

After a semester of intensive research, we identified a number of key players dedicated to the safety of transportation infrastructure.





Engineers





Academics

Ensuring constant, effective communication between these groups is essential to progress in transportation safety.



VALUES

Efficiency, Safety, "Boots on the Ground"

NEEDS

Data, Public Support

CHALLENGES

Overloaded with requests, traffic engineers and government officials need a way of assessing which complaints to prioritize.



VALUES

Complete Streets, **Environment, Safety**

NEEDS

Public Education, **Motivated Citizens**

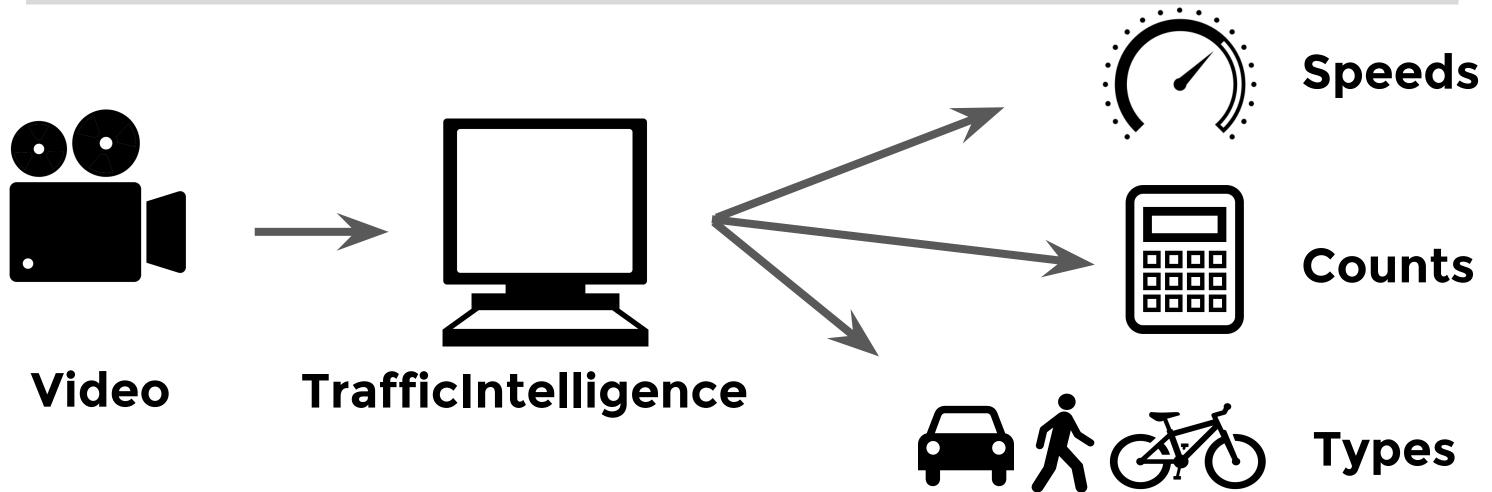
CHALLENGES

Advocacy groups need a way of providing datadriven evidence to make the change they desire in their communities.

Computer Vision in Transportation Infrastructure Anne Wilkinson • Ryan Eggert • Samantha Kumarasena • SANTOS FAMILY FOUNDATION Tenzin Choetso • Joe Gibson • Ankeet Mutha Advisor: Rebecca Christianson • Sponsors: Paul Santos & Anne Stuart

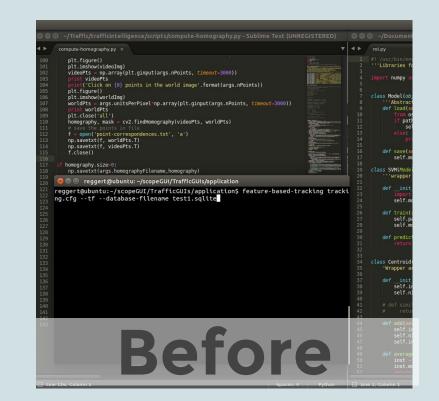


Public Safety With easier access to data, our team aims to bridge the communication gap between the public and policy makers.



In collaboration with researchers at the Polytechnique Montreal, we created a free software package that allows users to upload a video of an intersection and easily collect data using advanced computer vision algorithms.

Our SCOPE team created a **user interface** to Polytechnique Montreal's TrafficIntelligence project. This allows users to easily upload videos and interpret data.



With our graphical user interface, we have made recent advances in computer-vision research available to the public.





