



60 YEARS

**CONTAINER HANDLING
SOLUTIONS**

PACECO® GROUP

ADVANCED PORT TECHNOLOGIES

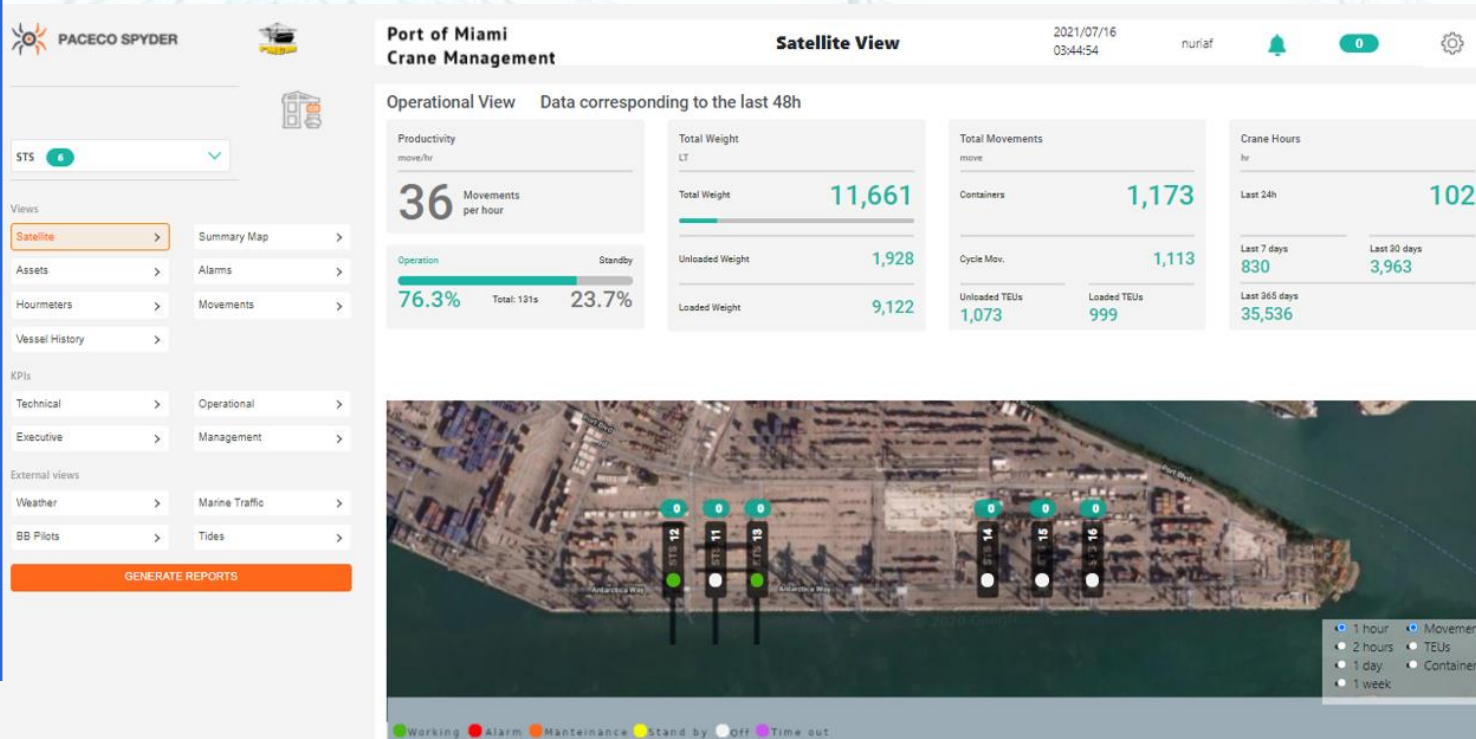
Terminal Digitalisation



paceco
spyder



Terminal Digitalisation through smart connection



Turn your terminal into a smart business and push its performance through terminal asset digitalisation: know your assets and cranes in full depth and get absolute control over them. Big Data & IIOT for smooth and profitable terminal operations while improving your decision making based on real-time data.

An environmentally sustainable port: increase environmental efficiency managing your resources and taking control over your carbon footprint thanks to IIOT technology. Benefit from Big Data and predictive analysis to schedule vessels arrival and departure. Make data-backed sustainable decisions by controlling the electrical consumption of your assets

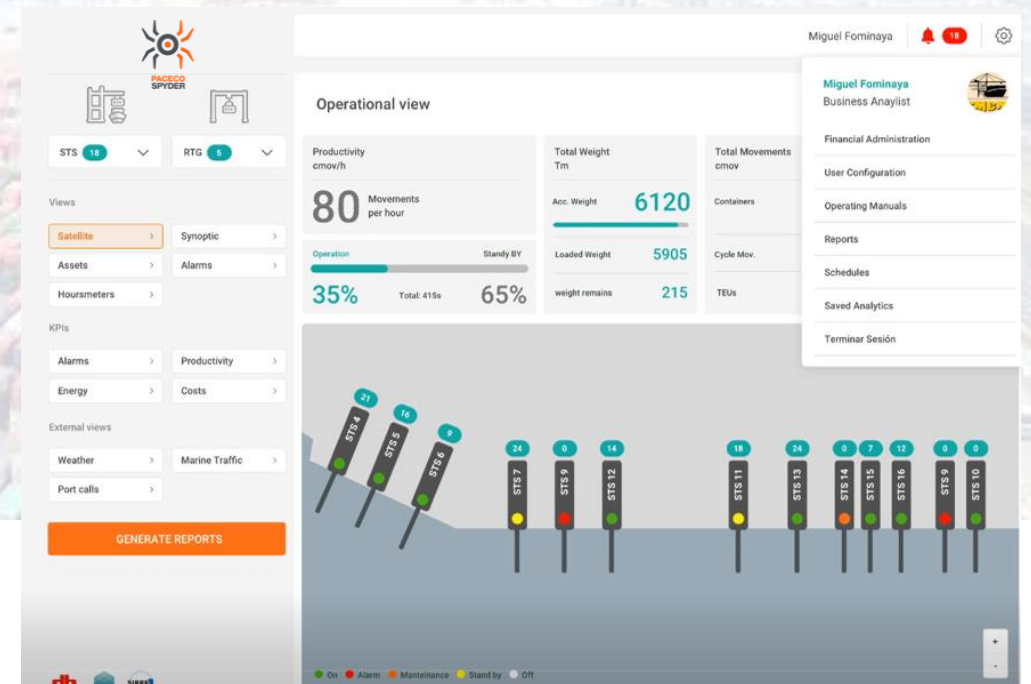
Small Sized Hardware & a Web Based Software Securely Stored in the Cloud

HARDWARE



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WEB BASED SOFTWARE



Terminal Digitalisation through Smart Connection of all Terminal Assets & Subassets



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QUAY CRANES



BERTH CRANES



HORIZONTAL TRANSPORT



FORKLIFT



YARD TRUCK



**STRADDLE
CARRIER**



REACH STACKER

Terminal Digitalisation through smart connection

Total real-time overview over how your assets are currently performing!



Real-time information about complete asset status
Mechanisms, alarms, statistics, maintenance alarms, hourmeters, monitoring modules, machinery house module (reducer gears and motors)

The screenshot displays the Paceco Spyder interface for 'Port of Miami Crane Management'. It features a sidebar with navigation options like 'Assets', 'Alarms', and 'Movements'. The main area shows a table of assets with columns for Date, Time, Status, Hoist, Trolley, Alarms, Cont/h, °F, mph, LT, Supply, Com., Maint., and TOS. A 'GENERATE REPORTS' button is visible at the bottom.

Asset	Date	Time	Status	Hoist	Trolley	Alarms	Cont/h	°F	mph	LT	Supply	Com.	Maint.	TOS
STS11	2021-03-16	09:55:57		4.55 ft	-14.78 ft		0	75.4	10.2	23.61				
STS12	2021-03-16	09:56:00		15.76 ft	26.84 ft		0	75.4	0.2	32.45				
STS13	2021-03-16	09:56:00		28.62 ft	74.17 ft		0	74.7	8.8	27.26				
STS14	2021-03-16	09:55:57		125.56 ft	-75.82 ft		0	72.2	5.5	20.66				
STS15	2021-03-16	09:55:39		86.19 ft	-77.02 ft		0	73.6	11.4	21.56				
STS16	2021-03-16	09:56:00		78.38 ft	-76.03 ft		0	75.6	19.9	21.25				

Terminal Digitalisation through smart connection

Real-time information about complete asset status

Mechanisms

Hoist, Gantry, Trolley, H&T, Boom position & status, Container type & status, fault & maintenance status

Maintenance Alarms

Maintenance actions to be taken on each single asset

Hourmeters

Recording of hours that the asset has operated since the last time the device was initialized. Basic data to control the preventive maintenance interventions on the equipment.

Alarms

Emergency stop alarm, snag alarm, spreader alarm, e-House temperature alarm, brakes alarm, vibrations alarms, collision avoidance alarm

Others

Wind speed, Weight under ropes, Main power & Communication status

Monitoring Modules

Mechanical devices Vibration Analysis, Analysis of Oil Conditions & Qualities, & Brake Status Analysis

Statistics

Cryptoregister second by second, Operational register container movement history & histogram

TOS Integration

May be integrated with Terminal Operation System (Terminal Automation)

Machinery House Module

Technical study of reducer gear and motors in the machinery house: Boom Hoist, Trolley & Main Hoist.



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Terminal Digitalisation through smart connection

Benefit from the information your digital twin provides you in real time!



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Real-time crane working view

Real-time view while producing huge data amounts: container movement, brake status, electrical consumption, movement cycles, weight per pin, hourmeters second by second

Port of Miami Crane Management | **Operational View of STS13** | 2021/07/16 07:08:17 | nuriat

Portainer: STS13 | Date: 2021-07-16 | Time: 07:07:02 | Status: [Icons]

Hoist: 84.2ft | Trolley: 51.2ft | Alarms: [Icons] | Power: 0.0kW | *F: 68.8 | mph: 7.1 | LT: 21.8 | Alim. Com.: [Icons] | Mntlum: [Icons]

Brakes	Hoist	Trolley	Boom	Mnt	Condition
✓	✓	✓	✓	param1	✓
✓	✓	✓	✓	param2	✓
✓	✓	✓	✓	param3	✓

Movement Cycles (Last)				
Type	Hour	24 Hours	7 Days	30 Days
TL 20	0	12	41	482
TL 40	0	343	713	4983
TL 45	0	2	20	55
TL TWIN	1	50	88	700
TOTAL	2	457	908	6900

Weighing (LT)	
Total	21.8
Water Side Left Corner	5.4
Water Side Right Corner	5.5
Land Side Left Corner	5.4
Land Side Right Corner	5.4
Eccentricity	0.13%

Hourmeters - (H)									
	only H	only T	H+T	H+T+G	Gantry	Boom	Crane On	Operational	Total
Last Hour	0.03	0.00	0.00	0.00	0.04	0.00	0.42	0.07	1.00
Last 24 Hours	4.28	1.88	4.21	0.00	0.25	0.23	18.87	10.59	24.00
Last 7 Days	9.13	3.40	7.97	0.00	0.77	0.33	35.81	21.28	188.00
Last 30 Days	77.82	28.40	68.51	0.00	12.98	5.37	328.49	185.83	720.00
LifeTime	851.76	275.49	781.16	0.08	112.55	71.32	3238.77	2003.15	14208.00

Terminal Digitalisation through smart connection

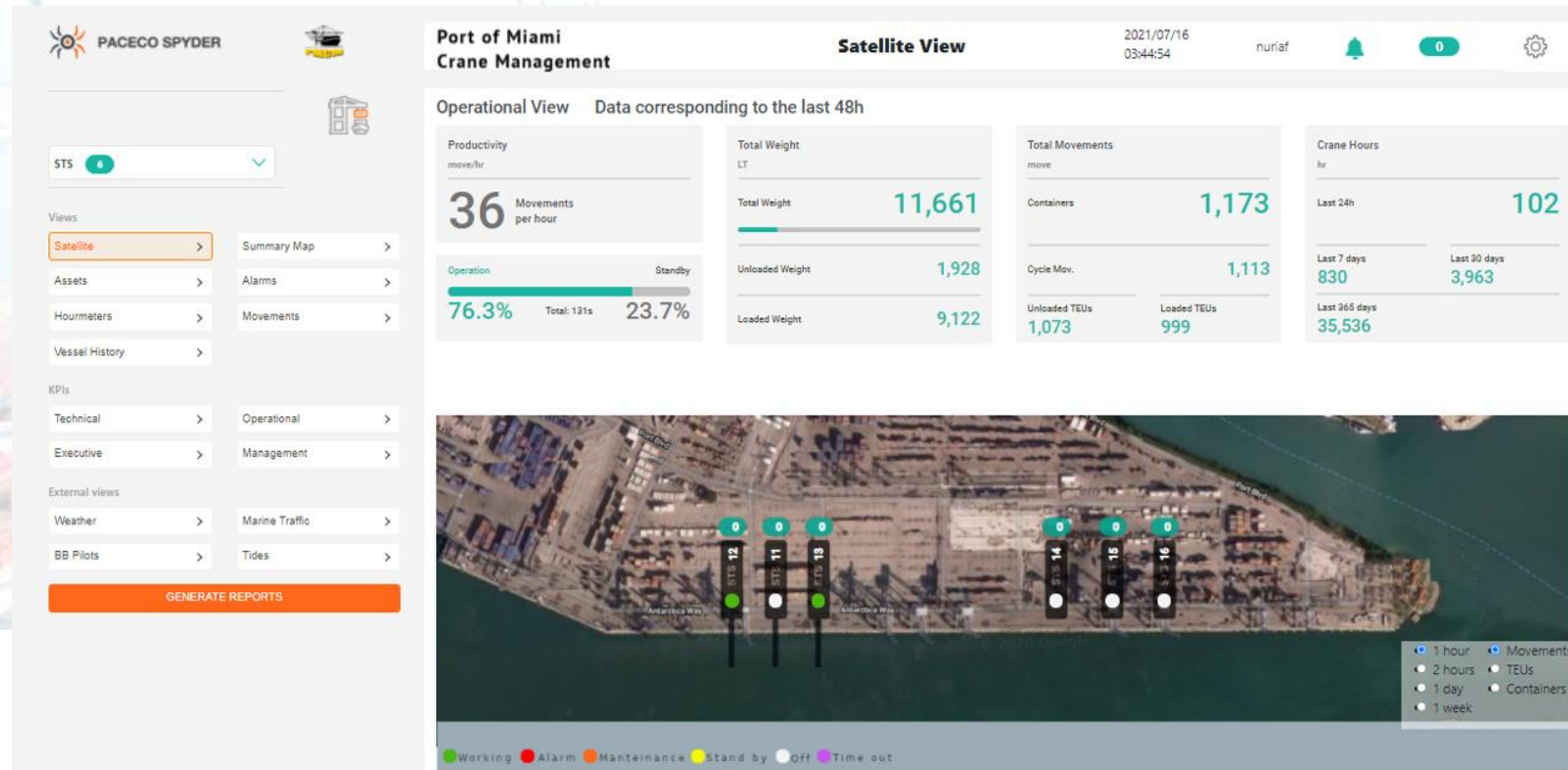
Your Terminal Operational Status constantly updated and at a glance!



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Real-time information about Operational status

Satellite terminal map showing all terminal assets and current operational status: operational KPIs, operational and/or maintenance alarms, wind alert, container moves during last hour



Terminal Digitalisation through smart connection

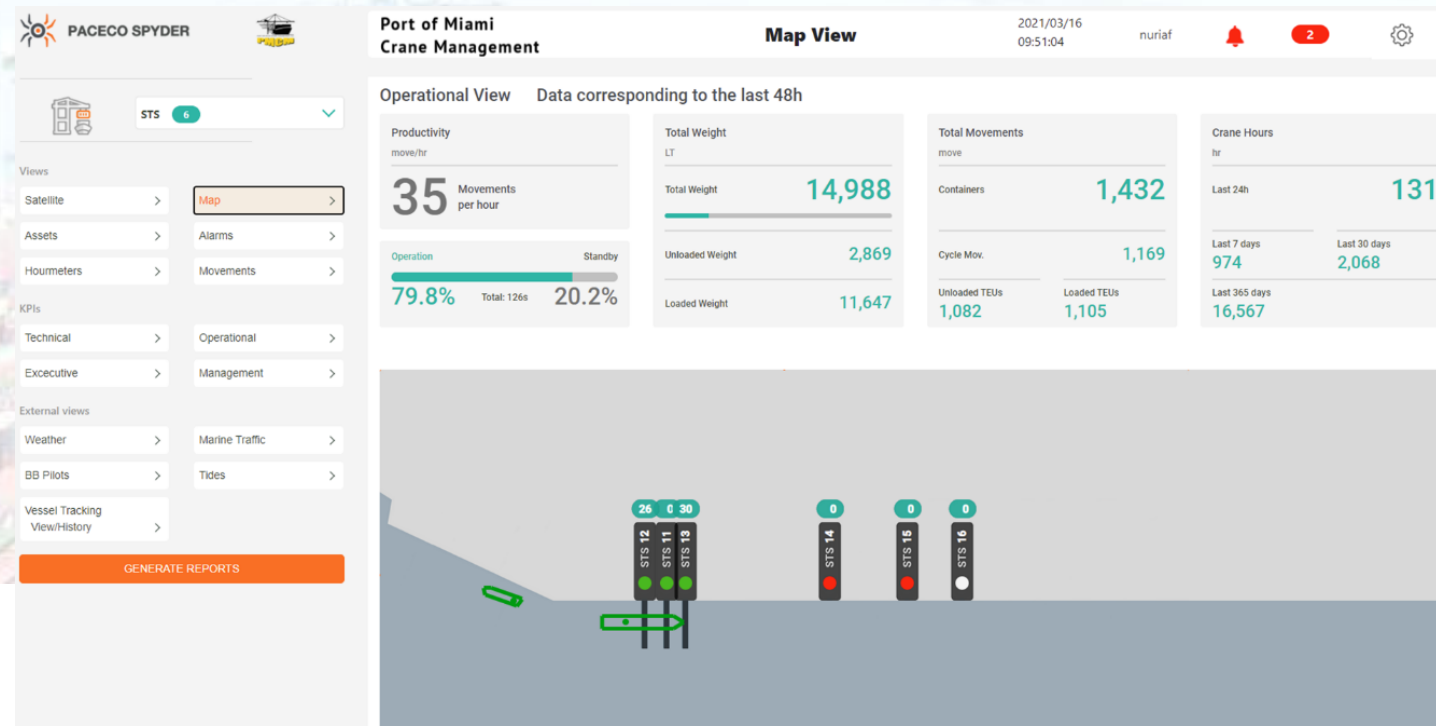
Your Terminal Technical Status constantly updated and at a glance!



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spyder

Real-time information about technical status

Synoptic terminal map showing all terminal assets & current technical Status: technical KPIs, alarms, wind alerts, container moves within the last hour



Terminal Digitalisation through smart connection

Real-Time essential Information for an Optimal Operational Terminal Planning!

Real-time information about weather forecast, Marine traffic, Port calls, Tides View, Vessel Tracking

Operational planning. Direct link to wind & weather data that might affect the terminal operations, marine traffic, live Ships map and port calls synchronized vessel scheduling



Port of Miami Management BB Pilots View

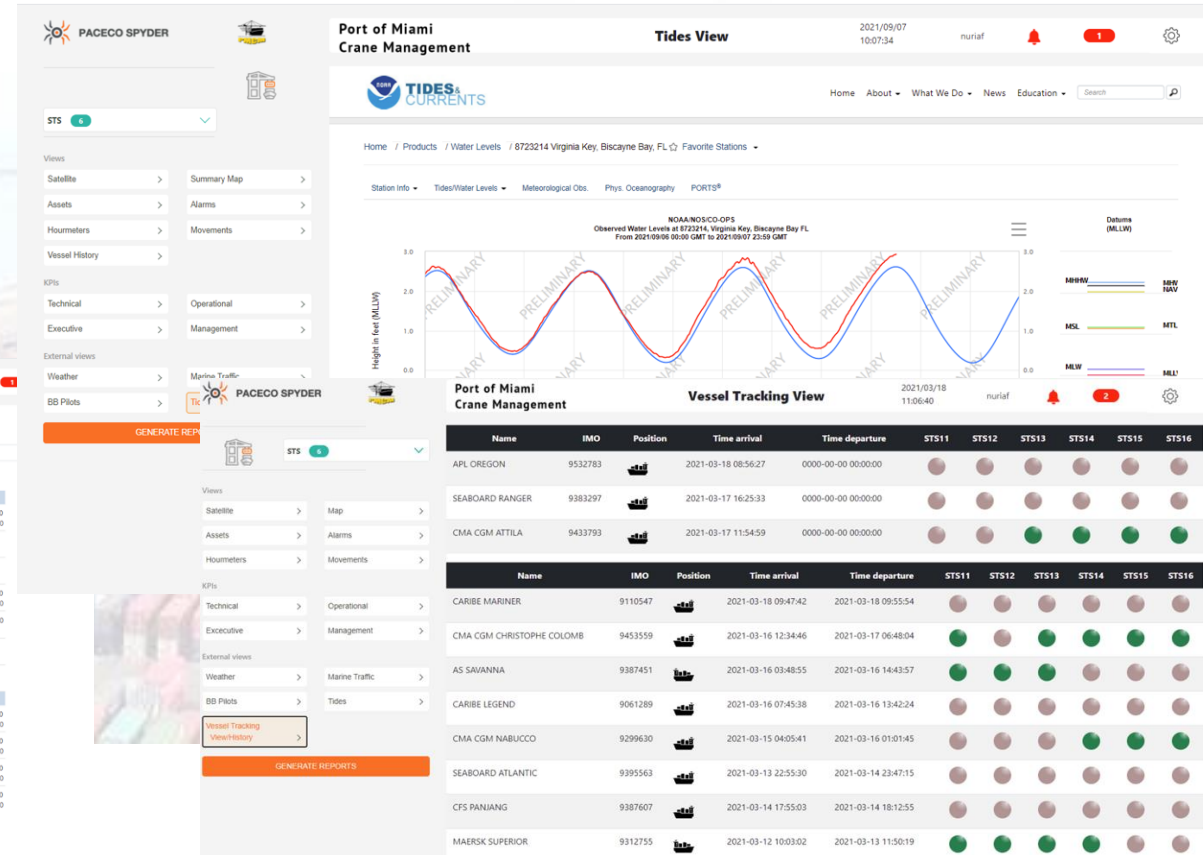
BBPILOTS.COM Rates Requirements & Dimensions

105-375-9453 | dispatch@bbpilots.com

Schedule

As of 10:02 Tue, Sep 07, 2021

Time	Vessel Name	Type	Loc	Lib
09:30	JAN CARIBE	CARGO	160-W (SS)	13:00
15:00	BETTY K VII	RIVER	F127E (MO)	10:00
15:00	JAN CARIBE	CARGO	160-W (SS)	
16:00	CMA CGM TAGE (PPK)	CARGO	110-W (PS)	19:00
18:00	PEPIN EXPRESS	RIVER	F127E (MO)	16:30
22:00	CELEBRITY SUMMIT	CRUISE	P5 G (PS)	18:30
23:00	SARA EXPRESS	RIVER	F127E (MO)	
Wed, Sep 08, 2021				
06:00	CARIBE NAVIGATOR	CARGO	160-W (SS)	08:00
06:00	DIANA J	CARGO	134-E (SS)	08:00
06:00	SEABOARD RANGER	CARGO	160-W (SS)	08:30
08:00	AS SABRINA	CARGO	171-E (SS)	10:00



The screenshot displays the PACECO SPYDER interface for Port of Miami Crane Management. It features a navigation menu on the left with categories like STS, Views, Assets, and KPIs. The main content area is split into two views: 'Tides View' and 'Vessel Tracking View'.

Tides View: Shows a graph of 'Observed Water Levels at 8723214 Virginia Key, Biscayne Bay, FL' from 2021-09-08 00:00 GMT to 2021-09-07 23:59 GMT. The graph plots 'Height in feet (MLLW)' against time, with multiple data series labeled 'PRELIMINARY'.

Vessel Tracking View: Displays a table of vessel arrivals and departures across six STS (STS11 to STS16).

Name	IMO	Position	Time arrival	Time departure	STS11	STS12	STS13	STS14	STS15	STS16
APL OREGON	9532783		2021-03-18 08:56:27	0000-00-00 00:00:00						
SEABOARD RANGER	9388297		2021-03-17 16:25:33	0000-00-00 00:00:00						
CMA CGM ATTILA	9433793		2021-03-17 11:54:59	0000-00-00 00:00:00						
CARIBE MARINER	9110547		2021-03-18 09:47:42	2021-03-18 09:55:54						
CMA CGM CHRISTOPHE COLOMB	9453559		2021-03-16 12:34:46	2021-03-17 06:48:04						
AS SAVANNA	9387451		2021-03-16 03:48:55	2021-03-16 14:43:57						
CARIBE LEGEND	9061289		2021-03-16 07:45:38	2021-03-16 13:42:24						
CMA CGM NABUCCO	9299630		2021-03-15 04:05:41	2021-03-16 01:01:45						
SEABOARD ATLANTIC	9395563		2021-03-13 22:55:30	2021-03-14 23:47:15						
CFS PANIANG	9387607		2021-03-14 17:55:03	2021-03-14 18:12:55						
MAERSK SUPERIOR	9312755		2021-03-12 10:03:02	2021-03-13 11:50:19						

Terminal Digitalisation through smart connection

Track the Historic of your Container's Movements
Second by Second!



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spyder

Historic Data Storage for each container

Container movement duration & container type & number. Type of manoeuvre.

Container cost, active time & productivity.

Net weight and eccentricity calculation.

Trolley & Hoist position: container pick up & delivery position. Failure times and Alarms.

PACECO SPYDER

Port of Miami
Crane Management

Container Movements

2021/09/08
04:13:37

nuriaf

Filter: From 2021-09-08 00:00 To 2021-09-09 00:00

DYNAMIC FILTERING. Showing from 2021-09-08 - 00:00 to 2021-09-09 - 00:00 (undefined)

SP20 SPTW20 Hook Idle Unload Load Crane On Crane Off
 SP40 SP45 H. Cover Men Sea-Sea Land-Land

Export to Excel

TIMES		CONTAINER		MOVEMENTS										FAILURE TIME			WARNING								
STS	Date	Open	End	Type	ID	Mov.	Cost \$	Dur. (s)	T. Act (s)	PR (%)	Net C. Weight (LT)	Weight Ecc.	Energy Cons. (Kwh)	Trolley picked (ft)	Trolley Released (ft)	Hoist Picked (ft)	Hoist Released (ft)	Anticoll. (s)	Snag (s)	e. Stop (s)	Brake	Vib.	Over.	Wind	
STS15	2021-09-07	23:52:32	02:33	X	OCR/TOS		0	601	15	2	0	OK	0%	0	-76.5		116.9	116.9	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:48:32	58:33	X	OCR/TOS		0	601	0	0	0	OK	0%	0	-76.5	-76.5	116.9	116.9	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:50:32	00:34	X	OCR/TOS		0	602	39	6	0	OK	0%	0	-76.5	59.2	116.9	-20.8	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:52:32	02:33	X	OCR/TOS		0	601	71	12	34.7	OK	14%	0	-76.5	-101.4	116.9	52.3	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:52:38	02:39	X	OCR/TOS		0	601	71	12	34.8	OK	14%	0	-76.5	-101.4	116.9	52.3	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:54:32	04:33	X	OCR/TOS		0	601	71	12	35	OK	15%	0	-76.5	-101.4	116.9	52.3	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:56:32	06:33	X	OCR/TOS		0	601	71	12	35.1	OK	15%	0	-76.5	-101.4	116.9	52.3	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	00:58:32	08:33	X	OCR/TOS		0	601	71	12	35.1	OK	15%	0	-76.5	-101.4	116.9	52.3	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:08:33	09:54	OK	OCR/TOS	Land-land	0	81	20	25	34.3	OK	15%	0		-57.9		14.7	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:09:54	10:32	X	OCR/TOS		0	38	30	79	0	OK	0%	0			65.4		41.7	0	0	0	OK	OK	OK
STS15	2021-09-08	01:09:54	11:16	OK	OCR/TOS	Unload	0	82	63	77	24.8	OK	15%	0	65.4	-58.5	27.6	14.6	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:11:16	12:30	OK	OCR/TOS	Unload	0	74	67	91	31.9	OK	13%	0	64.0	-57.5	18.5	14.4	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:12:30	13:55	OK	OCR/TOS	Unload	0	85	72	85	34.5	OK	13%	0	63.7	-57.0	8.7	14.6	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:13:55	15:58	OK	OCR/TOS	Unload	0	123	97	79	32.5	OK	16%	0	64.1	-57.7	-0.7	14.6	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:15:58	18:42	OK	OCR/TOS	Unload	0	164	120	73	34.1	WARN.	39%	0	63.5	-57.8	-10.2	14.6	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:18:42	20:10	OK	OCR/TOS	Unload	0	88	79	90	37.6	OK	12%	0	65.1	-56.8	-20.1	14.5	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:20:10	21:54	OK	OCR/TOS	Unload	0	104	86	83	39	OK	13%	0	65.7	-57.9	-28.9	14.6	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:21:54	23:22	OK	OCR/TOS	Unload	0	88	78	89	33.6	OK	14%	0	74.0	-57.0	-9.4	14.7	0	0	0	OK	OK	OK	OK
STS15	2021-09-08	01:23:22	25:47	OK	OCR/TOS	Unload	0	145	80	62	36	OK	14%	0	72.5	-56.5	-20.2	14.6	0	0	0	OK	OK	OK	OK

STS e

Views

Satellite >

Assets >

Houmeters >

Vessel History >

KPIs

Technical >

Executive >

External views

Weather >

BB Pilots >

Summary Map >

Alarms >

Movements >

Operational >

Management >

Marine Traffic >

Tides >

GENERATE REPORTS

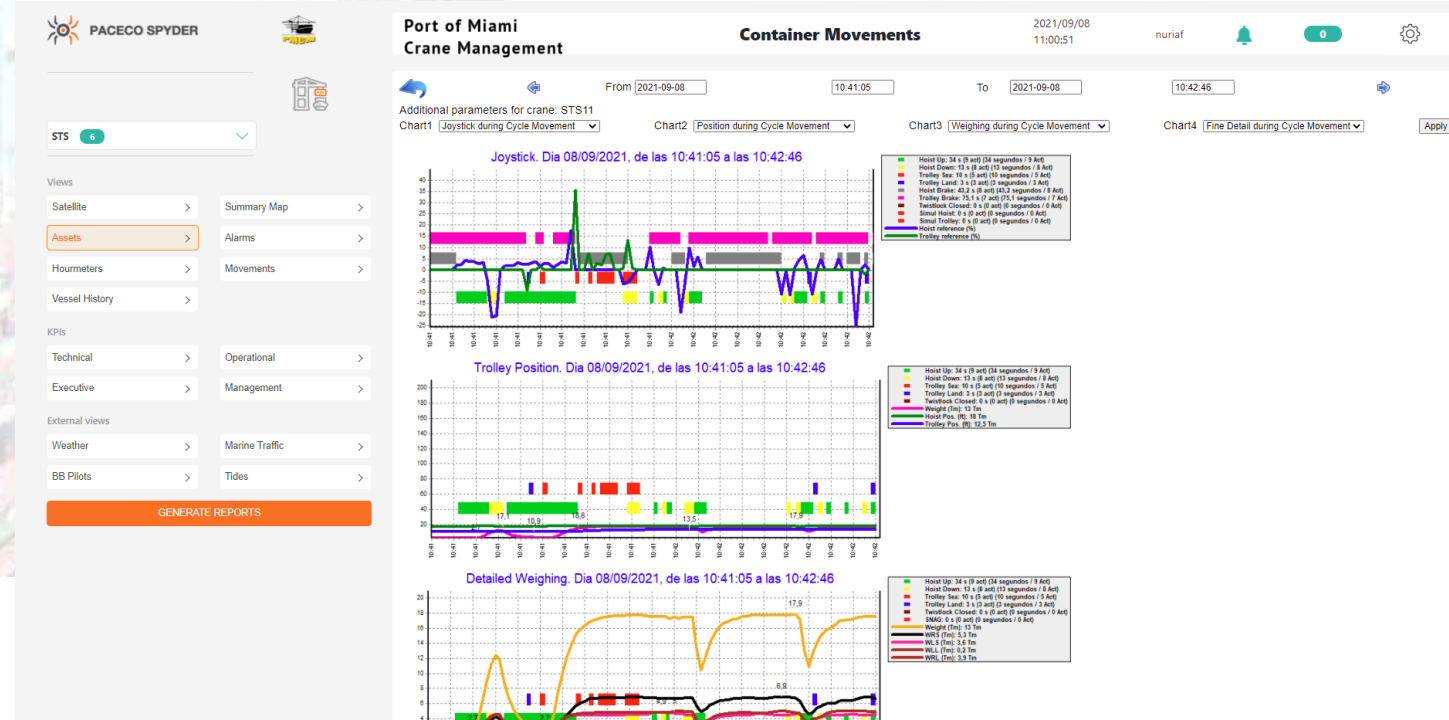
Terminal Digitalisation through smart connection

Track the Historic Performance of your Container Movements Second by Second!



Historic graphic analysis of each container movement

Container graphic traceability.
Histogram of joystick movement,
histogram of trolley position,
Histogram of container pin weight
Joystick, position, weighing and
fine detail during cycle movement



Terminal Digitalisation through smart connection



Historic monitoring of each container movement

Container Traceability:

Historic monitoring: second by second of each single container movement.

Time & operation peaks detection

PACECO SPYDER

2021/09/22 06:08:49
nuriaf
0

DYNAMIC FILTERING Showing from 20/09/2021 00:00 to 23/09/2021 00:00

Filters: STS11 previous From: 20/09/2021 00:00 To: 23/09/2021 00:00 next apply

Show 25 entries

Date	Status				Weighing				Anti Collision				Alarms			Brakes										
	Tw.	H	Pos. H(m)	G T	Pos. T(m)	H-T	B	Av.	Man.	P1(Tm)	P2(Tm)	P3(Tm)	P4(Tm)	Wind (m/s)	Temp. (°C)	ACLSL	ACLSR	BACL	BACR	E-Stop	Snag	Spf	T-eH	Main H.	T	Boom H.
2021-09-22 06:05:43	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.8	23.1																
2021-09-22 06:05:44	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.6	23																
2021-09-22 06:05:45	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23.1																
2021-09-22 06:05:46	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																
2021-09-22 06:05:47	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																
2021-09-22 06:05:48	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																
2021-09-22 06:05:49	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23.2																
2021-09-22 06:05:50	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23.2																
2021-09-22 06:05:51	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																
2021-09-22 06:05:52	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23.1																
2021-09-22 06:05:53	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																
2021-09-22 06:05:54	16.1	16.1	16.1	-25.7	7.2	4.1	1.7	5	2.4	23																

Showing 193.301 to 193.312 of 193.312 entries

First Previous Page 7733 of 7733 Next Last

Views

Satellite >

Assets >

Hourmeters >

Vessel History >

Summary Map >

Alarms >

Movements >

KPIs

Technical >

Executive >

Operational >

Management >

External views

Weather >

BB Pilots >

Marine Traffic >

Tides >

GENERATE REPORTS

Terminal Digitalisation through smart connection



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Historic Statistic Dynamic Charts

Technical, Operational, Executive and Management oriented views.

Wide range of KPIs:

Types of movements, energy, active time, productivity, average cost, average cycle duration, etc. for each asset and any time period.

Views

- Satellite >
- Assets >
- Houmeters >
- Vessel History >
- Summary Map >
- Alarms >
- Movements >

KPIs

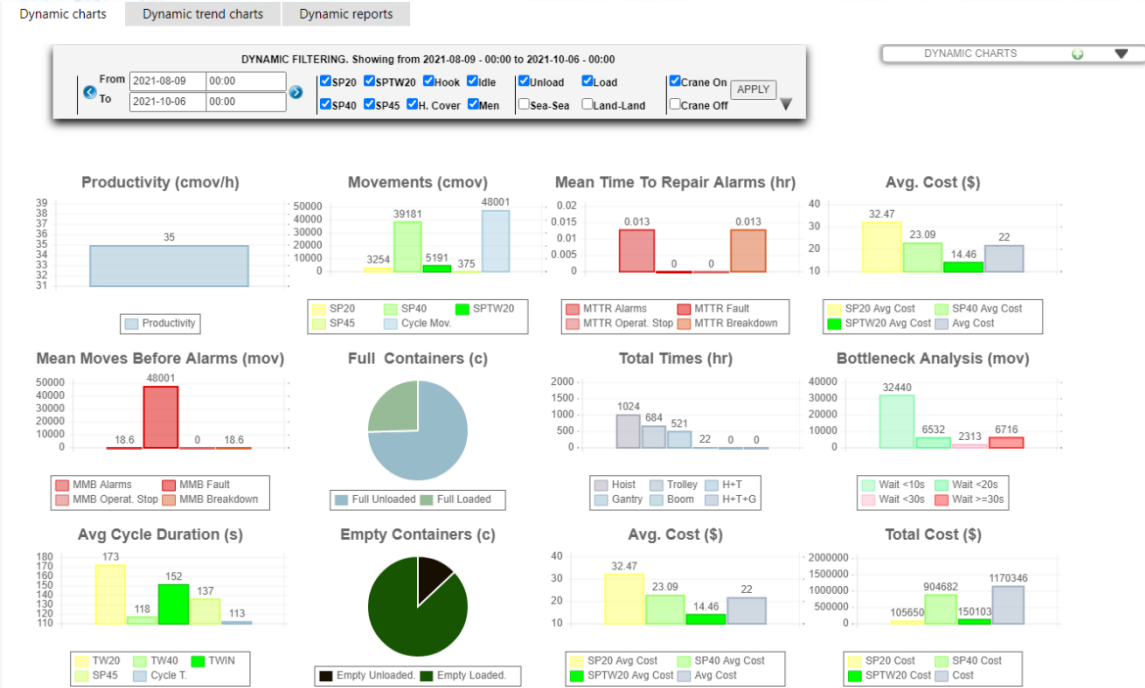
- Technical >
- Operational >
- Executive >
- Management >

External views

- Weather >
- BB Pilots >
- Marine Traffic >
- Tides >

ST5 6

GENERATE REPORTS



Terminal Digitalisation through smart connection



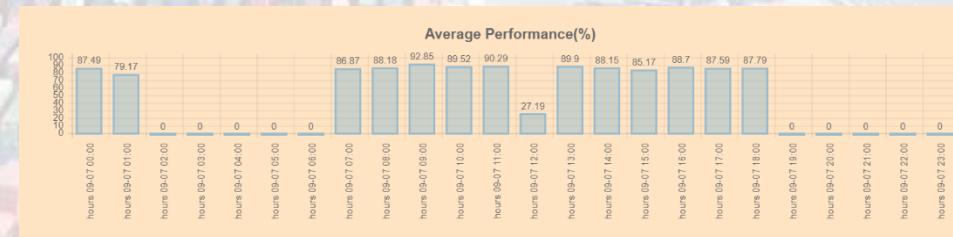
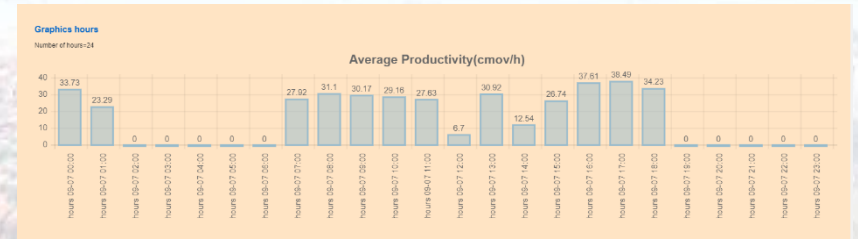
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spyder

Historic Statistic Trend Charts

Choose from the list between a wide range of KPIs you would like to Visualize to run your business

CHARTS

- Average Productivity
- Average Standby Time
- Average Performance
- Maximum KW Peak
- Maximum Energy Consumpt
- Average Energy Generated
- Total Movements
- Total Movements
- Total Movements
- TW20
- TW40
- TWIN
- Download
- Load
- Sea-Sea
- Land-Land
- Average Tare
- Average Weight
- Maximum Weight
- Average Total Power
- Average Energy Consumption
- Maximum Energy Consumption
- Total Energy Consumption
- Average Energy Generated
- Maximum Energy Generated
- Average Duration
- Average Standby Time
- Total Idle Time



Terminal Digitalisation through smart connection



Statistic Dynamic Reports CUSTOMIZED REPORTS:

In terms of data, time period & asset that may be exported to an Excel sheet

CHOICE OF DATA
Which particular asset, in which particular time section (hours, turns, etc.) & time period you want to visualize.

Further, you have the possibility to choose between a wide range of KPI's.

Showing from 30/07/2019 - 00:00 to 31/07/2019 - 00:00 (0)

Filter: QC01 | Report: Hours | From: 11/07/2019 00:00 | To: 12/07/2019 00:00

Dynamic Tables:

- Total Duration
- Maximum KW Peak
- Average Standby Time
- Average Energy Consumption
- Maximum Energy Consumption
- Total Energy Consumption
- Total Idle Time
- Sea-Sea
- Average Duration
- Total Idle Time

CRANE	REPORT	DATE	Total Duration(H)	Maximum KW Peak(kW)	Aver. Time
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	
QC01	hours	2019-07-11	0	0	

Showing 1 to 10 of 24 entries

Dynamic Tables:

- Total Duration
- Maximum KW Peak
- Average Standby Time
- Average Energy Consumption
- Maximum Energy Consumption
- Total Energy Consumption
- Total Idle Time
- Sea-Sea
- Average Duration
- Total Idle Time
- Only Trolley per Cycles Mov.
- Hoist Hourmeter
- TR Brake Act. per Cycles M.
- H-T Hourmeter
- Average H-T Time
- Gantry Hourmeter
- Average Gantry Time
- Boom Hourmeter
- Average Boom Time
- Gantry per Cycles Movement
- Only Trolley per Cycles Movement
- Hoist per Cycles Movement
- H-T per Cycles Movement
- Gantry per Movement
- Only Trolley per Movement
- Hoist per Movement
- H-T per Movement
- Total Energy Generated
- Pos: Gantry Der
- MH Brake Time per Cycles Movement
- TR Brake Time per Cycles Movement
- MH Brake Act. per Cycles Movement
- TR Brake Act. per Cycles Movement

Summary Table:

Total Energy Consumption(kWh)	Total Idle Time(H)	Sea-Sea(cmov)	Average Duration(s)	Total Idle Time(H)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

Showing 1 to 10 of 24 entries

Dynamic Tables:

- H-T Hourmeter
- Average H-T Time
- Gantry Hourmeter
- Average Gantry Time
- Boom Hourmeter
- Average Boom Time
- Gantry per Cycles Movement
- Only Trolley per Cycles Movement
- Hoist per Cycles Movement
- H-T per Cycles Movement
- Gantry per Movement
- Only Trolley per Movement
- Hoist per Movement
- H-T per Movement
- Total Energy Generated
- Pos: Gantry Der
- MH Brake Time per Cycles Movement
- TR Brake Time per Cycles Movement
- MH Brake Act. per Cycles Movement
- TR Brake Act. per Cycles Movement

TR E... meterCycl... (act)

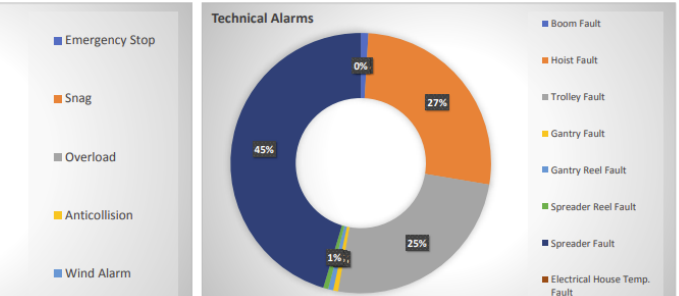
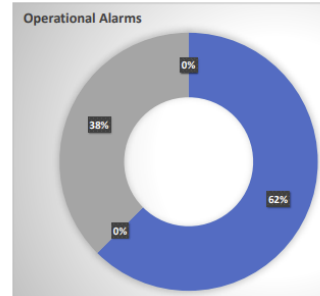
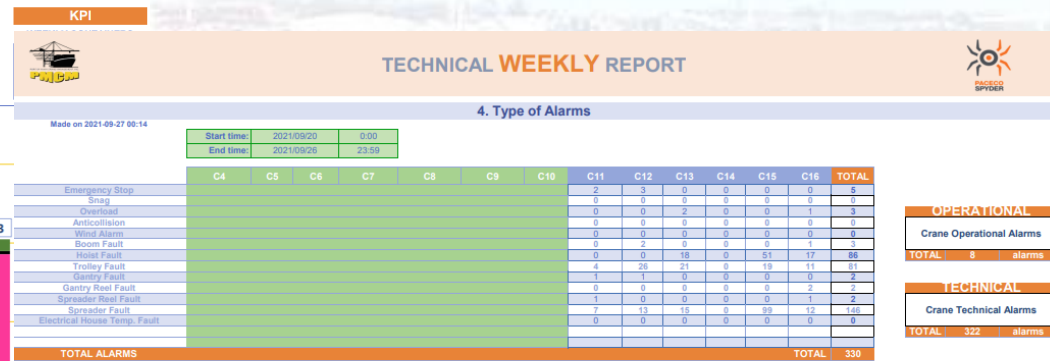
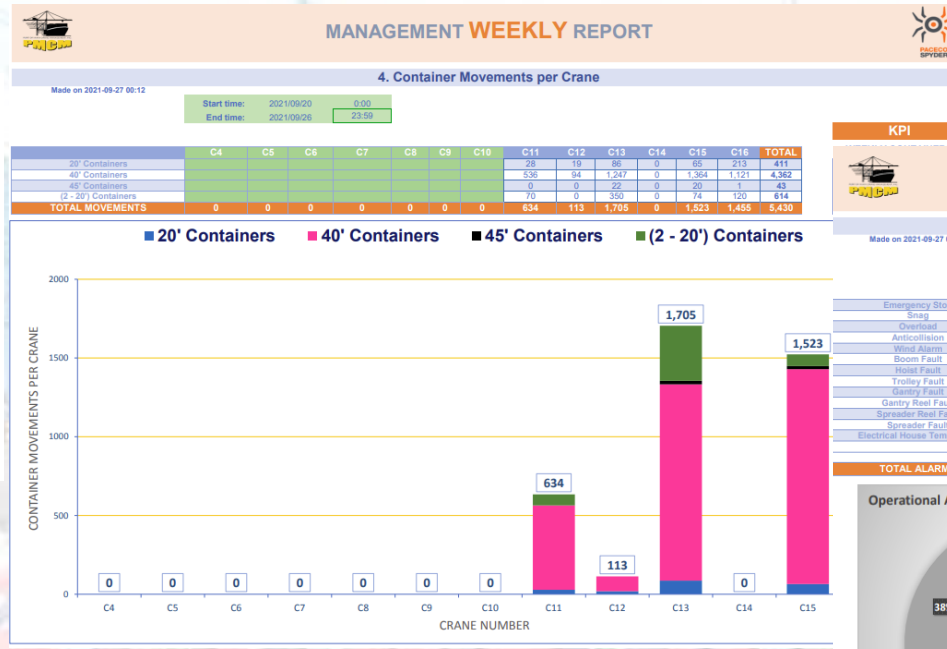
Previous 1 2 3 Next

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Automated customized operational and technical reports

Choose between the wide range of KPIs you want to be shown within your daily, weekly, monthly & yearly reports



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Cryptoeconomy (Blockchain)

Through the processes and huge amounts of valuable obtained data, we carry out cryptoeconomic studies to analyse processes and cycles down to the smallest detail

STS Year
STS04
STS05
STS06
STS07

COST	INCOME
Cost Kwh: <input type="text" value="0"/>	
Labor Cost per hour (Day): <input type="text" value="0"/>	
Labor Cost per hour (Nightly): <input type="text" value="0"/>	
Labor Cost per hour (Festive/Sunday): <input type="text" value="0"/>	
Maintenance Cost per Year: <input type="text" value="0"/>	
Amortization Cost per Year: <input type="text" value="0"/>	
Estimated Moves per Year: <input type="text" value="0"/>	
Estimated Maintenance Cost per Container: <input type="text" value="0"/>	
Estimated Amortization Cost per Container: <input type="text" value="0"/>	
	INCOME PER MOVEMENT/CONTAINER <input type="text"/>

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Technical Documentation

Safe all the documents concerning your assets and terminal such as statistics, manuals, maintenance protocols, reports, schedules, saved analytics, drawings, etc. at one spot for easy consulting

The screenshot displays the Paceco Spyder web application interface. The top navigation bar includes the Paceco Spyder logo, the user's name 'nuriaf', the date '2021/11/10 04:14:36', and a notification bell icon. The main content area is titled 'Port of Miami Crane Management' and 'Satellite View'. A sidebar menu on the left lists various views and reports, including 'STS 6', 'Views' (Satellite, Summary Map, Assets, Alarms, Hourmeters, Movements, Vessel History), 'KPIs' (Technical, Operational, Executive, Management), and 'External views' (Weather, Marine Traffic, BB Pilots, Tides). A 'GENERATE REPORTS' button is located at the bottom of the sidebar. The main content area features a 'DOCUMENTS' table with the following rows:

DOCUMENTS	
Description of Statistical Calculations	
Manuals.	
Maintenance.	
Reports.	
Schedules.	
Saved Analytics.	
Drawings.	

An 'Upload Document' button is located at the bottom right of the interface.

Terminal Digitalisation through smart connection

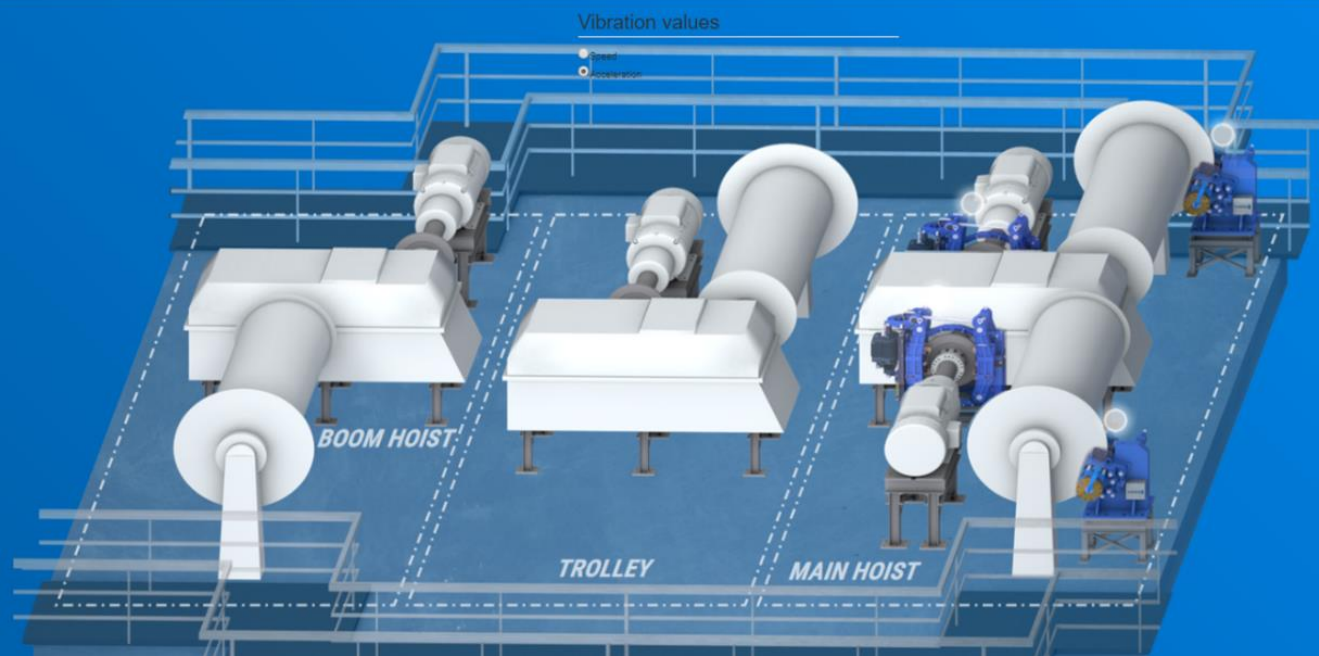


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Machinery House Module

Technical study of reducer gear and motors in the machinery house: Boom Hoist, Trolley & Main Hoist.

Portainer	Date	Time	State	Hoist	Trolley	m/s	Tm
STS04 ▼	dd/mm/yyyy	hh:mm				x,x	x,x



Digitalisation Benefits



MAINTENANCE

- Smoothness in MN operations
- Assets to full capacity
- Controlled bottlenecks
- Controlled downtimes
- Alignment with Operations
- Asset to full service life

OPERATIONS

- Smoothness in OP operations
- Assets to full capacity
- Controlled bottlenecks
- Controlled downtimes
- Alignment with Maintenance

FINANCE

- Reliable decision making
- Terminal performance increase
- Terminal profitability increase
- Terminal working to its full capacity
- Life-cycle cost reduction
- Convenient ROI
- Energy consumption efficiency

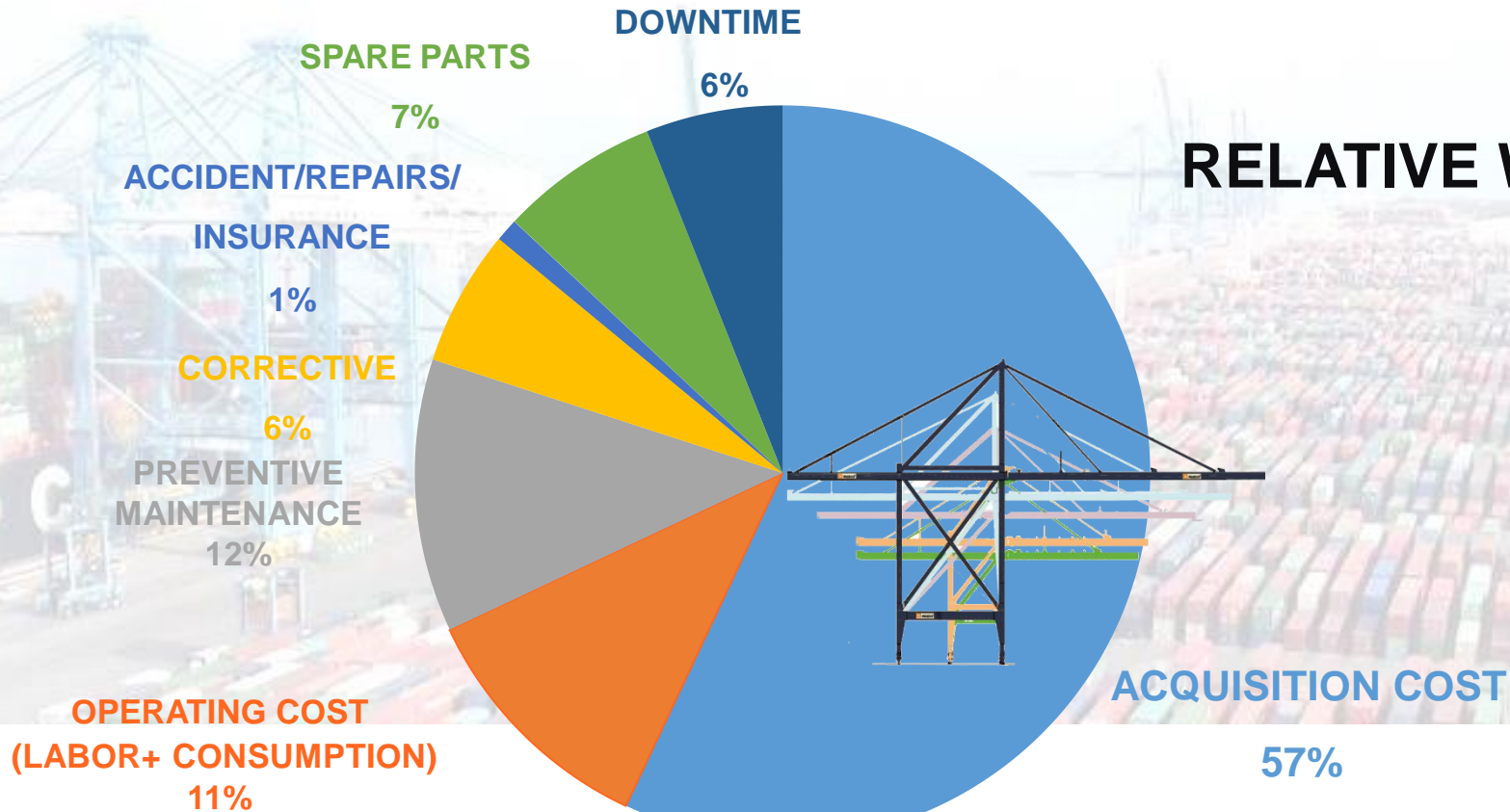
MANAGEMENT

- Reliable real data based decision making
- Smooth port management
- Terminal competitiveness
- Expanded terminal capacities
- Terminal sustainability
- Green Terminal support

Life Cycle Cost Analysis STS-PORTAINER (100%) UE



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RELATIVE WEIGHT IN LCC (STS)

ROI (STS-Portainer) UE



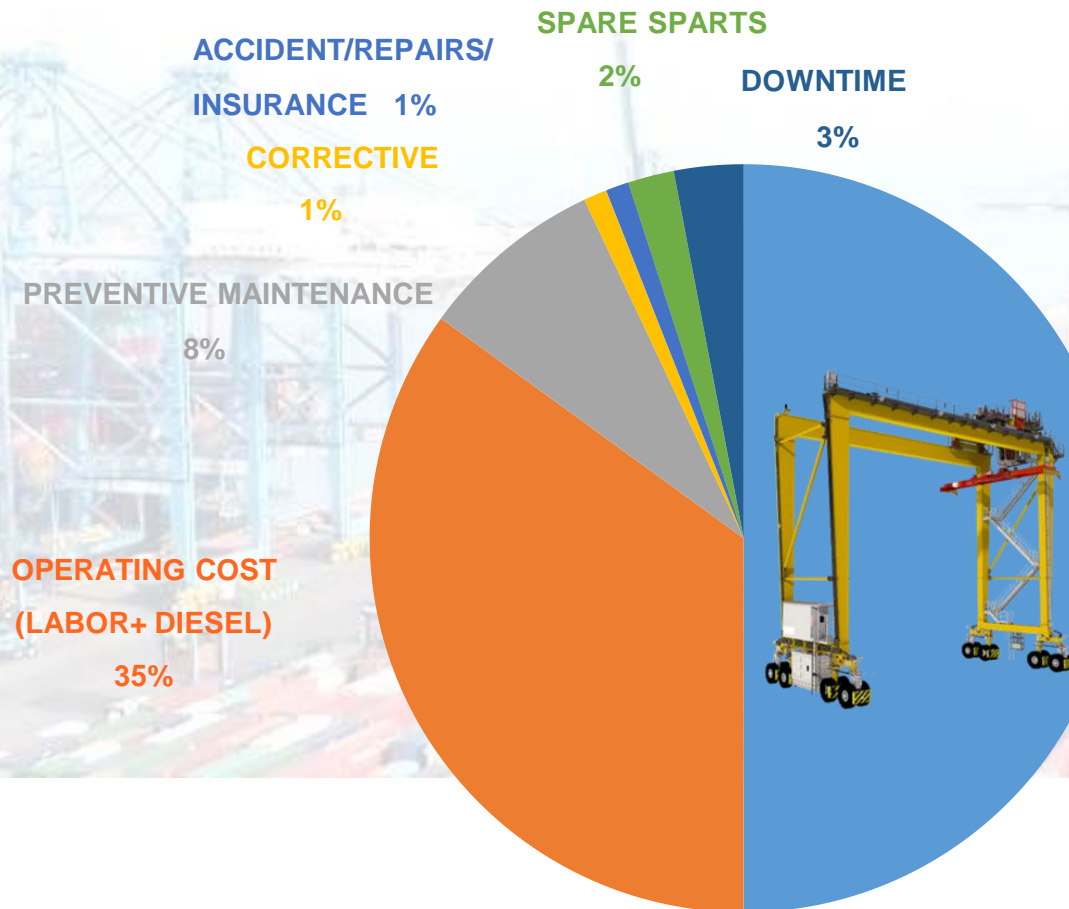
LIFE CYCLE COST (STS)

	LIFE CYCLE COST (STS CRANE)	%	20 YEARS	1 YEAR	EXPECTED COST REDUCTION WITH PACECO SPYDER UP TO	COST SAVING IN 1 YEAR (€)	EXPLANATION
AC	ACQUISITION COST	57%	6.500.000	325.000	0%	0%	
OP	OPERATING COST (LABOR & CONSUMPTION)	11%	1.254.386	62.719	10%	6.272	PRODUCTIVITY INCREASE
PMC	PREVENTIVE MAINTENANCE	12%	1.368.421	68.421	15%	10.263	PREVENTIVE MAINTENANCE REDUCTION
CTV	CORRECTIVE	6%	684.211	34.211	15%	5.132	CONSEQUENCE OF HIGHER EFFICIENCY IN MAINTENANCE
RRC	ACCIDENTS/REPAIRS	1%	114.035	5.702	0%	0	ACCIDENTS NOT TO BE FORECASTED
IHC	SPARE PARTS	7%	798.246	39.912	10%	3.991	SPARE PARTS ROTATION OPTIMIZATION
ODC	DOWNTIME	6%	684.211	34.211	15%	5.132	PAST & FUTURE DOWNTIME REDUCTION
	TOTAL ESTIMATED	100%	11.403.509	570.176		30.789	

Life Cycle Cost Analysis RTG-TRANSTAINER (100%) UE



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RELATIVE WEIGHT IN LCC (RTG)

ACQUISITION COST
50%

ROI (RTG-Transtainer) UE



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LIFE CYCLE COST (RTG)

	LIFE CYCLE COST (RTG CRANE)	%	20 YEARS	1 YEAR	EXPECTED COST REDUCTION WITH PACECO SPYDER UP TO	COST SAVING IN 1 YEAR (€)	EXPLANATION
AC	ACQUISITION COST	50%	1.450.000	72.500			
OP	OPERATING COST (LABOR & CONSUMPTION)	35%	1.015.000	50.750	10%	5.075	PRODUCTIVITY INCREASE
PMC	PREVENTIVE MAINTENANCE	8%	232.000	11.600	35%	4.060	PREVENTIVE MAINTENANCE REDUCTION
CTV	CORRECTIVE	1%	29.000	1.450	35%	508	CONSEQUENCE OF HIGHER EFFICIENCY IN MAINTENANCE
RRC	ACCIDENTS/REPAIRS	1%	29.000	1.450	0%	0	ACCIDENTS NOT TO BE FORECASTED
IHC	SPARE PARTS	2%	58.000	2.900	10%	290	SPARE PARTS ROTATION OPTIMIZATION
ODC	DOWNTIME	3%	87.000	4.350	25%	1.088	PAST & FUTURE DOWNTIME REDUCTION
	TOTAL ESTIMATED	100%	2.900.000	145.000		11.020	

Yearly obtained ROI



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MACHINE	NUMBER OF ASSETS	YEARLY SAVINGS	TOTAL YEARLY ROI PER ASSET FAMILY
Portainer STS Crane	9	30.789	277.105
Transtainer RTG Crane	15	11.020	165.300

TOTAL YEARLY TERMINAL ROI

442.405 €/YEAR

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PACECO GROUP

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PACECO MOMENTUM & POSEIDON

Tel: (34) 91 761 97 00

info@paceco-momentum.com

www.paceco-momentum.com

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