

Rethinking Mobility for Sustainability, Safety and Inclusion – 18 May



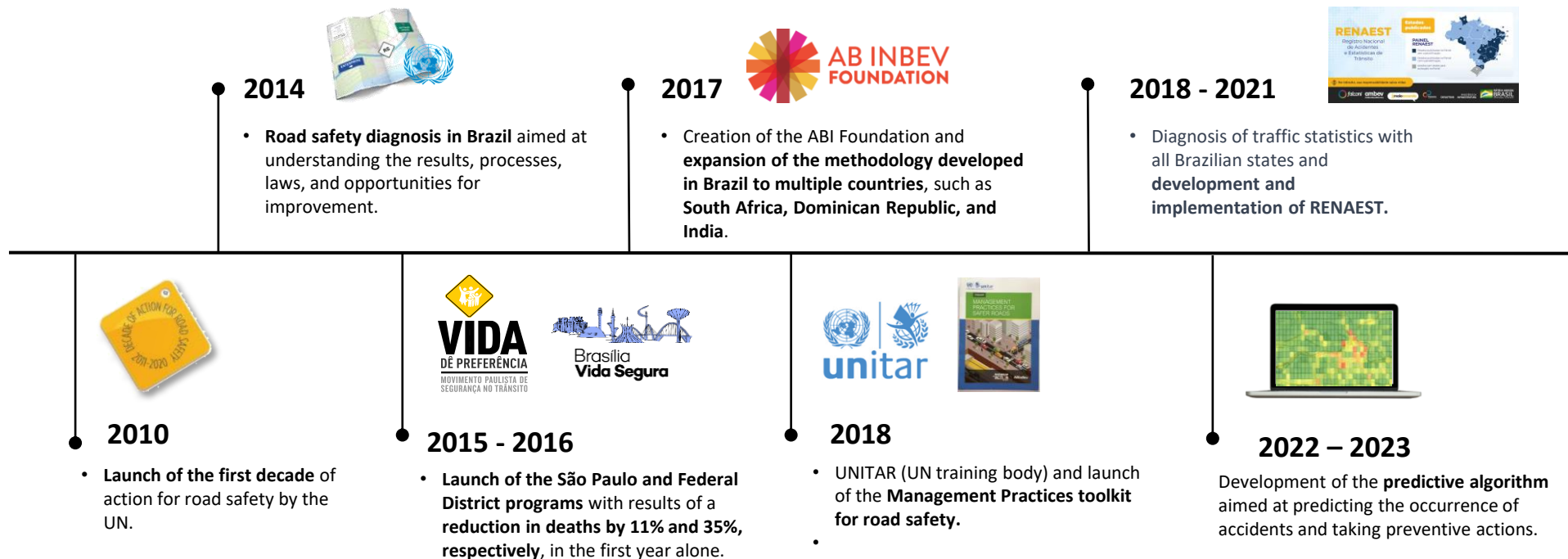
www.unitar.org/roadsafety

unroadsafetyweek.org



Brazil - Program Trajectory

The Road Safety program began in 2014 with a broad diagnosis of the road safety system in Brazil and expanded over the years, having impacted different fronts.

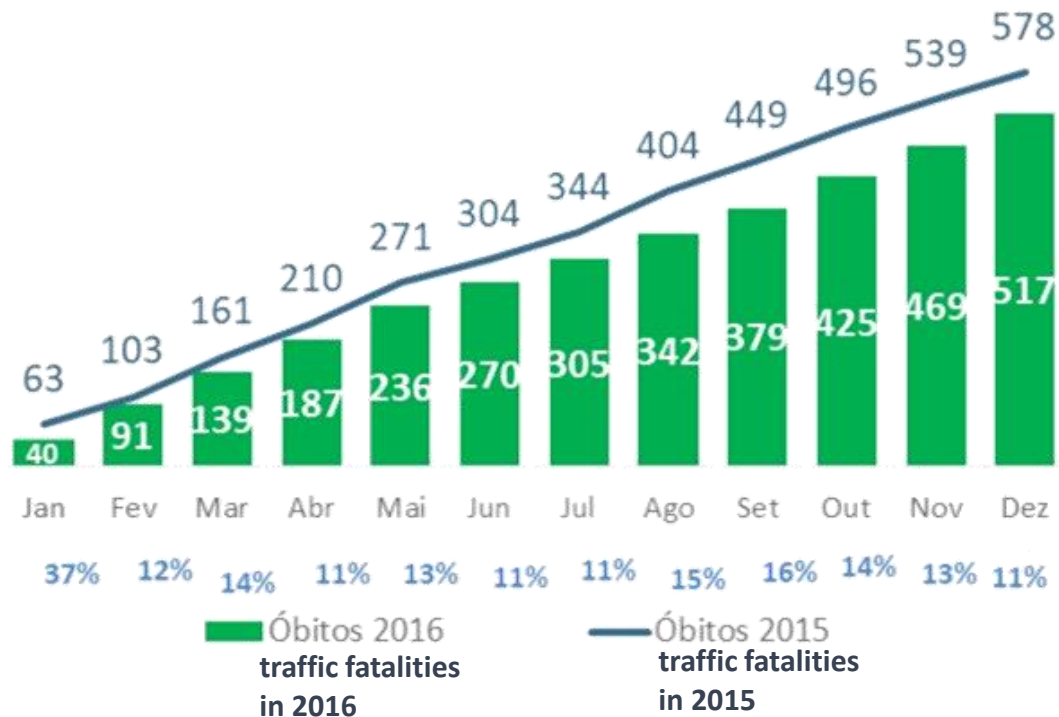




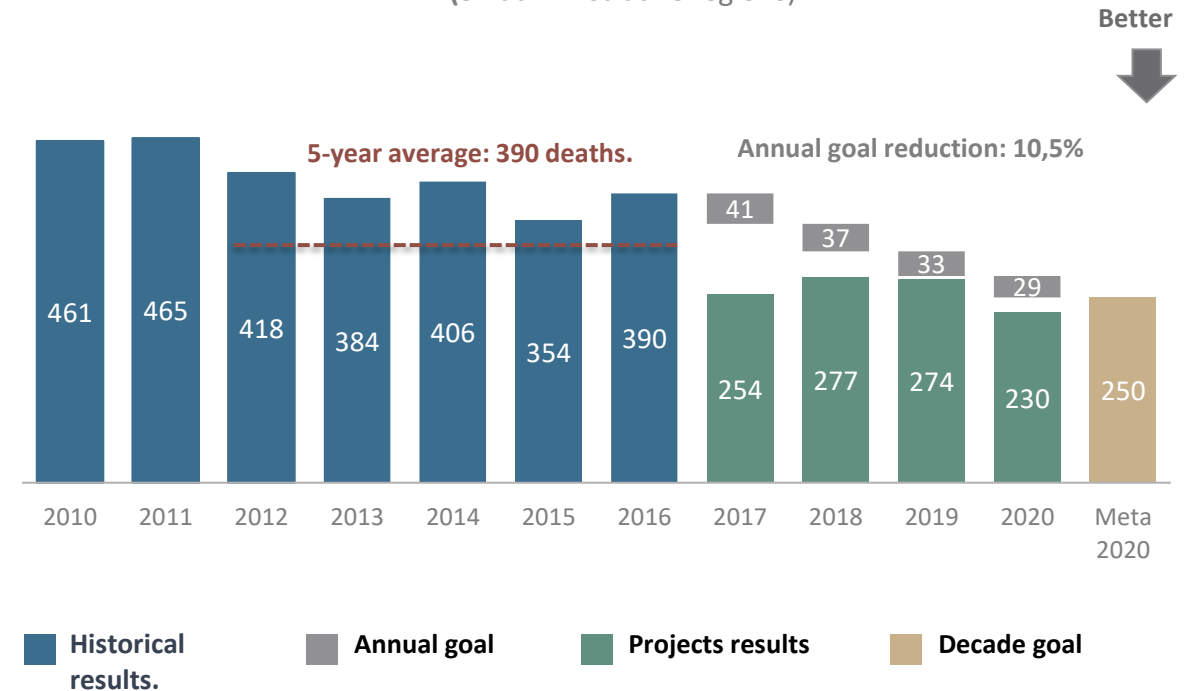
Achieved results

The road safety experiences resulted in an 11% reduction in fatalities in São Paulo in the first year (61 deaths) and a 41% reduction in Brasília from 2017 to 2021, avoiding 525 deaths during that period. Both programs were institutionalized and remain active.

Traffic fatalities in the state of São Paulo
(15 cities, accumulated)

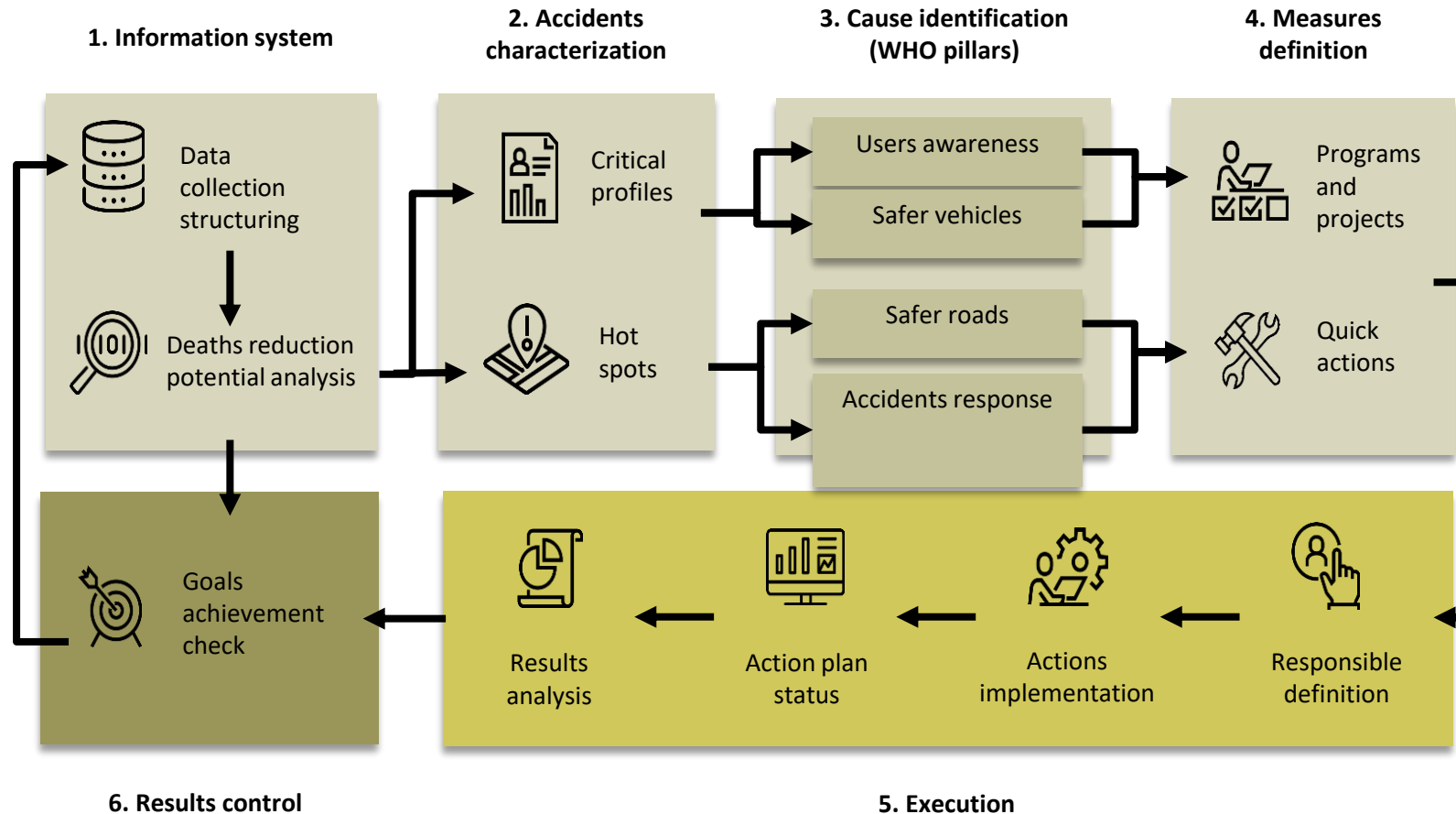


Traffic fatalities in the Federal District
(31 administrative regions)





Achieved results



The application of the method aims at **aligning forces and resources to the reduction of deaths in traffic.**



Predictive model scope

Project objective

The objective of this stage was to develop and validate machine learning models to predict traffic accidents, **conducting experiments** and evaluating the applied techniques and metrics.

Assumptions of the experiments

- Experiments with RENAEST and PRF open data;
- Prediction of collisions in general (collisions, overturning and pile-up);
- Incomplete data is discarded for analysis.

Pilots for experiments

Municipality



Belo Horizonte



São Paulo

Highway stretch



Highway stretch

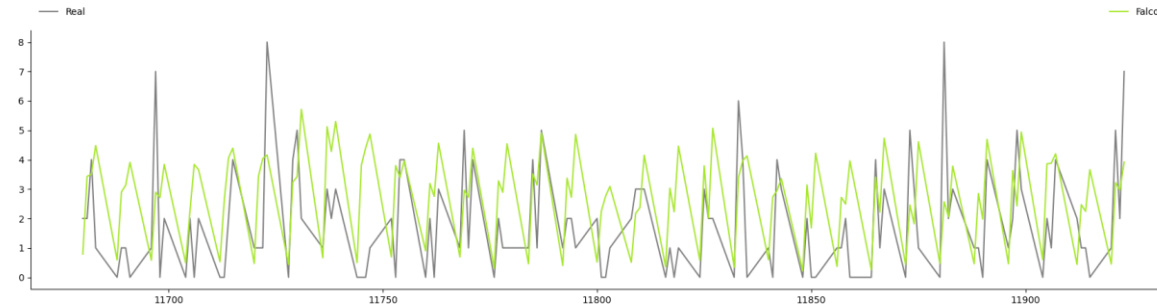
BR-230/PB, between km 0 and 100.





Model building

Ex
Anel Rodoviário – Belo Horizonte
Jan. 2022



RESULTS

