MERGING DATA, SPEED MANAGMENT FOCUS BOGOTÁ

Buenos Aires / 2019











DATABASES AVAILABLE FOR CRASHES, INJURIES AND DEATHS



- Geographic information system for road crashes (SIGAT)
- Source: Police crash report (IPAT)
- Contains record of crashes, injuries and deaths due to road crashes
- Relational database (Tables) and geo-referenced databases (GIS)



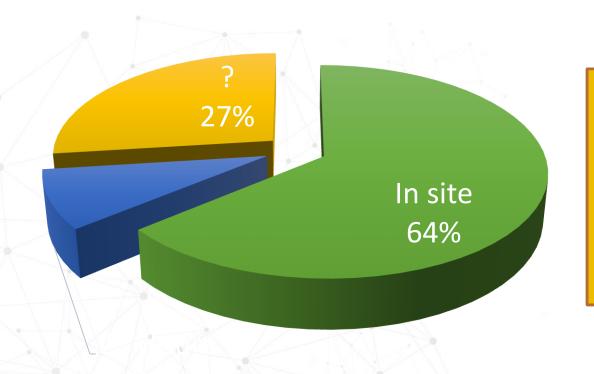








WHY THE NEED FOR MERGING DATA?



Hospital deaths not reported to traffic police











SOLUTION: MERGING DATA WITH THE FORENSIC SYSTEM



- Information system for deaths and injuries due to external causes (SIRDEC and SICLICO)
- Source of information: Forensic registry of necropsies and medical-legal valuations
- Contains record of injuries and deaths due to road crashes (includes all transportation modes)
- Relational database (Tables)



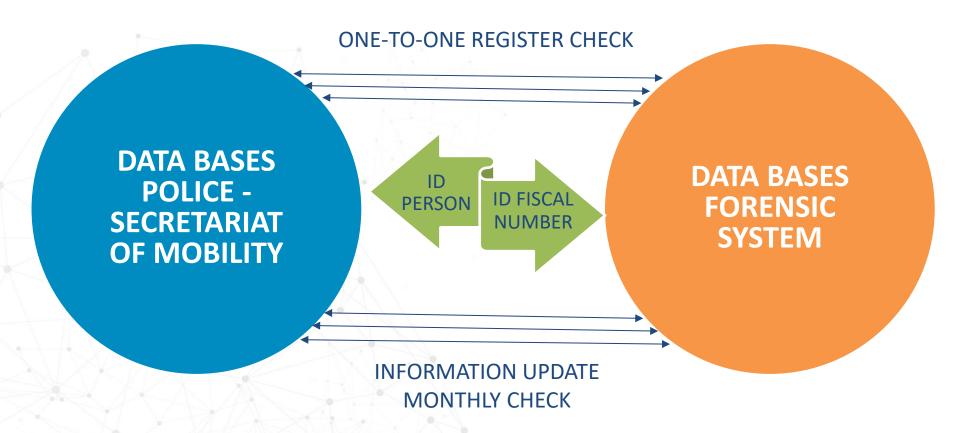








DEATHS DATBASE LINKING





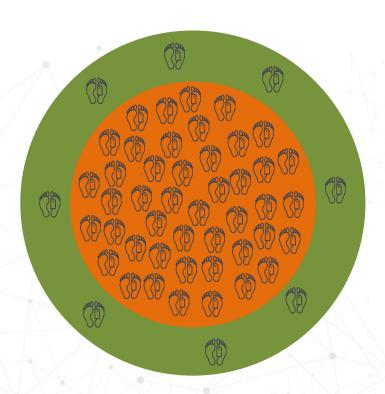








DEATHS DATBASE LINKING (MONTHLY COMPARISON 2018)



SIGAT 514 Deaths

SIRDEC 522 Deaths

DIFFERENCES

Criteria

There are cases in which the Police and the forensic criteria differ regarding the external cause of death and an agreement cannot be reached. So in the police system the death is registered as different external cause (homicide, accidental or suicide) and in the forensic system it is registered as transit.

concept of the forensic surgeon at the autopsy takes precedence.



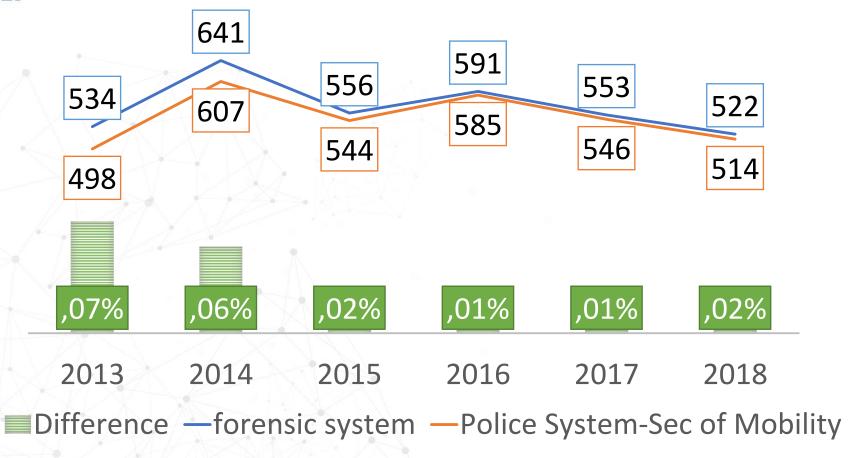








DEATHS DATABASE LINKING (MONTHLY COMPARISON 2018)



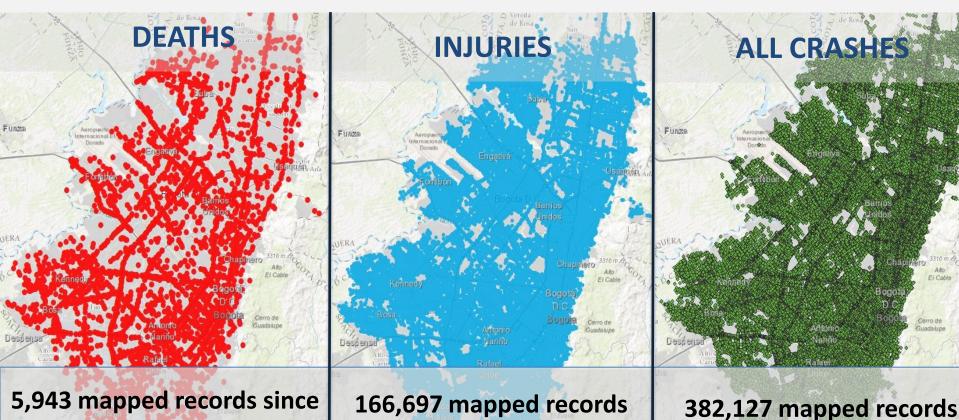








DATABASES GIS



2007 until now

100% of deaths since 2015 are mapped

since 2007 until now

91% of the injured in 2018 are mapped

since 2007 until now 90% of crashes in 2018 are

mapped



MERGING DATA WITH SPEED



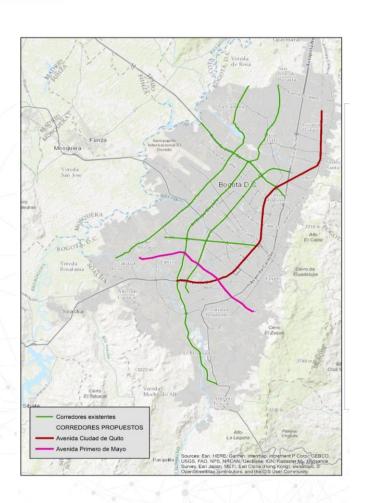
- Information system of real-time speed records in street sections since 2017
- Data acquisition such as speed and travel time that allow analysis and decision making.
- The system consists of 350 wifi and bluetooth sensors.
- Sensors capture public Wi-Fi and Bluetooth signals from user devices (cell phones, car Bluetooth radios, GPS, etc.)

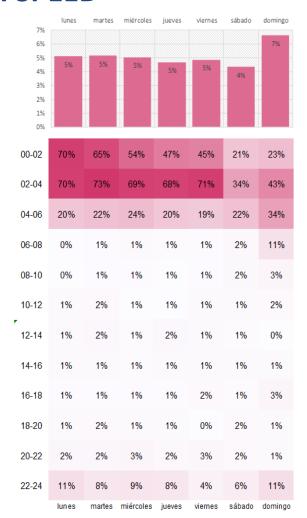


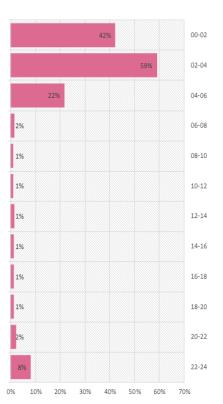




MERGING DATA WITH SPEED









CHALLENGES IN THE DATA LINKING

- Harmonization of concepts of deaths and injuries caused by traffic.
- Protocols for information update when there is no police report.
- Generation of information exchange protocols with other entities (habeas data, agreements, technical documents).
- Classification of injuries according to severity. Data Linking with insurance companies' data bases.
- Integrate to the analysis other sources of information that can be merged as georeferenced tickets and road safety inspections.









THANK YOU!







