



+ WE LEAD THE FUTURE BY:

Keeping abreast of the latest technologies and industry trends; identifying opportunities and taking advantage of market developments; and incorporating cutting-edge technologies into our equipment, ensuring consistent performance and efficiency to exceed customer productivity expectations.

+ VALUE CREATION:

- Solutions to improve productivity
- Asset efficiency



CRANES SENSORS

INNOVATION STORY

Technology:

CRANE SENSORS AND MACHINE LEARNING: JEBEL ALI, DUBAI



With our main goal to deliver consistently high productivity for our customers, DP World identified a way to make our cranes smarter.

We took advantage of the Industrial Internet of Things to equip them with sensors that monitor performance, paired with learning algorithms that detect anomalies. Cloud data transfer capabilities provide real-time condition information via a dashboard and mobile application that alert the technical department when action is required in order to prevent mechanical failure. The proof of concept, first seen in June 2017, has already proven its worth. Findings have provided valuable insight for equipment specifications going forward, supporting the business case for rollout across the terminal.



+ WE LEAD THE FUTURE BY:

Taking pride in the work we do and the way we work; always looking for ways to improve; and delivering high performance while adhering to safety rules at all times – our people are our greatest asset.

+ VALUE CREATION:

- Solutions to improve safety
- Maintaining performance levels



INNOVATION STORY

Safety Technology:

**HUMAN DETECTION SENSORS:
MULTIPLE SITES,
DP WORLD GROUP**

Every DP World employee knows that safety is sacrosanct. We follow rules and procedures at each and every site to ensure that not just our staff but everyone entering DP World is safe.

We made a decision to move beyond safety induction training for visitors and closed circuit television cameras because our business is ongoing twenty four hours a day, seven days a week. We work to eliminate potential for errors that compromise safety. Proximity sensors readily available in the market are not enough; we have incorporated systems that use advanced cameras and algorithms to identify when an object could be hit. These systems can account for inanimate objects (e.g. high-mast lights, camera towers, structures) but more importantly can identify people on the ground, so helping to prevent incidents. DP World has also developed automated reverse-braking systems with a range of proximity actions for specific equipment.

