



The Newsroom



Hot Off The Press

Low cost innovation changes the face of operations at Transnet Port Terminals in Port Elizabeth

The creation of a remote Rubber Tyre Gantry (RTG) monitoring system has changed how terminal operators at Transnet Port Terminals (TPT) - Port Elizabeth, carry out their duties. Previously, RTG machines - which are used to ground or stack containers at the terminal - were monitored manually.

This invention by Ayyoob Abrahams, an Engineer in Training (EIT), allows for terminal operators to monitor the activities of the RTGs remotely.

At less cost, the system monitors three crucial metrics: wind data, GPS positions and container moves from multiple RTGs in the terminal.

The terminal is able to track how high wind-speeds affect operations and the number of container moves the RTGs can make in a day.

The GPS metrics allows for users to provide accurate time and location data which is used to identify windy areas in the terminal where anti-sway RTGs should be placed. It also plays a role in providing accurate machine utilisation and identifies patterns in container moves based on location in the terminal, shifts, public holidays and weekends.

Another added benefit of the system is that it promotes transparency. Users can track activities at the terminal by logging into the PowerBi dashboard. This option ensures that all employees are on the same page, can make informed decisions and quickly identify and report issues.

The terminal aims to add more metrics to the system. This will not only benefit terminal operators but the technical department as well.

Abrahams, who is the mastermind behind this system said "I feel privileged and thankful to be given room to innovate. I hope the system can be extended to other terminals".

The terminal is also conducting research to determine if the dashboard can be configured to monitor other equipment.

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