

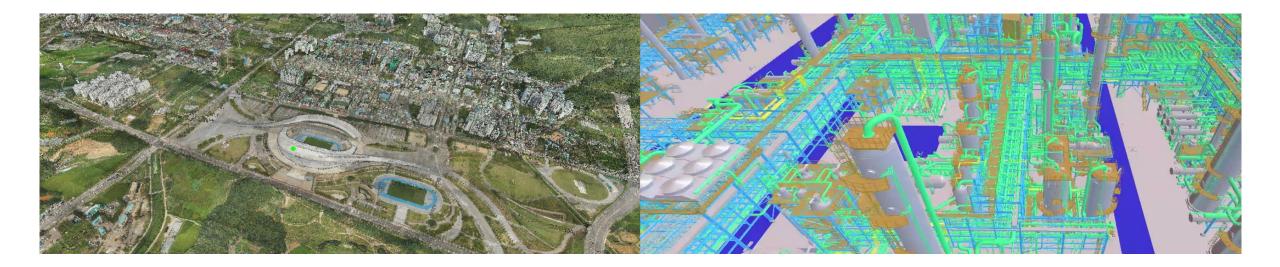
Company Profile





66 conworth offers unprecedented 3D solutions for the built world **99**

Conworth offers solutions that Unreal and Omniverse cannot provide!





© conworth **offers unprecedented 3D solutions**

From March 22 to 28, 2025, a wildfire swept through Gyeongsangbuk-do and destroyed Yeonsujeon Hall of Gounsa Temple in Uiseong (Treasure No. 2078).

Before the wildfire damage, high-fidelity 3D data had already been created through the Cultural Heritage Administration's digital archiving project.

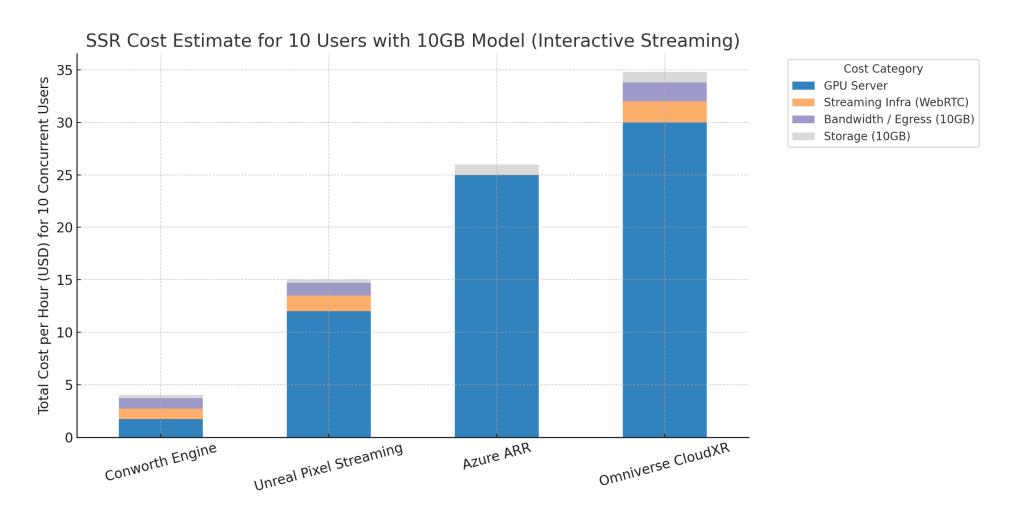
Thanks to Conworth's solution, you can directly experience and explore this invaluable heritage in 3D.





https://heagle2.conworth.net

Highlight | Conworth Technology

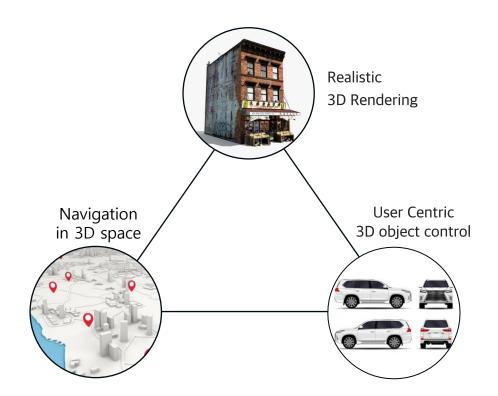


Conworth Engine is 4-10 times more cost-efficient and outperforms world-renowned solutions such as Unreal Pixel Streaming, Omniverse CloudXR, and Azure ARR.



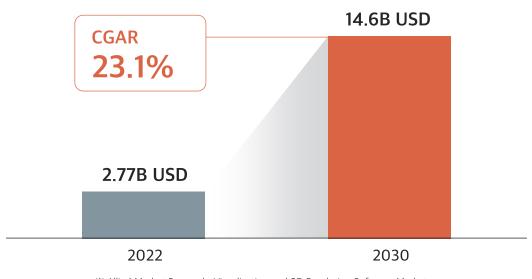
Background | 3D Virtualization

O 3D Virtualization?



 3D virtualization is a core technology for digital twin, metaverse, and 3D design. Unsuccessful digital twin and metaverse are due to limitation in existing 3D virtualization technology.

O 3D Virtualization and Rendering Market



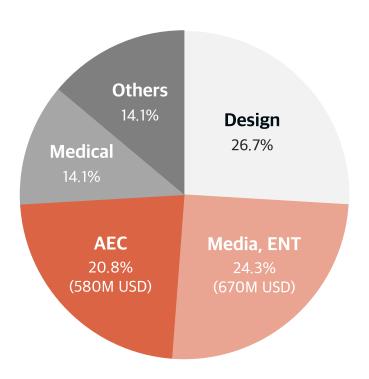
* Allied Market Research, Visualization and 3D Rendering Software Market

A variety of application domains adopt 3D solutions with advent of more
 3D content, better computing power, and wider network bandwidth

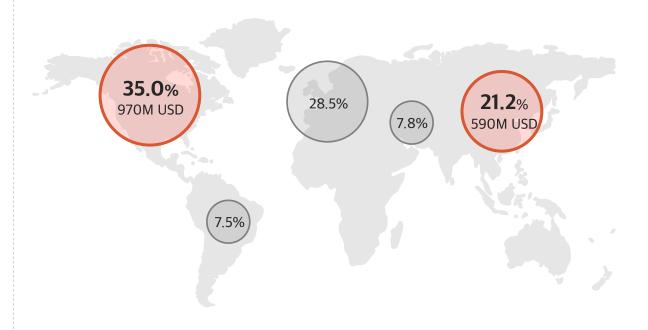


Target Market | Size

Global 3D solution Market Size (Domains)



Global 3D solution Market Size (Regions)



*Total 3D solution market size: 2.77 Bil USD

^{*} Allied Market Research, Visualization and 3D Rendering Software Market, 2021



Problems & Solutions | Market Questions



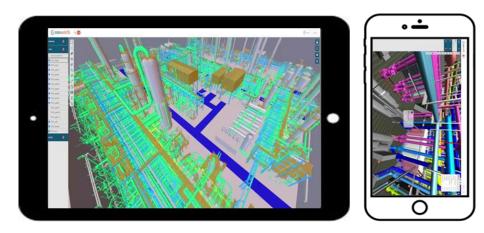
How can companies enable access to an automotive smart factory's digital twin (8Gb) from anywhere, at any time?



How can collaborate efficiently using a 3D virtual space of the site (10Gb) via smartphones during the project?



Is it possible to view the intricate 3D structure and detailed paintings in a temple (21Gb) on a smartphone?



Is it possible to effectively manage on-site facilities of a petrochemical plant using a digital twin (6.5Gb) on a tablet?



Problems & Solutions | How To Solve?

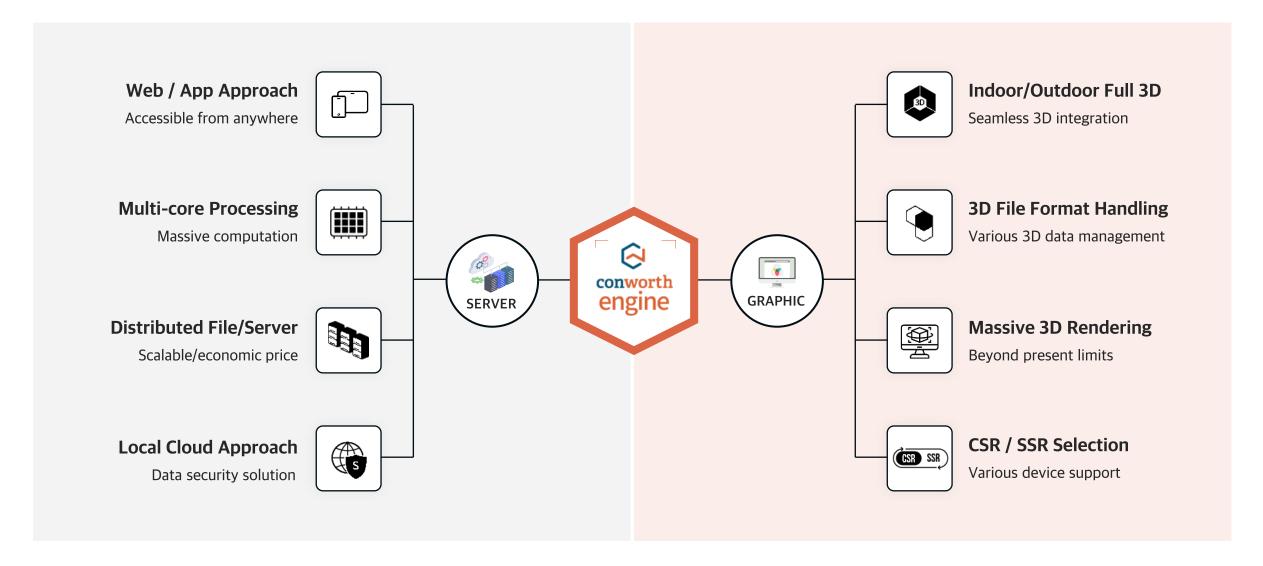
For efficient server operations and effective 3D graphics

3D Data/Rendering Engine





Problems & Solutions | Conworth Engine





Competition | Conworth Engine Benchmark Test

Output Comparison of Rendering Quality with World-class Graphic Engines



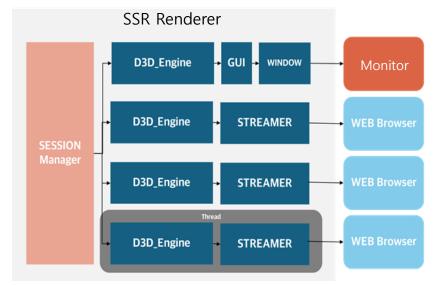


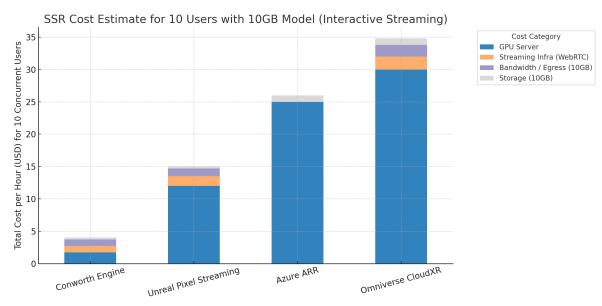
Competition | Differentiation

Key Differentiators of Conworth Engine

- 1. Multi-threaded Architecture for Multi-User Access
- Designed and developed with a multi-threaded architecture, enabling parallel processing of multiple user requests within a single server.
- This allows multiple users to share a single GPU instance simultaneously, maximizing hardware utilization.
- 2. Optimized Resource Allocation
- Dynamically allocates GPU and CPU resources based on system load, minimizing idle usage and reducing unnecessary infrastructure costs.
- Compared to existing cloud-based SSR services such as Unreal Pixel Streaming, Azure ARR, and Omniverse CloudXR, the Conworth Engine achieves

4 to 10 times greater cost efficiency.







Competition | Differentiation

Key Differentiators of Conworth Engine

- 3. Specialized for Ultra-Large 3D Data Handling
- Benchmark tests show the Conworth Engine outperforms major international rendering solutions in processing heavy 3D datasets

| Took DC Cooker AMD I | yzen 5 5600X 6-core | / NIV/IDIA CaFavaa | DTV 2000 TI | |
|------------------------|---------------------|--------------------|---------------|--------------|
| Lest Pu Spec: Alvill F | VZED 5 SHUUX 6-CORE | / INVILIA GEFORCE | K I X 3090 11 | / baus raivi |
| | | | | |

| Data Other Pr | roducts | UNREAL | G Filament | Windows 11 3D Viewer | KHRONOS (glTF Viewewr) |
|--|---------|-------------------------------|-------------------|----------------------|---------------------------|
| FAB (5.16Gb, 5.3M Polygons, 2 Text | ure) | 0 | 0 | X | 0 |
| Petrochemical Plant (6.53Gb, 144.3M Polygons, 0 Tex | kture) | X (No response) | X | X | 0 |
| Cultural Heritage (21.3Gb, 151.5M Polygons, 7 Tex | ture) | X (Buffer file size issue) | X | X | X (No response) |
| Architectural Landmark (743Mb, 1.9M Polygons, 2275 Te | xture) | ○ (Loading takes 1 hour) | X | 0 | 0 |

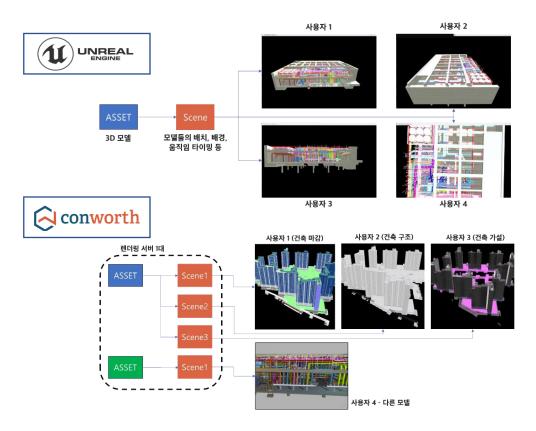
- 4. Built-in Integrated Rendering Pipeline
- Conworth Engine is designed with an internally integrated rendering pipeline, eliminating the need for external renderers or complex API calls.
- Its lightweight and modular architecture enables rapid customization to meet client-specific requirements, offering superior operational efficiency and flexibility in deployment.



Competition | Conworth Engine Benchmark Test

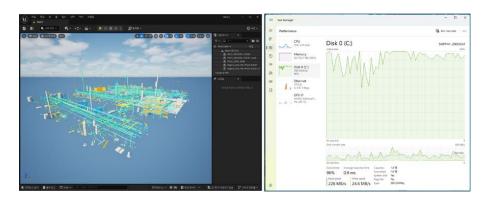
Comparison of Rendering Performance with Unreal

(1) Multi-scene viewing in SSR



Conworth Engine enables support for multiple scenes within a single renderer through its proprietary multi-threading and video memory sharing technologies

(2) Efficiency in Multi-user access





For petrochemical plant BIM data (5.83 GB, 144M polygons), Unreal failed to convert the model at full detail and consumed all available memory even for a single user with a low-detail version. In contrast, the Conworth Engine successfully streams full-detail data smoothly to multiple users.



Business Model | Three Business Models based on Conworth Engine

Engine (On-Premise / API)



On-Premise

- Integrated 3D Engine within a Unified Software Platform
- Supports Modification & Customization

API Licensing

- API-Based Licensing Model
- Enables Building New Software Using Conworth Engine

Key Strengths

- Web/App Access to Large-Scale 3D Data
- Rendering Quality Comparable to Commercial Engines (Unity/Unreal)
- Flexible Deployment Without Lock-In to Specific Cloud Platforms (e.g., Omniverse)

SaaS Solution (3D Note)

APP/Web based 3D Collaboration Tool

SaaS Applications Middleware Server

Subscription-Based Service Model

- Tiered Pricing by Concurrent Users & Data Complexity
- Optional Custom Features (e.g., Drawing/Quantity Integration)
- Secure On-Premise Deployment
 Available for Confidential Data



SI Projects & Eagle Series

Construction Site Platform

- 3D Site Management
- Design–Construction
 Consistency Check Solution

Immersive Visualization

- Realistic 3D Visualization
- Web-Based Large-Scale3D Viewing



Robot Solutions

- Quadruped Robot (SPOT)
 Monitoring System
- Facility Safety Management with Robots/IoT
- **Ultra-Large Visualization**
- City-Scale 3D Visualization Solutions
 - TB-Scale Point Cloud Visualization Platform

Conworth operates three core business models based on its proprietary large-scale 3D rendering engine (Conworth Engine):

(1) On-Premise licensing of Conworth Engine; (2) SaaS solution (Conworth 3D Note); (3) SI-based project deployments (Eagle series)



Business Model | PRODUCTS (

1. 3D Engine – Application Cases

H Company Smart Factory Digital Twin





Unity-based 3D Smart Factory Control Solution

- Prob Operates only in the control room due to high device requirements
- Prob Inconvenient to use as a high-resource standalone software
- Prob Large 3D data restricts operation to wired network environments only

Multi-User SSR (Conworth Engine) Based Digital Twin



Conworth Engine based 3D Smart Factory Control Solution

- Sol Supports multi-user access based on proprietary GPU sharing technology
- Sol Operates on web/app with 3D rendering regardless of device performance
- Sol Enables real-time control from anywhere with wireless network connectivity

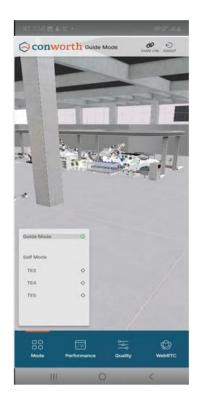


Business Model | PRODUCTS 1.3D Engine - Application Cases

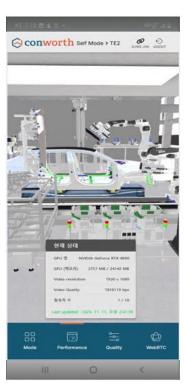
(https://www.youtube.com/watch?v=j1zvy38Sq0M)

Multi-User SSR (Conworth Engine) Based Digital Twin

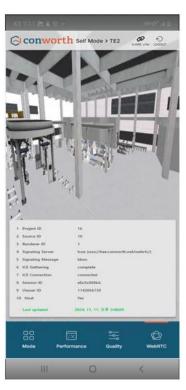
- Process and cooperative robot animation for digital twining
- Visualization on mobile device
- Different mode(section) supports (TE2, TE3, TE5 etc.)



Mode selection



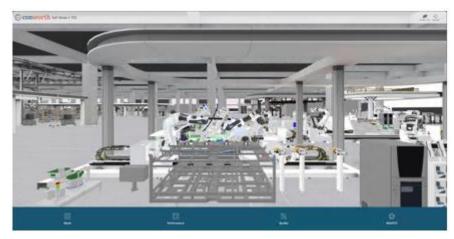
Performance check



WebRTC condition



TE2



TE5



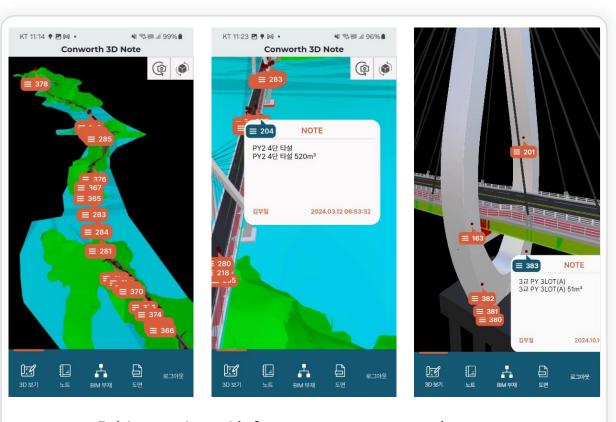
Business Model | PRODUCTS 2. Conworth 3D Note (SaaS)



Conworth 3D Note (App) - Provides 3D collaboration functionality by accessing BIM data using a smartphone

(https://www.youtube.com/watch?v=e0s1W0fW3IE)





Bridge and road infrastructure construction case



Business Model | PRODUCTS (

3. Business Solutions (SI)



H-Eagle: High-quality 3D contents visualization (https://youtu.be/zoxCgElhilM?si=eVIQbvWQKvbqFxSp / https://youtu.be/HTI-VAEwkdA?si=JppSPdRayoD5hwdz)







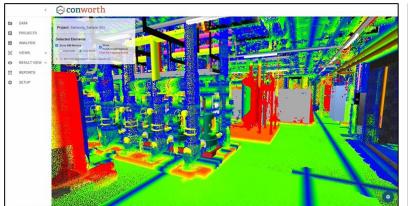
Gounsa Temple's Yeonsujeon, lost in the 2025 wildfire in North Gyeongsang

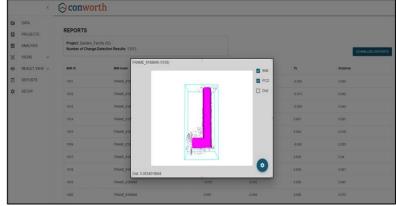


Business Model | PRODUCTS (

3. Business Solutions (SI)

Design-Construction Consistency Analysis solution: enabling comparative analysis between BIM models and large-scale point cloud data (https://youtu.be/Xz4XagYHj-A?si=Q9c6PaLop5sc_PmM)

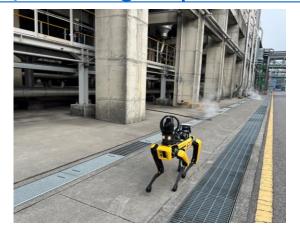


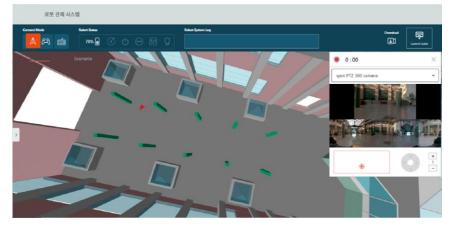


Overall Consistency Analysis Result

MEP Component-Level Analysis Result

R-Eagle: Quadruped robot (Boston Dynamics SPOT) based Robot Patrol & Control System for site management (https://youtu.be/rEll8uHo11g?si=9pUYFiJLckv-VwTv)







Market Strategy | Go-to-Market Strategy & Current Progress

Incheon Metropolitan City

MOBIS SAMSUNG SDS

Stage Initial Relationship **POC/Pilot Projects** Stable Revenue Stream Conworth Identify needs for 3D DX Proven technology with **Expansion into Target Conworth Engine** through various channels **API Solution** customizable options Industries Engine WIDE Diverse market Change for the Next House State Annual Control 및 New 구식회사 피레타 E&C Clients & exploration through 국가유산청 HYUNDAI channel partners Korea Heritage Service **Partners GST** AutoEver Ministry of Environment **Customer Engagements** PoC-based validation of Project expansion via Modular SaaS solutions 3D Note through Open Innovation Technology and Value Follow-up contracts Medium Tight Collaboration & Clients & 국가철도공단 **Market Diversification Partners** HYUDDAI KOREA AIRPORTS 3D **Customer Relationships** Verifying On-Site **Additional Contacts** Company-wide solutions through various channels Effectiveness Solutions **DEEP SAMSUNG C&T Business expansion** HYUNDAI **WKOLON GLOBAL CORP.** Clients & through close **O** LOTTE E&C **Partners** cooperation **LG Chem**



Team | Core Team Members

Founder



CEO

- Professor, Yonsei University
- CTO & Partner, Forest One, Inc. (later Lanworth Inc.)
- Ph.D. University of Wisconsin– Madison

Dr. Joon Heo



Thomson Reuters Acquires Lanworth

On August 17, 2011, Thomson Reuters acquired internet software and services company Lanworth from The Westervelt

Acquisition Highlights

- o This is Thomson Reuters' 1st transaction in the Internet Software and Services sector.
- o This is Thomson Reuters' 22nd transaction in the United States.
- o This is Thomson Reuters' 3rd transaction in Illinois.

| M&A DEAL SUMMARY | | |
|------------------|---------------------------------|--|
| Date | 2011-08-17 | |
| Target | Lanworth | |
| Sector | Internet Software and Services | |
| Buyer(s) | Thomson Reuters | |
| Sellers(s) | The Westervelt | |
| Deal Type | Divestiture | |
| Advisor(s) | InterOcean Advisors (Financial) | |

- The CEO has startup experience in the United States (Forest One, Inc.)
- Possesses networks related to overseas VC as well as potential clients
- Core team consists of six Ph.D. holders with world-class expertise in 3D, graphics, and server technologies.
- The company is operated with global B2B expansion from the outset.



Graphic Lead

- · Professor, Konkuk University
- SIGGRAPH ASIA, XR Chair
- Researcher, Geneva University
- Ph. D. KAIST Computer Science

Dr. Hyungseok Kim



Server Lead

- Professor, Tech. University of Korea
- NCSOFT MMO Team Lead (Afterlife, Blade & Soul)
- Ph. D. KAIST Computer Science

Dr. Naihoon Jung



Sr. Graphic Engr.

- Researcher, SKKU Institute of Intelligent System
- Researcher, Stuttgart University
- Ph.D. Kyungbuk National University Computer Science

Dr. Sangok Koo



Geomatics (3D) Lead

- Sr. Engr. Northwest Geomatics (A Hexagon Company)
- Researcher, York University
- Ph.D, University of Calgary

Dr. Kiin Bang



Sr. Multimedia Engr.

- Software Engr., LG Electronics (Smart Factory Division)
- IPTV encoder Server developer, Galaxia Communications
- BS KAIST Computer Science

Jihoon Lee



Tech. Development

- Researcher, Hong Kong Polytech University
- Smart Construction Expert
- Ph.D. Yonsei University

Dr. Sungha Ju



Plans | Global Expansion Plan

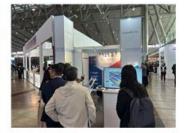
International Market Entry

- Direct Client Contacts: Intel Fab in Ohio, Samsung Fab in Texas, DPR Innovation, etc., NNE in Denmark
- EXPO and Conferences: Geoweek EXPO, ENR FutureTech, etc.
- Building Channel Partner Network: USIBD, Boston Dynamics, etc.
- Connecting VCs and Accelerators Network











Conworth's Booth at 2024 Geoweek EXPO and 2024 InterGEO

International Investment

Direct Engagement with Potential Clients and Investors

 Held meetings with Novo Nordisk Engineering (NNE) in Denmark focusing on Design-Construction Discrepancy Checking





Engaging International VCs

 Held meetings with GSV Lab and engaged with private VC networks such as StanleyX





GSV Lab - Conworth



Plans | Global Expansion Plan

Global Expansion Programs

- KDB NextONE Cohort 11 (Selected July 2025)
- Conworth is leveraging the global network of KDB's Silicon Valley VC branch, as well as venture hubs in Singapore and London.
- Through this program, Conworth receives tailored consulting and global market entry support, enabling effective overseas marketing and new business opportunities.





- Global Accelerating Program (GMEP, June-November 2025)
- Conworth was selected by the Ministry of SMEs and Startups as a representative company in the Land, Infrastructure, and Transport sector for the Global Accelerating Program (GMEP).
- From November 2025, the company will participate in a four-week European
 expansion program based in Germany and Finland. The program supports business
 model validation, IR training, and local business meetings, while also creating
 synergies through collaboration with European networks.





- Global Corporate Collaboration Program Microsoft Ma-Jung (April-November 2025, KRW 1.5B)
- Conworth was selected for Microsoft's Ma-Jung Program, a cloud-based B2B solution collaboration initiative. The company is currently developing SaaS versions of its solutions on Azure Cloud, aiming to directly deliver and maintain Conworth's 3D visualization solutions in global markets.



Plans | U.S. Expansion Plan

Leveraging U.S. VC, Accelerator, and Channel Partner Networks

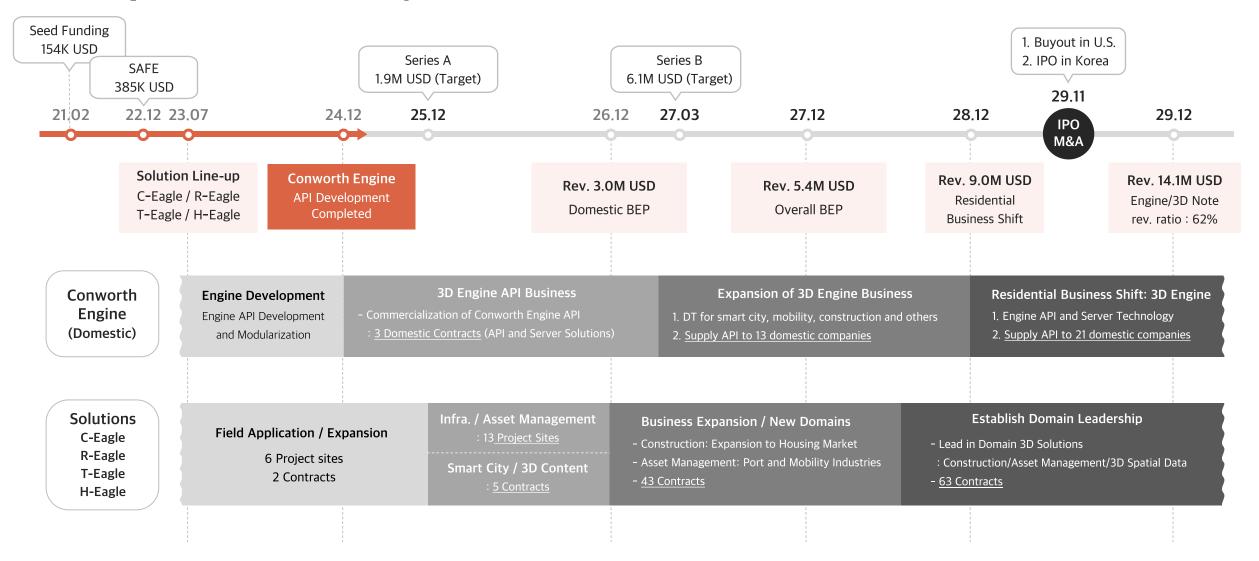
- CEO Joon Heo brings prior experience as a CTO at a U.S. venture company and has established strong connections with multiple VCs, accelerators, potential customers, and strategic partners in the United States.
- A long-term business trip across major U.S. cities is planned to strengthen technology collaborations, fundraising opportunities, and networking.

| Location | Key Activities | | |
|-----------------------|---|--|--|
| I A oron | USC Visit (Los Angeles): Meeting with Prof. Cyrus Shahabi (Computer Science Department) USIBD Meeting (Tustin): Meeting with the President of USIBD to explore the use of 3D Note and establish networks with construction companies SoCal Group Meeting: Networking with key investors | | |
| LA area | DPR Meeting (Newport Beach): Discussion with the Head of Innovation on applying cutting-edge construction technologies Peachscore CEO Meeting: Requesting support for investment and networking Hanwha Q Cells Visit (Irvine): Exploring collaboration opportunities for solar facility management Hyundai Engineering Visit (Santa Ana): Discussion on facility management collaboration | | |
| San Francisco area | Plug and Play Meeting: Discussion on support opportunities. Rivian Meeting: Discussion on applying digital twin technology to EV operations. Stanley X Meeting: Exploration of construction technology innovation opportunities. GSV Labs Visit: Pre-arranged presentation and investment discussions. Meeting with Dr. Eunhwan Shin (Tech Evangelist): Promoting networking with Bay Area VCs. Meetings with VCs and Tech Experts (Yogesh Agrawal, Shaile Verma) Brick & Mortar Ventures, Concrete VC Meetings: Investment discussions | | |

| Location | Key Activities |
|--------------------------|--|
| Minneapolis & Chicago | Meeting with VC Mark Moe: Discussion on potential investment opportunities. Meeting with Prof. Yao-Yi Chiang (University of Minnesota): Research collaboration and academic networking. Meetings with Construction, Manufacturing, and Facility Management Companies (including firms introduced by Mark Moe) Construction: Mortenson Construction, Kraus-Anderson, McGough Manufacturing (Medical): Boston Scientific, Medtronic, Abbott Labs Manufacturing (Food Processing): General Mills, Land O'Lakes, Cargill |
| Mississippi area | University of Southern Mississippi Visit: Meetings with Henry Jones and Clark Love to discuss potential investment opportunities (former co-founders) VC Network Meetings: Engagement with Mississippi-based VCs (The Syndicate, Mark II Ventures Gulf Blue Navigator) Meetings with Local Companies: Discussions with construction, manufacturing, and petroleum-related firms in Mississippi |

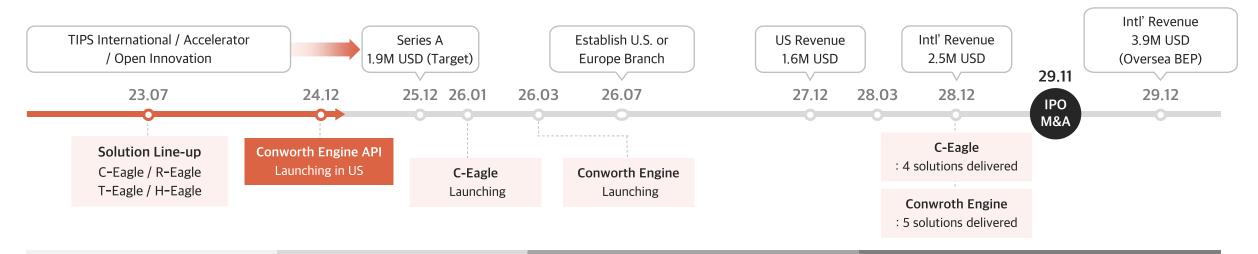


Plans | Domestic Roadmap





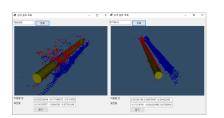
Plans | U.S. Roadmap



Direct Client Contacts (C-Eagle) Connecting VC/Accelerator (CEO Personal Network) 3 Channel Partners (C-Eagle / Conworth Engine API) 4 Conworth Marketing Team (Solutions and Conworth Engine API)

Intel / Samsung FAB

Design-Construction Discrepancy Checking for Quality Construction (POC and Open Innovation)



VC/Accelerators

Connecting GSV Labs, StanleyX, Plug&Play, and other VCs



Building Partner Network

Channel Partners Through Conferences/Expos (AEC Next Technology, Geoweek)



The control of the co

Building Marketing Funnel

Go-to-market Strategy and Execution of Each Solutions and Conworth Engine

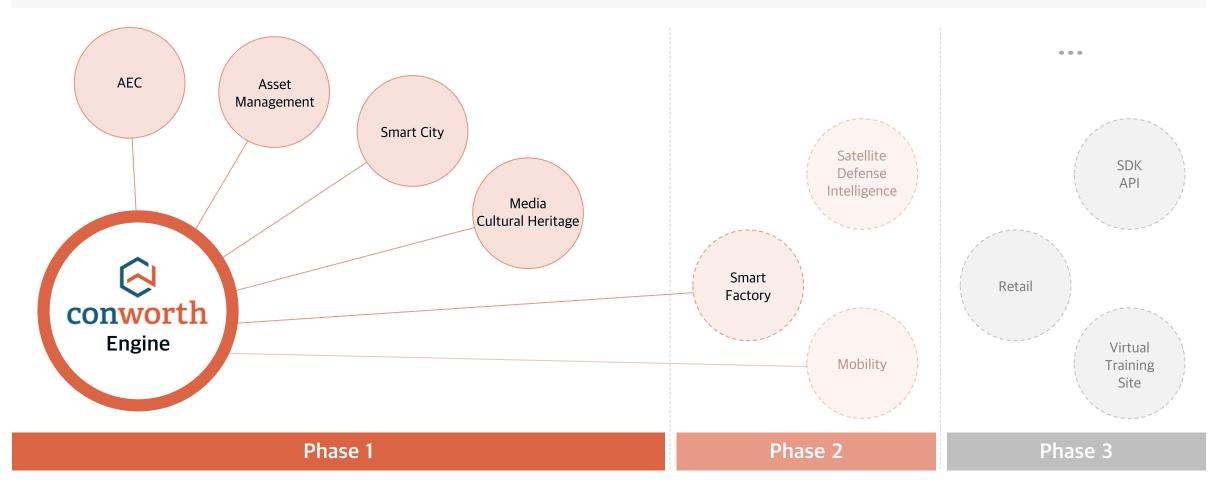




Plans | Domain Expansion

Next Phases

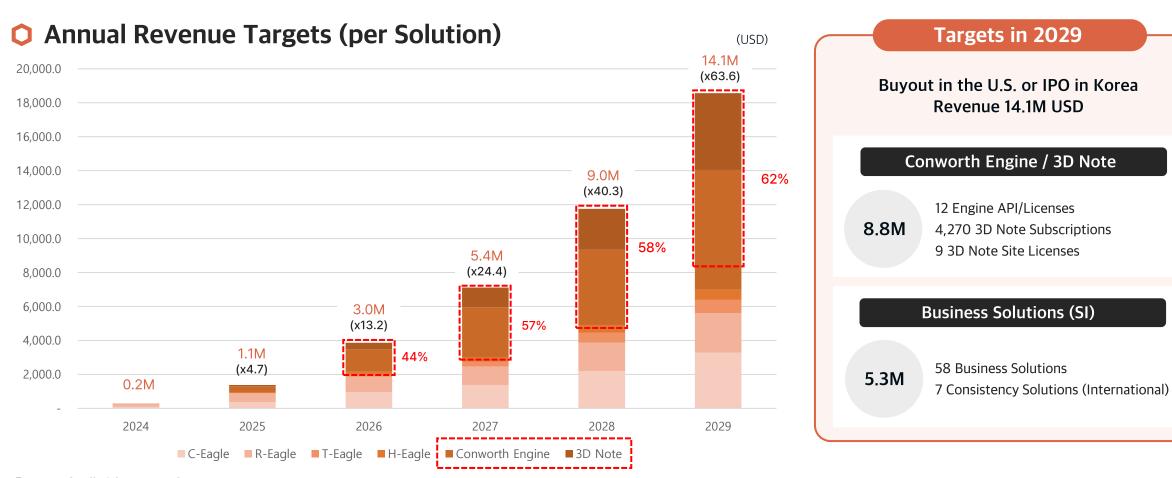
Beyond the current domains, target markets will be expanded into various fields such as Smart Factory, Mobility, Satellite/Defense/Intelligence, Retail, SDK/API and others.





Plans | Target Revenue

Based on technology-intensive Conworth Engine, we offer engine API business and five solutions (C-Eagle, R-Eagle, T-Eagle, H-Eagle, 3D Note) and are actively entering the rapidly growing 3D virtualization market to expand revenue, and target a buyout/IPO in 2029.



Conworth offers unprecedented 3D data solutions.



Homepage: conworth.io

E-mail: contact@conworth.io

Appendix

- 1. Patent Holdings Status
- 2. Revenue and Cost Planning





Appendix | Patent Holdings Status





Appendix | Certification Holdings Status





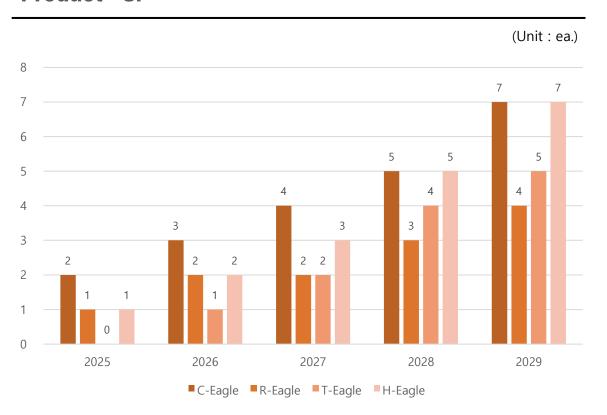






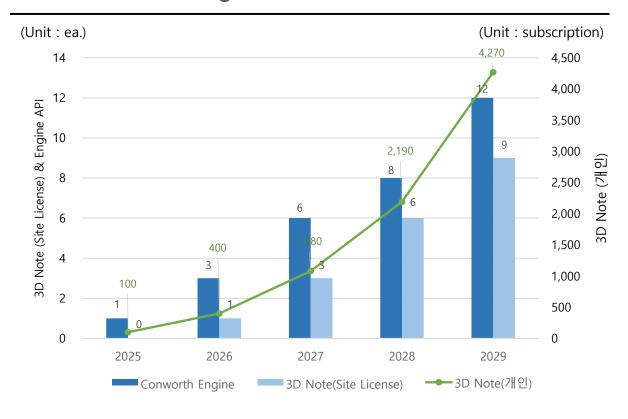
Sales Plan by Products

Product - SI



- 23 new SI solution contracts (20 domestic / 3 overseas) in 2029
- Cumulative total of 65 SI contracts (58 domestic / 7 overseas) in 2029

Product - SaaS & Engine API

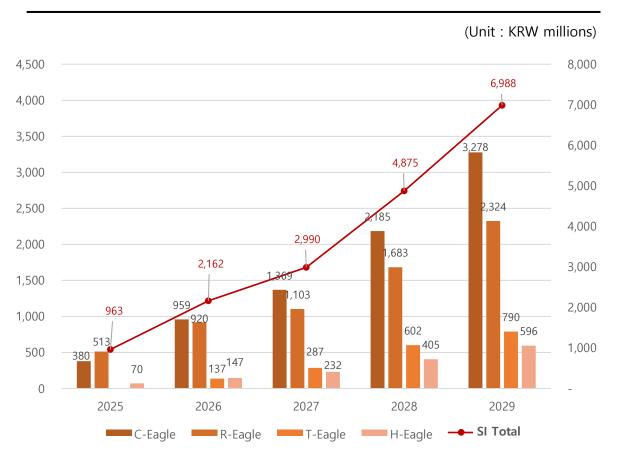


- 4,270 3D Note users and 9 Site License field contracts in 2029
- 12 new Conworth Engine API contracts in 2029

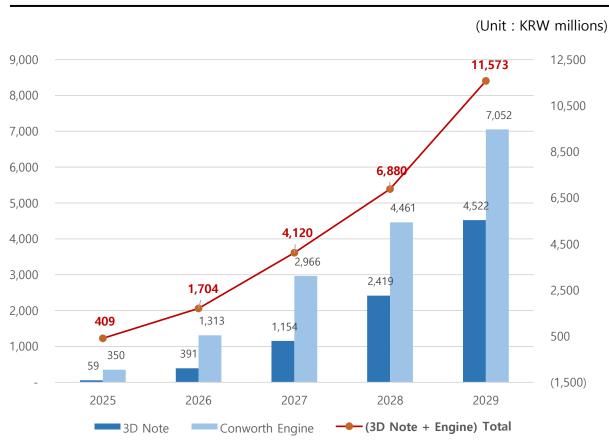


Q Revenue Plan by Products

Product - SI



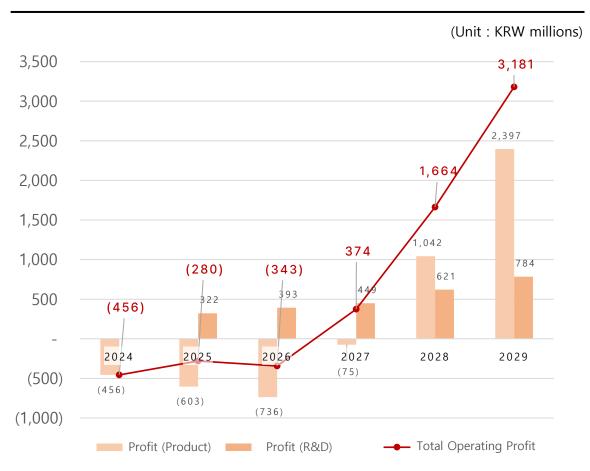
Product - SaaS & Engine API



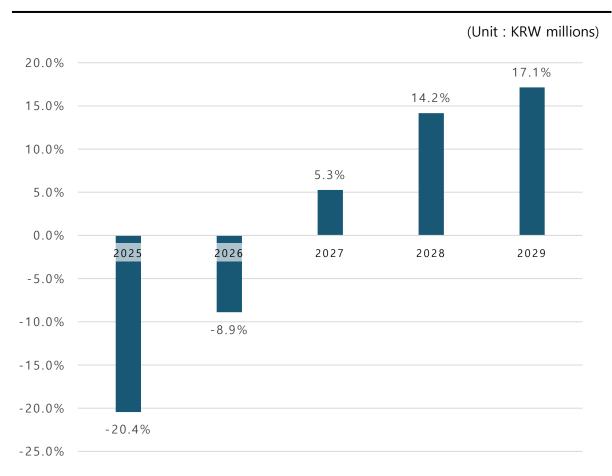


Operating Profit (Domestic + International)

Total Operating Profit

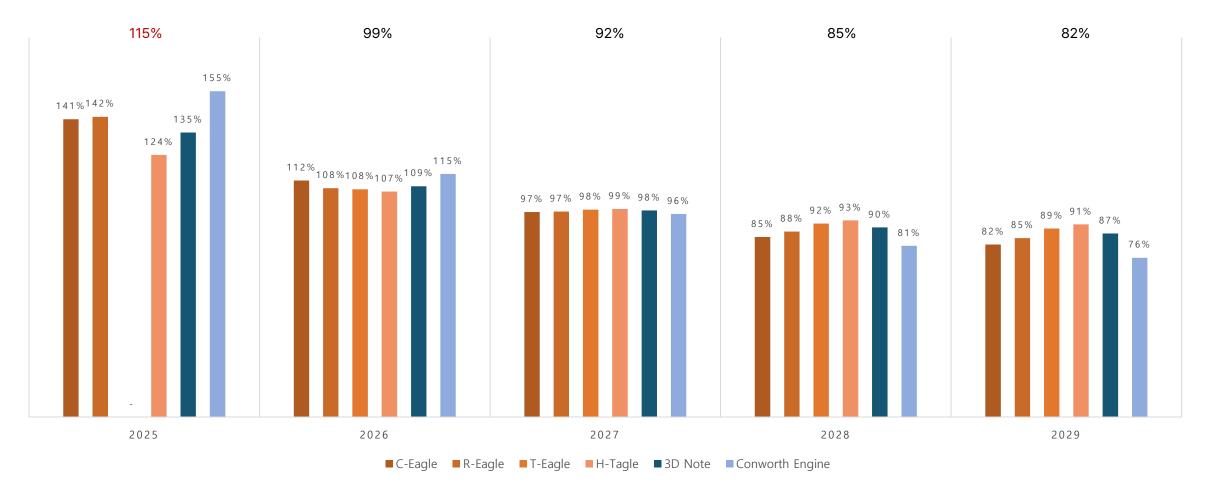


Operating Profit Margin (%)



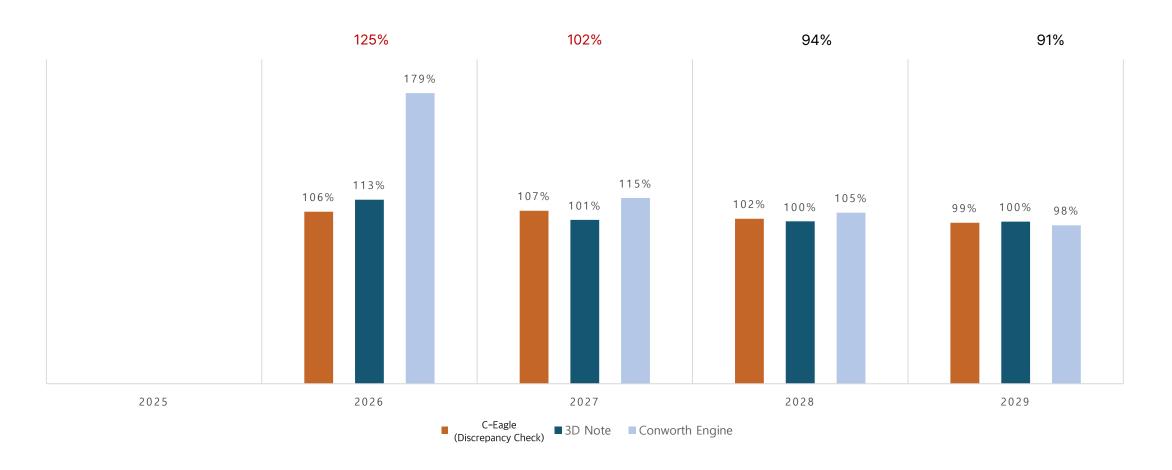


Cost Plan by Products (Domestic)





Cost Plan by Products (International)

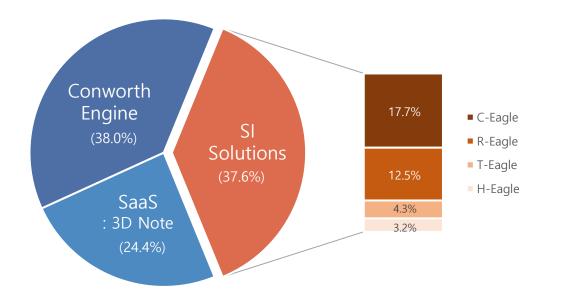




Sales Ratio by Products (2029)

(Unit: %)

Domestic + International Product Sales Ratio in 2029



• Domestic sales of 13.4 billion (72%) / overseas of 5.2 billion (28%) in 2029

