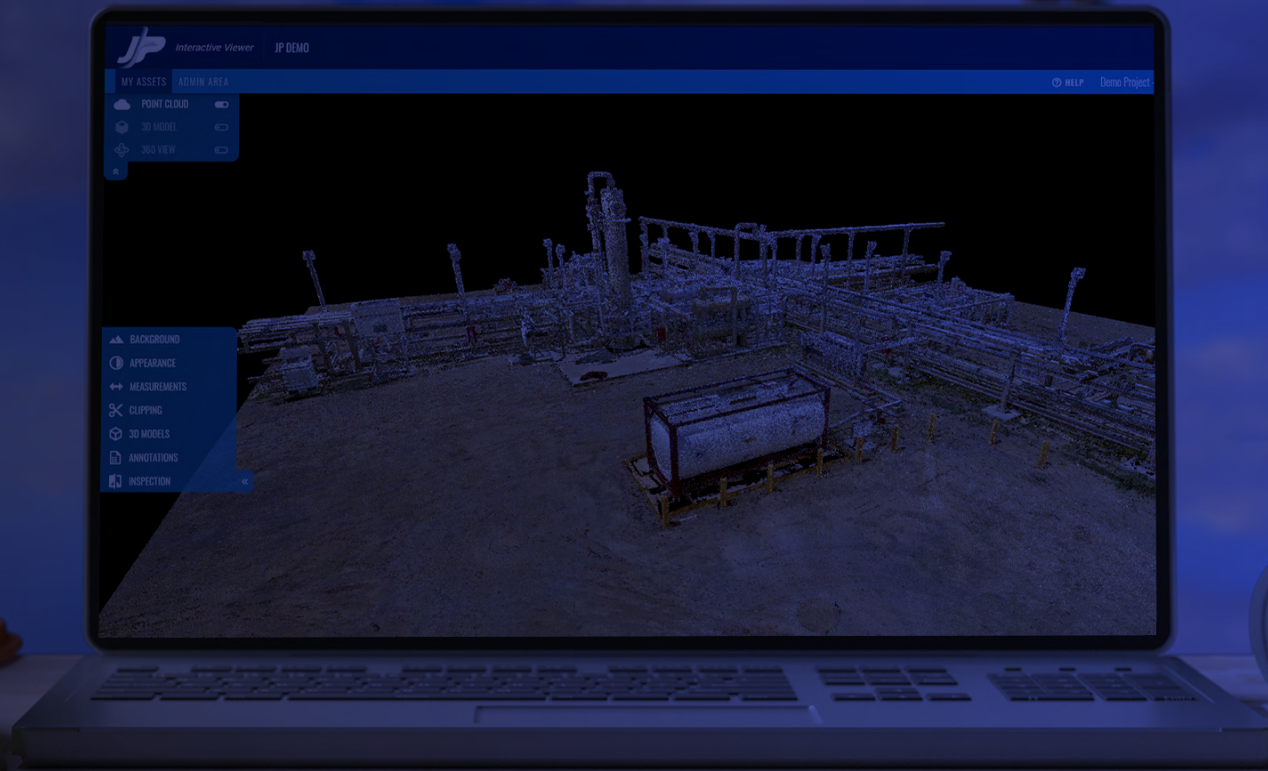


Maximize the Impact of Point Clouds With This Technology for Surveyors



No matter the facility, surveyors' clients all need an accurate, efficient process for streamlining builds and ongoing maintenance. Surveyors using 3D reality capture can accurately represent any kind of facility – from factories to offices – by generating point clouds. Point clouds are datasets that represent physical space.

Once a 3D capture is done, the resultant data is brought to digital endpoints via the point cloud. A seamless transition from scan to usable data requires visualization software.

Surveyors and Point Clouds

Point clouds are essentially numerical representations of physical space. Each point in the cloud represents a point in 3D space with coordinates and specific values. With enough of these points, an accurate 3D model can be made.

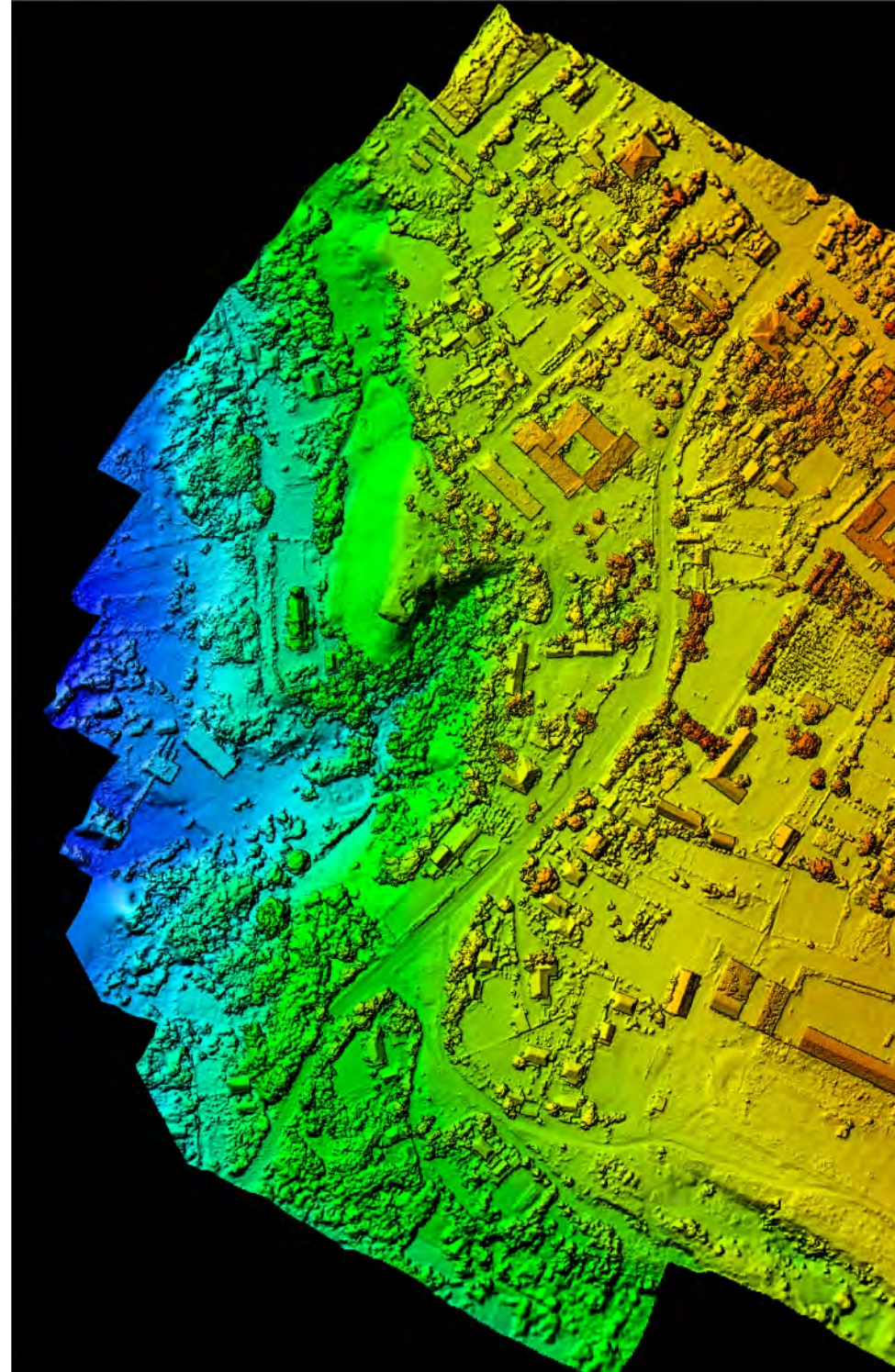
Because it takes millions of points to represent a real-world object, point clouds can be large. Not only that, point clouds need to be processed and turned into something human-usable. This means surveyors need a solution both for first processing then sharing point cloud data.



Accurate Mapping

Point clouds provide surveyors an excellent solution for producing accurate maps of 3D spaces quickly. These point clouds can be generated with any number of 3D reality capture methods.

In most commercial use cases, this comes down to LiDAR (light detection and ranging). These scans usually produce multiple point clouds representing sections of a space. To stitch these point clouds together to represent the whole space as one, a process known as point cloud registration is used.



Point Clouds Tell the Story

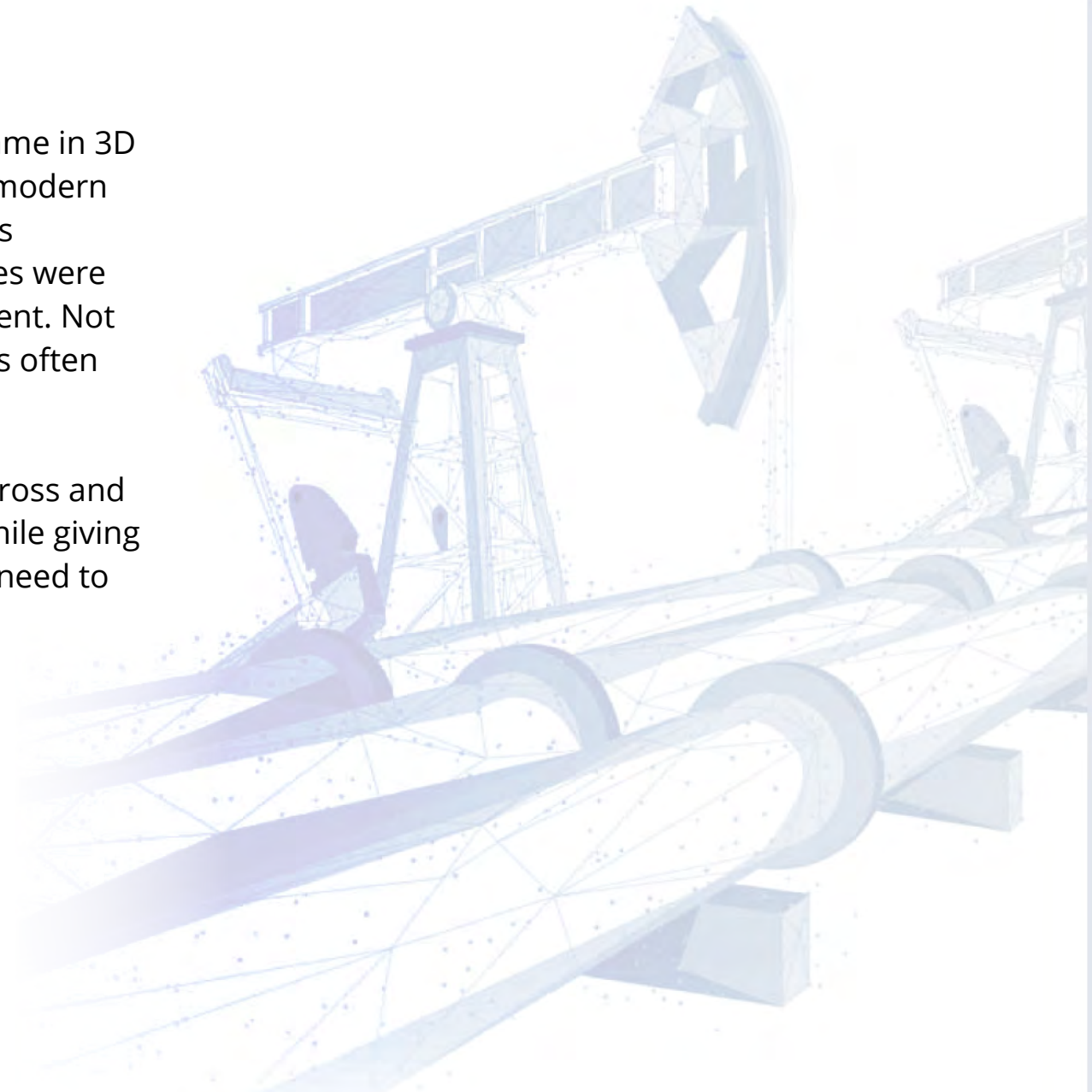
Surveyors can be called upon several times during the life of a project build and after to create new scans using terrestrial laser scanning, mobile laser scanning, or airborne LiDAR with drones or UAVs, helicopters, and airplanes. Each of these scans creates a new point cloud, which all parties can rely upon to tell the most current story of a build – including progress and changes.



Point Clouds: the Bridge to Accurate 3D Models

Accuracy and speed are the name of the game in 3D reality capture. 3D models are a must in a modern production environment, but early methods involving extended approximating processes were too time consuming to be considered efficient. Not to mention, data in proprietary formats was often impossible to share.

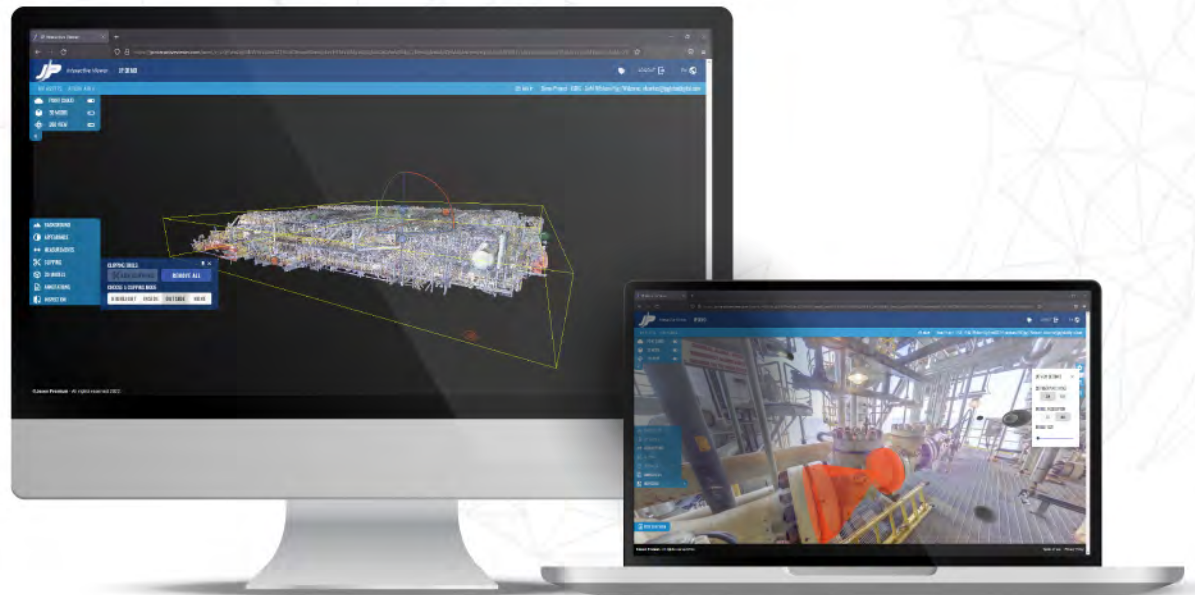
Point clouds provide the bridge to share across and the means to make accurate 3D models, while giving surveyors the efficiency and accuracy they need to stay ahead of the curve.



JP Interactive Viewer

The point cloud isn't the end of the line, however. Once a point cloud is generated, teams need a way to centralize data so everyone involved can interact with it.

JP Interactive Viewer is the software solution that makes point clouds useful to surveyors and their clients. 3D data sets can be uploaded into the software – enabling everyone involved in a project to view and interact with the space and data virtually.



Easy Interaction With 3D Models

JP Interactive Viewer enables surveyors and their clients to easily interact with point clouds, CAD/BIM files, and other 3D models. Once data has been uploaded to the software, JPIV allows surveyors, engineers, and clients to walk through a virtual space.

Information like operational data, as-is documentation, as-built and/or original design CAD models, facility changes, analytics and asset integrity, maintenance records, even operational and business KPIs is kept centralized and attached to facilities components – leaving no one out of the loop.



A Single, Web-Accessible Platform

JP Interactive Viewer's main applications include 3D data management, dynamic collaboration, virtual inspections, design and planning of modifications, and project information integration.

Teams can:



Leverage collaborative features like the annotation tool to improve communication flow.



Perform visual inspections anytime, anywhere, using just a web browser.



Overlay and visualize new components with BIM models, point clouds, and 360 images.



Integrate all project information and visualize, manage, and share projects with stakeholders in a single, web-accessible platform.

Leverage the Power of Point Clouds

JP Interactive Viewer helps surveyors leverage the power of point clouds to centralize and streamline data, improve communication, and help clients visualize projects. JPIV can reduce in-person trips to facilities, eliminate outdated or inaccurate data, and reduce overall costs by keeping everyone on the same page.

JP Interactive Viewer doesn't just help surveyors. It helps your clients manage facilities builds from day one, utilizing point clouds and this game-changing software for making point cloud data useful.



Get Started With JP Interactive Viewer

3D surveying is undergoing a revolution in efficiency and cost-effectiveness, all predicated on the use of point clouds – as long as there's an effective solution for processing point cloud data and making it useful to stakeholders.

After years providing survey data, JP Global Digital decided surveyors needed a robust platform to help point clouds reach their full potential. The result is the revolutionary JP Interactive Viewer. Now you can try JPIV for free.

Contact JP Global Digital today to start your free demo.

