Accenture Connected Ports

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90% of all the trade in the world happens by sea, carried by over 50,000 vessels around the world.

A busy port can serve hundreds of ships in a day so, if anything stops working, it can lead to some major delays.

This is a key crane used to unload ship containers but something isn't working and it's stuck. What could have gone wrong? With something as complex as a crane, there are many things which could have failed. It could also be a problem with any of the other systems in a port, such as a ship being late.

When something goes wrong, the operator needs to know what happened the moment it happens.

With Accenture Connected Ports, built on the Google Cloud platform, all the parts that make up a successful port are connected through one centralised system, so that operators can tell exactly what is going on, and where from just one app.

Accessible from anywhere, operators can see the status of the cranes, check on the logistics of the port, or find out if the ship is delayed.

Within the app itself, information is organised in a way that is easy to understand, while delivering powerful insights. The dashboard provides a top-level overview of all seaport operations at a glance, including a map of the port, status of birth activities, operational activity details, equipment status details, and work order requests.

From the port map, users can see the real-time location of tugboats, and cranes in operation.

The overview tab allows users to view information on birthing activities, including details such as the names of the ships, call sign, and the start and end of birthing time. It also provides such useful data as idling rate, and utilisation rate. These are collected real-time from IOT sensors, and the PLC that are attached to the tugboat and cranes.

On the equipment tab, users will be able to view more specific information about the individual pieces of equipment in the port, such as maintenance records, and utilisation rates. The raise button enables workers to request work orders for maintenance out in the field. All this data by itself is useful, but with the analytics tab, users are given insights into the data

through statistics like port productivity.

The system also includes an enhanced E-Services hub, tested with ecosystem partners and incubation hub to enable ideas management, and innovation in digital governance processes with greater real-time feedback from all the different systems that tie a port together, and a wealth of information at their fingertips. Operators can now do more than just respond.

With the Accenture Connected Ports, a port becomes an ecosystem.

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