

The Traffic Records Integration Program (TRIP)

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Who we are

The Traffic Records Integration Program (TRIP) is an effort to develop and maintain a data repository for public health and safety research to further the goals of the Vision Zero 2030 to achieve zero fatalities or serious injuries on our roads.

Traffic safety remains a public health priority across the country, including Washington. The Traffic Records Integration Program (TRIP) is an effort to develop and maintain a data repository for public health and safety research to further the goals of the Vision Zero 2030 to achieve zero fatalities or serious injuries on our roads.

Vision & mission

To promote a seamless, coordinated crash to outcome experience for all crash-impacted Washington residents by providing objective analysis and information.

The mission of the TRIP is to establish an integrated traffic records system that further promotes the goals of the TRC. The goals of the TRC include :

- Using technology to improve the collection, dissemination, and analysis of traffic records data.
- Streamlining processes for state agencies to share data efficiently.
- Providing a statewide forum for coordinating multi-agency projects.
- Promoting the value of traffic records and encouraging training to help agencies use the data in decision-making.

What we are

TRIP maintains a strict privacy program and has developed data governance and data security processes to ensure driver privacy, appropriate use of the data, and security of the data. TRIP engages in several activities, including but not limited to:

Create data products

TRIP can provide data requestors with datasets for analysis. All requests must go through our data approval process and meet our privacy standards. In addition, we maintain public facing dashboards and TRIP produces a number of resources aimed at helping data users' access and consume state education data.

Conduct cross sector research

TRIP specializes in fulfilling data requests or analyzing data to address *cross-sector* research questions (questions that cannot be answered by one state agency).

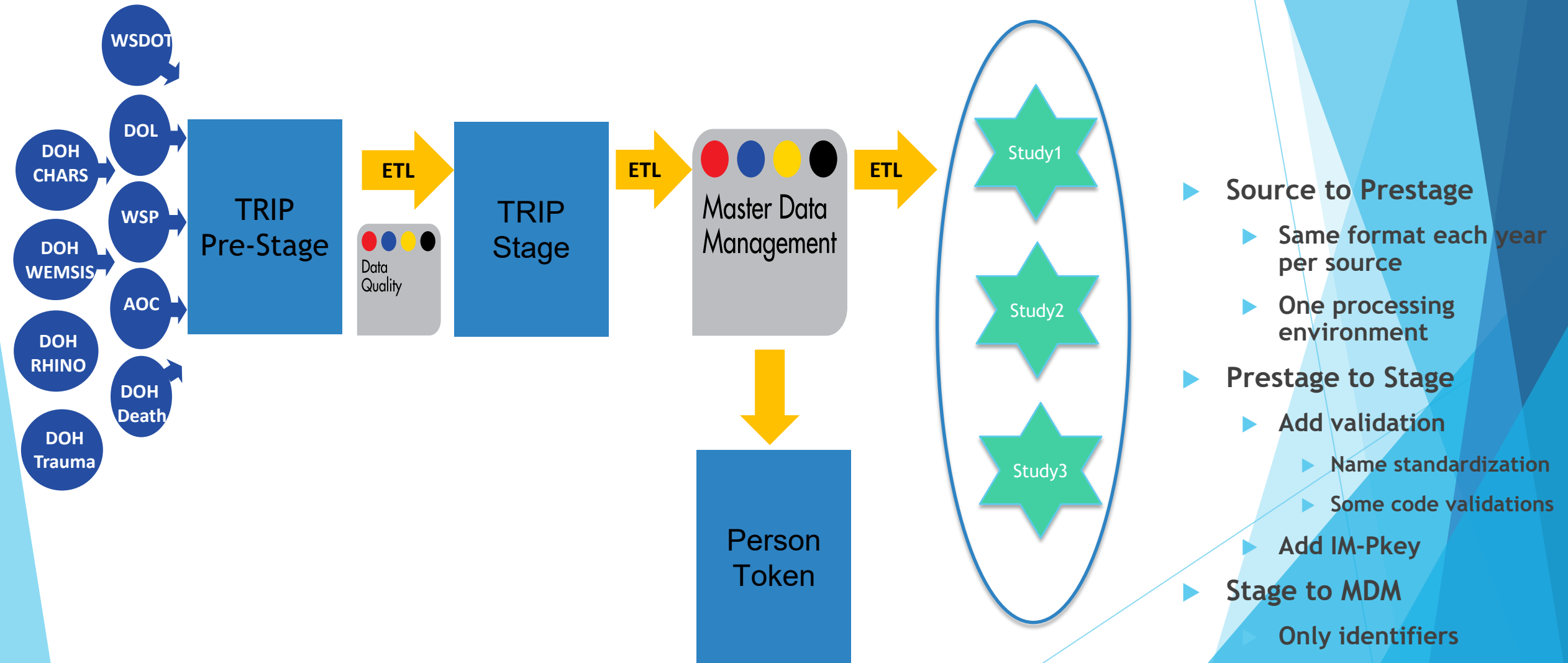
Support data collections

TRIP collects data through multiple systems, including the Department of Licensing and the Department of Transportation.

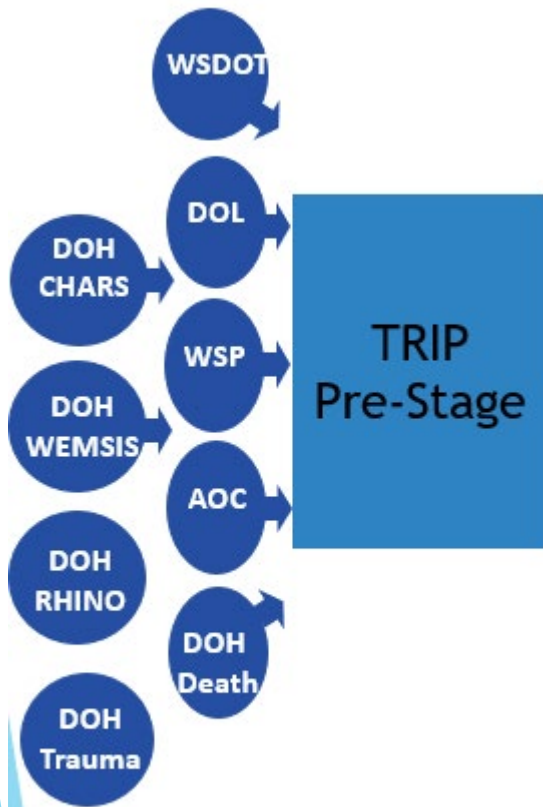
Data Contributors

Phase	Data Provider	Data	Description
1	WSDOT	1.1 Statewide Crash Data – the Collision Location Analysis System (CLAS)	Complete (fatal and non-fatal) collision data including identifiers
	WSP	1.2 DUI-related Toxicology Results	Toxicology lab data including drug levels from surviving drivers.
	DOL	1.3 Driver License History and Ignition Interlocks (IID) & WA Driver Abstracts	Driver license history and IID data
2	AOC	2.1 Court Case Filings – Judicial Information System	Criminal history information from appellate, superior, limited jurisdiction and juvenile courts.
	DOH	2.2 Death Vital Records	Data collected on death certificates.
	DOH	2.3 Washington Emergency Medical Services Information System	Pre-hospital electronic patient care records repository data
3	DOH	3.1 Emergency Department Visits – Rapid health Information Network	Syndromic surveillance data collected from hospitals and clinics.
	DOH	3.2 Comprehensive Hospital Abstract Reporting Systems	Discharge information on inpatient and observation unit patient stays.

The TRIP Data Flow and Loading Process



Source to Prestage



- ▶ Meet with each data provider to understand their data
- ▶ Meet with each data provider to get an understanding of research/data needs
- ▶ Established necessary data sharing agreements
- ▶ So far:
 - ▶ Received and profiled data

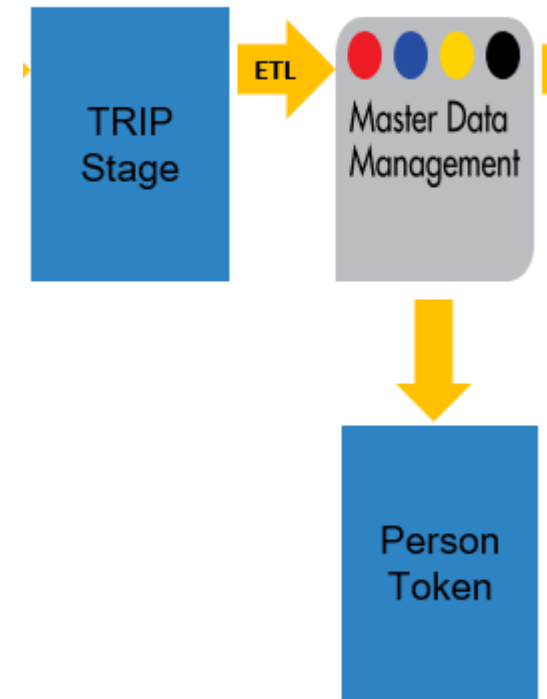
Prestage to Stage



- ▶ The TRIP linkage process has two key parts. The first is the creation of a Primary Key (PKey) and the second is a Linkage ID (ID).
- ▶ One way to increase the possibility of improving the matching results is to have a tiered PKey system which requires more information in the dataset to attempt.
- ▶ So far:
 - ▶ Developed and implemented data cleansing (names)
 - ▶ Developed loading process

Stage to MDM

- ▶ Identity matching is conducted by the TRIP staff using the same process as the P20W Data Warehouse
- ▶ Once data profiling is complete, the TRIP research staff meet with the Forecasting and Research staff who will be completing the identity matching.
- ▶ For each record a standard set of identifiers are strung together to create an identity resolution token. These tokens are constructed so that no two people will share the same token.
- ▶ So far:
 - ▶ Developed and implemented data cleansing (names)
 - ▶ Developed initial linking variables



Data Care

- ▶ Accuracy
- ▶ Consistency
- ▶ Completeness
- ▶ Accessibility
- ▶ Relevance
- ▶ Interpretability

Limitations of the TRIP

- ▶ Limited generalizability
- ▶ Data lag
- ▶ Washington data only
- ▶ Crash data
- ▶ Humans error

Privacy Overview

- ▶ Security
- ▶ Minimization/Purpose Driven
- ▶ Transparency
- ▶ Accountability
- ▶ Value Driven
- ▶ Culture Driven
- ▶ Due Diligence/Lawful Use

Privacy Principles and Considerations

- ▶ Lawful, fair, and responsible use
- ▶ Data minimization
- ▶ Small number standards
- ▶ Purpose limitation
- ▶ Transparency & accountability
- ▶ Due diligence
- ▶ Security