

# RIGLESS WELL INTERVENTION

Safe and efficient intervention, workover and abandonment of topside wells

## Conventional accommodation barge

Low workability: long crane boom causes swinging load

Fast mobilization, independent of water depth

Low day rate



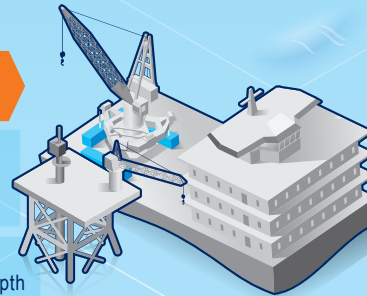
Lift modular equipment onto platform

## Barge with motion compensated crane

High workability: stabilised crane, hook and load

Fast mobilization, independent of water depth

Low day rate

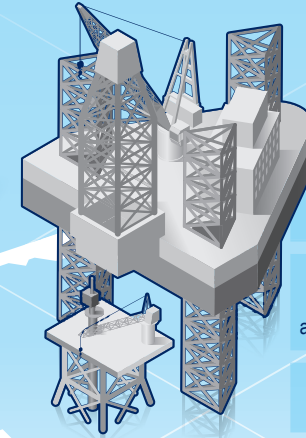


## Jack-up rig

High mobilization and day rates

Limited by water depth, soil conditions and subsea obstructions

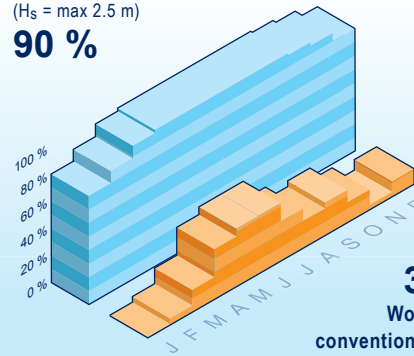
Often oversized for well intervention work



## Casestudy Malaysia: Work throughout the Monsoon

Workability barge with BM-T700 (H<sub>s</sub> = max 2.5 m)

90 %



30 %  
Workability conventional barge (H<sub>s</sub> = max 0.8 m)

## BM-T700 motion compensated lifting

### Accelerate your project

Barge with BM-T700 (H<sub>s</sub> < 2.5 m)

100 day job 10% waiting on the weather

111 days actual rental period

Jack-up rig (H<sub>s</sub> < 2.5 m)

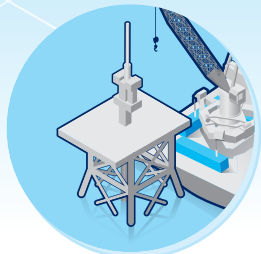
100 day job 10% waiting on the weather

111 days actual rental period

Conventional tender barge (H<sub>s</sub> < 0.8 m)

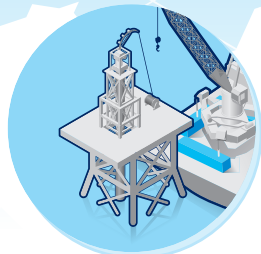
100 day job 70% waiting on the weather

333 days actual rental period



HWO

Hydraulic Workover Unit



CTU

Coiled Tubing Unit

► Well service equipment up to 160 mT ► Setup can be used with any type of crane

## Benefits of motion compensated lifting for well intervention



### Safety

- No swinging loads while lifting
- Low risk operations
- BM-T700 is man-riding certified



### Efficiency

- No waiting on weather
- Use locally sourced vessel / barge with any type of crane
- Same setup can be used for platform maintenance



### Reliability

- Fast and predicable offshore operations
- Controlled well shutdown period
- Workability of 300+ days a year on average worldwide

	Barge with BM-T700	Jack-up rig	Conventional barge
Daily costs*	€ 100.000	€ 250.000	€ 90.000
Actual rental period	111 days	111 days	333 days
Total costs per job	€ 11.100.000	€ 27.750.000	€ 29.970.000
Savings with Barge Master	€ 16.650.000	€ 18.870.000	
Cost efficiency improvement		250 %	270 %

\*) vessel + crew + equipment