

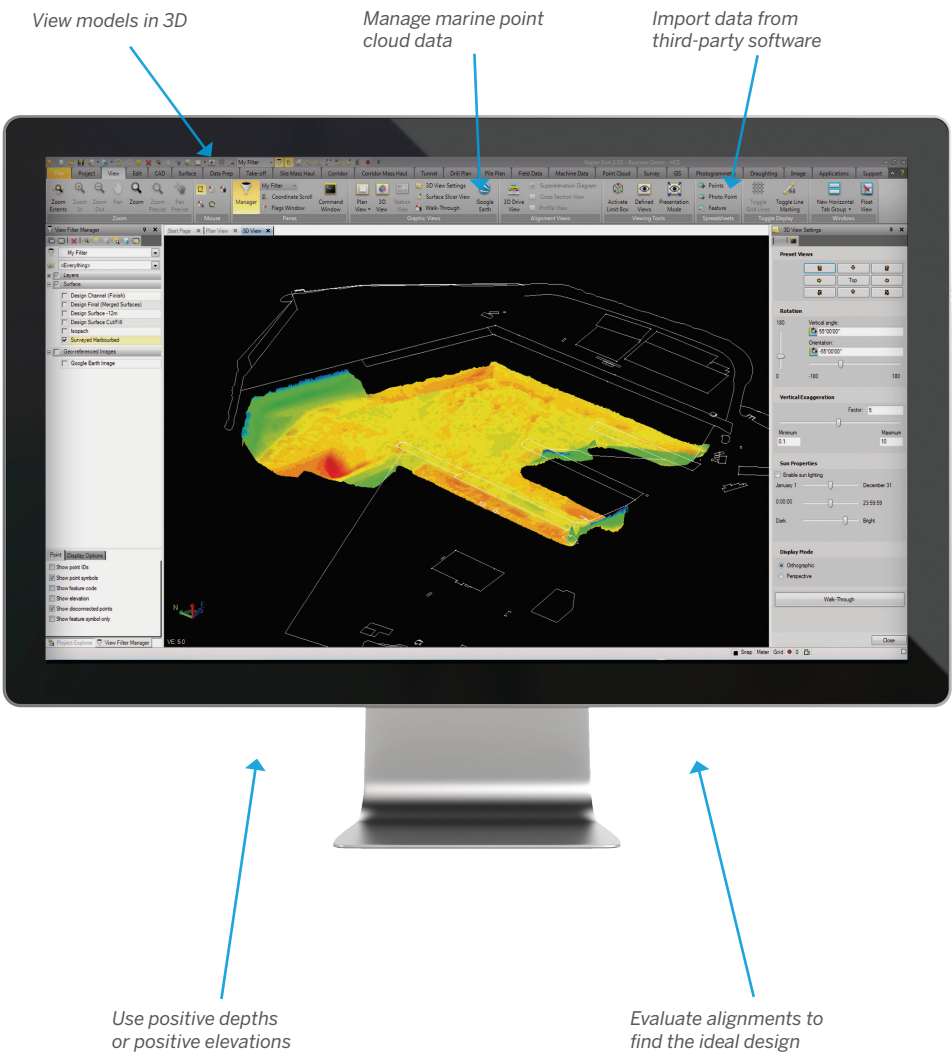


BUSINESS CENTER — HCE FOR MARINE PROJECTS

BUSINESS CENTER — HCE

Trimble's Business Center — HCE office software is ideal for many marine applications including;

- Hydrographic surveying
- Dredging surveys and volumes
- Large multi-beam data set management
- Marine and land construction design



Benefits

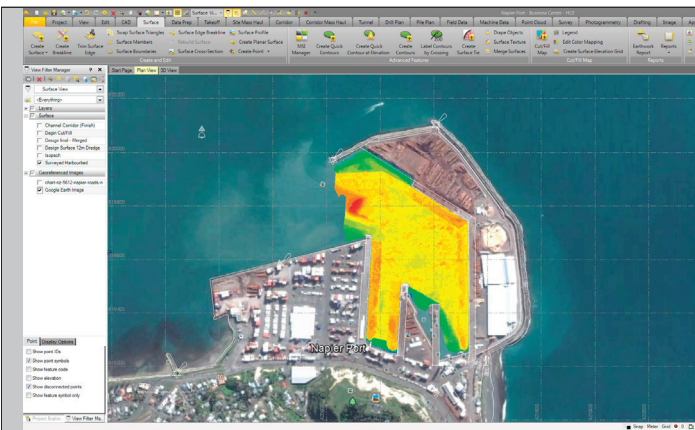
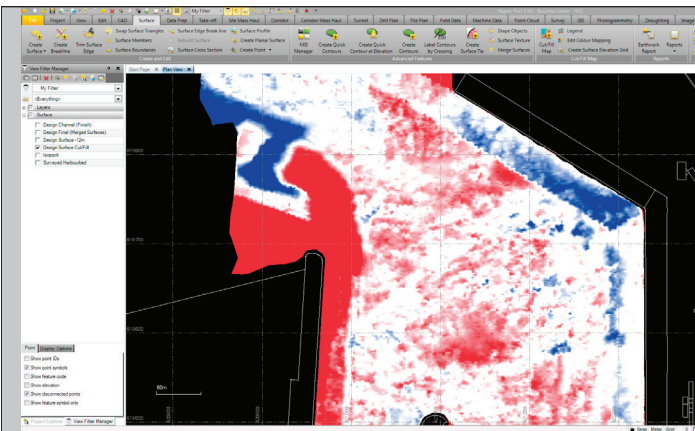
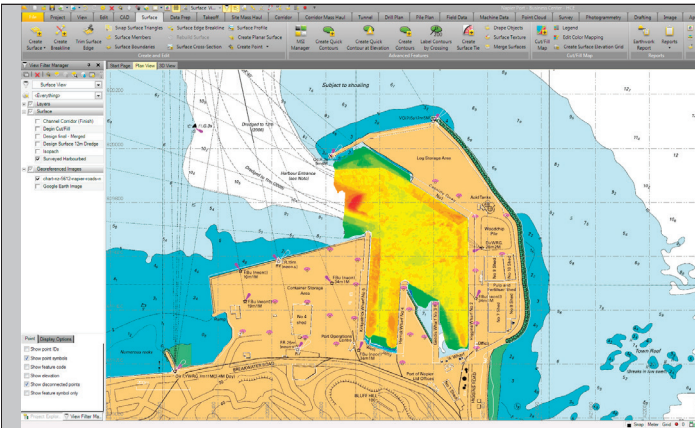
Business Center — HCE is a global, fully supported software solution that can help you be more profitable, work more efficiently and reduce rework.

- ▶ Manage marine point cloud data to check for errors in the data set
- ▶ View models in 3D to check validity of marine and land topography
- ▶ Import data from third-party marine acquisition packages
- ▶ Merge terrestrial and hydrographic data to manage the surf zone
- ▶ Plot color coded waterway bed contours and cross sections
- ▶ Input simple or complex channel designs
- ▶ Evaluate different channel or breakwater alignments to quickly find the ideal design
- ▶ Determine volumes prior to dredging and then report progress volumes
- ▶ Use positive depths or positive elevations
- ▶ Add optional modules as work tasks evolve

Business Center — HCE for Marine Projects

FEATURES

- ▶ **Standard Features**
 - ▶ Import and export data in ASCII, PDF, LandXML, AutoCAD DXF / DWG and Bentley DGN formats
 - ▶ Surface visualization in 3D color
 - ▶ Hydrographic format for depth plotting
- ▶ **Data Preparation**
 - ▶ Edit and manipulate 2D data to 3D data surface
 - ▶ Use positive depths or positive elevations
 - ▶ Labelling tools, trim or extend lines and features
 - ▶ Offset lines and points in design surfaces
 - ▶ Edit and clean hydrographic data in model mode or point cloud mode
- ▶ **Surface Tools**
 - ▶ Create contours
 - ▶ Design channels and surfaces
 - ▶ Update cut / fill volumes automatically and quickly even with large data sets
 - ▶ Produce volumes between surfaces, from a surface to a depth, and from a surface to a design surface
 - ▶ Merge existing and design surfaces
 - ▶ Edit and review point cloud data
 - ▶ Drape image objects over surfaces
- ▶ **Image Manager**
 - ▶ Georeference aerial images and vector PDF files
 - ▶ Import vector PDF data to CAD data
- ▶ **Advanced Drafting**
 - ▶ Use survey coordinate geometry calculation routines (COGO)
 - ▶ Create 3D PDF files
 - ▶ Create cross sections
 - ▶ Plot color-coded elevation data to help visualize the surface
 - ▶ Use point labelling, dimensioning and table presentation tools
 - ▶ Plot sheet design leads to automatic creation of drawing sheets
 - ▶ Customize plan sheets to your standards and formats
 - ▶ See plots in a split view—plan view and cross sections



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