



DASHBOARD CHALLENGE **TAZ TRANSIT EXPLORER**

→3/21/25



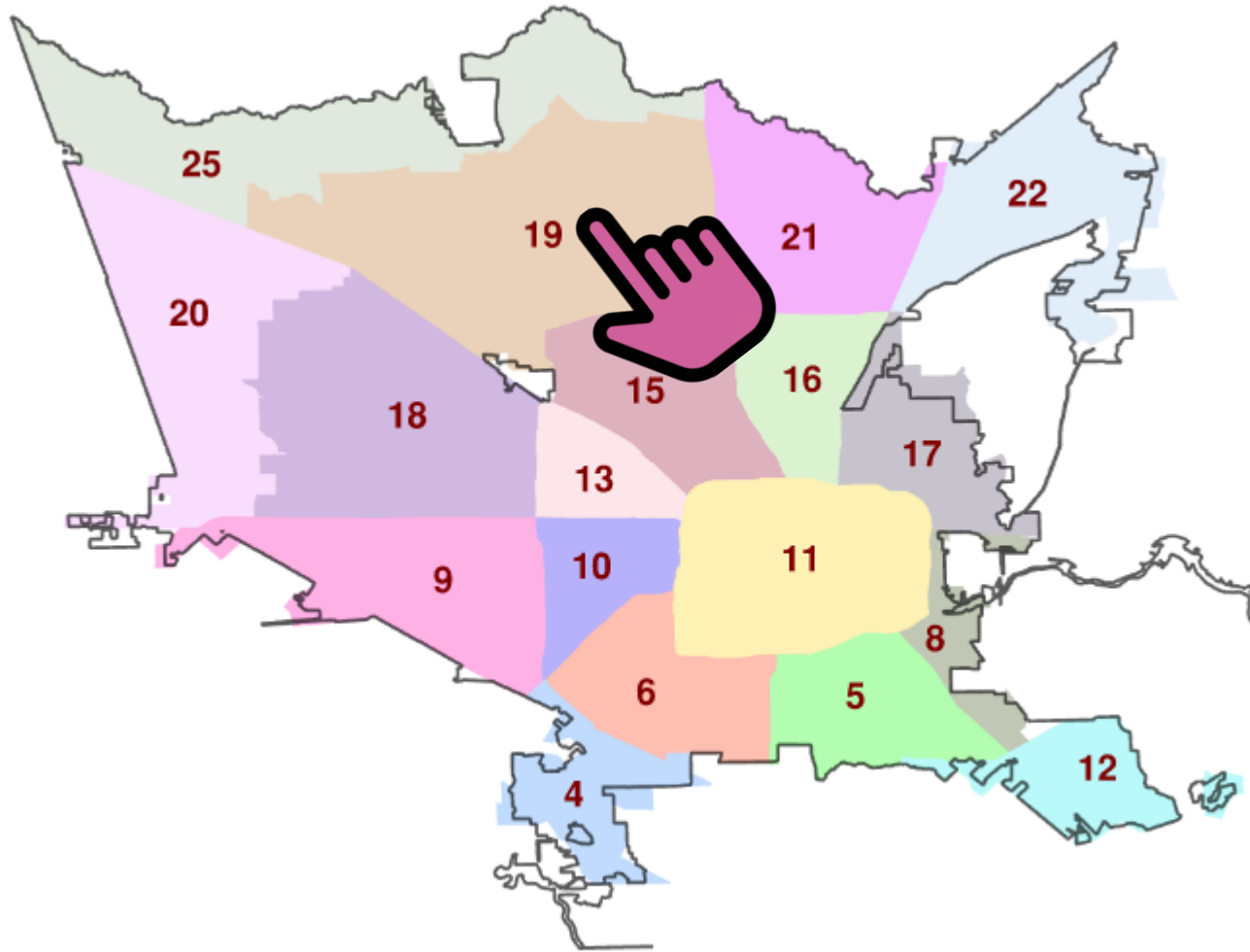
WHY

- Query information about riders by varied levels of aggregation
- Visualize the context behind Origin-Destination within Transit Service Area
- Link commuter information to regional mobility information

SKILLS/TECH STACK

- GIS, BI, python
- Database Management (csv,xlsx into sql)

SERVICE AREA BY HGAC 25 SECTORS



HGAC 25 Sectors is the largest level of aggregation under member county.

O-D Data is summarized by HGAC **25 Sectors and H3M hexagonal**

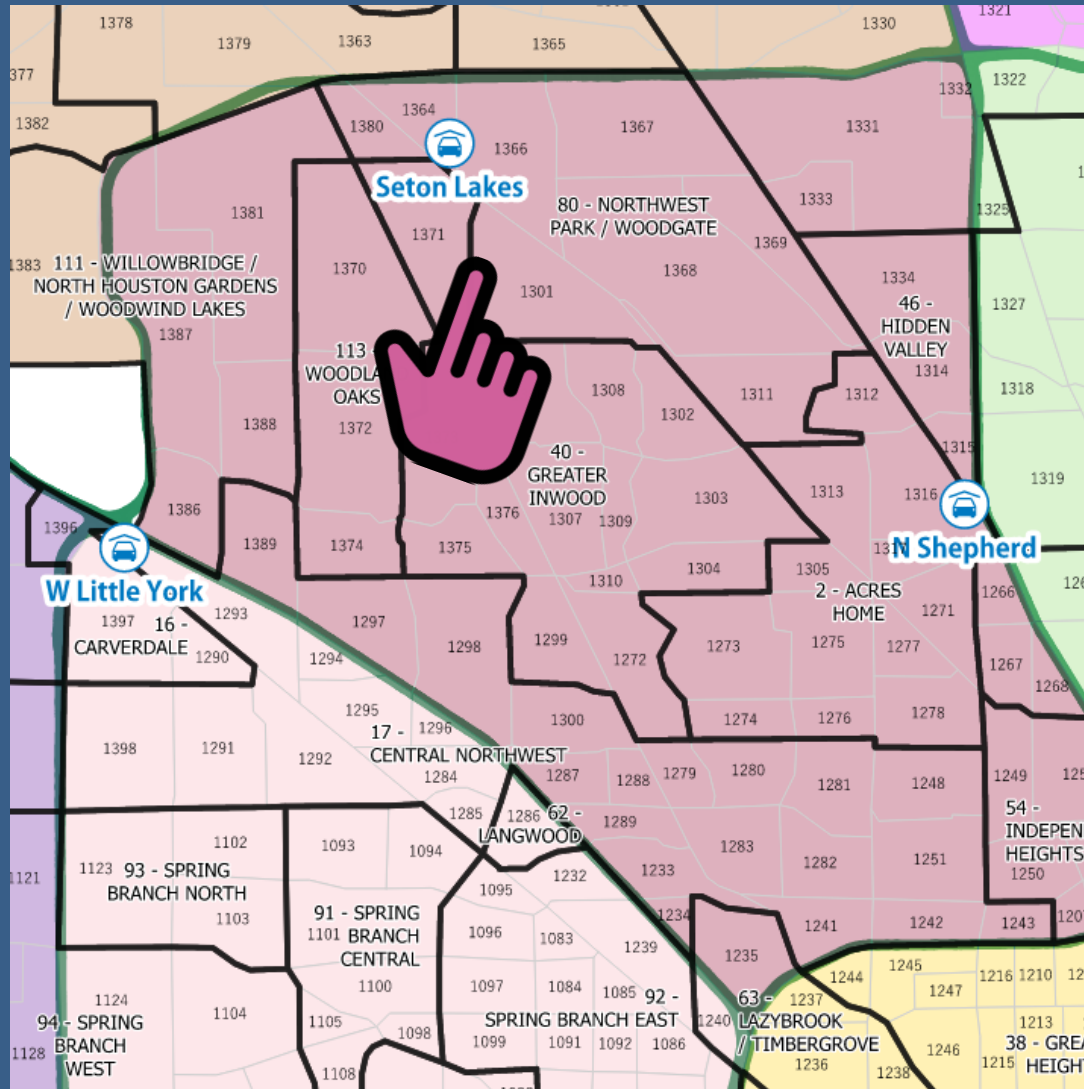
SELECT SECTOR

→ PnR Ridership

→ Demographic stats

→ DRILL DOWN

SERVICE BY METRO O-D ZONES



Zoom to

Jb cities: Universityville

NAME	Universityville
CRIME_INDE	0.02
POPULATION	46,700.00
UNIVERSITY	1.00
X	-77.55
Y	40.70
ID	30
TOTAL_CRIM	1,008.00


California Peaks: Split Mountain

Table Edit Get directions Zoom to

Split Mountain is a peak in California's Sierra Nevada range. It ranks **#10** among the California Fourteeners.

The summit is **14,064** feet high (4,287 meters) and has a prominence of **1,558** feet (475 meters).

[More info](#)



Click to view larger image

METRO Draft inspired by City of Houston's Super Neighborhoods, offers first time to use TAZ to generate a nested aggregation for Origin-Destination Zones. Based on the selected SECTOR, shows the most central Park And Ride.

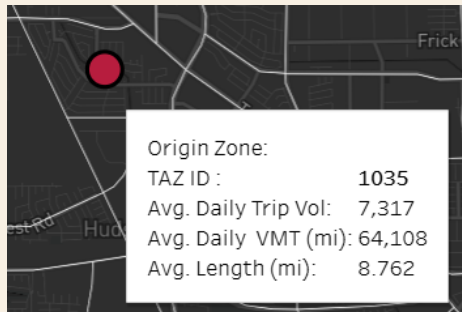
SELECT TAZ

→ Demographic stats

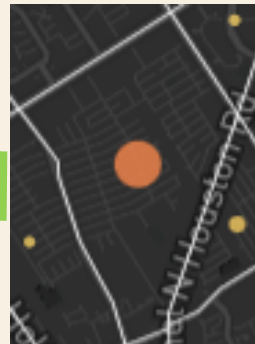
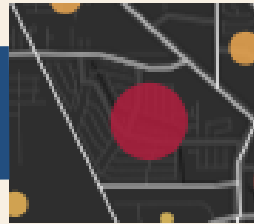
→ DRILL DOWN TO REPORT OPTIONS

We know that people that originate from the TAZ took the park and ride.
But based on O-D data, what are their top 3 TAZ destinations?

TOP 3 DESTINATIONS FOR TAZ



REPORT 2

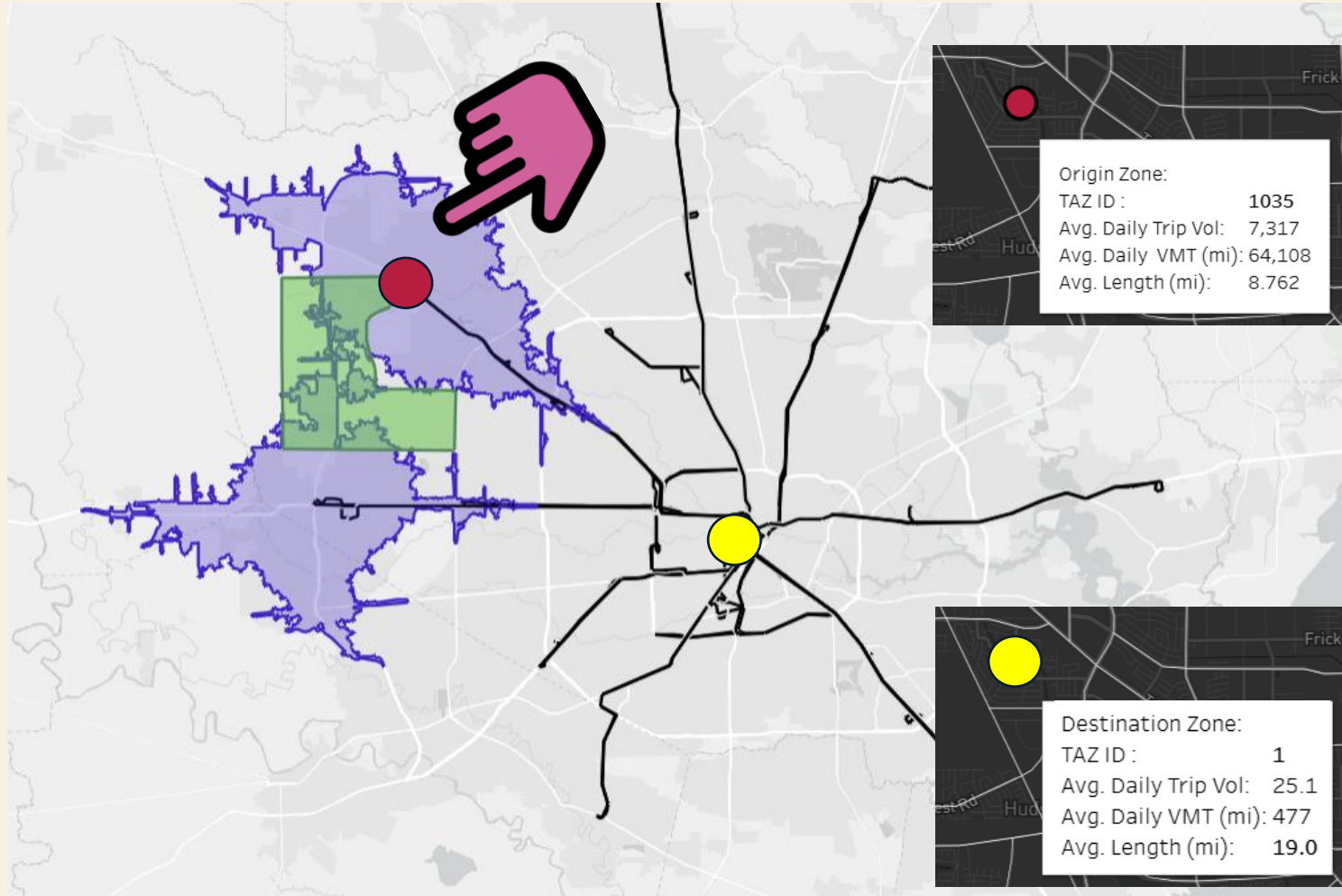


For Each top three

- Nearest PnR?
- Nearest Bus Stop?
- Major attractions?

How does the PnR Compare with single occupancy vehicles?

O-D ZONE DRIVESHED



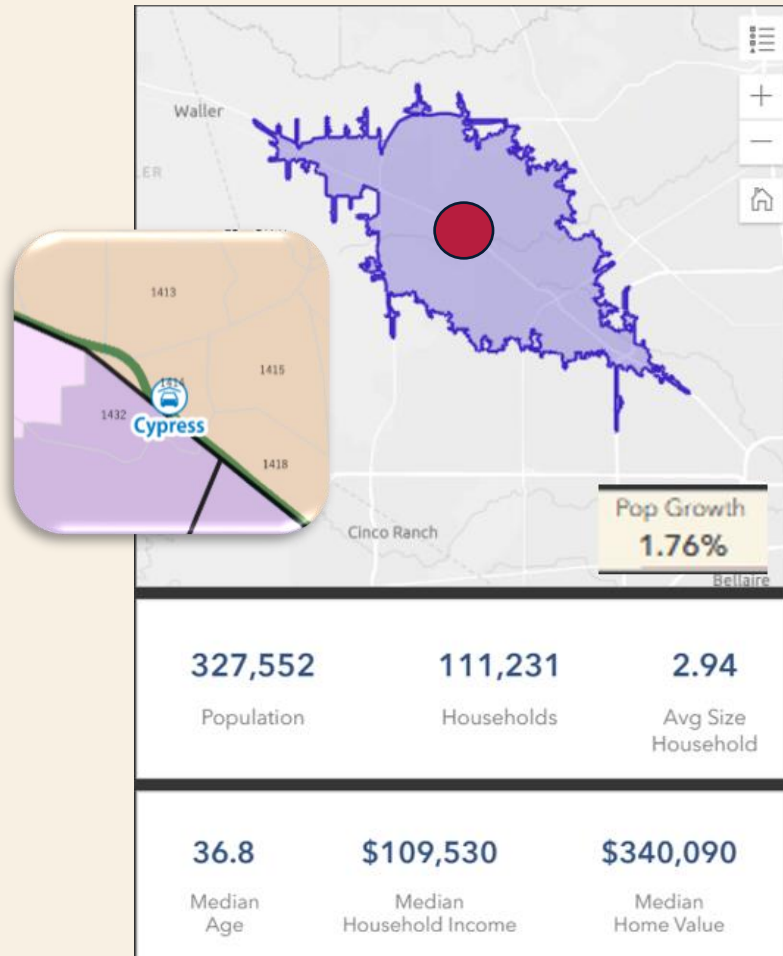
For selected taz

- Travel Time to PnR destination?
- Drivesheds using PnR travel time?
- Routes connecting?
- OTP for route?

REPORT 3

Can demographics inform untapped market for new riders?

O-D MARKET ANALYSIS



For the selected
driveshed, show
demographics within

→ % attributed to each
O-D Area

→ Ranking between PnR
along corridors?

→ See most comparable
PnR elsewhere in system

OVERVIEW