

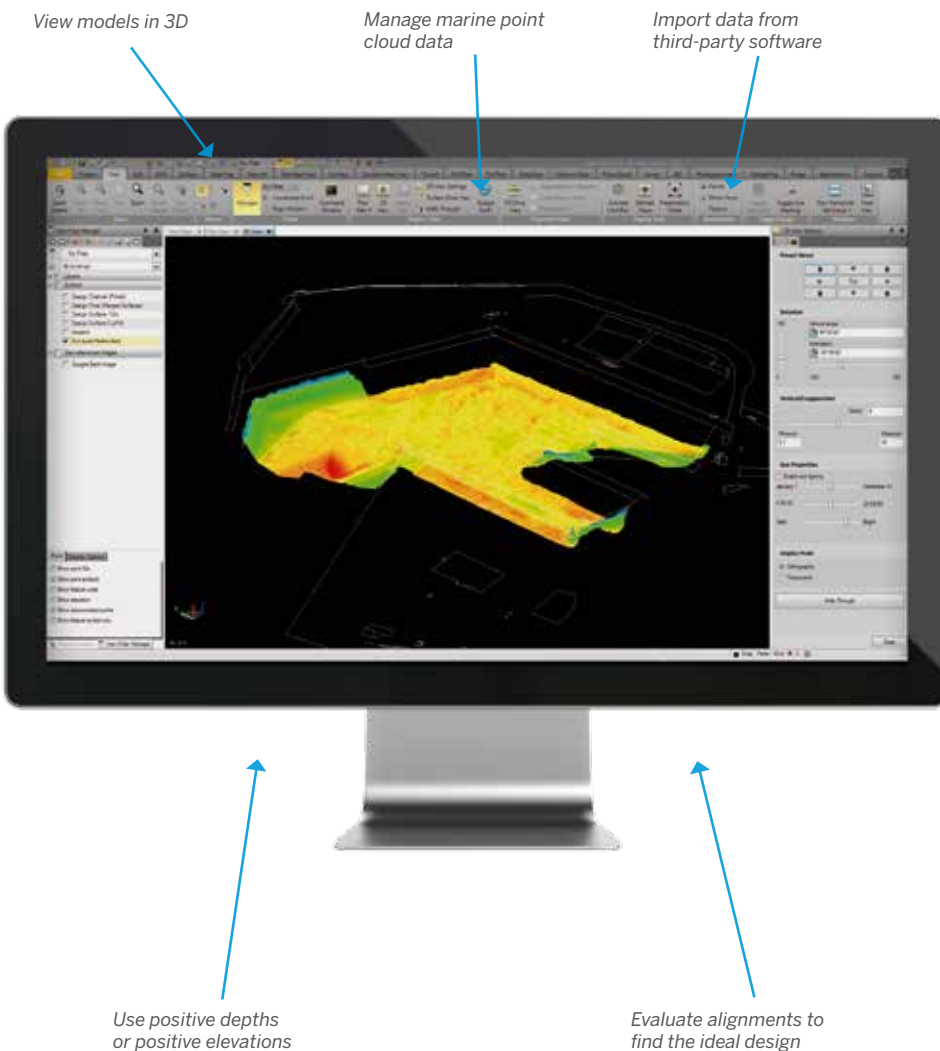


BUSINESS CENTER — HCE FOR MARINE PROJECTS

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

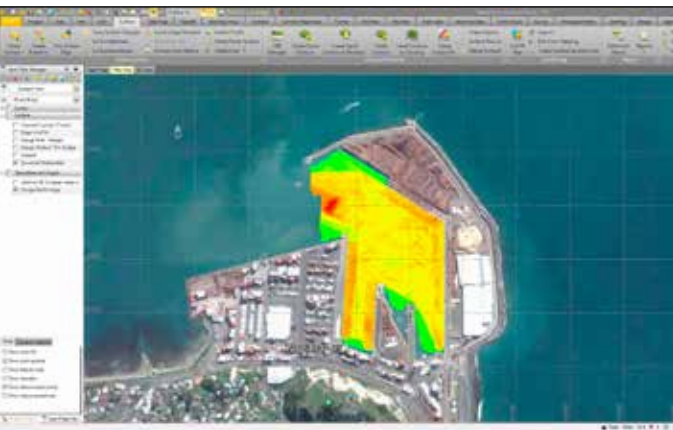
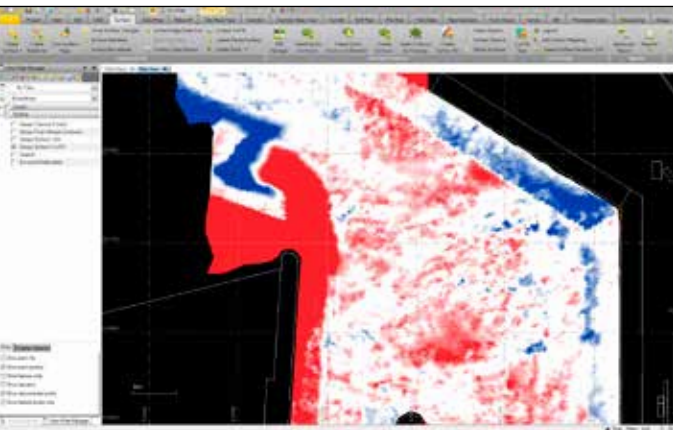
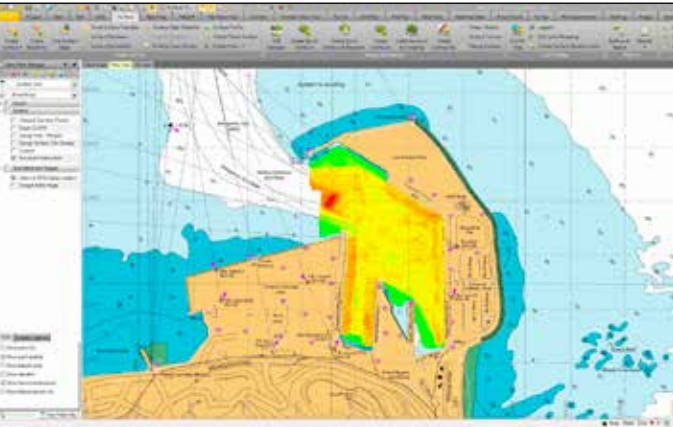
- ▶ Create contours
- ▶ Design channels and surfaces
- ▶ Update cut / fill volumes automatically and quickly even with large data sets
- ▶ Produce volumes between surfaces, from a surface to a depth, and from a surface to a design surface
- ▶ Merge existing and design surfaces
- ▶ Edit and review point 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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