VEC

MetaCity: Liverpool

A unique digital twin of a city region for supporting informed decision-making, using cross-sectorial data and information

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What is MetaCity Liverpool?

A city-scale digital twin, Meta Liverpool features interoperable, real-time rendered virtual communities, services, and tools that are accessible synchronously and persistently for purposeful use by an unlimited number of users, each experiencing a unique sense of presence and seamless data continuity.

By integrating diverse datasets from across the city, the platform generates a wealth of information that offers unparalleled transparency and insight into the Liverpool City Region.

Access to this data empowers businesses and governments to make better-informed decisions, gaining a competitive edge that results in streamlined processes, enhanced efficiency, reduced service costs, and, ultimately, accelerated economic growth.

With innovative data, businesses can make better-informed decisions that are supported by pragmatic evidence and insights, gaining a competitive edge. This can result in improved efficiency and streamlined processes, reducing waste, improved living, increasing productivity, and identifying new revenue streams and opportunities for growth.

Benefits

Meta Liverpool is a flexible, cloud-based platform that is easily accessible and highly adaptable, with the potential for expansion and application in other locations.

Its comprehensive suite of tools and data-driven capabilities makes it an invaluable asset for urban planning, sustainable development, health care and heritage preservation.

By enabling informed decision-making and fostering economic growth, Meta Liverpool paves the way for cities to become more resilient, sustainable, and connected.

Features

State-of-the-Art 3D GIS Analytics Platform

A powerful 3D GIS data platform, compatible with Cesium and powered by proprietary digital architecture developed by the Virtual Engineering Centre, enabling advanced geospatial visualisation, modelling, and analysis.

High-Resolution Scanning of Liverpool

Covers 210 sq km of the Liverpool City Region, including Freeport areas, using photogrammetry and LiDAR with ±3 cm spatial accuracy, providing a detailed and reliable data source.

Broad Industry Applications

Suitable for diverse sectors, supporting tasks such as investment planning, social housing development, air quality monitoring, city event coordination, and emergency response.

Enhanced Government Decision-Making

Provides essential data insights for government agencies to make informed decisions in areas like infrastructure development, healthcare planning, housing policy, environmental management, and beyond.

Contact us

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