













We farm us We farm earth We are farmers

To create a sustainable future for both humanity and the Earth through the application of innovative agricultural technologies.

NEXTON Core Value



Lighting System(LED) Technology

Paramount LED-Tech Experience Over 20 years Majority tech members from Seoul Semiconductor



Crop Management Practices

2021 - Producing leaves and herbs from the void space in the Seoul Metro subway station

2020 - Succeeded in mass-producing strawberries in the low-temp. indoor farm for the first time in the world

2018 - Succeeded in operating the tunnel indoor farm at the largest scale in the world

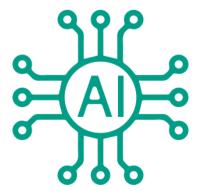


R&D High Valued Products

Running Biochemistry and Physiology LAB to equalise phytochemicals in any plants

Operating Cannabis Research Centre to optimised CBD and

THC components



Big Data & A.I

Established the cultivation environment to control temperature, humidity level, and water, and created the optimal cultivation environment for collection and analysis of growth information such as plant height and growth speed based on our over 7 years of cultivation experience.



Enhance CEA Viability (Zero Carbon)

Operating Seoul Metro Farm (5600 sqm) and Highway Tunnel (7000 sqm) to save Energy. 97% Recycled Water System in Farming irrigation, using UV sterilization

Overview

2017



NEXTON Established in January (2017.1)

Developed photosynthetic specialized LED, low-heat LED

· Commenced Okcheon Indoor Farm Pilot Line (500sqm)

2022



- Overseas exports of vertical indoor farms amounted USD 5.4 million
- Signed MOU with IAC(Invest Alberta Coporation)
- Joint venture with Kuwait's biggest investment cooperation, Mawarid Co.

2018



· 42 crop plants certified as Environment

- -Friendly Agricultural Products(GAP, USD)
- · World's first to transform abandoned tunnel into world's largest plant farm
- Series A funded

2023



• Established Nexton Mena Saudi Arabia, Contracted to install 16 indoor farms over GCC region by 2024(KRW 300 billion)

- Selected for the exhibiting company at Saudi Arabia Biban Exhibition
- Remodel 6th Industrial Revolution Convergence Cultural Urban Farm (Seoul Nambu Terminal)
- Opened World largest Vertical Indoor Farm for low temperature Premium Strawberry Production (Land area: 17,385sqm, Cultivate area: 4,521sqm)
- Previewed MADBERRY FARMHOUSE(Converged Urban Farm)
- Selected as KSA, UAE, UK, Netherland, Poland Economic Delegates /
- Signed 6 MOUs with overseas companies, MISA, PMI, AL MALAR, QATAR, HO SO GIOI THIEU CONG TY
- Signed 2 Academic MOUs with KyungHee Uni. And Seoul Cyber Uni.

2019



· Obtained cannabis cultivation license

- · Partnership with major retail companies (Starbucks, Galleria, Shinsegae, Lotte,
- · E-mart, Coupang, Market Curly, etc.)
- · Selected for Seoul Nambu Metro Urban Farm Establishment Pilot Project (5,600m²)
- Established urban farm specialized subsidiary "Metro Valley Co., Ltd"

2024



- Established Nexton Asia in Singapore
- Signed an MOU with Daejeon Metropolitan City for the creation of a smart agriculture hub city.)
- Signed an MOU with 'P' Company in Singapore for Smart Farm Cooperation Initiatives
- Selected for and participated in the Singapore Economic Delegation
- Showcased at AFTEA Exhibition in Singapore
- · Recorded 59 accumulated patents, ranking worldwide No.1 in Indoor Farm sector

2020



 Established biomaterial R&D subsidiary "Chem-Nature Co., Ltd" in Kangwon Province

- · Developed high-purity cannabinoid
- · Obtained cannabis research permission, Selected for testbed cannabis cultivation
- · World's first to mass produce premium strawberry from plant farm (abt. 120Ton/year)

2021



USDA-NOP Certified (U.S Department of Agricultural National Organic Program)

 Signed MOU with City of Taebaek for "ECO JOB CITY", The City Regenerating Project 2025



• Grand opening of Urban Farm Complex(4,500m2) at Nambu Metro Station in Seocho, Seoul



Awards

Selected for KOSME excellent 'Venture Company'

2021



- · Gold Prize at the International Invention Exhibition in Geneva, Switzerland
- Korea Science and Technology Awards
- · Ministry of Agriculture, Food and Rural Affairs
- · Certified as an excellent venture



· Certified as 'Excellent Technology Company' by the Minister of Agriculture, Food and Rural

• Selected as 'First Penguin Venture company' by Ministry of Economy and Finance around Finance around 20 companies per year

2022



• Certified as an excellent venture company from Korea Venture **Business Association**



Commendation as an excellent venture start up business by KOSME

 Achievement Awards for employment creation for Elderly workers from the Korea Elderly Association under the Ministry of Health and Welfare



• Designated as UAE Economic Missions(Representative for Advanced Precision Agriculture Industry of Korea)

• Selected as 'Family Company' by Korea Institute of Civil engineering and building Technology



Selected as K-unicorn 'Baby unicorn 200' by KOSME

• Selected as Korea 'Next unicorn' by KOSME

 Selected as "Korea Innovative Company National Representative 200" by Financial Services Commission 2024



• Awarded the 'Creative Innovator' sector at the HDI Human Management Awards.

2021



· 2 Minister's Commendation (No. 9644)

- · Ministry of Agriculture, Food and Rural Affairs Commendation (No.118976)
- Selected as excellent venture company (No.21 23)
- · Selected as an influential future CEO by Ministry of Science and ICT
- Korea CEO Leadership Awards(Ministry of Trade, Industry and Energy)

Indoor Farm ·R&D



Indoorfarms	Location	Main Business Area					
Taebaek (4,521m²)	1756 Taebaek-ro, Taebaek-si, Gangwon-do	Premium strawberry cultivation					
Okcheon Tunnel (6,700m²)	171-7 Myogeum-ri, Cheongseong-myeon, Okcheon-gun, Chungcheongbuk-do	Biomaterials, Cannabis, Greens, Fruits (strawberries) cultivation					
Nambu Metro (4,860m²)	31, Seocho Jungang-ro, Seocho-gu, Seoul	Greens & fruits cultivation and research for developing new crops					
Myeongdong Pop-up (580m²)	30, Myeongdong 6-gil, Jung-gu, Seoul	Urban Farmhouse (Production and Retails)					
R&DCenter	Location	Main Business Area					
R&DCenter HQ & R/D Center	Location 59, Hyoryeong-ro, Seocho-gu, Seoul	Main Business Area CEA solution development, natural product based phytochemicals and bioactivity research					
		CEA solution development, natural product based					
HQ & R/D Center	59, Hyoryeong-ro, Seocho-gu, Seoul	CEA solution development, natural product based phytochemicals and bioactivity research					

Business Landscape



CEA Solutions

Specialized CEA Solution Indoor Vertical Farm

Automated HVAC System / Irrigation System LED Control System
Integrated Analysis Applications /Remote Monitoring and Control System DATA & Al Solutions

Seller Market

Urban Farm Business Platform

Urban Farm Platform to utilize idle land

Cultivation and sale of premium leafy greens, herbs, strawberries and other healthy food crops Branding of processed products using premium harvests Local urban delivery to provide fresher and healthier products

Bio /Industrial /Cosmetics

Phytochemical Application

Applied to various industrial materials as phytochemicals

Used in high-nutrition health foods, functional foods, cosmetics, pet food and more

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Strategic Investors







Translink (US Based VC)

KB Investment

Government-run Investment Institution





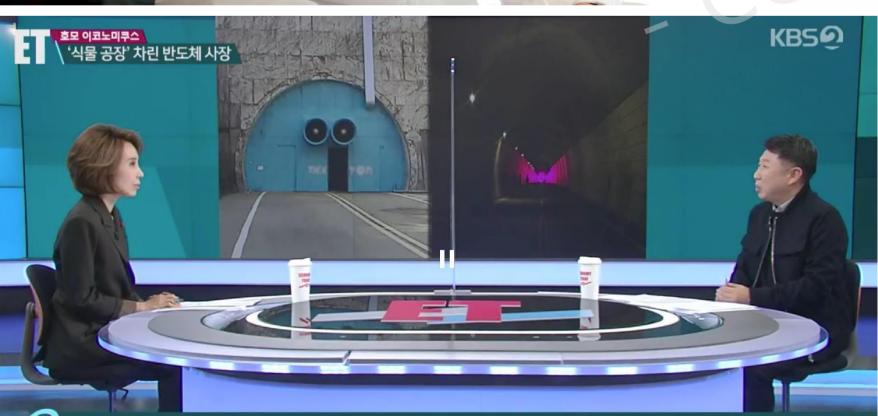
Bio Specialized VC

CJ affiliation VC

Press

With the differentiated technology and innovation, NEXTON have been introduced through 70 medias of domestic and overseas in more than 40 countries.











































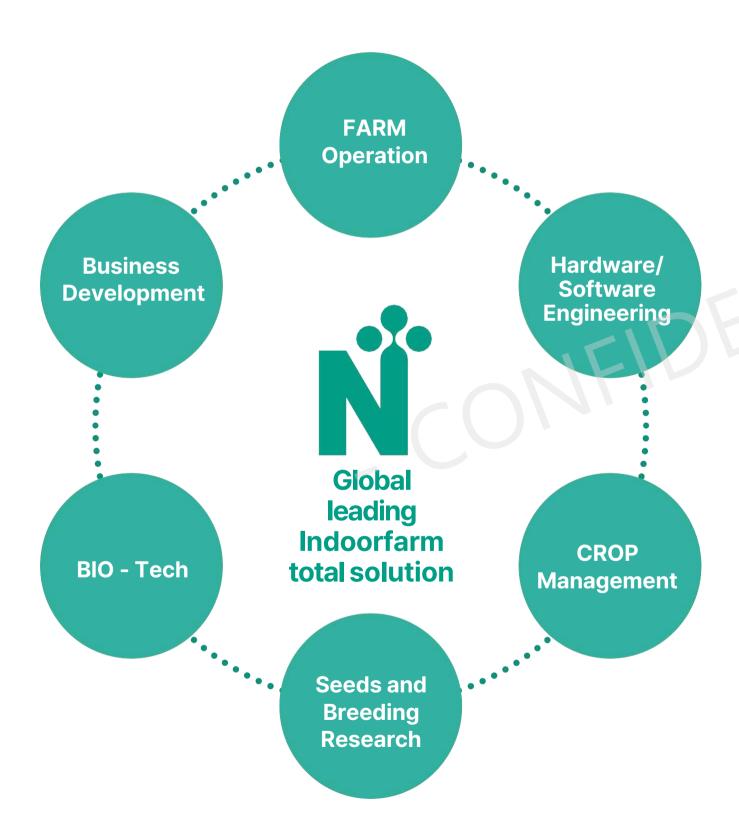








AG-TECH Team



Automated Control & Monitoring System

- -HVAC Control System
- Nutrient Control System

Application Service (Analysis & Monitoring)

- PC / Tablet / Smartphone (Variable Device)
- G&D Knowledge Analysis
- Phyto Visioning & Algorithm

Remote Control System

- IoT Communication
- Monitoring / Algorithm Control

Big DATA & Al Solution

- Machine Learning/Deep Learning Algorithm
- Predicting Production
- Logistics & Sales Forecast



CEA Solution Business Model



Vessel On Site Model

Vertical Module customized for Vessel Fresh and Nutritious food crops even on long voyages



Hotels & Restaurants

On-site Organic Growing System
Farm-Fresh food crops to serve healthy menu



Underground Farm(Nambu Terminal Tube Station)

The Largest Urban Indoor Farm in the World Zero Carbon, Utilizing Idle Urban Spaces



Tunnel Farm (Highway Tunnel in Okcheon)

World First and Largest Vertical Indoor Farm for Strawberry production on a large-scale



TAE-BAEK ECO JOB CITY

World Largest Vertical indoor farm especially designed to produce premium strawberrv
Transforming Old Coal Mine area into K-Smart Farm
(Jangsung area)



QVIX-Red/Green(Modular Farm)

Compact, Placeable, Customizable Individual Indoor Farm Standard 1 set: 21,600 x 4,600 x 3,700 mm

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NEXTON CEA Solution

The future of sustainable agriculure through innovative CEA indoor farming solutions

Cost Reduction: More than

50%

50% less than other LED investment cost Save max. 50% in HVAC investment cost



Less Energy Usage: Save up to

65%

Specialized LEDs for high efficiency, low heat plant growth 35% lower power usage than competitors

*Based on LED & HVAC Tech



Higher Productivity:

33% UP

Structure Design & Automation Tech. Self moving Robot Tech. **Optimal Working Track**



Production Efficiency

365 days

Grow 365 days a year, increase crop production and reduce time from seedling to harvest

- * Harvest after 20 days for leafy greens (100 days to harvest in the field)
- * 17 crops per year (quadruple crops per year for the field grown lettuce)

Scale-Up

Single large scale indoor farm with operation & management know-how Successfully mass producing and running crops

- Nambu Plant: 1,400m² (420 PY)



Sustainability Less than

1% Water waste

Utilizing abandoned tunnels, underground malls, and abandoned mines Zero wastewater discharge UV sterilization for nutrient solutions Practice less than 1% water waste through recycling



High value added technology

Phytochemicals

Functional ingredients extracted from natural product Functional compound research and manifestation

Amplification, extraction, separation, and purification of active ingredients Patenting and commercializing extracted material



High value added seed industry

Zyears

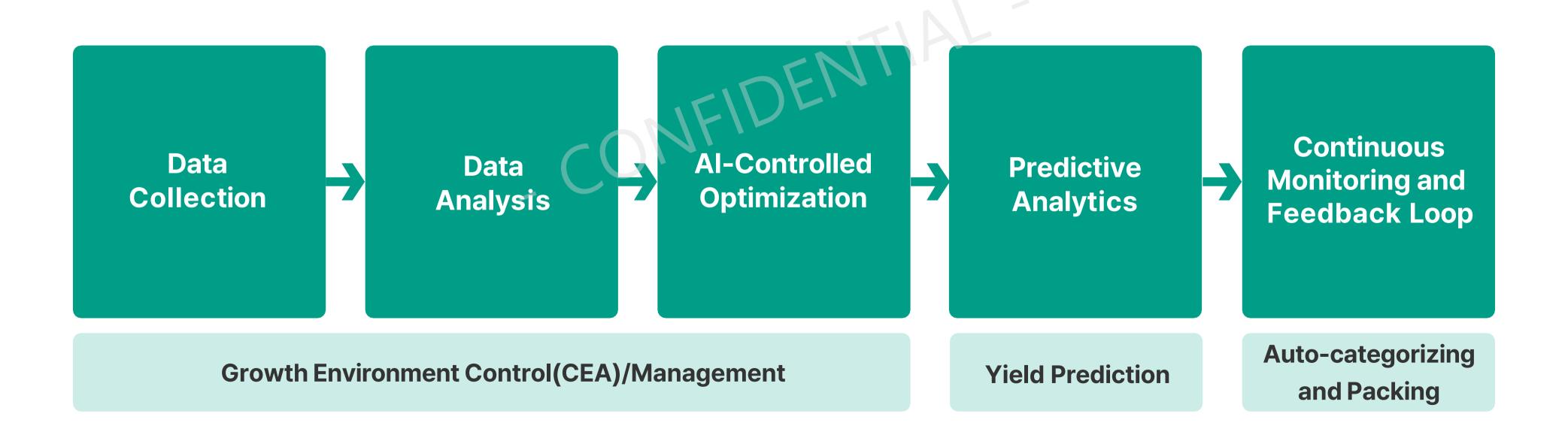
Seed patents and seed development research for indoor farming Aim to lead in speciality seed development Reduce seed development time

*Indoor farm seed development takes 2 years (Greenhouse takes 10 years)



NEXTON AG-TECH Highlight

Al Data Farming Platform



NEXTON AG-TECH Highlight

Autonomous Mobile Robot Integration of camera-based detection, monitoring, and robotic automation

Camera-Based Automatic Detection

Monitoring and Analysis Data Monitoring and Evaluating growth state of strawberries

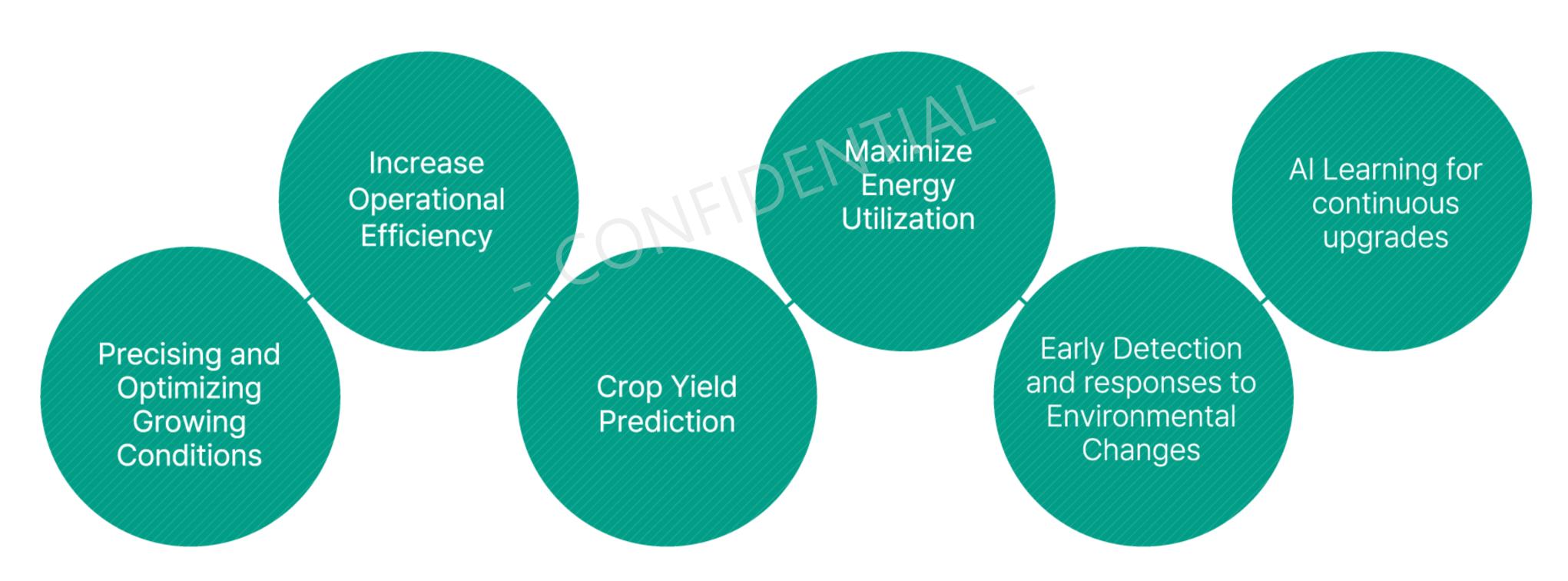


Autonomous Mobile Robot

Picking up, Transporting and Delivering tems
Smart Logistics robot system
Unmanned Farming Operation

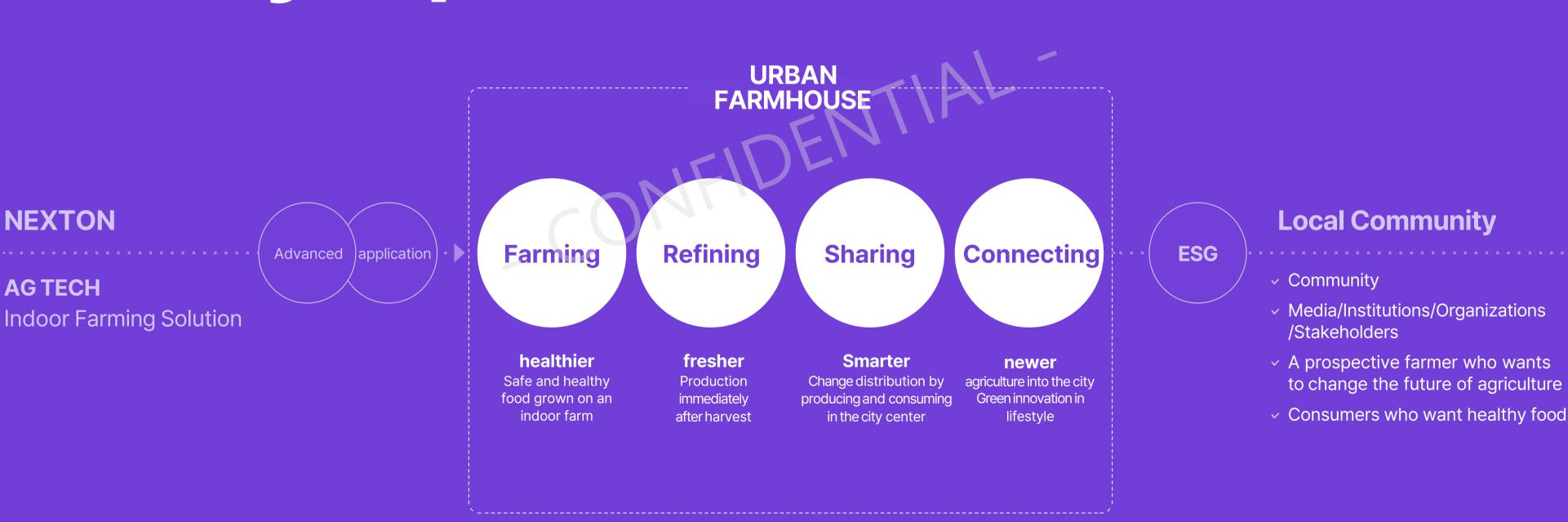


NEXTON AG-TECH Highlight





Innovative Life style platform





Urban Farming Society

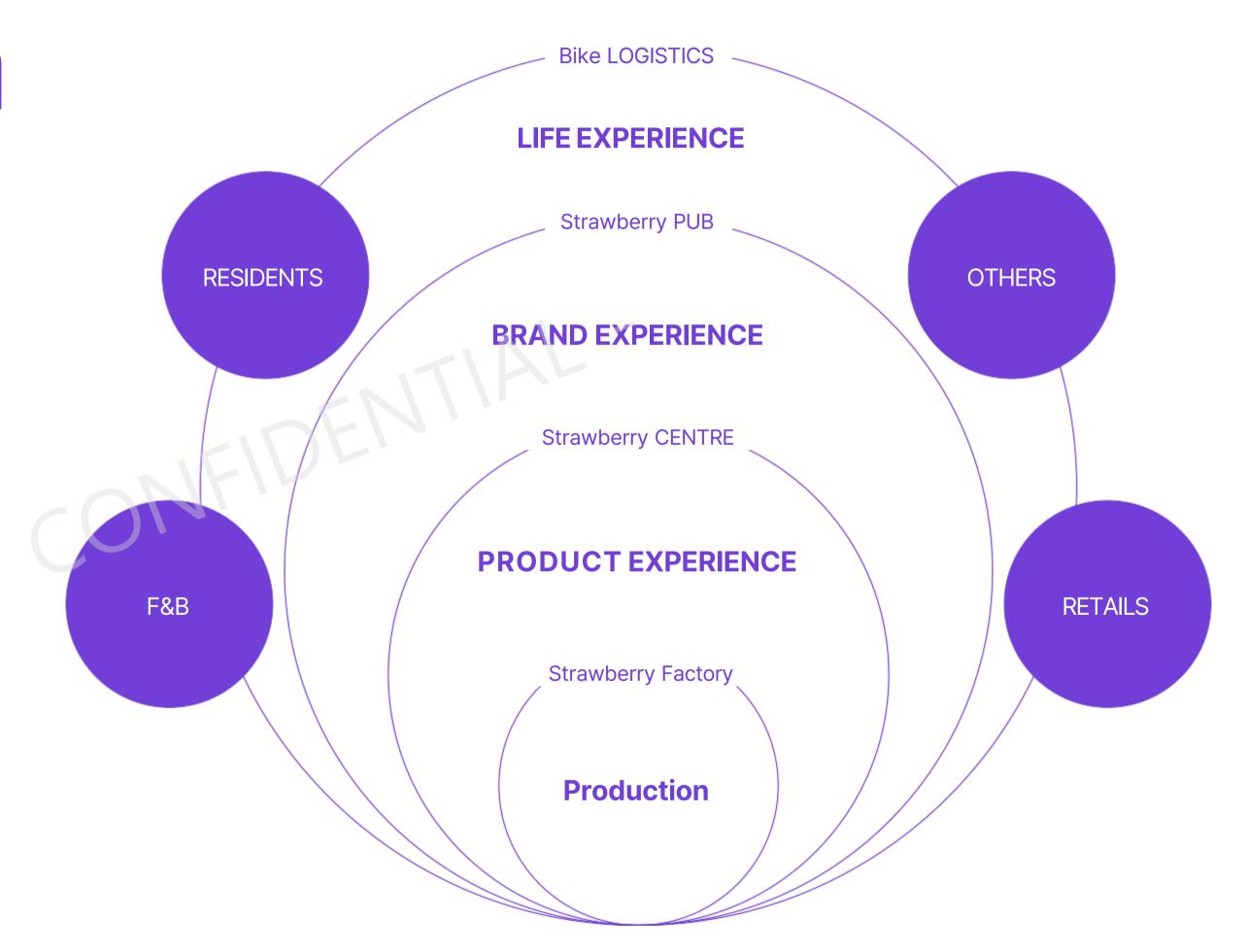
NEXTON introduces an immersive urban farm lifestyle platform, inviting you to explore the realm of urban agriculture. Our ground breaking initiative involves the establishment of a vertical indoor farm at Seoul NAMBU Metro Station, bringing sustainable agriculture practices to the heart of the city.

As pioneers in global indoor vertical farming technology, we strive to create a harmonious food tech system that embodies a virtuous cycle. Leveraging NEXTON's precision environmental control technology, we cultivate and process premium-grade raw materials, ensuring the highest quality standards are met.

We reimagine the possibilities of urban farming. Experience the integration of nature and technology, where sustainable practices flourish, and the city becomes a thriving hub of agricultural innovation.

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Urban Farm BXModel



KeyHighlights

SUSTAINABILTY

Sustainability: At the heart of our concept is a commitment to sustainable practices. By implementing vertical strawberry farming on-site, we eliminate the need for conventional supply chains, reducing transportation costs and carbon footprint.

We prioritize resource effciency, composting organic waste, and utilizing eco-friendly packaging materials. Our goal is to promote a greener and more environmentally conscious approach to food production and consumption.

FARM to FORK EXPERIENCE

Farm-to-Table Experience: We believe in reconnecting people with the source of their food. Our urban farmhouse provides a unique farm-to-table experience where visitors can witness the growth and cultivation of strawberries right before their eyes. By offering self-produced strawberries, we ensure the freshest, most flavorful fruits reach our customers' plates. This direct connection to the farm fosters transparency, trust, and a deeper appreciation for the food we consume.

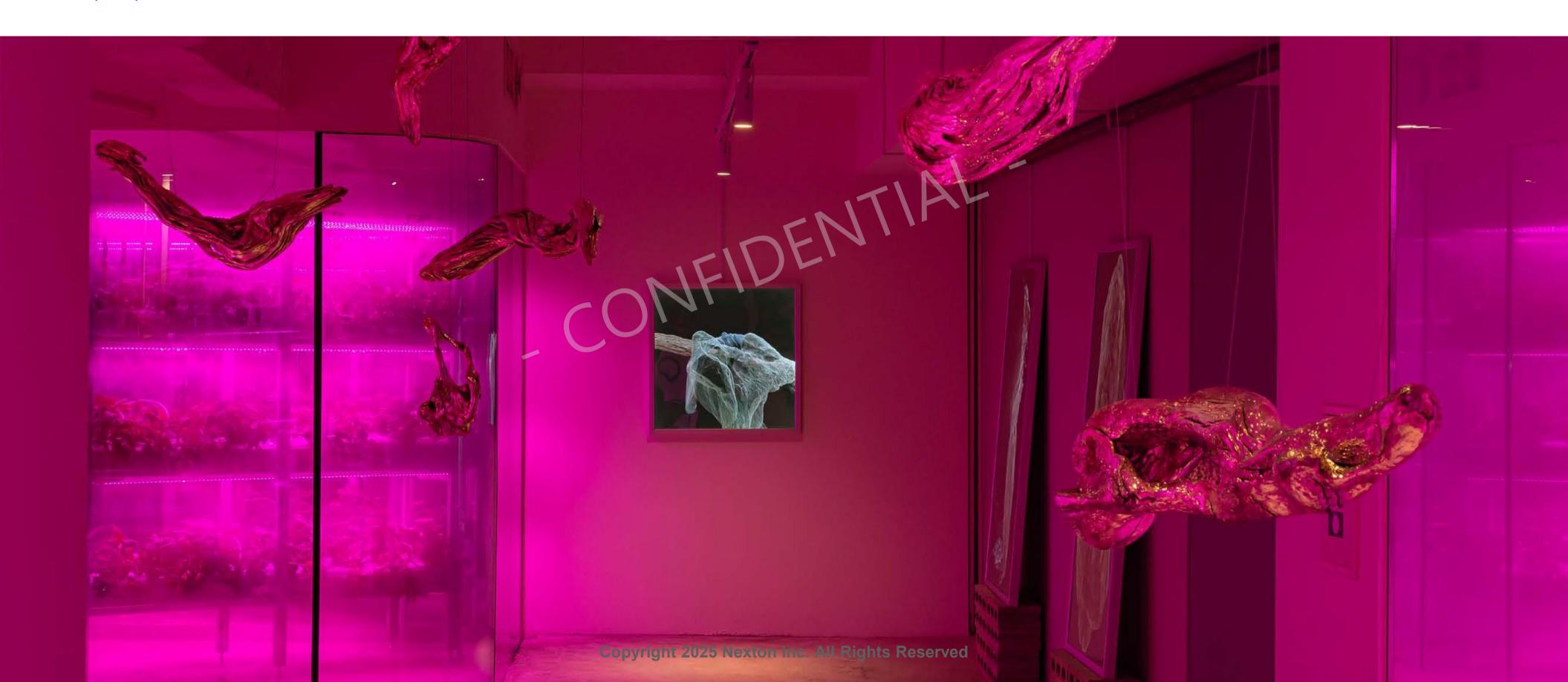
MAGICAL WONDERLAND Magical Wonderland: Step into a magical world as you enter our urban farmhouse. Drawing inspiration from the whimsical elements of "Alice in Wonderland," we create an enchanting atmosphere that sparks wonder and delight. The immersive ambiance transports guests to a surreal landscape where they can indulge in the captivating beauty of strawberries. Through imaginative design, sensory experiences, and themed events, we aim to create an unforgettable journey into the realm of berries.

Farm Experience



MADBERRY'Myeongdong 0909'

Farm, Art, Culture



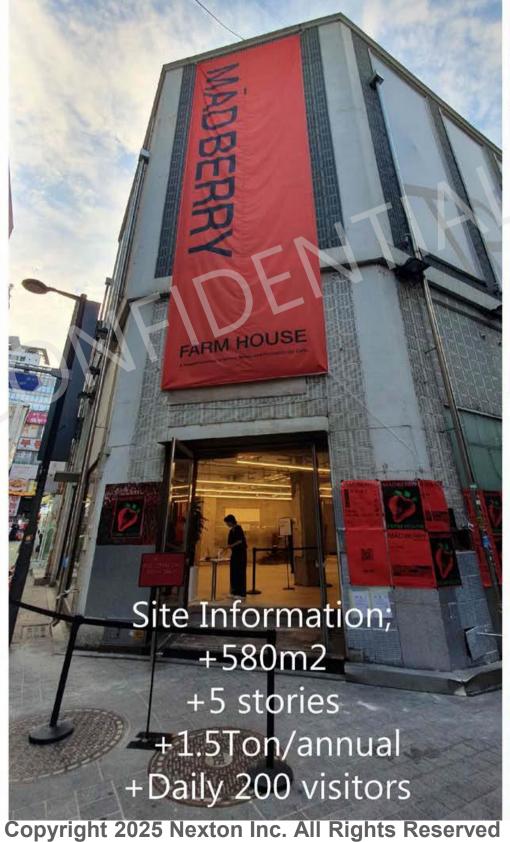
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MADBERRY'Myeongdong 0909'

Farm, Art, Culture













With a signficant increase in productivity, drastic reduction in facility costs and decrease in environmental impacts associated with long-distance transportation of food, Indoor farming methods are booming around the world. Indoor vertical farms create the perfect environment for plants to grow in optimal conditions, promoting their healthy development while simultaneously reducing the overall impact of climate change

NEXTON The Table

CEA brings optimal production of crops, ranging from leafy greens to high-value added fruits. We continously strive to provide a wide range of healthy and sustainable food crops categories to the table.



71 Leafy greens

- Caipira
- Crispiano
- Butterhead
- Isabel
- Kyona
- Arugula
- etc.



24 Herb plants

- Basil
- Dill
- Time
- Coriander
- Mint
- Chavil
- etc.



4 Flower Crops

- Oxalis Izumi
- Siemens
- Saffron
- etc.



4 Fruits Vegetables

- Strawberry
- Ongoing R&D:
- Tomato
- Pepper
- etc.



Functional Food Crops

- Low sugar & High calcium
 Salad
- Memory Enhancing Salad
- Low sugar & High Calcium Salad
- Skincare Dressing
- Salad
- etc.

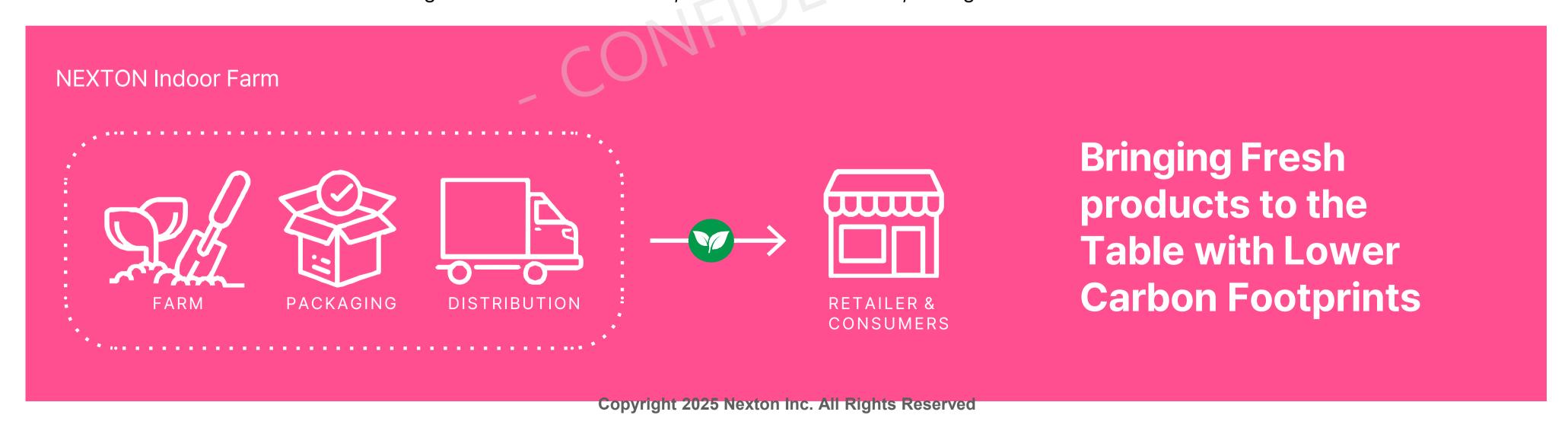
INDOOR FARM Distribution Network

Our innovative all-in-one supply chain delivers faster, fresher and healthier food crops than traditional distribution.

Conventional Farming

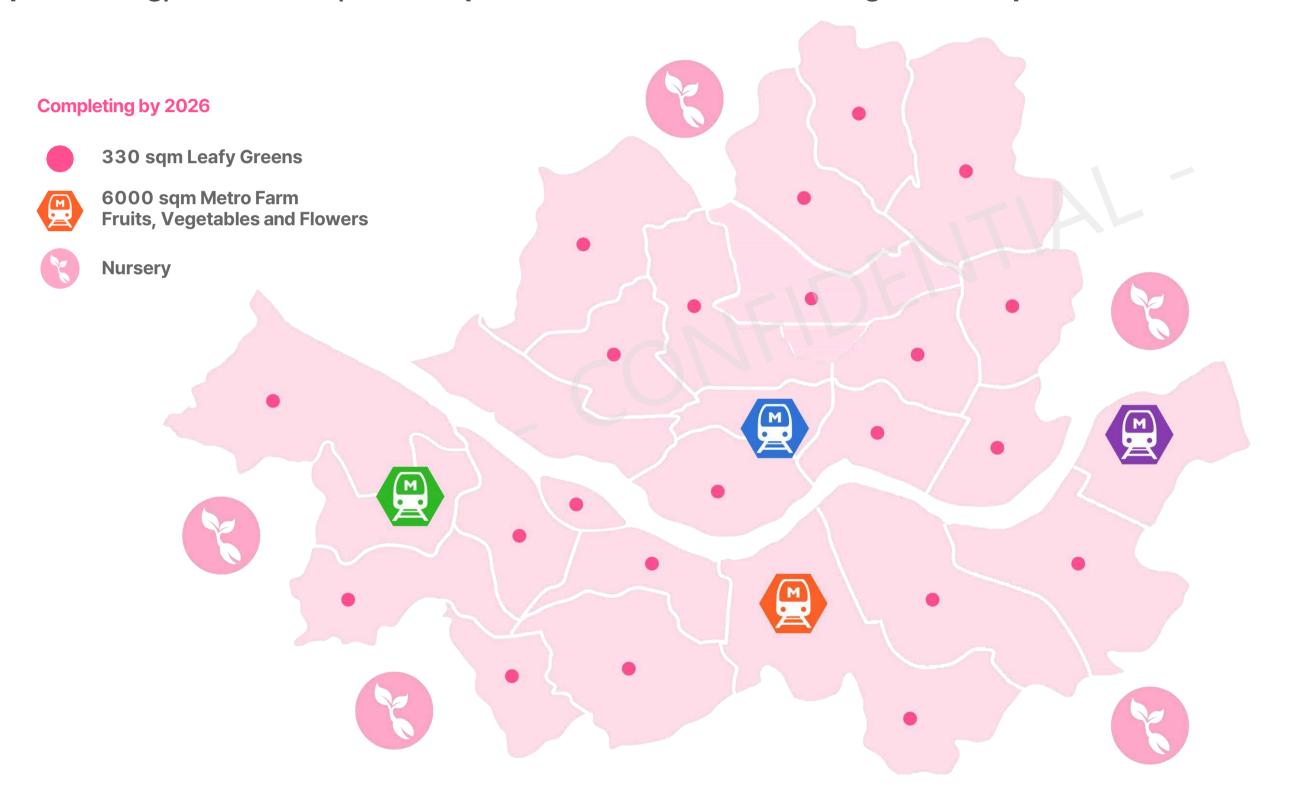


The more stages of distribution there are, the lower the Freshness, the higher the carbon emissions



NEXTON Urban Farm Platform

We actively pursue urban carbon-neutrality and present the Urban Farm Platform that integrates farming, processing, distribution, consumption and other contents of agricultural products.





Delivery distance will be within 2km radius. We all can make a table with the freshest ingredients.

Our New Brand





"Summer Strawberry? Insanely Good!"

Don't believe us? Go ahead, try it, European flavor with Japanese sweetness....Genius Nexton

Hana Kim-----N* Strawberry Review

THE HYUNDAI **DEPARTMENT STORE**

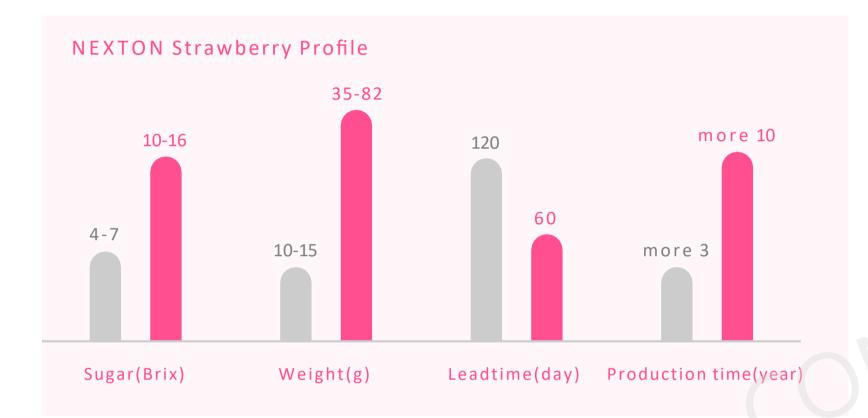


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Unit:\$/kg, Exchange Rate:\$/1,000won

Global No.1 Indoor Farm Strawberry

Nexton has successfully achieved the world's first mass production of low-temperature strawberries in indoor farm (130 tons annually).



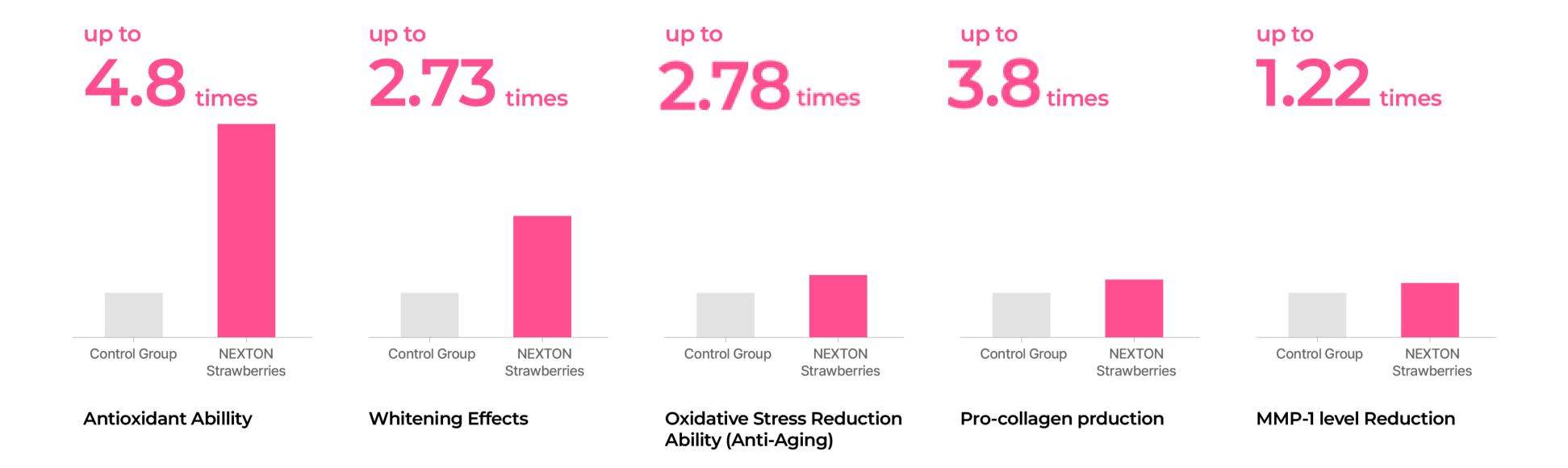
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Stp	Oct	Nov	Dec	Annual Average
2020	11.2	6.9	5.5	5.8	4.8	_	-	-	-	-	-	12.6	7.7
2021	9.9	7.8	5.9	5.2	4.9		A	II-Se	easo	n		16.0	8.1
2022	16.1	8.8	6.6	6.2	6.8		St	raw	ber	ry		14.6	9.5
2023	11.4	9.9	6.9	6.1	6.6	_	-	-	-	-	-	16.7	9.7
2024	14.0	12.3	8.5	6.9	6.7							19.1	10.6



Windows of Opportunities (Creating a Seller s Market)

Outperformance of NEXTON Strawberry's Efficiency

NEXTON Strawberry was confirmed to have excellent antioxidant properties, whitening effects, skin aging prevention, and skin wrinkle improvement effects compared to other companies' or other strawberry cultivars.



MADBERRY with SUM1S_(an eco-brand) Eco-Fashion Collaboration











NATURAL PRODUCT RESEAROF

We are developing cultivation practices for crops that are rich in functional ingredients by utilizing our system to control various environmental factors, including light wavelength, temperature, humidity, and fertigation and more. This allows us to harvest environmentally-friendly vegetables that are abundant in nutrients and flavors, while ensuring consistent quality throughout the year. Through instrumental analysis like HPLC, LC-MS, we explore functional ingredients, develop new active compounds, and conduct research on crops that encompass diverse bioactive metabolites. As a result, these crops hold significant value as raw materials in the nutraceutical and functional cosmetics industries.

Phytochemicals

Development of New Materials

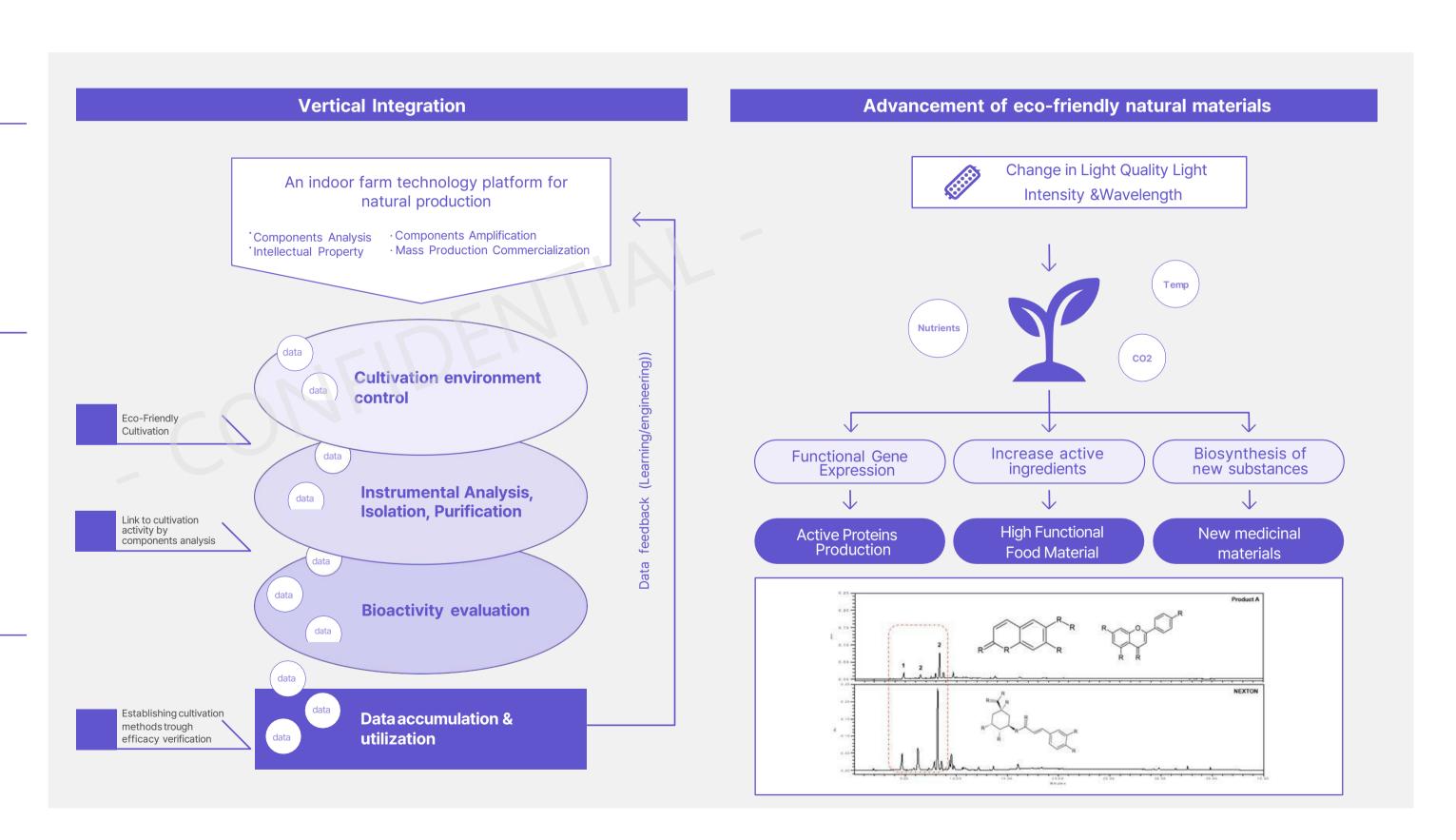
- Preparatory literature review
- Expression and amplification of functional ingredients
- Ensuring material safety

Extraction-Analysis-Isolation-Purification

- Development of Sample Pre-treatment Methods
- Purification and Structural Elucidation of Compounds
- Investigation of Material Utilization Approaches
- Evaluation of biological activity(anti-obesity, skin whitening, eye health and etc.)
- Networking with universities and institutions (KIST and Jeonbuk National Univ.)
- Development of functional ingredients for food,

Patenting and Commercialization of the Material

- Evaluation of biological activity(anti-obesity, skin whitening, eye health and etc.)
- Networking with universities and institutions (KIST and Jeonbuk National Univ.)
- Development of functional ingredients for food, pharmaceuticals, and cosmetics

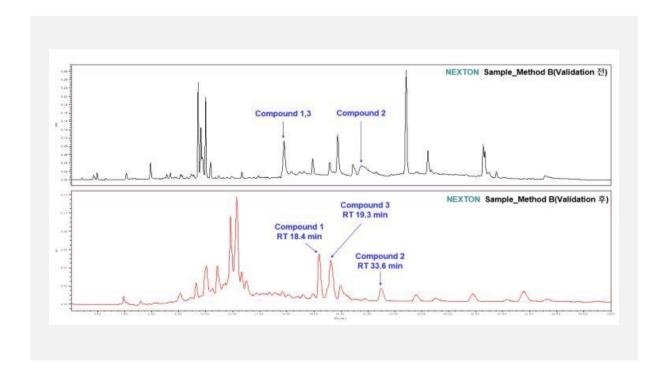


NEXTON Bio Laboratory

1. Natural product chemistry

Strategies for Phytochemical Material Development

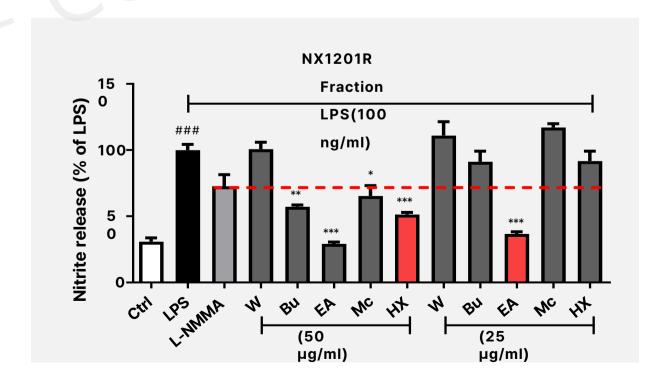
- Internal quality check and explore new functional substance candidates
- Extract-Isolate-Purify-Identify structure the functional substances in crops
- Research components-functional mechanism to enhance the value of crops
- Develop techniques to extract/seperate/purify effective components of medical and industrial cannabis



2. Bioactive substances

Strategies for Patenting and Commercializing Phytochemical Materials

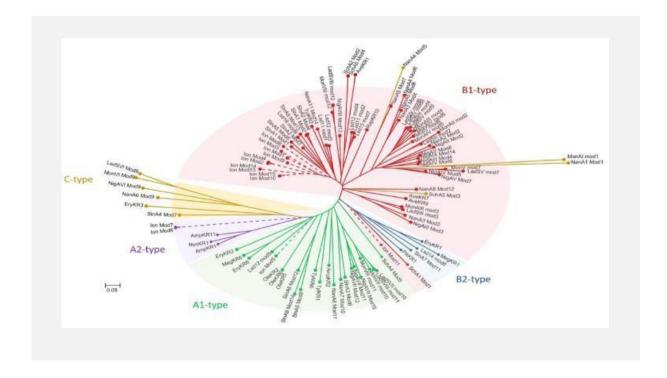
- Screening of functional natural materials for obesity, whitening, eye-health, anti-inflammatory, and more
 Explore bioactive mechanism through cell and
 - molecular biological analysis
 Substantiate the safety and stability of materials
- Propose plans to acquire intellectual property rights for food, pharmaceutical, and cosmetic materials



3. Application of Microbes

Develop high-value products using Microbial Metabolic Engineering

- Isolate and identify valuable microbes/ Discover new microbes species
- Develop new functional foods/cosmetic components through fermentation process
- Enhancing utility value of existing product line-up
- Discover natural antimicrobial substances





NEXTON Business Roadmap

2020~2023

2024 ~ 2026

2027~

Korea's Top AG TECH Company Annual Rev.: 10B KRW

- Commence overseas business in full scale
- Initiate Urban Farm Platform
- Open World's Largest Strawberry indoor Farm

Global AG TECH Company

Annual Rev.: 300B KRW

- Expand to GCC, South-East Asia,
- North American Regions
- Establish Urban Farm Complex globally

Unicorn Company

Annual Rev.: 1T KRW

- 42 domestic urban farms
- 10 Overseas Joint Ventures
- International R&D Centers(Canada/US)

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NEXTON Global Business

Canda

MOU with IAC for AI R&D Center, Alberta



USA

MOU for LA Urban Farm

Middle East GCC 6 Countries

GCC

October, 2022, MOA to establish NEXTON-MAWARID Joint Venture (NEXTON MENA) Plan to build 16 indoor farms (7,933 m², US\$ 27 M each) in GCC, amount to US\$ 400 M May, 2023, established NEXTON MENA Co.

Singapore

Established JV, NEXTON ASIA for Local Urban Strawberry Indoor Farm (US\$ 5M)

China

Progressing JV with China No.1 Automation Company

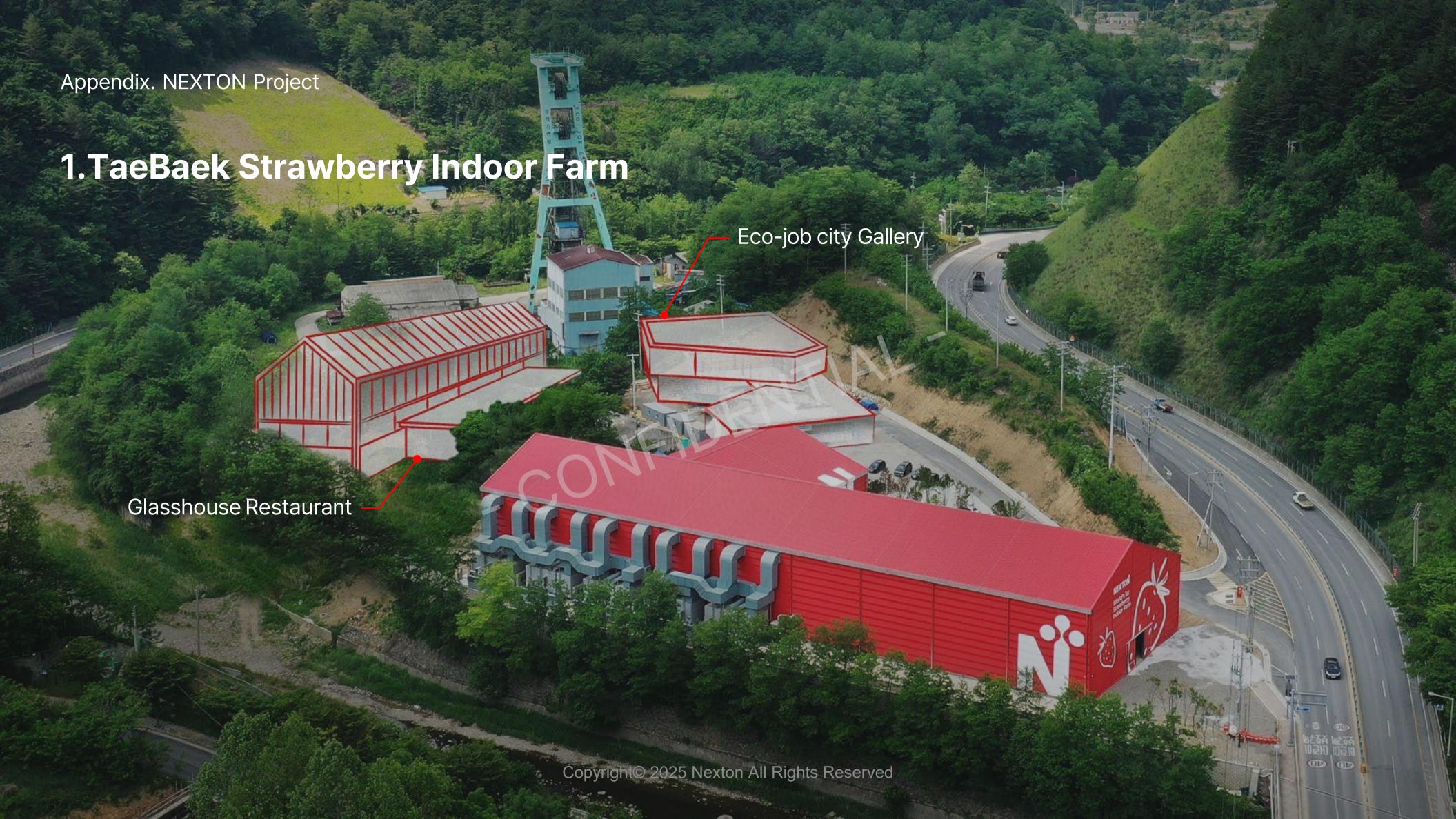
Thailand, Vietnam, Indonesia

Partnering with major Korean B2B companies to supply QVIX_R(Strawberry) facilities and own production hub

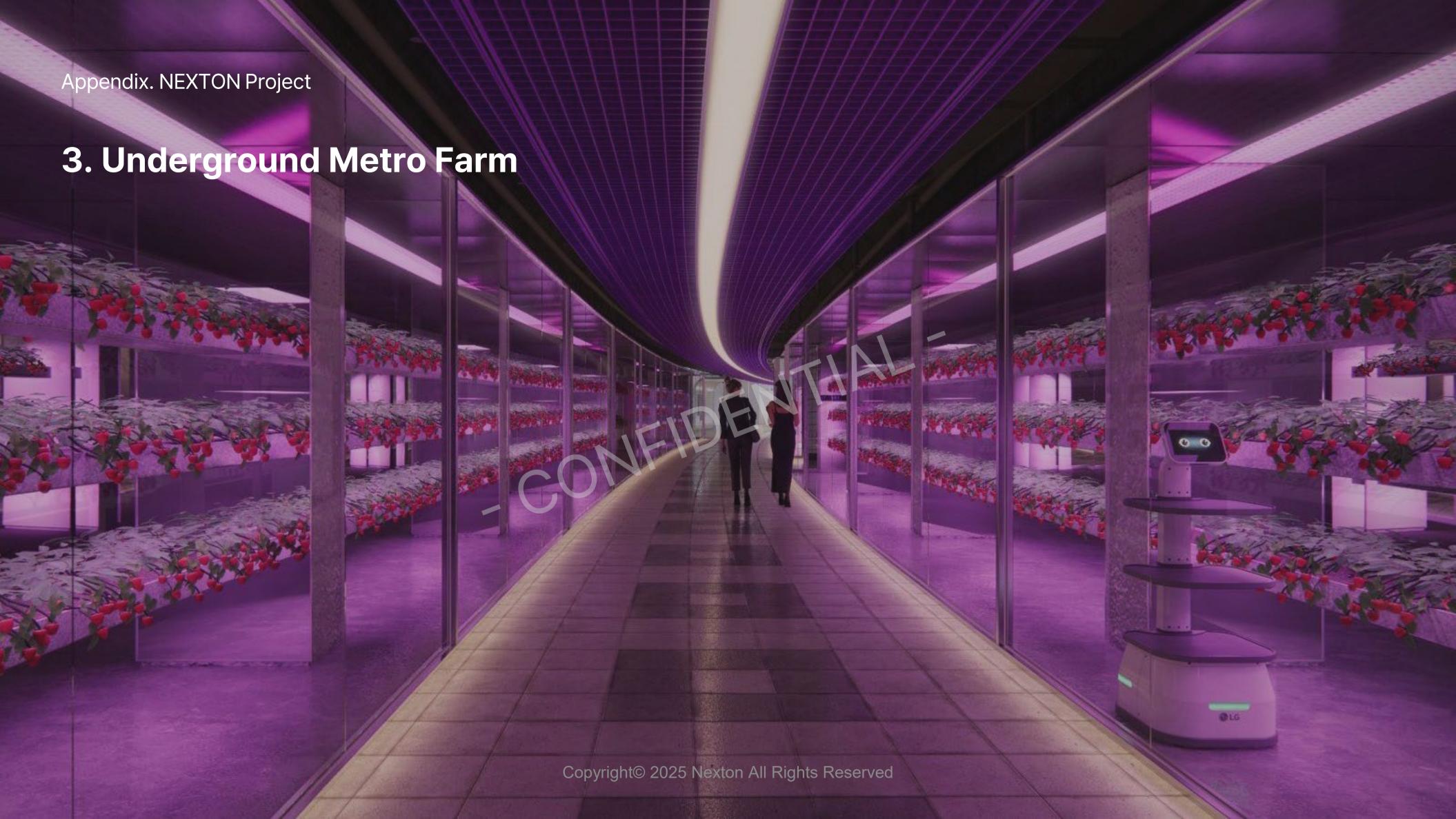


Appendix 1.

NEXTON's Projects









Appendix.

NEXTON: World No. 1 in Indoor Farm Patents

Rank	Company	Utility #	Design#	Trademarks
1	NEXTON(Rep. of Korea)	59	1	3
2	Indigo Agriculture (US)	17	0	4
3	AeroFarms (US)	14	0	2
4	InFarm-Indoor Urban Farming GmBH (Germany)	10	1	9
5	Plenty Company, LLC (US)	9	0	2
6	Vertical Future (UK)	2	0	0
Unranked	Farm8 (Rep. of Korea)	3	0	18

[http://www.kipris.or.kr/khome/main.jsp]



