

Port Hedland Industries Council Community Industry Forum

17 February, 2021

www.qube.com.au

QUBE



WHO ARE QUBE ?

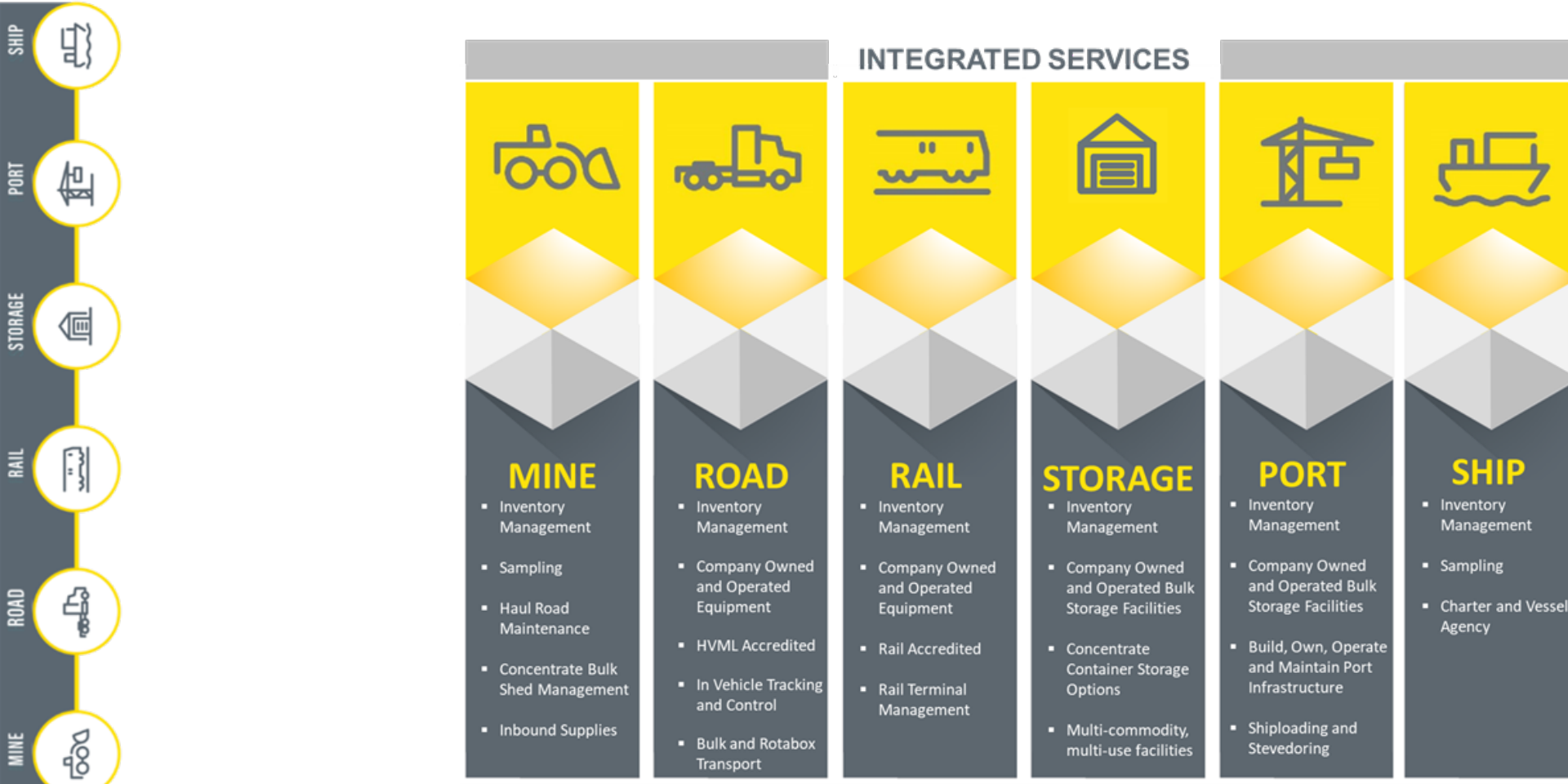


Company Size	• ASX 100 Company (ASX:QUB)
Market Capitalisation	• Approximately AUD \$5.3bn
Annual Revenue	• Approximately AUD \$1.9bn
Management	• Highly experienced Board and Executive team
Employees	• Over 6,500

Logistics Division	Bulk Division	Port Division	Strategic Assets Division	Patrick
<ul style="list-style-type: none"> Provides a broad range of services for the import and export of containerise cargo Offer integrated solution suite services covering multiple aspects of the supply chain Operates nationally in all capital city ports and has expanding footprint in inland metropolitan and regional areas connecting to ports 	<ul style="list-style-type: none"> Provides broad range of logistics services for the import and export of bulk commodities, storage facilities and onsite handling Focus on bulk products including iron ore, manganese, concentrates, fuel, acid Complete supply chain packages from mine to port and resupply from port to mine 	<ul style="list-style-type: none"> Provides broad range of logistics services for the import and export of General and Project cargo Focus on automotive, breakbulk, forestry, government services and oil and gas projects National Australian Operation and NZ Operations under wholly owned subsidiary ISO Limited 	<ul style="list-style-type: none"> Holds interests in strategically located properties suitable for development into logistics infrastructure and operations Developing Moorebank, expected to become the largest intermodal logistics precinct in Australia Holds investments in Quattro and TQ Holdings for development and operation of grain and fuel storage 	<ul style="list-style-type: none"> Owns a 50% interest in Patrick, one of two major established national operators providing container stevedoring services in Australia Holds lease concessions for and operates shipping container terminals in the four largest container ports in Australia Complement's Qube's other logistics activities



WHAT DO WE DO?



SOLUTIONS



ADAPTABLE



RELIABLE



CAPABLE



CULTURE

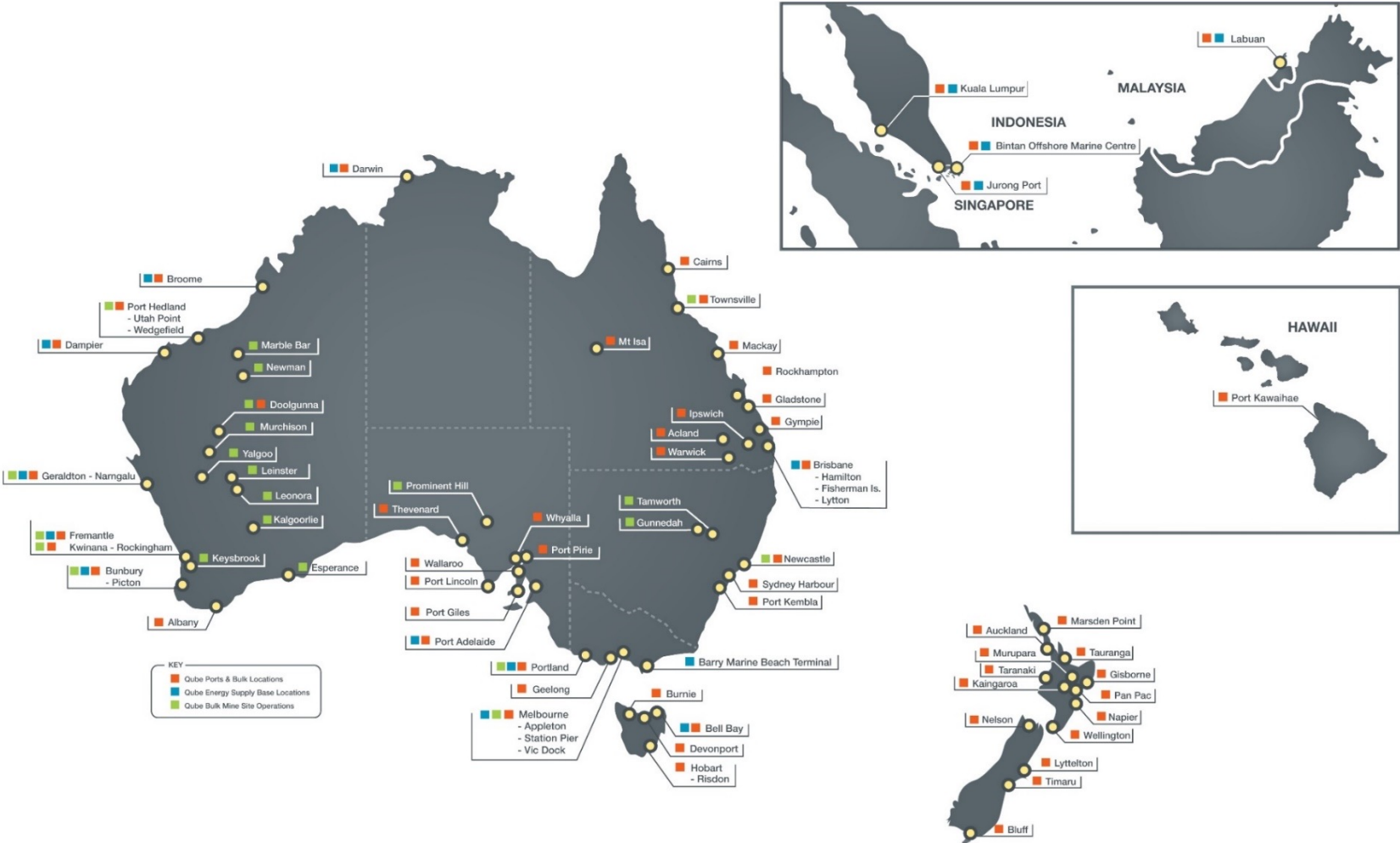


SUSTAINABLE

QUBE FOOTPRINT

QUBE operate across 48 ports throughout Australia, NZ and Asia and a range of mine sites and international locations.

- SHIP 
- PORT 
- STORAGE 
- RAIL 
- ROAD 
- MINE 



-  SOLUTIONS
-  ADAPTABLE
-  RELIABLE
-  CAPABLE
-  CULTURE
-  SUSTAINABLE



PILBARA OPERATIONS

SHIP



PORT



STORAGE



RAIL



ROAD



MINE



- QUBE have +400 staff in Port Hedland - with approximately 60% local and 40 % FIFO
- QUBE own and operate a 100 man camp in Port Hedland used to support our FIFO employees
- QUBE operate the Utah Point Bulk Handling Facility **receiving +500 quad road train deliveries EVERY DAY** to export up to 24Mtpa
- QUBE operate the East Side wharf facilities using QUBE owned Mobile Harbour Crane for bulk export & break bulk cargoes
- QUBE handle and transport approximately 6,000,000 tonnes of bulk cargoes per annum in the Pilbara
- QUBE operate +70 road trains and a range of front end loaders and ancillary equipment
- QUBE own and operate a 100,000 tonne capacity bulk storage facility in Wedgefield
- QUBE focuses on facilitating trade through the Pilbara by providing complete Mine to Port and Port to Mine supply chains



SOLUTIONS



ADAPTABLE



RELIABLE



CAPABLE



CULTURE

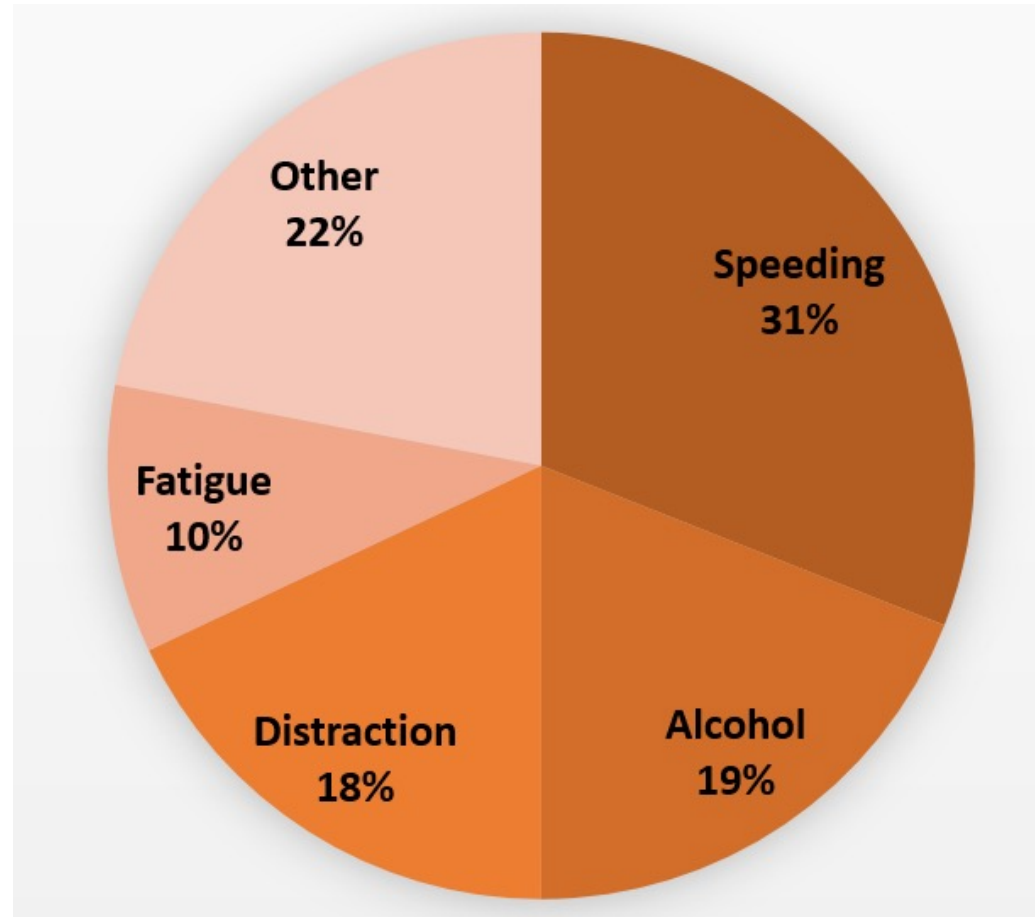


SUSTAINABLE

QUBE

Fact

Causes of fatal motor vehicle accidents in Australia in 2020



FLEET MONITORING CENTRE



- Nerve centre of Qube Bulk
- 24/7 centre that operates all year round
- Focused on safety, efficiency and innovation
- State-of-the-art In Vehicle Management Systems (IVMS)
- Monitor 750 heavy vehicles and equipment daily



SOLUTIONS



ADAPTABLE



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SUSTAINABLE

OUR SYSTEMS

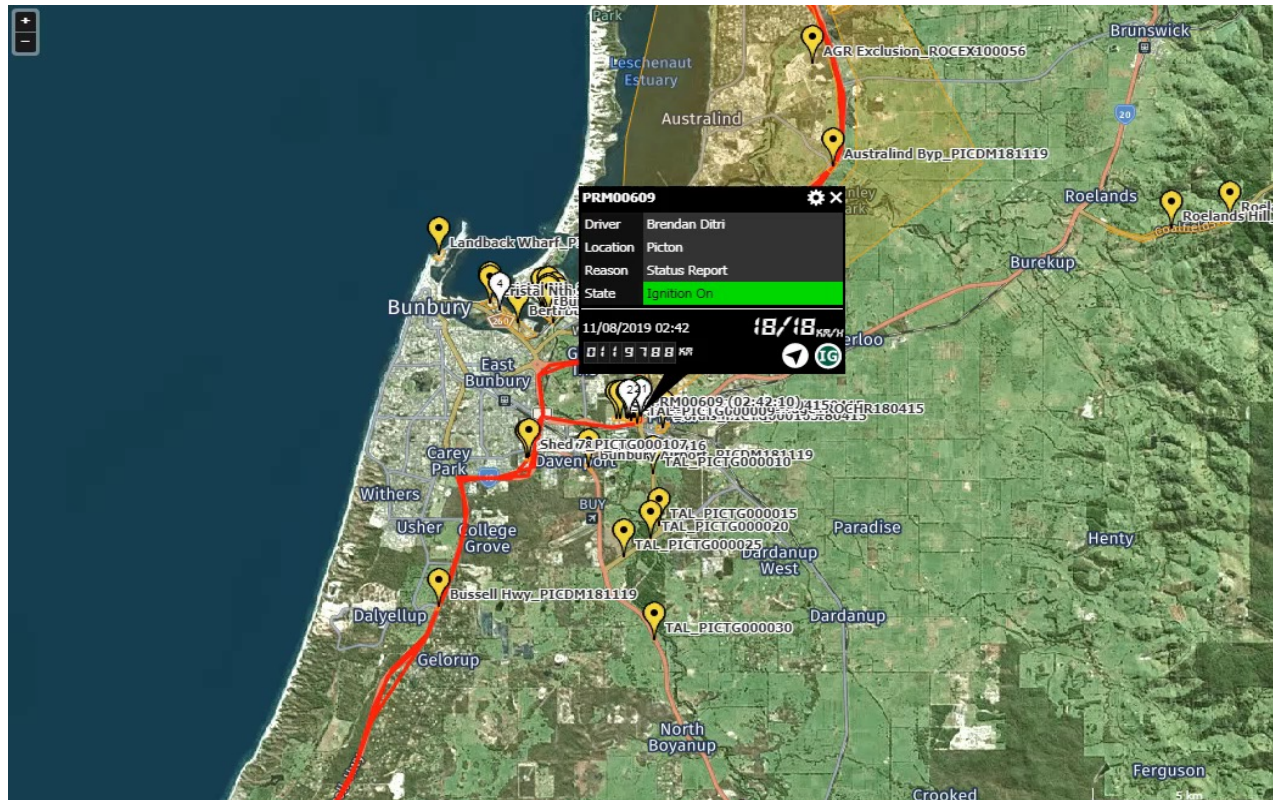
- SHIP
- PORT
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MTData

- Driver compliance – Fit for Duty, Pre-Trip & Post-Trip
- Comprehensive tracking and alerting (3G & Satellite)
- Full replay of vehicle's route and events
- Harsh Driving Monitoring; G-Force Sensor



PRM00609 - 11/08/2019 00:00 to 23:59

Date	Time	Driver	Speed	Satellites	State	Reason	Location
11/08/2019	01:54:30		0	7	At Waypoint	Dep. Way Point	Shed 4_PICTG000104
11/08/2019	01:55:30		0	7	At Waypoint	Arr. Way Point	Shed 4_PICTG000104
11/08/2019	02:00:59		0	7	At Waypoint	Dep. Way Point	Shed 4_PICTG000104
11/08/2019	02:01:37		0	7	At Waypoint	Arr. Way Point	Shed 4_PICTG000104
11/08/2019	02:36:29		0	8	At Waypoint	Status Report	Shed 4_PICTG000104
11/08/2019	02:36:29		0	8	At Waypoint	Ignition On	Shed 4_PICTG000104
11/08/2019	02:37:28	Brendan Ditri	0	0	Ignition On	Logon	Picton
11/08/2019	02:37:29	Brendan Ditri	0	8	At Waypoint	Status Report	Shed 4_PICTG000104
11/08/2019	02:38:26				Ignition On	MDVR Status	Picton
11/08/2019	02:38:29	Brendan Ditri	0	7	At Waypoint	Status Report	Shed 4_PICTG000104
11/08/2019	02:39:29	Brendan Ditri	0	7	At Waypoint	Status Report	Shed 4_PICTG000104
11/08/2019	02:40:29	Brendan Ditri	0	7	At Waypoint	Status Report	Shed 4_PICTG000104
11/08/2019	02:41:15	Brendan Ditri	3	8	At Waypoint	Dep. Way Point	Shed 4_PICTG000104
11/08/2019	02:41:21	Brendan Ditri	8	8	At Waypoint	Status Report	Picton Depot_PICHR180415
11/08/2019	02:41:25	Brendan Ditri	10	10	At Waypoint	Status Report	Picton Depot_PICHR180415
11/08/2019	02:41:39	Brendan Ditri	18	9	At Waypoint	Status Report	Picton Depot_PICHR180415
11/08/2019	02:41:41	Brendan Ditri	18	10	At Waypoint	Status Report	Picton Depot_PICHR180415
11/08/2019	02:42:09	Brendan Ditri	17	10	At Waypoint	Dep. Way Point	Picton Depot_PICHR180415
11/08/2019	02:42:10	Brendan Ditri	18	10	Ignition On	Status Report	Picton
11/08/2019	02:42:11	Brendan Ditri	21	10	Ignition On	Status Report	Picton
11/08/2019	02:43:11	Brendan Ditri	73	10	Ignition On	Status Report	Picton
11/08/2019	02:44:11	Brendan Ditri	59	10	Ignition On	Status Report	Picton
11/08/2019	02:44:38	Brendan Ditri	26	10	Ignition On	Status Report	Picton
11/08/2019	02:44:40	Brendan Ditri	25	10	Ignition On	Status Report	Picton
11/08/2019	02:45:29	Brendan Ditri	7	10	Ignition On	Status Report	Picton
11/08/2019	02:46:29	Brendan Ditri	75	10	Ignition On	Status Report	Picton
11/08/2019	02:47:29	Brendan Ditri	81	10	Ignition On	Status Report	Picton
11/08/2019	02:48:29	Brendan Ditri	71	10	Ignition On	Status Report	Picton
11/08/2019	02:49:29	Brendan Ditri	91	10	Ignition On	Status Report	Picton
11/08/2019	02:49:41	Brendan Ditri	99	10	Ignition On	Status Report	Picton
11/08/2019	02:50:41	Brendan Ditri	99	10	Ignition On	Status Report	Roelands
11/08/2019	02:51:41	Brendan Ditri	99	10	Ignition On	Status Report	Roelands

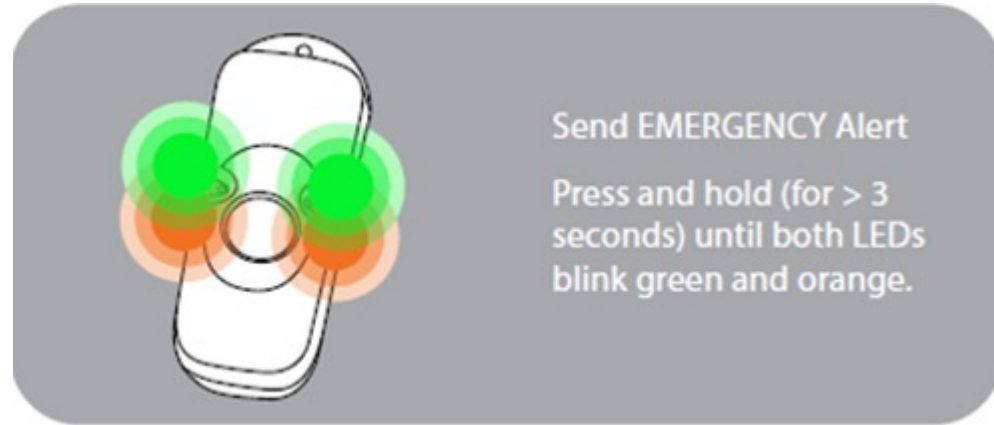


MTData Functionality

SHIP
PORT
STORAGE
RAIL
ROAD
MINE



- Real-Time Driver Fatigue Management
- Driver Duress Pendant
- Raptor (Supervision / Tracking)
- Phone and Messaging Modules
- Electronic Document Management
- Integrated DVR Camera Solution
- Detailed Engine Management
- Trailer Tracking
- Training Modules
- Raising Incidents
- Completion of Job Tasks



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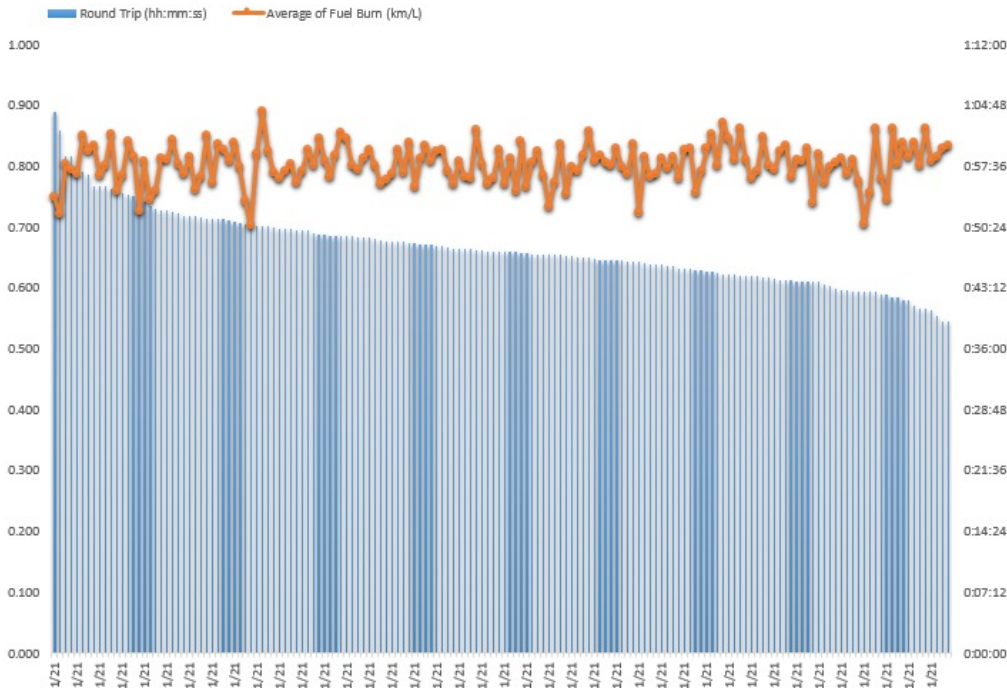
SUSTAINABLE

Reporting

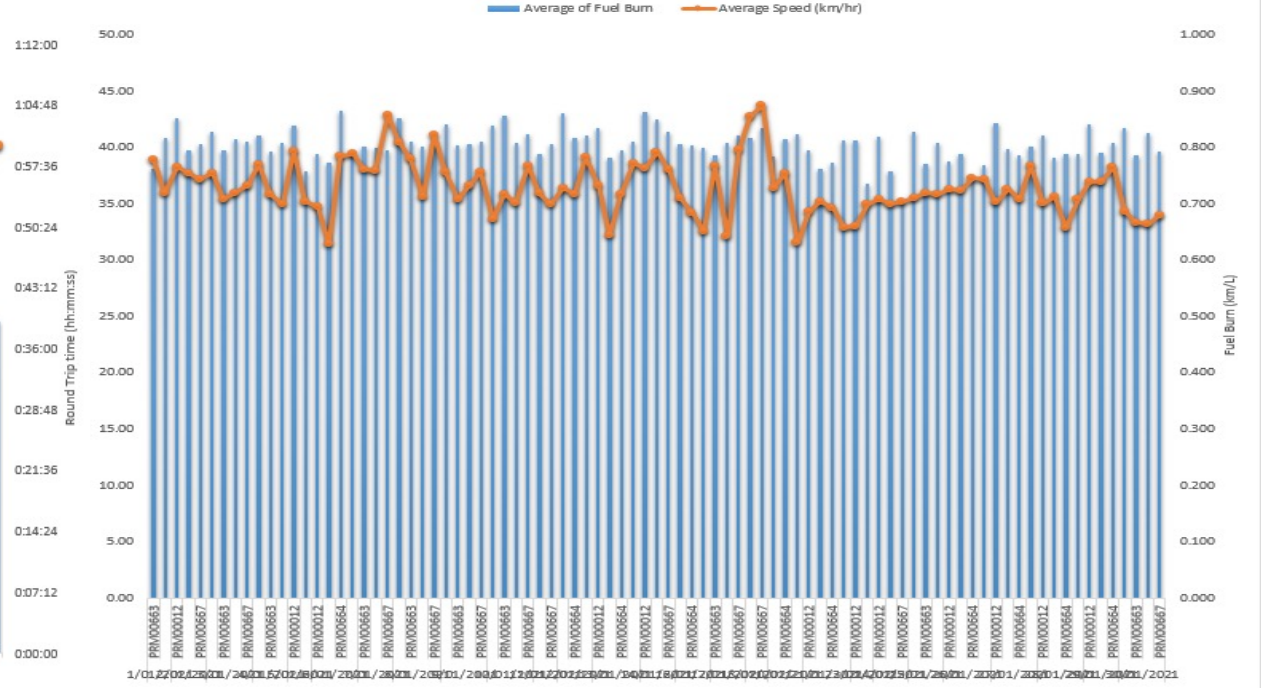
- Cycle Time Analysis
- Efficiency Report
- Productivity Report
- Safety Report
- Compliance Report



Driver Leadership Board



Fuel Burn vs Average Speed



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DSS Monitoring

- SHIP
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Driver State Sensor (DSS) Monitoring



Distraction – Mobile Phone Use



Distraction – Not Looking Ahead



Fatigue – False Positive



Fatigue – Micro sleep



Fatigue – Micro sleep



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Fatigue Events

- SHIP
- PORT
- STORAGE
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Fatigue

GUARDIAN

Drowsiness

PRM00396

P04025-S00004295 (4.5.0.401200)

Qube Bulk - Pilbara Transport

(UTC+08:00) Perth

Time:	Location:
Mon 02 Dec 2019 07:15:44	20.3906 S, 118.8450 E
Shift / Crew:	Bearing:
Not applicable	92°
Speed:	Trip time (h:m:s):
88 km/h	00:15:44
Duration:	Trip distance:
1.68s	17.00 km
Travel:	Detection frame:
41 metres	56095
Alarms:	Verified:
Audio, Vibration	Mon 02 Dec 2019 07:16:17 by Jayleen L

Very quick intervention from the Guardian Centre

2/12/2019 7:15:44 AM	Detect event	Fatigue (1.68 seconds) detected in PRM00396 at 2/12/2019 7:15:44 AM.
2/12/2019 7:16:07 AM	Register event	Registered fatigue (1.68 seconds), 23 secs after detection in PRM00396 at 2/12/2019 7:15:44 AM.
2/12/2019 7:16:07 AM	Process log	Processed disk log 'P04025-S00004295_2019-12-01-23_00_00_00056095_00_ce214a003c6f088937cee80f31e5da6c.eod' for fatigue (1.68 seconds) in PRM00396 (23 secs after event detected).
2/12/2019 7:16:17 AM	Confirm event	Fatigue (1.68 seconds) in PRM00396 confirmed by Jayleen L. <i>Classified as drowsiness.</i>
2/12/2019 7:17:13 AM	Call fleet contact	Jayleen L logged a call to Qube Bulk - Pilbara Transport about PRM00396. <i>Contacted FMC - Emergency Phone - All Qube Holding Limited fleets (primary) [61 861 411 926].spoke with dennis about the first fatigue,email sent</i>



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QUBE

Fact

**More than 90% of drivers caught in a fatigue event do not recall closing their eyes.
Since 2017, the FMC raised more than 2,000 fatigue incidents**



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Benefits derived

SHIP



- Speeding incidents reduced by 80% from 2017 to 2020

PORT



- 1,200 fatigue incidents raised from 2017 to 2020

STORAGE



- Reduction of distractions – mobile phones, smoking, etc...

RAIL



- Reduced motor vehicle insurance premiums

ROAD



- Reduced workers compensation insurance premiums

MINE



- Awareness outside of the work environment



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