



**FOCUS GROUP DISCUSSION:
Electric Vehicle Drivers**

September 13, 2018
12:30-1:30 PM

Agenda

- Welcome
- Introductions
- Discussion
- Preliminary EV Charger Placement Optimization Study Findings
- Closing Remarks

- Find the optimal infrastructure investment to support electric vehicle travel:
 - **Where** to deploy charging stations?
 - **How many** charging outlets must be built at each station?
- The modeling framework considers:
 - EV trip feasibility
 - Minimizing charging station investment cost
 - Minimizing travelers delay including:
 - Charging time
 - Queuing delay time
 - Detour time

This study focuses on investing in DC fast chargers for long distance (intercity) trips of EV users.

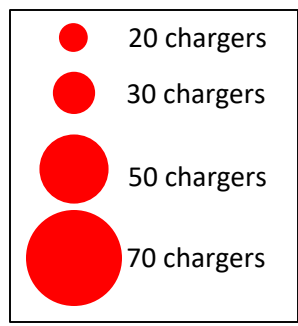
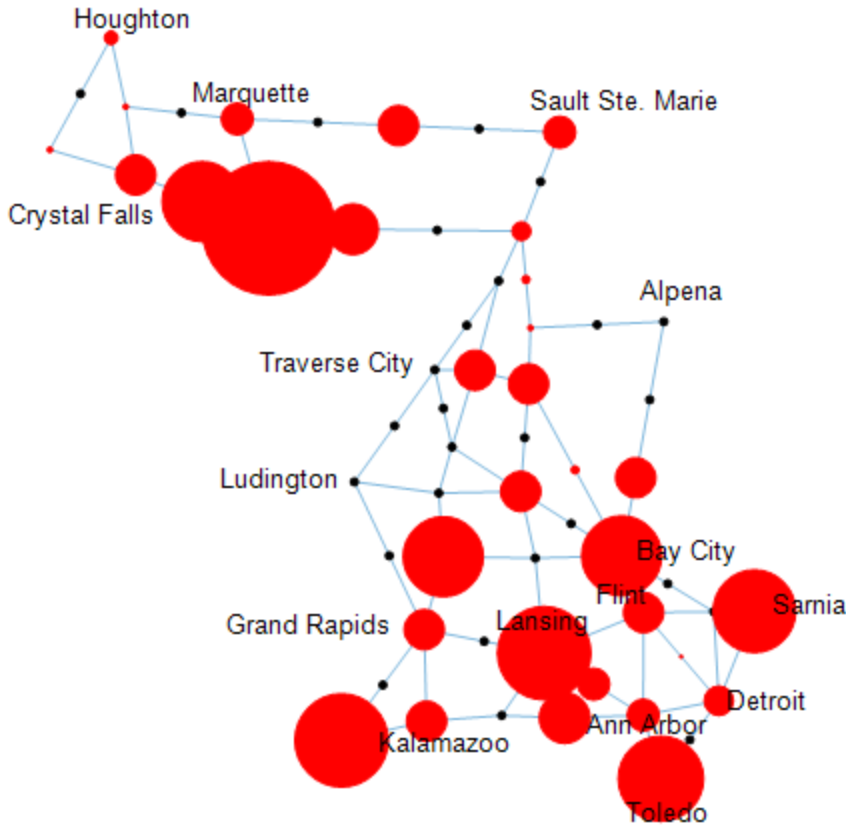


Reference Road Network

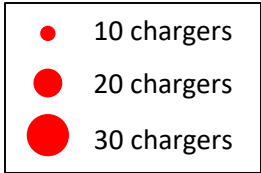
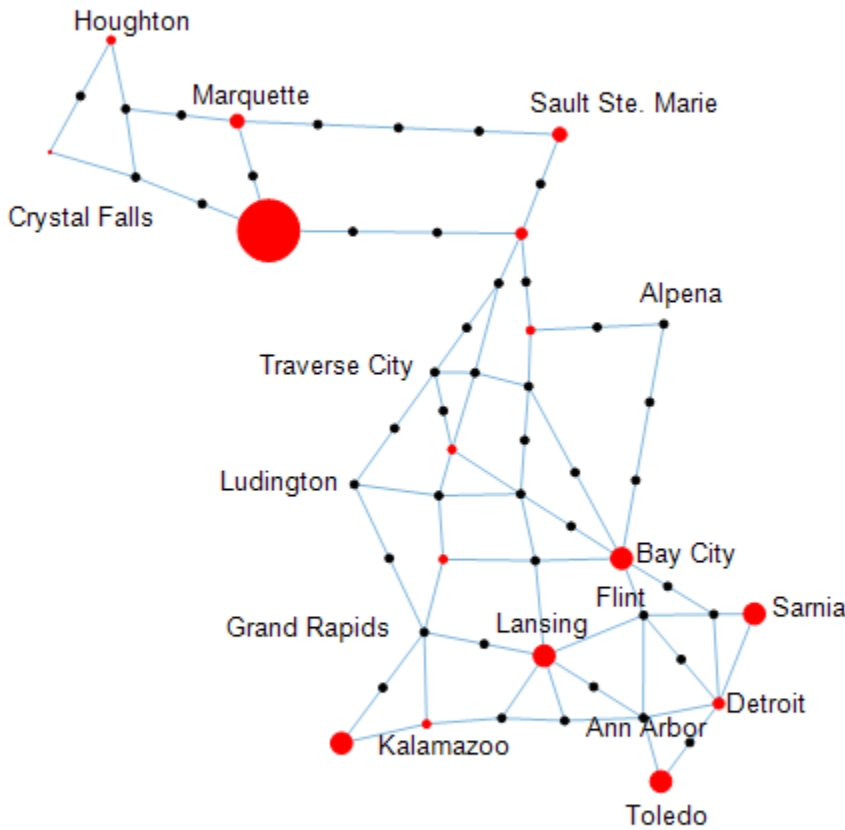
- Major cities and interstate highways
- The focus is on intercity travel
- Travel demand around major cities is aggregated to the city center
- Travel demand within the cities were excluded
- The distance between candidate points is less than 50 miles
- Candidate points may or may not be selected for building charging stations



Scenario 1: Rapid market growth, 50kw charger w/ 70 kWh Battery



Scenario 7: Rapid market growth, 150kw charger w/ 100kWh Battery



Thank you.

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