Real-Time Data to Enhance Performance

More than 20,000 sensors are now sending data from the Maersk Integrator through the Drilling Productivity and Predictive Maintenance tools to enhance performance.

» The Drilling Productivity and Predictive Maintenance solutions are here to assist all of us in delivering even stronger operational efficiency for customers «
- Angela Durkin, COO

The partnership between GE Energy Power Conversion and Maersk Drilling has now moved from pilot project to implementation, with digital sensors in place on board the Maersk Integrator, enabling data-driven decisions in drilling operations.

The collaboration delivers two solutions: Drilling Productivity and Predictive Maintenance. Both solutions use big data analytics to reduce total well cost for customers by reducing Invisible Lost Time (ILT) and minimizing Non Productive Time (NPT) that results from breakdowns.

The solutions allow crews to move from a calendar-based maintenance schedule to executing maintenance when it is actually required. This improves productivity and lowers total well costs for all parties.

Drilling Productivity

The Drilling Productivity performance data enables customers to measure drilling productivity in real-time. On top of already implemented improvements, the tool is expected to deliver at least **an additional 20% increase** in efficiency for drilling operations.

Using a customizable web-based dashboard, all performance data is available both at the rigsite and onshore. Measuring data in real-time allows customers to view trends and set targets to improve performance.

Predictive Maintenance

The Predictive Maintenance solutions are currently monitoring the top drive, draw-works and mud pumps. Via the interface, the system – in conjunction with GE Subject Matter Experts – moves maintance from a calendar-based schedule to one based on usage intensity.

In addition, the system will be able to measure the maintenance effectiveness of each work order and advise when it is not adding any value, so that tasks can be removed. This will reduce maintenance which could have an impact on the critical path.

The system will also advise, in advance, on when a corrective action will be required as a result of changes in equipment behaviour. This alert will occur well before any breakdown becomes a risk.

Roll-out continues

The Maersk Integrator was the first rig to go live in December 2016. Since then, five more rigs have gone live and the roll-out is continuing across the rest of the fleet.

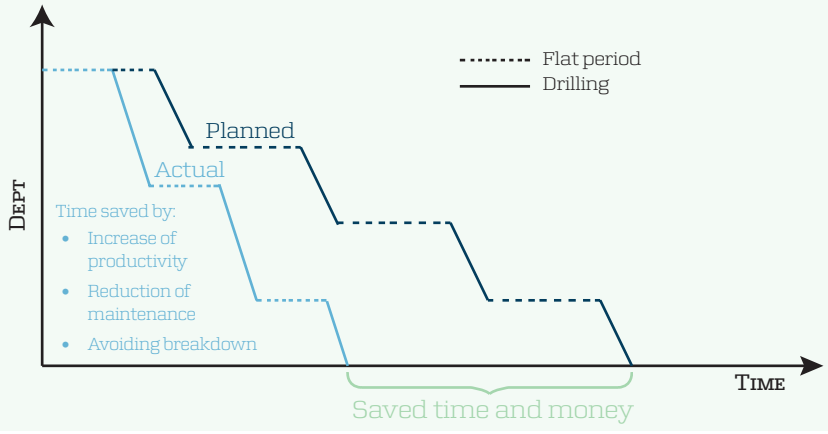
Find out more

Do you want to know more about Maersk Drilling's journey towards a data-driven future?

Please contact your local Maersk Drilling representative for more information.

Drilling Productivity

Monitoring system supporting performance improvement and decision support to directly impact the AFE curve.



Measured KPIs:

- Slip to Slip
- Weight to Weight
- Average Tripping speed
- Drill stand speed
- Casing running speed

MAERSK DRILLING