

## HEAVY INDUSTRY

### Applications

- As-builts for retrofit plant design: oil & gas, petrochem, chemical, water, power and mineral
- Remote survey of difficult and dangerous nuclear, offshore and underground facilities:
- QA check of fabricated parts against the design
- Construction and demolition planning
- Documentation for operations & maintenance

### Benefits

- Faster, safer, less costly, more accurate, more complete as-builts
- Reduces retrofit design & construction errors
- Reduces plant downtime from construction problems
- Faster, better retrofit design
- Reduces site visits & time on site for data capture
- Lets users leverage existing 3D design software for design and clash detection directly with scans.

### Benefits

- Faster, safer, less costly, more accurate, and more complete topographic & as-built survey
- Ability to re-use data instead of returning to the site for additional surveying
- Minimize road, airport, etc. closures for surveying and impact on site construction and site operations during surveying
- Ability to survey at night when site/asset may not be in use

## SHIPPING INDUSTRY

### Applications

- 2D and 3D as-builts of hull, frames, cabins, rooms and onboard plant & equipment for ship modifications and new construction
- Fabrication and construction QA
- Construction & installation planning
- Shaft alignment
- Merchant, military and leisure vessels

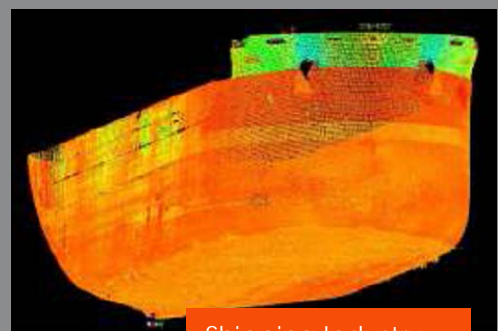
### Benefits

- Faster, safer, less costly, more accurate, more complete as-builts
- Reduced refit design and construction errors
- Survey while at sea for parts fabrication pending arrival at base
- Virtual walkthrough for shore-based engineers
- Ability to re-use data instead of returning to the ship for additional surveying
- Ability to re-use data instead of returning to the ship for additional surveying

## CIVIL SITES

### Applications

- Topographic and structure surveys
- Roads, bridges, tunnels, rail, airports, power distribution, telecom
- Construction QA & monitoring
- 2D maps, 3D models, DTM's
- Asset management, e.g. bridge clearances for truck route planning
- Topographic diagrams, site, planimetric surveys
- Commercial, public, residential properties
- 2D maps, DTM's
- 3D scanning & 3D modeling of buildings, monuments constructions, objects
- Application studies & as built drawings
- Project supervision & project management
- • Urban, environmental and hydraulic design
- • Environmental impact design



Shipping Industry