



March 21, 2024
MetaReal Corp.
MATRIX Inc.

News Release

MetaReal Group subsidiary MATRIX launches AI-powered contract development solution that can automatically generate digital twins

MetaReal Corp. (Headquarters: Chiyoda-ku, Tokyo, Representative Director: Junichi Goishi) announced that its subsidiary, MATRIX Inc. (Headquarters: Chiyoda-ku, Tokyo, Representative Director: Junichi Goishi) will start providing an AI-powered contract development solution that can easily generate photorealistic digital twins (*2) from videos taken with smartphones through Gaussian Splatting (*1), a next-generation 3D spatial construction technology. It is intended for use in industries such as construction, engineering, real estate, and manufacturing.

Existing methods for constructing digital twins use a combination of 3D laser scanning and planar captured images, but the former has problems in terms of time and cost, and the latter has limitations in terms of perspective and field of view. Using the latest Gaussian Splatting technology to automatically generate realistic digital twins from video taken with just a smartphone—without any special equipment or effort—overcomes these hurdles.

MATRIX developed and operates Metaverse space-sharing platform [DOKODEMO Door], which features real 360-degree video. Through the operation of this platform, the company has received various requests and inquiries about Metaverse development from corporate clients, and this AI technology envisions the following use cases as examples:



Viewing of real estate properties
VR property viewing from anywhere in the world, just as if you were actually there



Confirmation of planned bridge construction in mountainous areas
Bridges generated from drawings are created in a VR environment from video, and can be experienced as they will appear after completion



Spool diagram review of plant design
At the plant design stage, realistic completed forms of plans can be confirmed in a VR environment from 2D drawings



Prior confirmation of equipment installation in factories
Installation positions of factory equipment can be confirmed before completion

Inquiries about development contract development:

[Inquiries | MATRIX](#)

*1: Gaussian Splatting is an AI-based 3D spatial reconstruction method announced in 2023 that can more easily and quickly generate 3D images than existing technologies such as photogrammetry and NeRF.

*2: A technology that reproduces environments and objects that exist in the real world in a VR environment.

■ About MATRIX Inc.

Established in September 2020 as a subsidiary of MetaReal Corp. (formerly Rozetta). Developer of Metaverse and AI technologies. With a corporate vision of "eliminating disparities and discrimination in the old reality, such as borders, language barriers, physical differences, knowledge gaps, and all other obstacles." The company has developed and operates the reality and Metaverse space-sharing platform DOKODEMO Door.

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