



The Development of a Real-Time Metaverse Mapping Platform to Address Global Social Challenges

It can be used for social infrastructure development, maintenance, and disasters (Patent Pending)



We announce the development of a metaverse mapping platform that transcends geographical and language barriers. Developed in collaboration with companies in the UAE, this platform provides a highly realistic map-based foundation for a borderless digital environment, with broad applications in social infrastructure, maintenance, and disaster response.

With 30 years of experience in car navigation systems and GPS technology, and an additional decade dedicated to embedded AI development, our company has accumulated extensive expertise in location-based technologies. By integrating these capabilities, we introduce a real-time, map-based metaverse platform that is distinct from generative AI, offering exceptional precision and realism.

This platform creates an accurate virtual space that mirrors the real world, enabling seamless cross-border and cross-linguistic experiences. Designed for applications in business, education, disaster p

revention, and urban planning, it serves as a foundational infrastructure for global collaboration in addressing critical social issues. Specific use cases include disaster preparedness training, educational simulations, and urban planning models. Additionally, by utilizing diverse map data, the platform supports solutions for urban and environmental challenges.

By seamlessly connecting reality with the digital world, we aim to redefine interactions between people and businesses, unlocking new opportunities for the future.



Background and Vision

Our company has a strong track record in car navigation and GPS technology development. Over the past decade, we have focused on embedded AI solutions, advancing sophisticated geospatial data analysis techniques. This expertise enables us to pioneer a metaverse platform that closely replicates real-world environments.

Vision of the Project

The vision of this project is to realize a “fusion of reality and virtual space” that seamlessly connects the world and reality, transcending borders and language barriers. Utilizing highly accurate map data, embedded AI technology, metaverse technology, and blockchain, we will build a platform that allows users to seamlessly move between the real world and metaverse space. This metaverse is not j

ust a virtual space, but aims to be a “realistic virtual space” that reflects real-world conditions, and its strength lies in its precise expressiveness, which is different from that of generative AI. Our goal is to contribute to society with a view to utilizing this technology in diverse fields, such as disaster prevention training, education, and urban planning simulations.

Addressing Social Challenges

This project is dedicated to addressing critical societal issues in the following key areas:

Disaster Prevention & Emergency Response

The platform enables disaster preparedness training and real-time emergency simulations, enhancing response strategies for earthquakes, floods, and other natural disasters. Virtual evacuation drills improve community resilience and safety awareness.

Education & Training

The platform provides immersive learning experiences, enabling users to explore urban infrastructure, traffic systems, and specialized fields such as architecture through simulation-based training.

Urban Planning & Traffic Management

Advanced simulation tools assist city planners in optimizing infrastructure, including sewer systems, gas pipelines, and road networks. By analyzing real-world data, the platform helps mitigate traffic congestion and environmental concerns.

Environmental Sustainability

By leveraging geospatial data, the platform supports initiatives such as urban greening projects and energy consumption optimization, contributing to sustainable urban development.

Additionally, we provide a robust platform for Play-to-Earn (P2E) applications, integrating GPS, 2D, and 3D maps for immersive experiences.

Our Goal

By merging advanced mapping systems with AI technology, we are building a next-generation meta-verse platform that bridges the physical and digital worlds, fostering seamless global interactions. This project is more than just a virtual space—it is a transformative tool designed to tackle real-world challenges and establish a future-oriented digital infrastructure.



Project Origins and Strategic Partnerships

Our company has consistently introduced innovations in navigation and GPS technology, expanding the potential of map-based solutions. Recognizing the evolution of metaverse technology and the diversification of modern lifestyles, we have explored the integration of real-world mapping with virtual environments.

Our collaboration with leading companies in the UAE marks a significant step in realizing this vision. Dubai's forward-thinking approach to urban development and adoption of cutting-edge technologies provide an ideal foundation for developing a metaverse platform that accurately mirrors the real world.

This initiative is not merely about creating a virtual space—it is about developing a borderless platform to address pressing social challenges. By enabling real-time disaster simulations, enhancing urban planning strategies, and revolutionizing education, our project aims to drive meaningful change. Additionally, the platform will contribute to environmental and infrastructure solutions, reinforcing its role as a critical tool for sustainable development.

By combining our technological expertise with a visionary approach, we are advancing the development of a next-generation metaverse mapping platform. We are confident that this project will unlock new possibilities for society, fostering global connectivity and innovation.

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Cyber Impress Human CO.,LTDのプレスリリース一覧

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