RP1 Spatial Fabric
The Universal Map of the Open Metaverse

Every company building in 3D is doing it alone, creating isolated digital twins and virtual spaces that don't scale or connect. Real-time, multi-user 3D environments are still out of reach for most. Top walled-garden 3D platforms support only a few dozen concurrent users - nowhere near the scale required for a single connected metaverse.

The RP1 Spatial Fabric solves these problems with a universal 3D map system that powers real-time interaction and unlimited scale for the open metaverse, including a 1:1 digital twin of Earth and our solar system. It provides all the underlying services required for feeling presence and interaction: spatial audio, networking, avatars, and real-time synchronization - all delivered at a scale thousands of times more efficient than existing technology.

Organizations can host their own 3D environments ("spatial fabrics") on their own servers and simply connect them to RP1's universal fabric. They retain full control and ownership of their data, content, and revenue, while RP1 provides the infrastructure to make those spaces work instantly, globally, and at massive scale.

Universal Map System
A live, shared digital twin of Earth and the solar system, connecting real and virtual spaces.

Unparalleled Scale
Supports Earth's population in one continuous ecosystem without limitations.

For Any Use Case
Powering everything from digital twins and AR overlays to entertainment, education.

Ownership & Control
Each company or creator can host their own 3D environments and services on servers, like websites.

Interoperability
Brands, cities, and schools can connect virtual environments to RP1's Spatial Fabric for universal access via any Open Metaverse browser.

AR-Ready Infrastructure
Built for the future of spatial computing devices. Intuitively transition between proximity-based XR spaces and services.

Build the Future of the 3D Internet.

Reach out for a private demo and become one of the first to build for an open spatial internet.