

# VIRNECT specialized in AR•DT

We provide optimal solutions for solving problems in industrial sites.

2020 Q1 | [contact@virnect.com](mailto:contact@virnect.com)

**VIRNECT**

# What's the status in your worksite?

Dangerous industrial worksite, ineffective work

Average of 2 people pass away every day due to accidents, bottom-level labor productivity among OECD countries (28<sup>th</sup> place among 36 countries)



Risk of falling or electric shock while working in high places



Need to share the burden of the responsibility for equipment accidents with subcontractors and power plant(contractor)



Missing / Injury / Death due to explosions in chemical plants



Ineffective communication, inadequate response in worksite



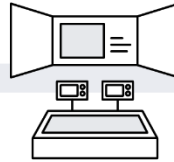
Ineffective inspection, manual recording



Ineffective guidance and insufficient safety training in worksite

# What is the reason?

Problems in worksite, control room, and company



## Problems in worksite

- Difficulty in searching, understanding, modifying, memorizing, recording data
- Difficulty in work training
- Lack of specialty
- Increase in work time
- ...

## Problems in control room

- Difficulty in understanding, managing, supporting worksite
- Difficulty in checking safety
- Increase in work time
- ...

## Problems in company

- Overtime allowance
- Additional recruitment
- Increase in risk for safety accident
- Penalty in case of violation of Occupation Safety and Health Acts
- Decrease in company reliability
- Decrease in financial solvency
- Deterioration in competitiveness
- ...



# VIRNECT Solution

Optimal solution for solving problems in industrial worksites

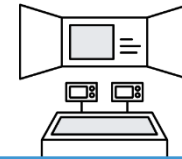
## Worksite



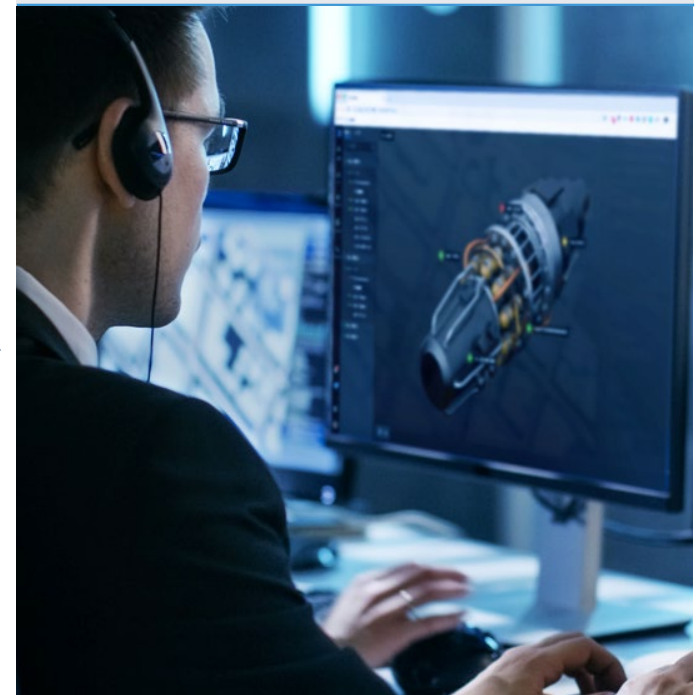
Effectively conducting work in the site



## Control Room



Effectively understanding the worksite

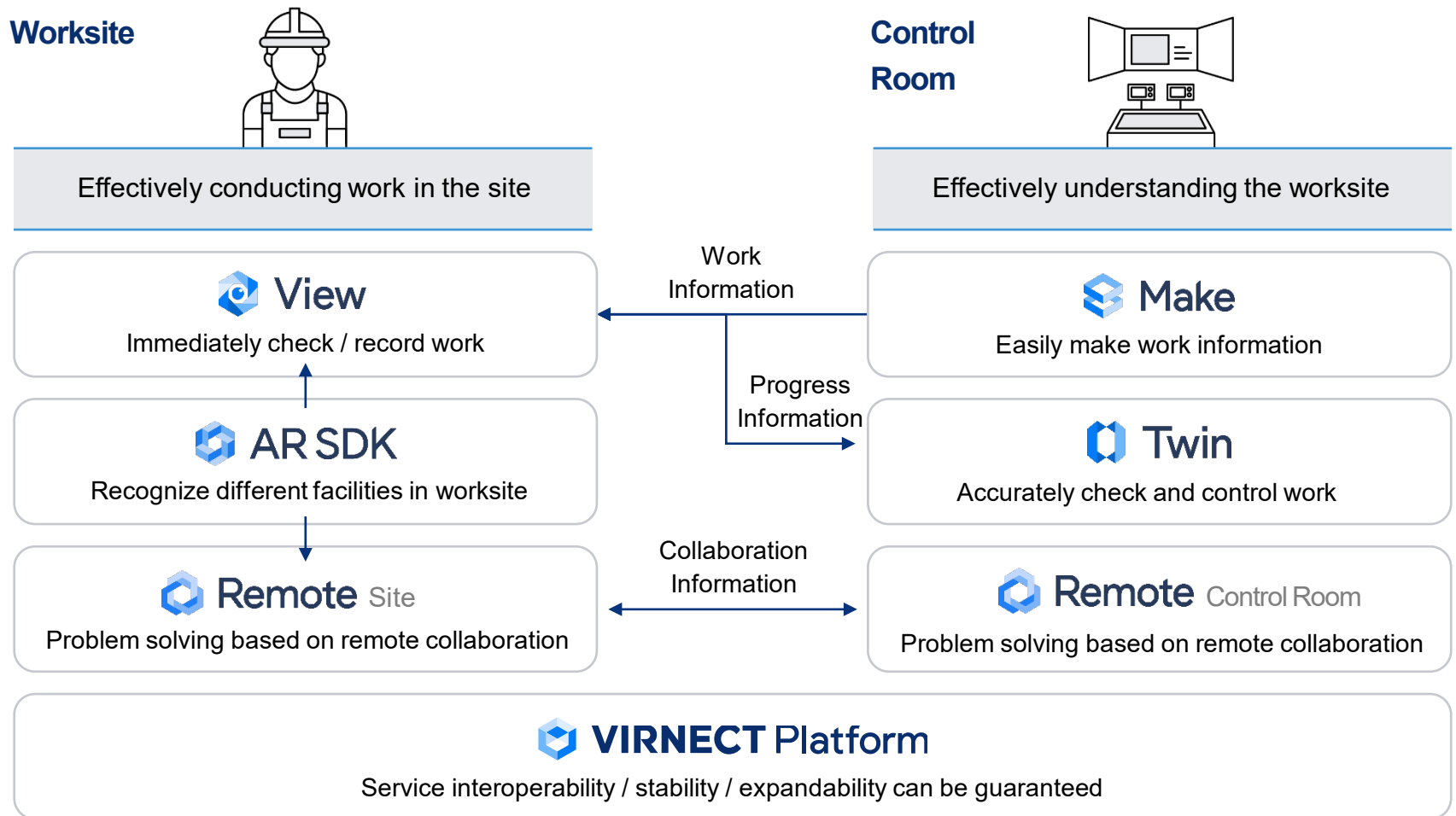


Work information  
Progress information  
Collaboration information



# VIRNECT Solution

Optimal solution for solving the problem in industrial worksite



# VIRNECT Service

Optimal solution for accurately diagnosing customer's problem



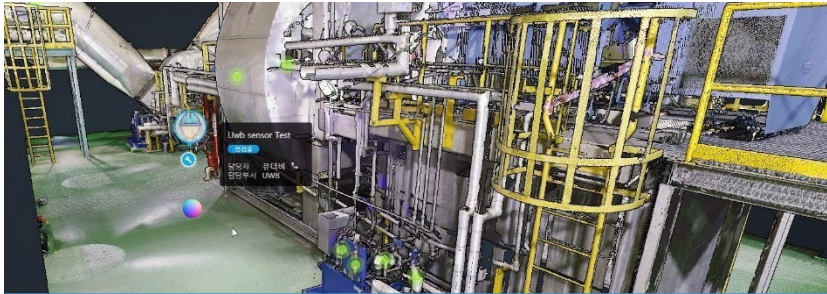
## Consulting

- ✓ Duty/Environment analysis
- ✓ Stability analysis
- ✓ Economic analysis



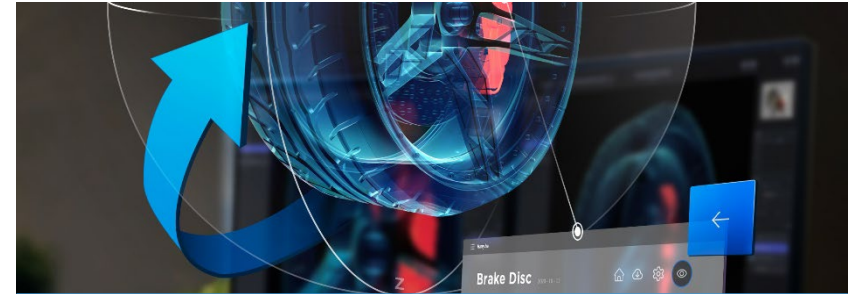
## Seminar / Education

- ✓ Technology introduction
- ✓ Product training and experience
- ✓ Introduction of success cases



## Proof of Concept (PoC)

- ✓ Use minimum function
- ✓ Review potential for introduction
- ✓ Verify introduction effect



## Making AR, DT contents

- ✓ Digital transformation of data
- ✓ 3D scanning, modeling, conversion
- ✓ Planning / Making AR contents

# VIRNECT

Best company in South Korea specialized in AR/DT

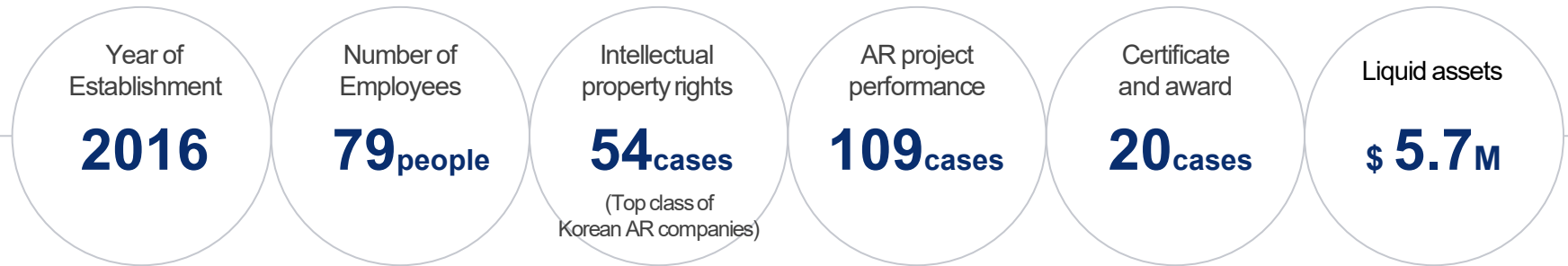
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## Mission

We aim to provide improved industrial safety, highest work efficiency, and best convenience to our customers.

## Vision

**‘World’s most customer-oriented company’** for solving the customers’ problems



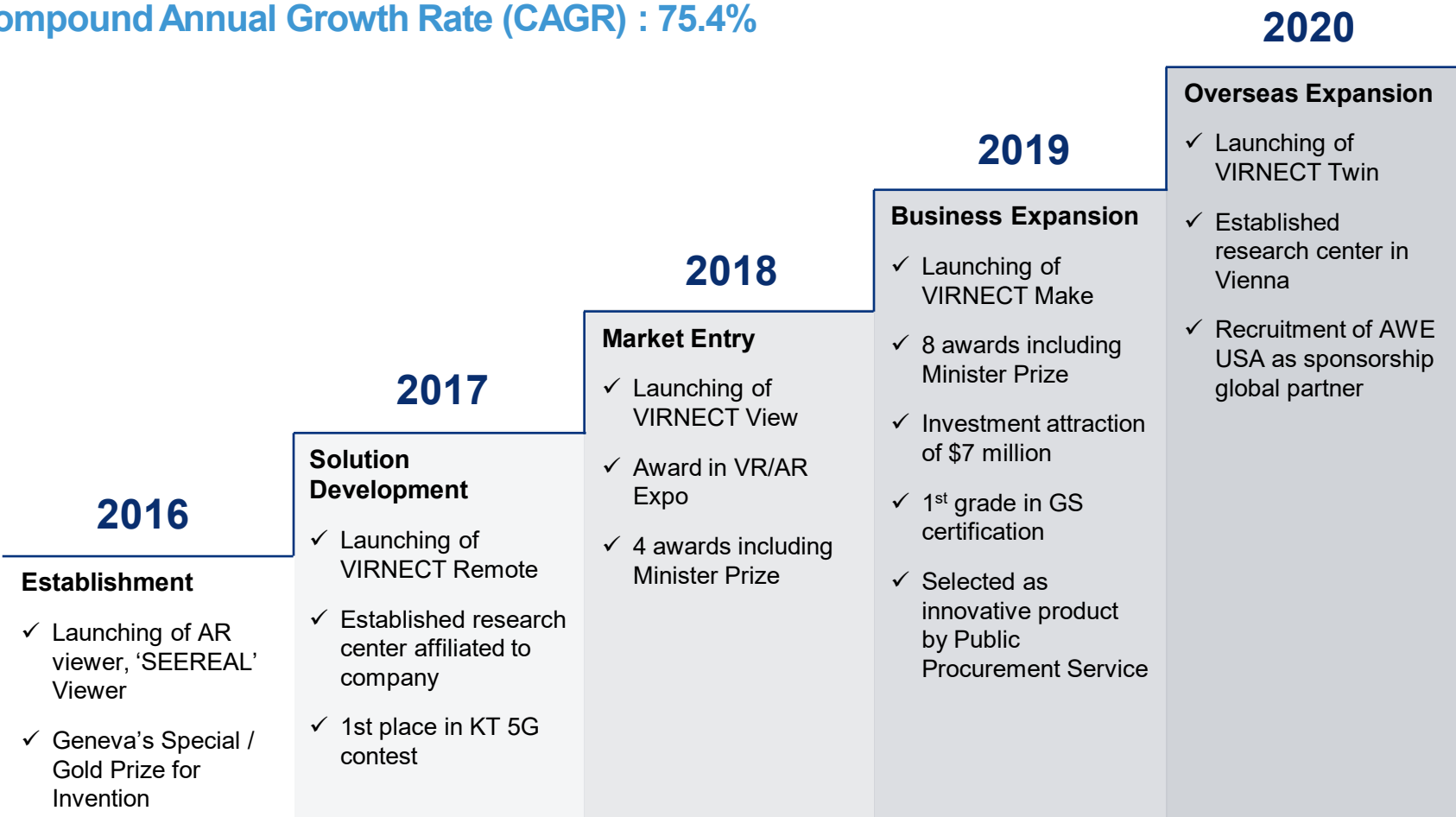
- **79 employees +** (20 top experts having master’s and doctorate degree, 45 R&D personnel, 5 QA personnel)  
**100 research papers** (Top class of Korean AR companies)
- **Investment attraction : \$7 million** (series A, Top class of Korean AR companies)  
**Compound Annual Growth Rate (CAGR) : 75.4% Current Ratio : 876%**
- **Company Satisfaction Level : 4.15 rating** (5-point scale, company having excellent ‘work and life balance’)



# VIRNECT

VIRNECT is continuously growing

Compound Annual Growth Rate (CAGR) : 75.4%





# VIRNECT

Best company in South Korea specialized in AR/DT



## VIRNECT Experience Center (Seoul)

### **CEO Ha, Tae-Jin**

Doctor of Engineering, KAIST (UVR Lab)

Former research professor, KAIST

Research papers in world-famous academy (60 papers; ISMAR etc.)

3 patent rights in USA



## VIRNECT Vienna Research (Austria)

### **Research Director Kim, Gi-Young**

Doctor of Engineering, GIST (UVR Lab)

Former Qualcomm Austria (Vuforia Engine), DAQRI

Research papers in world-famous academy (ISMAR etc.)

7 patent rights in USA

# VIRNECT

Taking prompt action based on agile structure

		Project			
		Product Project	Customizing Project	Product Integration Project	Other Projects
Chapter	Business	Customer generation/consulting, proposal, estimation, performing PM, product planning, SW planning, advertisement			
	Design	UI/UX, BX, 3D/interactive, video			
	R&D	IoT, Android, iOS, Unity, Web Client, Windows, Server, ML			
	Quality / Training	Project Quality, Product Quality, CX, Training			
	Management Support	Finance, Accounting, Personnel, General Affairs, Contract			

# Certificates and Awards



Ministry of Science and ICT

Digital Contents Industrial  
Contribution  
Ministry of Science and ICT  
Minister Prize



Korea Grand Prize  
ICT Innovation  
Special Prize for Excellent  
Company



Smart City  
Business Fair  
Designated as top 10  
outstanding companies



Seoul VRAR Awards  
Award in AR



1<sup>st</sup> grade in GS Certificate  
(VIRNECT Remote)



1<sup>st</sup> grade in GS Certificate  
(VIRNECT Make & View)



2019 Korea Electronics Contest  
Innovation Prize in Best Content  
(VIRNECT Remote)

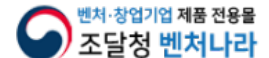


Ministry of Science and ICT

SW market support business  
Minister Prize, Ministry of  
Science and ICT  
(VIRNECT Remote)



2017 KT 5G Service Contest  
Grand Prize  
(VIRNECT Remote)



Registered as venture company  
by Public Procurement Service  
(VIRNECT Make & View)



Public Procurement Service

2019 Innovative product  
(VIRNECT Make & View)



Innovation Prize in WIS 2019  
(VIRNECT Make & View)



3D Fusion Industry Association  
Certificate of Merit  
for Industrial Development



Korea BIM Academy  
Prize for outstanding  
research paper



VIRNECT AR SDK  
V&V performance verification



VIRNECT Remote  
V&V performance verification



VIRNECT View  
V&V performance verification



Table-Top  
V&V performance verification



Real-time wireless  
video transmission and  
monitoring program  
V&V performance verification



UWB sensor error range  
measurement  
V&V performance verification

# Customer References

## Public Sector



## Private Sector



**SAMSUNG SDS**



**SK C&C**



**HDC I · CONTROLS**

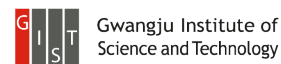


**SK innovation**



**Korea Business News**

## Education Sector





# Letters of Recommendation

“ VIRNECT Solution has provided a significant contribution to development of Smart Factory platform



“ VIRNECT Remote is currently supporting a lot of work related to overseas manufacturing worksites.



“ VIRNECT Solution can be helpful in improving productivity in power plants and easily sharing information.



“ Object detection function provided by VIRNECT AR SDK can provide the platform for managing measurement information in industrial worksites.



“ VIRNECT Solution suggests systematic information management and optimal safety management platform in the field where high reliability is required.



“ It is seen as one of the best tools that can be used for facility maintenance without limitation in time and space.



“ AR solution is used for worksite maintenance, leading to a better understanding of work and improvement in work efficiency.



“ VIRNECT AR Solution used for worker's inspection has significantly improved customer satisfaction.



“ VIRNECT, specializing in AR devices that are able to compete with global AR companies, provides its differentiating core solution. It will be used as an essential partner for improving productivity in worksites.



**Find VIRNECT Solution for solving  
the problems in industrial worksites!**

**VIRNECT**

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