

*We're working for  
Western Australia.*



# Main Roads Open Data Portal

Open Data Journey

- Milestones
- Opportunities

# Milestones on Our Journey

- 1 Launch of the Western Australian Open Data Policy; July 2015
- 2 Adoption of an Open Data Policy; May 2017
- 3 Main Roads Open Data, Maps and Apps Portal Launched; Dec 2017
- 4 Corporate Governance on Operations of the Portal Formalised; May 2018
- 5 First Real-Time Data Feed Published; Nov 2018



# Opportunities on Offer



- Real-Time Traffic Data at Signalised Intersections

<https://mainroads.maps.arcgis.com/home/item.html?id=7888003fb5934bc6b3d81b169f618d7d>

- Historic Traffic Data 2015 to 2019

<https://portal-mainroads.opendata.arcgis.com/datasets/historic-traffic-data-2015-to-2019>



# Signalised Intersection Diagram



Real-Time Traffic Data at Signal: x LM00001.jpg (1820x1160) x Simple Web Socket Client x +

← → ↺ 🏠 📄 https://mainroadsopendata.mainroads.wa.gov.au/Content/websocket\_demo.html ☆ + 📧 📧 📧 📧 📧 📧

Server Details

URL: wss://mainroadsopendata.mainroads.wa.gov.au/Content/websocket\_demo.html Open Save

Status: CLOSED

Message Log Clear

```
[{"MessageType": "33 (SH data)", "REG": "BUL", "TS": "2020-11-19T12:43:00", "M": false, "LP": 2, "CT": 40, "SM": [{"LM": 1220, "SA/LK": 450, "RT": "Strategic Approach Record", "SG": "A6", "PT": 150, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 7}], {"LM": 1220, "SA/LK": 451, "RT": "Strategic Approach Record", "SG": "A6", "PT": 150, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 7}], {"LM": 1198, "SA/LK": 371, "RT": "Strategic Approach Record", "SG": "1", "PT": 50, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 7}, {"L": 3, "MF": 7}], {"LM": 1198, "SA/LK": 372, "RT": "Strategic Approach Record", "SG": "1", "PT": 50, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 7}, {"L": 3, "MF": 7}], {"LM": 1139, "SA/LK": 409, "RT": "Strategic Approach Record", "SG": "1", "PT": 22, "Lanes": [{"L": 1, "MF": 5}, {"L": 2, "MF": 3}], {"LM": 1139, "SA/LK": 410, "RT": "Strategic Approach Record", "SG": "1", "PT": 22, "Lanes": [{"L": 1, "MF": 5}, {"L": 2, "MF": 3}], {"LM": 362, "SA/LK": 99, "RT": "Strategic Approach Record", "SG": "1", "PT": 30, "Lanes": [{"L": 1, "MF": 6}, {"L": 2, "MF": 7}], {"LM": 362, "SA/LK": 100, "RT": "Strategic Approach Record", "SG": "1", "PT": 30, "Lanes": [{"L": 1, "MF": 6}, {"L": 2, "MF": 7}], {"LM": 744, "SA/LK": 221, "RT": "Strategic Approach Record", "SG": "1", "PT": 41, "Lanes": [{"L": 1, "MF": 12}, {"L": 2, "MF": 7}], {"LM": 744, "SA/LK": 222, "RT": "Strategic Approach Record", "SG": "1", "PT": 41, "Lanes": [{"L": 1, "MF": 12}, {"L": 2, "MF": 7}], {"LM": 845, "SA/LK": 241, "RT": "Strategic Approach Record", "SG": "1", "PT": 29, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 3}, {"L": 3, "MF": 0}], {"LM": 845, "SA/LK": 242, "RT": "Strategic Approach Record", "SG": "1", "PT": 29, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 3}, {"L": 3, "MF": 0}], {"LM": 570, "SA/LK": 213, "RT": "Strategic Approach Record", "SG": "1", "PT": 39, "Lanes": [{"L": 1, "MF": 6}, {"L": 2, "MF": 5}], {"LM": 570, "SA/LK": 214, "RT": "Strategic Approach Record", "SG": "1", "PT": 39, "Lanes": [{"L": 1, "MF": 6}, {"L": 2, "MF": 5}], {"LM": 692, "SA/LK": 60, "RT": "Strategic Approach Record", "SG": "1", "PT": 29, "Lanes": [{"L": 1, "MF": 4}, {"L": 2, "MF": 2}, {"L": 3, "MF": 0}], {"LM": 692, "SA/LK": 61, "RT": "Strategic Approach Record", "SG": "1", "PT": 29, "Lanes": [{"L": 1, "MF": 4}, {"L": 2, "MF": 2}, {"L": 3, "MF": 0}], {"LM": 1064, "SA/LK": 254, "RT": "Strategic Approach Record", "SG": "1", "PT": 122, "Lanes": [{"L": 1, "MF": 7}, {"L": 2, "MF": 2}], {"LM": 1064, "SA/LK": 255, "RT": "Strategic Approach Record", "SG": "1", "PT": 122, "Lanes": [{"L": 1, "MF": 7}, {"L": 2, "MF": 2}], {"LM": 815, "SA/LK": 281, "RT": "Strategic Approach Record", "SG": "1", "PT": 13, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 0}], {"LM": 815, "SA/LK": 282, "RT": "Strategic Approach Record", "SG": "1", "PT": 13, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 0}], {"LM": 395, "SA/LK": 402, "RT": "Strategic Approach Record", "SG": "1", "PT": 22, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 4}], {"LM": 395, "SA/LK": 403, "RT": "Strategic Approach Record", "SG": "1", "PT": 22, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 4}], {"LM": 601, "SA/LK": 277, "RT": "Strategic Approach Record", "SG": "1", "PT": 15, "Lanes": [{"L": 1, "MF": 3}, {"L": 2, "MF": 2}], {"LM": 601, "SA/LK": 278, "RT": "Strategic Approach Record", "SG": "1", "PT": 15, "Lanes": [{"L": 1, "MF": 3}, {"L": 2, "MF": 2}], {"LM": 1017, "SA/LK": 146, "RT": "Strategic Approach Record", "SG": "1", "PT": 79, "Lanes": [{"L": 1, "MF": 8}, {"L": 2, "MF": 5}], {"LM": 1017, "SA/LK": 147, "RT": "Strategic Approach Record", "SG": "1", "PT": 79, "Lanes": [{"L": 1, "MF": 8}, {"L": 2, "MF": 5}], {"LM": 254, "SA/LK": 404, "RT": "Strategic Approach Record", "SG": "1", "PT": 83, "Lanes": [{"L": 1, "MF": 4}, {"L": 2, "MF": 6}], {"LM": 254, "SA/LK": 405, "RT": "Strategic Approach Record", "SG": "1", "PT": 83, "Lanes": [{"L": 1, "MF": 4}, {"L": 2, "MF": 6}], {"LM": 380, "SA/LK": 257, "RT": "Strategic Approach Record", "SG": "2", "PT": 11, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 0}], {"LM": 380, "SA/LK": 258, "RT": "Strategic Approach Record", "SG": "2", "PT": 11, "Lanes": [{"L": 1, "MF": 2}, {"L": 2, "MF": 0}]}
```

Real-Time Traffic Data at Signalis x LM01139.jpg (1820x1160) x https://mrgis.mainroads.wa.gov.au x Traffic Signal Sites | Main Roads x My Map x +

https://mainroads.maps.arcgis.com/home/webmap/viewer.html?panel=gallery&suggestField=true&url=https%3A%2F%2Fmrgis.mainroads.wa.gov.au%2Farcgis%2Frest%2Fservices%2FOpenData%2FRoad... ☆ + 📁 ☆ 🗺️ 🧑


Home ▾ My Map New Map ▾ Main ▾

Details Add ▾ Basemap Analysis Save ▾ Share Print ▾ Directions Measure Bookmarks Find address or place 🔍

About Content Legend

Contents

- ✓ RoadAssets DataPortal - Traffic Signal Sites
- ▶ Imagery Hybrid



RoadAssets DataPortal - Traffic Signal Sites (Features: 1, Selected: 1)

LM No	Service Status	Signal Type	Node ID	Intersection Number	Intersection Description
LM01139	In Service	Intersection	40,466.00	040466	Bannister Rd & Baile Rd

Trust Center Contact Esri Report Abuse Contact Us



Real-Time Traffic Data at Signal... x LM01139.jpg (1820x1160) x Historic Traffic Data 2015 to 2019 x Historic Traffic Data 2015 to 2019 x +

https://portal-mainroads.opendata.arcgis.com/datasets/historic-traffic-data-1/data?layer=1&where=M\_Link\_ID%20>%3D%20791%20AND%20M\_Link\_ID%20<%3D%20791%20AND%20Month%20%3D%20April%20%202019

Open Data, Maps & Apps Main Roads WA data.wa.gov.au

Perth

Mandurah

Overview Data API Explorer

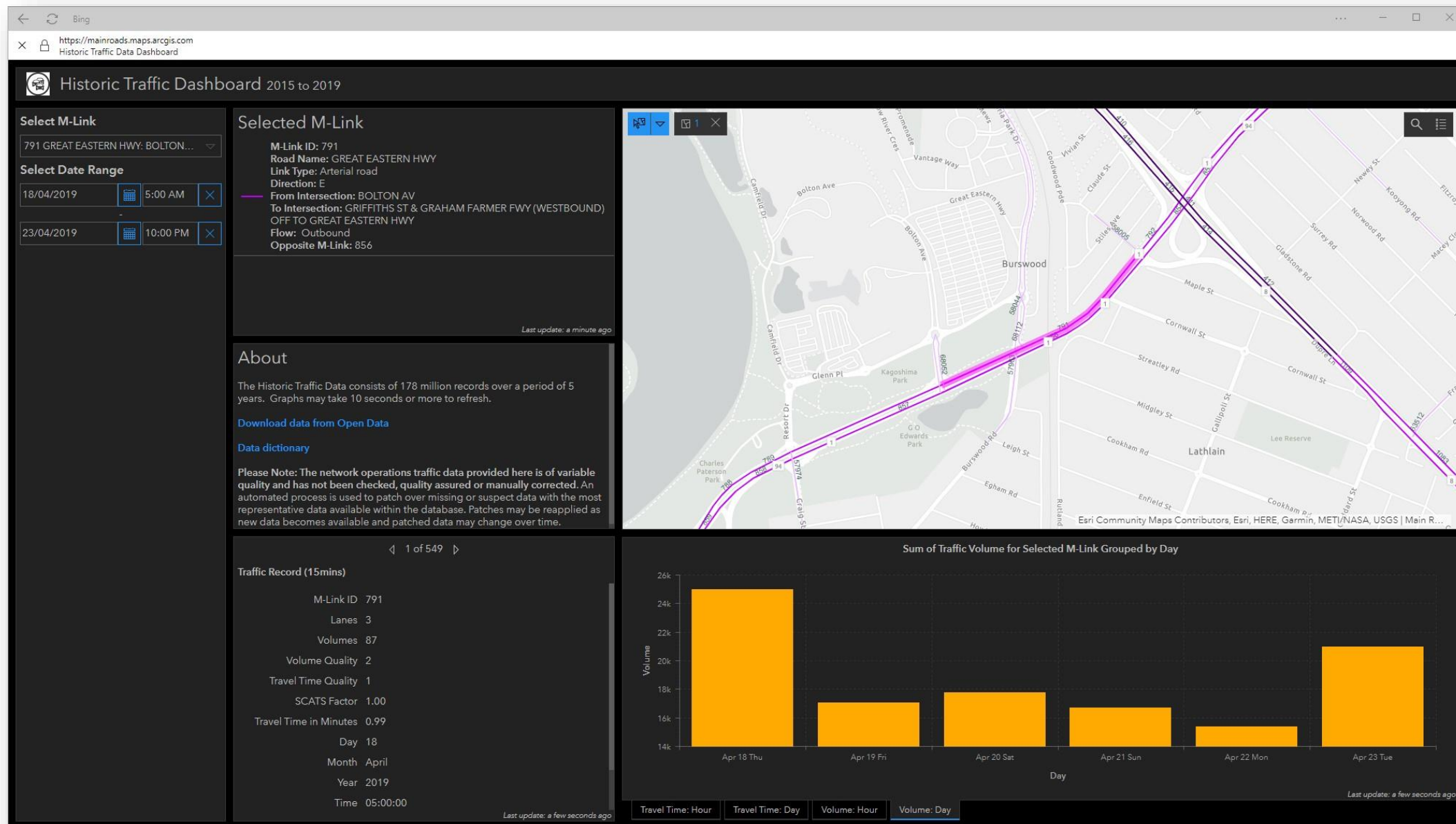
24/07/2020 Feature Service

2 Layers Download APIs

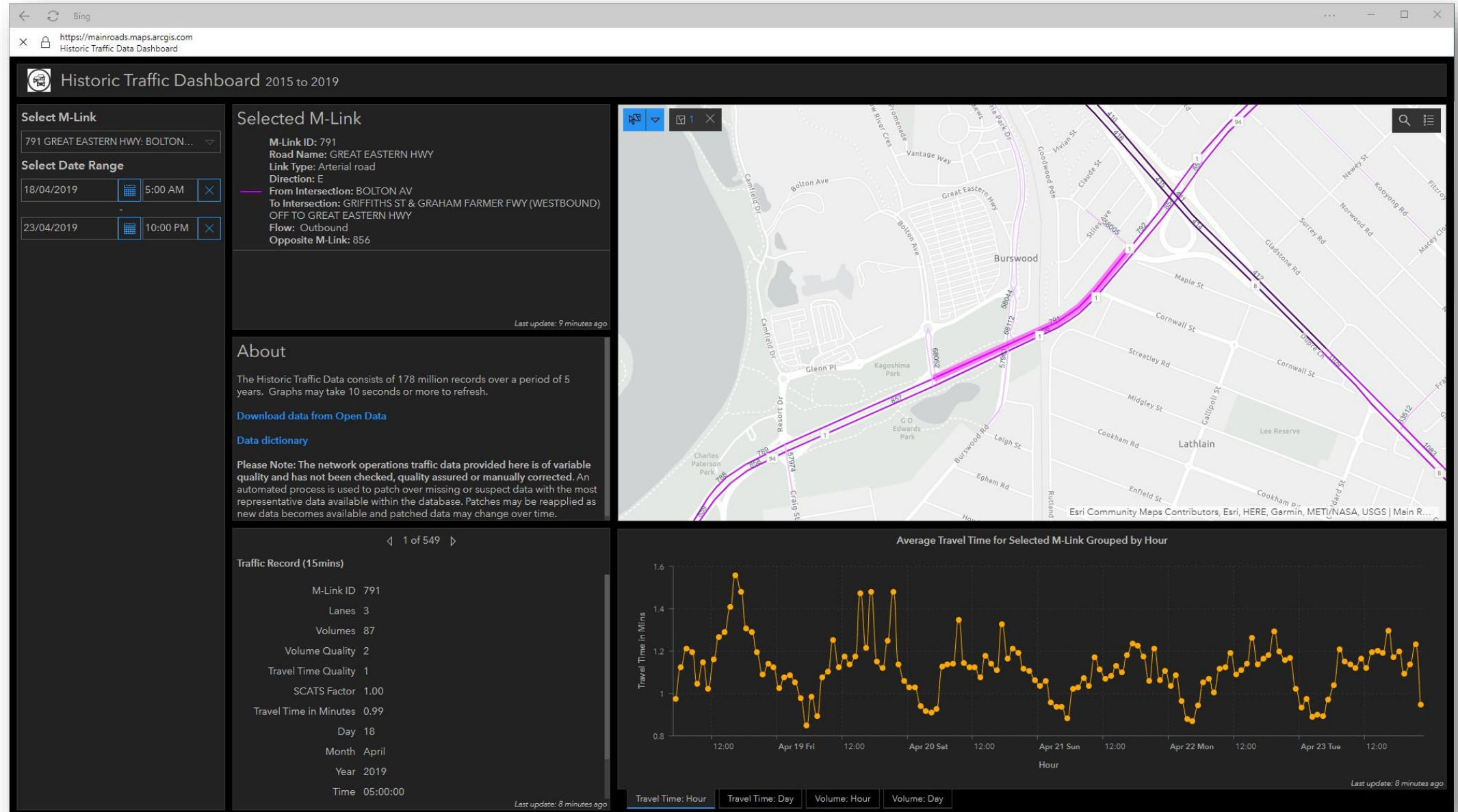
Showing 1 to 10 of 14,400 M-Link ID: 791 - 791 Month: April

Travel Time Quality	Travel Time Quality	SCATS Factor	Travel Time in Minutes	Day	Month	Year	Time	Date	Date
1	1	0.928857786896802	1	April	2019	00:00:00	01/04/2019, 00:00:00	01/04/2019, 00:00:00	01/04/2019, 00:00:00
1	1	0.910646241623112	1	April	2019	00:15:00	01/04/2019, 00:15:00	01/04/2019, 00:15:00	01/04/2019, 00:15:00
1	1	1.01646762254152	1	April	2019	00:30:00	01/04/2019, 00:30:00	01/04/2019, 00:30:00	01/04/2019, 00:30:00
1	1	0.844461212584575	1	April	2019	00:45:00	01/04/2019, 00:45:00	01/04/2019, 00:45:00	01/04/2019, 00:45:00
2	1	1.0407545609334	1	April	2019	01:00:00	01/04/2019, 01:00:00	01/04/2019, 01:00:00	01/04/2019, 01:00:00
1	1	0.962651273628319	1	April	2019	01:15:00	01/04/2019, 01:15:00	01/04/2019, 01:15:00	01/04/2019, 01:15:00
1	1	1.30472710863666	1	April	2019	01:30:00	01/04/2019, 01:30:00	01/04/2019, 01:30:00	01/04/2019, 01:30:00
1	1	0.866027512931157	1	April	2019	01:45:00	01/04/2019, 01:45:00	01/04/2019, 01:45:00	01/04/2019, 01:45:00
1	1	0.871634817718435	1	April	2019	02:00:00	01/04/2019, 02:00:00	01/04/2019, 02:00:00	01/04/2019, 02:00:00
2	1	0.785359727852659	1	April	2019	02:15:00	01/04/2019, 02:15:00	01/04/2019, 02:15:00	01/04/2019, 02:15:00

Full Dataset  
GeoService  
https://services2.arcgis.com/cHGE  
GeoJSON  
https://services2.arcgis.com/cHGE  
Filtered Dataset  
GeoService  
https://services2.arcgis.com/cHGE  
GeoJSON  
https://services2.arcgis.com/cHGE









# Thankyou