Crash Data Consortium Update

Board of Directors: December 18, 2024



Crash data consortium grant and goals

- The Denver Regional Council of Governments received 405c traffic records improvement grants for federal fiscal years 2023 and 2024 from the National Highway Traffic Safety Administration.
- Primary goals.
 - Investigate and demonstrate the value of a regional crash data consortium to inventory the needs of the region.
 - Work to **identify** and **address** common issues with crash data **collection**, **processing** and **analysis**.
- 405c grants are not meant to permanently fund projects.

Timeline

- Surveys and interviews to create draft inventory and needs assessment.
- Workshop and feedback from consortium on inventory and needs assessment.
- Consortium meetings.
 - November 10, 2022.
 - May 11, 2023.
 - September 28, 2023.

Federal Fiscal Year 2023 October 2022 – September 2023

- Continued stakeholder engagement.
- Remediation of inventory and needs assessment.
- End-of-year survey.
- Final report.
- Consortium meetings.
 - February 29, 2024.
 - June 20, 2024.
 - September 26, 2024.

Federal Fiscal Year 2024 October 2023 – September 2024

Key deliverables throughout the project

- Regional Crash Data Inventory.
- Regional Crash Data Needs Assessment.
- End-of-year survey.
- Regional Crash Data Consortium Final Report.
- Inventory, Needs Assessment and Final Report available on <u>DRCOG website</u>.

Regional Crash Data Inventory

- Stakeholder engagement process.
- Data source descriptions.
- Analysis objectives.
- Issues and challenges.
- Appendices:
 - Data sources used as reported by stakeholders.
 - Data collection methodologies and other law enforcement information as reported by stakeholders.



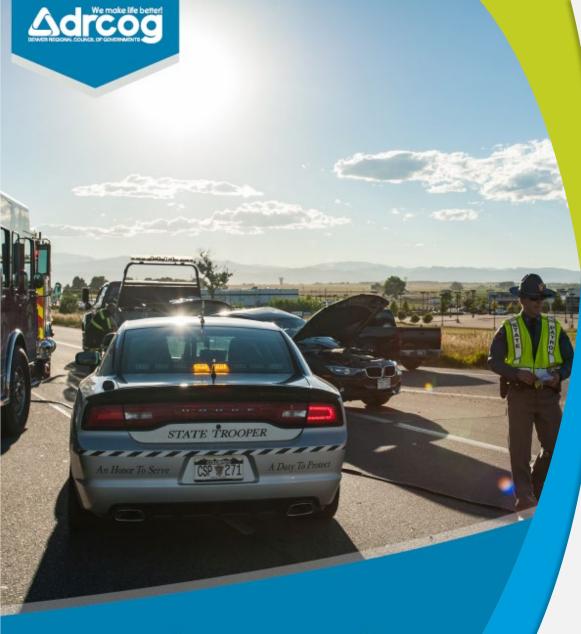
Regional Crash Data Needs Assessment

- Specific needs identified by the consortium.
- Potential strategies, resources, and barriers.
- Cross-reference to the inventory for each need.
- Categories of needs identified:
 - Geospatial.
 - Quality.
 - Timeliness.
 - Capacity.
 - Integration.
 - Accessibility.

End-of-year survey

- Conducted through Survey Monkey with crash data consortium stakeholders.
- Takeaways:
 - Meeting frequency unanimous among respondents to be 'at about the right frequency'.
 - Nearly all had some familiarity with DRCOG before participating in consortium activities, but **several reported no prior familiarity**.
 - **Diverse participation among professions** represented in the consortium.
 - All said that the consortium had helped them understand better.
 - Slightly more than half said that they had seen data quality improvements.





Regional Crash Data Consor Final Report

Final Report

- Addresses primary goals:
 - Investigate and demonstrate the value of a regional crash data consortium to inventory the needs of the region.
 - Work to identify and address common issues with crash data collection, processing and analysis.
- Distributed through email and available on DRCOG website.



Grant performance measures

- **Completeness**: The project will help reduce the percentage of missing latitude and longitude data from 35-50% to 30% in five years.
 - Result: 16% missing latitude and longitude in 2022.
- Integration: The project will help increase the percentage of crash records from CDOT's crash data linking to a DRCOG or CDOT linear referencing system from 0% to 25% by October 2024.
 - Result: 59% of records in 2022 crash data linked.
- Accessibility: Staff will improve data and target outreach to increase downloads from DRCOG's Regional Data Catalog from 133 to 166 in a one-year period (25% increase).
 - Result: 64% increase.

Outcomes

- Improved data quality.
 - More accurate latitudes and longitudes.
 - Less missing data.
 - Less personal identifiable information in crash narratives.
- Improved timeliness of data delivery.
- Improved access to crash data.
 - Greater understanding of available data.
 - Greater access to narratives and diagrams.
- Increased number and depth of partnerships.
 - More law enforcement partnerships.
 - Bring medical examiners, coroners, and other medical field professionals and organizations into consortium activities.

Final report recommendations

- Improve general statewide crash reporting practices.
- Improve collection of location information.
- Improve collection of critical data elements.
- Improve crash data processing practices.
- Increase crash data analyst access and competencies.
- Sustain and expand the crash data consortium.
- Report includes strategies to achieve each recommendation and an estimated timeframe to accomplish the strategy.

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Cascading effects of recommendation strategies

Standardize and improve input from law enforcement.

- Software or hardware.
- Data validation.
- Training.

Less time required to process.

- Department of Transportation.
- DRCOG.
- Local governments.
- Vendors and consultants.

Higher-quality crash data available sooner for analysis.



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Implementation strategies

- Develop or acquire **improved software** for law enforcement.
- Require critical data elements on all reports.
- Facilitate training with law enforcement agencies and other stakeholders.
- Explore and fix data transmission issues between law enforcement agencies and the state.
- Continue engagement with law enforcement agencies in the region to identify what is working well, what challenges exist, how to make improvements, and how to implement other crash data improvement strategies.
- Build connections with medical field, including medical examiners and coroner's offices, to explore and develop new ways of addressing underreporting of impairment-related crashes and non-motorist crashes.

Next steps

• Develop implementation framework.

- Prioritize strategies laid out in final report.
- Determine action leaders and supporting partners.
- Continue crash data consortium meetings.
 - Set up on-going meeting schedule.

• Build and maintain relationships.

- Law enforcement.
- Medical field.
- Current consortium partnerships.





Thank you!

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