



EMPLOYMENT HISTORY

2015 - Present	Installation Analysis Engineer TechnipFMC, Malaysia
2013 - 2015	Graduate Subsea Engineer TechnipFMC, Malaysia

EDUCATION

2009 - 2013	Master of Engineering, MEng (Hons.)
	Mechanical Engineering
	University of Southampton, UK
	<ul style="list-style-type: none">• Group Project : Powered UAV Glider• Individual Project : Numerical Simulation of Flow around Hydrofoil

MOHD IZDIHAR ZUHDI ZULKEPLI

SUBSEA INSTALLATION ANALYSIS ENGINEER

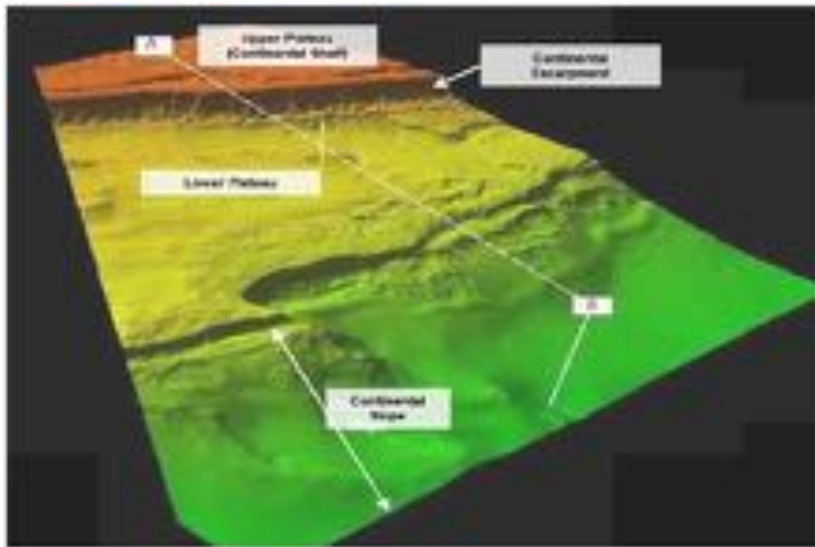
An engineer with 5 years of experience mainly in SURF installation, engineering and analysis.

Career Highlights:

- 1) Awarded “Exceed Expectation” for 4 consecutive years.
- 2) Successfully lead projects:
 - 1) Greater Enfield Development – Large size, >20 Lines of flexibles.
 - 2) ROC Oil – Remotely manage engineers in TPF India.
- 3) Maintain below 80% man-hours utilization for 6 consecutive projects.
- 4) Zero mishap in offshore due to wrong calculation/analysis.

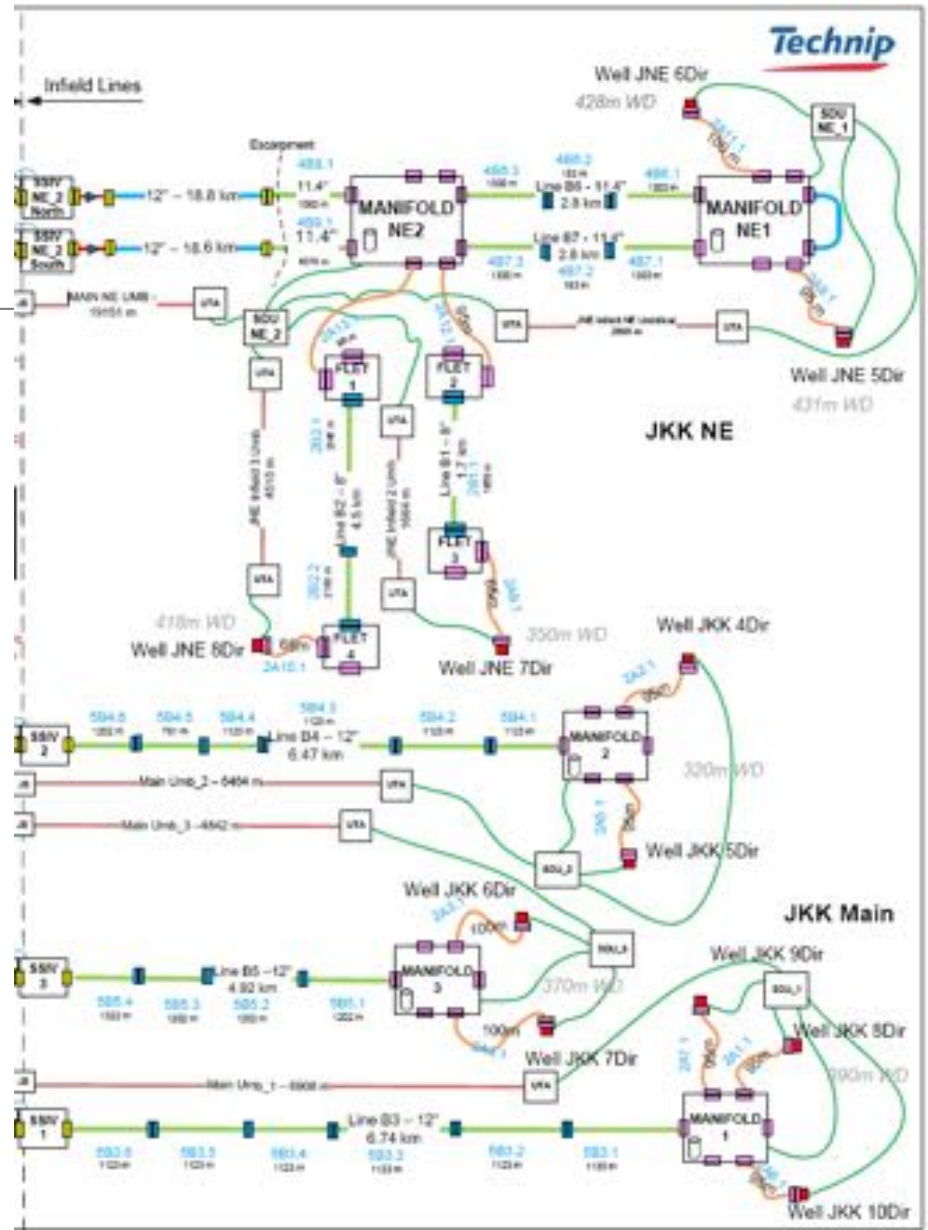
Project Experience

Year	Project	Client	Cost
2013 – 2014	Panyu Offshore Gas Field Development - EPIC	CNOOC, China	USD100m to USD200m
2014 – 2015	Kanowit PFLNG Satu Tie-In - EPCI	Petronas, Malaysia	Below USD100m
2015 – 2016	Jangkrik Complex Field Development - EPCIC	ENI, Indonesia	USD500m to USD1,000m
2016	Prelude FLNG	Shell, Australia	USD500m to USD1,000m
2016	Kaombo - EPCI	Total E&P, Angola	USD250m to USD500m
2016 - 2017	Bardegg-2 Baronia - EPCI	Petronas, Malaysia	Below USD100m
2017-Now	Greater Enfield Development - EPCIC	Wood Group, Australia	USD250m to USD500m
2018	Phase 1A Block H Gas Development Project- EPCIC	Murphy Sabah Oil, Malaysia	USD100m to USD200m
2018	Pipeline from D35R-A to D35JT-C Project- EPCIC	Roc Oil (Sarawak), Malaysia	Below USD100m

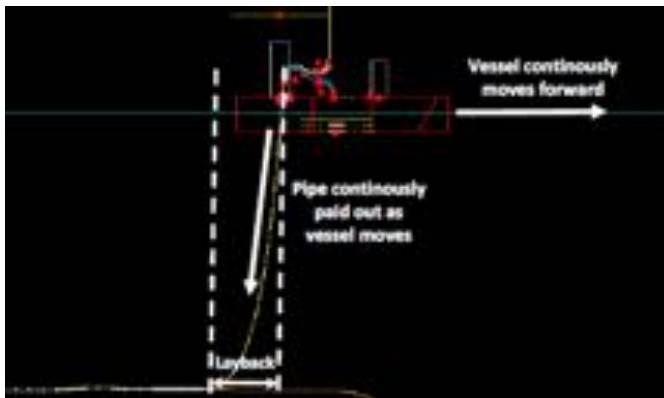
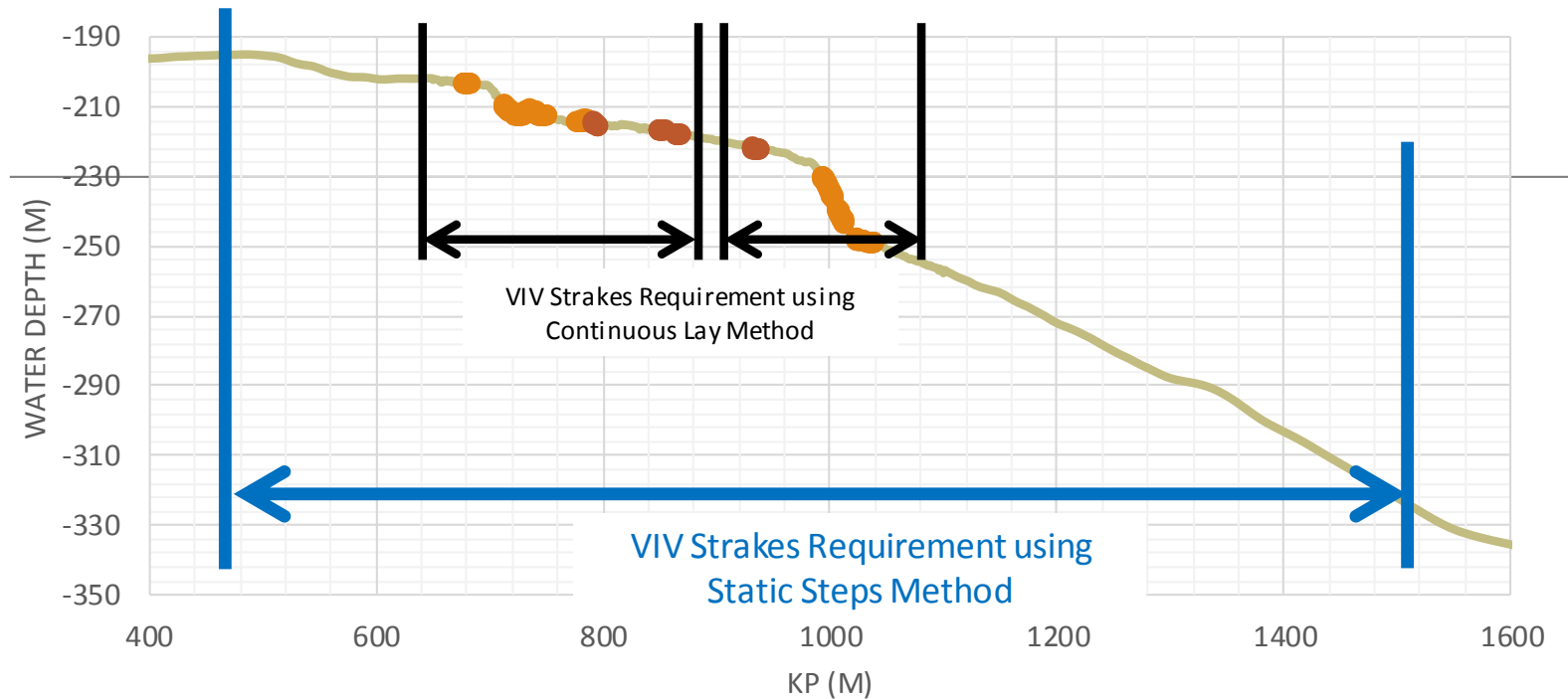


Problems with typical approach – Static Lay:

- 1) Unrealistic compression in product
- 2) Produce long free-spans
- 3) Longer offshore time

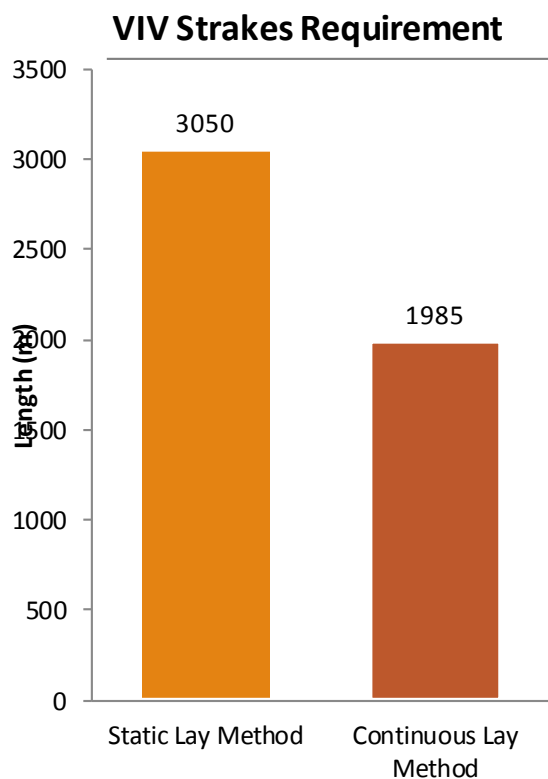


Umbilical Free Span Location Summary



Highlights:

- Python scripts are used to individually assess each of the free-spans. Results in huge amount of time saving.
- Completed the task within 3 weeks for 7 umbilicals



Method	Static Lay	Continuous
Additional Vessel on Hire Rate <ul style="list-style-type: none"> Vessel stand-off for waiting-on-weather due to limited sea-state^{(1) (2)} 	USD 450,000 (3 days) ⁽³⁾	-
VIV Strakes Required <ul style="list-style-type: none"> Cost per unit = USD 871 Length per unit = 1.4m 	USD 1,897,909	USD 1,235,078
Total Estimated Cost	USD 2,347,909	USD 1,235,078
Total Operation Cost Saving ⁽⁴⁾	USD 4,080,380 (47%)	

Assumptions:

- 1) Lower installation sea-state due to MBR & compression limitation.
- 2) Total of 3 umbilical lines installed. Assumed 1 day stand-off time per line installed.
- 3) Vessel day-rate = USD 150,000 / day
- 4) Total Operation Cost Savings is extrapolated to 11 lines (5 flexible flowlines & 6 umbilicals) installed during the Jangkrik Project

Total cost savings will be significantly higher if seabed correction works are considered

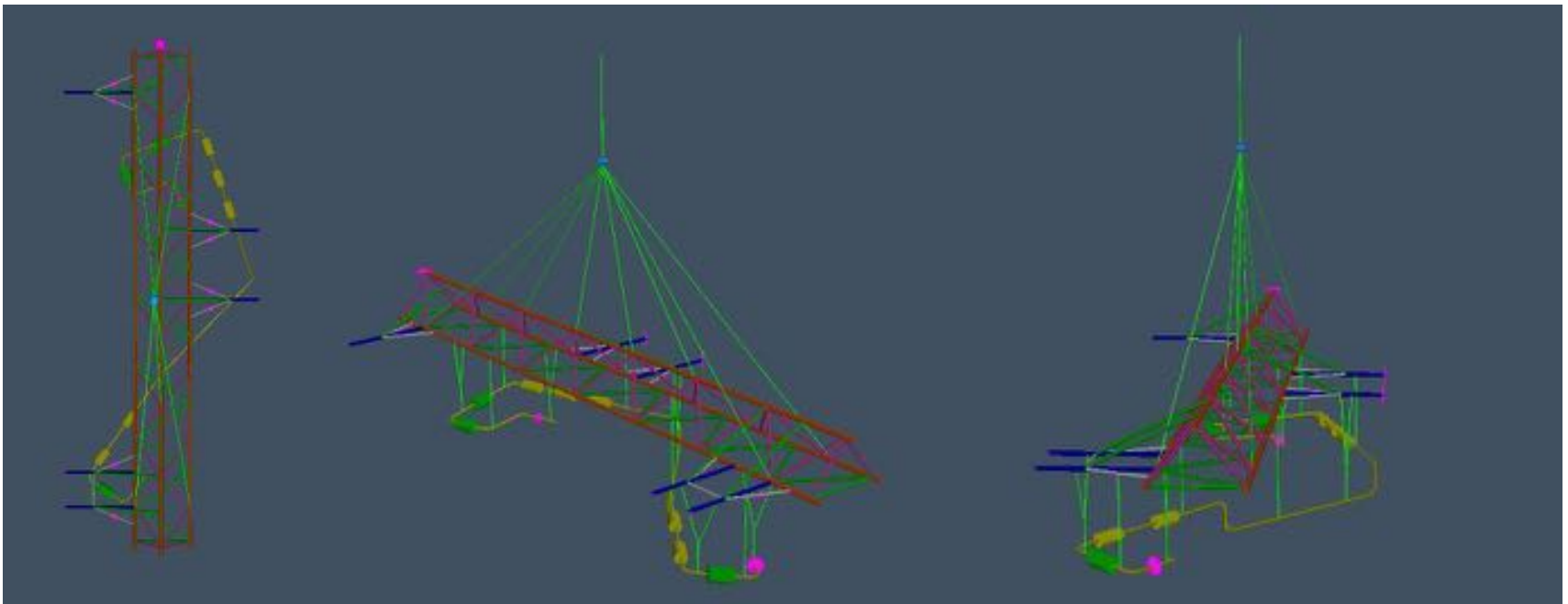


This method has been officially published in OTC Asia 2018 – OTC-28316-MS



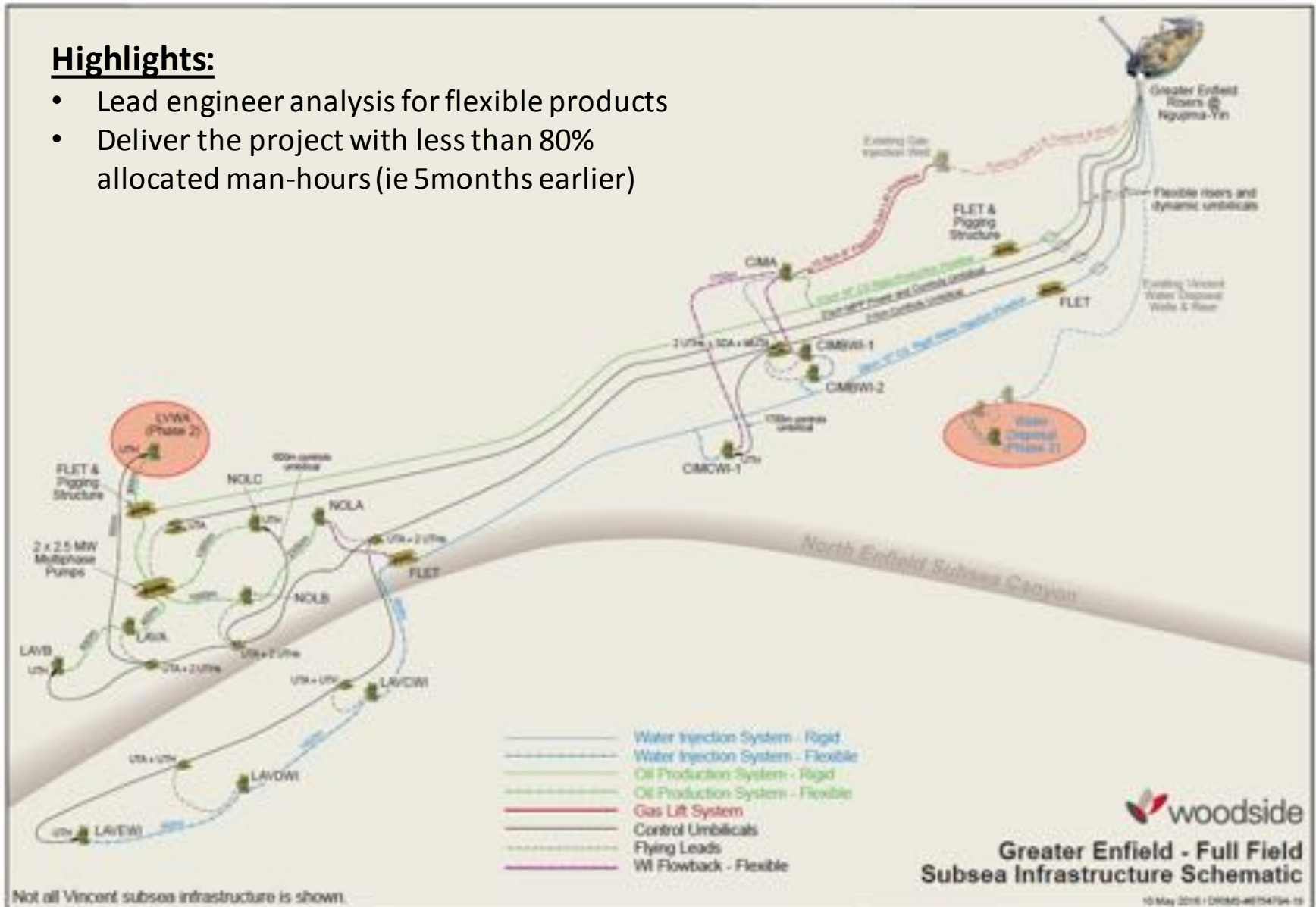
Highlights:

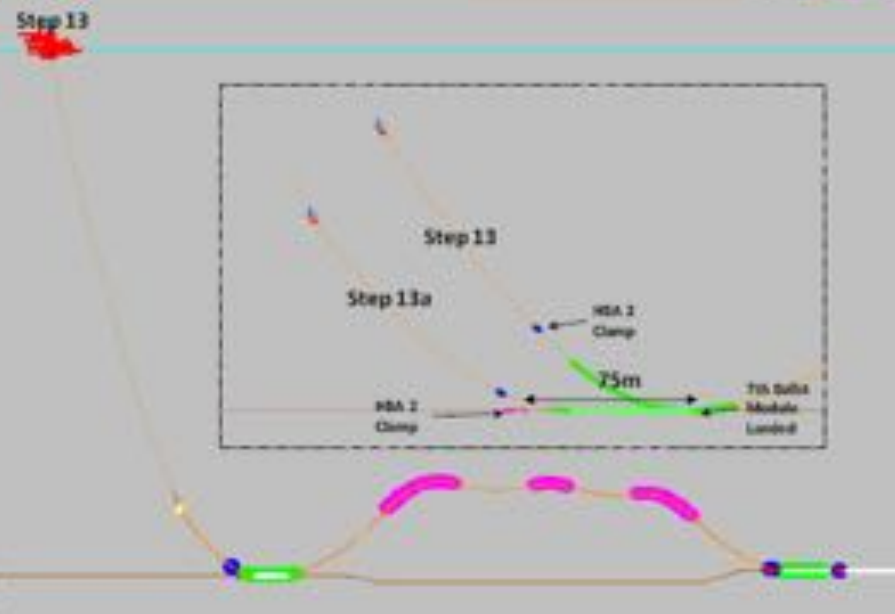
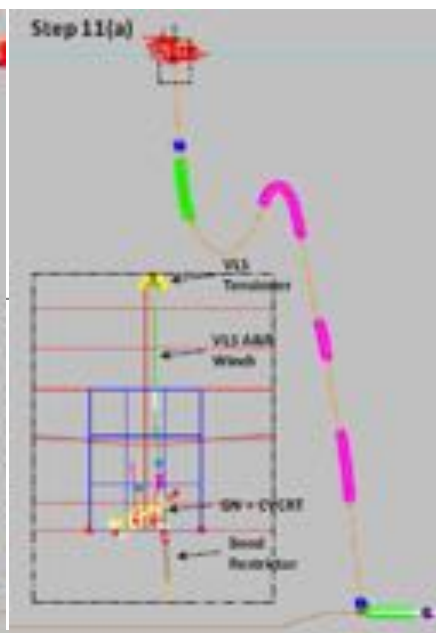
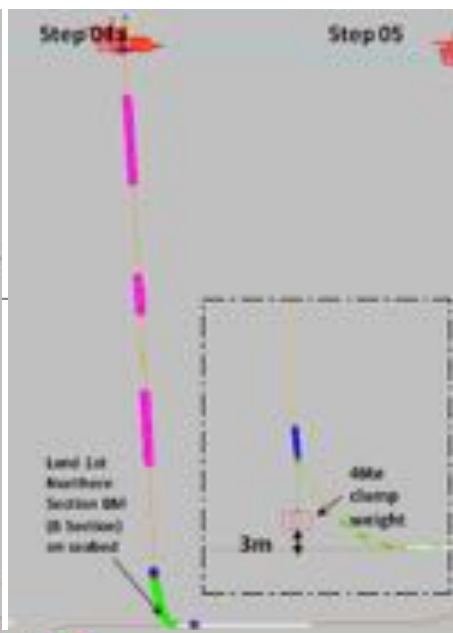
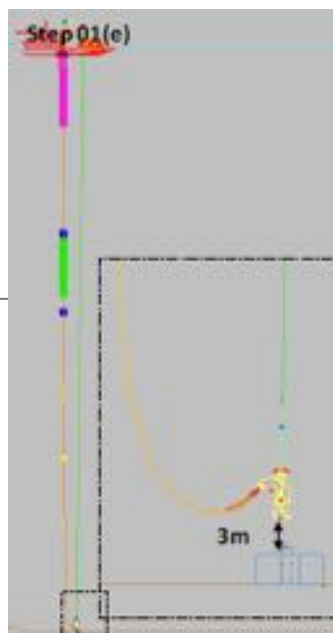
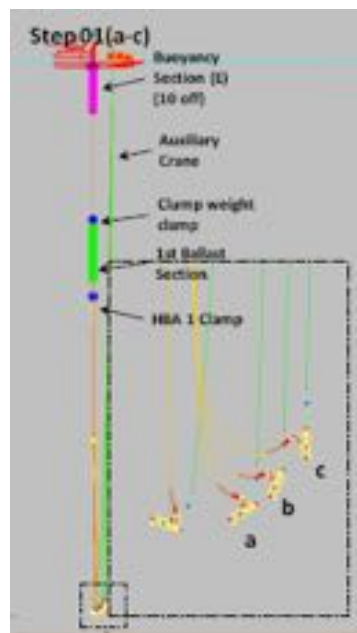
- TPF India claims each spools took 2 weeks to complete modelling.
- Python scripts are used in the modelling process.
- It only took us 3 days to complete modelling each spools.



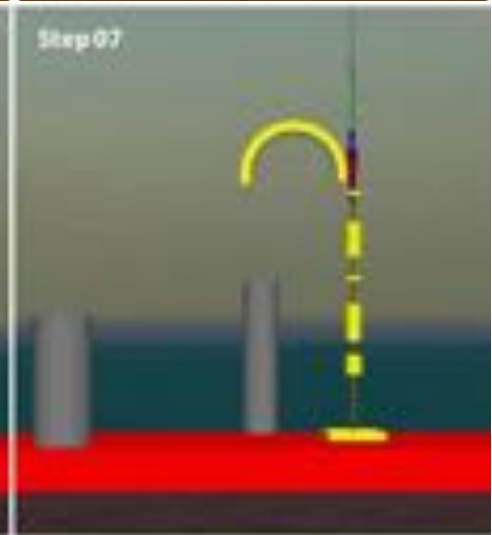
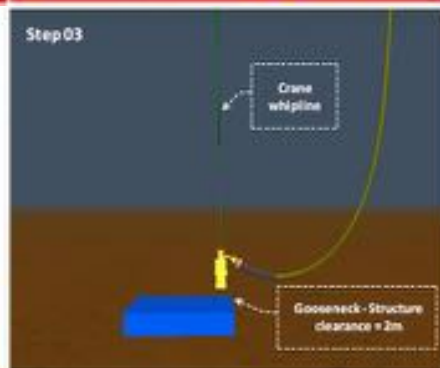
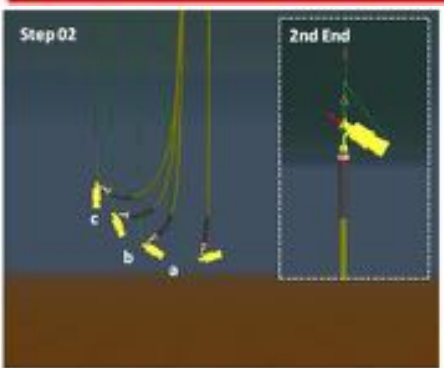
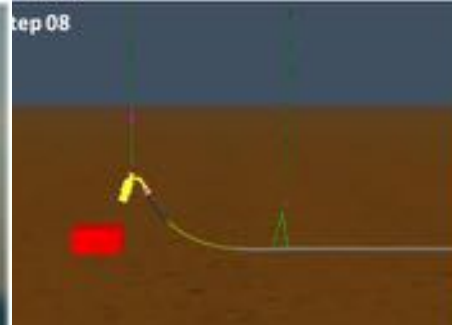
Highlights:

- Lead engineer analysis for flexible products
- Deliver the project with less than 80% allocated man-hours (ie 5 months earlier)

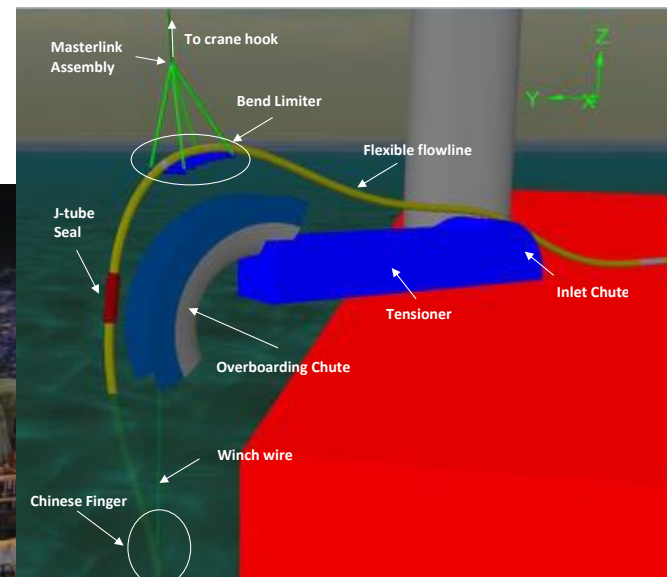
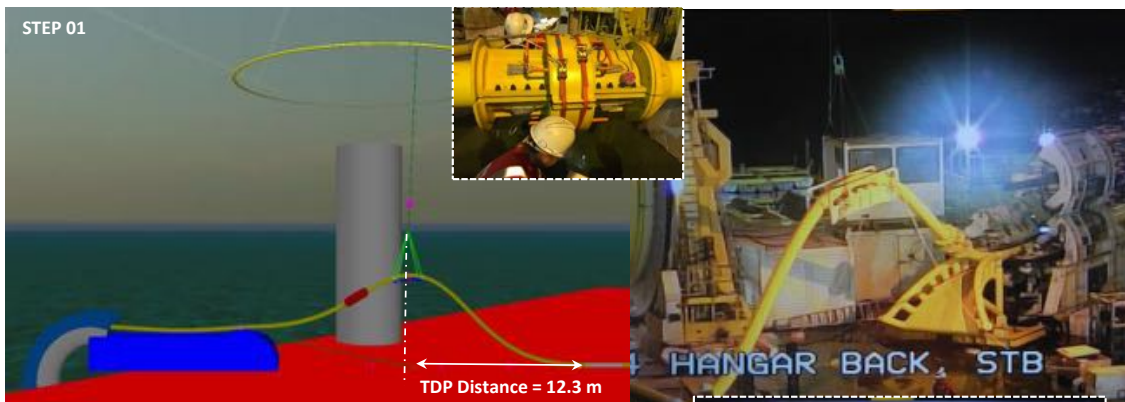




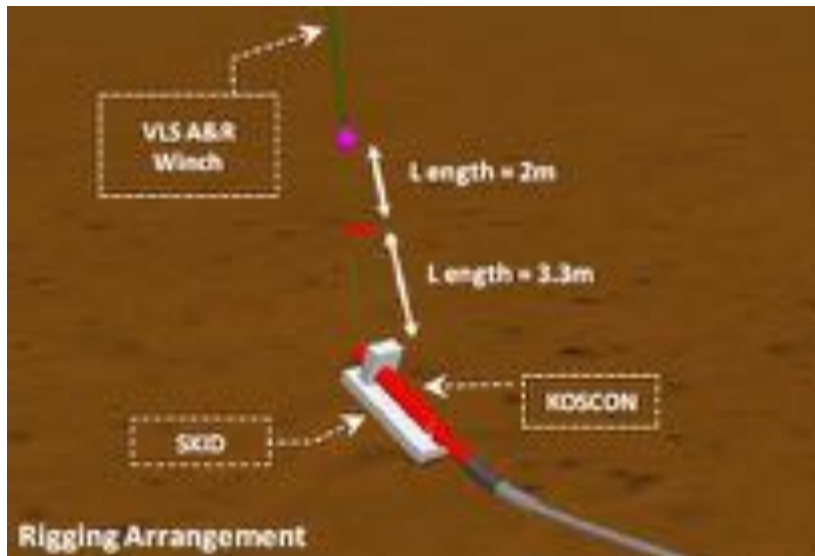
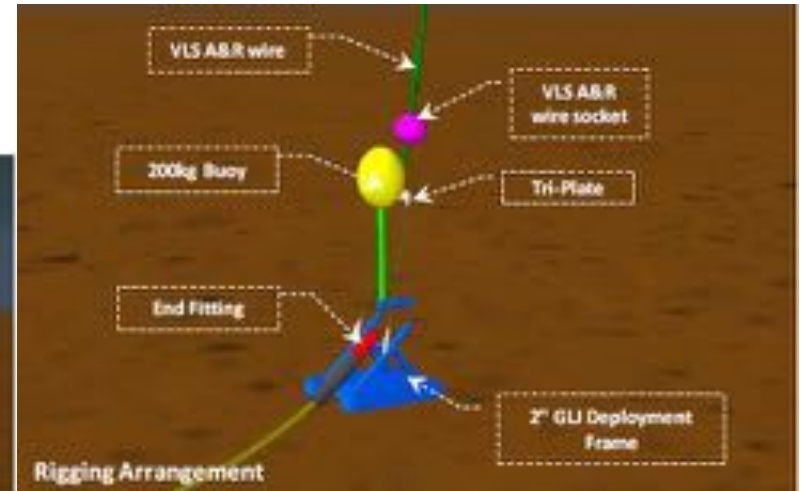
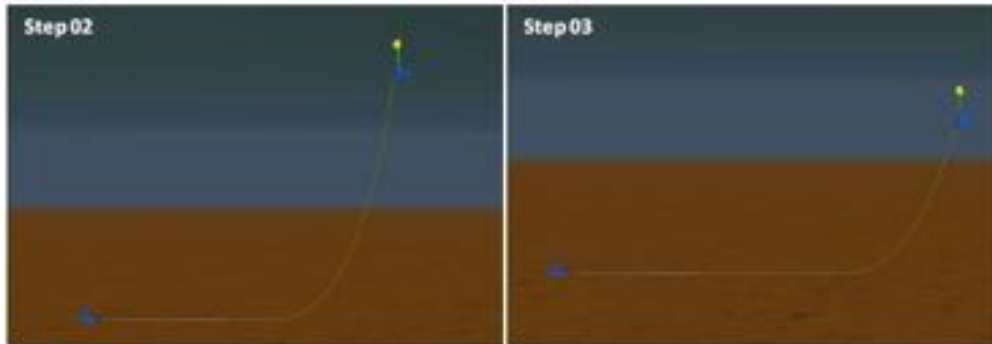
Typical Analysis Activities



Step 05



Unitech Connector



KOSCON



