

# State Transportation Plan & State Freight Plan 2022 Updates

Commission Workshop  
**July 13, 2021**



# Agenda

- Public survey summary
- Rightsizing policy effort
- Needs analyses
- Wrap up

# Public Survey Summary

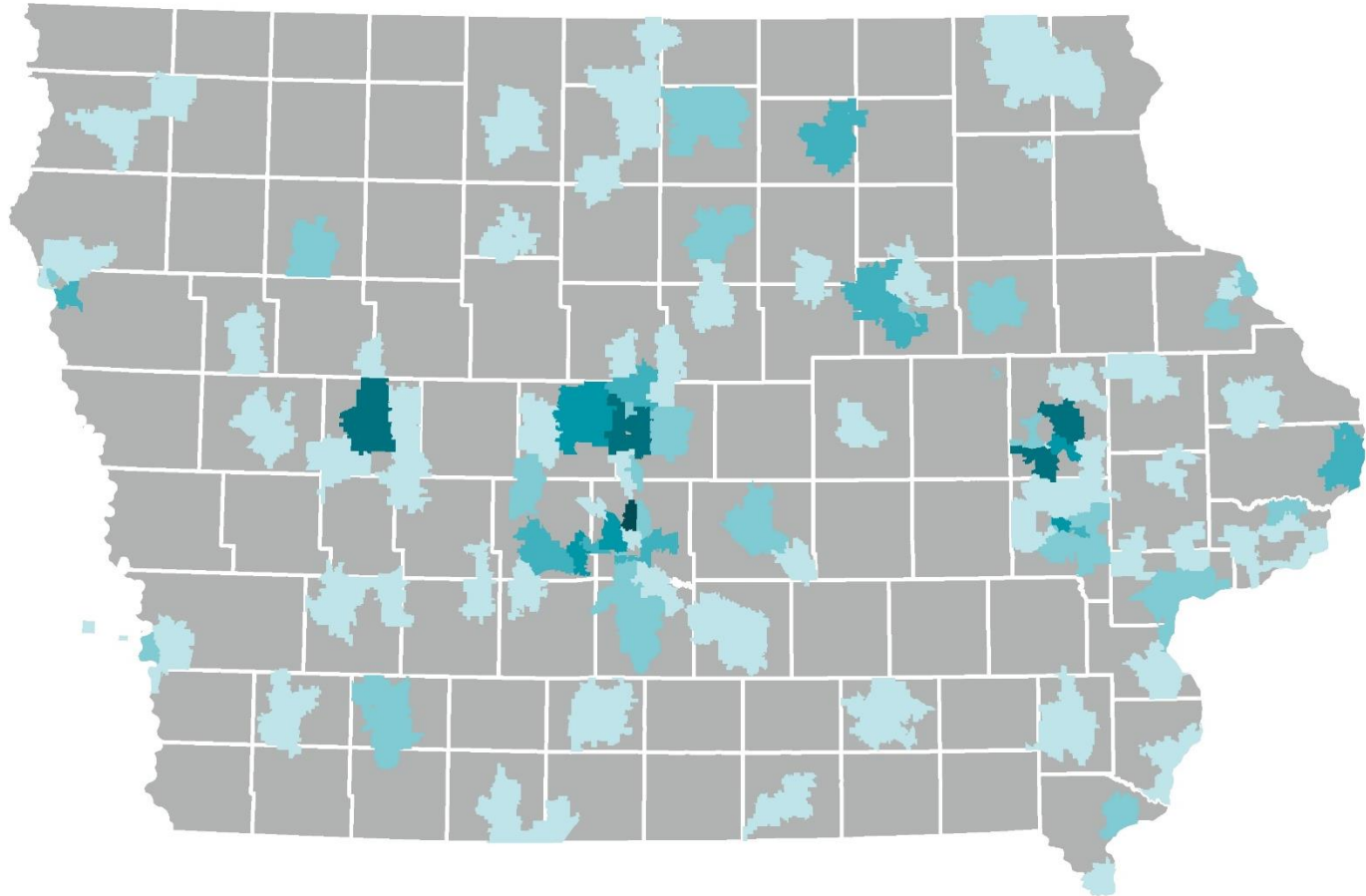
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## Public input survey

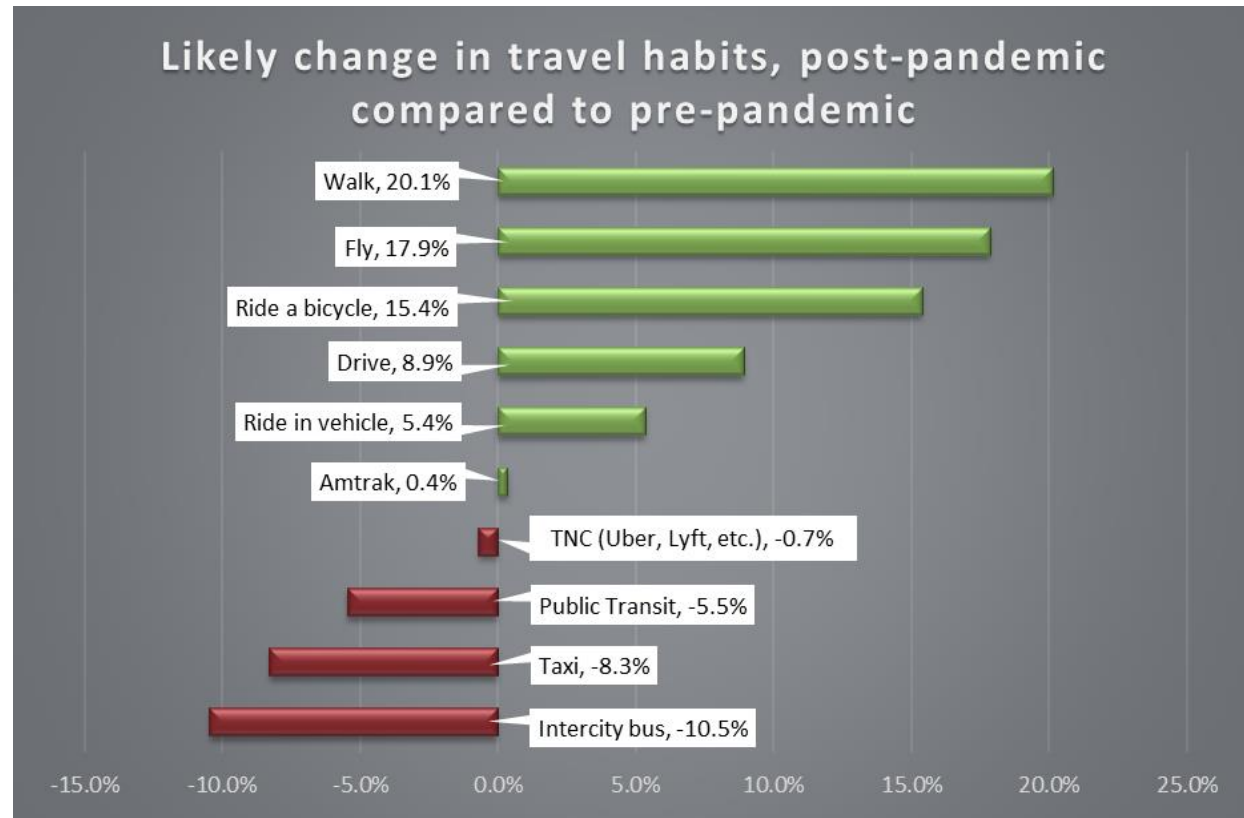
- Was available May 19 – June 8
- Advertised through press release, social media, and extensive stakeholder distribution
- 281 responses
- Good geographic coverage, but limited media coverage and general participation
- Results still provide good feedback; considering options for conducting another similar survey

# Responses by zip code

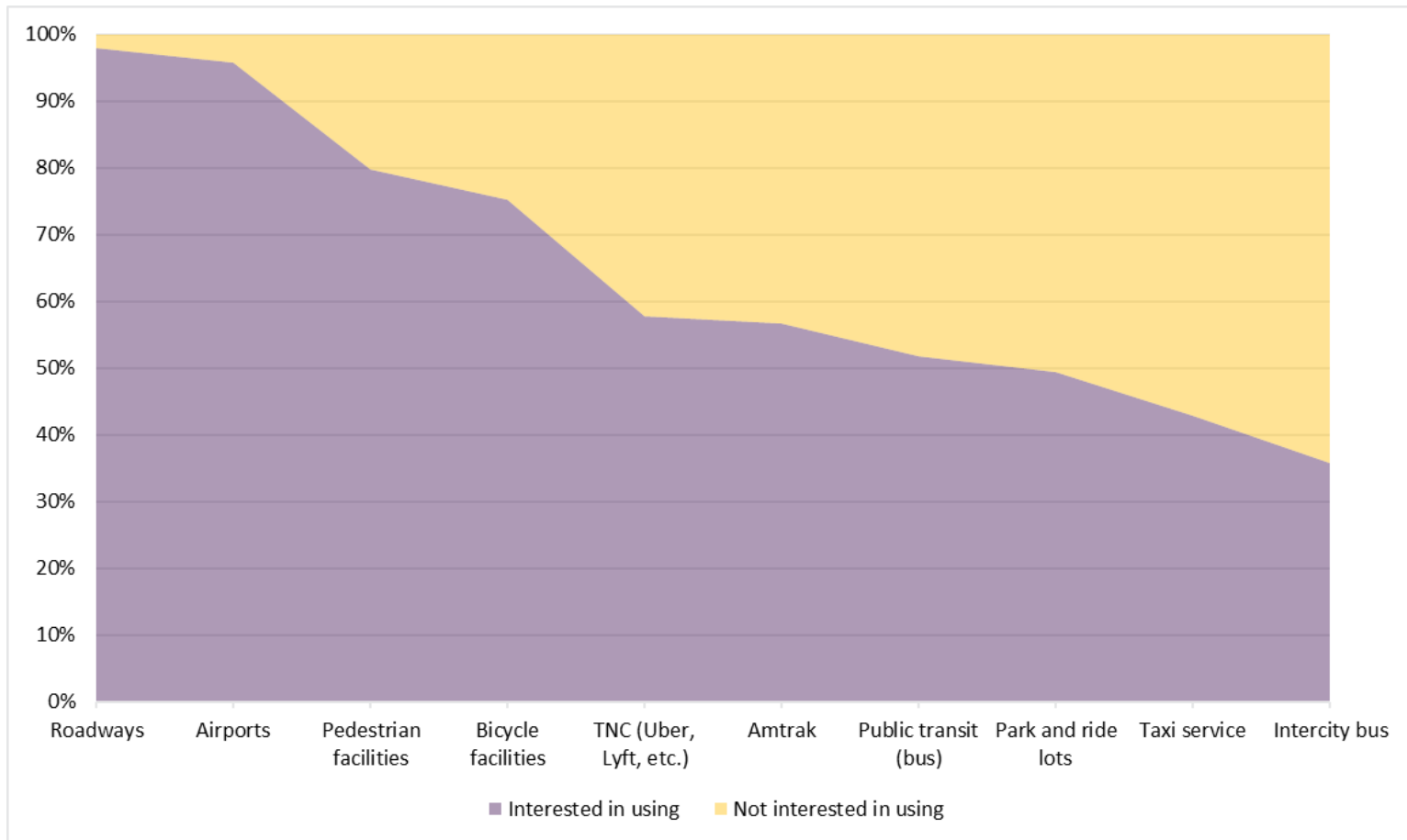


# COVID-19 impacts

- Changes in travel modes
- Increase in home deliveries
- Increase in working from home



## Level of interest in using mode/infrastructure



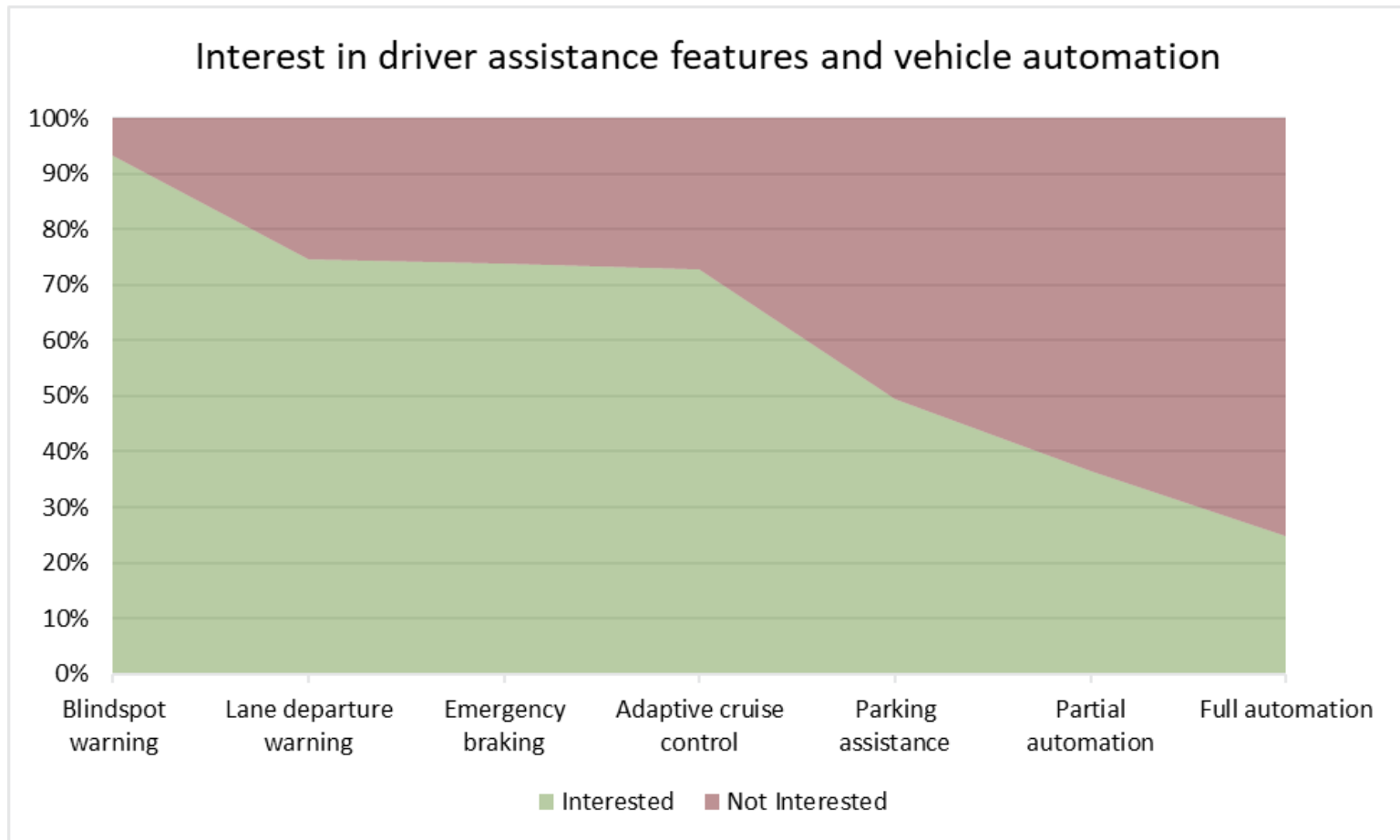
# System objectives insights

- Modes/infrastructure ranked by percent of positive responses

	Safety	Condition	Accessibility	Delay	Average
Airports	1	1	2	7	2.75
Pedestrian facilities	3	4	3	1	2.75
Bicycle facilities	4	2	4	2	3
Roadways	2	8	1	3	3.5
TNC (Uber, Lyft, etc.)	8	3	5	5	5.25
Public transit (bus)	6	5	7	6	6
Park and ride lots	7	6	8	4	6.25
Amtrak	5	7	10	10	8
Taxi service	10	9	6	9	8.5
Intercity bus	9	10	9	8	9



# Future technology options

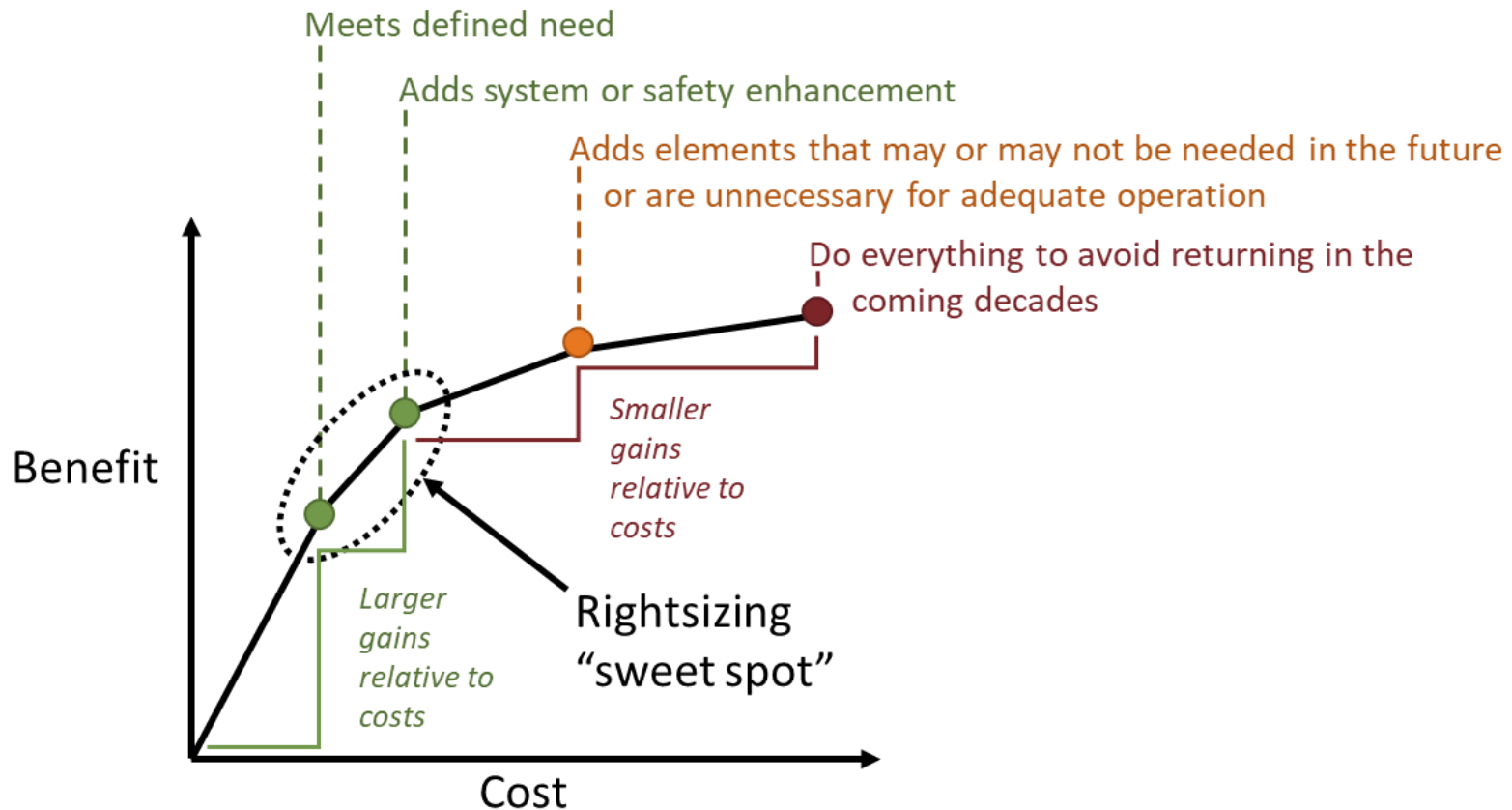


# Rightsizing Policy

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# Rightsizing “sweet spot”



# Approach

- Avoid temptation to gravitate to project development immediately
- Initial focus on policy, adopted into SLRTP
- Use initial policy to evaluate project development
- Identify gaps and develop action items

# Policy: Rightsizing definition

- In summary...
  - Rightsizing means **seeking an appropriate level and type of investment**, and
  - leveraging existing assets and limited resources to **maximize the returns for users**.

# Policy statements by topic

- ✓ Defined need
- ✓ Consideration of comprehensive needs
- ✓ Stewardship priority
- ✓ Stratification of the system
- ✓ Addressing equity
- ✓ Addressing resiliency
- ✓ Addressing congestion or operational issues
- ✓ Consideration of emerging technologies
- ✓ Speculative development
- Interchange access – under development

# Needs Analyses

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## Critical analyses timeline

- Infrastructure condition analysis (ICE) – complete
- Operations analysis (ICE-OPS) – complete
- Bottlenecks analysis (INRIX) – complete
- Freight network updates – complete
- Capacity analysis (iTRAM) – in review
- Resiliency analysis – in review
- Safety analysis – late summer
- Modal systems analysis – ongoing
- *Accessibility/equity analysis – TBD*

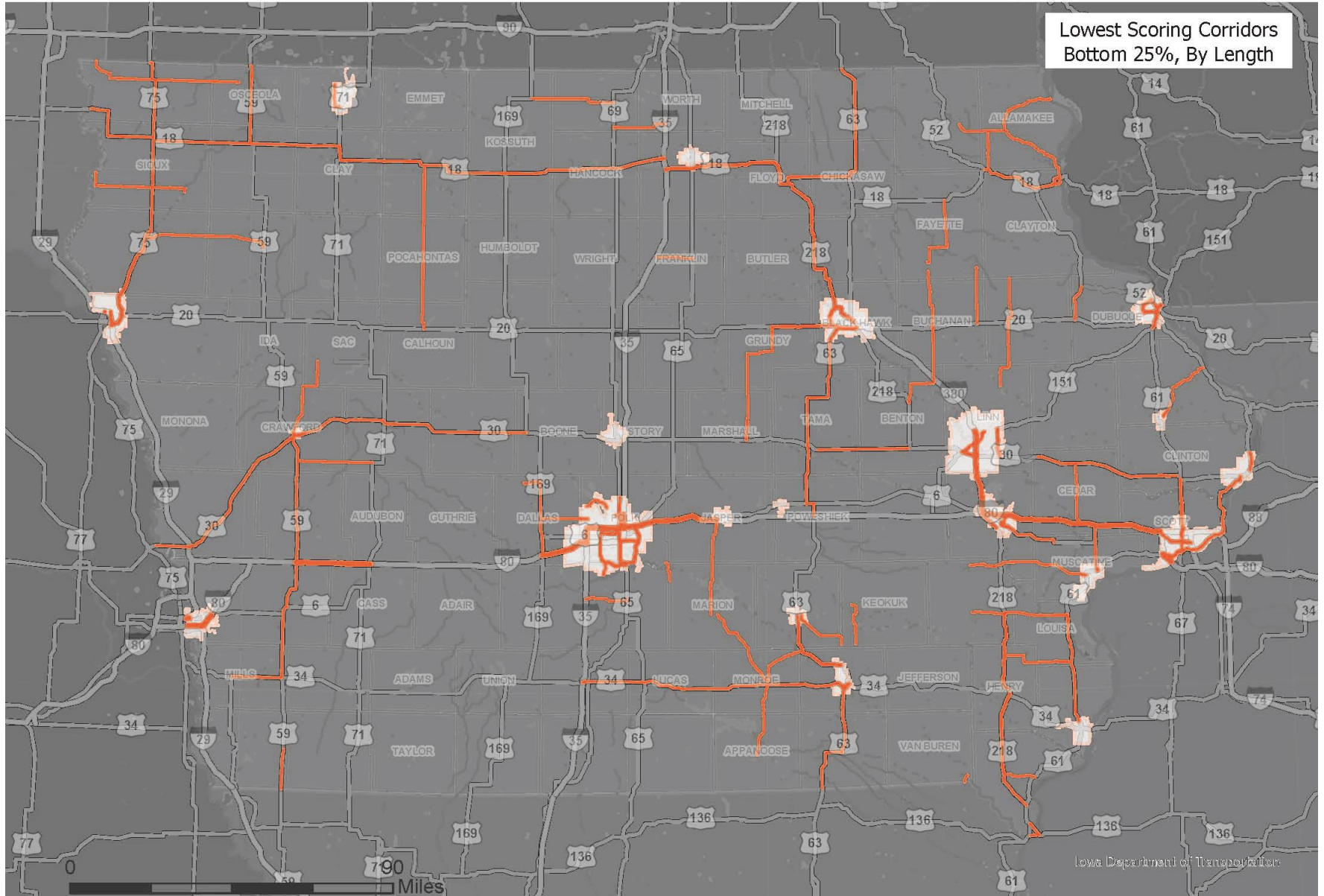


# Infrastructure condition analysis (ICE)

- Objective: Provides a composite rating based on the most recent infrastructure condition and performance data for the Primary Highway System

ICE Criteria	Percent of ICE Score
Pavement Condition Index	25%
Bridge Condition Index	25%
International Roughness Index	15%
Combination Truck AADT	15%
Single-Unit Truck AADT	5%
Passenger AADT	5%
Congestion Index (V/C)	10%

# STATE TRANSPORTATION PLAN AND STATE FREIGHT PLAN UPDATES

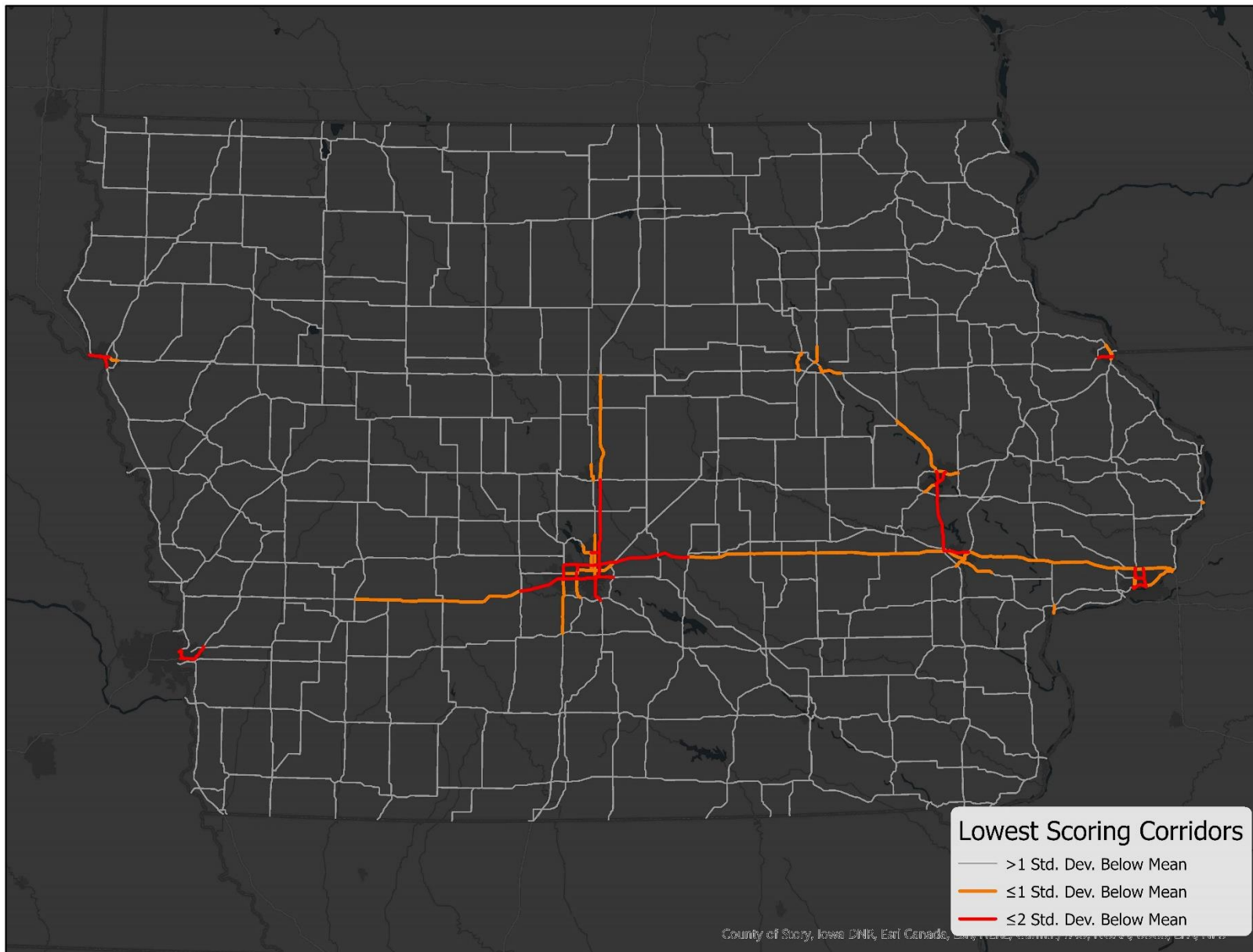


# Operations analysis – ICE-OPS

- Objective: Primary Highway System screening that quantifies the relative risk to safe and reliable operations

ICE-OPS Criteria	Percent of ICE-OPS Score
AADT	20%
Annual Bottleneck Duration	15%
Incident Density	15%
Crash Rate	15%
Buffer Time Index	10%
Event Center Proximity	5%
Flood Event Density	5%
Winter Weather Sensitive Mileage	5%
Freight Network Mileage	5%
ICE Infrastructure Score	5%

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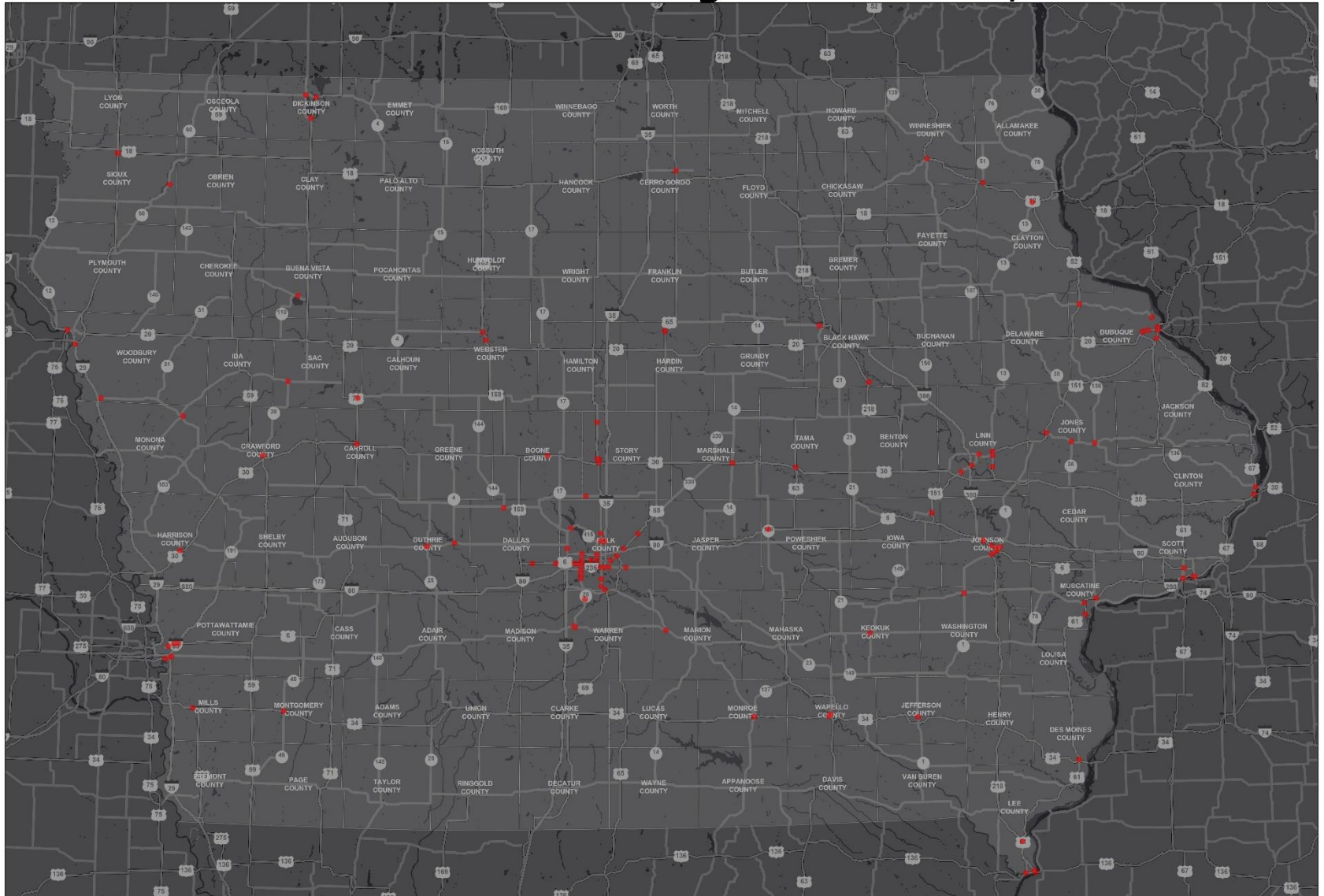
## Bottlenecks analysis (INRIX)

- Objective: Primary Highway System screening to identify locations that experience recurring traffic slow-downs
- Refined methodology:
  - Identify segments that meet bottleneck definition
  - Calculate annual bottleneck duration per segment
  - Calculate bottleneck duration per mile
  - Isolate most severe bottlenecks
  - Next step: apply filters (e.g., freight, commuter, etc.)



STATE TRANSPORTATION PLAN AND STATE FREIGHT PLAN UPDATES

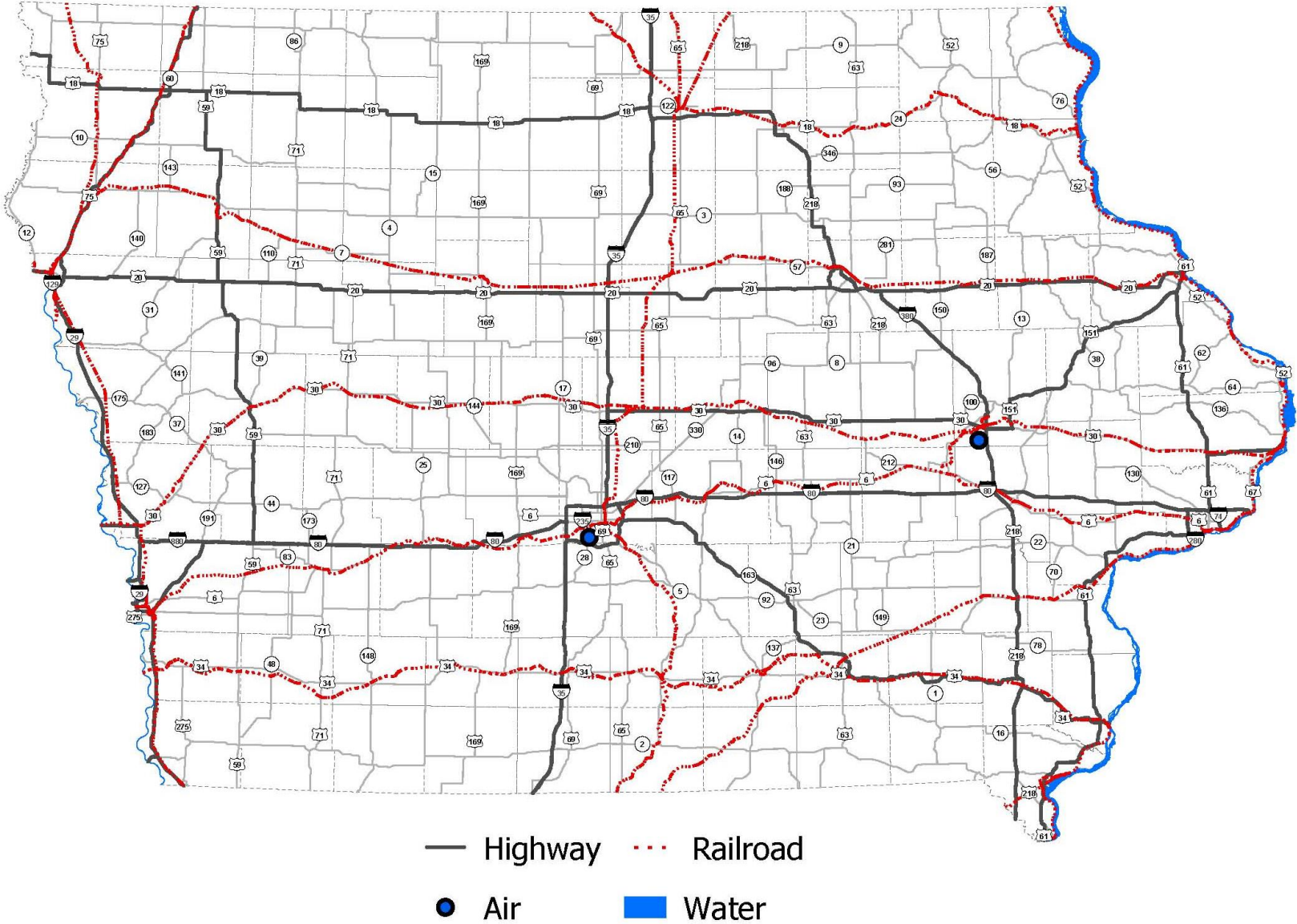
# Locations with Recurring Slow-downs, 2019



# Freight network updates

- Objective: Designate freight network locations to protect and enhance for improved freight mobility.
- Methodology:
  - Air: major cargo airports
  - Highway: 30% truck traffic or 1000 truck AADT or 1000 oversize/overweight permits annually
  - Rail: 5 million tons per mile
  - Water: marine highways

# STATE TRANSPORTATION PLAN AND STATE FREIGHT PLAN UPDATES





# Wrap Up

- Critical next step:
  - Complete needs analyses
- Next Commission workshop discussion:
  - Remainder of needs analyses
  - Transition into strategies and actions





QUESTIONS?



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