

**AVERTISSEMENT :** Cette présentation a été traduite de l'anglais à titre d'information. En cas de divergences, la [version originale](#) prévaut.

# Objectif

Fournir des informations fiables et impartiales sur la meilleure façon d'organiser le transport de biens et de services par tous les modes de transport.

- Il s'agit d'une plateforme basée sur le web qui regroupe de manière unique la surveillance des véhicules, les performances portuaires, le suivi des navires et les informations sur les incidents dans les couloirs.
- Réunit les technologies les plus performantes pour réaliser des analyses de données massives.
- Permet de contrôler les flux logistiques aux points d'entrée et de sortie des pays en temps quasi réel avec une analyse historique.
- Promouvoir "une seule version de la vérité" par le partage d'informations via le web, l'email, le PDF, l'application mobile, WhatsApp et le SMS.
- Point de vue indépendant.

2013

2018

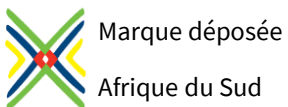
2022

2023 - 2024

Faits marquants

Système de surveillance des camions

- Contrôle des délais de franchissement des frontières



Système de suivi des transports

- Suivi des itinéraires régionaux ajoutés



Système de suivi logistique

- Suivi des navires dans les ports d'Afrique australe
- Suivi détaillé des itinéraires à l'intérieur des corridors



Système de suivi logistique V2

- Sources de données supplémentaires
- Données sur les risques géopolitiques
- Incidents dans les couloirs
- Informations sur le coût du véhicule
- Réseau ferroviaire
- Données des douanes et accises (RSA)
- Application mobile
- Canal de communication WhatsApp
- Personnalisable

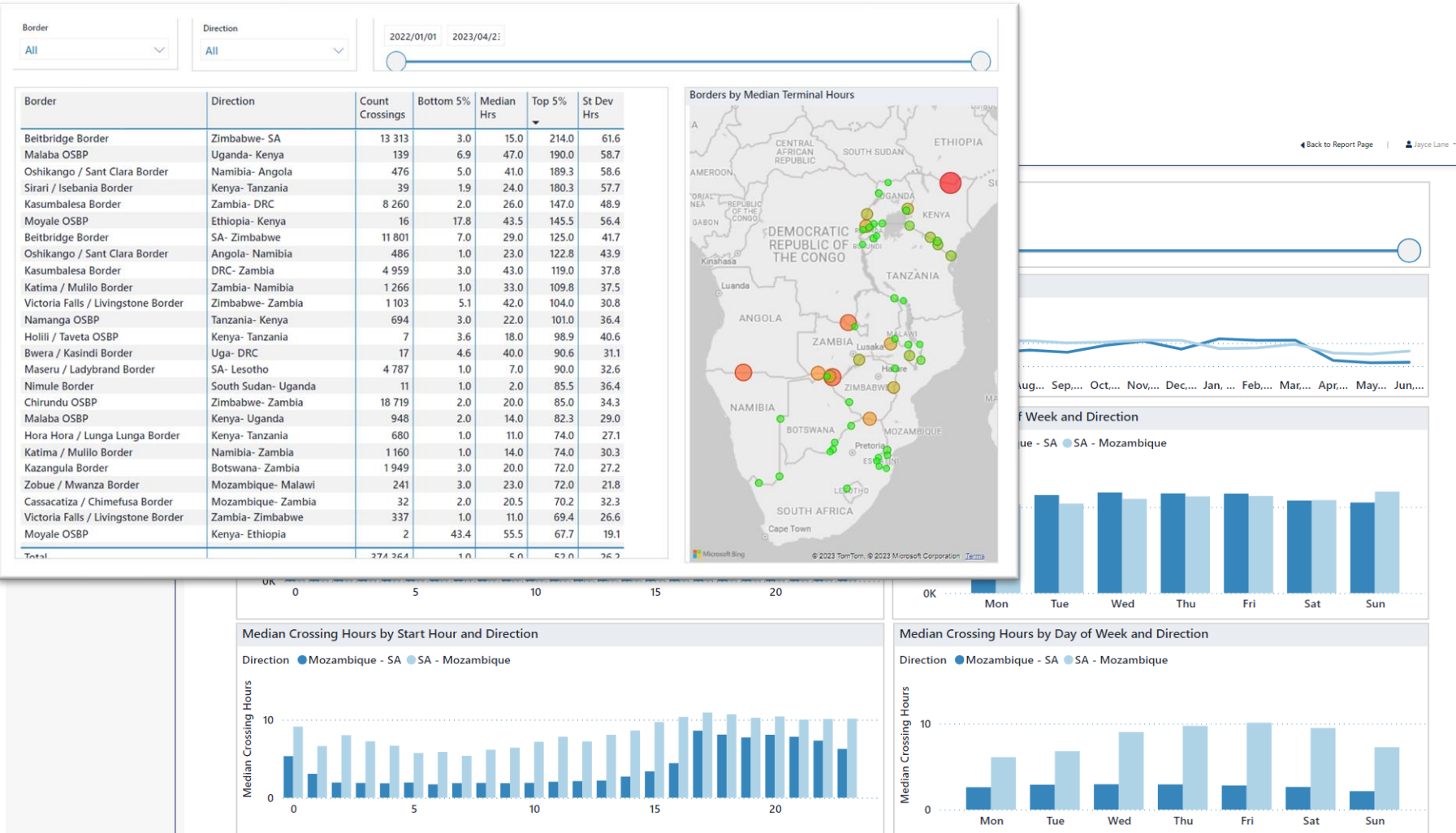


- 80 millions d'enregistrements de véhicules lourds par jour.
- 100 000 enregistrements de navires reçus par semaine.
- 24 millions de visites enregistrées dans la zone Géo par an.
- 1500 zones géographiques contrôlées quotidiennement.
- 10 ports régionaux contrôlés ont été signalés en direct.
- 10 corridors interrégionaux et 181 segments de corridors contrôlés quotidiennement.
- 51 Frontières surveillées quotidiennement.
- Comprend des données sur le trafic et la météo en temps réel.

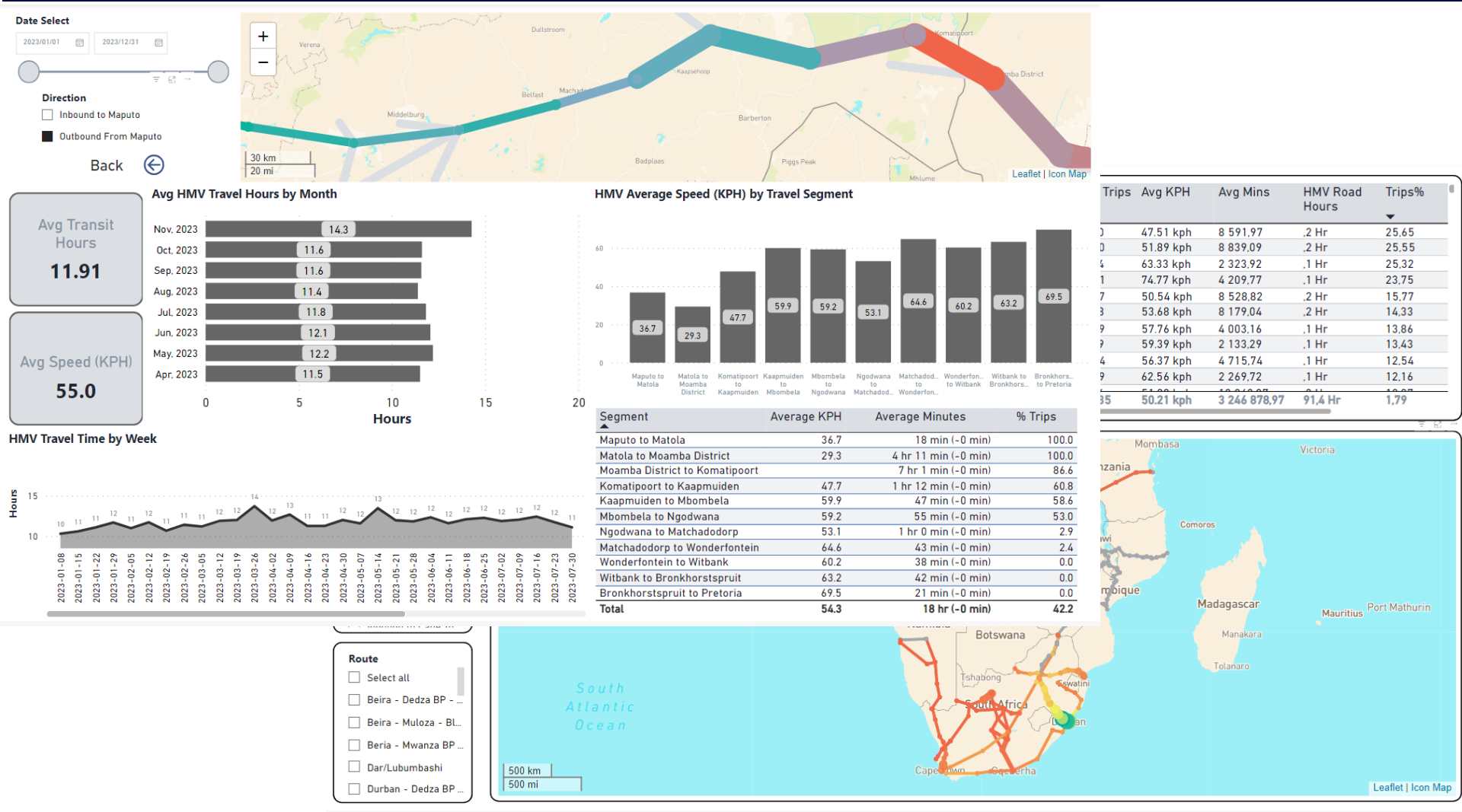


- Chaque pilier répond à une question
- Collectivement, ils sont puissants
- A terme, les LMS deviendront prédictives

- Suivi des temps de passage des frontières et analyse historique
- Identifier et confirmer les principaux couloirs d'utilisation
- Indication du temps de transit, du volume et du risque
- Utilisé pour la modélisation lorsque des dépenses importantes en infrastructures logistiques sont susceptibles d'être effectuées.
- Utilisé également pour l'optimisation des itinéraires régionaux
- Suivi et contrôle des performances
- Suivi des performances logistiques régionales
  - Ports
  - Corridors



- Performances régionales en matière de franchissement des frontières
- Données historiques
- Identifier les tendances
- Identifier les goulets d'étranglement
- Mesurer la longueur de la file d'attente aux frontières



- Identifier l'utilisation du corridor
- Déterminer la vitesse et le volume
- Temps de transit total
- Performance du corridor au niveau régional

## Heavy Motor Vehicle (HMV) Congestion in South Africa Supply Chains

Congestion in the supply chain network can have significant implications, including increased costs, delays in delivery times, reduced customer satisfaction, and disruptions to the overall flow of goods and services.

Congestion can be indicative of several issues, including:

- Inefficiencies
- Capacity constraints
- Poor Planning
- Infrastructure limitations
- Force majeure

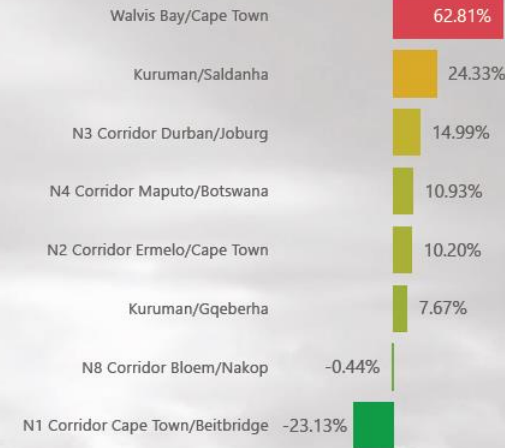
When measuring congestion in the context of corridor movements, border posts times, queueing, some key measurements include:

- Queue Length (*Measured distance from border using GPS data*)
- Queue Duration (*Expected processing time for Border queue*)
- Border Crossing Time (*Border crossing time*)
- Corridor Transit Time (*Total corridor time on corridor for HMV's*)

### Major Transport Corridor Transit Times



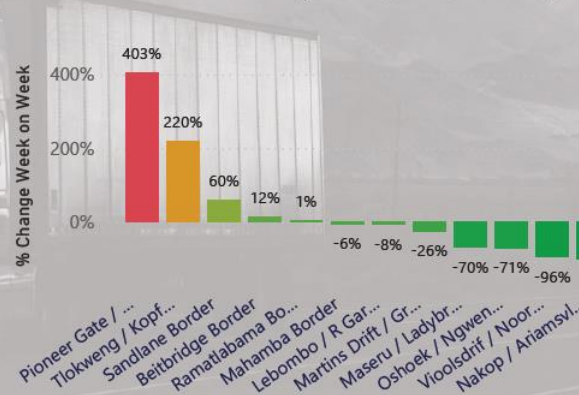
### Week on Week Percentage Change in Corridor Time



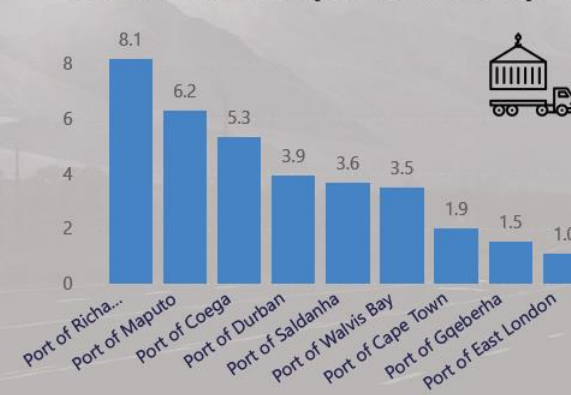
### Border Queues Last 7 Days



### Week on Week Percentage Change in Queue Length



### HMV Turnaround Time by Port (Hrs) Last 7 Days



- État de santé élevé
- Indicateurs clés de performance
- Analyse historique
- Une version de la vérité
- En cours de déploiement en Afrique du Sud



Enhancing trade and logistics efficiency throughout the supply chain

8

Corridors Monitored

13923

Corridor Incidents Recorded YTD

1033981

Sampled Individual Trips YTD

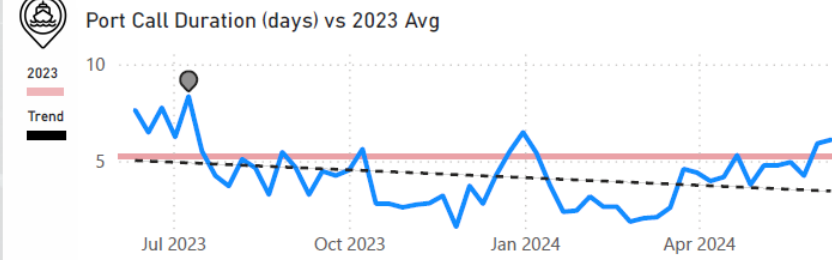
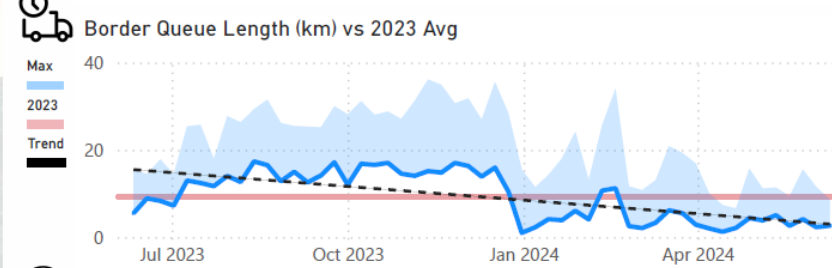
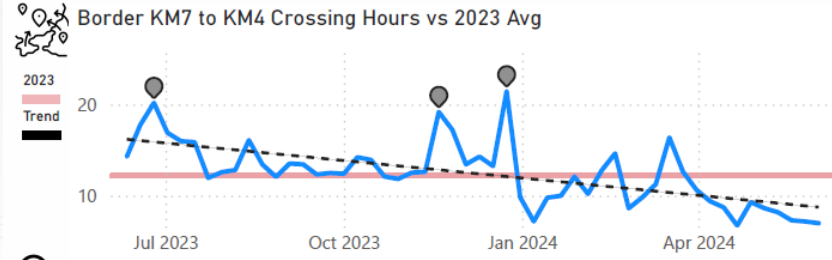
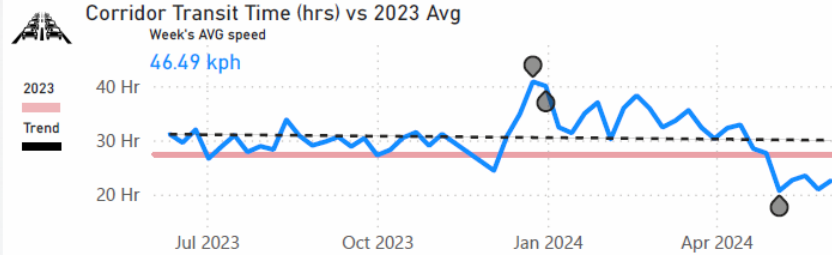
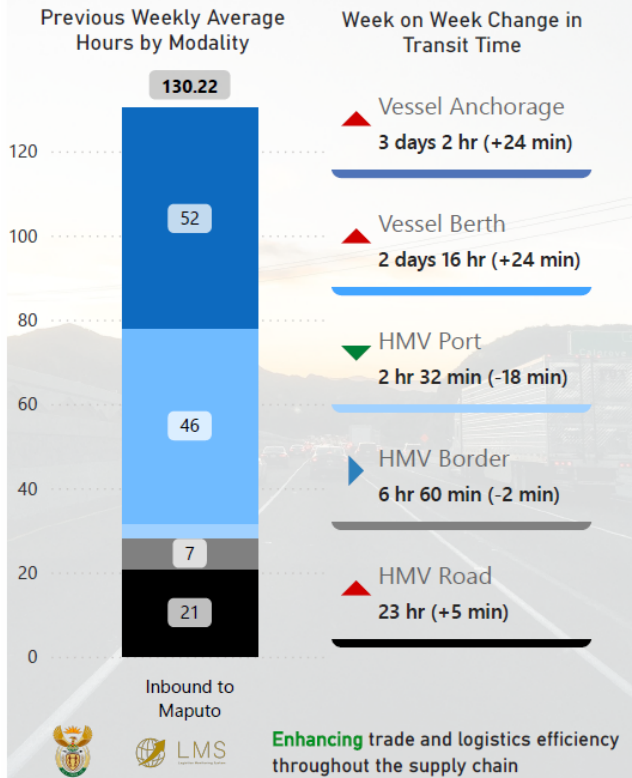


## N4 Benchmark Performance - Pretoria to Maputo

Understanding the dynamics of transport corridors is crucial for optimizing supply chain operations and fostering seamless trade flows, driving economic growth and prosperity regionally and globally.

This is explored by unpacking key elements such as:

- Corridor Travel Time by Heavy Motor Vehicle (HMV)
- Modality Performance: eg. Port Call = Time Vessel Spend at Port
- Key Infrastructure or logistics hubs: eg. HMV time through Border Post

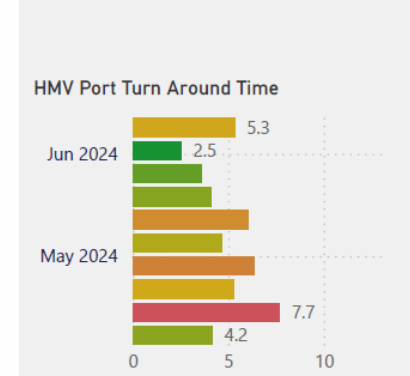


The tables below reflect the penalty cost incurred in terms of HMV fixed costs using the RFA Vehicle Cost Index when comparing the average to the median achieved.

Date	HMV Round Trip Penalty Cost
Jun, 2024	R9,057.64 ↓
May, 2024	R9,133.07 ↓
Apr, 2024	R9,355.40 ↑
Mar, 2024	R9,305.23 ↑

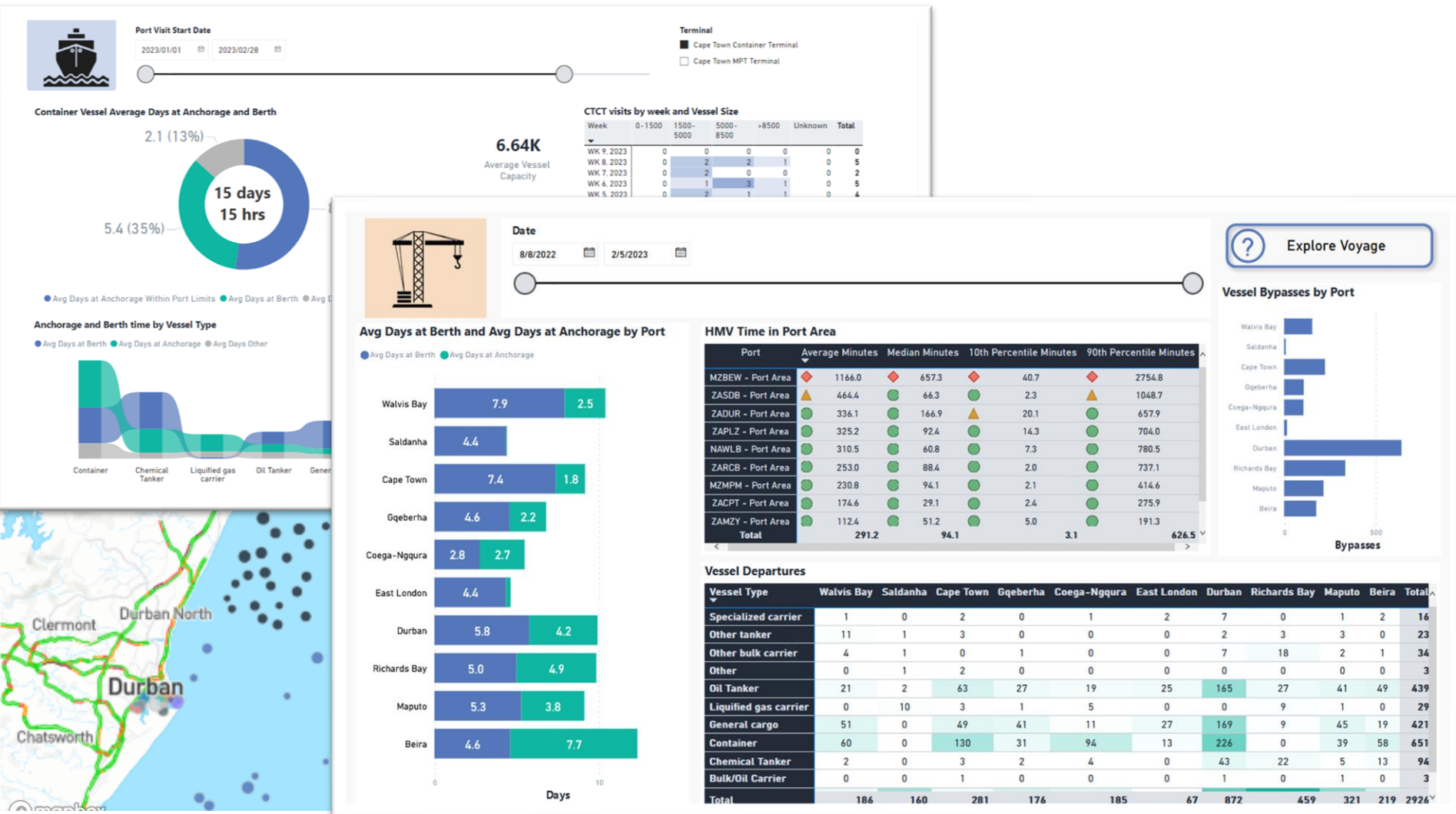
Date	HMV Border Penalty Cost
Jun, 2024	R1,102.50 ↓
May, 2024	R1,107.31 ↓
Apr, 2024	R1,132.17 ↑

Date	HMV Port Penalty Cost
Jun, 2024	R673.06 ↓
May, 2024	R787.55 ↓
Apr, 2024	R1,025.64 ↑



- État de santé spécifique au corridor
- Coût d'opportunité identifié dû à la performance
- Relier les frontières, les corridors et les ports

- Tous les navires se trouvent en Afrique australe et peuvent être étendus facilement.
- Comparaison entre les ports
- Données sur les navires vivants





◀ Back to Report Page | 👤 Jayce Lane

## Port du Cap


- Contrôle des performances
- Analyse des tendances
- Détection des anomalies
- Capacité de planification conjointe

**Western Cape Port Planning Dashboard**


- Project Background
- 2 Week Performance View
- KPI
- CPT Vessel & Traffic Map View
- Waterside - Vessel Insights
- Waterside - Vessel Diagnostics
- Landside - Stack Insights
- Terminal Evacuation
- Landside - Container History
- Port Productivity
- FPT Insights
- Heavy Motor Vehicle Insights
- Traffic Incidents
- Weather Insights
- Planning App
- Port Detail
- Definitions



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## Western Cape




Western Cape  
Government

### 2 Week view of Port Performance - Containers

Weekly Forecast

#### Port Productivity



**Container Moves p/hr Excl Weather Delays**

**67,7**

**Container Moves p/hr p/Crane Excl Weather Delays**


**13,0**

**EST Weather Delays (hrs)**

**9**

Weekly Forecast

#### Waterside Insights



**Vessel Berthed**

**4**

**New Vessel Arrivals**

**3**

**Avg Days at Anchorage**


**1 day 17 hrs**

**Avg Days at Berth**

**24 hrs**

Weekly Forecast

#### Landside - Stack Insights



**General stack**

**26%**

**Empty stack**

**39%**

**Reefer stack**


**43%**

**TEU Moves Avg**

**1 503**

Weekly Forecast

#### Terminal Evacuation



**Truck Moves Avg**

**806**

**Truck Moves per Hour**

**34**

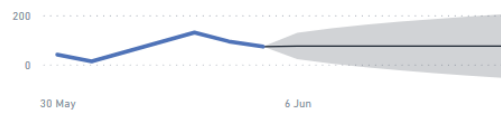
**Rail Moves Avg**

**23**


**Rail Moves per Hour**

**1,0**

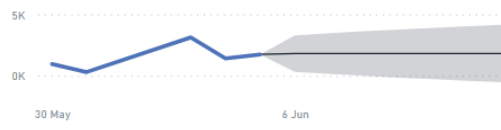
#### Container Moves p/hr Excl Weather Delays



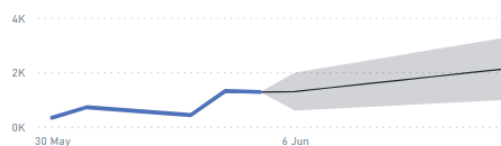
#### Vessel Arrivals



#### TEU Moves Avg




#### Truck Moves Avg



## Port du Cap

- Performance s actuelles
- Performance s prévues
- Domaines de performance segmentés

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## Waterside - Vessel Insights

Understanding vessel metrics is essential for assessing terminal performance. By optimizing time at anchorage and time at berth, terminal operators can enhance productivity, reduce dwell times, and improve overall efficiency.

Key elements explored are:

- Anchorage Time:** Evaluating the wait time before berthing to identify potential congestion and delays.
- Vessels at Anchorage:** Visualize congestion levels and demand trends.
- Berth Time:** Time at berth are indicative of efficiency in loading/unloading operations.

### Filters

**Port Visit Start Date**

2023/01/01  2024/12/31

**Terminal**

All

**Vessel Name**

All

Vessels at Outer Anchorage

## 2

Vessels at Inner Anchorage

## 0

1 Vessels Berthed at CTCT:

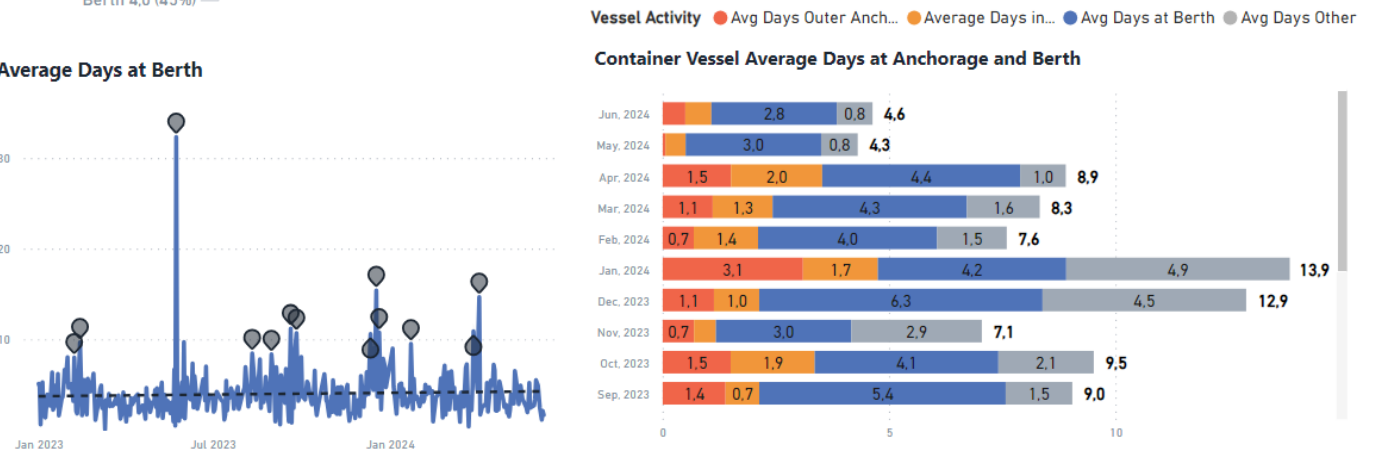
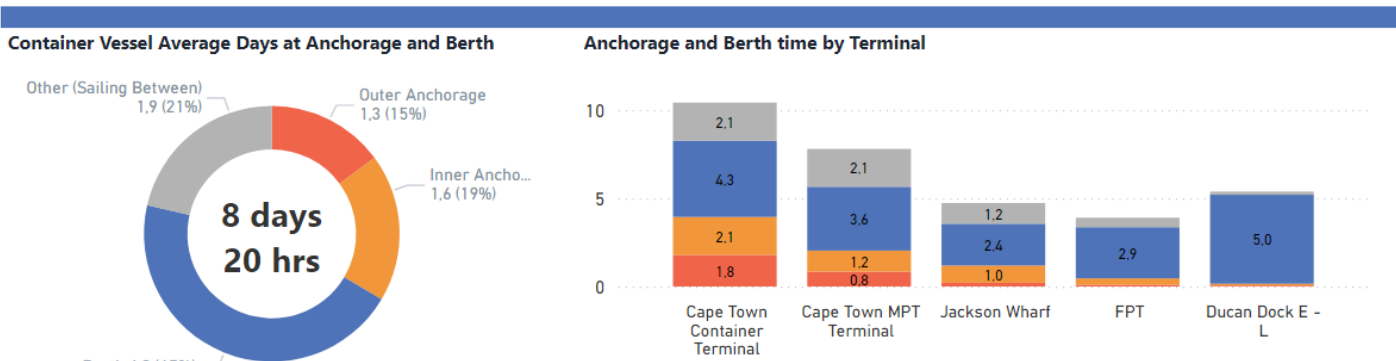
SEASPAN TOKYO

Current Avg Hours prior to Berth

## 1 day 9 hrs

Current Avg Hours at Berth

## 1 day 18 hrs



## Port du Cap

- Informations sur les mouvements de navires

## Port du Cap

- Aperçu des mouvements de véhicules dans le port

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### Heavy Motor Vehicle Insights

Heavy motor vehicle (HMV) movements in and out of the port are crucial for connecting the port environment to the broader supply chain ecosystem.

HMVs play a vital role in transporting containers and goods to and from the port, impacting vessel turnaround times, terminal congestion, and cargo flow. Efficient HMV operations ensure timely delivery of goods, minimizing delays and optimizing the overall logistics network's efficiency.

Recognizing the importance of HMV movements enables stakeholders to enhance infrastructure, streamline processes, and improve coordination.

#### Filters

2023/12/20  2024/06/12

Truck Moves Avg

**772**

Truck Moves per Hour

**32**

Port Precinct Avg Terminal Time (mins)

**130,47**

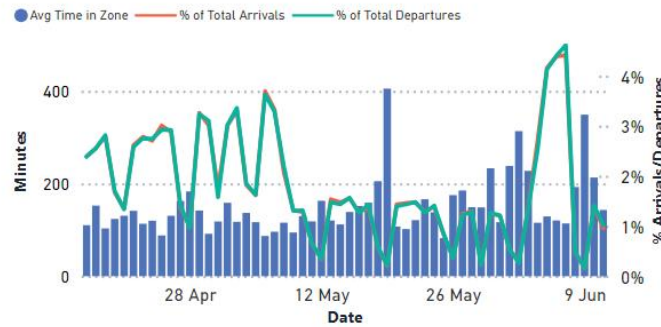
Container Terminal Avg Terminal Time (mins)

**104,19**

FPT Terminal Avg Terminal Time (mins)

**70,94**

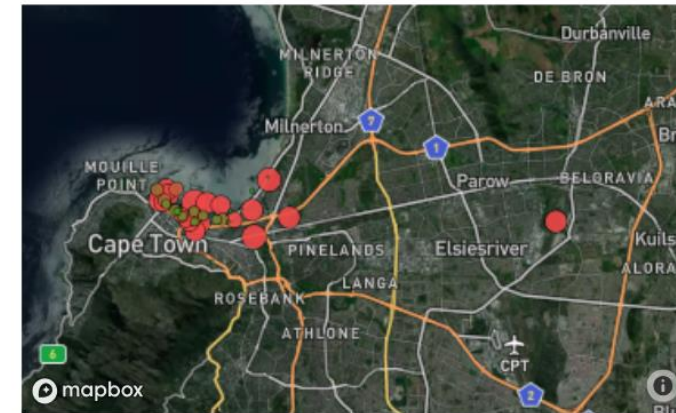
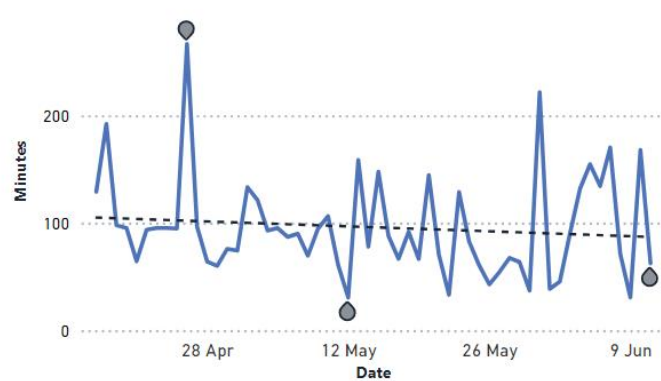
#### Average Minutes in Port Precinct by Departure Day



#### Average Minutes in Port Precinct by Departure Hour



#### Average Minutes in Container Terminal by Day





- Fournir des informations clés aux publics cibles
- Peut être mis en place pour parler des questions brûlantes
- Assurer l'alignement dans l'ensemble de l'organisation



The screenshot shows the LMS website homepage. At the top, there is a dark blue navigation bar with the LMS logo and a search icon on the left, and a shopping cart icon on the right. The navigation menu includes: LMS (with a dropdown arrow), Border Activity, Corridors & Routes, Economic Zones, Intermodal Monitoring, Products, and Contact. Below the navigation bar is a large hero image of a road winding through a hilly, arid landscape. Overlaid on this image is the text: "Gain valuable knowledge on Africa's Borders and Routes" and a button labeled "View Our Solutions". Below the hero image is a carousel indicator showing "1/3" and a pause icon. At the bottom of the page, there is a section with a dark blue background on the right and a photo of a road on the left. The text "Key Facts about LMS:" is followed by two bullet points: "100,000 vehicles tracked every day." and "100,000 vessels records received per week."

## [Suivi logistique \(logistics-monitoring.com\)](https://logistics-monitoring.com)





LMS  
Logistics Monitoring System

Merci de votre  
attention !