Measuring Shipping Connectivity and performance

Making more data available

MarineTraffic

Argyris Stasinakis
Executive Partner

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6.5 million monthly unique visitors

500 thousand daily visits

1+ million registered users

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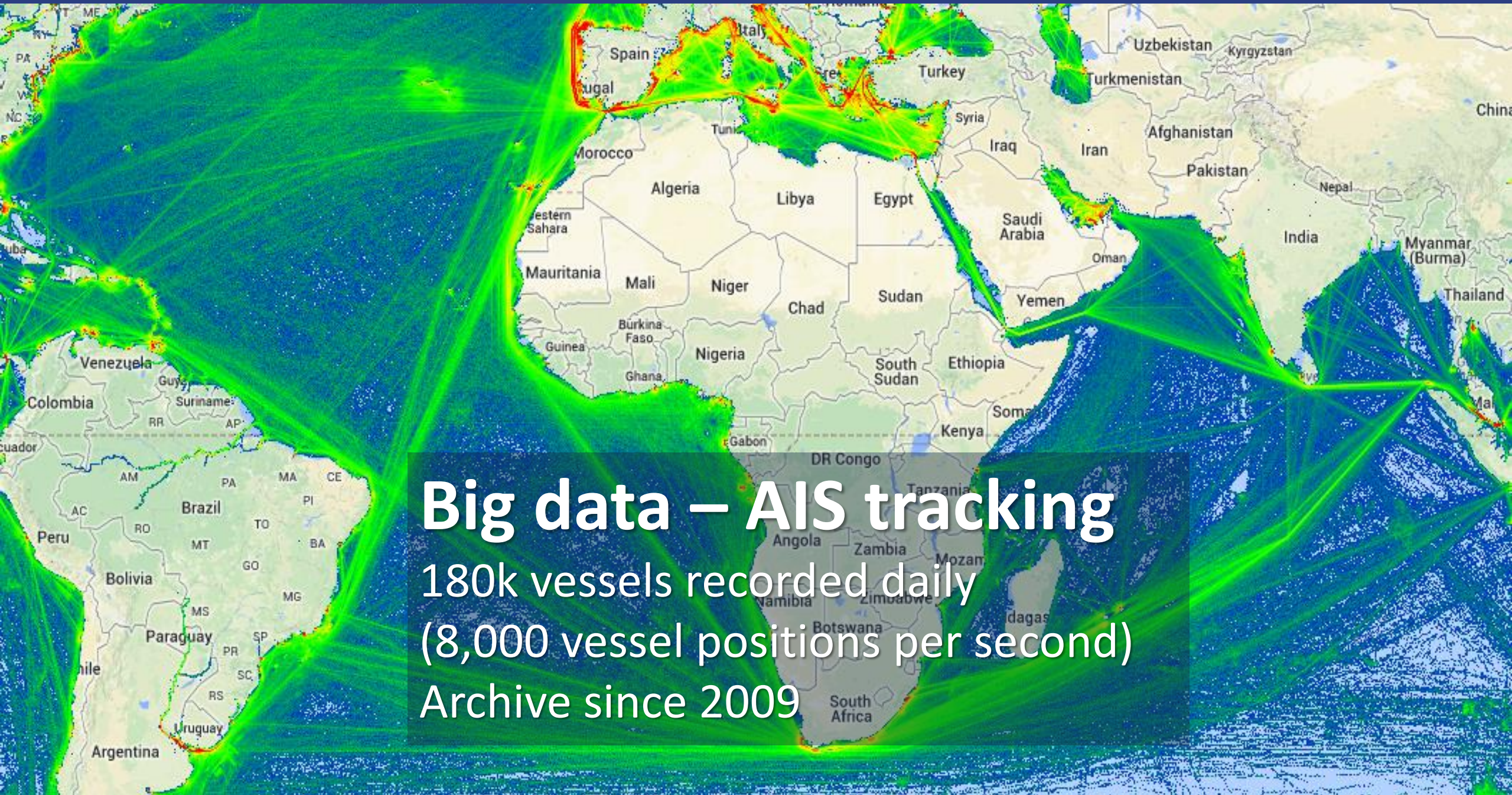

Big data – AIS tracking

180k vessels recorded daily

(8,000 vessel positions per second)

Archive since 2009

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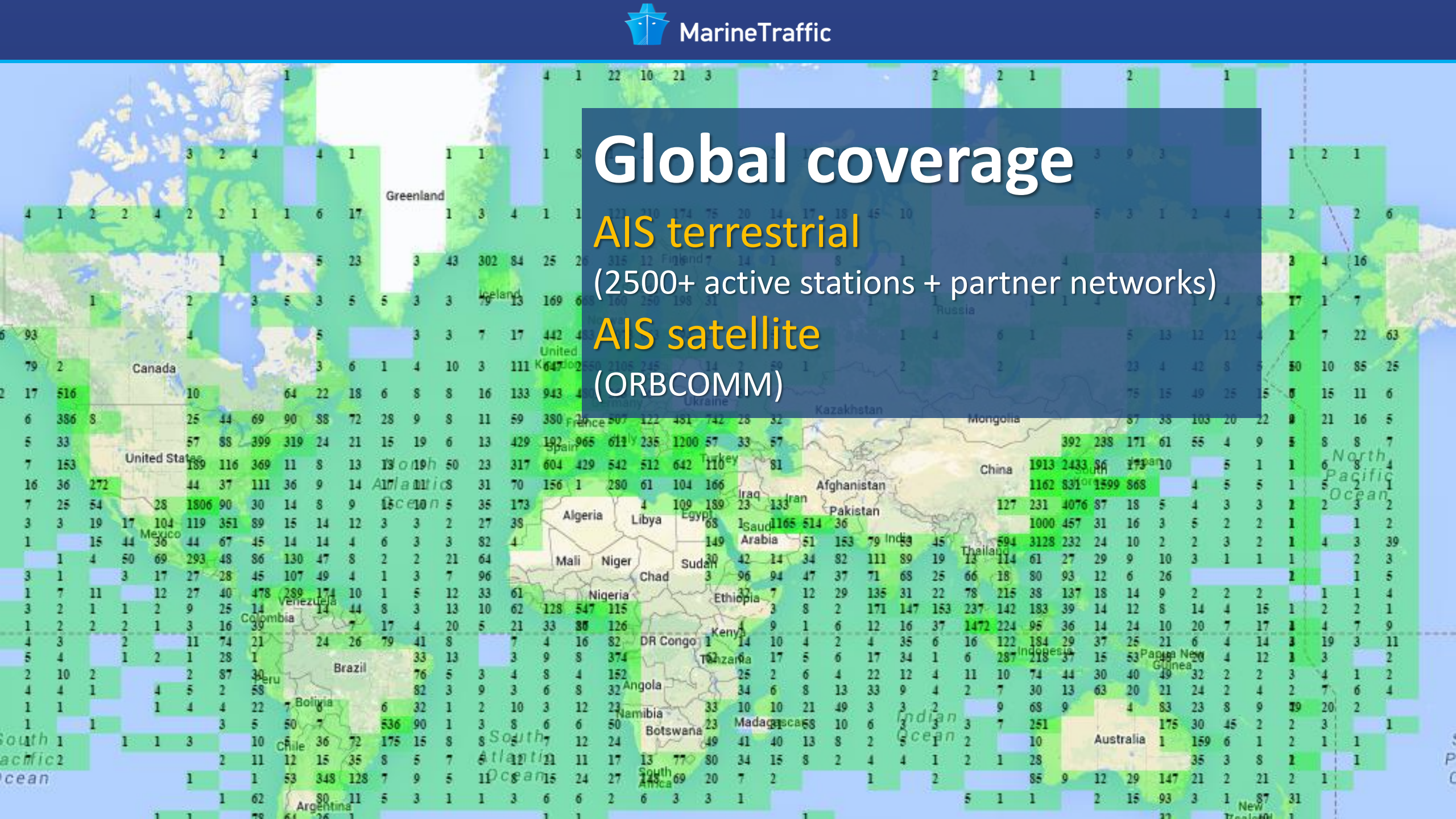

Global coverage

AIS terrestrial

(2500+ active stations + partner networks)

AIS satellite

(ORBCOMM)

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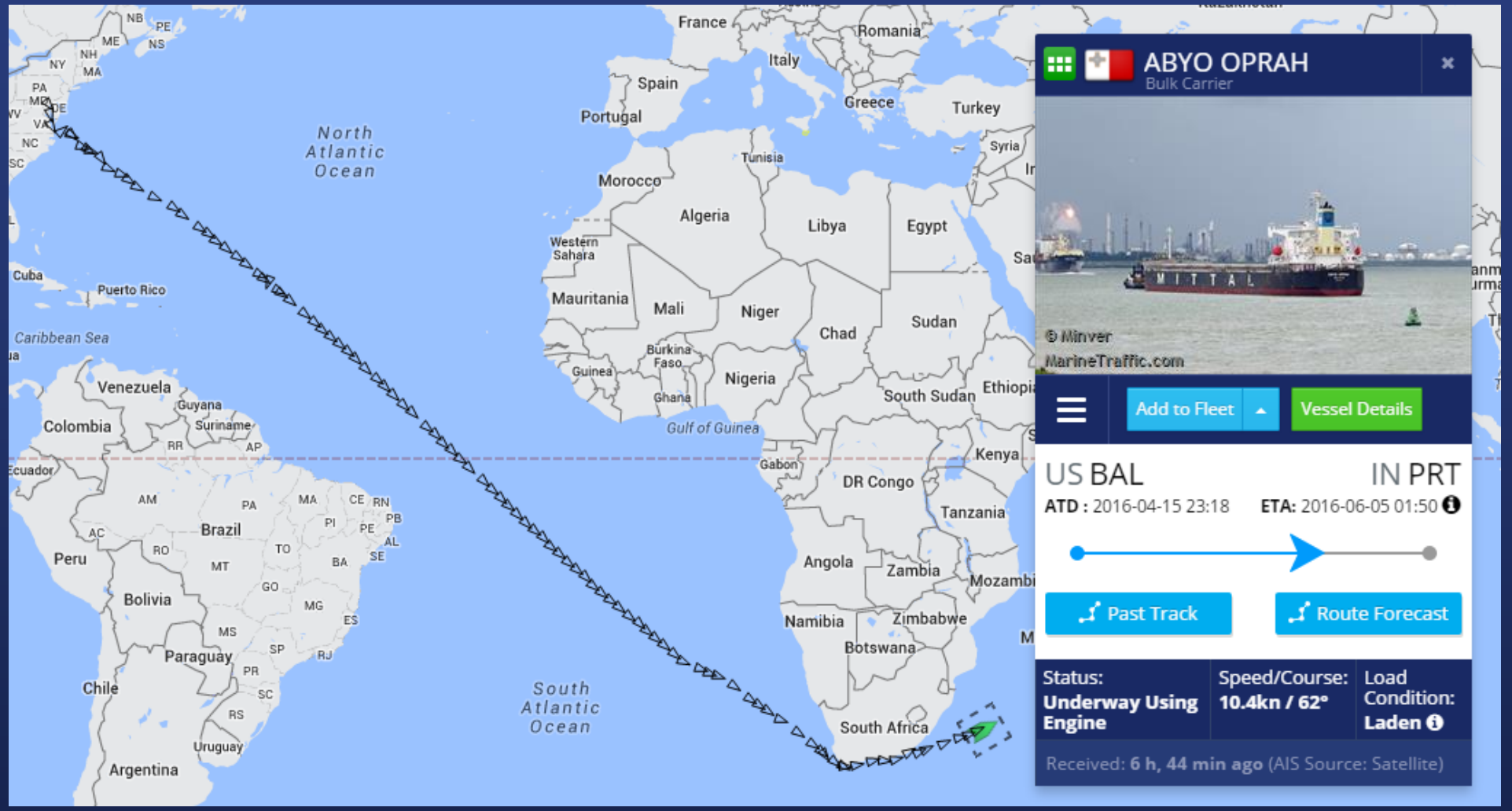
Vessel track history



ABYO OPRAH
Bulk Carrier,
From Baltimore (US)
To Paradip (IN)

Voyage

ATD:	15 April	23:18
Reported ETA:	5 June	08:00
Calculated ETA:	4 June	01:50

Laden

Reported draught:	14.0m
Max Draught:	14.6m
Draught ratio:	96%

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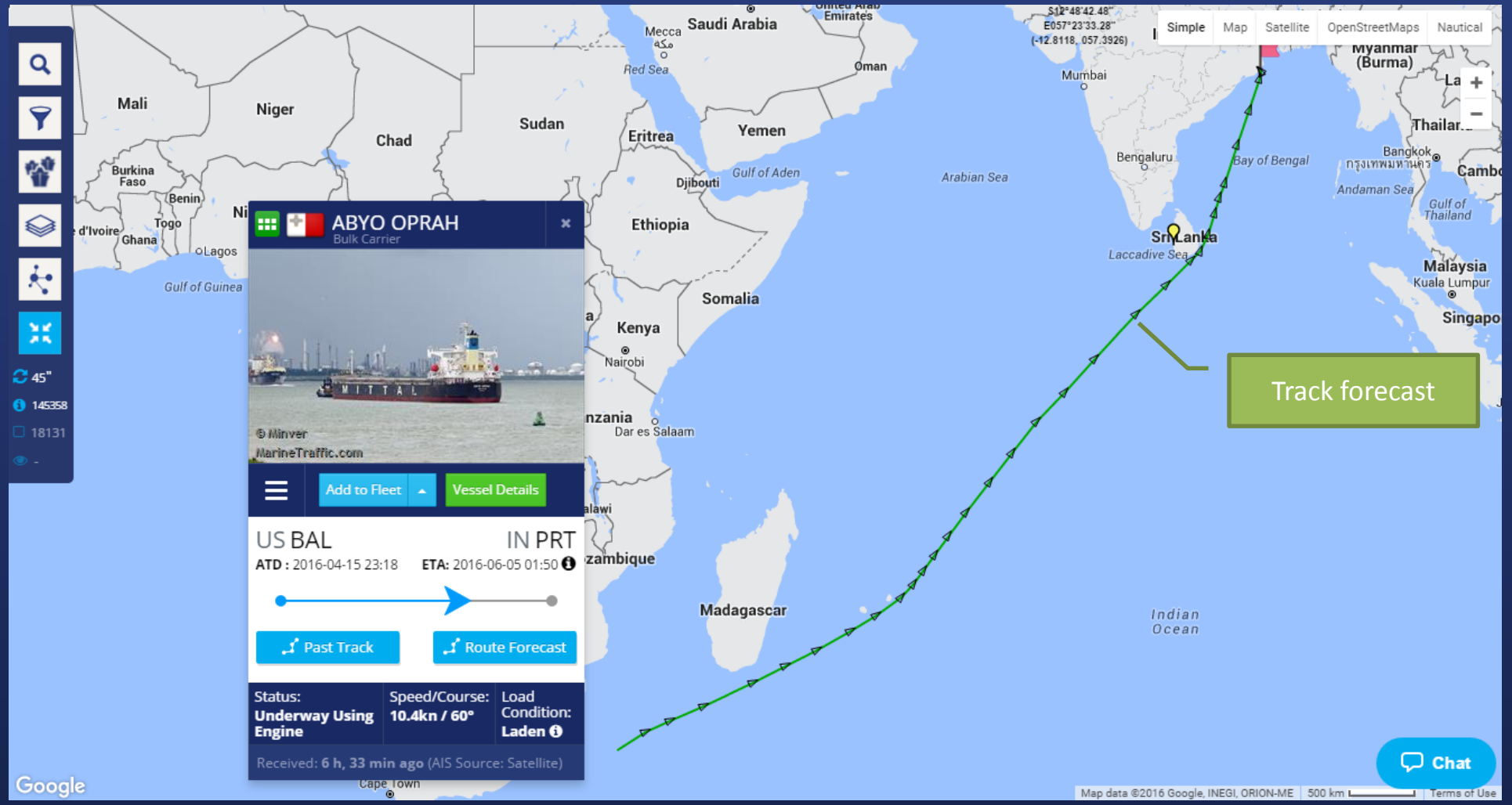
Vessel voyage and ETA forecasting



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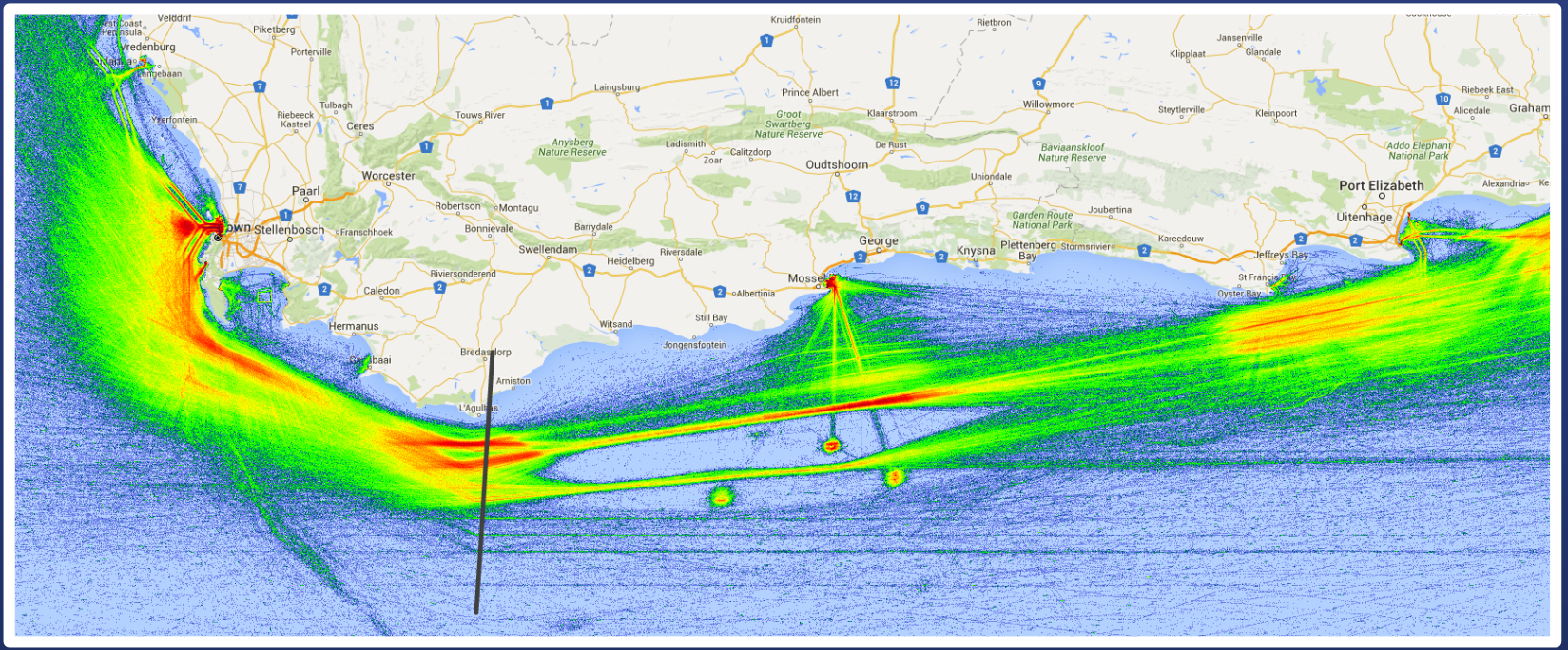
Events: passage crossings



Vessel Name	Time (UTC)	Event	Area	Port	Speed (kn)	Course (°)	Latitude (°)	Longitude (°)	Show on Map
ABYO OPRAH	2016-05-14 08:43	Noon position	South Africa		11.1	112	-34.62384	18.74663	
ABYO OPRAH	2016-05-14 13:05	In Range	South Africa		10.7	106	-34.89826	19.6549	
ABYO OPRAH	2016-05-14 15:04	Crossed Strait or Passage	South Africa		10.5	79	-34.93272	20.06769	
ABYO OPRAH	2016-05-14 22:28	In Range	South Africa		11.1	75	-34.55052	21.64219	

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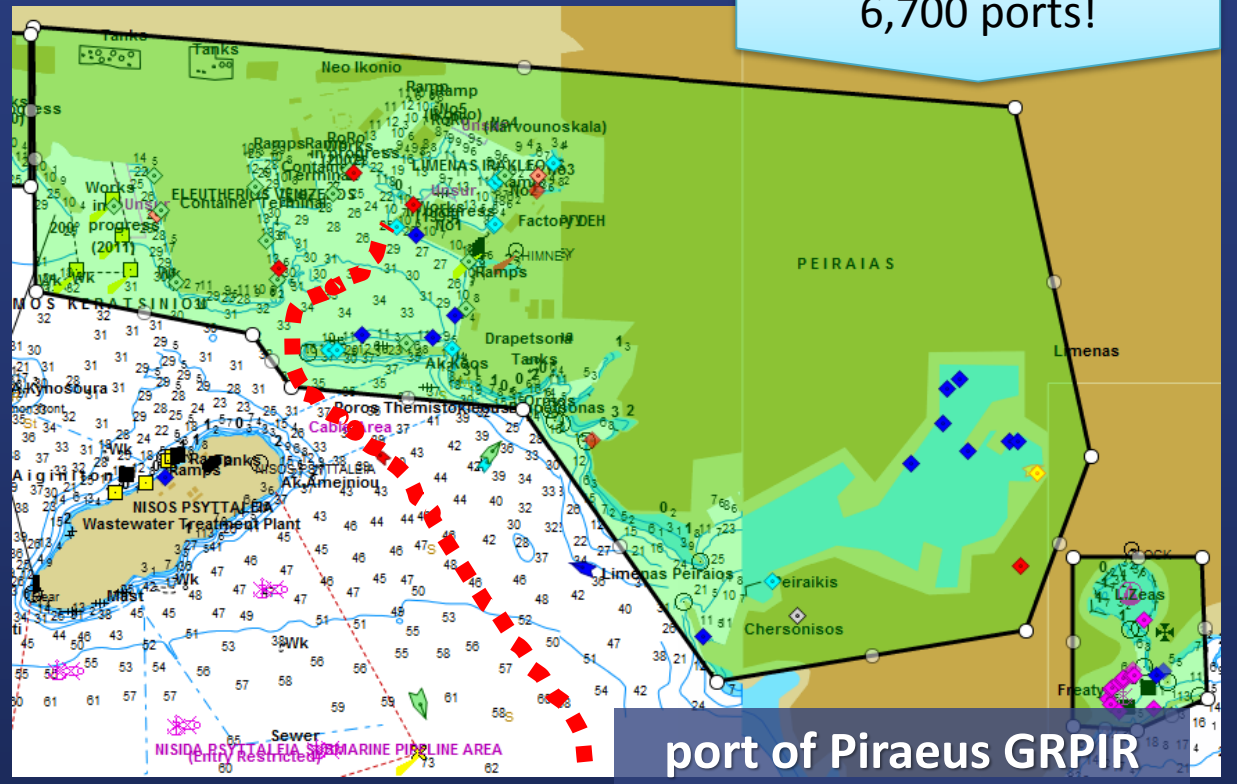
Ports and Port Calls

- Boundaries
- UNLocodes
- Time zones and DST (Daylight Saving Time)
- Designation as Port, Anchorage, Marine, Offshore facility
- arrivals and departures are monitored in real time

monitoring more than 6,700 ports!



port call	vessel ID port ID Time and type (arrival or departure) draught (real time)

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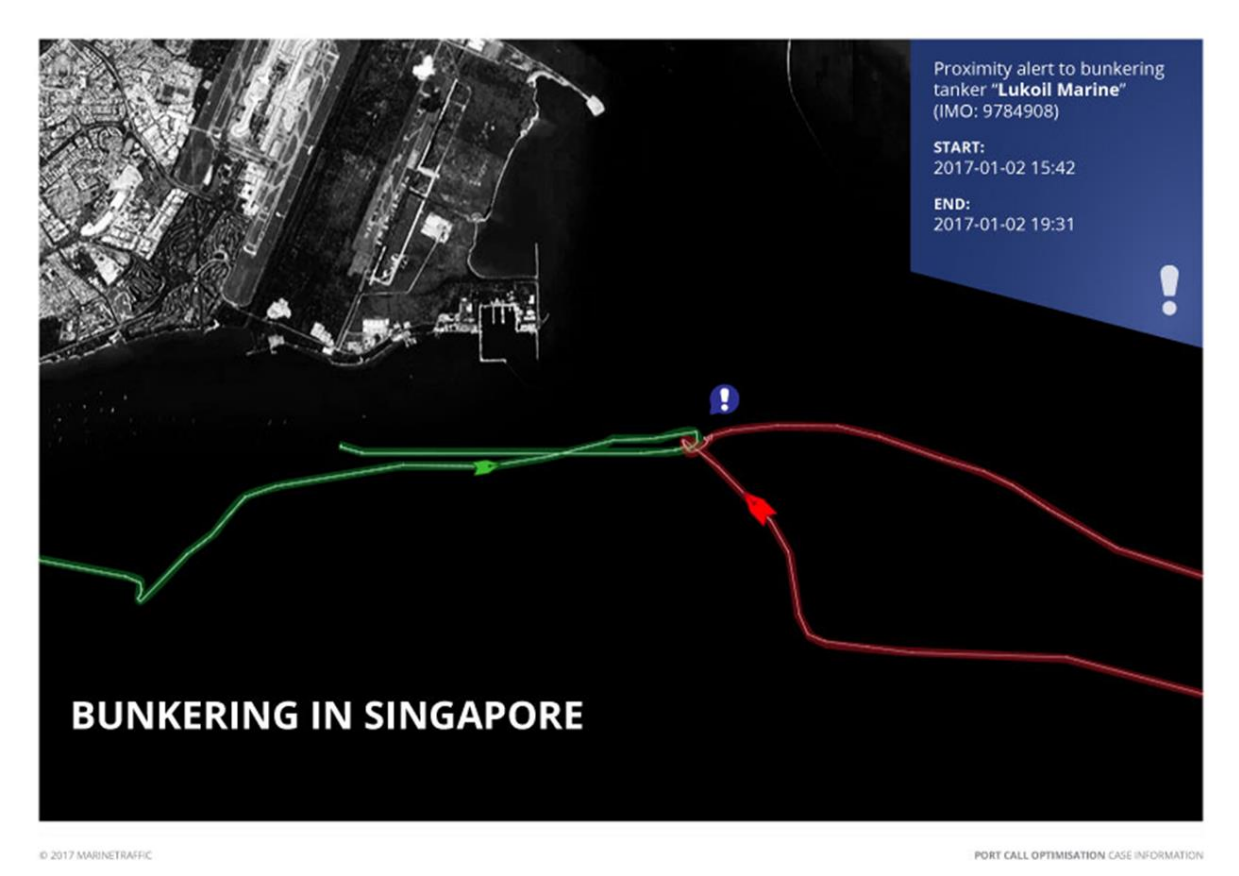
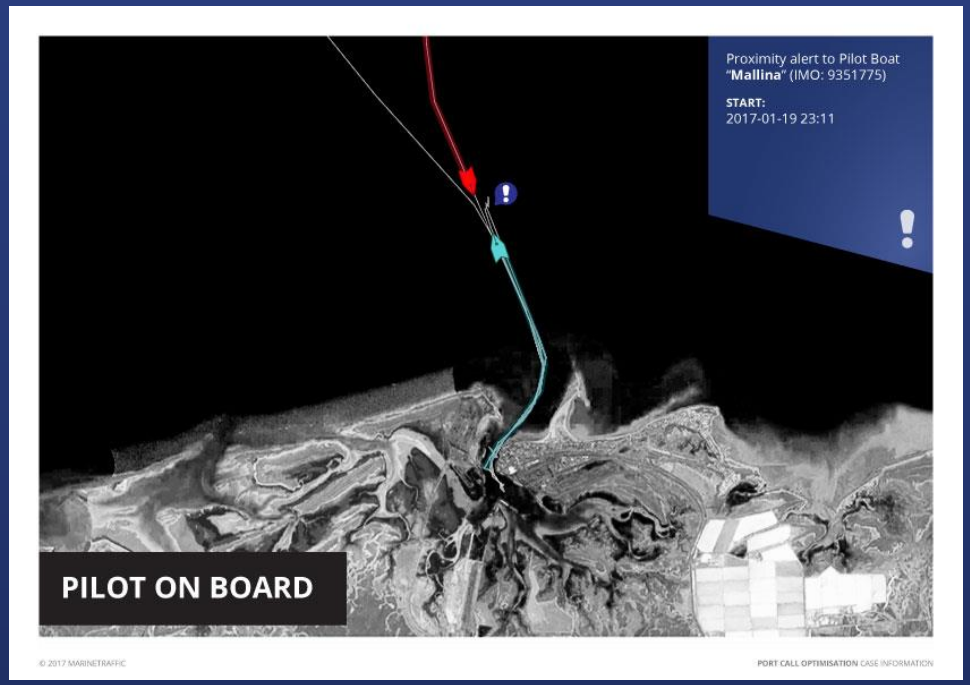
Events: proximity measured





DREAM POWER
(9515175)

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quick Case study: Port Hedland – berth PH4

Berths are geo-fenced

and

arrivals and departures are recorded in real-time

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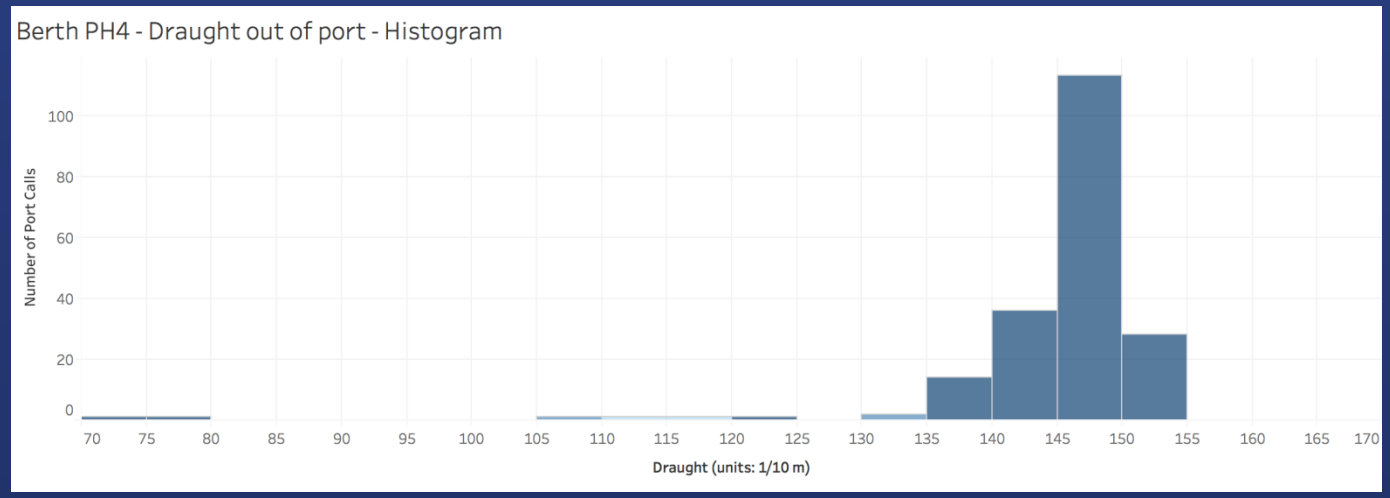
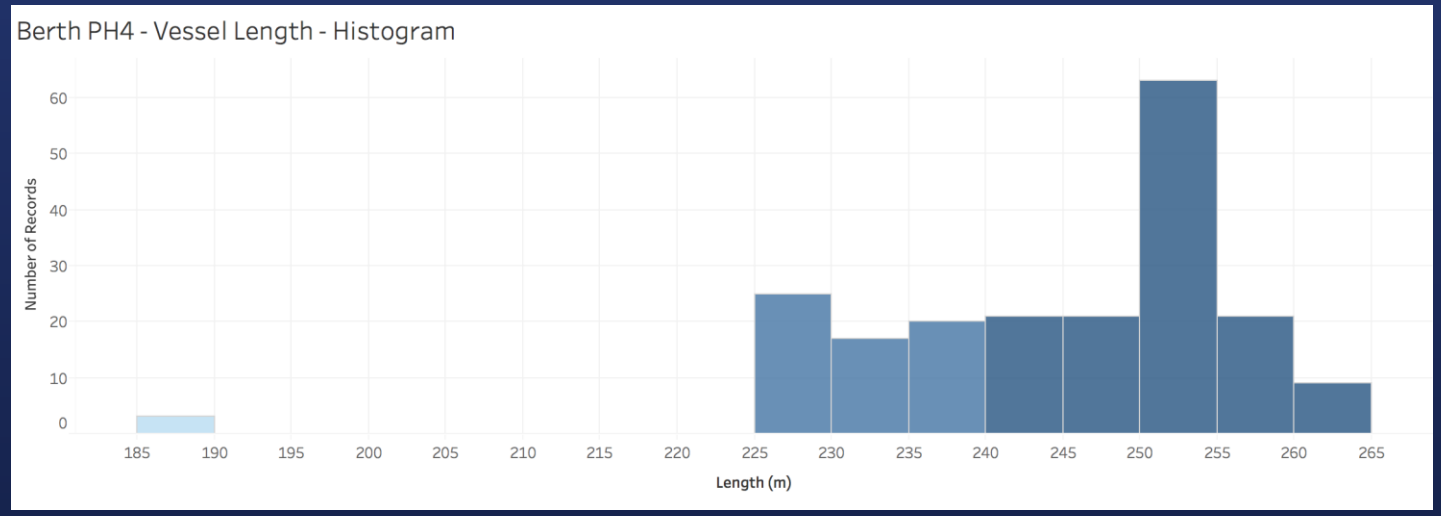
Ports operational statistics: restrictions at berth



Vessel draught

Vessel length



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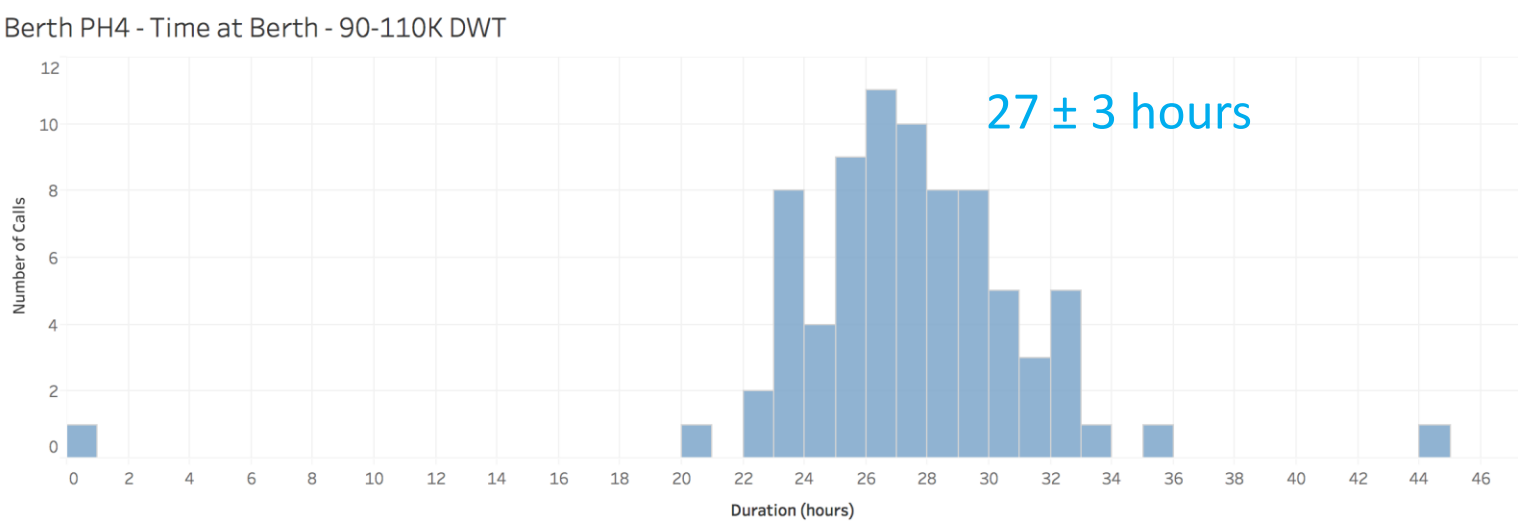
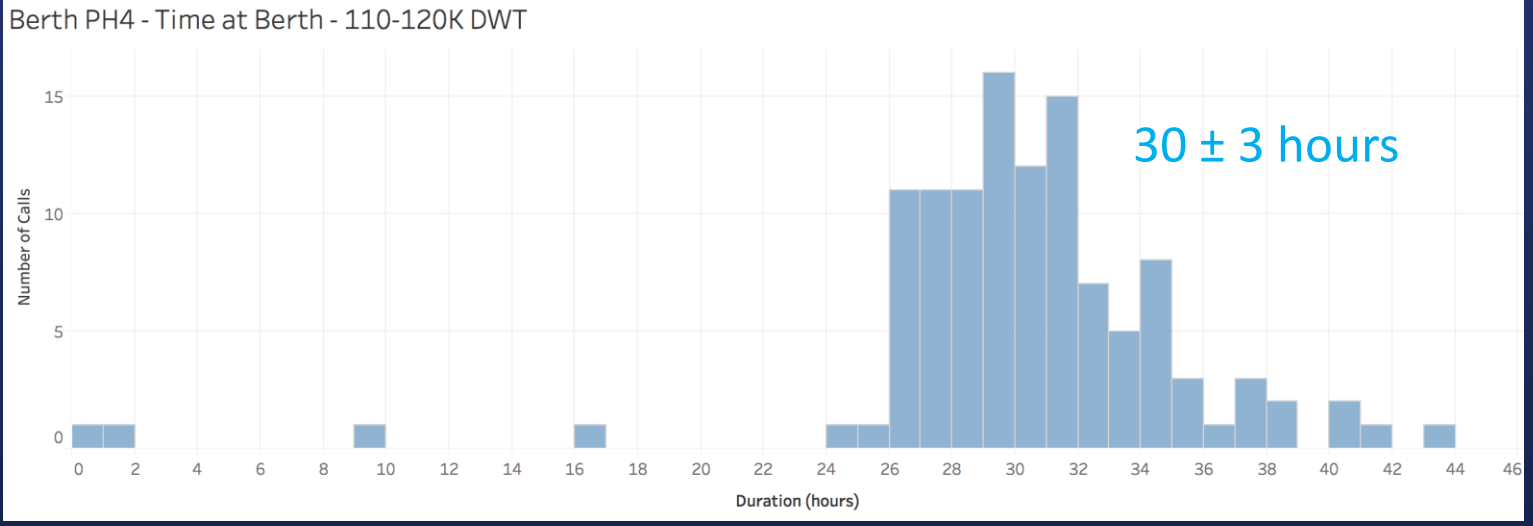
Port Operational statistics: Time at berth





- benchmarking
- ETD forecasts
- …

Big Data: investing in the value chain

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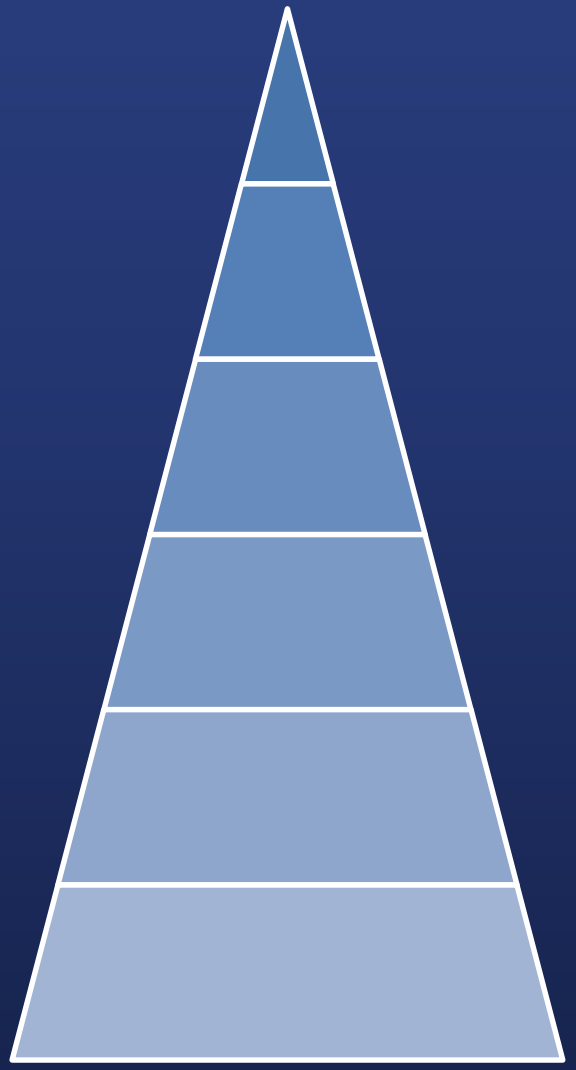
added value



Interaction: hubs & marketplaces
Enable stakeholder collaboration

Integration: platforms
Integration of reports with work tools

Actionable intelligence
configurable reports from multiple data sources

Intelligence
reports

Processed data
events

Raw data
vessel positions

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The maritime ecosystem (r)evolution

multiple marketplaces in Shipping

- port/ terminal operations
- freight - chartering
- suppliers
- services
- intermodal operations

Shipping as part of a global freight marketplace?

Disruption at multiple levels: digital

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Going forward

Thought Leadership

Initiatives and action

Thank you!

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