

Mauritius Maritime Week: Integrating Technology and Automation to Drive Productivity Improvements

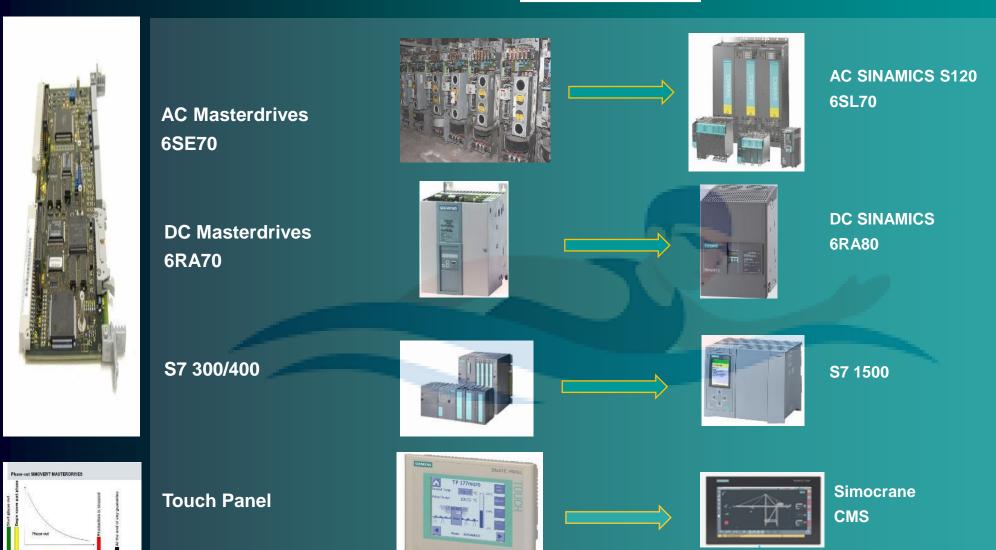
Buhle Yengwa Siemens South Africa, Africa

Electrification



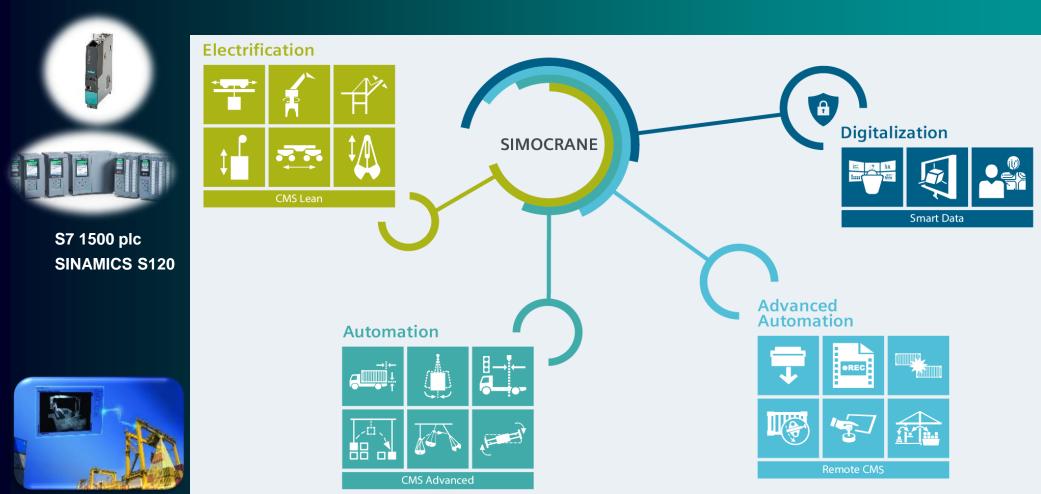
Are you ready for Automation that can lead to Productivity Improvement?

Modernization





Customization and Productivity Improvements: SIMOCRANE





RCMS



RCOS



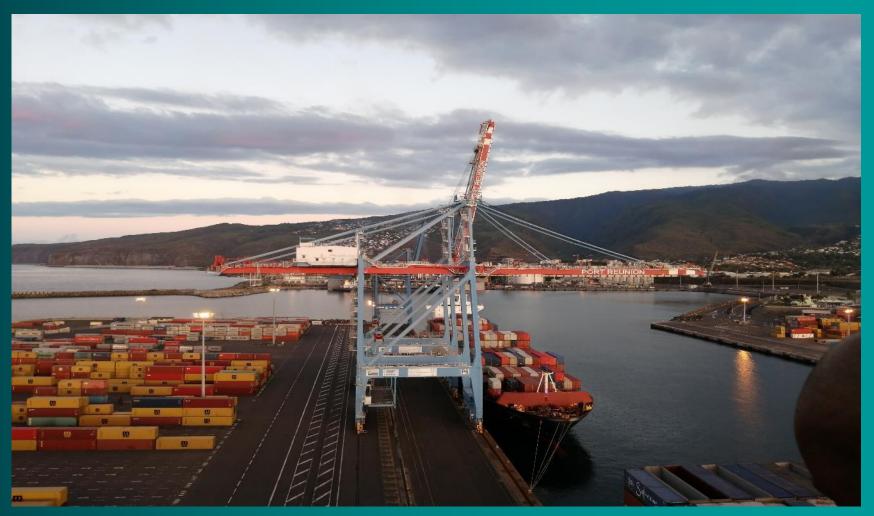


Crane Management System (CMS)

Advance Reporting and Data Analysis: CMS

Crane Management System

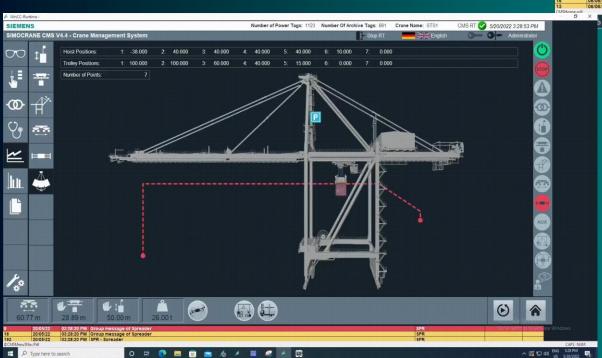
- 3D Models
- Trajectory Curve Screen
- Replay Function

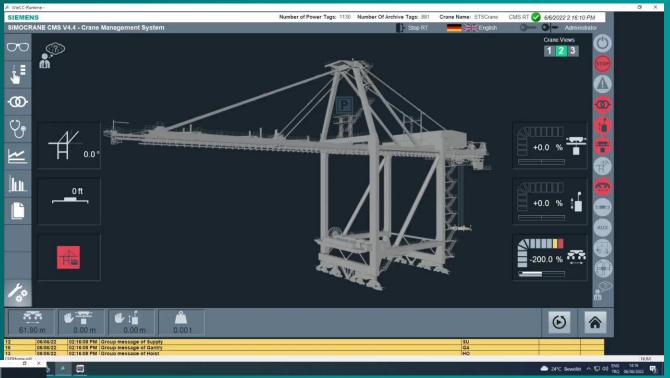


CMS: 3D Models

CMS Crane Screens

- 3D Models
- Trajectory Curve Screen





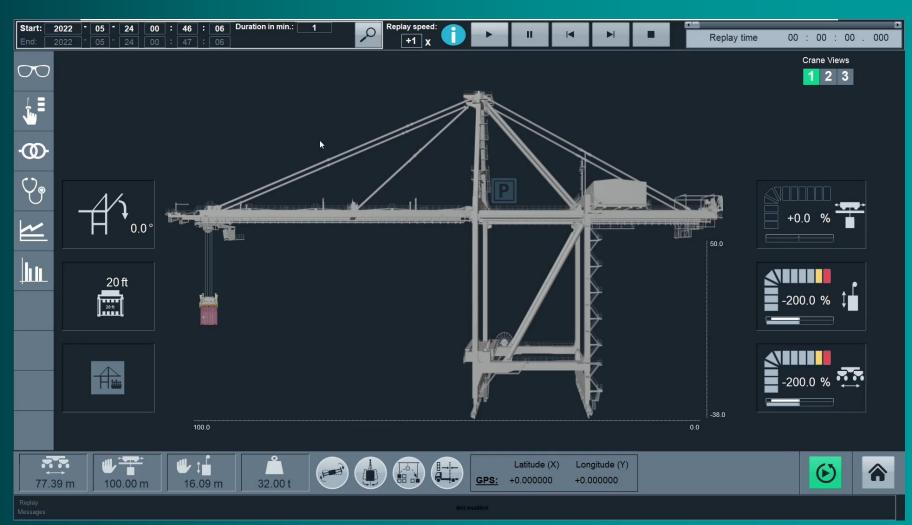
- Crane Indicators
- Status Bar
- Crane ComponentOperational Mode(Manual/Automatic)



CMS: 3D Models

Replay Function (Playback)

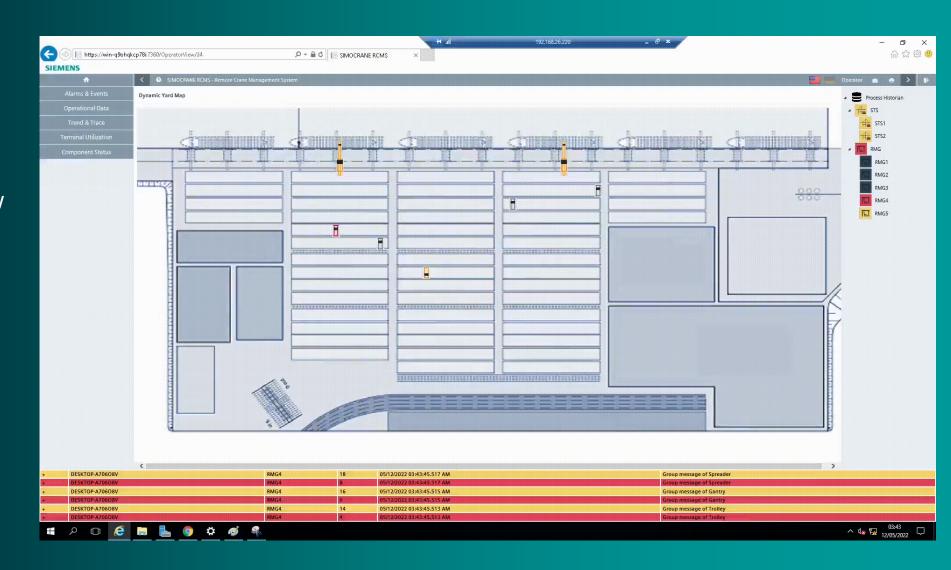
- Investigate crane faults and advance analysis
- Intelligent Replay Controller
- Play & Pause it like a movie
- Replay crane data as often as you want
- Direct connection to archiver (MS SQL)



Remote Crane Management System (RCMS)

Dynamic Yard Map

- Crane Status & Position Monitoring
- Fully Customizable View
- cartographical representation
- Separates Yard Maps View i.e. per terminal sectors



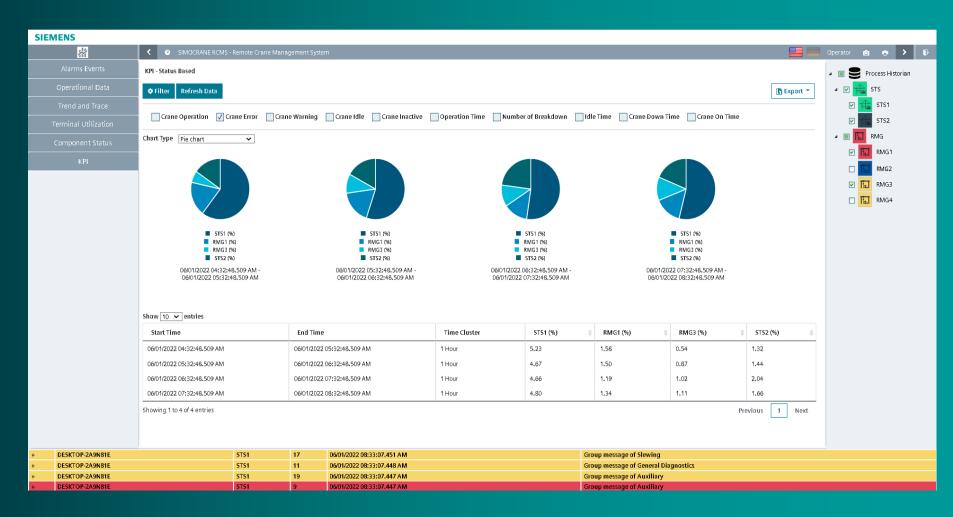
Data Mining & Data Representation: RCMS

KPI Screen

- Crane Comparison
- Operational Data
- Fault Messages
- Breakdown Messages

Important KPI

- MMBF
- Crane Status
- Number of Moves
- Crane Counters, Timers
- Energy Consumption



Remote Crane Operating System (RCOS)

Automation: RCOS

Stress on human body (neck/back)

Difficult to create comfortable environment

Reduced visuals due to increase of ship size (>70 high, >10m deep, >20.000 containers)

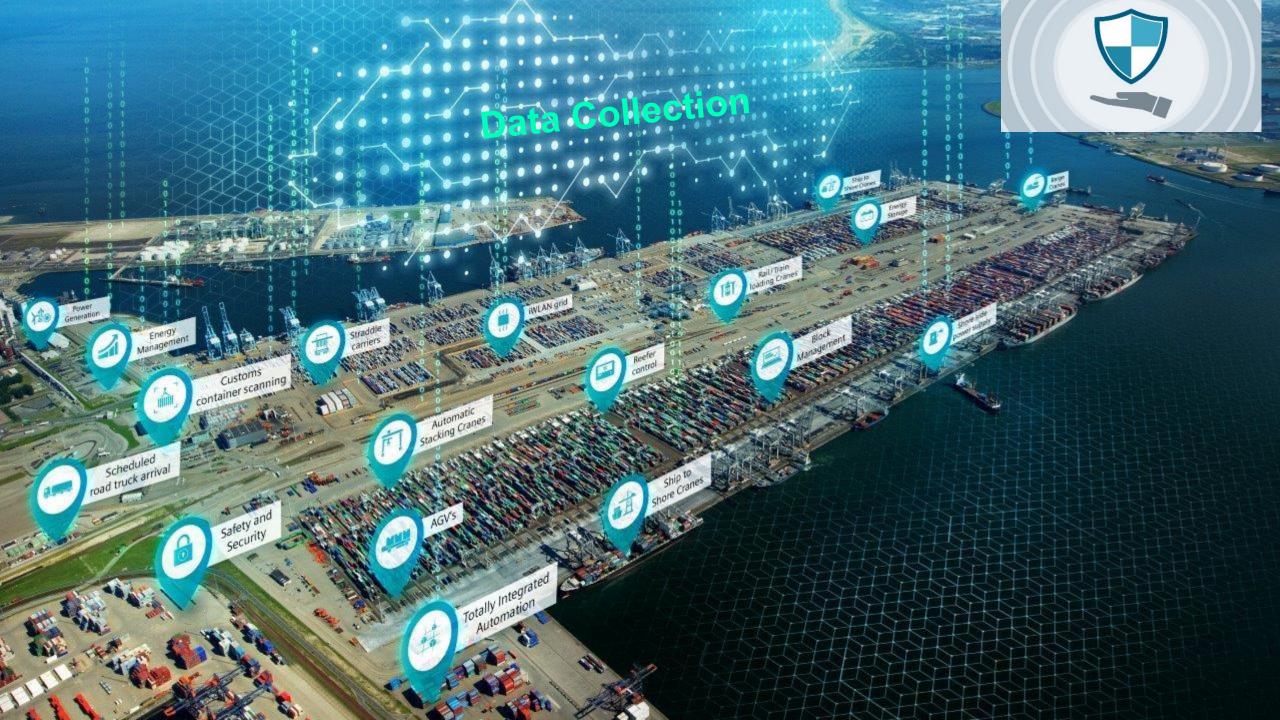
Automatic moves do not require active human interaction / supervision

Transportation to and from cranes



Smart Port







SIMOCRANE RCMS

Remote station

- Operation
- Maintenance
- Planning



Remote Control Operating System





Process Historian Central Archive







Redundant (Hot Standby)





















Thank you.....

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