

INRIX 2018 Global Traffic Scorecard

The most in-depth congestion and mobility study of its kind.
We analyzed and ranked the impact of traffic congestion in:

6 continents | 38 countries | 200+ cities

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Welcome to the INRIX Global Traffic Scorecard

The INRIX 2018 Global Traffic Scorecard is an analysis of congestion and mobility trends in more than 200 cities, across 38 countries. A new methodology for the 2018 Global Traffic Scorecard allows for cross-national



Previous Scorecard Metrics

Metric	Definition	Weight	Rationale
Peak In/Out	% in congestion during week days on highways in Peak Time	2.5	Affects large amount of people, often with no alternative routes
Peak within	% in congestion during week days on all other roads in Peak Time	2.2	Affects large amount of people, but alternative routes may be available
Day In/Out	% in congestion during week days on highways at Mid-Day	1.7	Impact businesses/non workers, often with no alternative routes
Week end	% in congestion during week end	0.9	Affects week end workers, leisure time for most of the people.
Day within	% in congestion during week days on highways at Mid-Day	1.3	Impact businesses/non workers but alternative routes may be available
Late In/Out	% in congestion evening/late evening during weekdays on highways	0.6	Expected to affect the least of the people
Late within	% in congestion evening/late evening during weekdays on all other roads	0.8	Affects night shift workers/leisure time during the week



New Scorecard Metrics

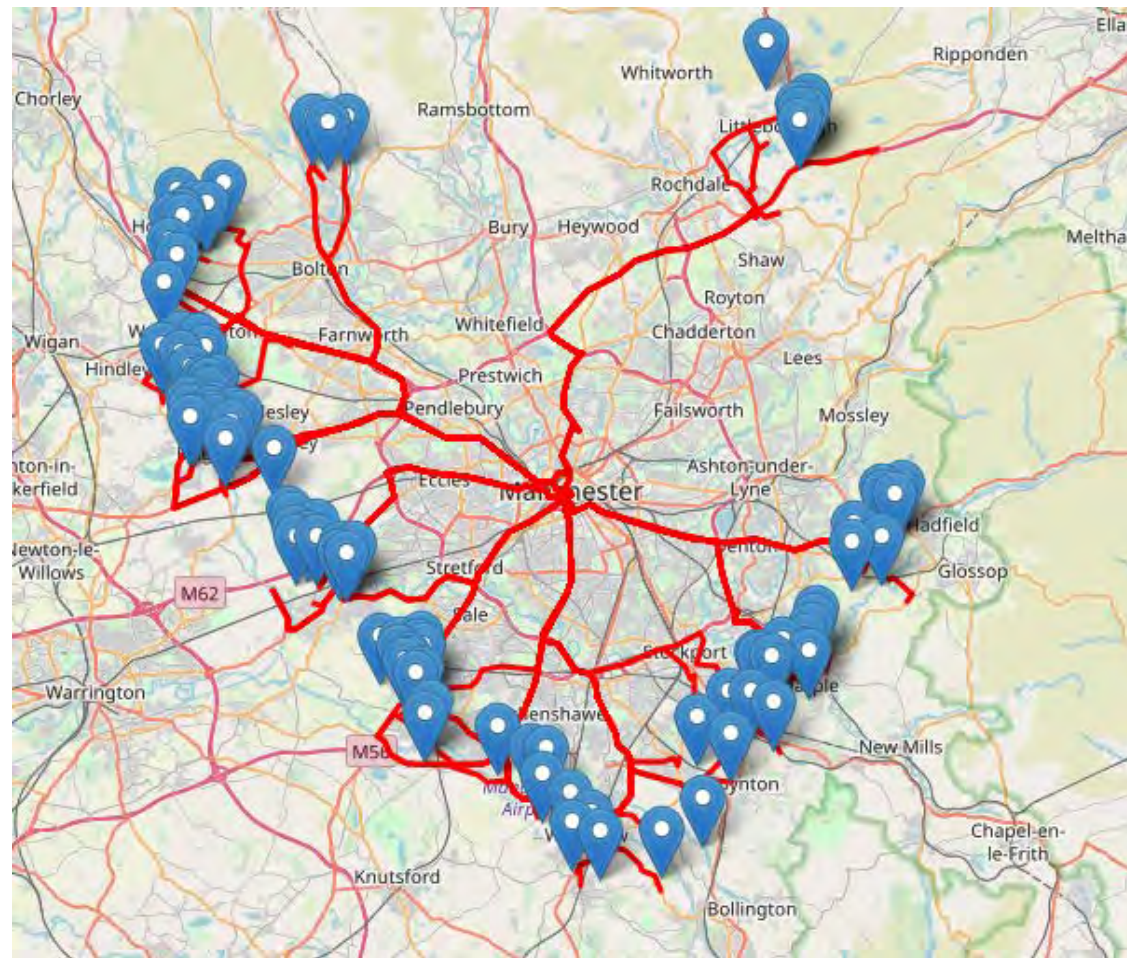
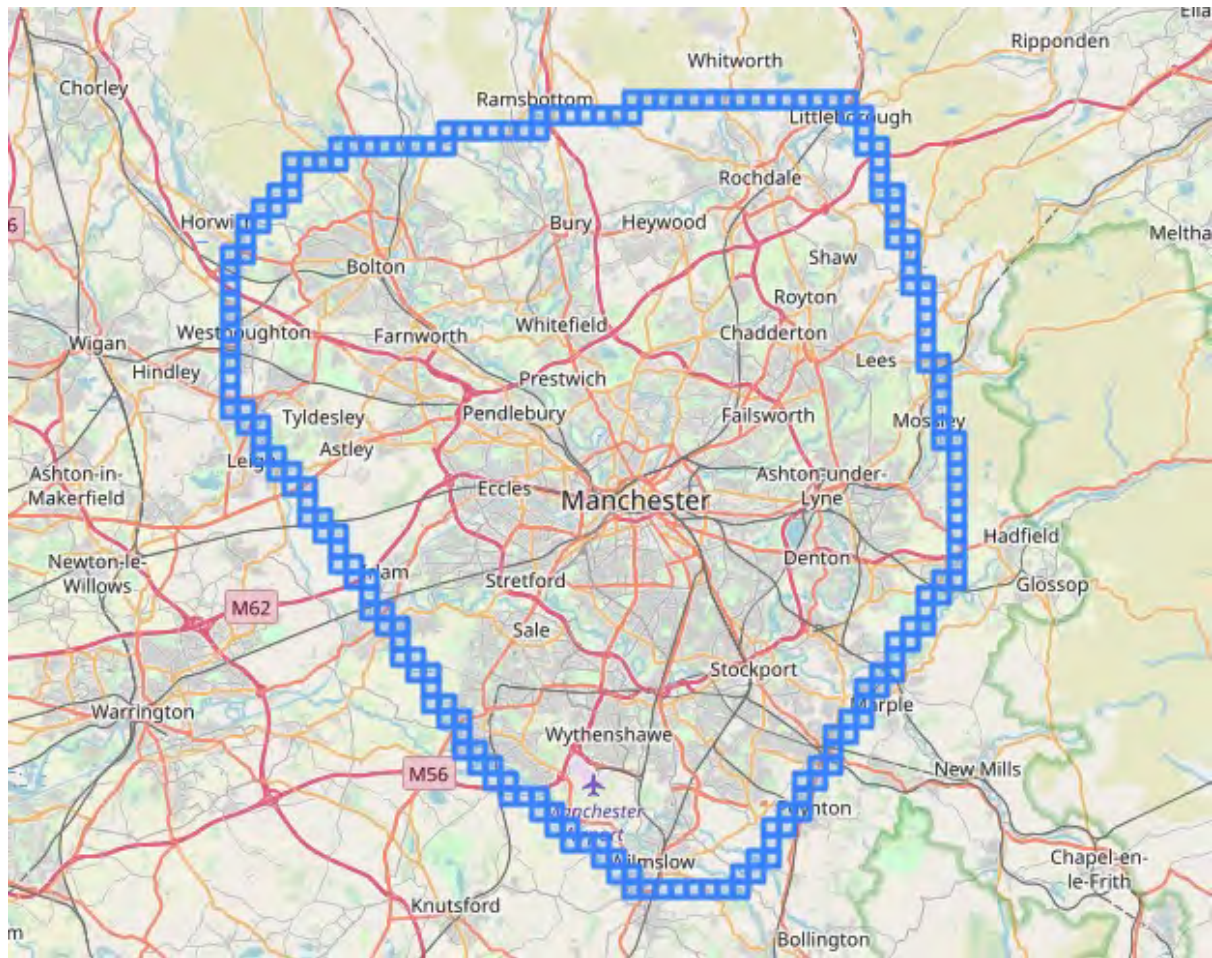
Metric	Definition	Rationale
Commute Speed/Travel Time	How long a typical commuter takes to travel into the city centre	Most relatable metric for consumers. Can also be transformed into cost.
Interpeak Speed/Travel Time	How long a commuters' journey would take during off-peak hours	To be used as a comparison for the first metric
Last Mile Speed/Travel Time	The average speed of commuters during the last mile of their drive	Traffic is typically worst and most memorable towards end of commute
Background Speed	Average speed on major roads in an urban area, across the day	Identify cities with constant background traffic





Methodology


Boundary Setting and Routing Identification



Interactive Ranking & City Dashboards











URBAN AREA	2018 IMPACT RANK (2017)	HOURS LOST IN CONGESTION	YEAR OVER YEAR CHANGE	COST OF CONGESTION (PER DRIVER)	INNER CITY TRAVEL TIME (MINUTES)	INNER CITY LAST MILE SPEED (MPH)
Moscow	1 (1)	210 (10)	-12%	-	5	11
Istanbul	2 (3)	157 (32)	6%	-	6	10
Bogota	3 (2)	272 (1)	-5%	-	8	7
Mexico City	4 (4)	218 (9)	3%	-	7	9
Sao Paulo	5 (5)	154 (39)	-1%	-	6	10
London	6 (6)	227 (6)	1%	£1,680	8	7
Rio de Janeiro	7 (8)	199 (13)	15%	-	5	13
Boston, MA	8 (7)	164 (25)	-10%	\$2,291	6	11
Saint Petersburg	9 (9)	200 (12)	-5%	-	6	11
Rome	10 (13)	254 (2)	16%	-	8	8
Ankara	11 (10)	128 (75)	-5%	-	5	12
Jeddah	12 (11)	174 (15)	11%	-	7	10

Interactive Dashboard – US Urban Areas

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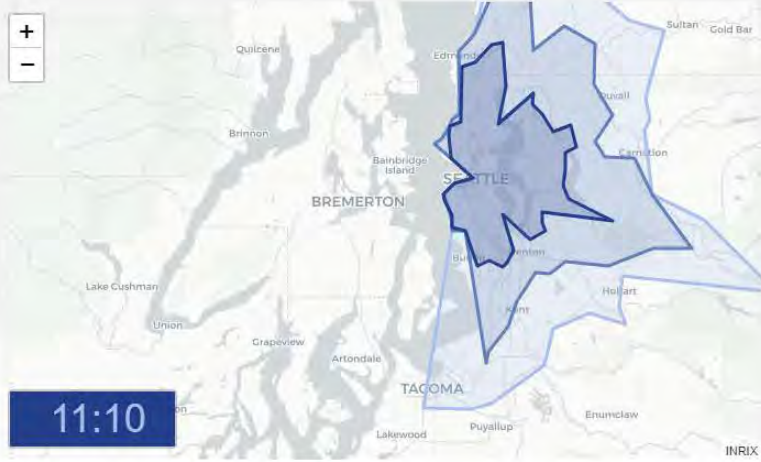
URBAN AREA	2018 IMPACT RANK (2017)	HOURS LOST IN CONGESTION	YEAR OVER YEAR CHANGE	COST OF CONGESTION (PER DRIVER)	INNER CITY TRAVEL TIME (MINUTES)	INNER CITY LAST MILE SPEED (MPH)
 Boston, MA	8 (7)	164 (25)	-10%	\$2,291	6	11
 Washington, DC	19 (20)	155 (36)	-3%	\$2,161	5	11
 Chicago, IL	23 (24)	138 (64)	4%	\$1,920	5	12
 New York City, NY	40 (43)	133 (70)	-4%	\$1,859	7	9
 Los Angeles, CA	47 (48)	128 (76)	0%	\$1,788	4	14
 Seattle, WA	58 (60)	138 (61)	0%	\$1,932	6	10
 Pittsburgh, PA	59 (56)	127 (77)	5%	\$1,776	5	13
 San Francisco, CA	65 (65)	116 (89)	-5%	\$1,624	6	10
 Philadelphia, PA	69 (67)	112 (95)	0%	\$1,568	6	10
 Portland, OR	70 (73)	116 (88)	-9%	\$1,625	5	13



City Dashboard

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INRIX

INRIX Drive Time visualizes commuting patterns by time of day. The animation indicates the distance a driver can travel from the city center outwards in 30 minutes, 45 minutes and 60 minutes.

Commute Time (mins)

■ 30 Minutes ■ 45 Minutes ■ 60 Minutes

Seattle, WA

 United States, North
America

58th
Most Congested
City in the World

6th in United States

138 Driving time spent
in congestion in
2018

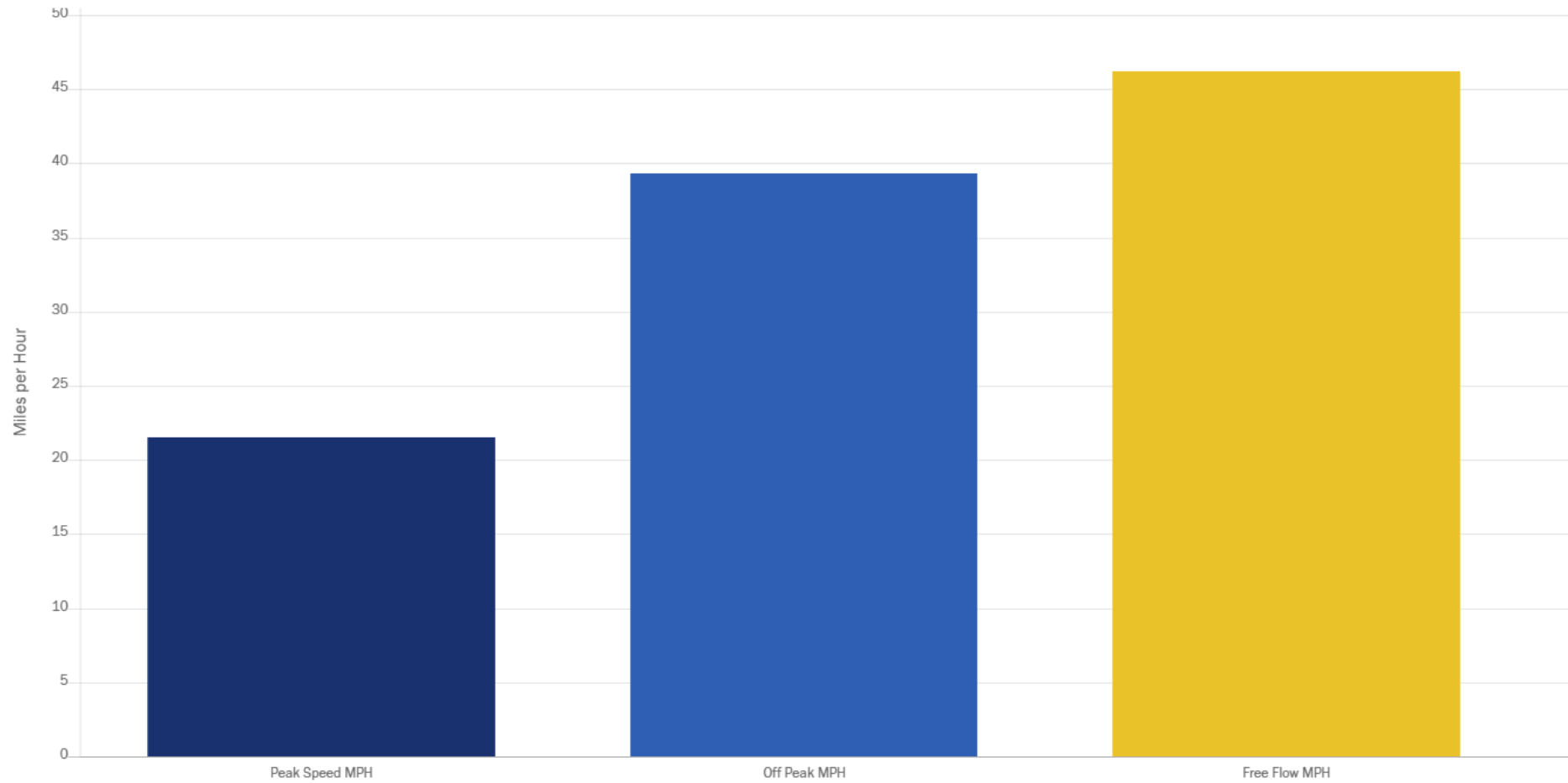
10 Inner city last mile
speed (mph)

\$1,932 Cost of congestion
per driver



Average Speeds

Time of Day Travel Speeds

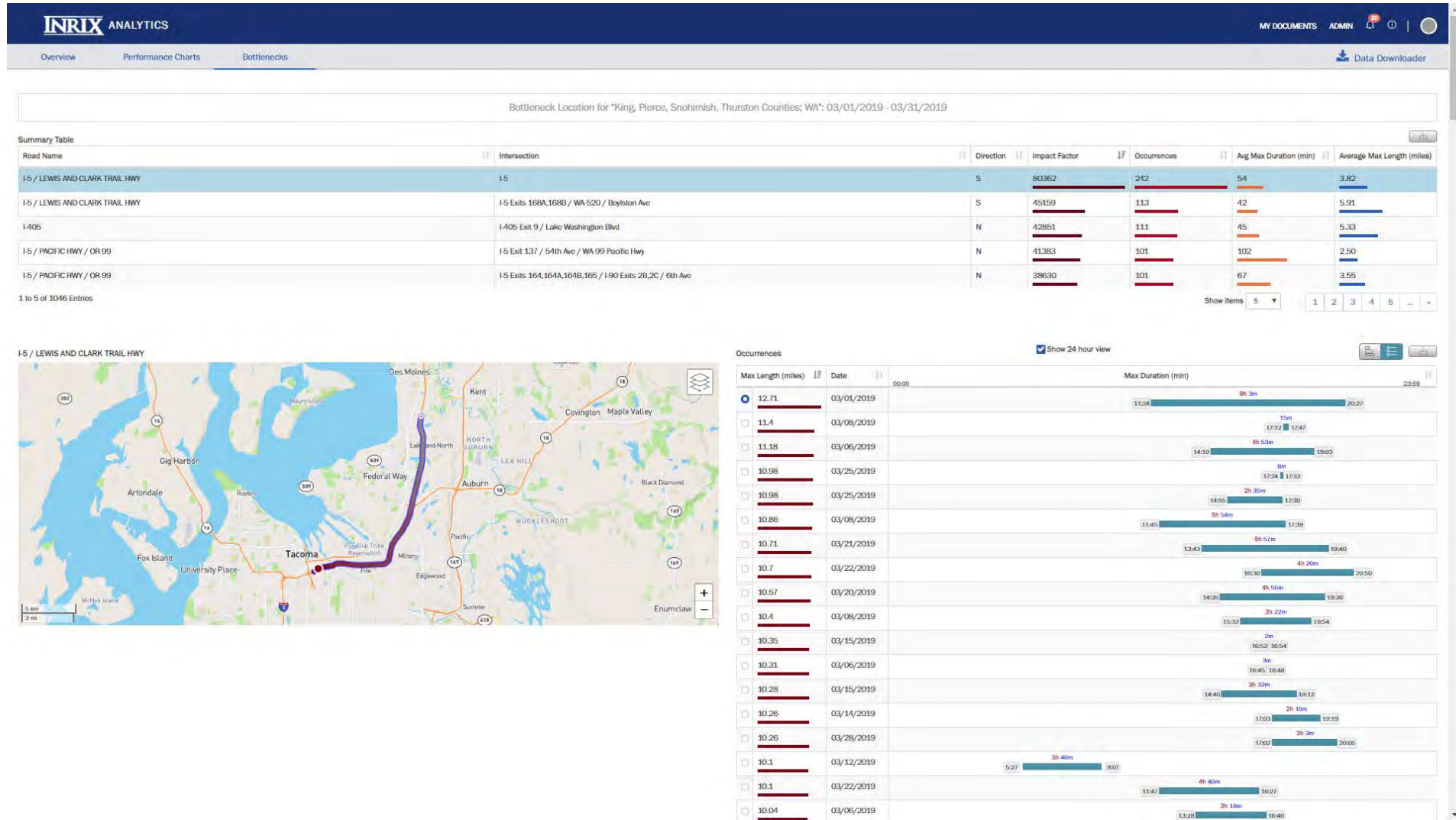


Findings

- A city's age is the best predictor of congestion due to the urban environment being suited to non-driving modes.
- Singapore is the only country globally that has 'beat traffic' due to its very aggressive traffic control policies including a massive excise tax on vehicle purchases and variable rate tolling.
- Multi-modal mobility is the goal in most major cities, not vehicle based level of service, how the most people can be moved most efficiently.
- Commute times are stable within countries, increasing proportional with city population
- The percent change in travel speeds between peak and inter-peak periods fall between 25% and 35% for America's major cities.



Interactive Analytics for Drill-Down



Thank You

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