

New Role of Port and Container Terminal Automation in a Pandemic Age

Creating the Future, Now.
Ludgero Sousa



This pandemic has been illuminating
Automation.

Don't waste a crisis !

Automation has entered in a new era.

It was never imagined that one day we would have a **pandemic** that would oblige organizations to operate remotely.

We have **always** seen technology as an inspiration and this was an opportunity for everyone to be creative. This pandemic has only further illuminated our path and the desire to go further.





Automated terminals are becoming more mature



Semi-Automated STS Automated Yard Cranes

Remote Control Room



Remote control desks - we decided to create a distance and a specific allocation for the RCdesks so that the operator when doing their job feel on comfort zone and safer, respecting, at the same time, the new rules of social distance. We also moved all the technical functions supports outside the Remote Control Room, now there are fewer people inside that area.

With this privacy, we saw that, the remote operators are performing much higher. In the past, we did not have this work philosophy, but this pandemic has highlighted the benefit of the social distance.



“Vessel Completion”

Lashing certificate

Before the vessel to leave the berth, the Chief Officer needed to sign off the lashing certificate and box situation. It is currently a risk to go to the vessel accommodation area.

With the new procedure regarding the safety measures and social distance, "as soon as the vessel decides to leave the berth, the Chief Officer accepts the lashing certificate and the box situation.

Wat happens now is: as soon as we complete the cargo of the vessel, the Chief Officer immediately notifies us in the operational area, if there is something to be corrected. We reduced the time from 45 minutes to almost immediate.

ITV (Internal Terminal Vehicle)

Autonomous ITV

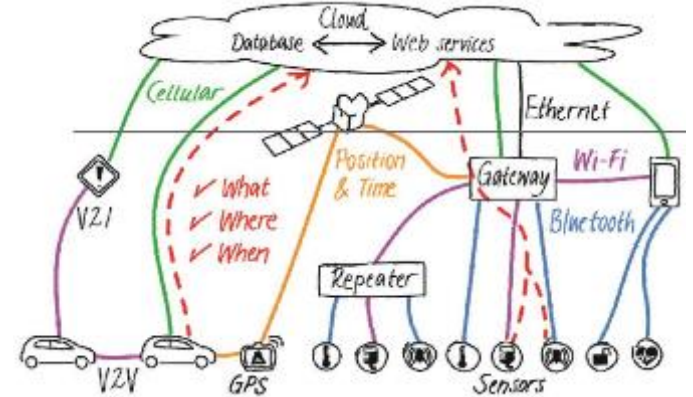


We were testing some [autonomous vehicles](#) in operation, this pandemic just [accelerated our decisions](#) and bring the project to [our pipeline](#).

Our [vision and strategy](#) are to introduce [digitalization](#) and the [newest technologies](#) as the [new global standard](#) for our traditional port operations, supply chains to enable our future of trade.

IoT (Internet Of Things)

Real-Time Tracking & Monitoring System



At Jebel Ali, we collect data on our equipment and processes in real-time.

Our application with artificial intelligence (and by default of parameters), manages to determine the possibility of an equipment failure or to warn us that something in the process is irregular.

Our technical and operational teams are immediately advised to determine the cause of the problem (often before it even happens).

This system brought us the advantage to understand where is our waste and how to optimize our operation. We need to find new ways to reduce our fixed costs, due to this pandemic where our volumes could drop.

**We Lead
Our Future**

THANK YOU

DP WORLD 

