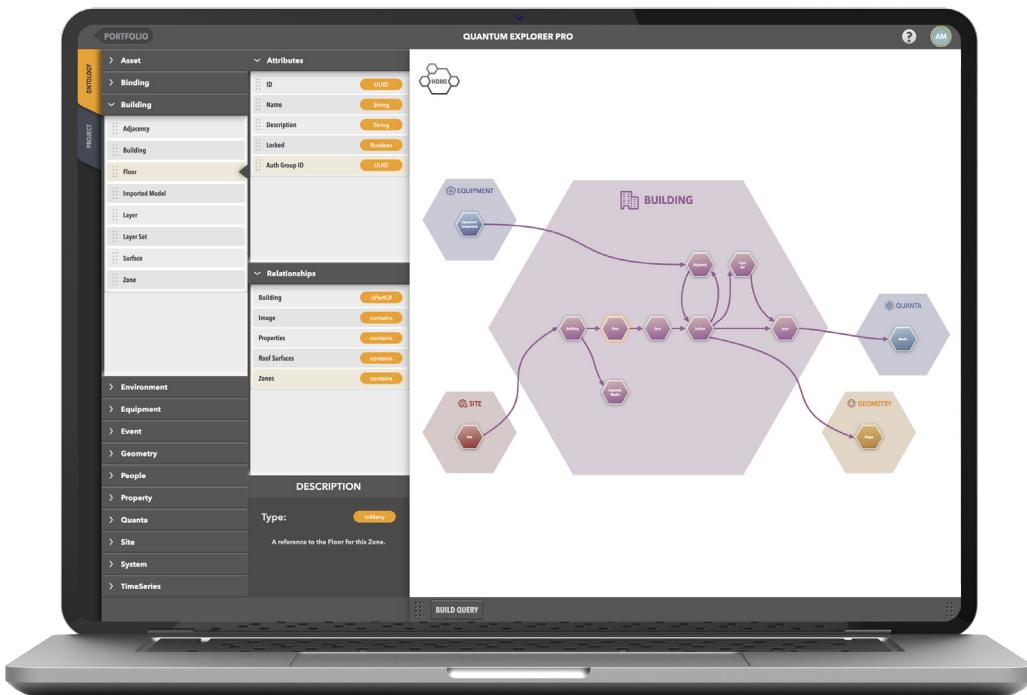




A Visual Guide to Quantum. A High-Level Open API for Buildings.

Quantum Explorer

The building industry is one of the largest in the world, yet it lacks a high-level open API and developer tools to make custom, affordable integrations. Enter Quantum Explorer® application and the Quantum API™. Explorer is a hierarchical visual guide to the domains, objects, and relationships that exist within the Quantum ontology. Its visual documentation format introduces users to the open Quantum™ Standard so they can leverage building data like never before. This solution enables non-programmers to query and inspect Quantum models and access digital twin AI inferences. The Quantum API finally gives developers a real integrated development environment (IDE) for digital twins, to create the next generation of applications for buildings. It's time that we scale the building industry for the growing market of PropTech, ConstructionTech, and ClimateTech companies that need simple and data-rich integrations for the built environment.

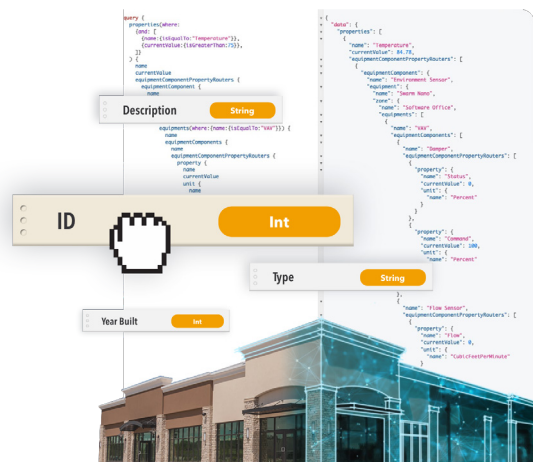


A Visual Building Ontology. Navigate and Explore.

The Quantum Explorer application provides a visual map of the built world—from a building's materials, to equipment, people, campuses, weather—and the relationships between all of these things. You can zoom into different layers of the interactive graph, choosing the level of focus most useful to you, and view physics-based data types in the Quantum standard. Navigate Quantum domains, objects, and relationships within the hierarchy, and visualize them in the Ontology Graph Explorer.

Query the Ontology. Quick, Real-Time Answers.

Visually build queries in seconds just by dragging and dropping Quantum components from the map or hierarchy into the Query Builder. Chain queries together to extract complex information contextualized just how you want. Since Quantum digital twins are direct representations of their real-world counterparts, the information in the app reflects the real-time state of the building.





Quantum Explorer

An Open Digital Twin Coding Environment. Write Once, Deploy Anywhere.

Generate code in GraphQL and use a visual IDE to interact with the open Quantum API. Developers can write once and deploy everywhere, eliminating the need for expensive one-off integrations just to enable analytics, ESG reporting, or corporate operational software for a stand-alone project. The Quantum Explorer application also tests your code, features a visual debugger for development, and provides object name autocomplete.

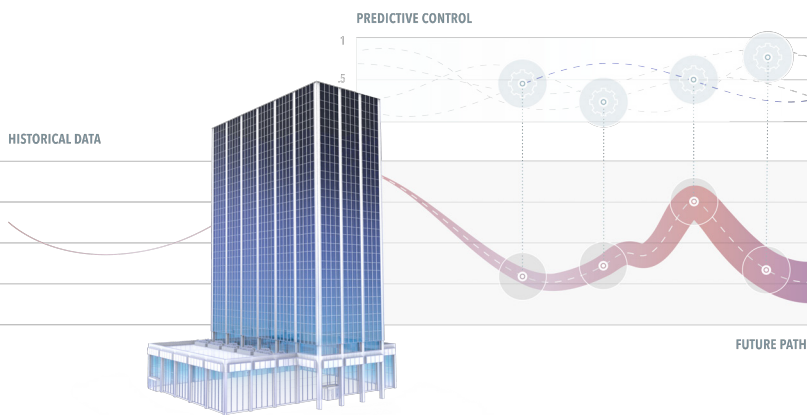
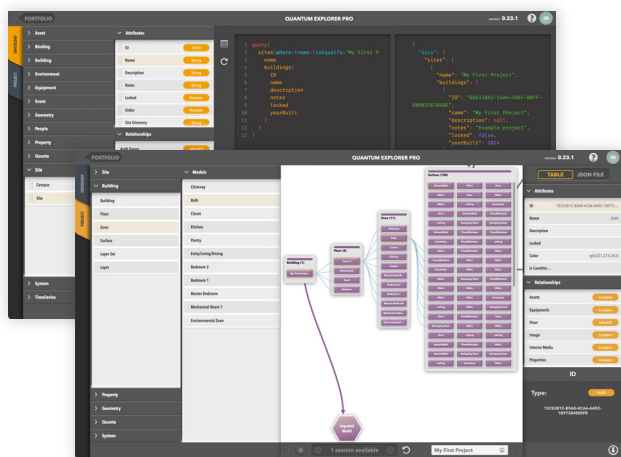


DIY Apps and Solutions. The Marketplace for the Built World.

You can develop against a suite of example or existing projects and apply those queries to any building within a portfolio. This makes it easy to build universal services and 3rd-party apps with the open Quantum API. Anyone can deploy solutions to customers and manage subscriptions. For in-house use, you can keep customized corporate services private, accessible only to those within a specific organization.

Goodbye Model Training. Hello AI Inference Answers.

With a complete digital twin model in place, the Quantum Explorer application can provide information about objects and relationships within the ontology that cannot be directly measured. For example, we can infer the temperature in a space with no sensor by using the recorded temperature from an adjacent room and the physics of building thermodynamics to calculate an approximation. This inferred value is then queryable through Quantum Explorer, like all parts of the Quantum model. Now you can have full visibility into your assets, even where you don't have full sensor coverage.



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System Requirements

To run the PassiveLogic Quantum Explorer web app, you need an internet connection and a browser. Google Chrome is recommended.