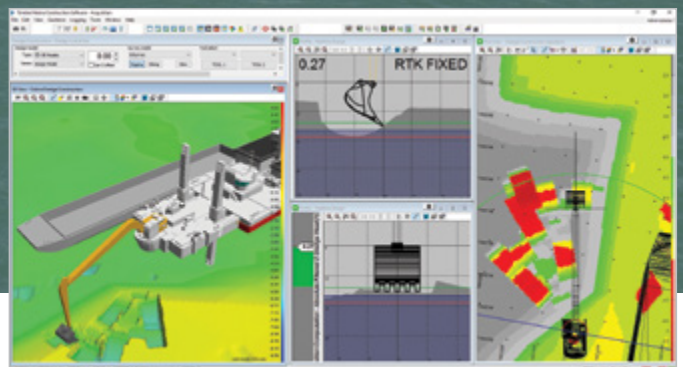
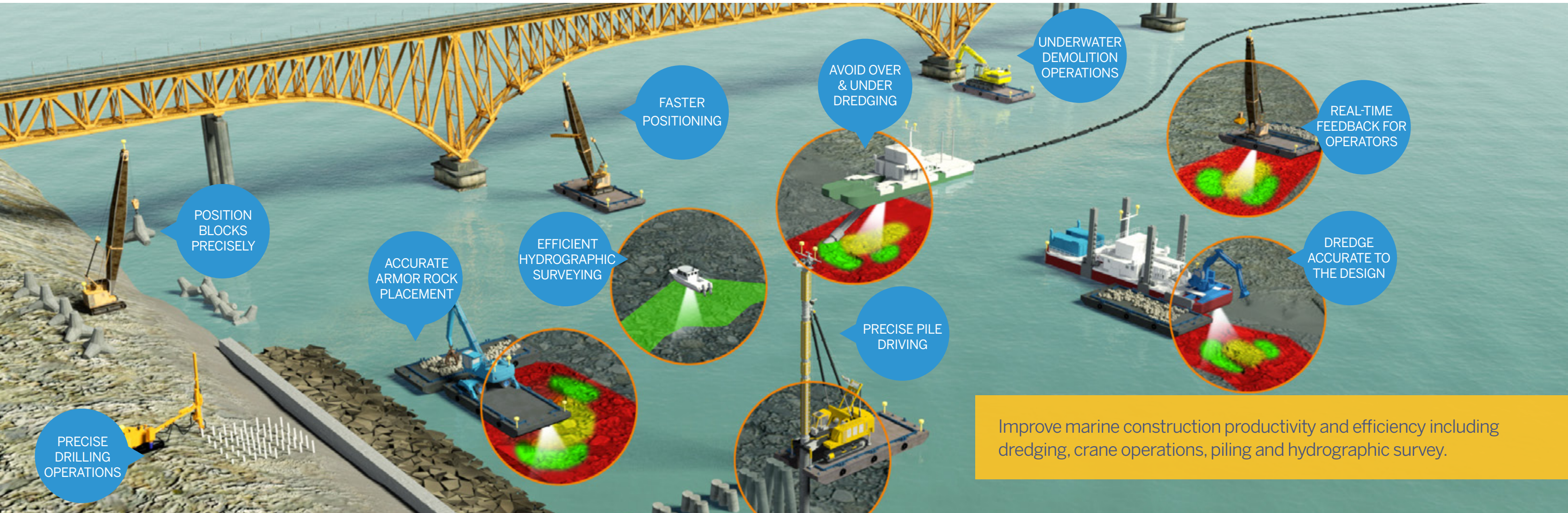


Accurate underwater real-time
3D visualization



Trimble Marine Construction software

Always Moving Forward



Improve marine construction productivity and efficiency including dredging, crane operations, piling and hydrographic survey.

DREDGE

Optimize cutter suction dredging, bucketdredging, hydraulic excavator dredging, wire crane clamshell dredging.

- ▶ Compare design vs actual construction in 'as-building'
- ▶ Visualize and monitor the angle and position of the bucket, dredge arm ladder or cutterhead.
- ▶ View absolute position of the dredge head in relation to the design and surveyed surface
- ▶ Real-time view allows operator to clean up before moving the barge
- ▶ Improve surface accuracy
- ▶ Return to the last position to continue where you left off
- ▶ Accelerate productivity and operator confidence
- ▶ Empower operators with tools to improve their productivity

CONSTRUCT

Optimize piling, rock placement, caisson and block placement applications to improve productivity and efficiency.

- ▶ Robust and reliable solutions maximize uptime
- ▶ Real-time view of the excavator/crane and barge in plan and profile views, including tool, surveyed and design depths
- ▶ Supports real-time sonar inputs providing as-building capability
- ▶ Continuous data logging for as-building and volume reports
- ▶ Tolerance visualization provides guidance for accurate and efficient placement productivity
- ▶ Project manager can configure the screens for a specific workflow/user and lock it down for the operator

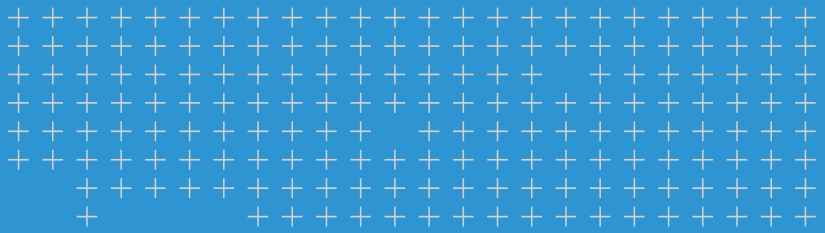
CONSTRUCT (CONT'D)

- ▶ Import or build project design and survey models in the office or field
- ▶ RTK GNSS can be used to provide precise vertical positioning to replace tide and draft measurement
- ▶ Supports barge or shore-based workflows
- ▶ Third party laser for non-vertical crane wire and optional detachable sensor for block orientation during placement and updates
- ▶ Report as-built construction

HYDROGRAPHIC SURVEY

Reliable and efficient hydrographic survey planning, data acquisition, and volume calculations. A powerful tool for the hydrographer and helmsman to complete efficient marine surveys in both shallow and deep water.

- ▶ Supports single and multi-beam hydrographic workflows
- ▶ Efficient multi-beam survey data acquisition
- ▶ Easy management of large data sets
- ▶ Single-beam interpolation for grid models
- ▶ Supports Trimble inertial sensors for vessel or roll, pitch, heave determination



Transforming the Way the World Works

Trimble's Marine Construction Solutions are transforming the way marine operations work by helping build and maintain the world's port, river, canal and other critical infrastructure. Trimble continues to transform this industry's work across the project lifecycle through sophisticated planning and design, advanced automation solutions, precision machine control, site positioning, mobile technologies and real-time connectivity.

Trimble offers flexible, high-performance positioning systems to meet the unique needs of marine construction on both simple and complex projects. Solutions include both hardware and software, and can integrate third-party hardware. The portfolio includes marine information systems, antennas, radios, receivers and inertial positioning systems.

Visit trimble.com/marine for more information.

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