



언제 어디서나 누구나 쉽고 간편하게

■ PC·스마트폰 관리하면 Farm Link PC·Mobile Web

- \* IoT 기반의 실시간 원격 업데이트
- \* 컴퓨터 및 스마트폰에서 사용 가능한 시스템
- \* 이해가 쉽고 사용이 편리한 화면구성

켜고, 연결하고, 움직이는 모든 동작을 관리하는 네트워크 관리 시스템

■ 네트워크 컨트롤러 \_ Network Controller

- \* 농장 네트워크와 전체 시스템을 관리하는 게이트웨이
- \* 유무선 통신 시스템 내장
- \* 원격, 자동 수동 조작이 가능한 컨트롤 시스템



동별 구역별 제어가 가능한 분산처리 컨트롤 시스템

■ 무선 구동기 컨트롤러 \_ Wireless Actuator Controller

- \* 모터 등 구동장치와 연결되어 각 하우스 동별 관리
- \* 측창, 보온덮개, 관비, 천창, 유동팬 등 제어
- \* 각 하우스 모터별·동별 개별 제어 가능
- \* 원격, 자동·수동 조작이 가능한 컨트롤 시스템



배터리로 동작하는 무선 복합센서

■ 무선 센서노드 \_ Wireless Sensor Node

- \* 환경센서(온습도, 조도) 일체형 노드
- \* 1km 이상의 거리에서도 안정적인 통신 지원
- \* AA배터리 4개로 2년 동작
- \* Co2, EC센서 등 모든 타사센서 적용가능



FARM LINK Mobile Web \_ 모바일 앱 하이브리드 클라우드(Hybrid Cloud)서비스

## 시설원에 재배 이제, 스마트폰 하나면 끝!

평생 여행 한번 편하게 못 가고 남에게 맡겨둘 수 없었던 농사일, 이제 걱정없이 여행도 가고 여행지에서도 집에서 처럼 일한다.

스마트폰으로 시설하우스의 온도·습도 등을 확인할 수 있고, 자동개폐 및 CCTV실시간 확인이 가능하여 언제 어디서나 농작물의 상태를 확인하고 관리할 수 있습니다.

유비엔 스마트팜 - 팜링크! 하나면 다 됩니다.

### 유비엔 미래형 스마트팜 시스템 \_ 팜링크

(주)유비엔은 농업의 스마트화를 위한 지속적인 투자와 개발을 통해 농업의 노동 효율성을 높이고, 농민들의 삶의 질 향상에 기여할 수 있는 혁신적인 미래형 첨단 신제품 스마트팜 시스템 팜링크를 개발하였습니다.



■ 무선 구동기 컨트롤러  
Wireless Actuator Controller

■ 네트워크 컨트롤러  
Network Controller

■ 무선 스위치 노드  
Wireless Switch Node

■ 무선 센서 노드  
Wireless Sensor Node

# Smart Farm

Cloud Smart Farm Platform on IoT

FARM LINK Mobile Web \_ 모바일 앱 하이브리드 클라우드(Hybrid Cloud)서비스  
특허등록: 농수축산 시설 자동화용 분산 네트워크 시스템 제 10-1739066 호



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IoT 기반의 클라우드  
스마트팜 플랫폼  
팜링크



ubn (주) 유비엔  
Technology to Connect Value

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ubn (주) 유비엔  
Technology to Connect Value





# 스마트 농업 세상을 열어가는 - 유비엔

유비엔의 시작은 농업의 미래를 위한 투자에서 시작되었습니다. 유비엔은 10여년간 농업의 과학화를 넘어 농업이 편리하고 농민이 행복해지는 첨단 ICT기술을 융합한 스마트팜 혁신 시스템 구축에 최선을 다 해 왔습니다.

## 유비엔 스마트팜시스템 개발 및 보급

10년의 농업 ICT 연구, 5년 간의 스마트 팜 개발, 4년의 실증을 바탕으로 개발된 "한국형 스마트팜"

국내 최초 "분산처리형 단동형 스마트팜 상용화"

## 유비엔 스마트팜시스템 개발 및 보급 관련 사진

### ■ 도입농가 설치 사진



▲ 네트워크 컨트롤러 ▲ 무선 구동기 컨트롤러 ▲ 무선센서노드

### ■ 도입농가 현황



▲ 성주첨외시설하우스 현장 ▲ 스마트팜 시설하우스 교육 및 시연 ▲ 일본 아이치현 국화농장 보급

### ■ 국제 행사 및 국내외 전시회 참가



▲ 캐나다 원예박람회 참가(2015.09) ▲ 일본 국제 원예박람회 참가(2017.10) ▲ 동남아 무역사절단(2018.03) ▲ 한국생물환경조절학회 발표(2018.04)

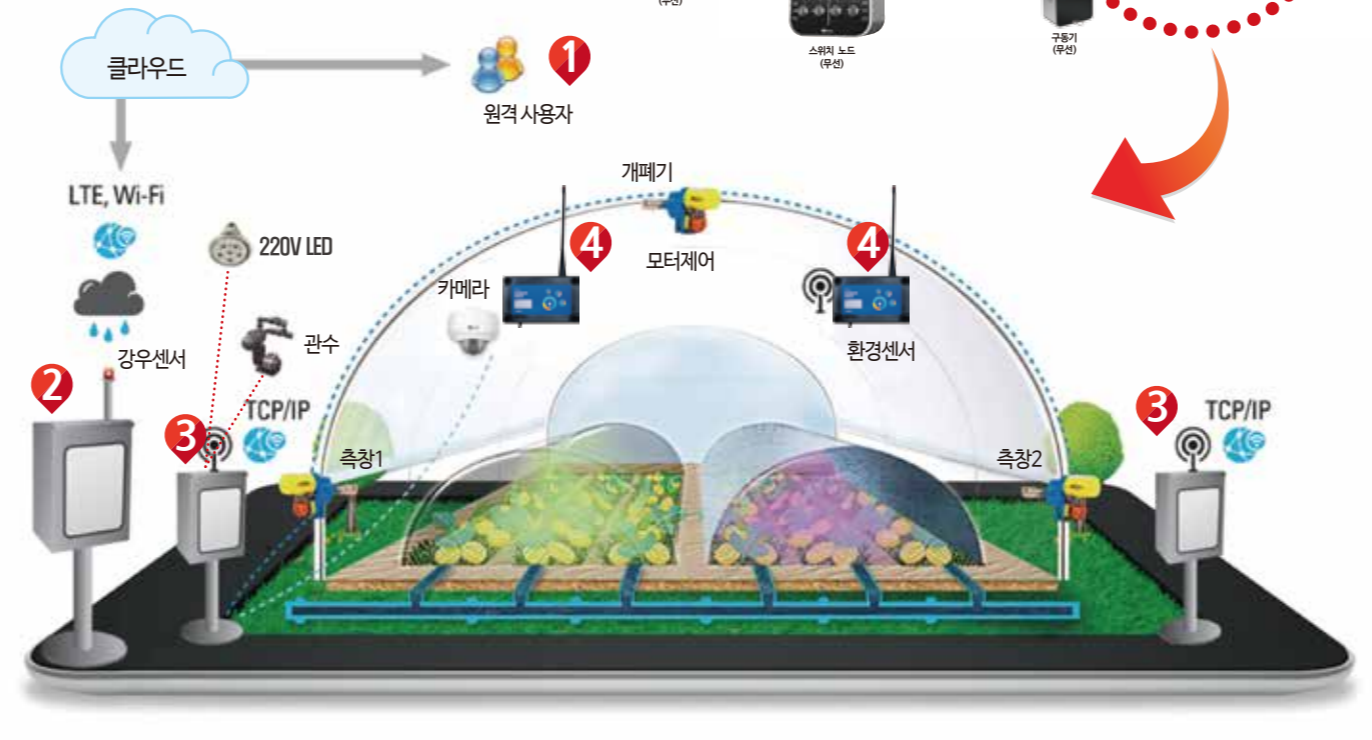


단동형·연동형 등 다양한 시설하우스에서도 복합환경제어와 관수·관비 조절이 가능한 한국형 스마트팜 시스템  
 특허등록: 농수축산 시설 자동화용 분산 네트워크 시스템 제 10-1739066 호

# 비용은 낮고!, 기능은 많고!, 성능은 최대!

## 유비엔 스마트팜시스템 팜링크 시스템구성

- 1 농가 맞춤형 스마트 서비스
- 2 네트워크 컨트롤러(Network Controller)
- 3 무선 구동기 컨트롤러(Wireless Actuator Controller)
- 4 무선 센서노드(Wireless Sensor Node)



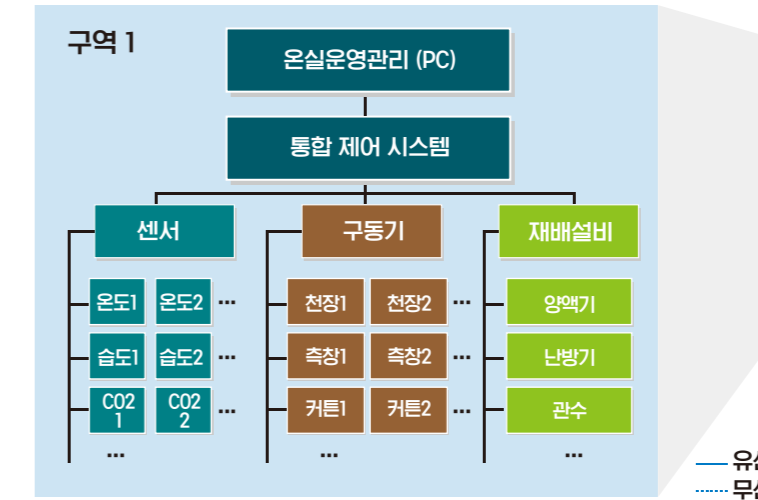
시스템의 무한확장이 가능한  
**"국내 최초의 분산처리형 클라우드 스마트팜"**

하우스내 모든 기기를 하나로 관리하는 일체형 시스템

# 유비엔 스마트팜시스템 - 팜링크

Smart Farm Hybrid Cloud, Internet of Things Systems

## As-Is (기존 모델) 중앙처리방식



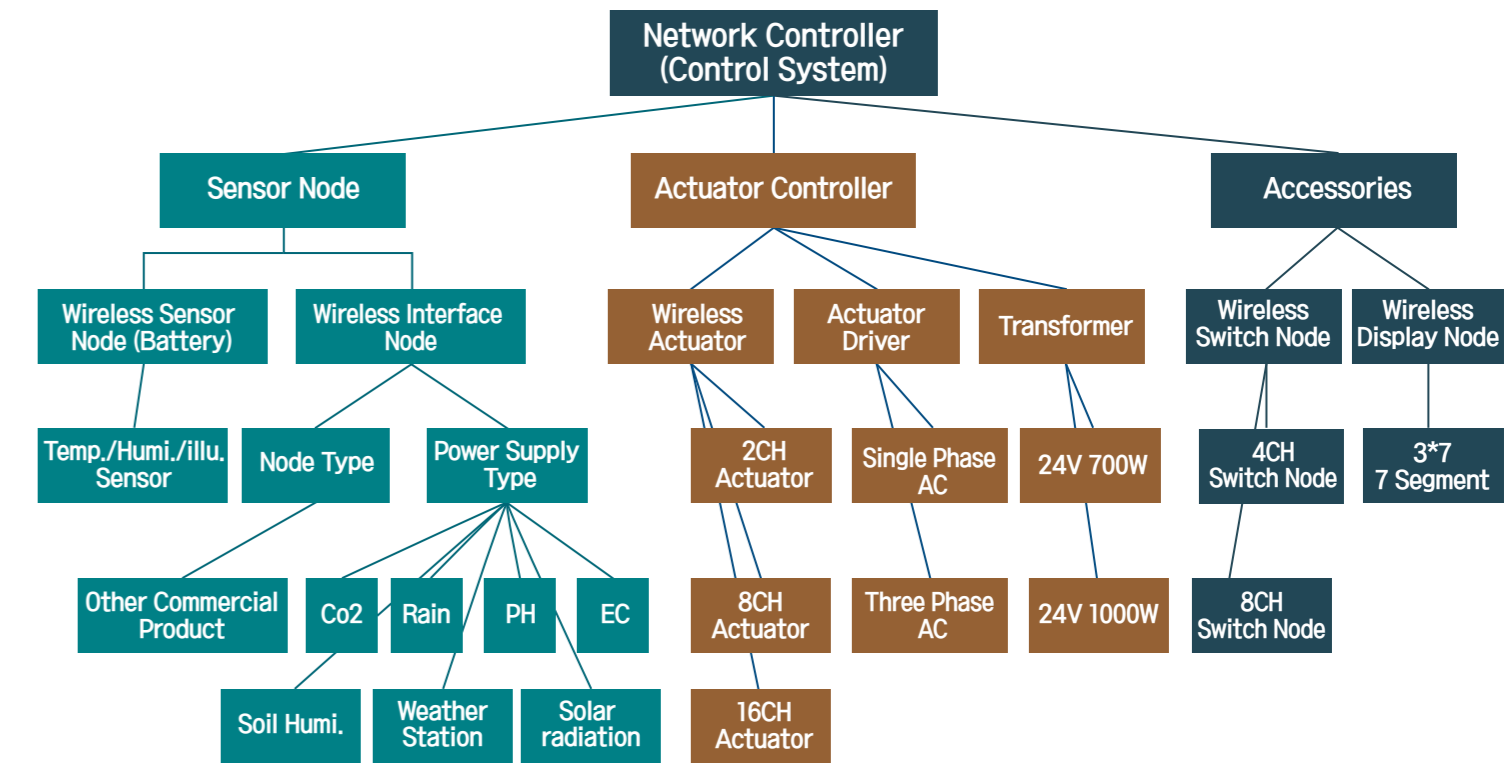
대량생산 중앙처리/제어 고정설비

## To-Be (UBN 팜링크 모델) 분산처리방식



맞출생산 분산처리/제어 유연설비

## UBN 팜링크 제품군 - 모듈형







Anytime, anywhere, everyone can use it easy and simple

■ PC·Smart phone management screen  
Farm Link PC·Mobile Web

- \* The system available on computers and smart phones
- \* It is composed of easy-to-understand and easy-to-use screens
- \* Real-time remote upgrade based on internet

Everything that turns on, moves, and connects is managed with one  
**Combined Management System**

■ Network Controller

- \* Manage the entire system and wireless network
- \* Manage the distributed processing system and scheduling
- \* Built-in wired and wireless internet system
- \* Gateway function



Farm Link Mobile Web  
Hybrid Cloud Service

Distributed Processing, Cloud  
**Smart Farm System for Greenhouse**

Greenhouse cultivation everything is solved with smartphone!

Farming work does not allow you to go on a trip in your lifetime and not depend on others, now you can travel without worry and work like at home on a trip.

Temperature and humidity of the facility house (greenhouse) can be checked with a smartphone, and real-time monitoring is possible through automatic opening and closing and CCTV which allows to check and manage the status of crops anytime and anywhere.

Everything will be done with  
**UBN (Ubiquitous Business Networks) Smart Farm - Farm Link!**

**UBN Smart Farm System - Farm Link**

UBN Corporation has developed an innovative future-oriented cutting-edge Smart Farm System Farm Link to increase labor efficiency of agriculture through continuous investment and development for agriculture's smartization and contribute to improving the quality of farmers.



■ Wireless Actuator Controller   ■ Network Controller   ■ Wireless Switch Node   ■ Wireless Sensor Node



Wireless environmental sensor

■ Sensor Nodes

- \* Expandable Wireless-environmental sensors (temperature, humidity, illuminance, soil temperature, soil humidity, Co2) integrated nodes
- \* Camera for indoor shooting in greenhouse, real time cultivation management
- \* Wired and wireless communication support



It is possible to control by each greenhouse, compartment  
**Distributed Processing Control System**

■ Actuator Controller

- \* Since it is connected with the driving device and motor, it can be managed by each house
- \* Control the side window, lagging cover, fertigation, sky window and flow fan
- \* Individual control by each greenhouse motor and greenhouse is possible
- \* Remote, automatic, manual control system

**Smart Farm**

Cloud Smart Farm Platform on IoT  
Farm Link Mobile Web - Mobile APP (Hybrid Cloud) Service  
Patent registration : Distributed network system for automating agriculture, fishery, and livestock facilities 10-1739066



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IoT Platform for Agriculture  
Distributed Processing Cloud Smart Farm



**ubn**  
Technology to Connect Value  
**UBN Corporation**

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**ubn** Technology to Connect Value  
**UBN Corporation**



# UBN opens the world of smart agriculture.

UBN began with an investment in the future of agriculture. UBN has been doing its best to build a Smart Farm innovation system that combines advanced ICT technology which makes convenient farming and happiness for farmers beyond the agricultural scientification for about a decade.

## UBN Smart Farm System development and distribution

10 years of agricultural ICT research, 5 years of Smart Farm development, "Smart Farm"

Commercialization of the first "distributed processing single Smart Farm" in domestic

## UBN Smart Farm System development and photos related to distribution

### Installation site



▲ Network Controller      ▲ Wireless Actuator Controller      ▲ Wireless Sensor Nodes

### Installation farmhouse



▲ Seongju oriental melon greenhouse      ▲ Training and demonstration for Smart Farm, Korea      ▲ Aichi Prefecture, Japan, Chrysanthemum Farm Supply

### International event & Exhibition



▲ Canadian Horticulture Fair (2015.09)      ▲ Japan International Horticultural Fair (2017.10)      ▲ Southeast Asian Trade Mission (2018.03)      ▲ Korea-Central Asia Cooperation Forum (2018.04)



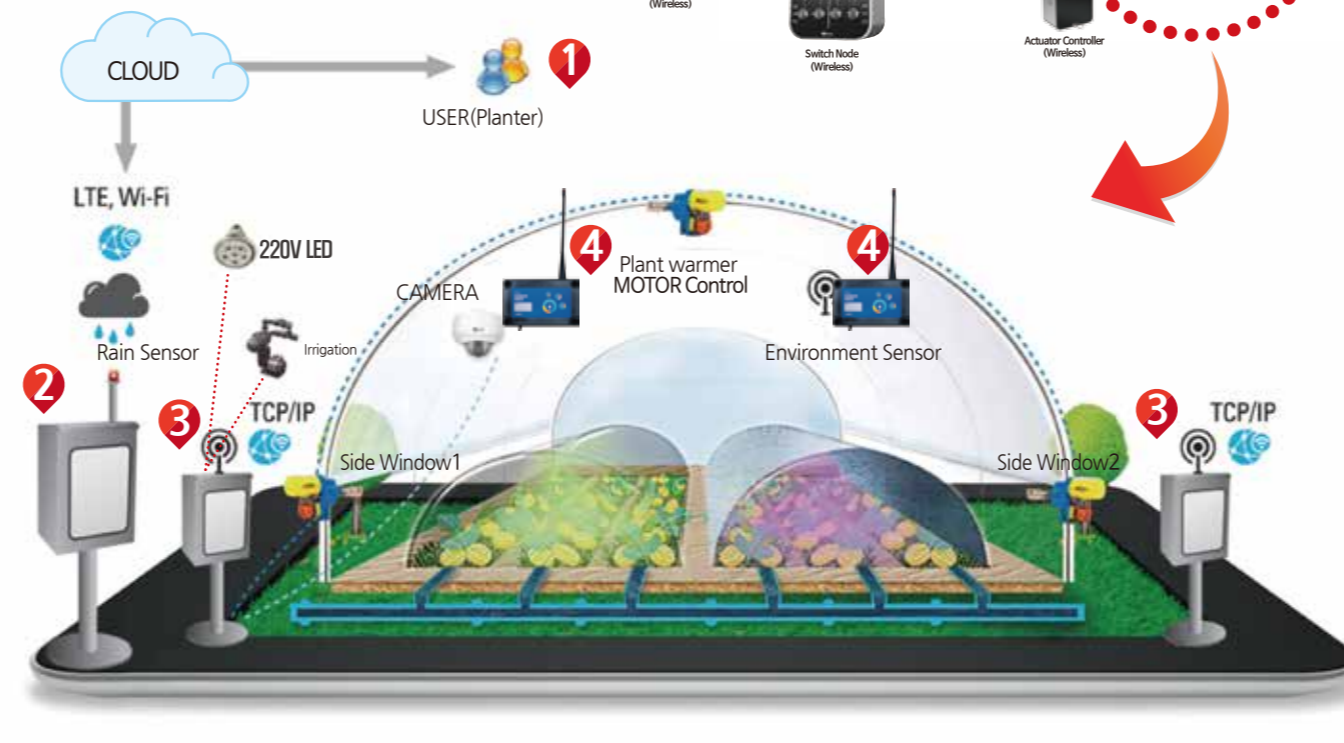
Smart Farm System enables to control complex environment in the various greenhouses.

Patent registration : 10-1739066  
Distributed network system for automatizing agriculture, fishery, and livestock facilities

Cost is **LOW**, functionality is **HIGH**, performance is **MAXIMUM**

## UBN SMART FARM SYSTEM Farm Link system configuration

- 1 Farm Link mobile Smart Web Service
- 2 Network Controller
- 3 Actuator Controller (Wireless)
- 4 Sensor Nodes (Wireless)



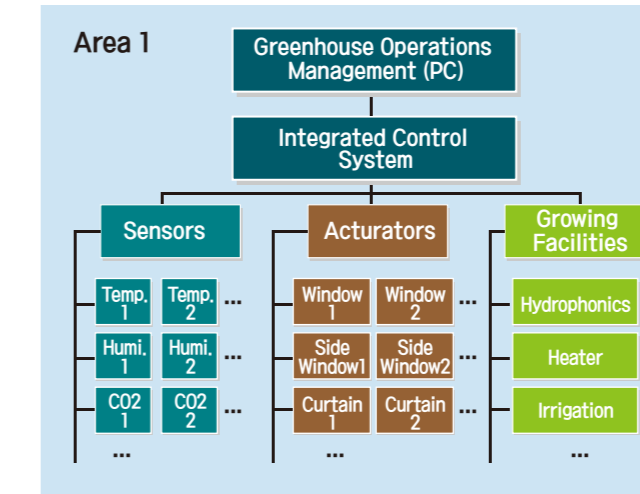
"Distributed Processing Cloud Smart Farm System" enables unlimited expansion of the system.

All-in-one system that allows to manage all the equipments in the greenhouse

# UBN Smart Farm System - Farm Link

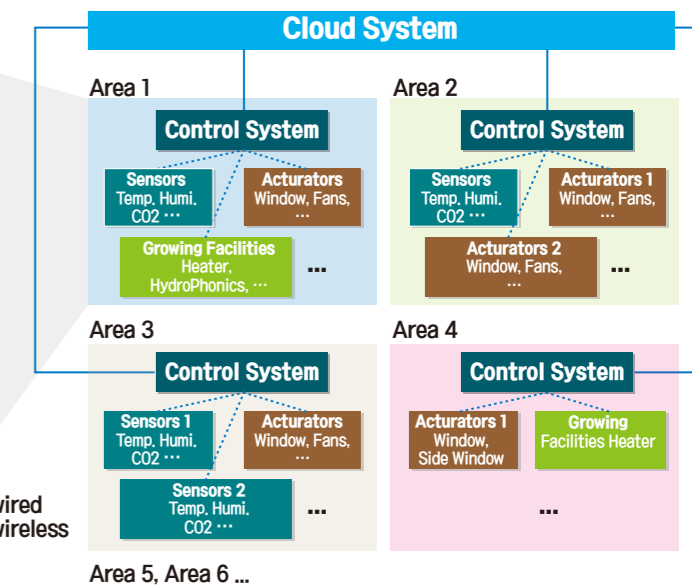
Smart Farm Hybrid Cloud, Internet of Things Systems

## As-Is (Legacy Model) Batch processing method



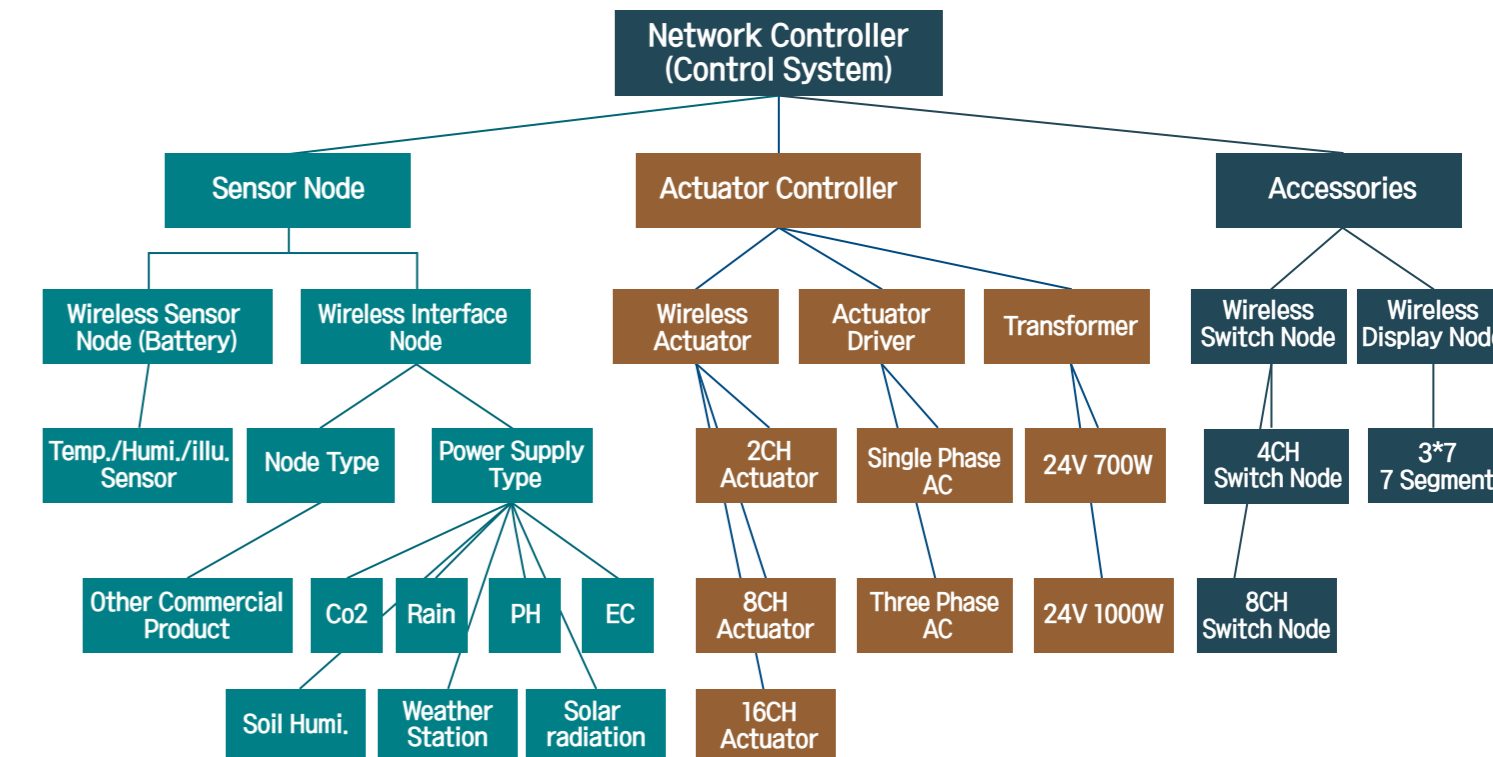
Mass Production  
Central control  
Fixed facility

## To-Be (UBN Farm Link Model) Distributed processing method



Personalized Production  
Distributed control  
Flexible facility

## UBN Product List Tree - Modular Type





IoT Platform for Agriculture

# FarmLink



## SmartFarm based on Cloud

- Creating Connections from primary industries to high value-added industries
- IoT-based modular distributed processing Cloud Smart Farm with easy configuration and extension

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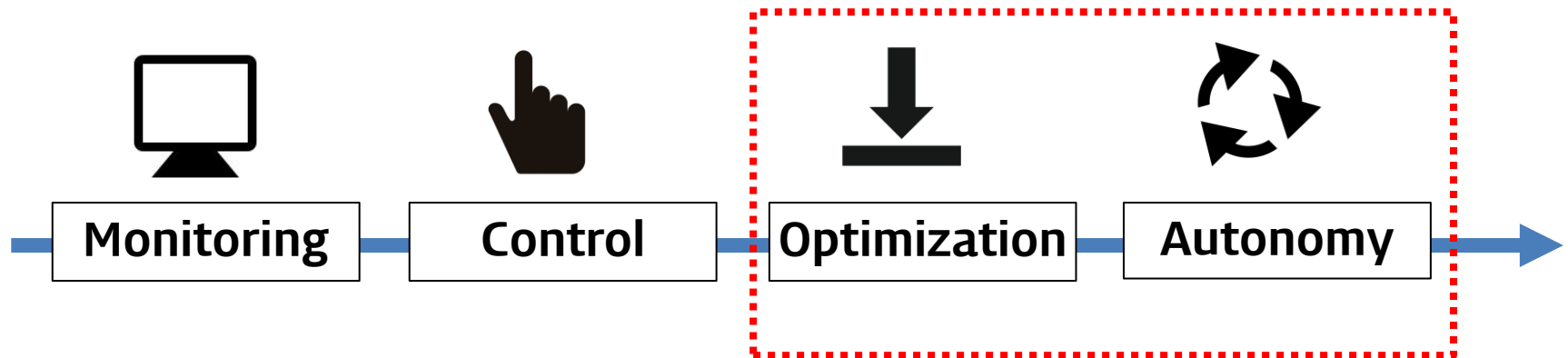


UBN Corporation



# Why Smart Farm ?

“**Data agriculture** based on Agriculture IoT and Big data is the key to success”



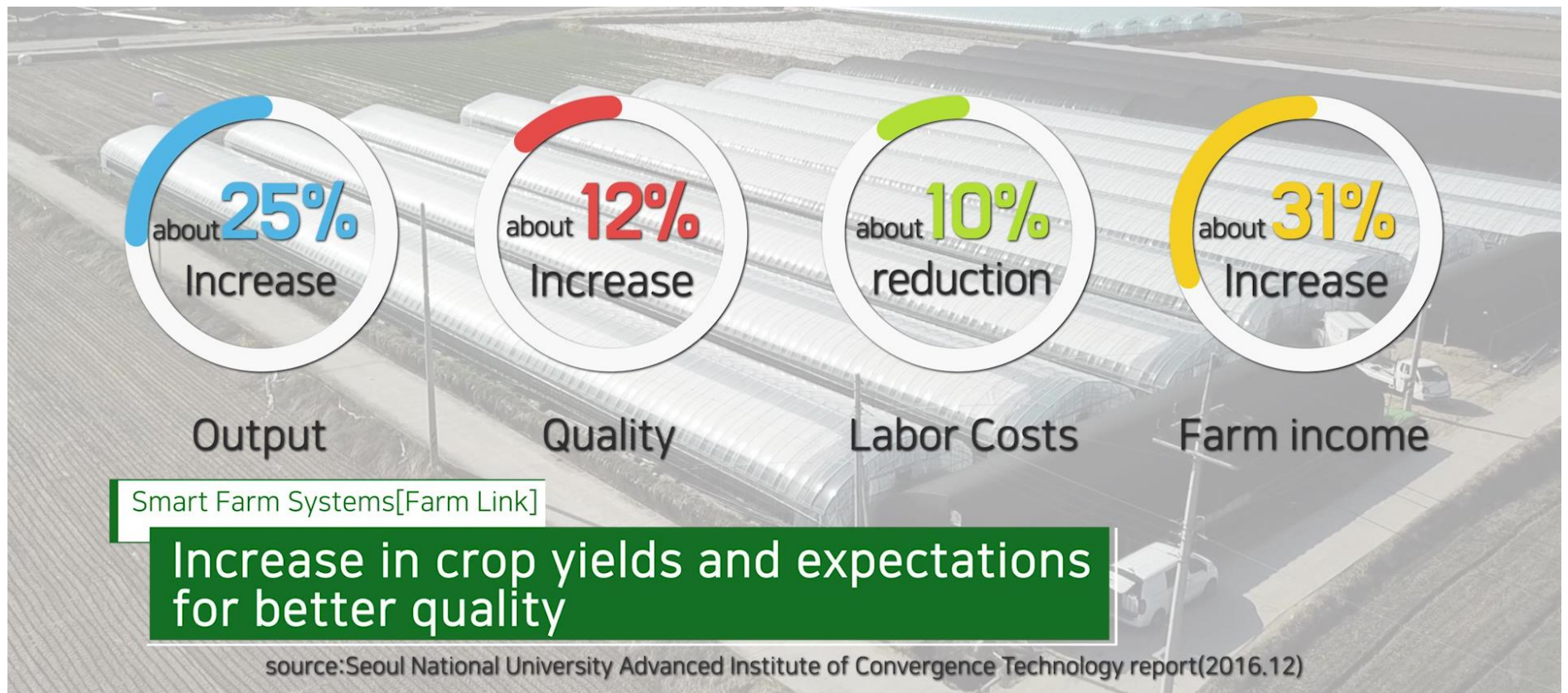
IoT 4-stage development model (Prof. Michael E. Porter)

“**Optimization and autonomy** through Smart Farm is the key solution”



# Advantages of SmartFarm System

## “Output/Quality/Costs/Income Change”





# Smart Farm satisfying on-site demands

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“Glass greenhouse, MultiSpan greenhouse, SingleSpan greenhouse **Various Greenhouses**”

**Multiple Span Green House**

- Large scale, precision control, high cost

**Single Span Green House**

- Small, non-precision, low cost



Complex Environment Control Type





# UBN's innovative Smart Farm Solution

## “SmartFarm service based on IoT-Cloud”

- The first commercialized modular distributed processing cloud smart farm in Korea-

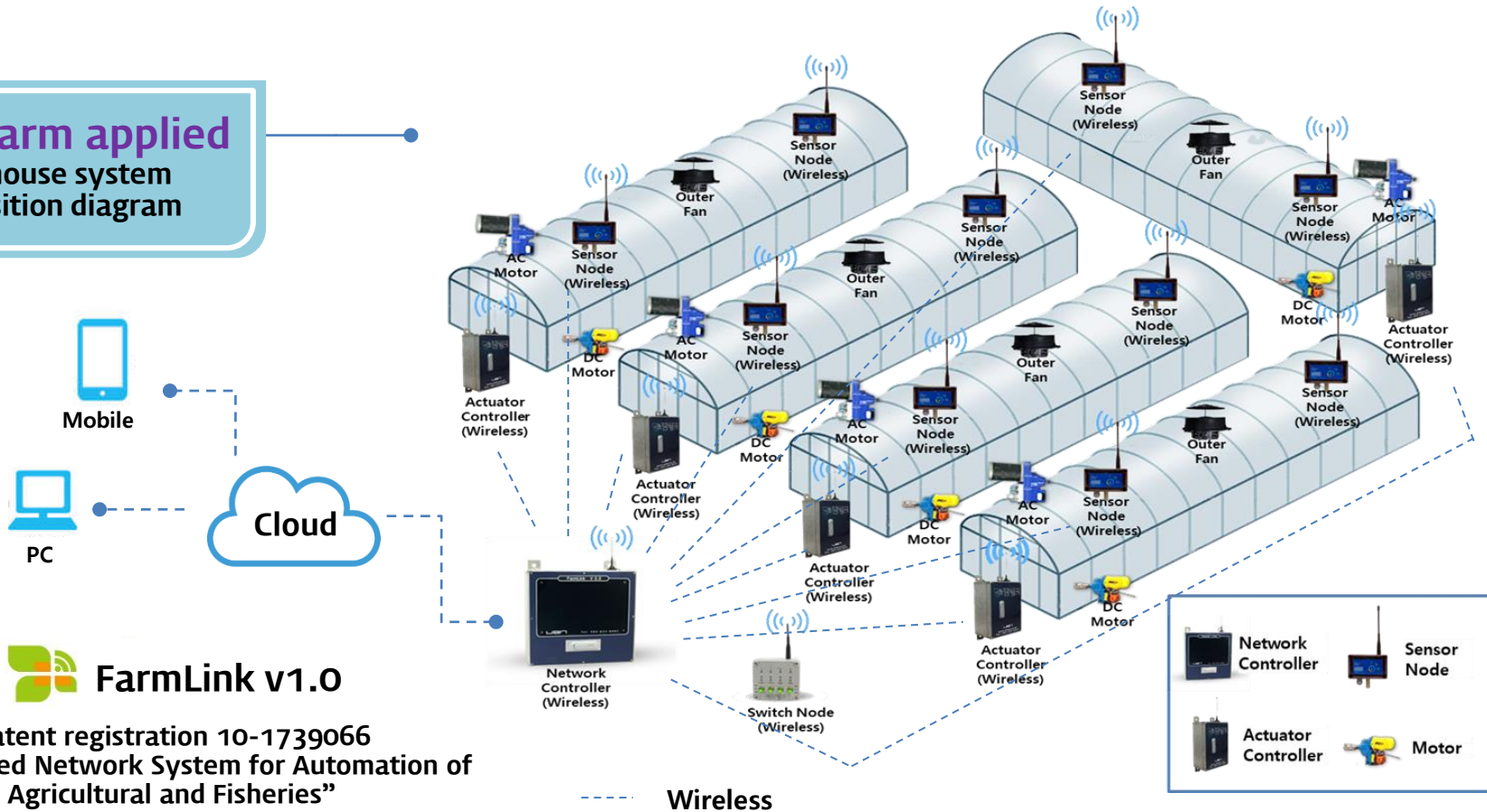




# UBN Smart Farm Solution is Connected Farm

“Distributed Processing Smart Farms connected to the network 24 hours”

Smart Farm applied  
Greenhouse system  
Composition diagram



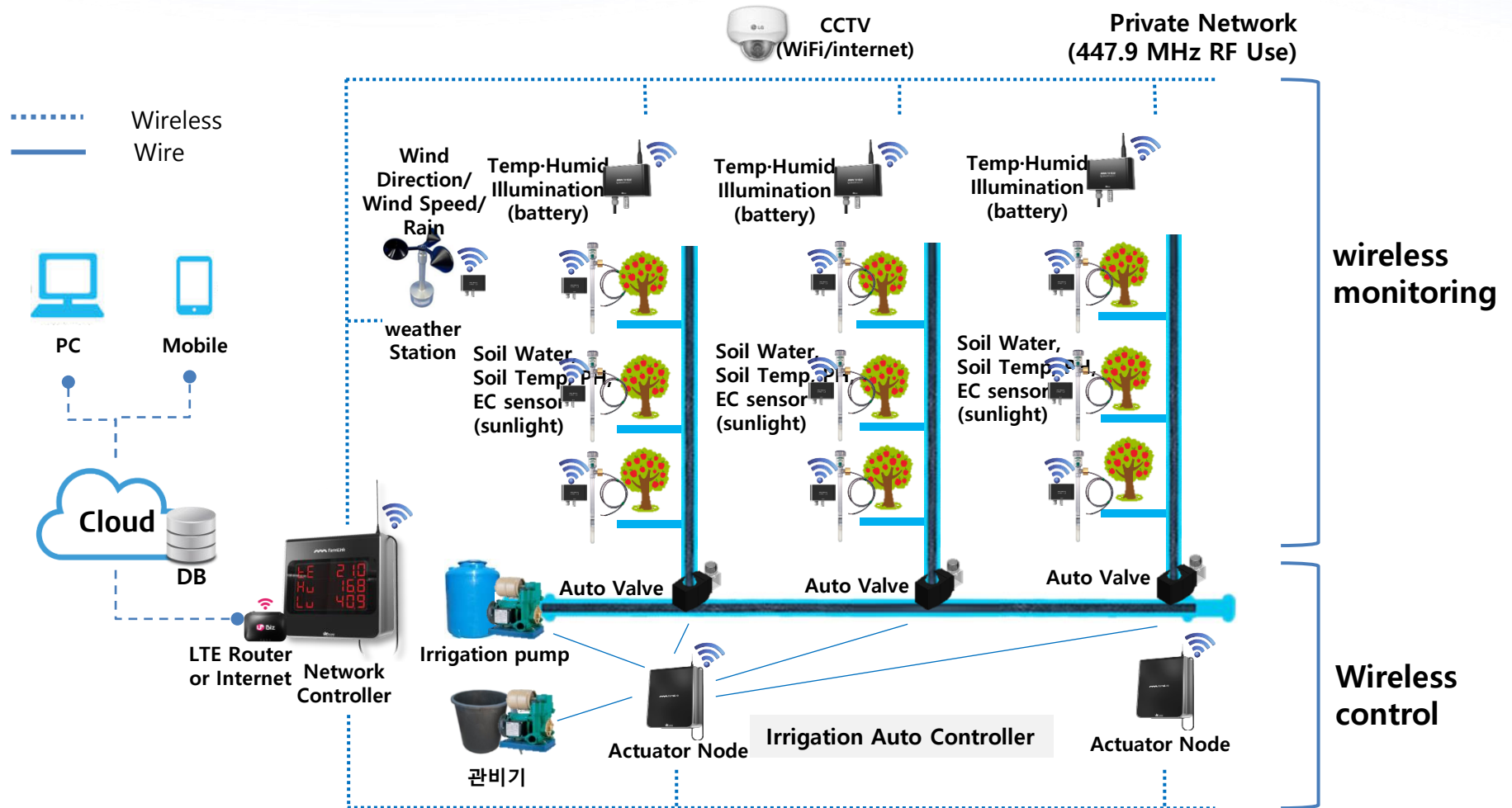
 **FarmLink v1.0**

Patent registration 10-1739066  
“Distributed Network System for Automation of  
Agricultural and Fisheries”

--- Wireless



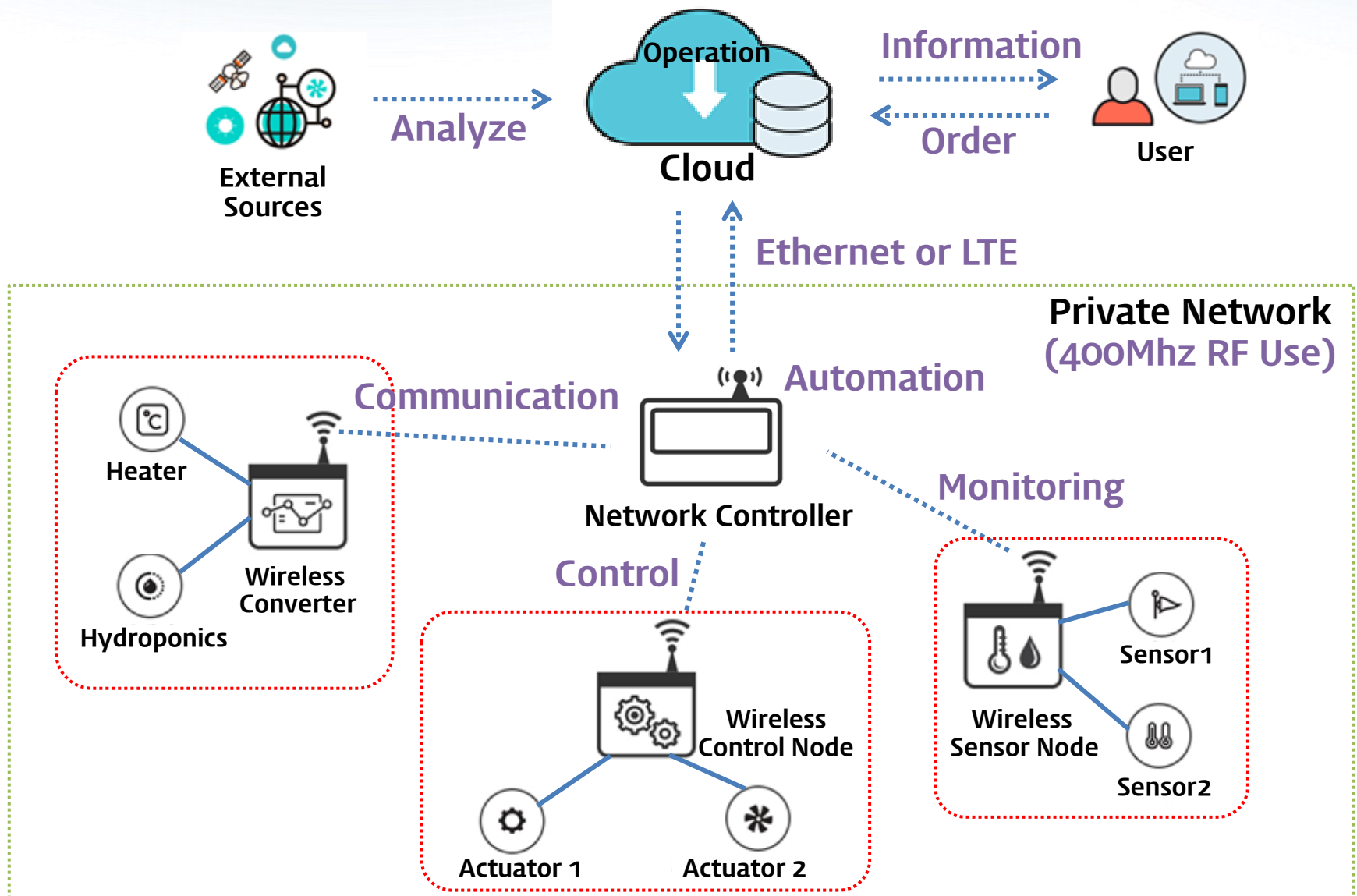
# Cloud-based outdoor smart farm



“Wireless private network with no additional charges”



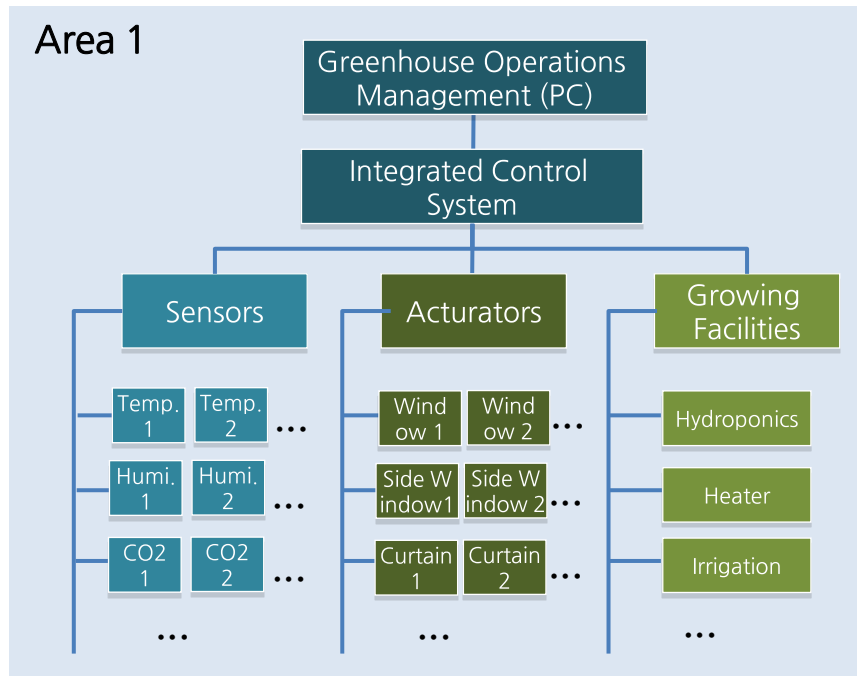
# UBN Cloud Smart Farm Configuration



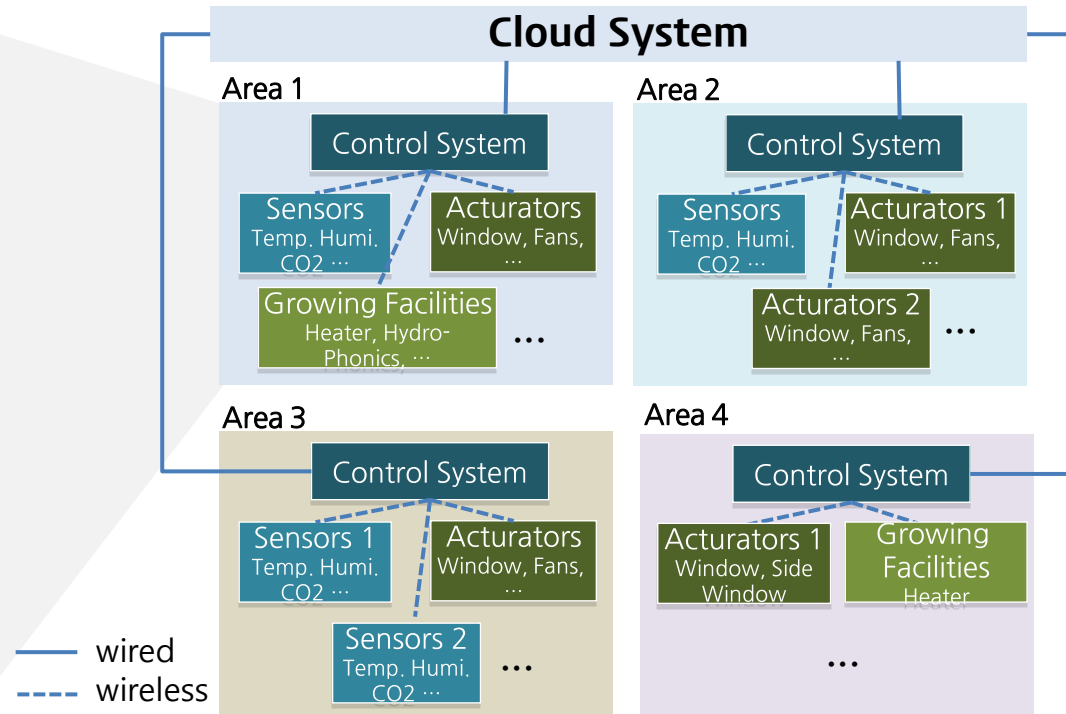


# To-Be Model - Connected Farm

## As-Is (Legacy Model) Batch processing method



## To-Be (UBN FarmLink Model) Distributed processing method



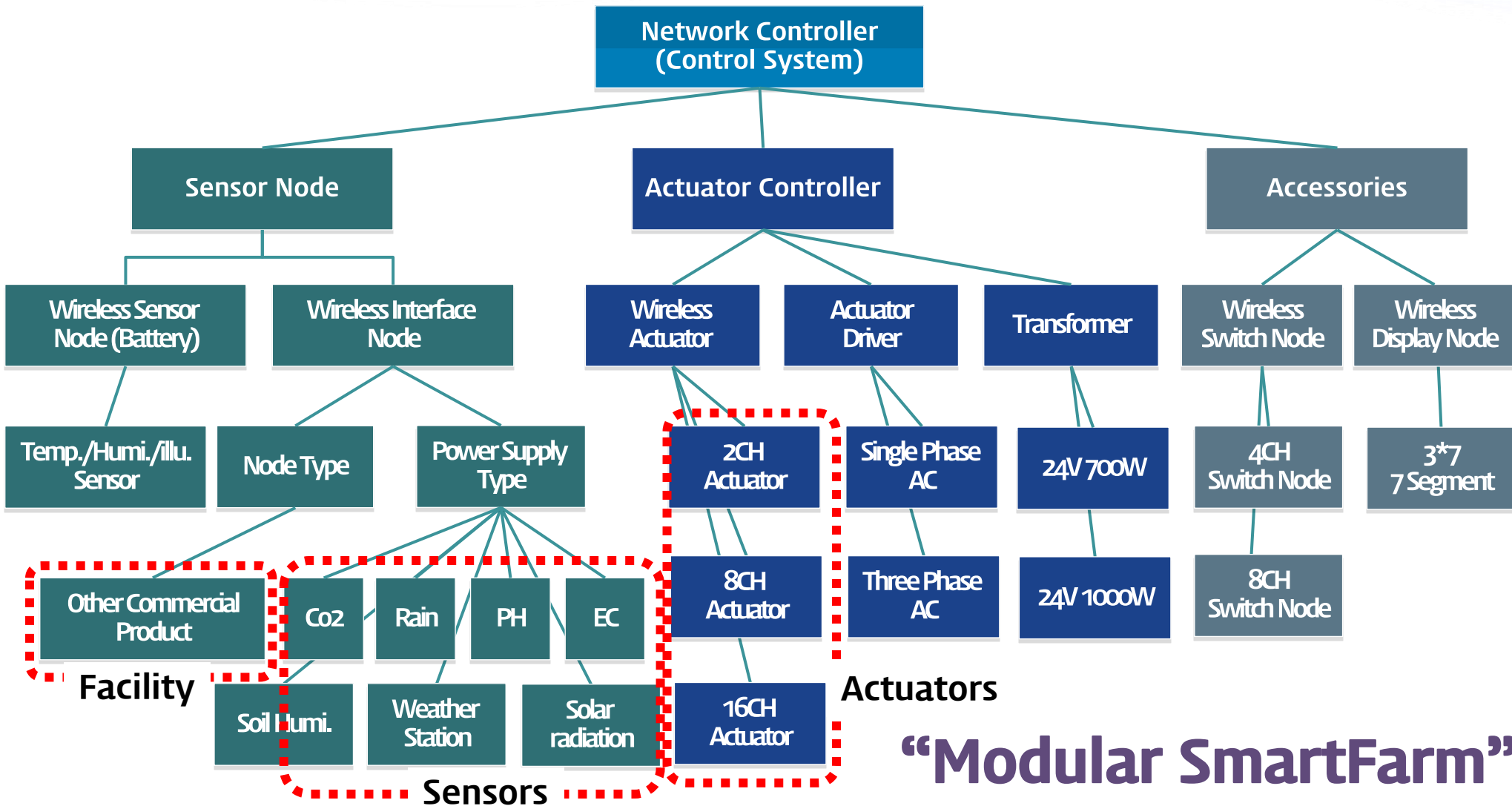
**Mass Production**  
**Central control**  
**Fixed facility**



**Personalized Production**  
**Distributed control**  
**Flexible facility**



# UBN Product List Tree – Modular Type



# UBN smart farm solution “Farm Link v3.0”

“IoT, Cloud, BigData technology applied  
Smart Farm Solution”



“  ”  
FarmLink

 Korea  
Certification  
Product

“First distributed  
processing in Korea”

-Free expansion of greenhouse under  
one system -

“Smart Farm Platform”

- All devices in one-

“Modular Smart Farm”

-Scalable and Reconfigurable Systems -



# Farm Link v3.0 - Features

## “Free Expansion, Complex Control and Integrated Management under One System”



“Easy and simple access based Cloud”

**Web/Mobile service**

Managing all functions (On-off, connect, operate etc.)

**Network Controller**



“Controllable to each zone Complete wireless Actuator Controller”

**Wireless Actuator Controller**

“Multi sensing functions and wireless device”

**Wireless Integrated Sensor Node**



# FarmLink H/W – Network Controller, Actuator node



Classification	Description
Product Name	Network Controller
Model NO.	U-NWC-W-7S
Specification	<ul style="list-style-type: none"> <li>• Wired Communication : Ethernet</li> <li>• Radio frequency : 447.9 MHz</li> <li>• 3x7 display</li> <li>• Power for operation : 90V to 260V</li> <li>• Operating temperature : - 20°C to 80°C</li> <li>• Size : 300 x 300 x 150 (mm)</li> </ul>



Classification	Description
Product Name	2CH Actuator
Model NO.	U-ACT-W-2CH
Specification	<ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• 2 channel each control</li> <li>• Allowed capacity : 24V 10A/220V 10A</li> <li>• Operating Power : 90V to 260V</li> <li>• Operating temperature : - 20°C to 80°C</li> <li>• Size : 300 x 200 x 150 (mm)</li> </ul>



Classification	Description
Product Name	8CH Actuator
Model NO.	U-ACT-W-8CH
Specification	<ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• 8-channel each control</li> <li>• Allowed capacity : 24V 10A/220V 10A</li> <li>• Operating Power : 100V to 240V</li> <li>• Operating temperature : - 20°C to 80°C</li> <li>• Size : 500 x 600 x 200 (mm)</li> </ul>



Classification	Description
Product Name	Actuator Driver - Single / Three Phase AC
Model NO.	U-AD-AC-2CH / U-AD-3PAC-1CH
Specification	<ul style="list-style-type: none"> <li>• 2 channel each control / 1-channel control</li> <li>• Allowed capacity : 220V 20A</li> <li>• Operating temperature : - 20°C - 80°C</li> <li>• Size : 200 x 150 x 100 (mm)</li> </ul>



# FarmLink H/W – Wireless Sensor Node, ...



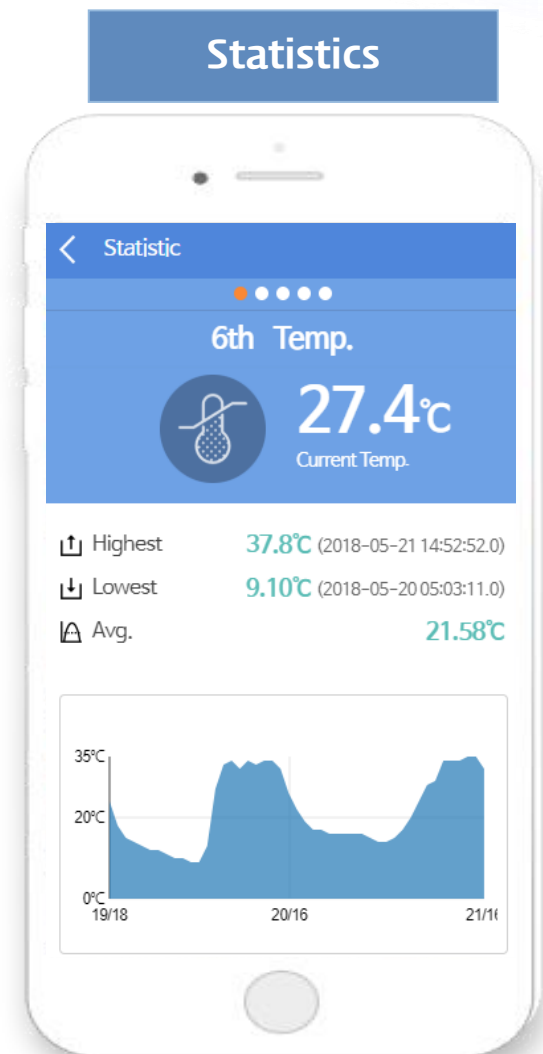
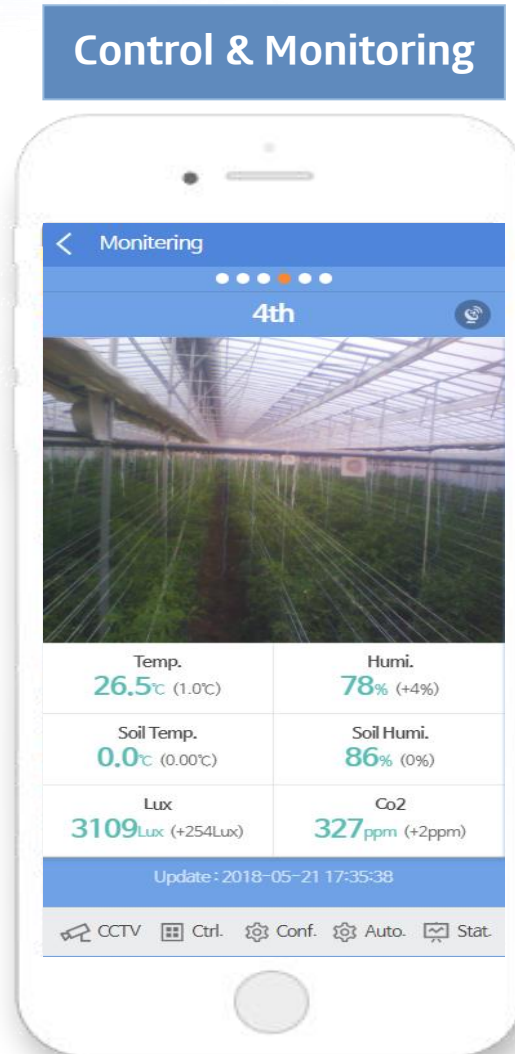
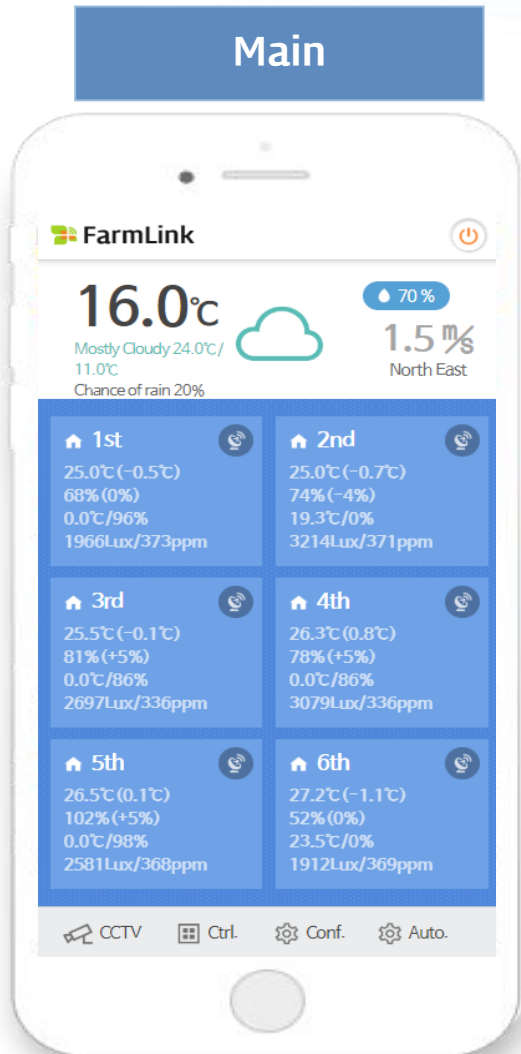
Classification	Description
Product Name	Wireless Sensor Node / Wireless Interface Node
Model NO.	U-SN-W / U-SNIF1-W
Specification	<p>Wireless Sensor Node</p> <ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• Waterproof / dust protection : IP 65</li> <li>• 0~100% RH (±5% precision)</li> <li>• -40 to 125°C (± 1.0°C accuracy)</li> <li>• 0.01 to 83K lux</li> <li>• Battery / External power selection</li> <li>• Battery : AA Type x 4</li> <li>• External power supply : 24V</li> <li>• Operating temperature : - 20°C to 80°C</li> </ul>
	<p>Wireless Interface Node</p> <ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• Waterproof / dust protection : IP 65</li> <li>• RS485, USART, DIO, ADC, I2C, 1- Wired</li> <li>• Selectable power supply for sensor : 24V, 12V, 9V, 5C, 3.3V</li> <li>• System operating power : 7~36V</li> <li>• System operating temperature : - 20 °C - 80 °C</li> </ul>



Classification	Description
Product Name	Wireless 4CH Switch Node
Model NO.	U-SN-W-4S
Specification	<ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• 4 toggle switches</li> <li>• RF strength indication</li> <li>• Communication status indication</li> <li>• Operational power supply : 90V to 260V</li> <li>• Operating temperature : - 20°C - 80°C</li> </ul>

Classification	Description
Product Name	Wireless Display Node
Model NO.	U-DN-W-7S
Specification	<ul style="list-style-type: none"> <li>• Frequency : 447.9 MHz</li> <li>• 2 km distance communications (LOS)</li> <li>• 3 x 7 7Segment</li> <li>• Operation Power : 90V to 260V</li> <li>• Operation temperature : - 20°C to 80°C</li> </ul>

# Farm Link v3.0 – Mobile UI





# Farm Link v3.0 – Irrigation Mobile UI

“Real time data gathering”

KT 11:08 82%  
**FarmLink**  
 습도 북쪽 강수확률  
 60% 1.8m/s 0%  
 맑음 13.0°C  
 휴미템 오이 농가

1.무선환경센서(배터리)

온도	습도	조도
23.5 °C	83.4 %	818 lux
배터리	전파세기	
90.0 %	90 %	

2.무선환경센서(태양광)

수분장력	전파세기	배터리(V)
-7.87 kPa	90 %	4.14 Volt

3.토양환경센서

지온	지습	전파세기
18.4 °C	28.7 %	30 %

4.CO2 센서

CO2	전파세기
599 ppm	60 %

5.제어 컨트롤

전파세기
------

[원격제어] [경보알람/자동화] [그래프] ≡

“Statistic data/graph”

KT 10:36 84%  
**FarmLink**  
 < [그래프]

1동

센서 추이

2021-01-25 - 2021-01-31 1시간

[원격제어] [경보알람/자동화] [그래프] ≡

“Time/sensor based auto”

KT 11:09 82%  
**FarmLink**  
 < [경보알람/자동화]

경보알람      관수펌프

관수펌프

관수펌프 자동화

ON/OFF

시작시간 12 시 30 분

종료시간 12 시 35 분

동작센서 20 kPa

관수시간(초) 100

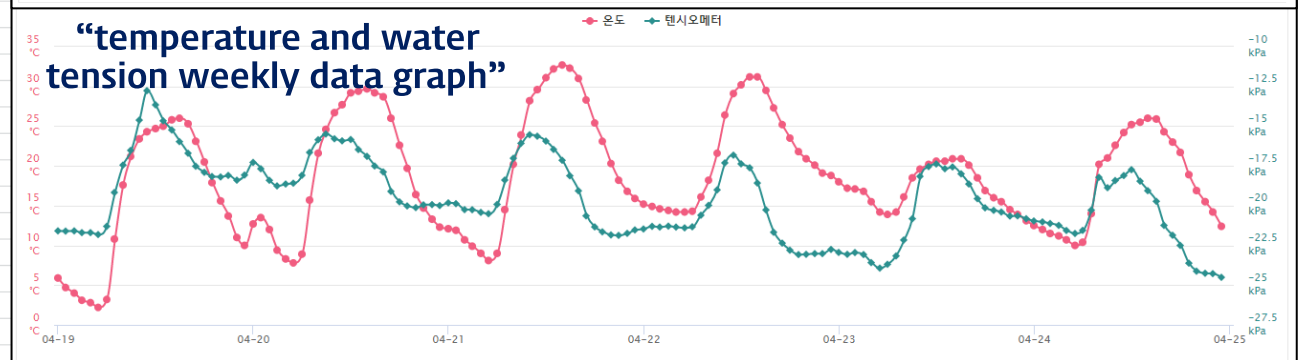
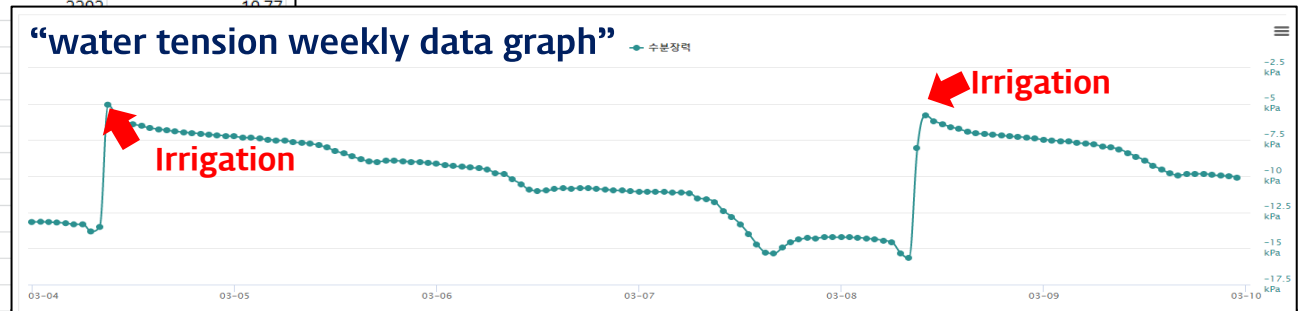
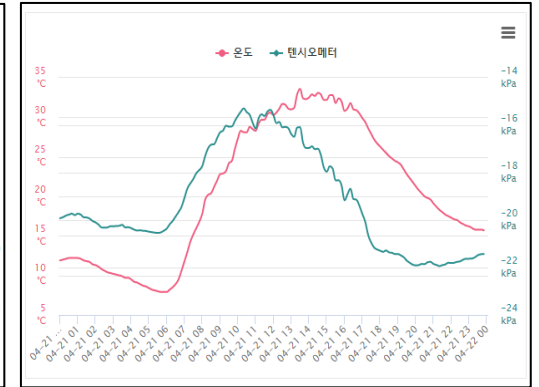
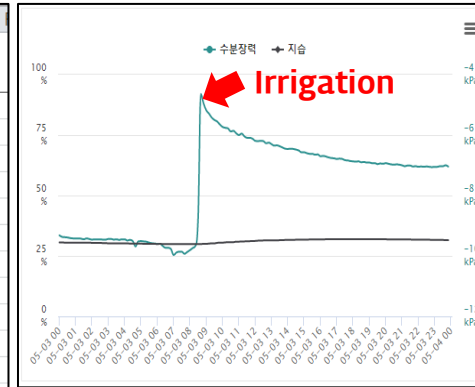
[원격제어] [경보알람/자동화] [그래프] ≡

# Farm Link v3.0– Irrigation Real Time data using

“real time at intervals 1minute excel data”

“green house ground daily data” “fruit tree daily data”  
water tension – Soil Humidity temperature –water tension

	A	B	C	D	E
1		[1]무선환경센서(배터라) / 온도(°C)	[1]무선환경센서(배터라) / 습도(%)	[1]무선환경센서(배터라) / (lux)	[2]무선환경센서(태양광) / 텐시오메터
29192	2021-04-21 06:30	8.6	73.7	982	-19.98
29193	2021-04-21 06:31	8.8	72.6	1146	-19.91
29194	2021-04-21 06:32	8.8	72.7	1310	-19.91
29195	2021-04-21 06:33	8.8	72.7	1473	-19.84
29196	2021-04-21 06:34	8.9	73	1637	-19.91
29197	2021-04-21 06:35	9	72.8	1637	-19.91
29198	2021-04-21 06:36	9	72.8	1637	-19.77
29199	2021-04-21 06:37	9.1	72.8	1310	-19.84
29200	2021-04-21 06:38	9.2	72.7	1637	-19.77
29201	2021-04-21 06:39	9.2	72.7	1637	-19.7
29202	2021-04-21 06:40	9.3	72.9	1964	-19.77
29203	2021-04-21 06:41	9.3	72.5	2202	-19.77
29204	2021-04-21 06:42	9.3	72.5		
29205	2021-04-21 06:43	9.3	72.5		
29206	2021-04-21 06:44	9.3	72.5		
29207	2021-04-21 06:45	9.6	70.5		
29208	2021-04-21 06:46	9.7	70.3		
29209	2021-04-21 06:47	9.7	70.3		
29210	2021-04-21 06:48	9.7	70.3		
29211	2021-04-21 06:49	9.9	70.2		
29212	2021-04-21 06:50	10.1	69.6		
29213	2021-04-21 06:51	10.1	69.6		
29214	2021-04-21 06:52	10.1	69.6		
29215	2021-04-21 06:53	10.1	69.6		
29216	2021-04-21 06:54	10.7	68.6		
29217	2021-04-21 06:55	10.7	68.6		
29218	2021-04-21 06:56	11	68		
29219	2021-04-21 06:57	11	68		
29220	2021-04-21 06:58	11	68		
29221	2021-04-21 06:59	11.3	65.9		
29222	2021-04-21 07:00	11.4	64.9		
29223	2021-04-21 07:01	11.6	64.8		
29224	2021-04-21 07:02	11.6	64.8		
29225	2021-04-21 07:03	11.6	64.8		
29226	2021-04-21 07:04	11.6	64.8		
29227	2021-04-21 07:05	12	62		
29228	2021-04-21 07:06	12	62		





# UBN Smart Farm Outside – Field of Korea (2013 ~ )





# UBN Smart Farm Inside – Field of Korea (2013 ~ )





# UBN Smart Farm – Irrigation Parts(2019 ~ )



Irrigation Smart Farm – Wire Sensor, Power supply, Soil moisture rate



“Sensor-wireless sensor, Power - sunlight, Water tensiometer”



# UBN Smart Farm – Field & Event (2017 ~ 2019)

International Field (Japan 2018)



Domestic Field (Korea 2019)



2017 Japan Agri. Exhibition



2018 ASEAN Trade Conference



2019 Singapore invest. agreement



# UBN Smart Farm – Field & Event (2020 ~ )

Minister of Agriculture and Forestry visited to UBN (2022. 02)



Internal and external exhibition and MOU

Korea Smart Farm Innovation Valley green house



# **Company Introduce**



# Company summary

## General status

<b>Co. Name</b>	UBN corp.	<b>Main business</b>	Development Smart farm system, Web and Mobile development, big data/AI
<b>CEO</b>	Eun-Ki Ahn	<b>Homepage</b>	<a href="http://www.ubncorp.kr">http://www.ubncorp.kr</a>
<b>Capital</b>	\$299,423	<b>Address</b>	501ho,160,Alphacirty 1-ro, Suseong-gu, Daegu, Republic of Korea
<b>Date of corporation</b>	March 10,2008	<b>Lab</b>	4 <sup>th</sup> floor,121-9, Yutongdanji-ro 8-gil, Buk-gu, Daegu
<b>Staff</b>	20 persons	<b>Company operated greenhouse</b>	Gimcheon-si, Gyeongsangbuk-do (tomato, strawberry container Farm) 14ho greenhouse,Innovation Valley , Sangju-si, Gyeongbuk (strawberry raiseing seedings)

## Business Part

### SmartFarm Service

- greenhouse Smartfarm
- environment sensor
- growth environment control system
- Irrigation Smart Farm



### System integration and consulting

- S/W development
- mobile web/app development
- system planning
- consulting service



### Big data/AI

- agriculture bigdata service
- smartfarm AI service
- bigdata /AI consulting
- agriculture data analysis



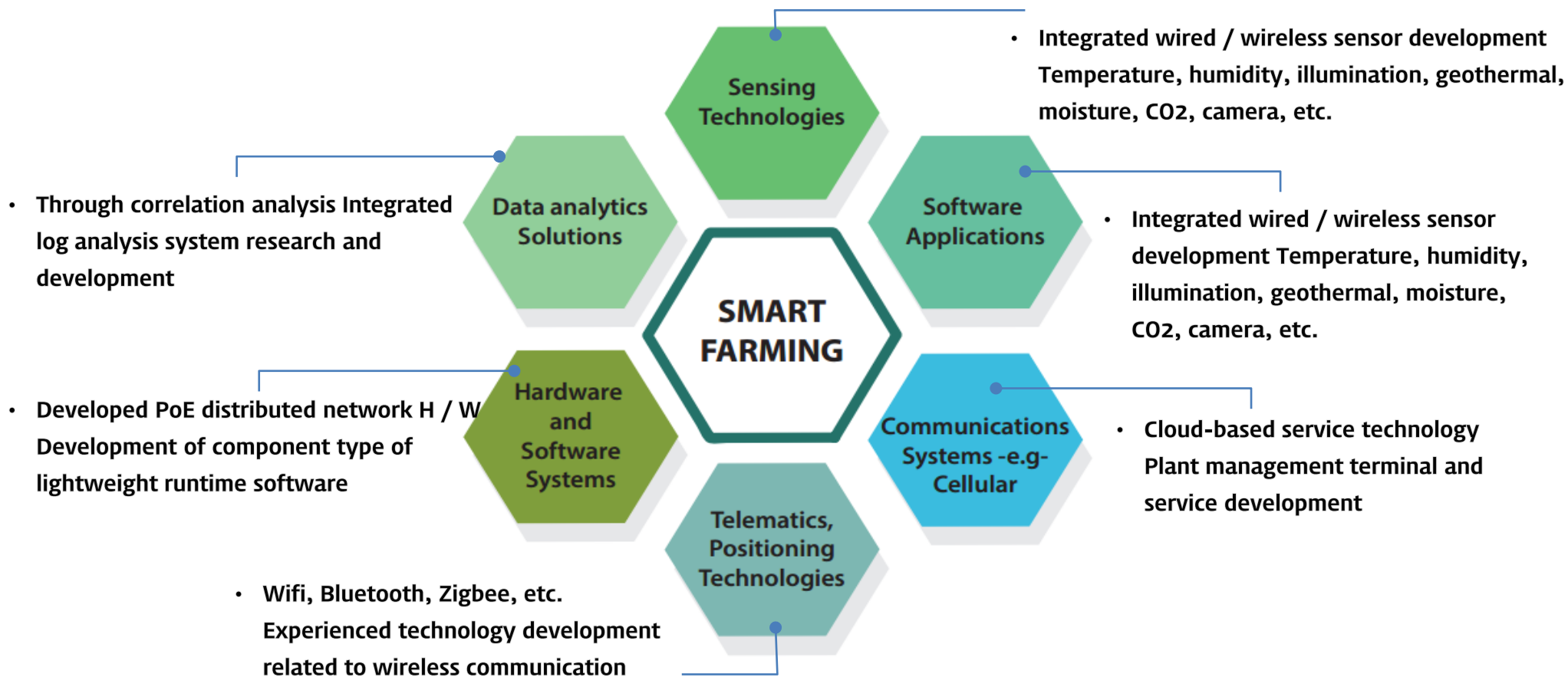
### Plant Factory

- urban minimal plant factory
- container plant factory
- light controlll service
- plant cultivation LED



# UBN Capacity related to Smart Farm

“14-year agriculture ICT experience, 8-year smart farm development, 7-year demonstration”





# Major business part1

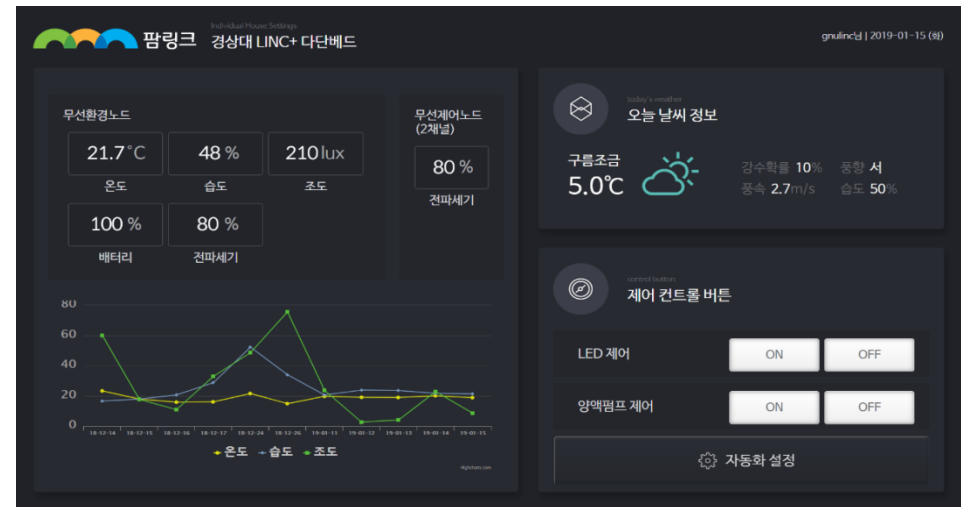
## 1 Smart Farm solution development

- UBN Corp. Development Cloud and Wireless technology Smart Farm System “Farmlink 3.0”
- Using in 250 greenhouse, institution, School
- 3 types of KC certification, 9 types of intellectual property rights
- Expand the supply of smart farm products in the filed and livestock fields
- Scheduled to be released “Farmlink 4.0”



### 유비엔 미래형 스마트팜 시스템 \_팜링크

(주)유비엔은 농업의 스마트화를 위한 지속적인 투자와 개발을 통해 농업의 노동 효율성을 높이고, 농민들의 삶의 질 향상에 기여할 수 있는 혁신적인 미래형 첨단 신제품 스마트팜 시스템 팜링크를 개발하였습니다.



# Major business part2

## 2 Plant Factory and Container Farm

- Indoor small plant farm system
- Strawberry container Farm
- Using sunlight and energy saving plant Factory system
- Vertical plant cultivation and AeroPonics
- Plant Factory small nutrient solution and heat pump air conditioning technology

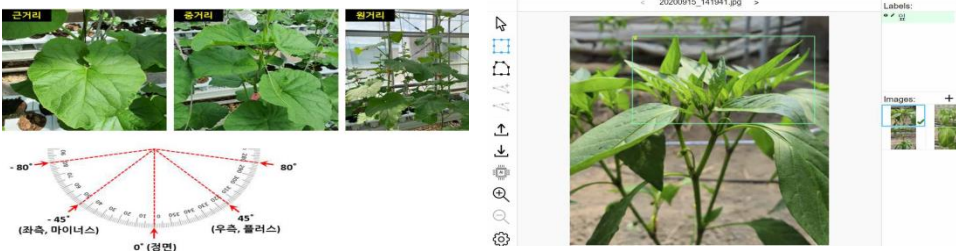
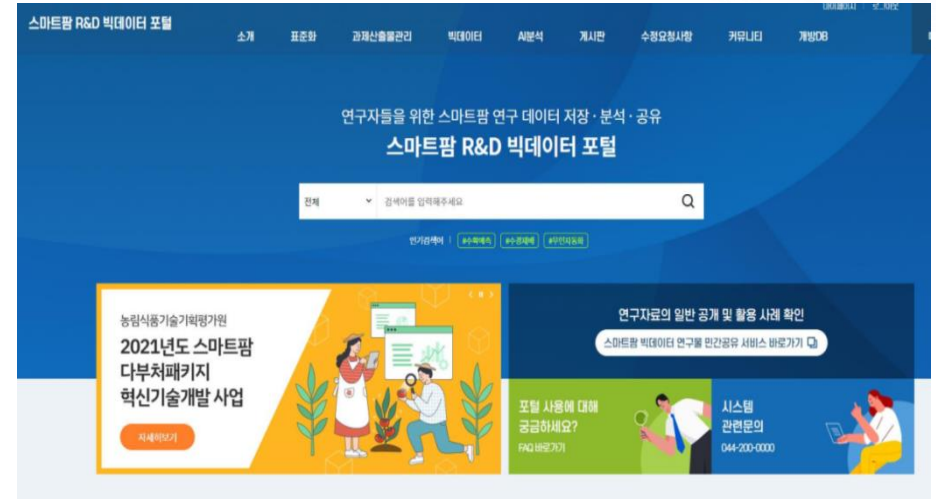




# Major business part3

## 3 Agriculture bigdata and AI research

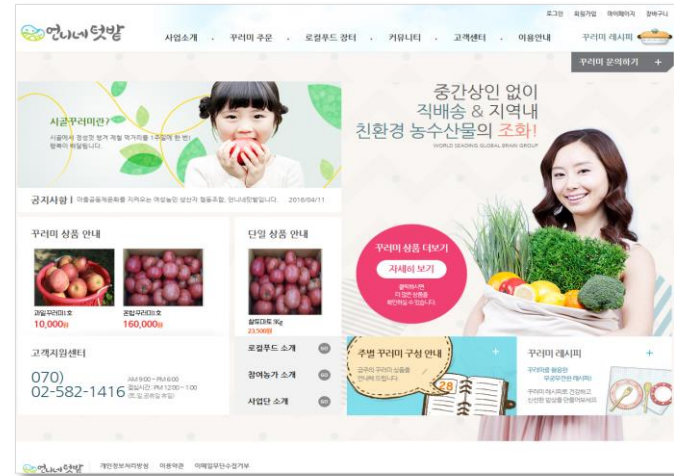
- Smart farm R&D bigdata business – data standardization and Information collection system development
- NIA ai data construction – facility crops and vertical farm image data 150 thousand cases
- Managing Agriculture part AI data Cloud worker



# Major business part4

## 4 SI service industry

- Web/Mobile application and SI business
- Development Ministry of agriculture, Education Ministry, Korea Chamber of Commerce and Industry etc. Government office Service



[Ministry of agriculture] direct transaction support system



[Korean Studies Advancement Center] Managing homepage and 4 types others homepage



[Education Ministry] Characterization High School Homepage



# UBN Smart Farm future

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**“We will be a Smart Farm specialized company where everyone can grow crops anytime, anywhere.”**

# Thank you.

Company that makes farm greater value through  
agriculture and IT convergence  
**UBN corporation**

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Manager : Kim, ji-sung ([rain@ubncorp.kr](mailto:rain@ubncorp.kr))

Seo, jae-seok ([jsseo@ubncorp.kr](mailto:jsseo@ubncorp.kr))

Yang, suyong([moonreia@ubncorp.kr](mailto:moonreia@ubncorp.kr))