

# MONASH INDUSTRY TEAM INITIATIVE (MITI)

## DISRUPTION ANALYSIS TOOL

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### Project Objectives

1. Explain why Traffic Flow Deviations (TFDs) occur on CityLink.
  - A TFD is the difference between the expected and actual traffic flows (no. of vehicles for a time period) for any given day on CityLink. The expected traffic flow for any given day is assumed to be equal to the traffic flow on the same day last week or same day last year.
  - Will only attempt to explain TFDs that have occurred in the past (no traffic forecasting).
2. Display TFD information on an interactive user-friendly Tableau dashboard.
  - The end user of the dashboard will be the Traffic team at Transurban.

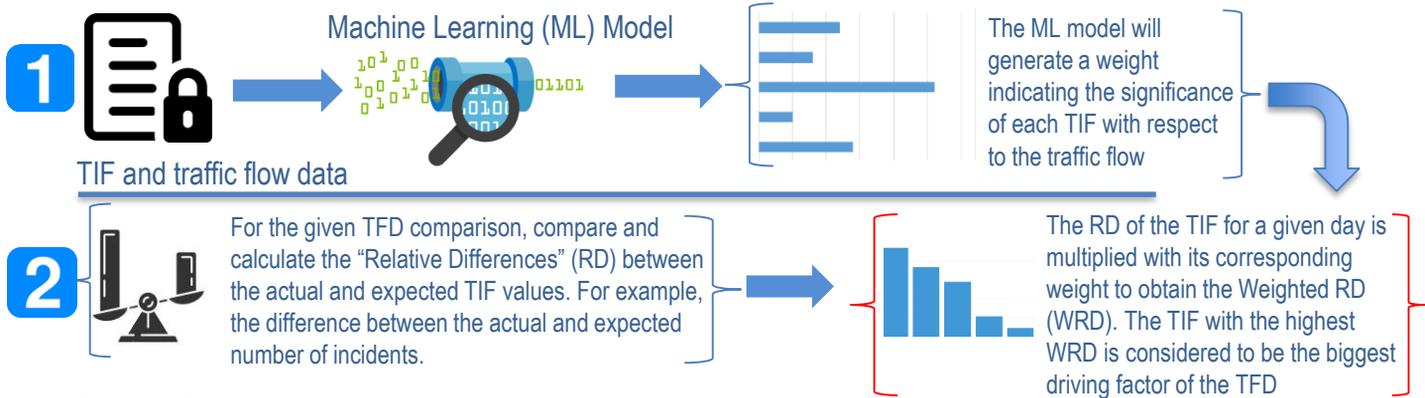


### Traffic Impact Factors (TIFs)

- Factors that were hypothesized to cause TFDs



### Methodology



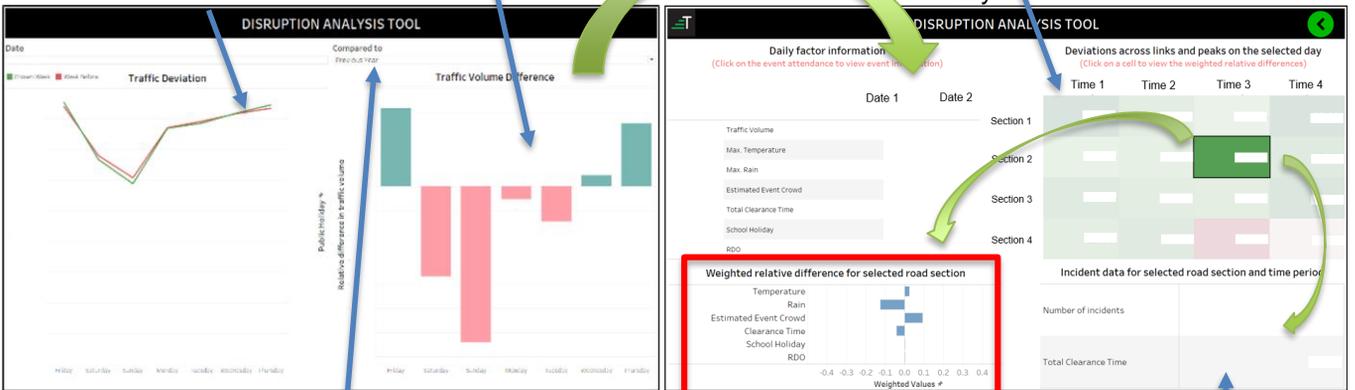
### Tableau Dashboard

Daily total actual and expected traffic volumes for the current week

TFDs for the current week

Select a date

Heat map – TFDs for a given road section and time period on selected day



Option to choose TFD calculation (compare to same day last year or last week)

Indication of which TIF(s) were likely to be key driving factor(s) for the TFD

Incident data for selected road section and time period

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