

VIRNECT specialized in AR•DT

We provide optimal solutions for solving problems in industrial sites.

2020 Q1 | 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 (28th 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



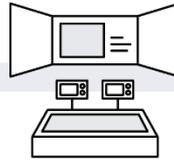
Ineffective inspection, manual recording



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

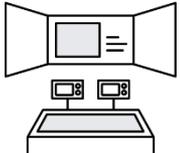
Worksite



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

Worksite



Effectively conducting work in the site



View

Immediately check / record work



AR SDK

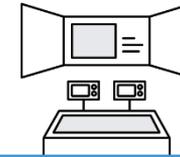
Recognize different facilities in worksite



Remote Site

Problem solving based on remote collaboration

Control Room



Effectively understanding the worksite



Make

Easily make work information



Twin

Accurately check and control work



Remote Control Room

Problem solving based on remote collaboration

Work Information

Progress Information

Collaboration Information

VIRNECT Platform

Service interoperability / stability / expandability can be guaranteed

VIRNECT Service

Optimal solution for accurately diagnosing customer's problem



Consulting

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

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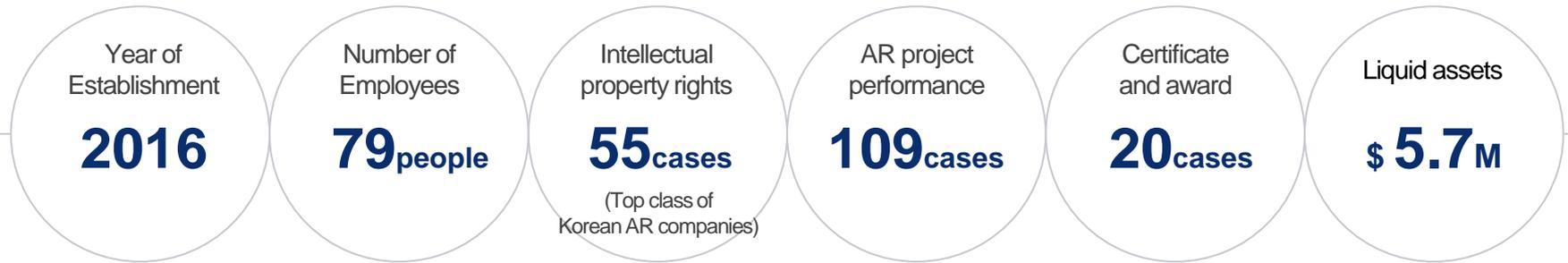
Best company in South Korea specialized in AR/DT

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

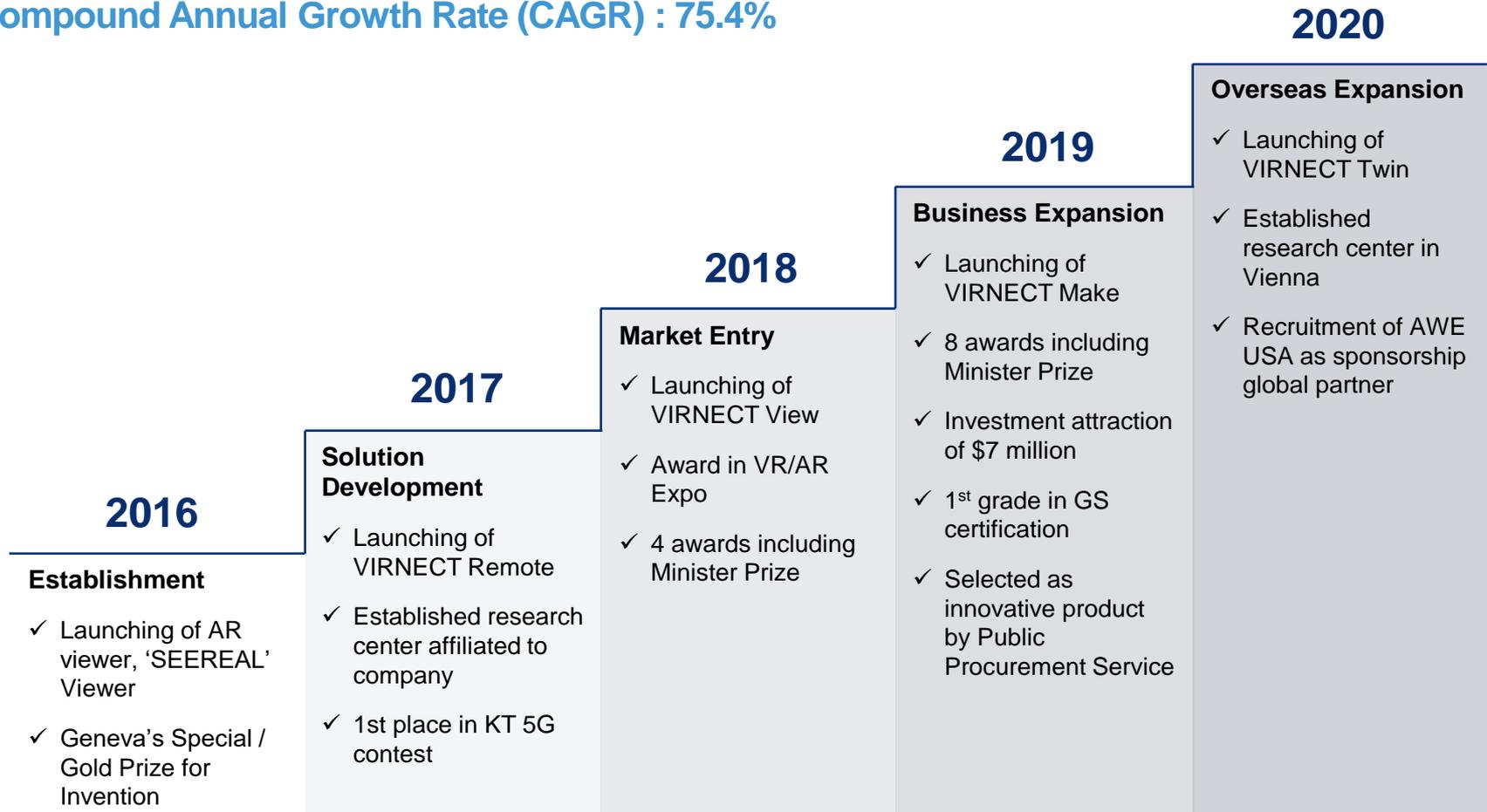


- **79 employees +** (20 top experts having master's and doctorate degree, 45 R&D personnel, 5 QA personnel)
100 research papers (Top class of Korean AR companies)
- **Investment attraction : \$7 million** (series A, Top class of Korean AR companies)
Compound Annual Growth Rate (CAGR) : 75.4% **Current 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, Taejin

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, Ki Young

Doctor of Engineering, GIST (UVR Lab)

Former Qualcomm Austria Research, 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



1st grade in GS Certificate (VIRNECT Remote)



1st grade in GS Certificate (VIRNECT Make & View)



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

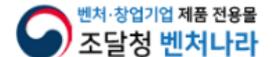


Ministry of Science and ICT

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

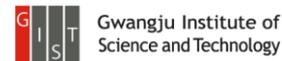


Korea Business News

Education Sector



multicampus



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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