

# ENHANCED DECISION MAKING THROUGHOUT THE PROJECT LIFECYCLE



USE CASE



EMPOWER YOUR DATA.  
ENHANCE YOUR INSIGHT.



## SOLV3D ENCOMPASS™ (ENCOMPASS) IS A WEB-BASED SOLUTION FOR EMPOWERING DATA CONSOLIDATION, VISUALIZATION AND COLLABORATION.

In today's fast paced world, developers require solutions that allow for better decision making along the project life cycle. From pre-condition surveys to post construction as-built; having good quality data available for the project team is critical.

### Asset Capture and Processing

Getting a complete project area data set can be difficult given the limited time and expansive nature of many project areas. Employing a third party or using in-house technologies such as mobile mapping, terrestrial scanning, UAV/drone or other sensor platforms ensures that the project area is collected to millimeter accuracies.

Often, the collection of data can be completely remote, mitigating risks associated with the site. Laser scanning allows the mapping to be done without the need of physical endangerment to take measurements with more conventional methods. These data sets include millions of points and can then be integrated with other information such as CAD, GIS and web data services.

Once the data is collected, it can be processed using your processing software or using SOLV3D engine™ (Engine) to remove any noise (cars, people, rain) and reduce the point cloud density to meet the needs of the team, then uploaded to Encompass to be shared and analyzed.

### Typical Workflow



## Saving Time and Money

Having the full project at the team's fingertips throughout the project life cycle allows for better decision making and provides context for continual scope changes.

As the project progresses additional CAD files, UAV data and point cloud information can easily be added to ensure the information is up to date and accurate and the overall scope clearly understood. and the overall scope is clearly understood. The number of site visits can be greatly reduced and the overall design process is much more efficient, streamlined and less time consuming, therefore cost savings are realized.

Although the data capture itself may seem cost-prohibitive the savings derived over the project life cycle often outweighs the initial cost (great return on investment). Some of the benefits found by our customers include:

- Reduced time and travel costs for site visits and data collection
- Increased decision-making power with more complete as-builts
- Decreased purchase redundancy across project teams
- Better risk mitigation throughout the project and warranty period

## The Challenge

To manage and share a large amount of disparate geospatial data across a variety of project areas and allow analytics across the data set.

## The Solution

Using a suite of products available from SOLV3D, users can process, clean and optimize their collected data using Engine and then share it among the greater project team with ease using Encompass.

## The Results

Reduced costs, time and risk throughout the project and more insightful decision making when talking to clients.

## Industries

- Energy and Utilities
- Government
- Mining
- Oil and Gas
- Transportation
- Infrastructure
- Engineering
- Urban Planning

## Uses

- Estimation
- Proposals
- Planning and Design
- Asset Management
- Compliance
- Customer / Public Engagement
- Client Success

## About Solv3D

SOLV3D is the creator of innovative software solutions for geospatial data processing, visualization and collaboration. The SOLV3D engine™ processing toolkit assists users in optimizing point cloud data for effective use within their applications and workflows. SOLV3D Encompass™ provides the ability to merge together a myriad of geospatial datasets in a single platform. Within a web-based environment, it enables all stakeholders to easily gain situational awareness and work together on projects, AOIs and assets, regardless of geographical location or level of expertise. [www.solv3d.com](http://www.solv3d.com)