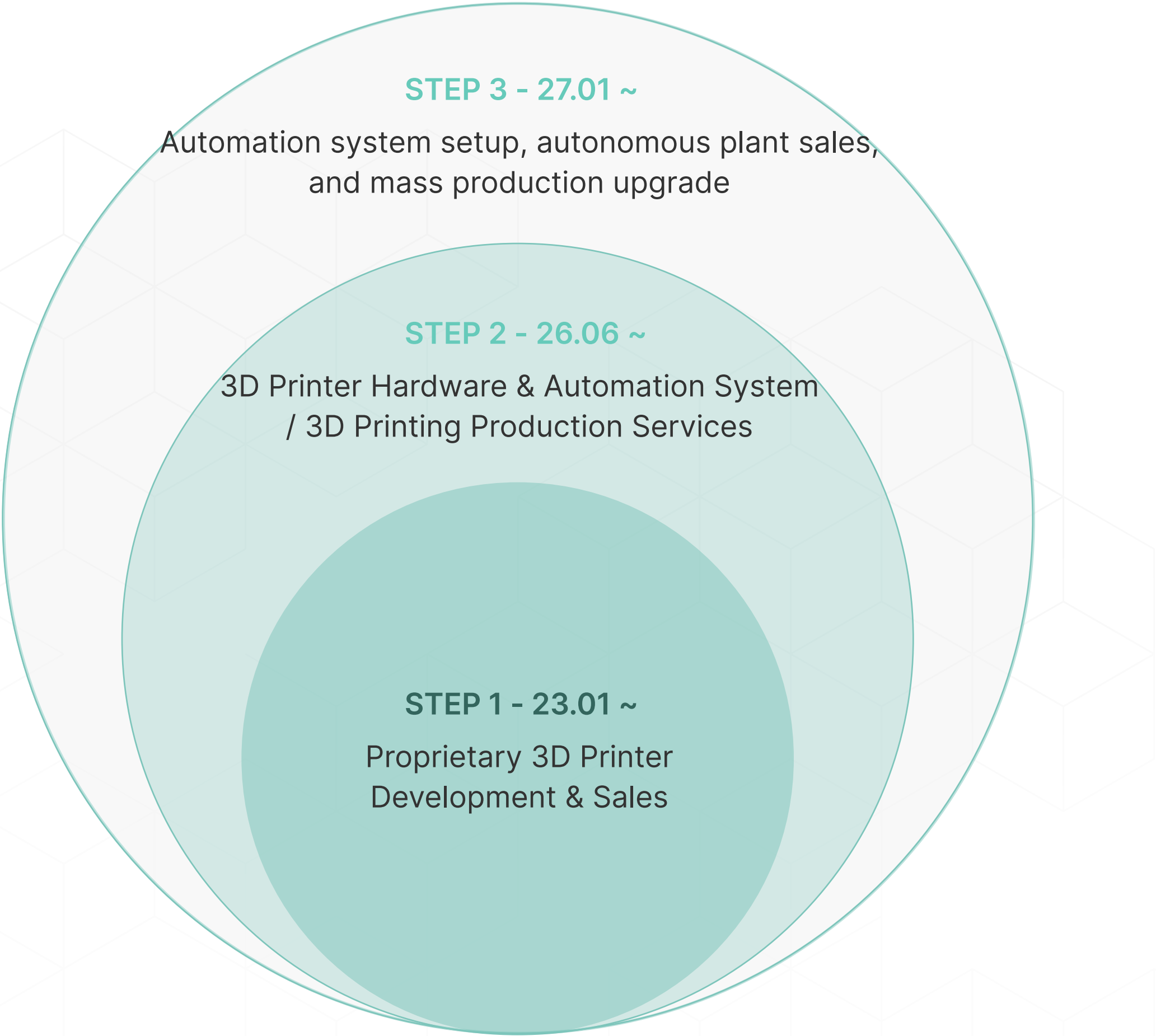


Expanding from a 200m² center to a 9,000m² next-gen automated 3D printing foundry, enabling scalable, customized production.



Business model and expansion roadmap to penetrate target markets

Current Business Model and Future Expansion Roadmap



STEP 1 - Tech-Based Product Sales & Mass Production Launch

Proprietary 3D Printer Development & Sales

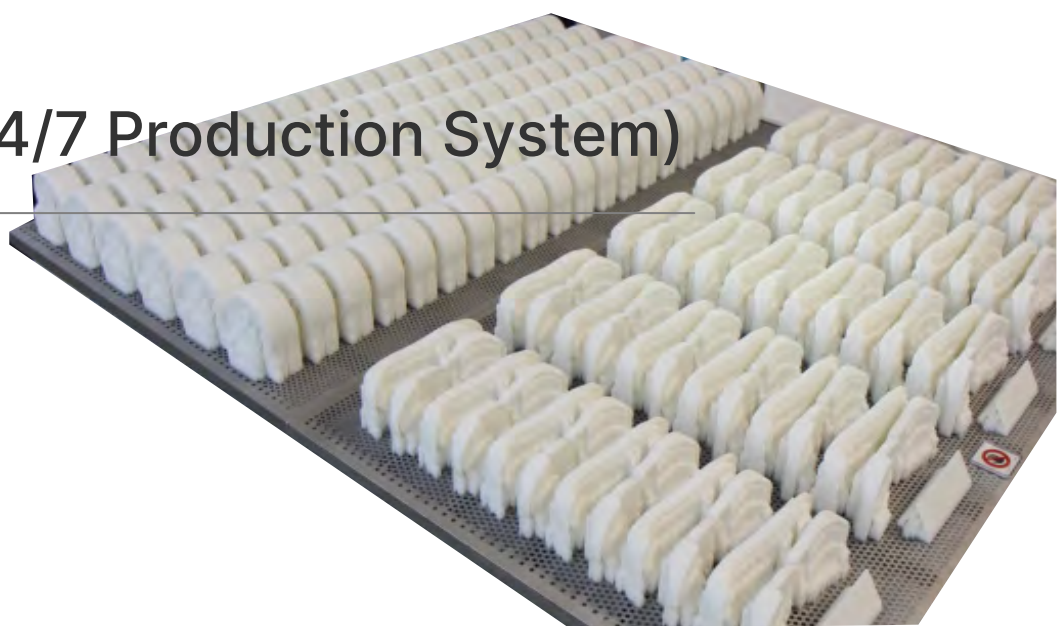
- World Largest SLA Printer Developed & Launched
- "Top-Tier MJB Metal Printer Development"
- Korea's First PEEK FDM Printer Developed & Launched



STEP 2 - High-Performance Parts & Mass Production POC

3D Printing Services: Sales and Growth (24/7 Production System)

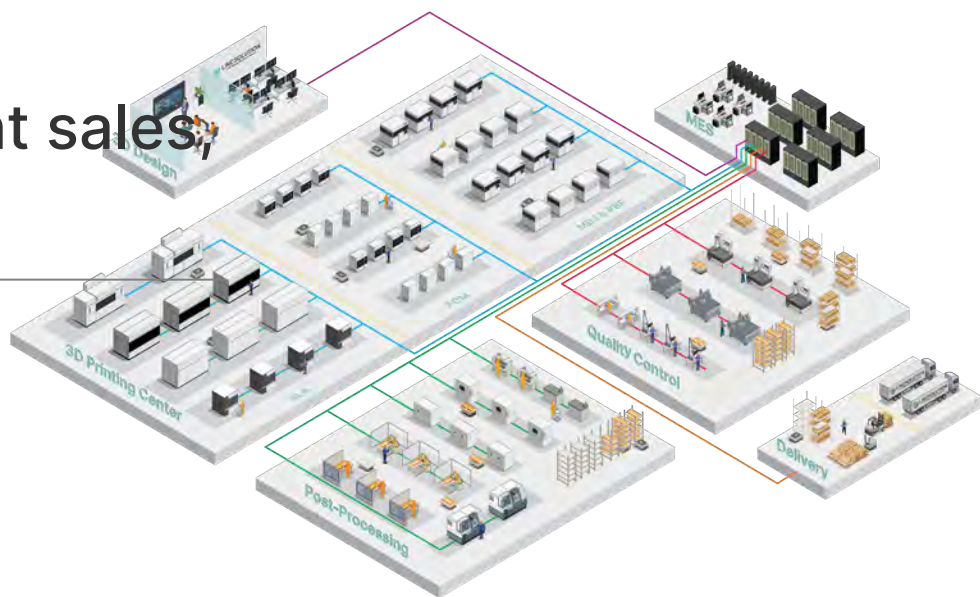
- Industry-Specific Parts with Proven POC
- 24/7 System Enables Mass Production
- Tech-Driven High-Value Equipment Sales



STEP 3 - Autonomous Plant Sales & Scalable Growth

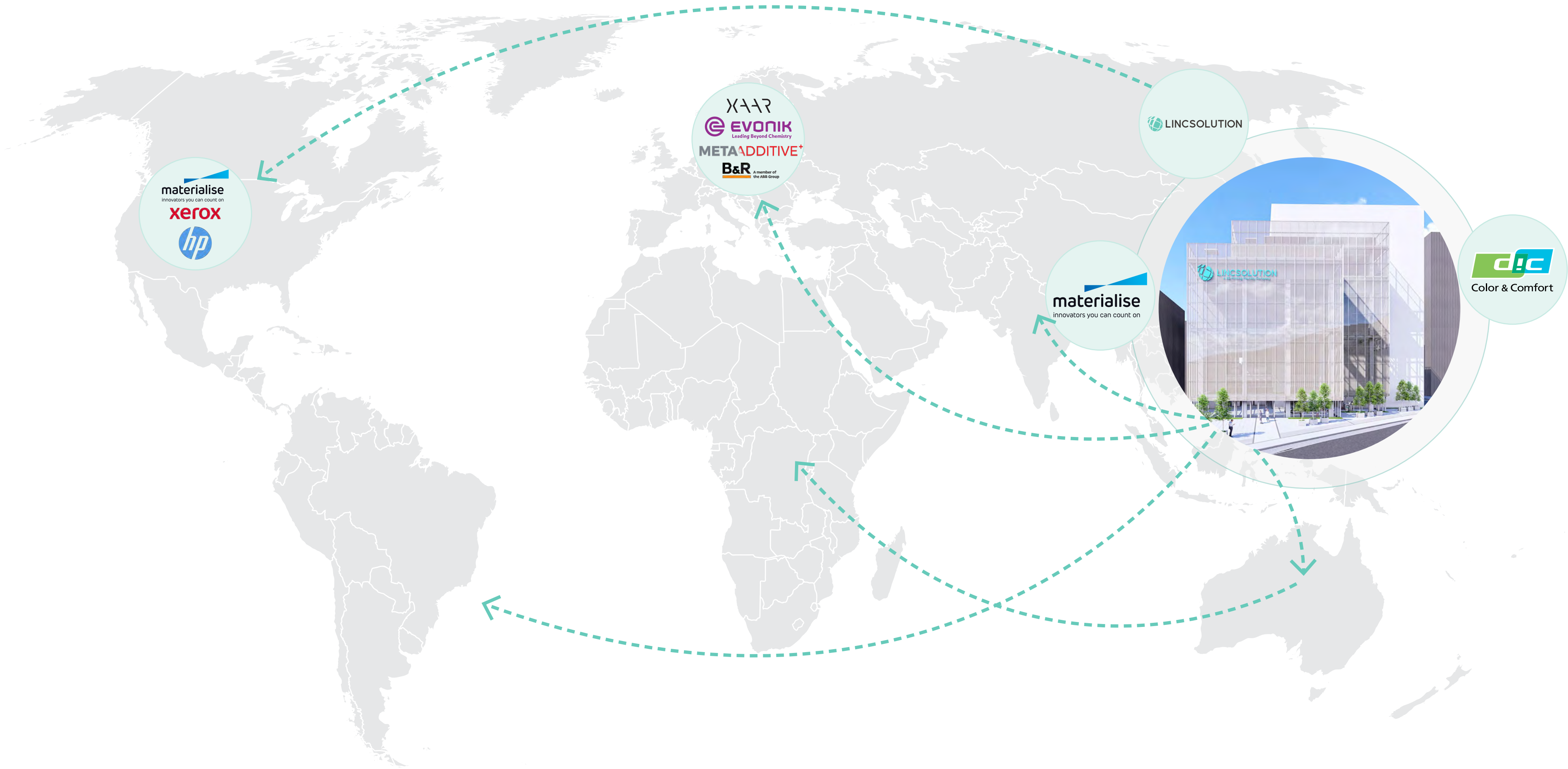
Automation system setup, autonomous plant sales, and mass production upgrade

- Autonomous Manufacturing with Stable Yield
- Plant Sales for Scaled Revenue Growth
- Application Expansion for Production Growth



Building Global Collaboration & Partnerships to Become Korea's Leading 3D Printing Solution Provider with Global Reach.

Lincsolution is committed to making Korea a global 3D printing leader in Asia and a pioneer in next-gen manufacturing





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