Design of a Skirted Foundation for Offshore Project
Dr Manh Tran, Principal and Technical Leader for Southern (Geotechnical) – Jacobs

This presentation discusses the foundation solution for a proposed offshore structure designed to operate in areas subjected to adverse environmental actions. The project’s extremely limited budget and time constraint have resulted in a number of unique, challenging requirements; some were contradictory in nature: minimal site investigation and preparation, minimal foundation and installation cost while ensuring a successful placement and a robust foundation performance. In addition, the conceptual design of the foundation for the proposed structure was found technically not viable.

This talk will go through the planning and design challenges presented by the project, and how these were addressed by a foundation concept that was able to meet the project requirement of “make it work” within challenging design constraints. It also illustrates a case where a design was progressed on a risk acceptance basis by the project owner.

Taking LiDAR Subsea – Increasing Metrology Efficiency and other Real World Applications
Adam Lowry, Managing Director, APAC – 3DatDepth

The significance of efficient subsea survey metrologies providing quality data can dramatically impact operational efficiencies across a range of applications through the life of field for oil and gas operators. Spool piece metrologies are a critical piece of survey programs and can influence infrastructure integrity. Subsea LiDAR is changing the way we collect and interpret subsea spatial data. An exciting recent development has been to use the subsea point cloud data to 3D print damaged subsea parts at 1:1 scale.

Subsea Heavy Lift using an A-Frame
Ben Healy, Managing Director/Naval Architect – Thrust Maritime

A subsea campaign for Woodside has just been completed to change out two very large subsea Multiphase Pumps on the Vincent field in weather conditions that are not conducive for such recovery activities.

This presentation discusses how use of a large A-Frame with integrated articulating guide wire system provided improved weather up-time compared with using a construction type normal AHC crane.