

DB4IoT with INRIX Trip Paths & Trip Reports

INRIX Webinar June 18, 2019

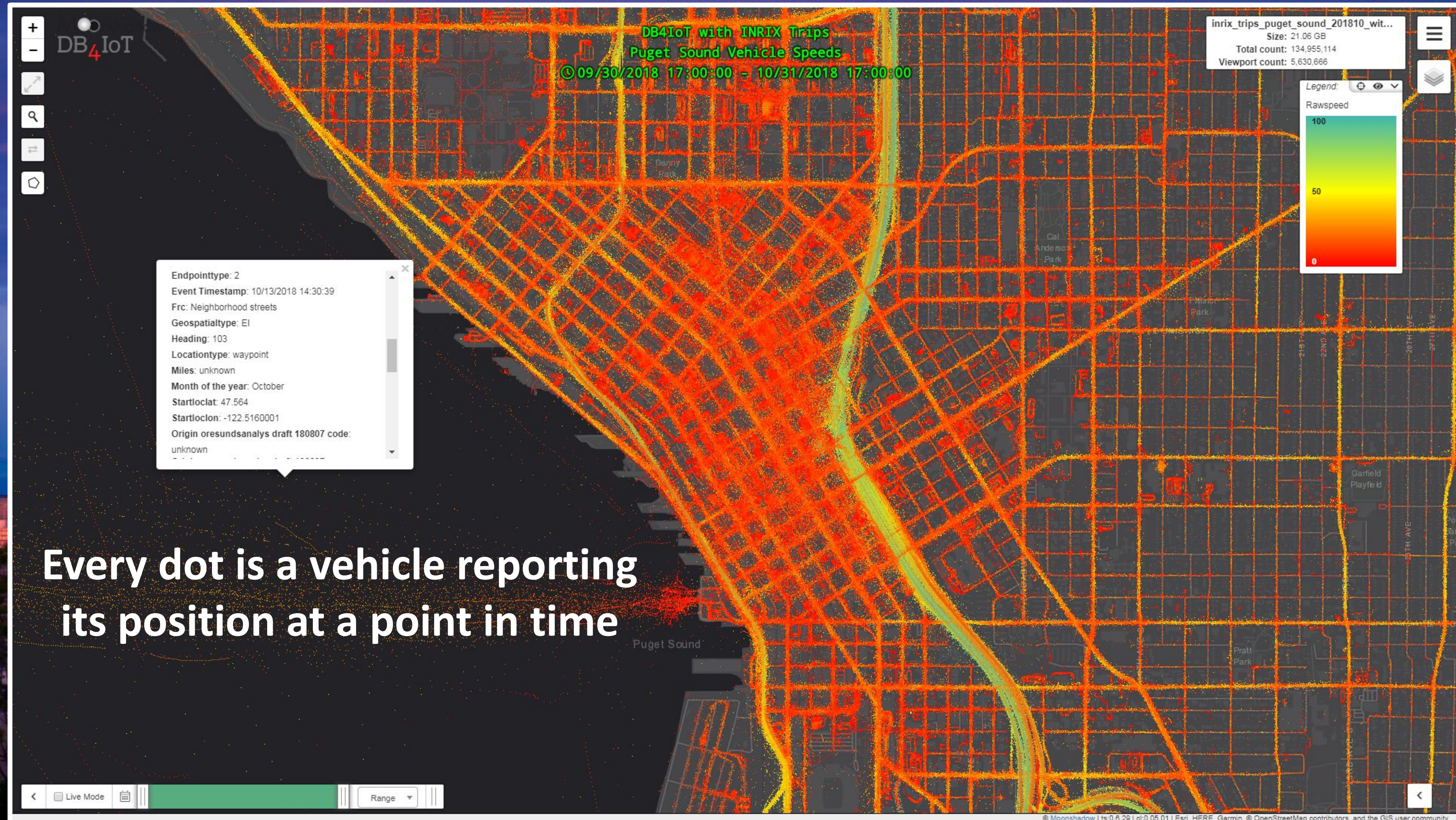
Eimar Boesjes
CEO, Moonshadow Mobile, Inc.

DKS

Moonshadow

DB₄IoT

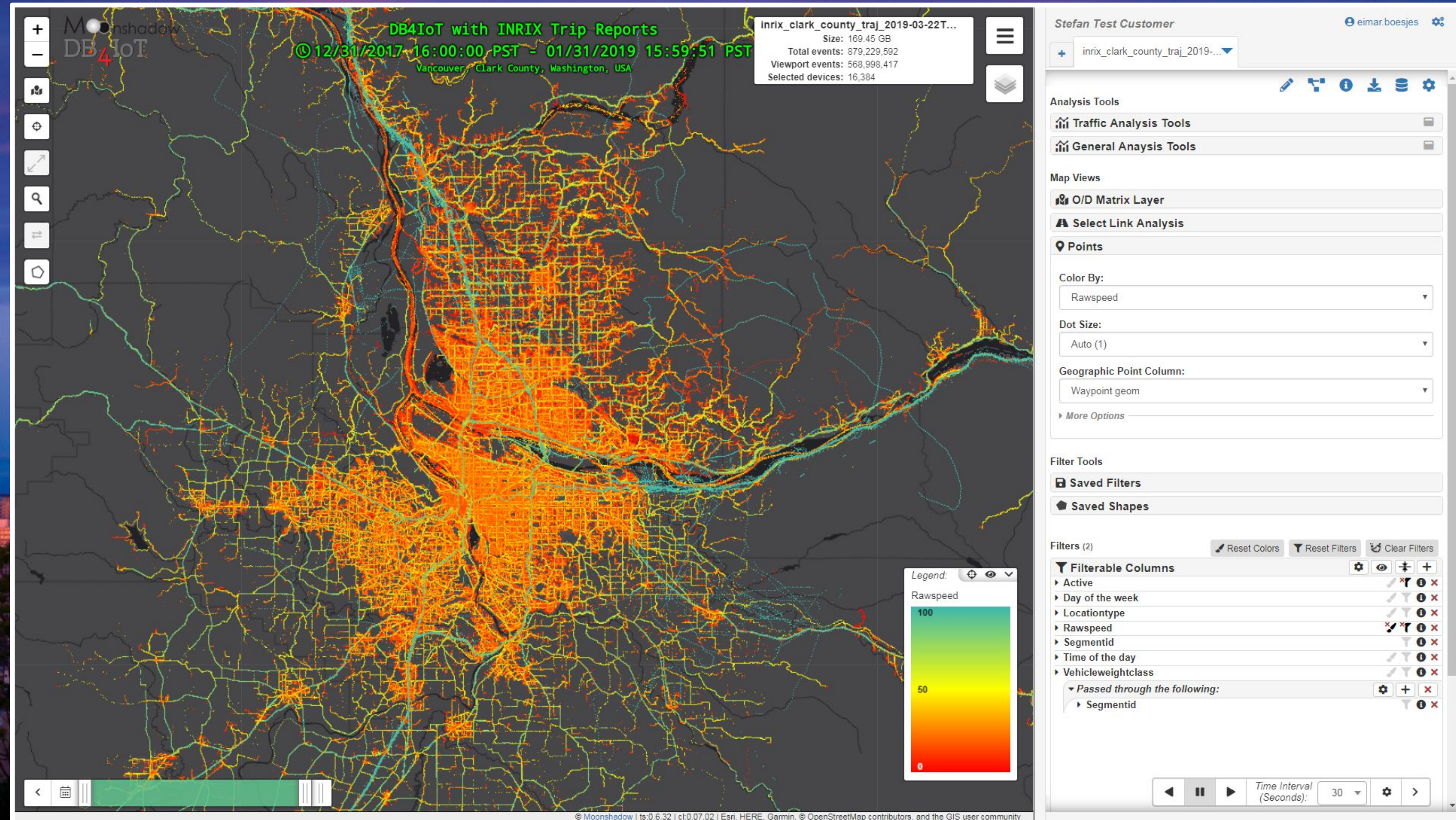
DB4IoT with INRIX Trip Reports shows Waypoints



Every dot is a vehicle reporting
its position at a point in time

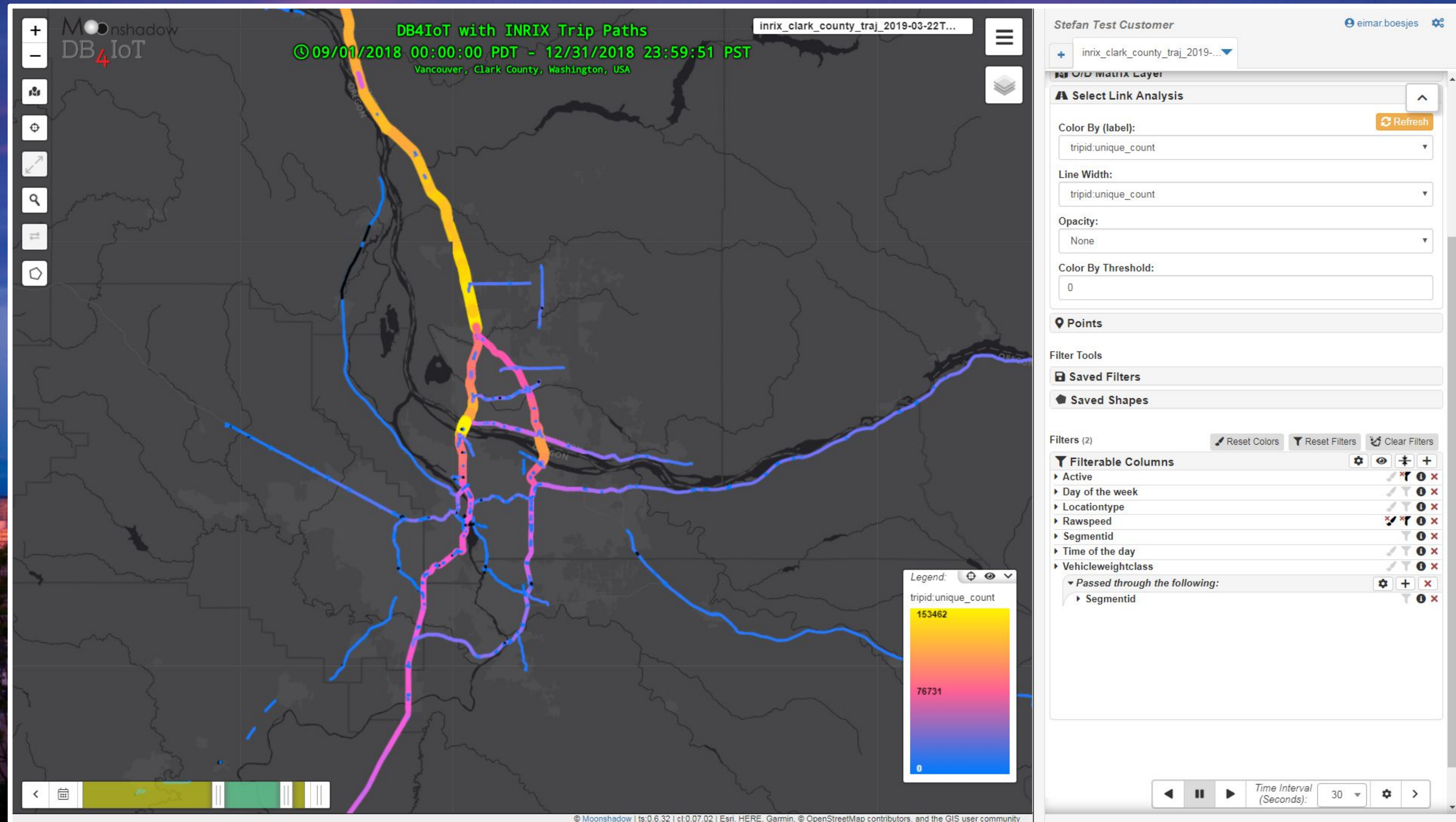
DB₄IoT

DB4IoT with INRIX Trip Reports can contain Billions of Waypoints



DB4IoT

DB4IoT with INRIX Trip Paths shows Road Segments



DB₄IoT

DB4IoT combines INRIX Trip Paths and Trip Reports data seamlessly

Waypoints are from Trip Reports
Trajectory Points are from Trip Paths

INRIX Trip Paths has twice as many
records as INRIX Trip Reports

Filters (2) Reset Colors Reset Filters Clear Filters

Filterable Columns ⚙️ 👁️ ✚️ +

▶ Active ✚️ ✚️ 🔍 ✖️

▶ Day of the week ✚️ ✚️ 🔍 ✖️

▼ Locationtype ✚️ ✚️ 🔍 ✖️

☒ Include unknown ☐ Hide empty rows

☒ Include undefined

	Events	
<input type="checkbox"/> Destination	0	0.00%
<input type="checkbox"/> Origin	929,256	0.40%
<input type="checkbox"/> Waypoint	70,514,462	30.59%
<input type="checkbox"/> Trajectory	159,033,641	69.00%
<input type="checkbox"/> Unknown	0	0.00%
<input type="checkbox"/> Undefined	0	0.00%

▶ Rawspeed ✚️ ✚️ 🔍 ✖️

▶ Segmentid ✚️ 🔍 ✖️

▶ Time of the day ✚️ ✚️ 🔍 ✖️

▶ Vehicleweightclass ✚️ ✚️ 🔍 ✖️

▶ Passed through the following: ⚙️ + ✖️

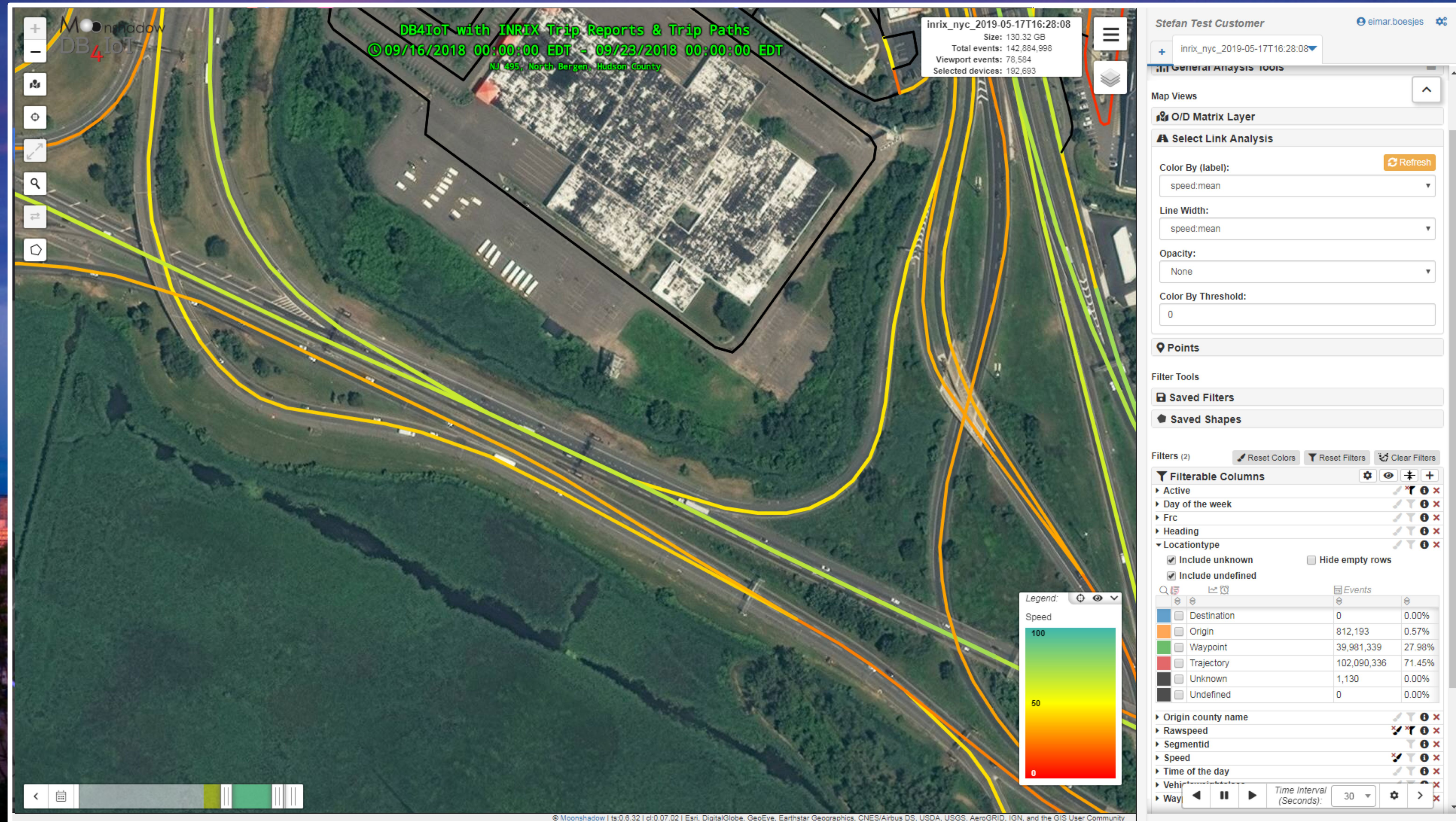
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INRIX Trip Reports shows speed differences between lanes



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INRIX Trip Paths shows a single speed per road segment



DB₄IoT

DB4IoT combines Trip Paths and Trip Reports data

Users can review the original source data
and work with the road line segments.



DB₄IoT

Example 1:

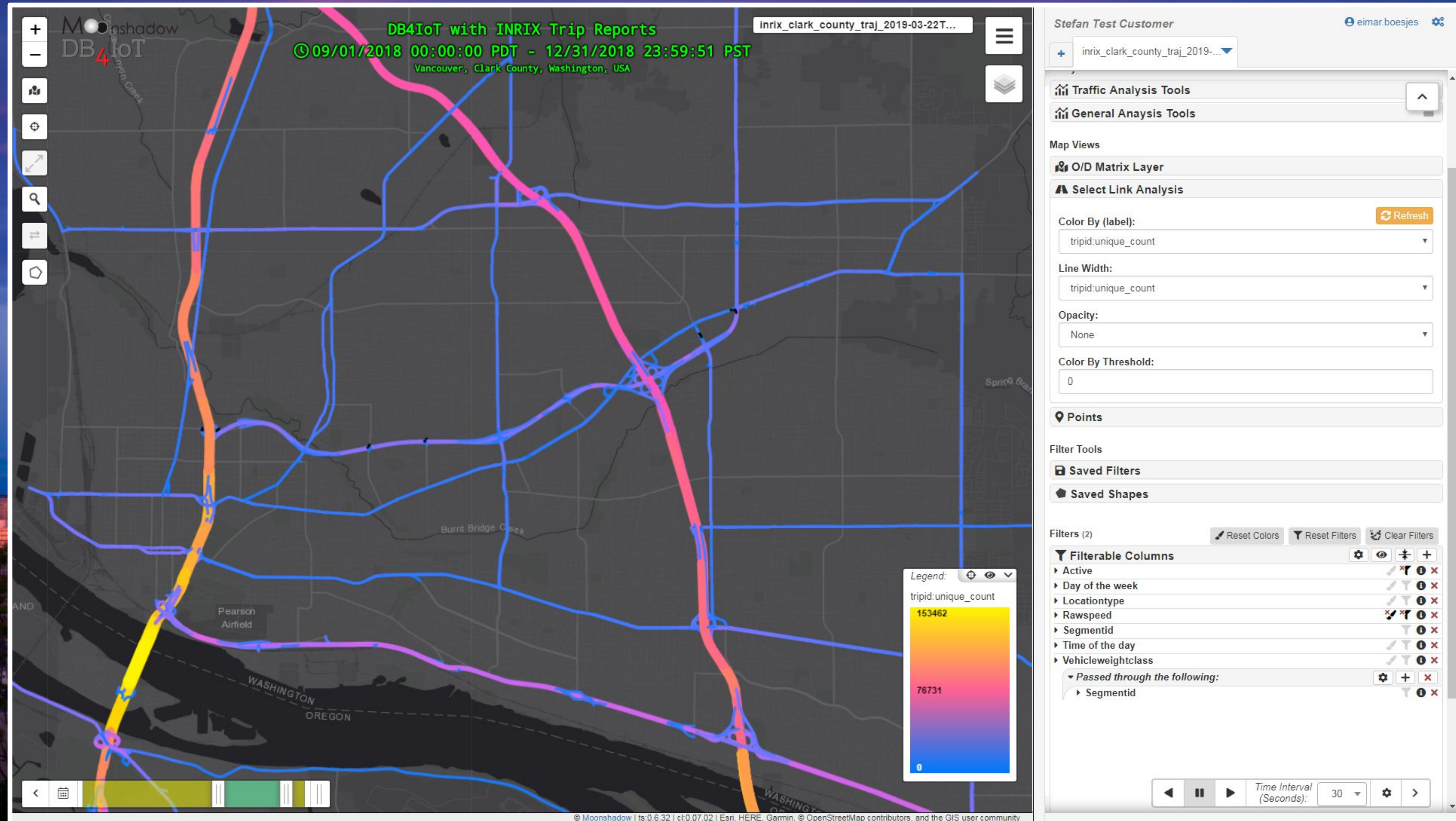
Interactive Select Link Analysis and O/D Matrix Generation in Clark County, WA

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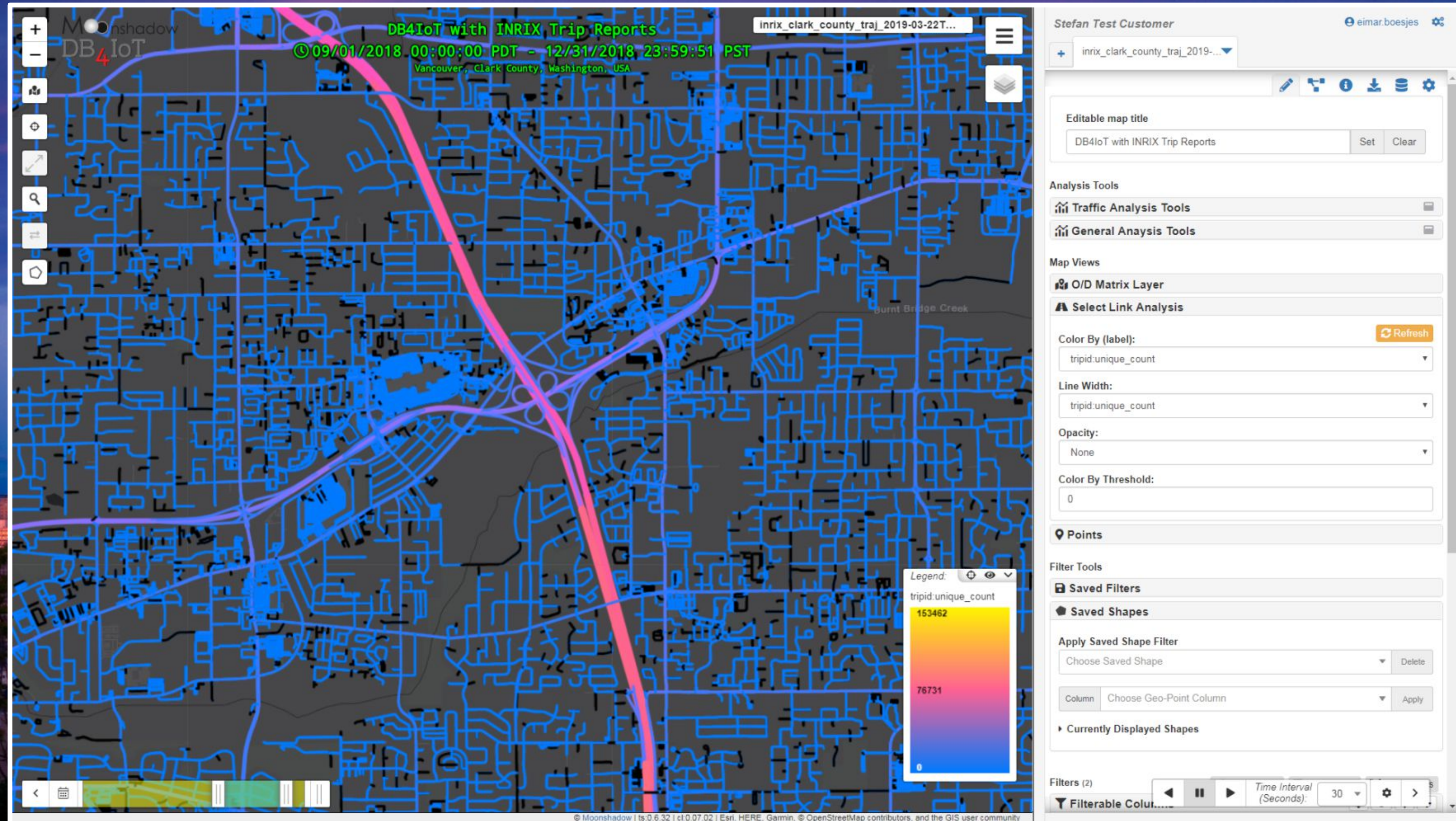
DB₄IoT

Zoom or pan to any area



DB₄IoT

As you zoom in smaller roads become visible



DB₄IoT

Click on a road segment to select it for Select Link Analysis

The screenshot displays the DB4IoT web application interface. The main map view shows a street network in Vancouver, British Columbia, with a road segment highlighted in pink. A tooltip for the selected segment displays the following data:

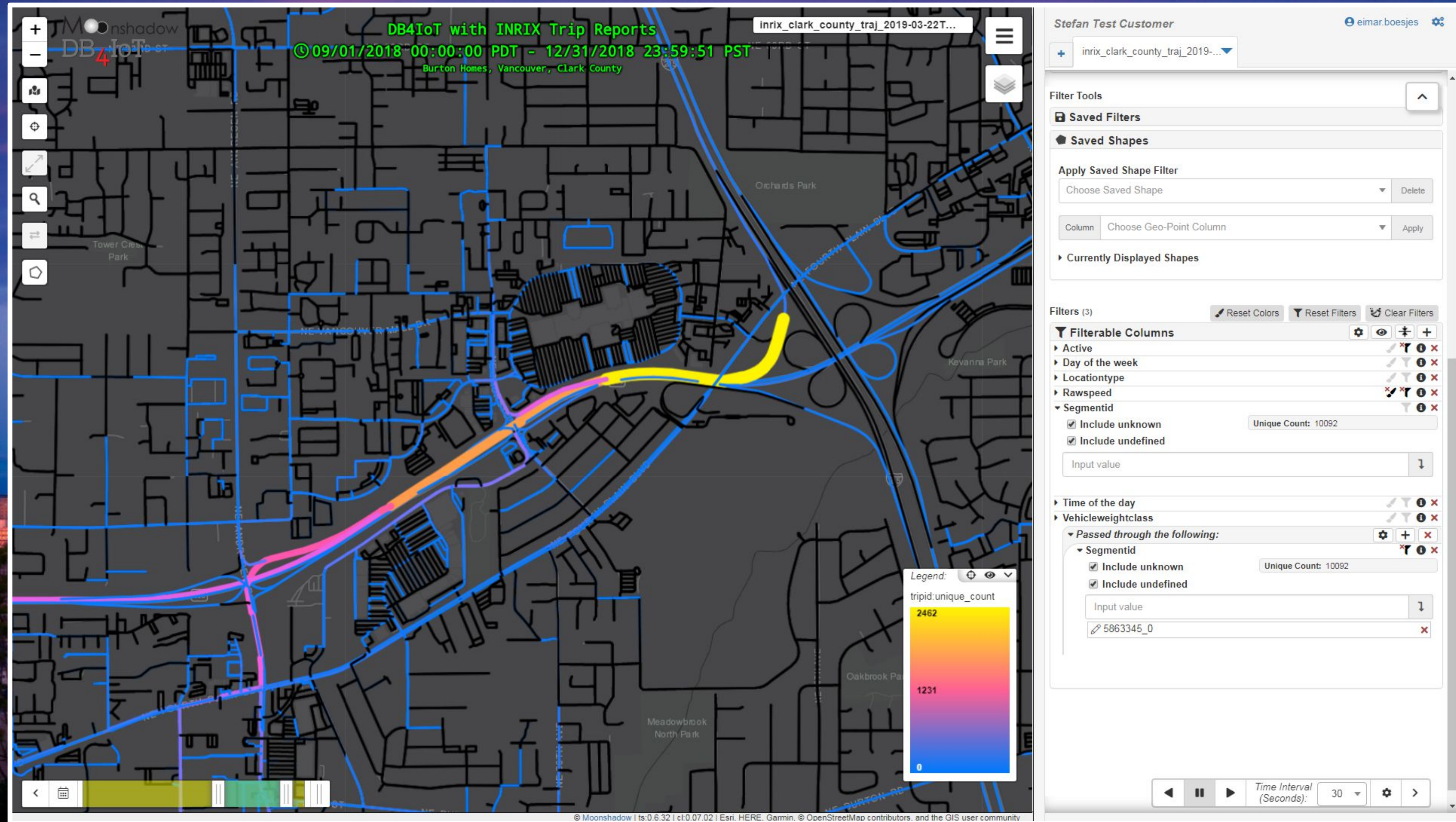
- tripid:unique_count: 2462
- tripid:unique_count: 2462
- fr: 1
- gid: 57939
- seg_id: 5863345_0
- way_id: 5863345
- sseg_id: 5863345
- to_node: 1237697265
- length_m: 315
- roadtype: motorway_link
- from_node: 47307900
- segmentid: 5863345_0

A legend for the 'tripid:unique_count' is shown, with a color scale ranging from 0 (blue) to 153462 (yellow). The right sidebar contains a filter panel for 'Stefan Test Customer' and 'inrix_clark_county_traj_2019-03-22T...'. The filter panel includes sections for 'Filter Tools', 'Saved Filters', 'Saved Shapes', 'Apply Saved Shape Filter', 'Currently Displayed Shapes', 'Filters (2)', 'Filterable Columns', and 'Time of the day'. The 'Filterable Columns' section shows a list of columns with checkboxes for 'Include unknown' and 'Include undefined'. The 'Time of the day' section shows a dropdown for 'Time Interval (Seconds)' set to 30.

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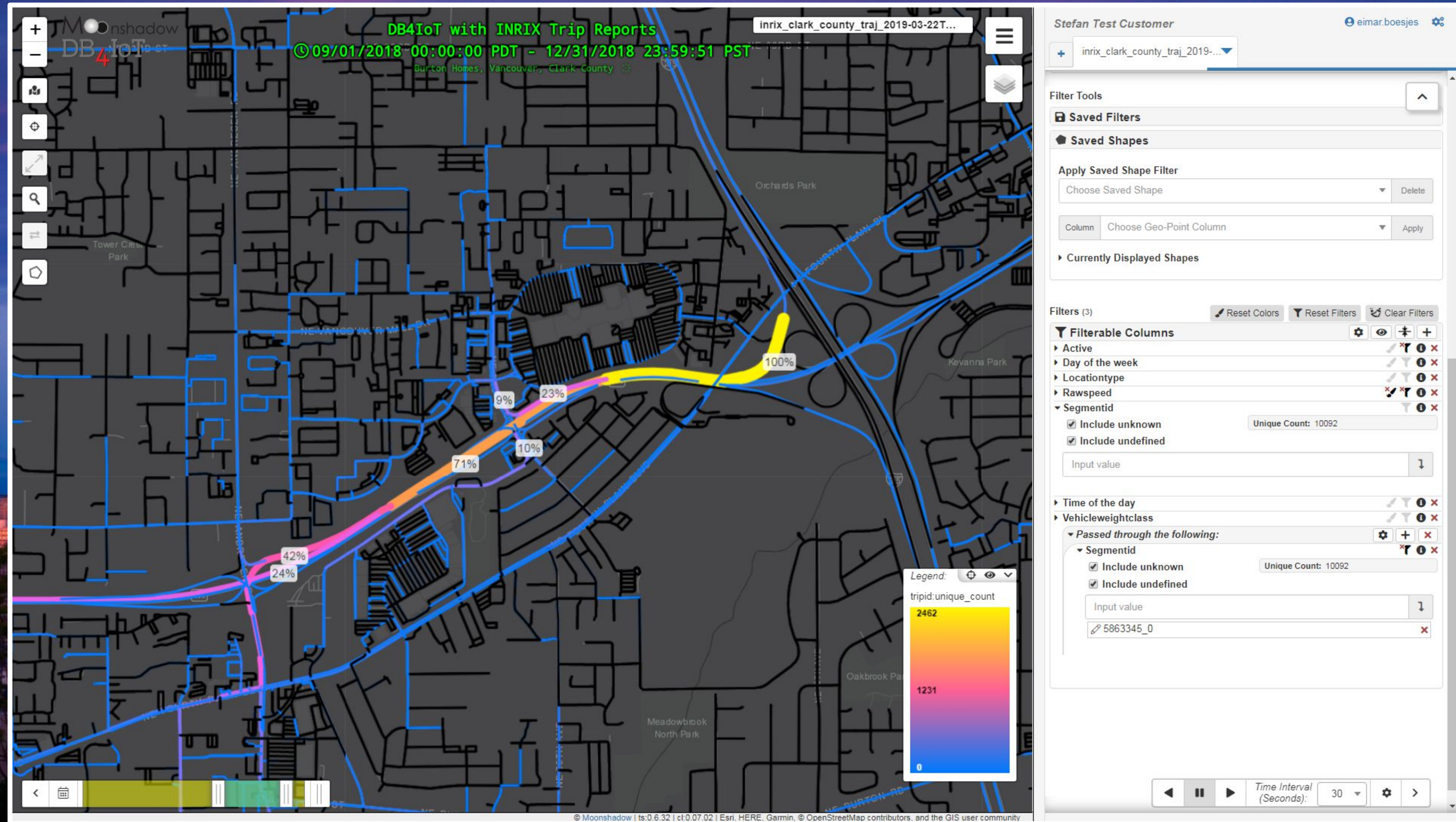
DB₄IoT

An off-ramp is selected as a pass-through filter



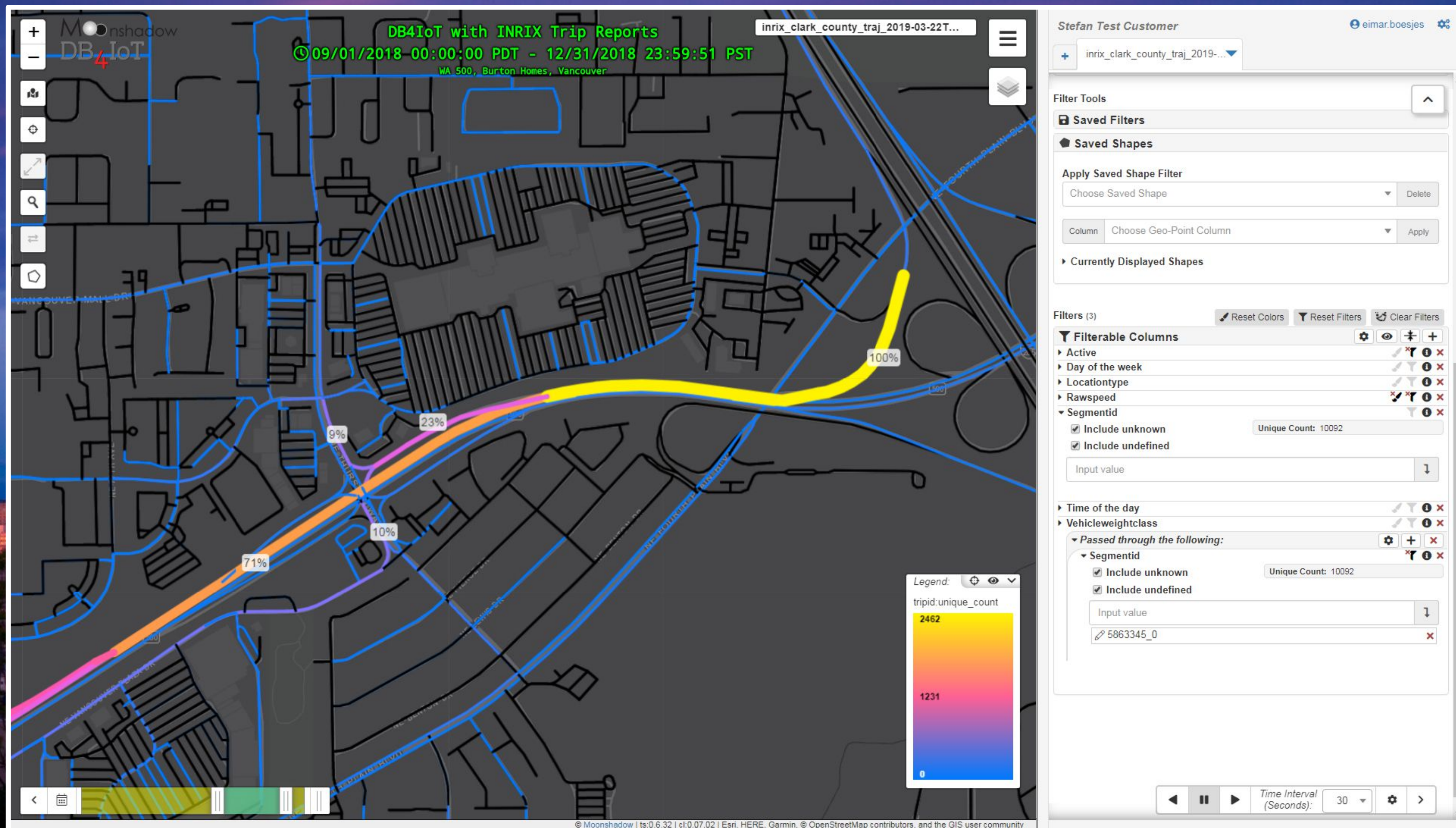
DB₄IoT

Place percentage labels



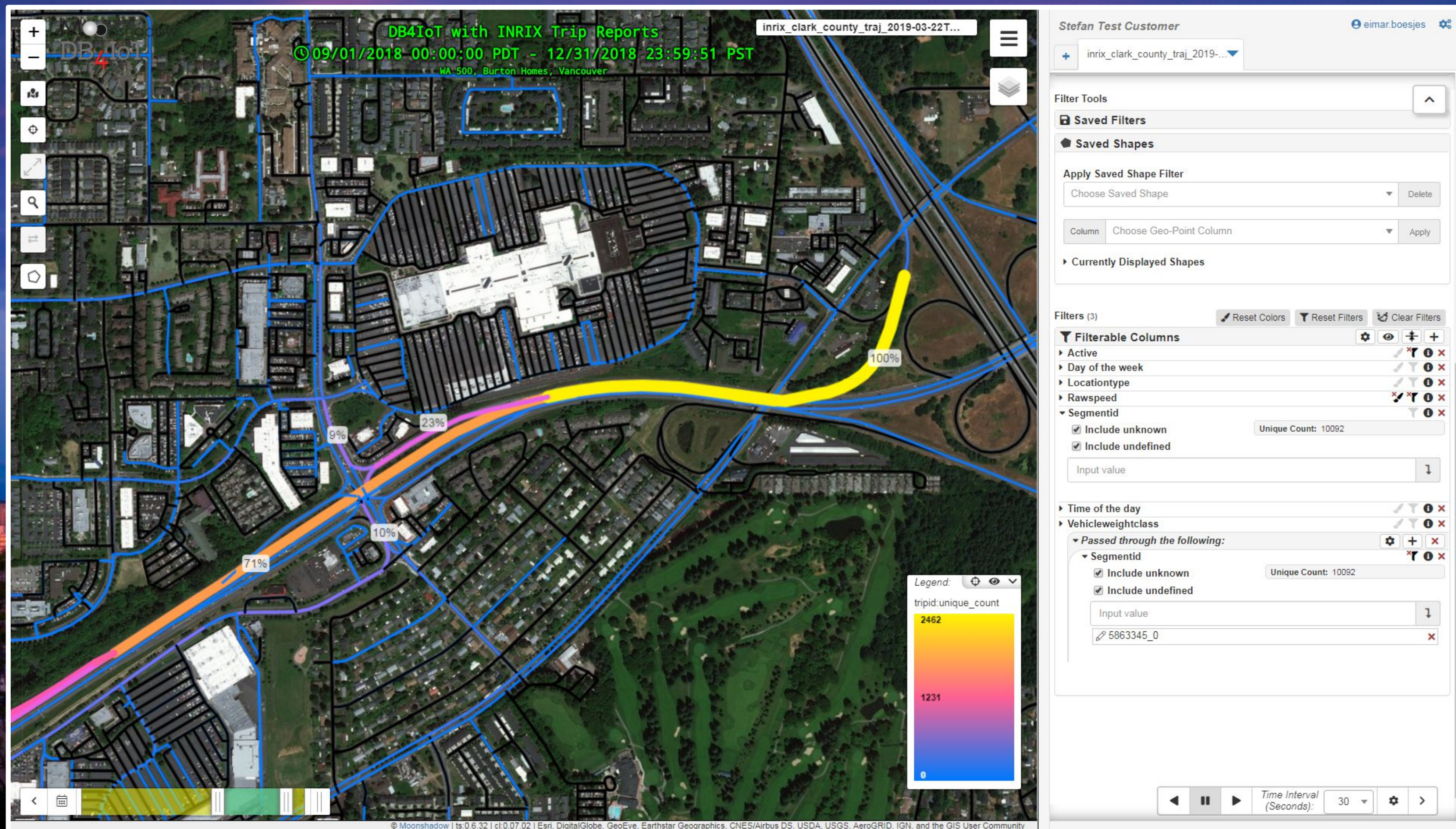
DB₄IoT

Zoom in further to see detail



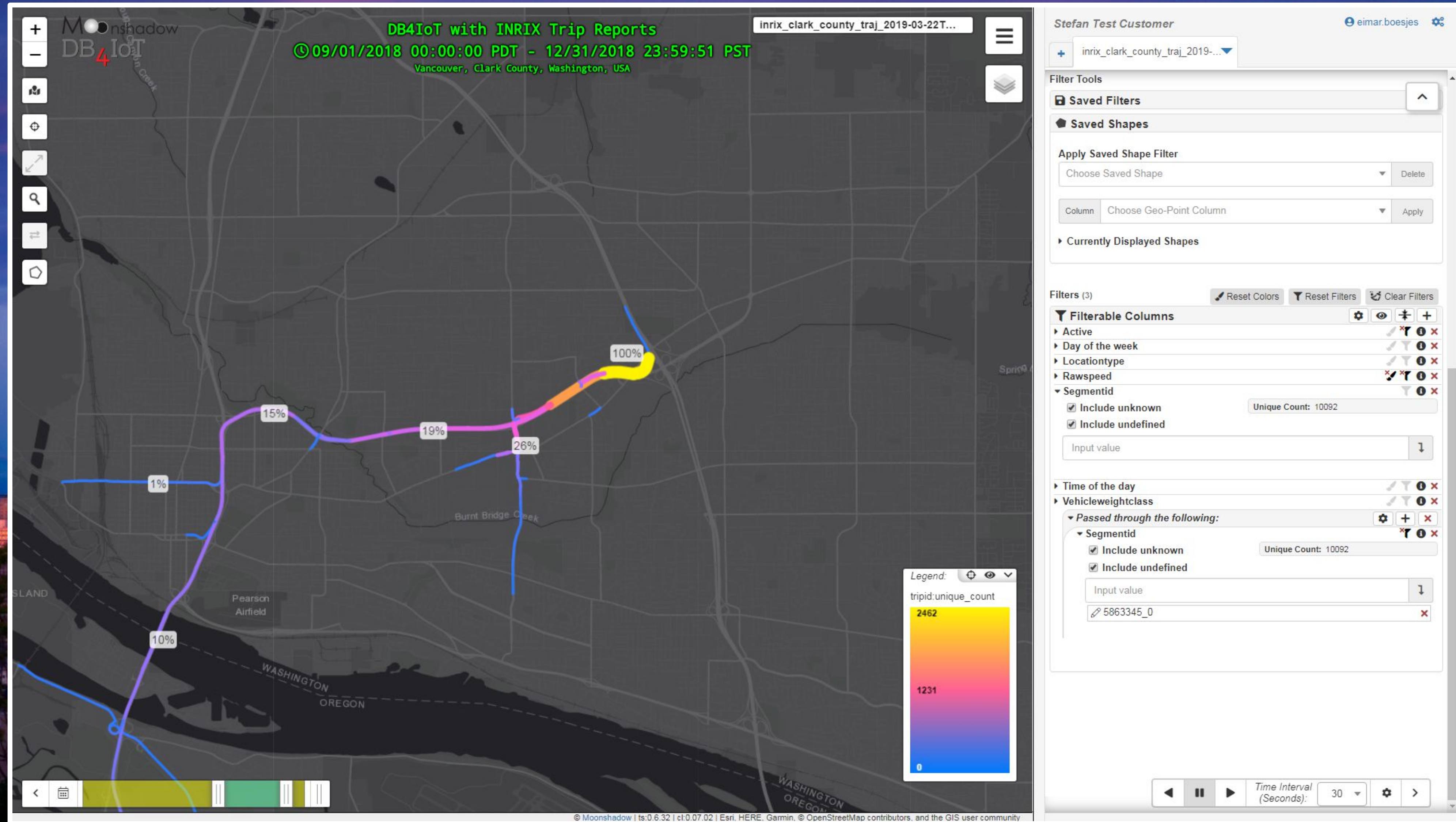
DB₄IoT

Switch to satellite background



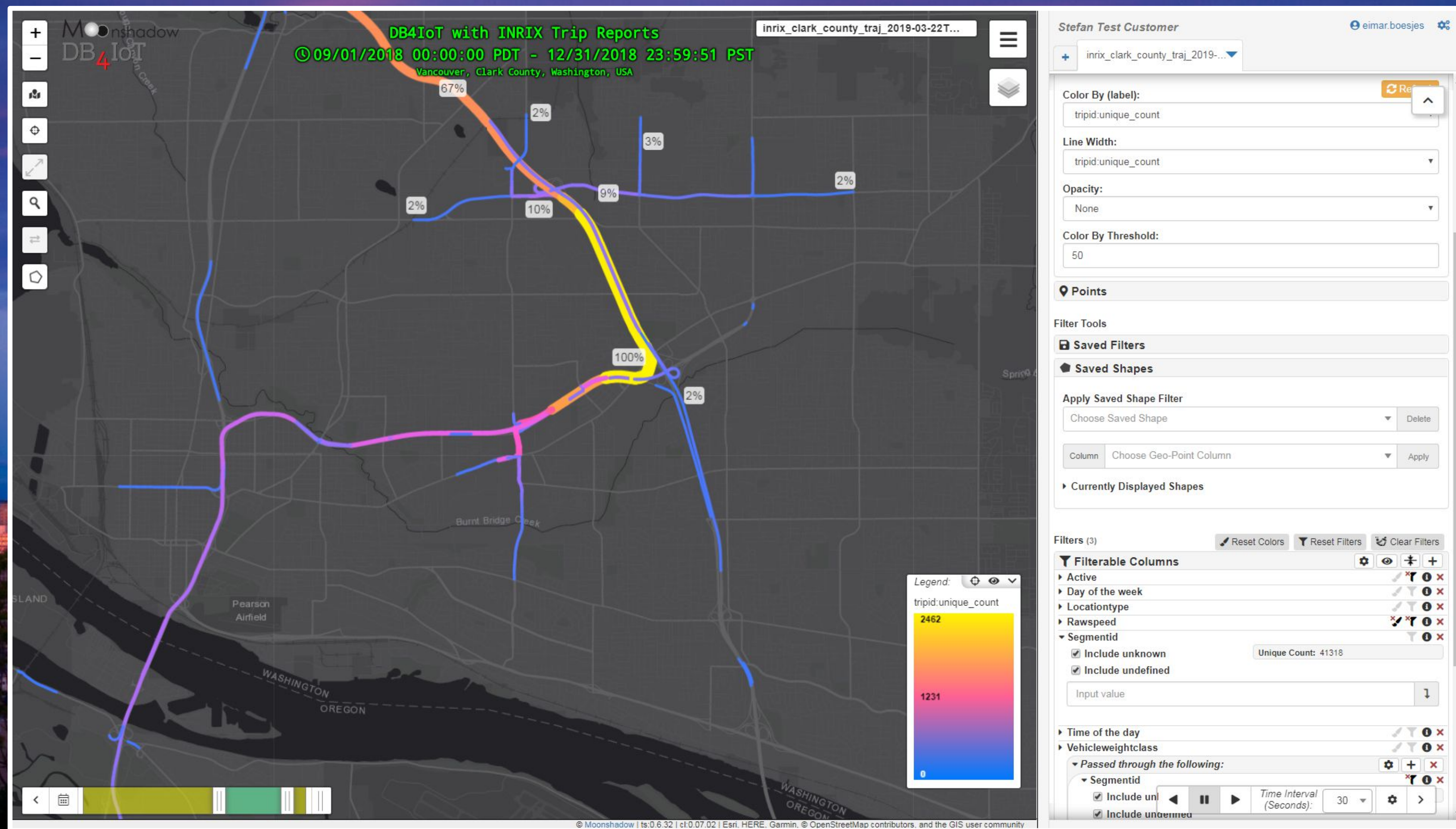
DB₄IoT

Zoom out to see where traffic is going to



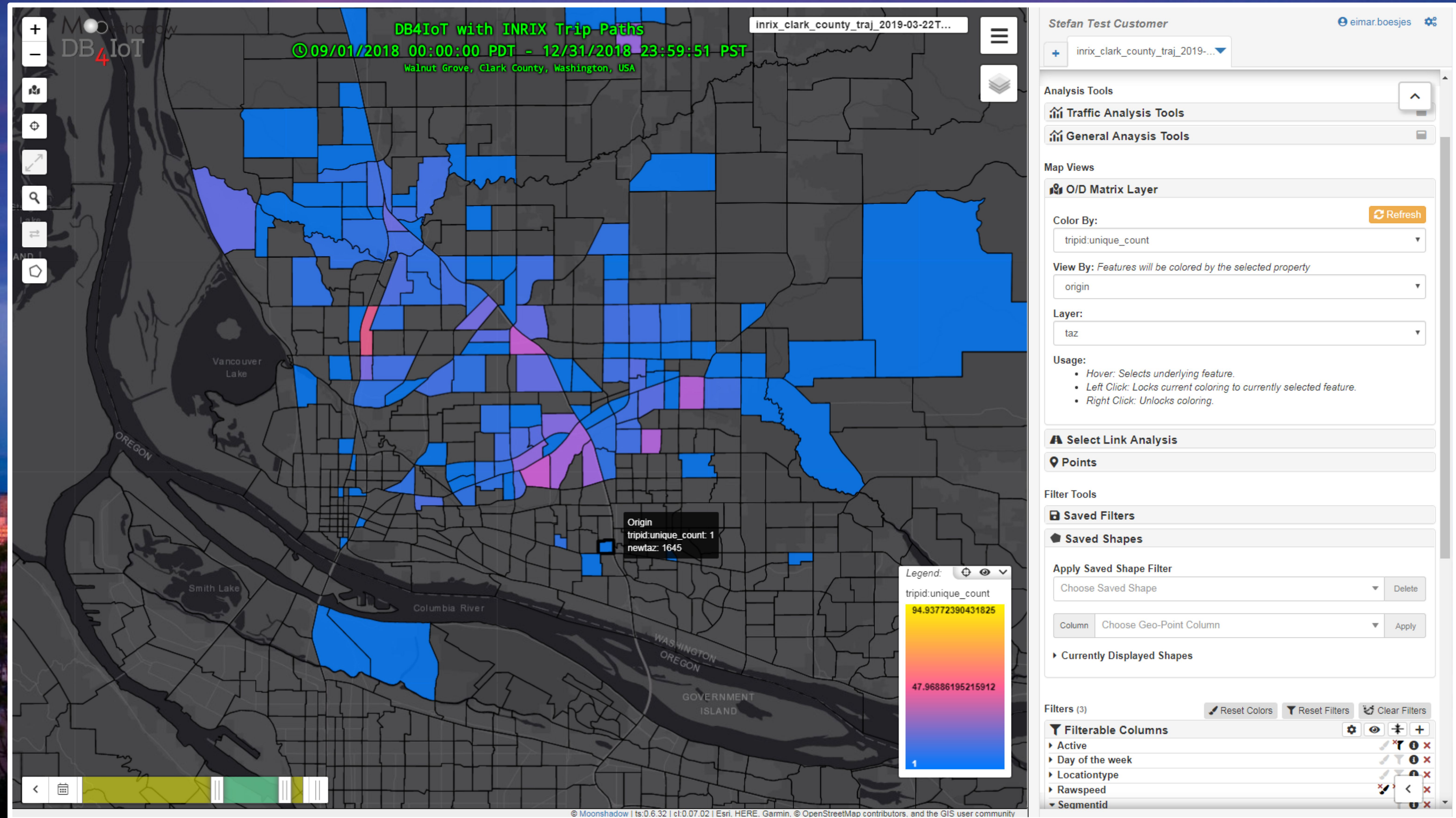
DB₄IoT

Visualize where traffic was coming from



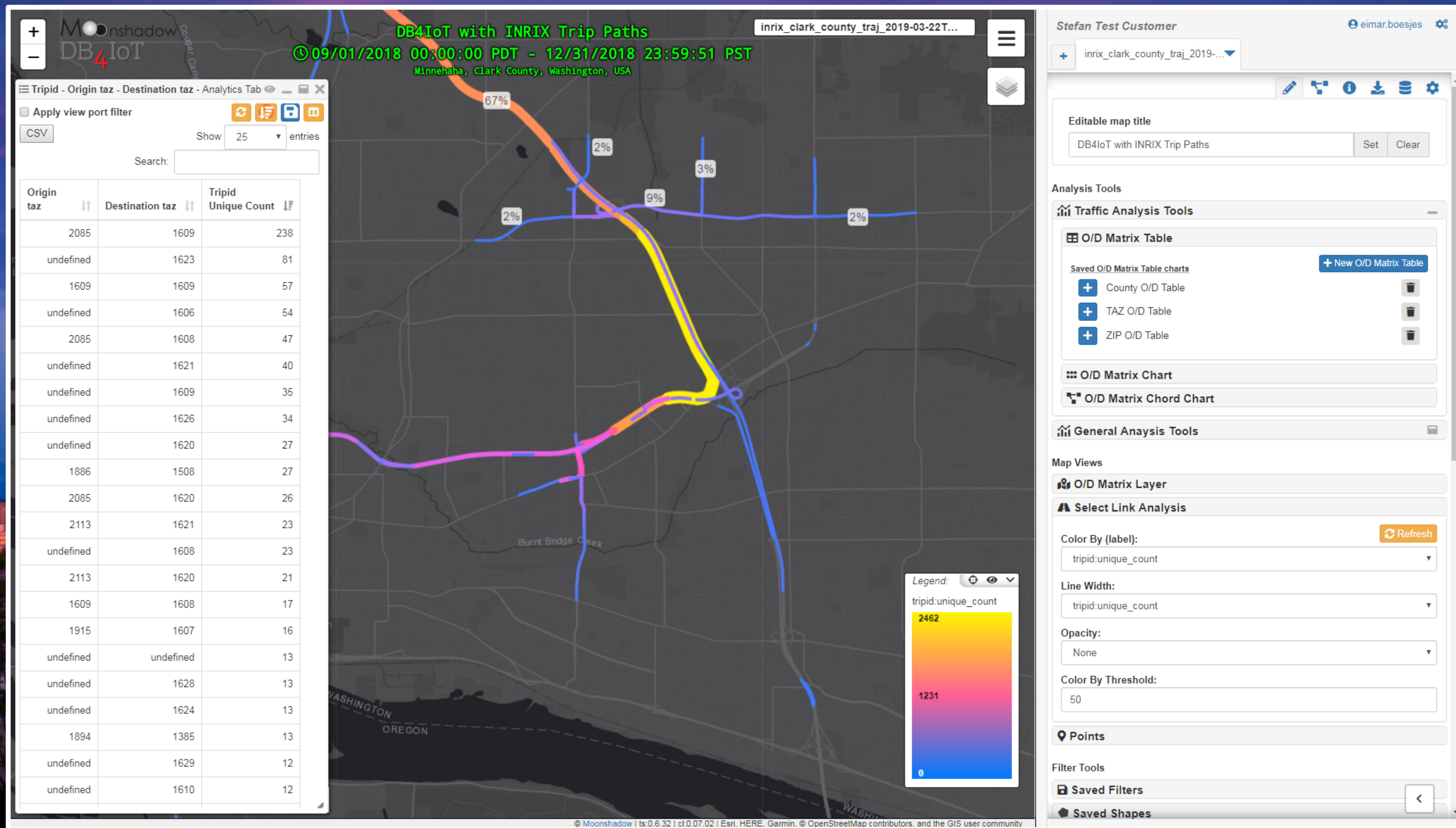
DB₄IoT

Visualize O/D by TAZ areas



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Generate an O/D Matrix



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Example 2:

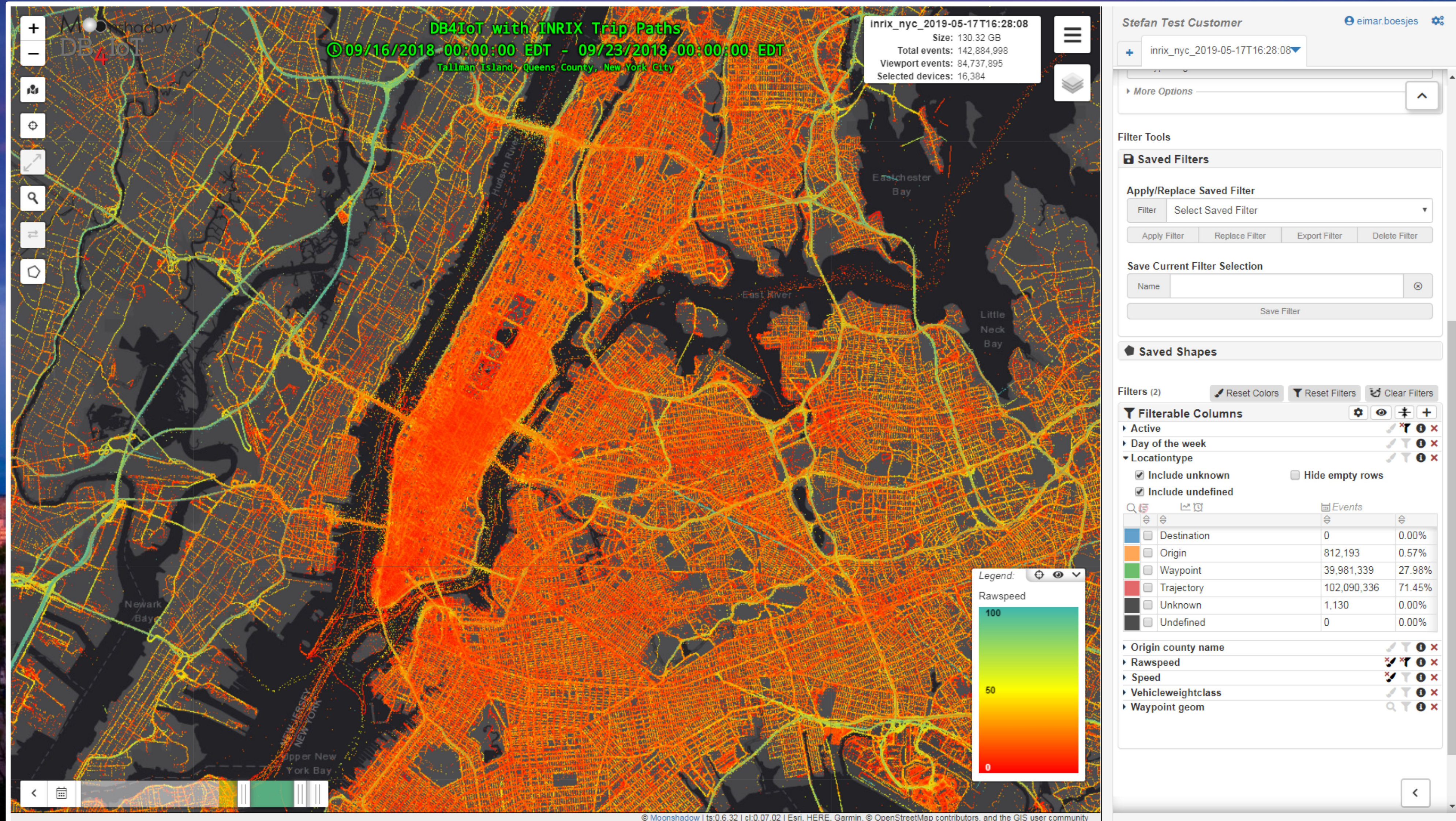
Traffic distribution between River Crossings in New York City

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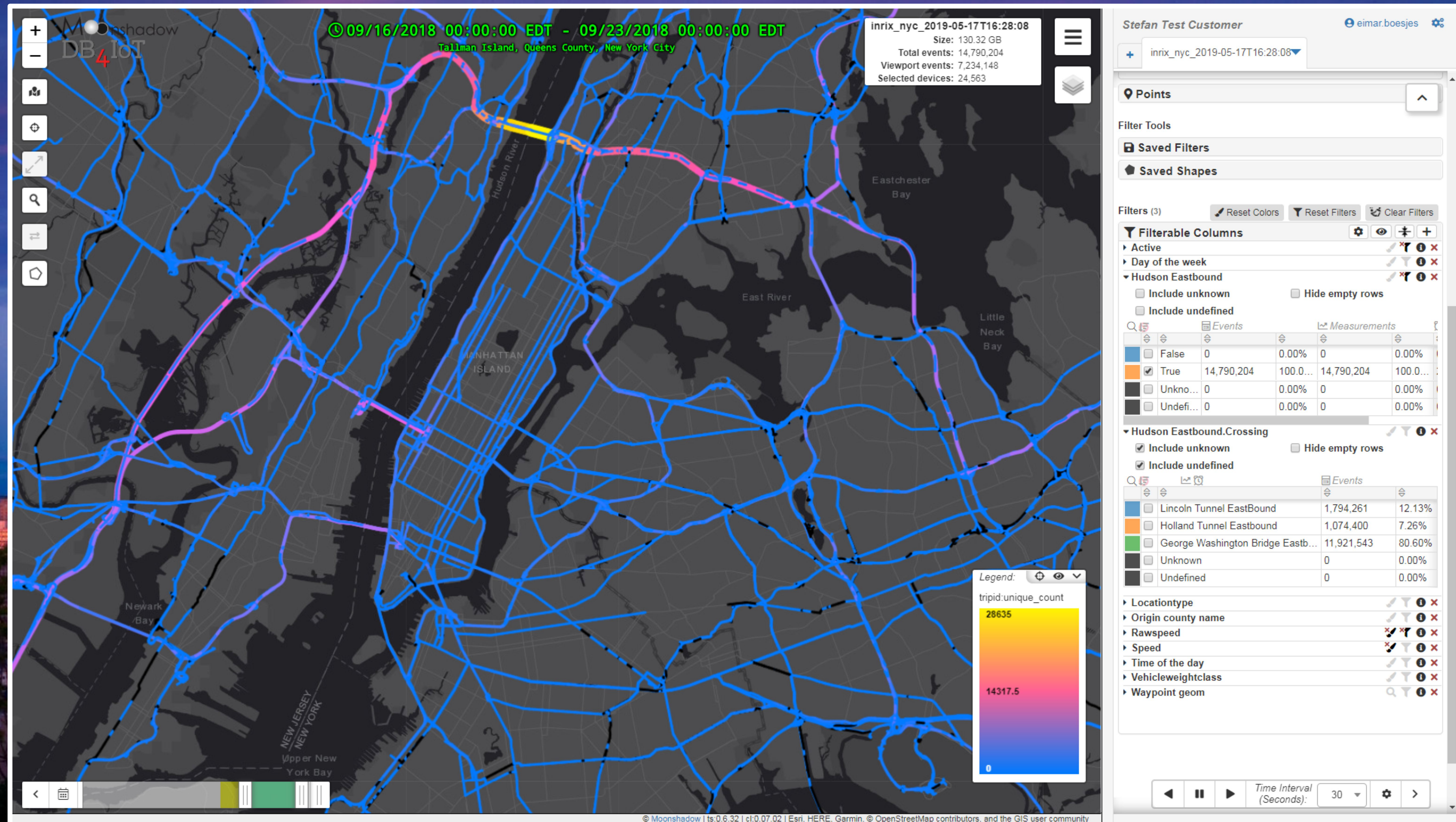
DB4IoT

Waypoints in New York City



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Road Segments in New York City



DB4IoT

Set George Washington Bridge Eastbound Filter

DB4IoT with INRIX Trip Paths
🕒 09/16/2018 00:00:00 EDT - 09/23/2018 00:00:00 EDT
Tallman Island, Queens County, New York City

inrix_nyc_2019-05-17T16:28:08
Size: 130.32 GB
Total events: 81,937
Viewport events: 80,884
Selected devices: 11,295

Legend:
deviceid:unique_count
11296
5648
0

Stefan Test Customer eimar.boesjes

Filter Tools
+ inrix_nyc_2019-05-17T16:28:08

Saved Filters
Apply/Replace Saved Filter
Filter: George Washington Bridge Eastbound
Apply Filter Replace Filter Export Filter Delete Filter

Save Current Filter Selection
Name:
Save Filter

Saved Shapes

Filters (3) Reset Colors Reset Filters Clear Filters

Filterable Columns

- Active
- Day of the week
- Locationtype
- Origin county name
- Rawspeed
- Segmentid
- Speed
- Vehicleweightclass
 - ☒ Include unknown
 - ☒ Include undefined
 - ☐ Hide empty rows

Waypoint geom

	Devices	
<input type="checkbox"/> Light Duty Truck/Passenger Vehi...	2,057	13.41%
<input type="checkbox"/> Medium Duty Trucks / Vans: rang...	6,187	40.33%
<input type="checkbox"/> Heavy Duty Trucks: > 26000 lb.	7,062	46.04%
<input type="checkbox"/> NaN	0	0.00%
<input type="checkbox"/> Unknown	34	0.22%
<input type="checkbox"/> Undefined	0	0.00%

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DB4IoT

Set Lincoln Tunnel Eastbound Filter

DB4IoT with INRIX Trip Paths
🕒 09/16/2018 00:00:00 EDT - 09/23/2018 00:00:00 EDT
Tallman Island, Queens County, New York City

inrix_nyc_2019-05-17T16:28:08
Size: 130.32 GB
Total events: 12,601
Viewport events: 12,599
Selected devices: 3,511

Stefan Test Customer eimar.boesjes

Filter Tools

Saved Filters

Apply/Replace Saved Filter
Filter: Lincoln Tunnel EastBound
Apply Filter Replace Filter Export Filter Delete Filter

Save Current Filter Selection
Name:
Save Filter

Saved Shapes

Filters (3) Reset Colors Reset Filters Clear Filters

Filterable Columns

- Active
- Day of the week
- Locationtype
- Origin county name
- Rawspeed
- Segmentid
- Speed
- Vehicleweightclass
 - ☒ Include unknown
 - ☒ Include undefined
 - ☐ Hide empty rows

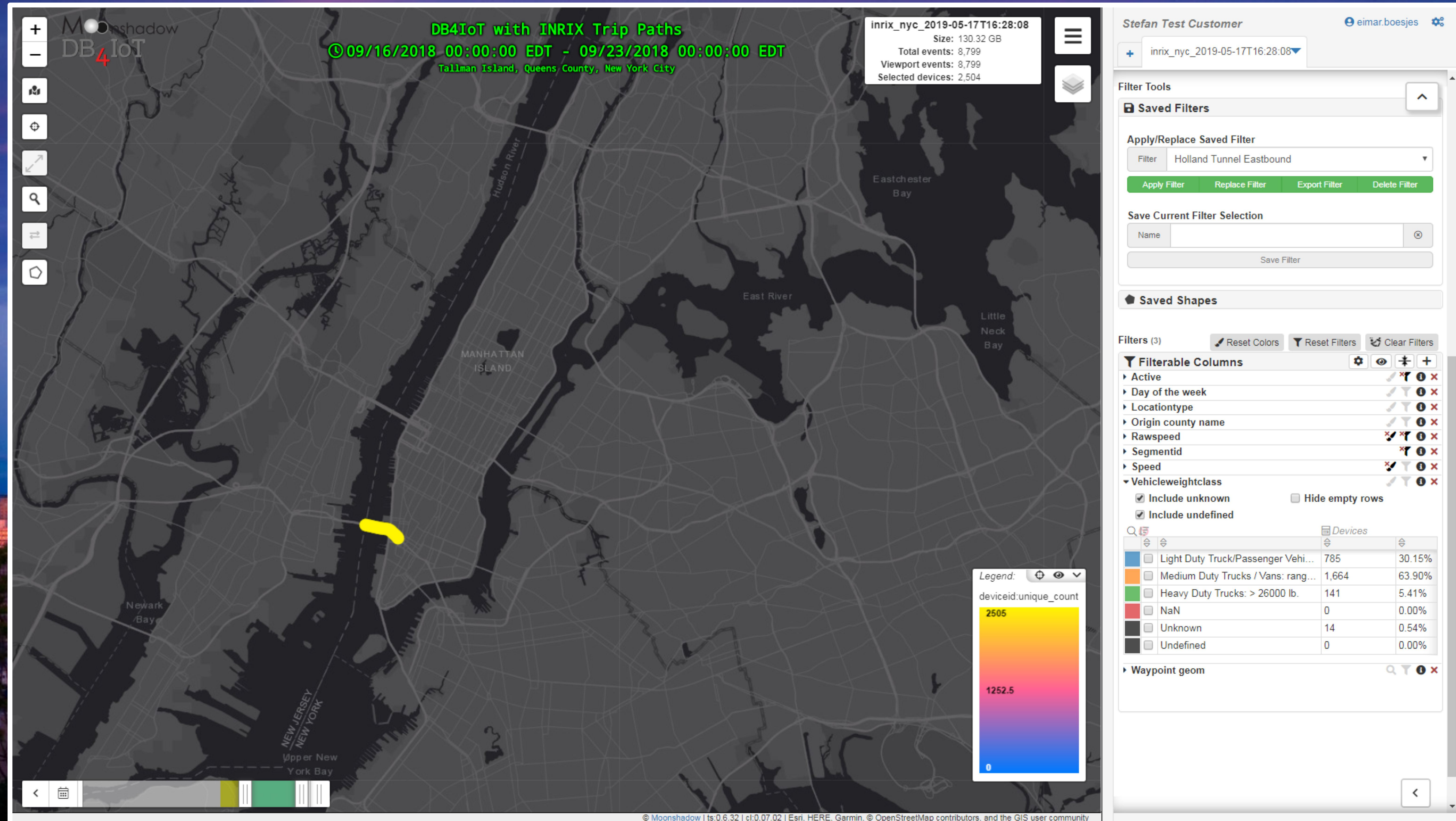
Waypoint geom

Legend:
deviceid:unique_count
3512
1756
0

	Devices	
<input type="checkbox"/> Light Duty Truck/Passenger Vehi...	770	20.74%
<input type="checkbox"/> Medium Duty Trucks / Vans: rang...	2,526	68.03%
<input type="checkbox"/> Heavy Duty Trucks: > 26000 lb.	409	11.02%
<input type="checkbox"/> NaN	0	0.00%
<input type="checkbox"/> Unknown	8	0.22%
<input type="checkbox"/> Undefined	0	0.00%

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Set Holland Tunnel Eastbound Filter



DB₄IoT

Create Hudson Crossings Filter Network

The screenshot displays the DB4IoT web application interface. On the left, a map of New York City is visible. In the center, a 'Build Network' dialog box is open, showing a table with the following data:

name	column_id
Hudson Eastbound	tripid

Below the table, there are three nodes on a network diagram:

- George Washington Bridge Eastbound (with a pink dashed circle around it)
- Lincoln Tunnel Eastbound
- Holland Tunnel Eastbound

A 'Filter Node Options' dialog box is open for the 'George Washington Bridge Eastbound' node, showing the following data:

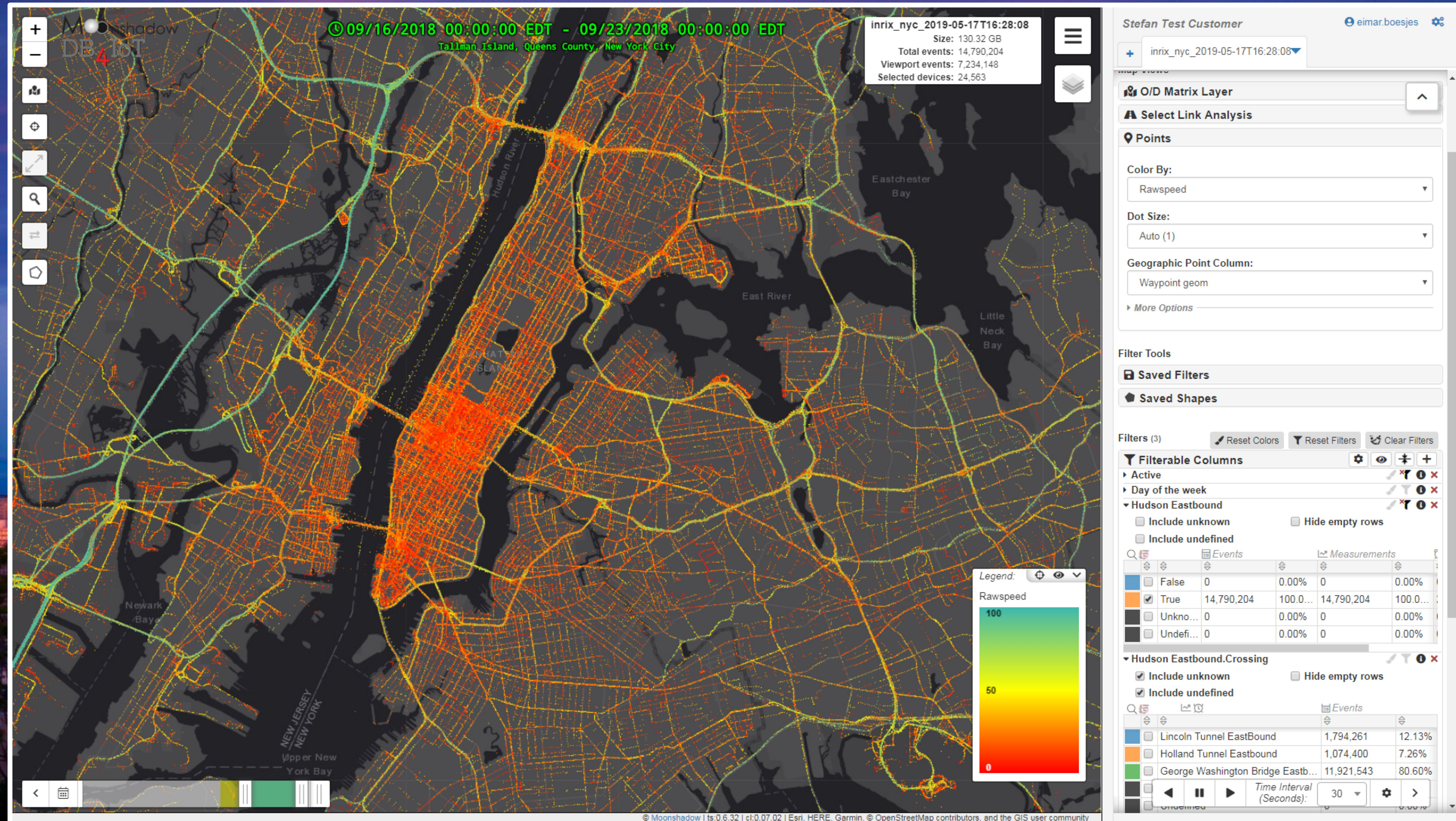
name	column_id	value
George Washington Bridge Es	Crossing	George Washington Bridge Es

At the bottom of the 'Build Network' dialog, there are 'Submit' and 'Cancel' buttons.

On the right side of the interface, there is a sidebar with various tools and settings. The 'Filter Networks' section is active, showing a dropdown menu for 'Select filter network' and buttons for 'Load', 'Edit', and 'Delete'. Below this, there are sections for 'Analysis Tools', 'Map Views', 'Select Link Analysis', 'Points', 'Filter Tools', 'Saved Filters', and 'Saved Shapes'.

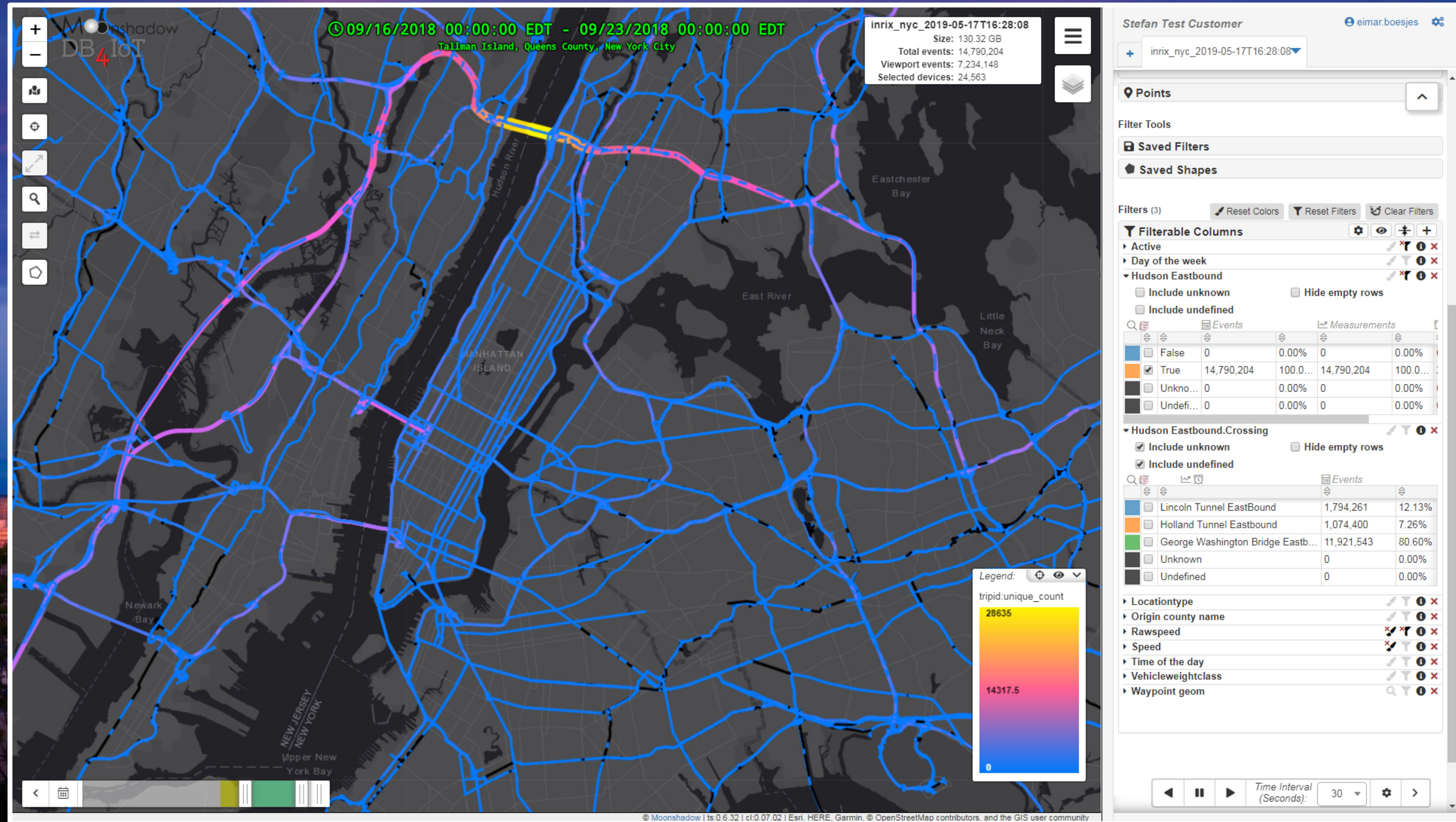
DB₄IoT

Apply Hudson Crossings Filter Network



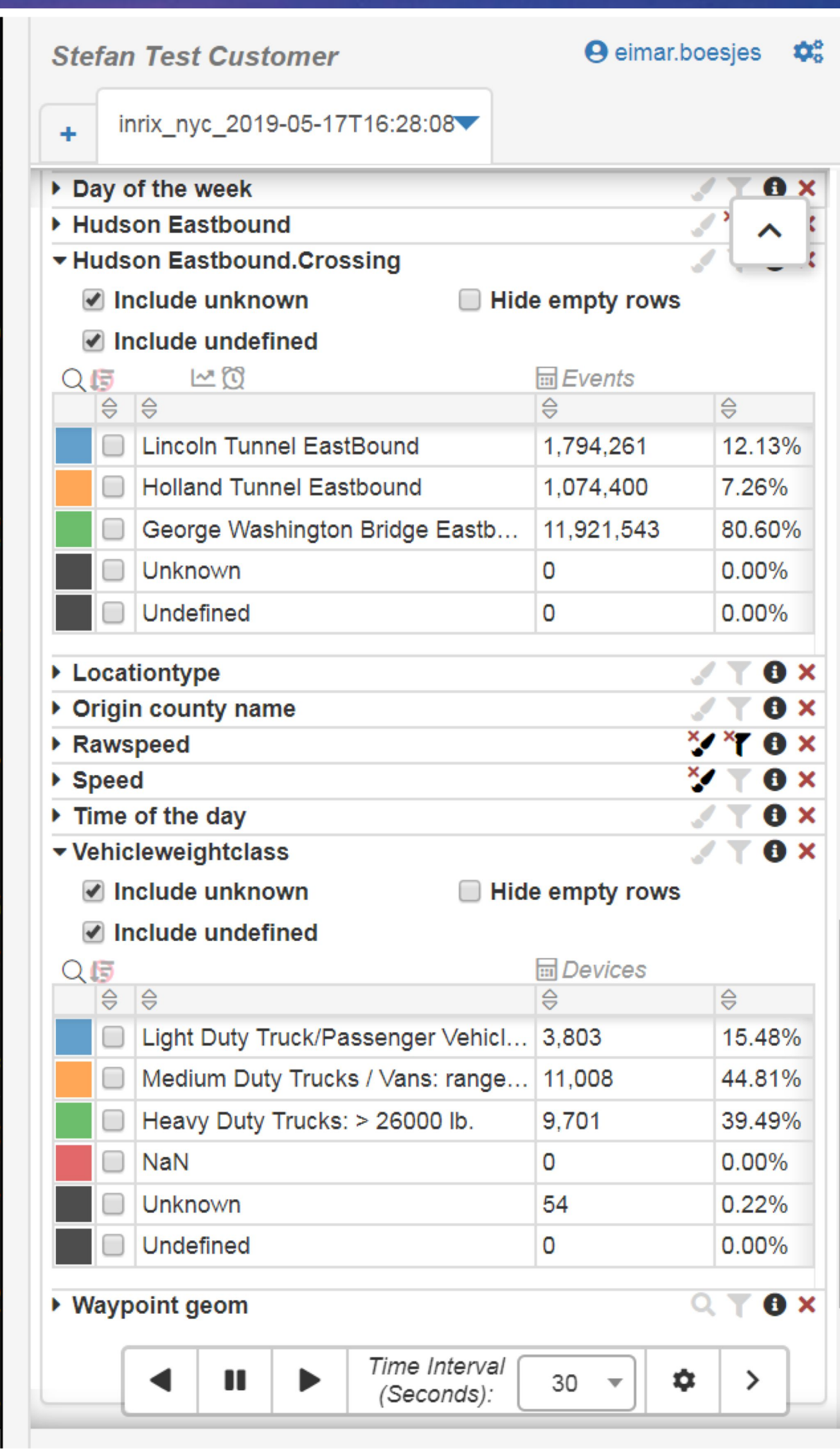
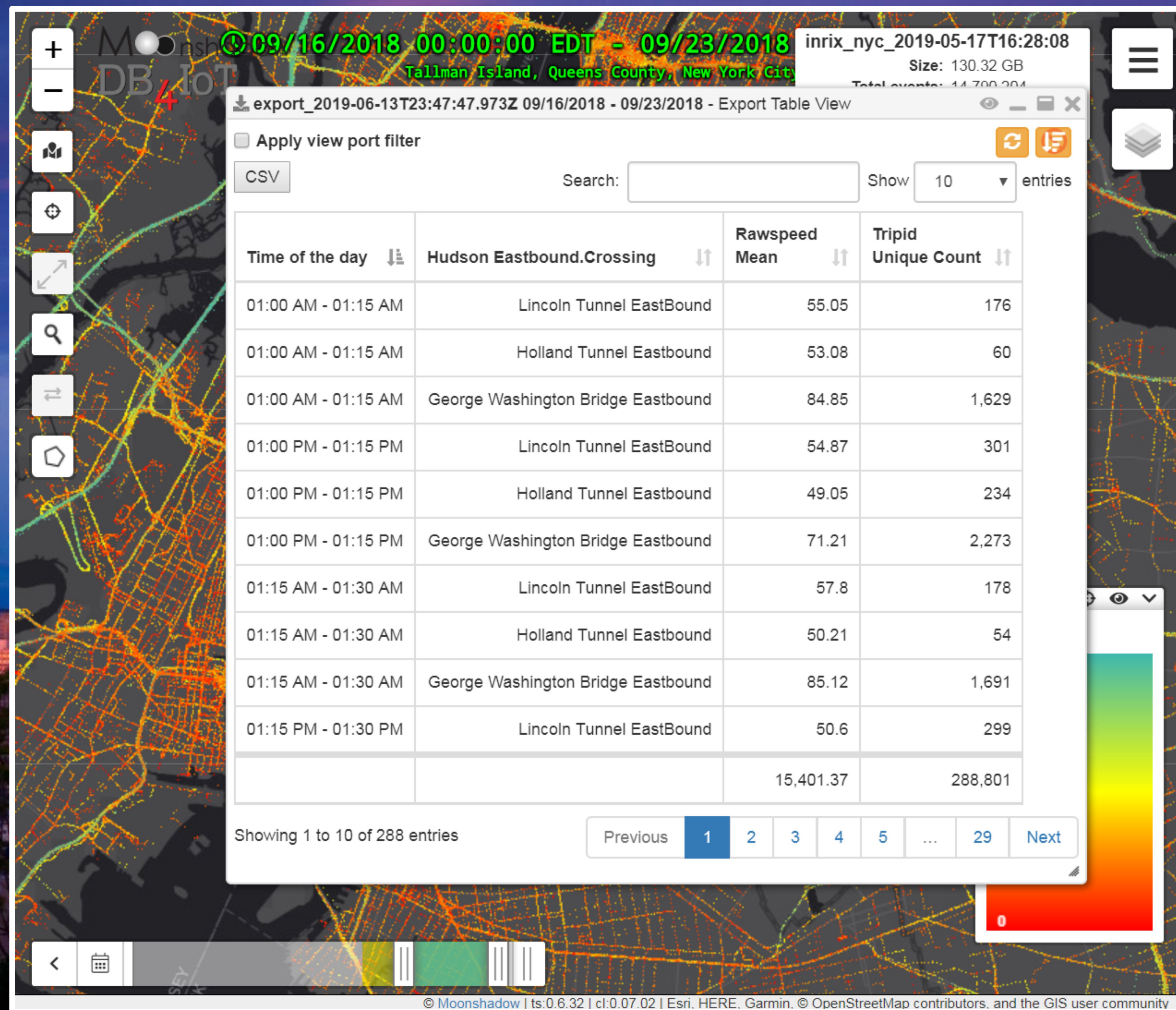
DB₄IoT

Show Hudson Crossings Filter Network as Roads



DB4IoT

Show Traffic Distribution by Time of Day



DB₄IoT

Create Filter Network for Hudson & East River Crossings

The screenshot displays the DB₄IoT web application interface. The main map area shows a satellite view of the Hudson River and East River crossings. A 'Build Network' dialog is open, showing a network diagram with 'Manhattan' as the central node. Arrows point from 'Manhattan' to various crossings: George Washington Bridge Eastbound, Lincoln Tunnel Eastbound, Holland Tunnel Eastbound, Ed Koch Bridge Eastbound, Williamsburg Bridge Eastbound, Manhattan Bridge Eastbound, and Brooklyn Bridge Eastbound. A 'Filter Node Options' dialog is also open, showing details for the 'Brooklyn Bridge Eastbound' node.

Build Network Dialog:

- name: NJ to Queens
- column_id: tripid

Filter Node Options Dialog:

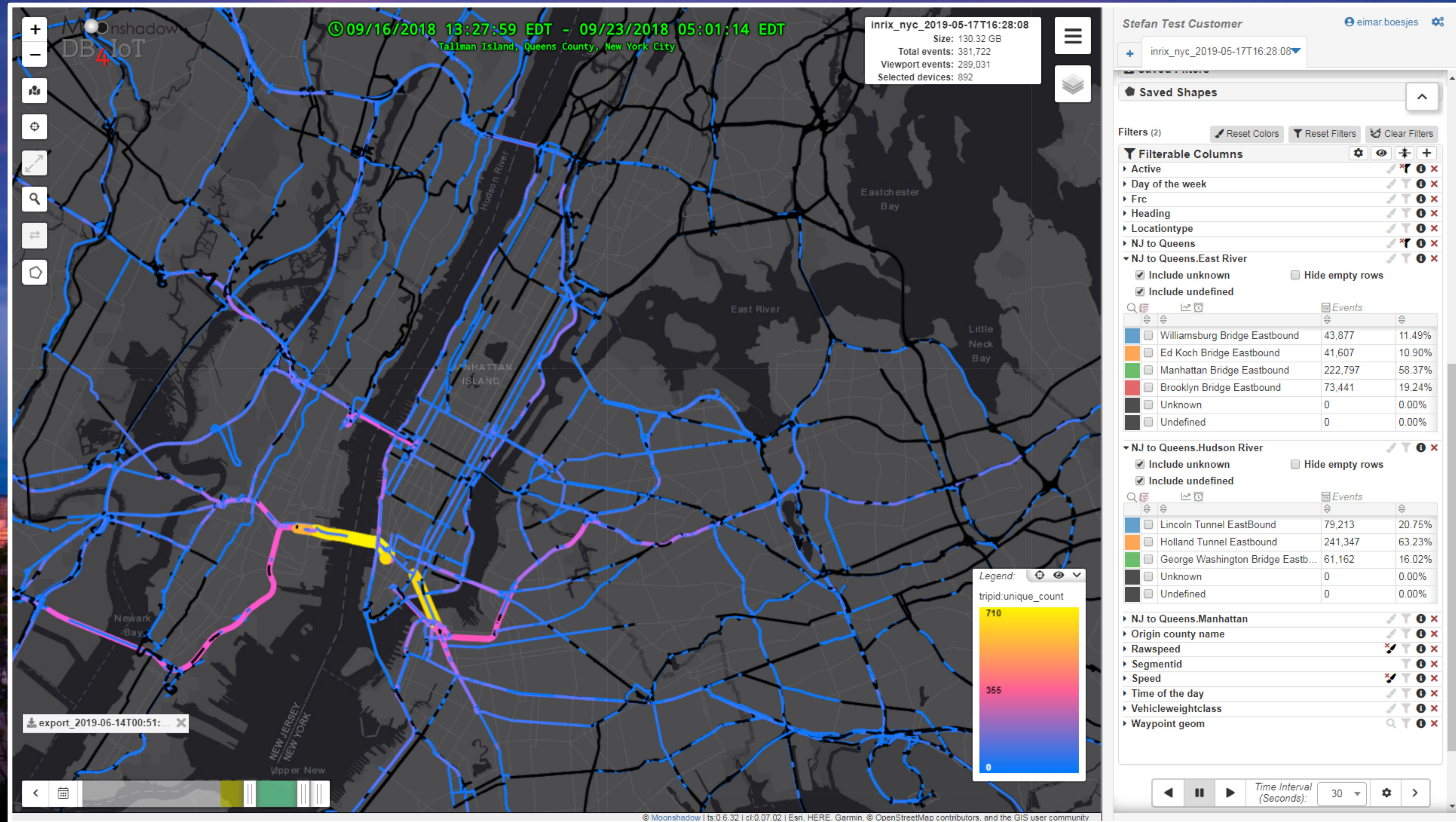
- name: Brooklyn Bridge Eastbound
- column_id: East River
- value: Brooklyn Bridge Eastbound

Filter Networks Sidebar:

- Stefan Test Customer
- inrix_nyc_2019-05-17T16:28:08
- Filter Networks: Select filter network, Load, Edit, Delete
- Analysis Tools: Traffic Analysis Tools, General Analysis Tools
- Map Views: O/D Matrix Layer, Select Link Analysis
- Color By (label): None
- Line Width: None
- Opacity: None
- Color By Threshold: -1
- Points
- Filter Tools: Saved Filters
- Apply/Replace Saved Filter: Filter, Brooklyn Bridge Eastbound, Apply Filter, Replace Filter, Export Filter, Delete Filter
- Save Current Filter Selection: Name, Save Filter
- Time Interval (Seconds): 30

DB₄IoT

Apply Hudson & East River Crossing Filters



Generate Path Tables by Vehicle Weight Class

export_2019-06-14T00:51:14.506Z 09/20/2018 - 09/23/2018 - Export Table View
inrix_nyc_2019-05-17T16:28:08
Size: 130.32 GB
Stefan Test Customer

☐ Apply view port filter

Search: Show 10 entries

NJ to Queens.Hudson River ↑↓	NJ to Queens.East River ↑↓	Speed Mean ↑↓	Tripid Unique Count ↓↑	Vehicleweightclass ↑↓
Holland Tunnel Eastbound	Manhattan Bridge Eastbound	36.77	123	Medium Duty Trucks / Vans: ranges from 14001-26000 lb.
Holland Tunnel Eastbound	Manhattan Bridge Eastbound	33.94	87	Light Duty Truck/Passenger Vehicle: Ranges from 0 to 14000 lb.
Lincoln Tunnel EastBound	Manhattan Bridge Eastbound	40.11	38	Medium Duty Trucks / Vans: ranges from 14001-26000 lb.
Holland Tunnel Eastbound	Brooklyn Bridge Eastbound	35.1	36	Light Duty Truck/Passenger Vehicle: Ranges from 0 to 14000 lb.
George Washington Bridge Eastbound	Brooklyn Bridge Eastbound	41.54	23	Light Duty Truck/Passenger Vehicle: Ranges from 0 to 14000 lb.
Holland Tunnel Eastbound	Williamsburg Bridge Eastbound	30.27	16	Light Duty Truck/Passenger Vehicle: Ranges from 0 to 14000 lb.
Holland Tunnel Eastbound	Williamsburg Bridge Eastbound	24.63	14	Medium Duty Trucks / Vans: ranges from 14001-26000 lb.
Holland Tunnel Eastbound	Brooklyn Bridge Eastbound	25.7	12	Medium Duty Trucks / Vans: ranges from 14001-26000 lb.
Lincoln Tunnel EastBound	Ed Koch Bridge Eastbound	41.76	11	Medium Duty Trucks / Vans: ranges from 14001-26000 lb.
George Washington Bridge Eastbound	Manhattan Bridge Eastbound	32.06	10	Light Duty Truck/Passenger Vehicle: Ranges from 0 to 14000 lb.
		784.13	403	

Showing 1 to 10 of 24 entries

[Previous](#)
1
2
3
[Next](#)

DB₄IoT

Example 3: Freeway O/D Matrices in Clark County, WA

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Set Filters for Entrances and Exits on I5 Southbound

The screenshot displays the DB4IoT web application interface. The main map area shows an aerial view of Vancouver with a yellow highlighted path on I5 Southbound. The path starts at the intersection of I5 and 40th Street, goes south, and then loops back north. A text overlay on the map reads: "DB4IoT with INRIX Trip Reports & Trip Paths" and "East 40th Street, Officers Row, Vancouver". A data popup for "inrix_clark_county_traj_2019-03-22T..." shows: Size: 169.45 GB, Total events: 625, Viewport events: 24, and Selected devices: 431. The sidebar on the right contains the following sections:

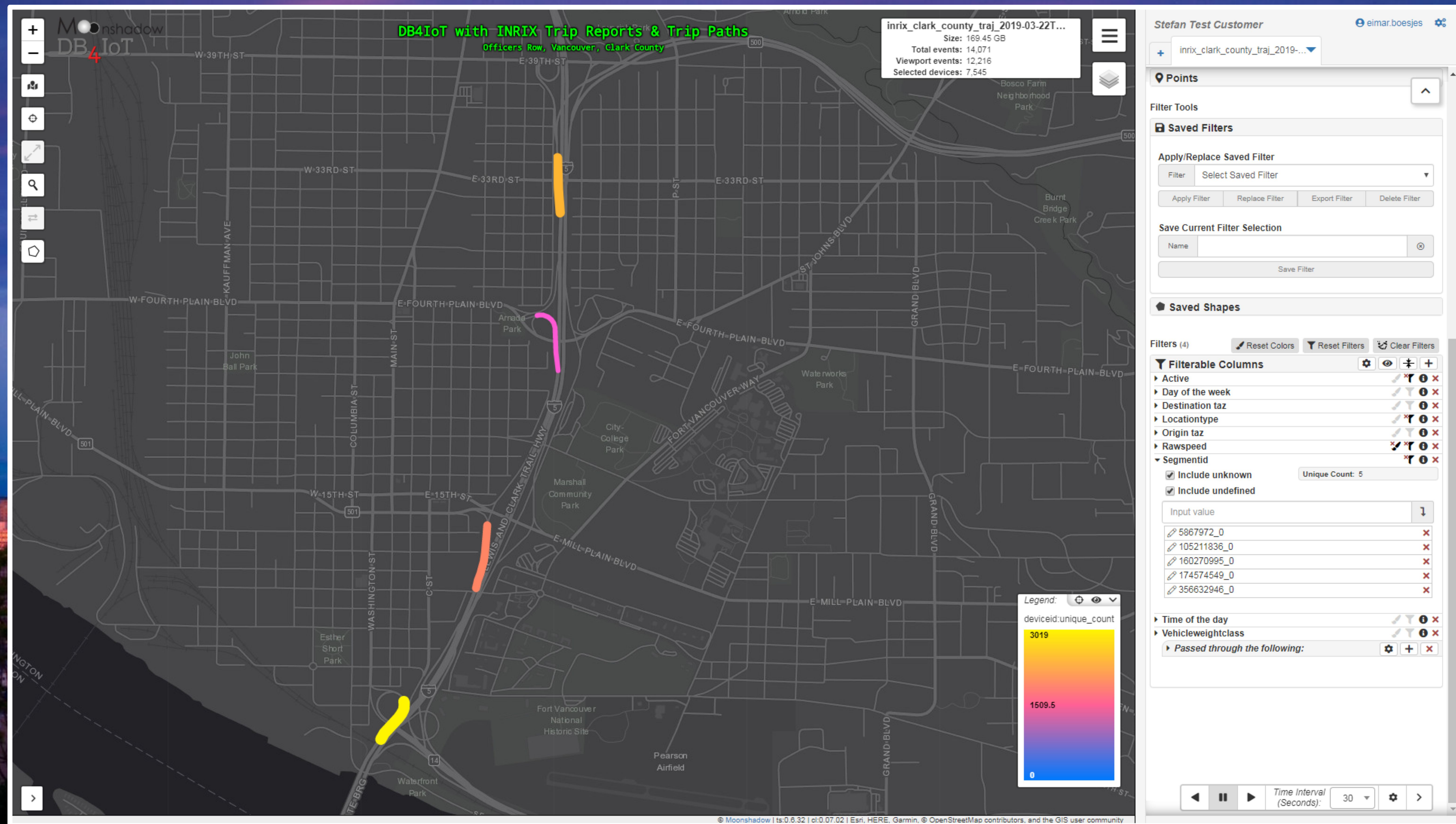
- Stefan Test Customer** (eimar.boesjes)
- Filter dropdown: inrix_clark_county_traj_2019-...
- Color By Threshold: 0
- Points
- Filter Tools
- Saved Filters**
 - Apply/Replace Saved Filter: 177 I5 SB 39th St/SR500 Exit
 - Buttons: Apply Filter, Replace Filter, Export Filter, Delete Filter
 - Save Current Filter Selection: Name, Save Filter
- Saved Shapes**
- Filters (4): Reset Colors, Reset Filters, Clear Filters
- Filterable Columns**
 - Active: [icon] [icon] [icon]
 - Day of the week: [icon] [icon] [icon]
 - Destination taz: [icon] [icon] [icon]
 - Locationtype: [icon] [icon] [icon]
 - Origin taz: [icon] [icon] [icon]
 - Rawspeed: [icon] [icon] [icon]
 - Segmentid: [icon] [icon] [icon]
 - Include unknown: [checked] Unique Count: 1
 - Include undefined: [checked]
 - Input value: 1
 - 5867931_0: [icon]
 - Time of the day: [icon] [icon] [icon]
 - Vehicleweightclass: [icon] [icon] [icon]
- Time Interval (Seconds): 30

Legend: deviceid:unique_count
431
215.5
0

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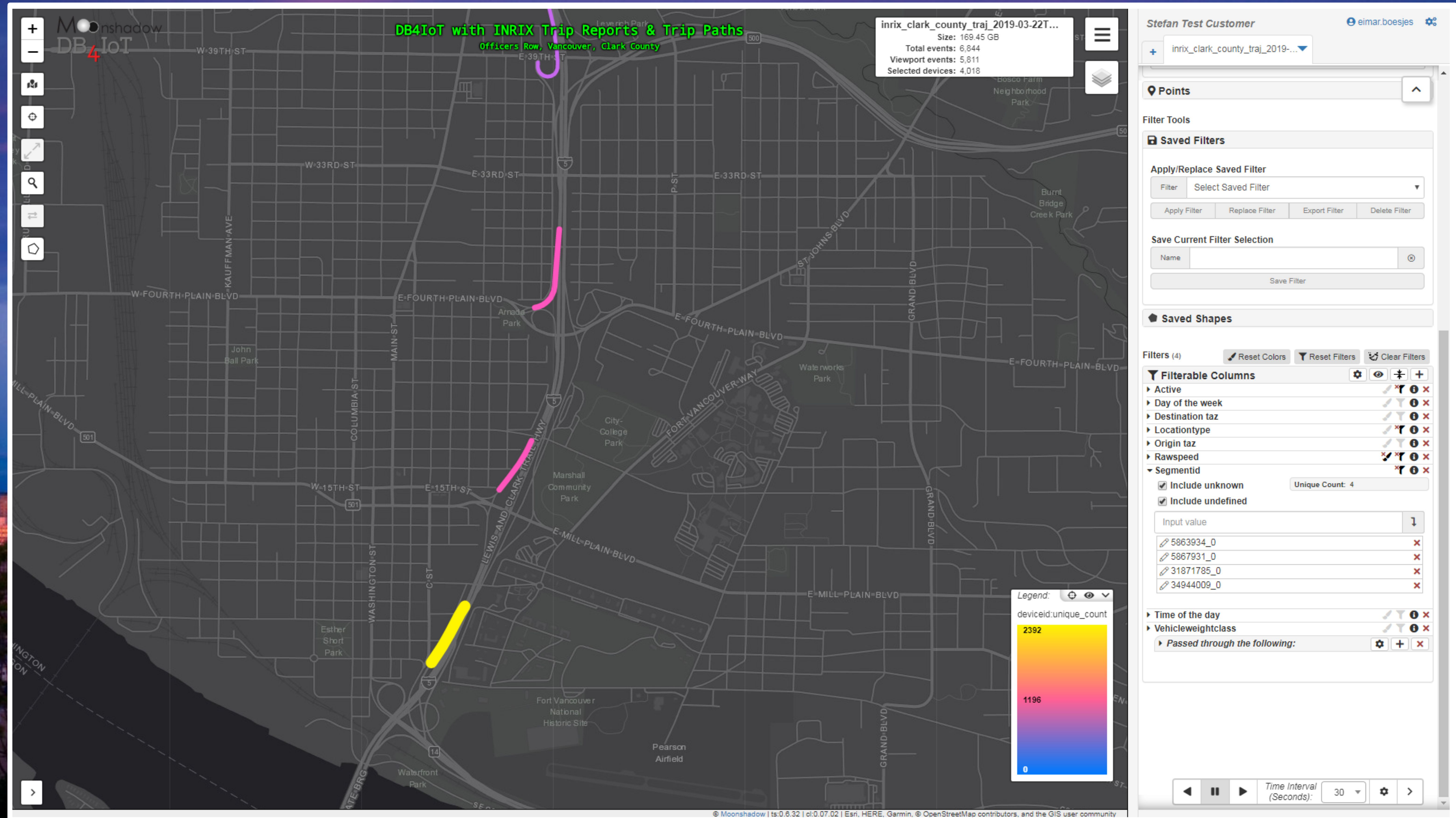
DB4IoT

15 Southbound Entrance Filters



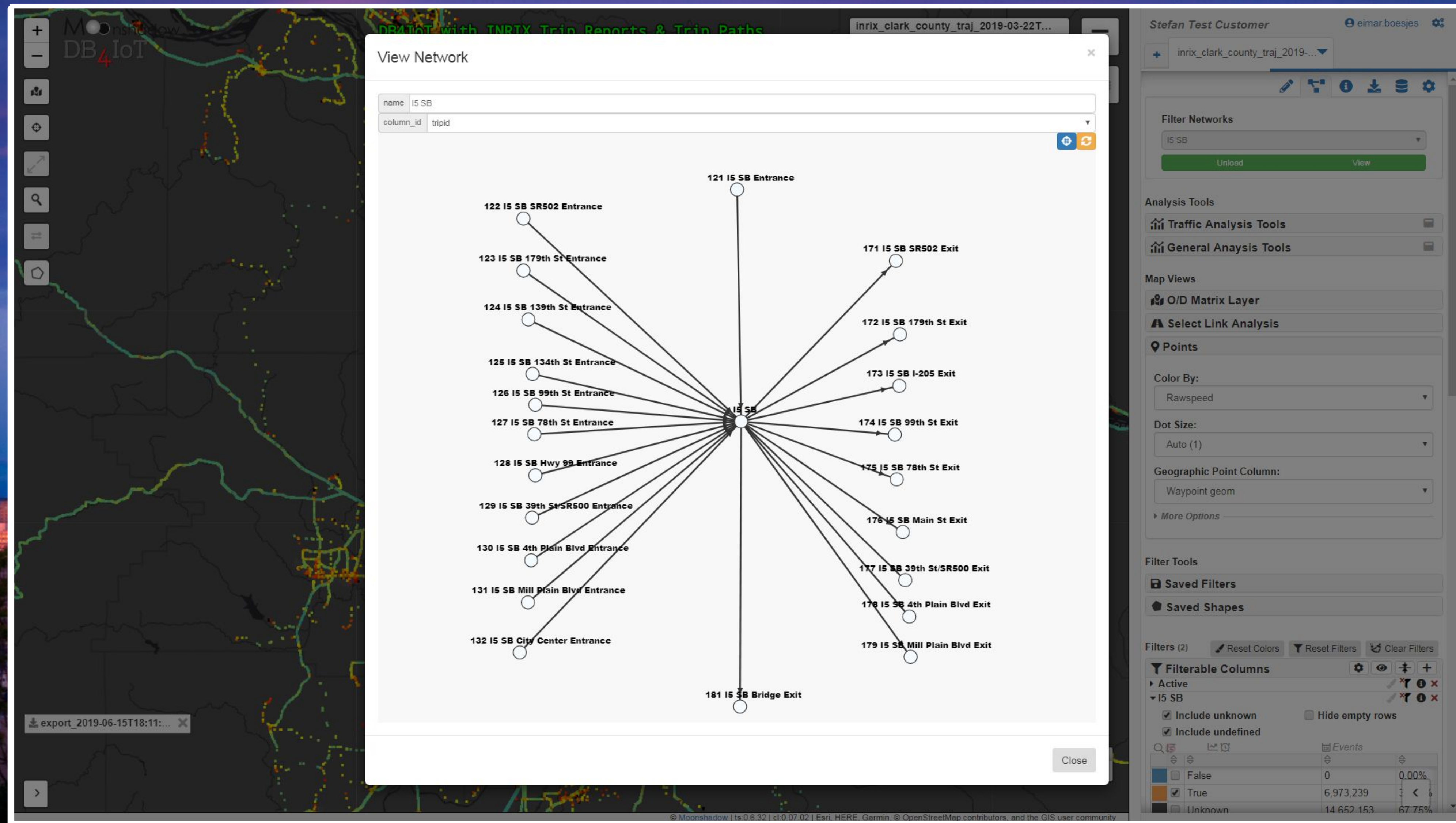
DB₄IoT

15 Southbound Exit Filters



DB₄IoT

Create On-Ramp to Off-Ramp Filter Network for I5 Southbound



Load I5 Southbound Freeway Filter Network

Freeway Entrances and Exits Become Selectors in the Side Panel

▼ I5 SB.Entrance

☒ Include unknown ☐ Hide empty rows

☒ Include undefined

🔍 📅 🕒

Measurements

<input type="checkbox"/>	121 I5 SB Entrance	17,142,975	79.27%
<input type="checkbox"/>	122 I5 SB SR502 Entrance	304,052	1.41%
<input type="checkbox"/>	123 I5 SB 179th St Entrance	222,937	1.03%
<input type="checkbox"/>	124 I5 SB 139th St Entrance	135,969	0.63%
<input type="checkbox"/>	125 I5 SB 134th St Entrance	179,170	0.83%
<input type="checkbox"/>	126 I5 SB 99th St Entrance	279,790	1.29%
<input type="checkbox"/>	127 I5 SB 78th St Entrance	537,043	2.48%
<input type="checkbox"/>	128 I5 SB Hwy 99 Entrance	161,363	0.75%
<input type="checkbox"/>	129 I5 SB 39th St/SR500 Entrance	905,348	4.19%
<input type="checkbox"/>	130 I5 SB 4th Plain Blvd Entrance	223,755	1.03%
<input type="checkbox"/>	131 I5 SB Mill Plain Blvd Entrance	490,828	2.27%
<input type="checkbox"/>	132 I5 SB City Center Entrance	1,042,168	4.82%
<input type="checkbox"/>	Undefined	0	0.00%
<input type="checkbox"/>	Unknown	197,740	0.91%

▼ I5 SB.Exit

☒ Include unknown ☐ Hide empty rows

☒ Include undefined

🔍 📅 🕒

Measurements

<input type="checkbox"/>	171 I5 SB SR502 Exit	763	0.00%
<input type="checkbox"/>	172 I5 SB 179th St Exit	84,517	0.39%
<input type="checkbox"/>	173 I5 SB I-205 Exit	6,774,958	31.33%
<input type="checkbox"/>	174 I5 SB 99th St Exit	156,365	0.72%
<input type="checkbox"/>	175 I5 SB 78th St Exit	275,572	1.27%
<input type="checkbox"/>	176 I5 SB Main St Exit	133,633	0.62%
<input type="checkbox"/>	177 I5 SB 39th St/SR500 Exit	129,651	0.60%
<input type="checkbox"/>	178 I5 SB 4th Plain Blvd Exit	259,927	1.20%
<input type="checkbox"/>	179 I5 SB Mill Plain Blvd Exit	265,682	1.23%
<input type="checkbox"/>	181 I5 SB Bridge Exit	13,544,330	62.63%
<input type="checkbox"/>	Undefined	0	0.00%
<input type="checkbox"/>	Unknown	197,740	0.91%

DB₄IoT

Generate Freeway O/D Matrix from Entrance to Exit

DB4IoT with INRIX Trip Reports

inrix_clark_county_traj_2019-03-22T...
Size: 169.45 GB
Total events: 21,625,392

export_2019-06-15T18:11:47.984Z 09/01/2018 - 12/31/2018 - Export Table View

☐ Apply view port filter ☒ Show Percentages

CSV Search: Show 10 entries

I5 SB.Entrance	I5 SB.Exit	Tripid Unique Count	Tripid Unique Count Percent total
121 I5 SB Entrance	181 I5 SB Bridge Exit	59,162	~31%
121 I5 SB Entrance	173 I5 SB I-205 Exit	51,055	~27%
132 I5 SB City Center Entrance	181 I5 SB Bridge Exit	19,504	~10%
129 I5 SB 39th St/SR500 Entrance	181 I5 SB Bridge Exit	10,111	~5%
131 I5 SB Mill Plain Blvd Entrance	181 I5 SB Bridge Exit	6,722	~4%
127 I5 SB 78th St Entrance	181 I5 SB Bridge Exit	5,543	~3%
130 I5 SB 4th Plain Blvd Entrance	181 I5 SB Bridge Exit	3,827	~2%
123 I5 SB 179th St Entrance	173 I5 SB I-205 Exit	2,444	~1%
126 I5 SB 99th St Entrance	181 I5 SB Bridge Exit	2,353	~1%
128 I5 SB Hwy 99 Entrance	181 I5 SB Bridge Exit	1,977	~1%
		187,948	100%

Showing 1 to 10 of 70 entries

Previous 1 2 3 4 5 6 7 Next

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inrix_clark_county_traj_2019-...

Waypoint geom

More Options

Filter Tools

Saved Filters

Saved Shapes

Filters (2) Reset Colors Reset Filters Clear Filters

Filterable Columns

Active

I5 SB

☒ Include unknown ☐ Hide empty rows

☒ Include undefined

	Events
<input type="checkbox"/> False	0 0.00%
<input checked="" type="checkbox"/> True	6,973,239 32.25%
<input type="checkbox"/> Unknown	14,652,153 67.75%
<input type="checkbox"/> Undefined	0 0.00%

I5 SB.Entrance

☒ Include unknown ☐ Hide empty rows

☒ Include undefined

	Measurements
<input type="checkbox"/> 121 I5 SB Entrance	17,142,975 79.27%
<input type="checkbox"/> 122 I5 SB SR502 Entrance	304,052 1.41%
<input type="checkbox"/> 123 I5 SB 179th St Entrance	222,937 1.03%
<input type="checkbox"/> 124 I5 SB 139th St Entrance	135,969 0.63%
<input type="checkbox"/> 125 I5 SB 124th St Entrance	179,170 0.93%

DB₄IoT

Define Freeway Avoidance Filter Network from Exit to Entrance

The screenshot displays the DB₄IoT web application interface. A central 'View Network' dialog box shows a graph of freeway avoidance filters. The graph consists of two columns of nodes representing exits and entrances for I-5 SB. Lines connect the exits to the entrances, forming a dense network of avoidance paths.

View Network Dialog:

- name:** I5 SB Avoidance 2
- column_id:** tripid

Exit Nodes (Left):

- 171 I5 SB SR502 Exit
- 172 I5 SB 179th St Exit
- 173 I5 SB I-205 Exit
- 174 I5 SB 99th St Exit
- 175 I5 SB 78th St Exit
- 176 I5 SB Main St Exit
- 177 I5 SB 39th St/SR500 Exit
- 178 I5 SB 4th Plain Blvd Exit
- 179 I5 SB Mill Plain Blvd Exit

Entrance Nodes (Right):

- 122 I5 SB SR502 Entrance
- 123 I5 SB 179th St Entrance
- 124 I5 SB 139th St Entrance
- 125 I5 SB 134th St Entrance
- 126 I5 SB 99th St Entrance
- 127 I5 SB 78th St Entrance
- 128 I5 SB Hwy 99 Entrance
- 129 I5 SB 39th St/SR500 Entrance
- 130 I5 SB 4th Plain Blvd Entrance
- 131 I5 SB Mill Plain Blvd Entrance
- 132 I5 SB City Center Entrance

Background Interface:

- Map:** A map of the San Francisco area with a red line indicating the freeway path.
- Filter Networks:** A dropdown menu showing 'I5 SB Avoidance 2' with 'Unload' and 'View' buttons.
- Analysis Tools:** A sidebar with 'Traffic Analysis Tools' and 'General Analysis Tools'.
- Map Views:** A sidebar with 'O/D Matrix Layer' and 'Select Link Analysis'.
- Points:** A sidebar with 'Color By' (Rawspeed), 'Dot Size' (Auto (1)), and 'Geographic Point Column' (Waypoint geom).
- Filter Tools:** A sidebar with 'Saved Filters' and 'Saved Shapes'.
- Filters (2):** A sidebar with 'Reset Colors', 'Reset Filters', and 'Clear Filters' buttons.
- Filterable Columns:** A sidebar with 'Active' and 'I5 SB Avoidance 2' columns. The 'I5 SB Avoidance 2' column is expanded, showing 'Include unknown' and 'Include undefined' checkboxes.
- Table:** A table with columns for 'Events' and 'Measurements'. The 'Events' column has a value of 68,498 and the 'Measurements' column has a value of 220,033.

Generate Freeway Avoidance O/D Matrix from Exit to Entrance

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DB₄IoT

“Here at the SW Washington Regional Transportation Council (RTC), we are responsible for dealing with regional transportation planning for the Vancouver, WA metropolitan area. We’ve been working with DKS Associates for a number of years, and are very excited about the valuable and innovative tool they have built in partnership with Moonshadow Mobile using INRIX Connected Vehicle data. The dynamic Origin and Destination analysis tools allow us to easily ask questions around regional trip distribution, complex trip corridor patterns, and diversion on local streets. The dashboard approach to data analytics allows us to ask questions on the fly, in a workshop setting, and to answer new questions as they come up.”

Bob Hart, Project Manager, RTC

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DKS

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