Design Process Inside Point Cloud

- Functional layout creation
- Clash free design and installation
- Dimensionally accurate design allows for pre-fabrication of structures and pipework
- Minimal amount of hot work on site
- No on site adjustment of structure
- Expensive and time consuming modelling of existing structure is not required
- Instant visualization

Clash Detection

- Clash check between new structure (3D Models) and existing structure (Point Cloud)
- Clash check between two existing structures (Point Clouds) without time consuming 3D modelling
- Detailed reports with description of clash and proposed solutions
**Reverse Engineering**

- Significant reduction of time and cost in comparison to traditional survey methods
- Point Cloud contains detailed information about existing structure geometry including deformation and impairments
- 3D models based on Point Cloud can be modified and used to produce 2D documentation and FEM stress analysis

**Additional uses for Laser Scan data**

- Drawing review against Laser Scan data to report differences from original design and update relevant documentation, i.e. As-Built drawings
- Point Cloud data is archived for future use
- Source of visual information about inaccessible areas (e.g. under deck and tanks)
- Access to original imagery of subsea equipment (e.g. ROV and BOP)
**Spherical 360° Photographic Records**

- Virtual walk through of clients assets
- Intuitive controls and key plan to easily navigate around assets
- Information sharing and planning activities remotely to reduce cost and avoid delays associated with travelling to assets and multiple surveys