

Implementing interactive, multi-platform reporting with Quarto and R



September 2025 | Modeling Mobility Conference | Liz Roten

Transportation System Performance Evaluation (TSPE)

- Comprehensive review of the regional transportation landscape
- Must be completed before every transportation policy plan/long-range transportation plan

Transportation System Performance Evaluation

[Preface](#)

Stewardship >

1 Efficiently preserve and maintain the transportation system

2 Operate the regional transportation system efficiently and cost - effectively

Safety and Security >

3 Reduce vulnerability

4 Reduce crashes and improve safety and security

Access to Destinations >

Transportation System Performance Evaluation

AUTHOR
Metropolitan Council

PUBLISHED
April 14, 2023

Preface

This report is a comprehensive review of the Twin Cities transportation system as prepared by Metropolitan Council in 2023. The Minnesota State Legislature adopted statutes in 1996 requiring the Metropolitan Council to produce this report (previously called the Transportation System Audit). This report was prepared to inform the 2024 update of the region’s long-range transportation plan, the 2050 Transportation Policy Plan (2050 TPP).

Metropolitan Council

The Council’s mission is to foster efficient and economic growth for a prosperous metropolitan region

Chair: Charlie Zelle

Table 1: Metropolitan Council Members

District 1	Judy Johnson	District 10	Peter Lindstrom
District 2	Reva Chamblis	District 11	Susan Vento
District 3	Tyronne Carter	District 12	Gail Cederberg
District 4	Deb Barber	District 13	Chai Lee
District 5	Anjuli Cameron	District 14	Willetha (Toni) Carter
District 6	John Pacheco Jr.	District 15	Tenzin Dolkar

Goals

Stable

Reproducible

Multi-format



Not a dashboard

Where did this go?

Raw data

`mndot-omnibus-survey-2012-2020-labels.csv`

Processing script

`d_mndot_omnibus_survey.R`

Stable data object

`mndot_omnibus_survey.RDS`

Plotting script

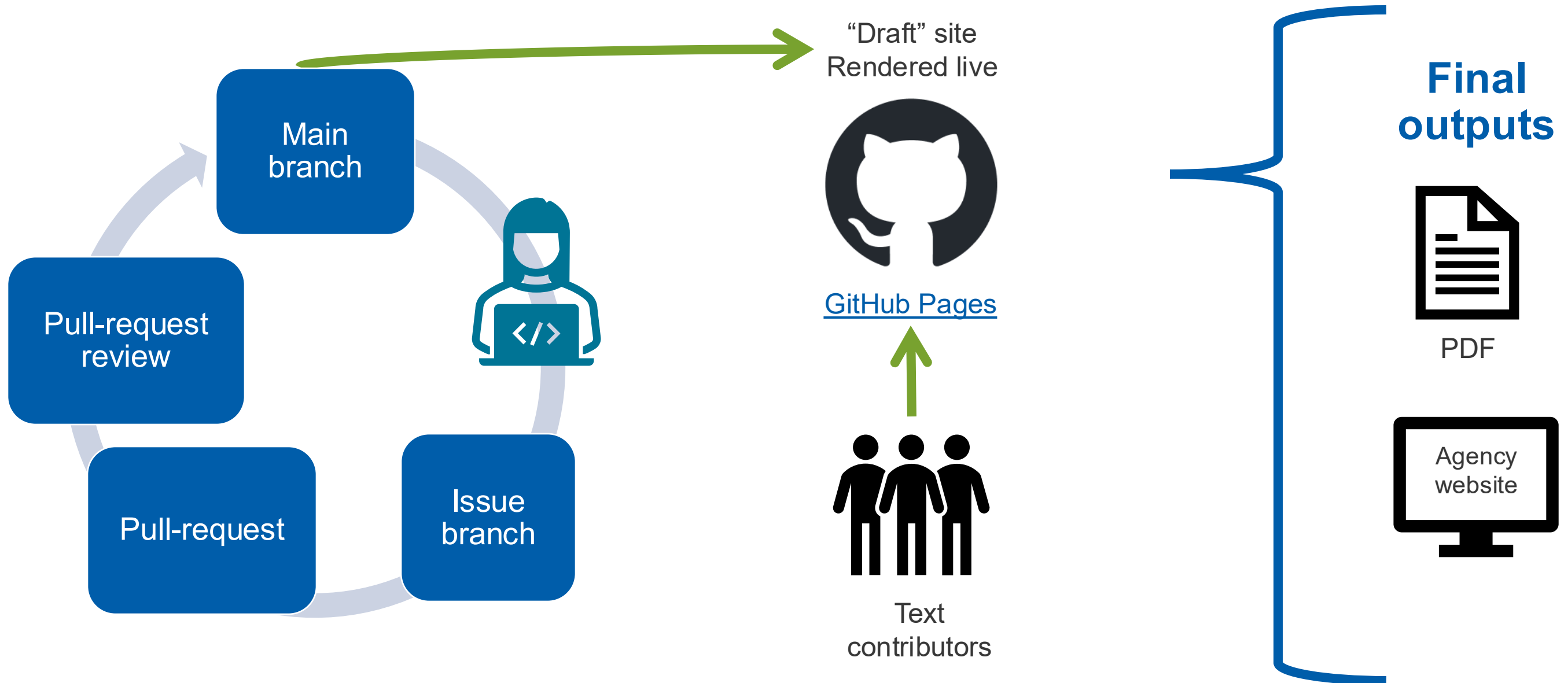
`fig_plotly_mndot_omnibus_survey.R`

Quarto document

`02-02_reduce_fatalities_injuries.qmd`

Where did this come from?

Workflow





Liz Roten

Senior Data Scientist, Metropolitan Transportation Services

[More on how Quarto, GitHub, and R can work together](#)

