

# Data Analysis – Road Safety Projects

# Objective

- Reduce incidents on the highway
- Identify the critical spots (chainages) on the highway – chainages with high number of incidents
- Identify deviant behaviors of the road users – drivers and pedestrians.
- Nonconscious design solutions to influence drivers' and pedestrians' behavior – road markings and signboards

# Data Analysis

- Identify the critical chainages
- Trend Analysis – Number of incidents, fatal, major and minor
- Time pattern of incidents – time, day/night, weekday
- Type of vehicles involved – number of cars involved, number of trucks.....including local/outside vehicles
- Type of incidents
- Cause of incidents
- Location of incidents
- Type to Cause mapping
- Mapping type of incident to location

# Fatal Incidents Analysis

- Identify the critical chainages
- Trend Analysis – over 3 years
- Time pattern of incidents – time, day/night, weekday
- Type of vehicles involved – including local/outside vehicles
- Type of incidents
- Cause of incidents
- Location of incidents
- Type to Cause mapping
- Mapping type of incident to location

# Data Analysis

- Above data points separately for our chainages and the entire highway

# Challenges

- Inconsistent data received from the client
- Time spent on data cleaning
- Currently everything is done manually