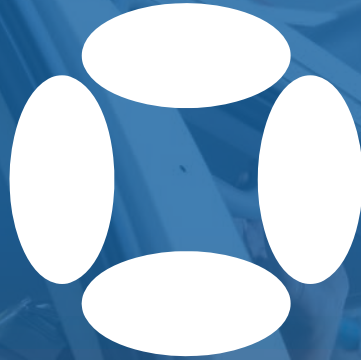




PASSENGER VEHICLES



SMARTSPACE PROCESS MONITOR

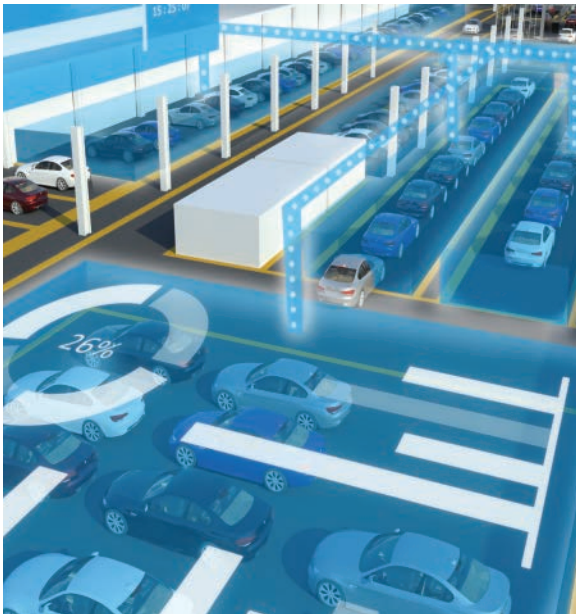
SmartSpace continuously monitors the flow and interaction of products in and around the test and repair department, capturing real-time insight into WIP status and location, repair area availability and adherence to planned flows and delivery targets. With the aid of real-time guidance, automatic flow verification and detailed process audits, operations teams can now proactively route WIP for optimal productivity and continuous improvement teams can quickly identify process waste and instability.

PROBLEM

- Wasted time searching for roaming WIP
- Lost, forgotten and ageing WIP
- Inability to route repair backlog through available repair zones for optimal productivity
- Under-utilised repair bays and over-utilised buffers and parking zones
- Bottlenecks and congestion causing quality and throughput issues
- Low productivity driving high WIP inventory build up and high labour costs to hit delivery schedules



SOLUTION



- Overlay a real-time digital twin plugged into actual production flow using software-defined work zones
- Real-time location of WIP across the site
- Automatic detection of ageing WIP and process-overruns
- Alignment of repair scheduling with resource availability and productivity targets
- Automatic detection of work zone errors including over-occupancy, marshalling and prohibited zone entry
- Measuring WIP flow to identify re-insertion errors, bottlenecks, missed steps and out of sequence products

VALUE

- Improved throughput leading to a reduction in WIP inventory
- Improved order-to-delivery time resulting in reduction in labour costs
- Improved resource utilisation leading to a reduction in necessary floor space and lower capital costs

