



BLUE CITY TECHNOLOGY

outsmarting traffic

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Blue City Technology



outsmarting traffic

Blue City Technology uses Lidar to provide reliable, real-time, multi-modal traffic data and analytics.

Outlines:

- Existing Technologies
- Blue City Solution
- Demo Solution and Platform
- Current development stage



Optimized
commute times



Improved
safety



Reduced
emissions

Lack of data and analytics creates a bottleneck in traffic management and planning

- Existing traffic monitoring solutions suffer from reliability, cost, and performance issues
- City planners struggle to analyze the data due to a lack of resources and knowledge

Affected by Environment



Requires ideal lighting and weather conditions

Can only detect a single "user"



Can't collect data on vehicles, pedestrians, and cyclists simultaneously

Doesn't work in real-time



Requires offline processing, can't provide real-time data



Data Analysis is performed manually; heavily time consuming and often with delay



Success of any traffic management systems depends on reliable traffic data

City planning is slow, requires significant manual analysis and resources

A new, automated way to collect and analyze traffic data

- Fully automated, real-time, traffic data collection using Lidar
- Fully automated data analytics and predictions for efficient planning
- Used for traffic light optimization, infrastructure planning, and safety improvement

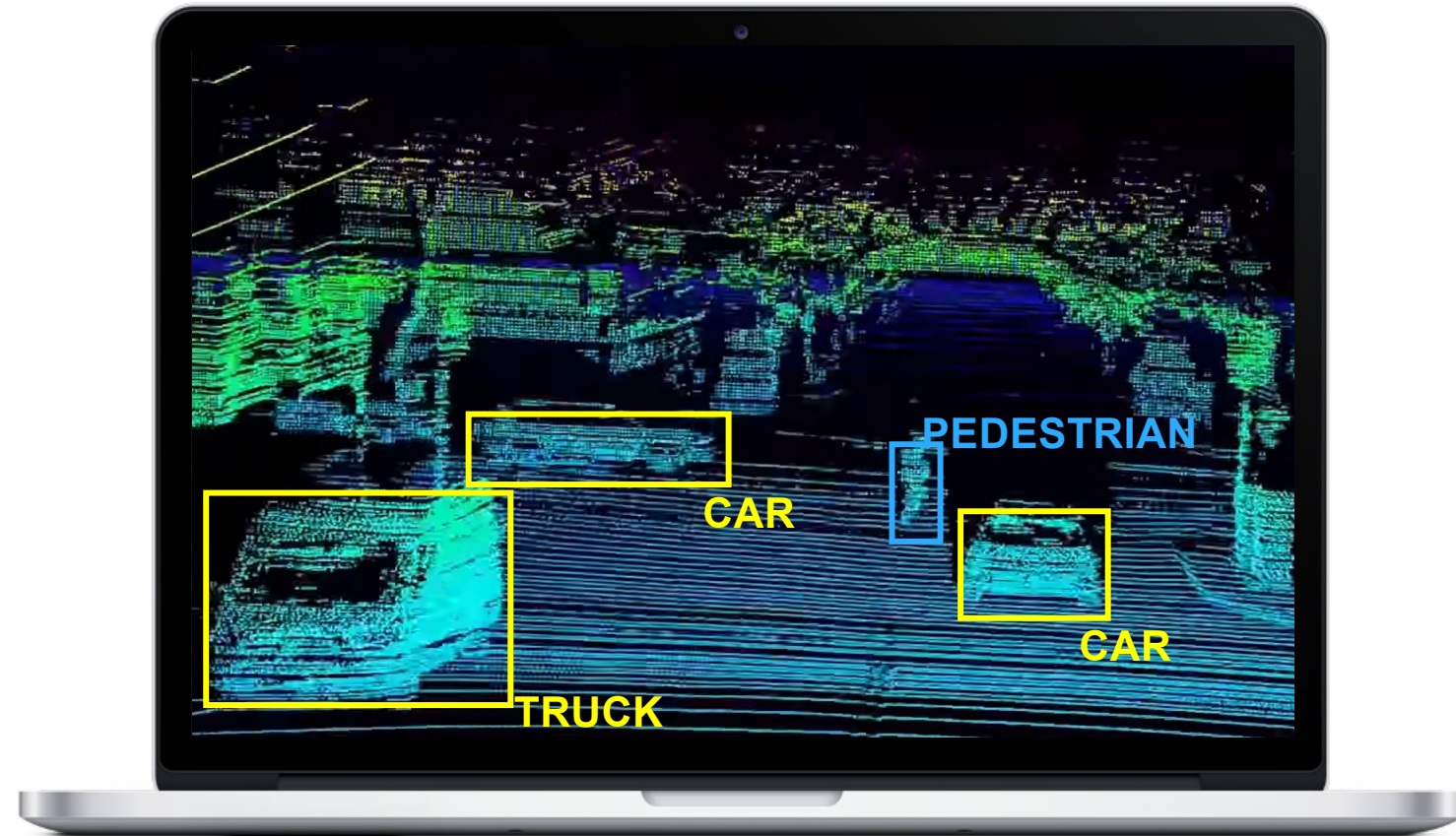
Proprietary AI-Powered Software + Off-the-Shelf Lidar

WE USE:

A **single Lidar** per intersection to create a real-time 3D image of the entire intersection

Deep Learning to process images, detect and classify the objects, and extract their trajectories

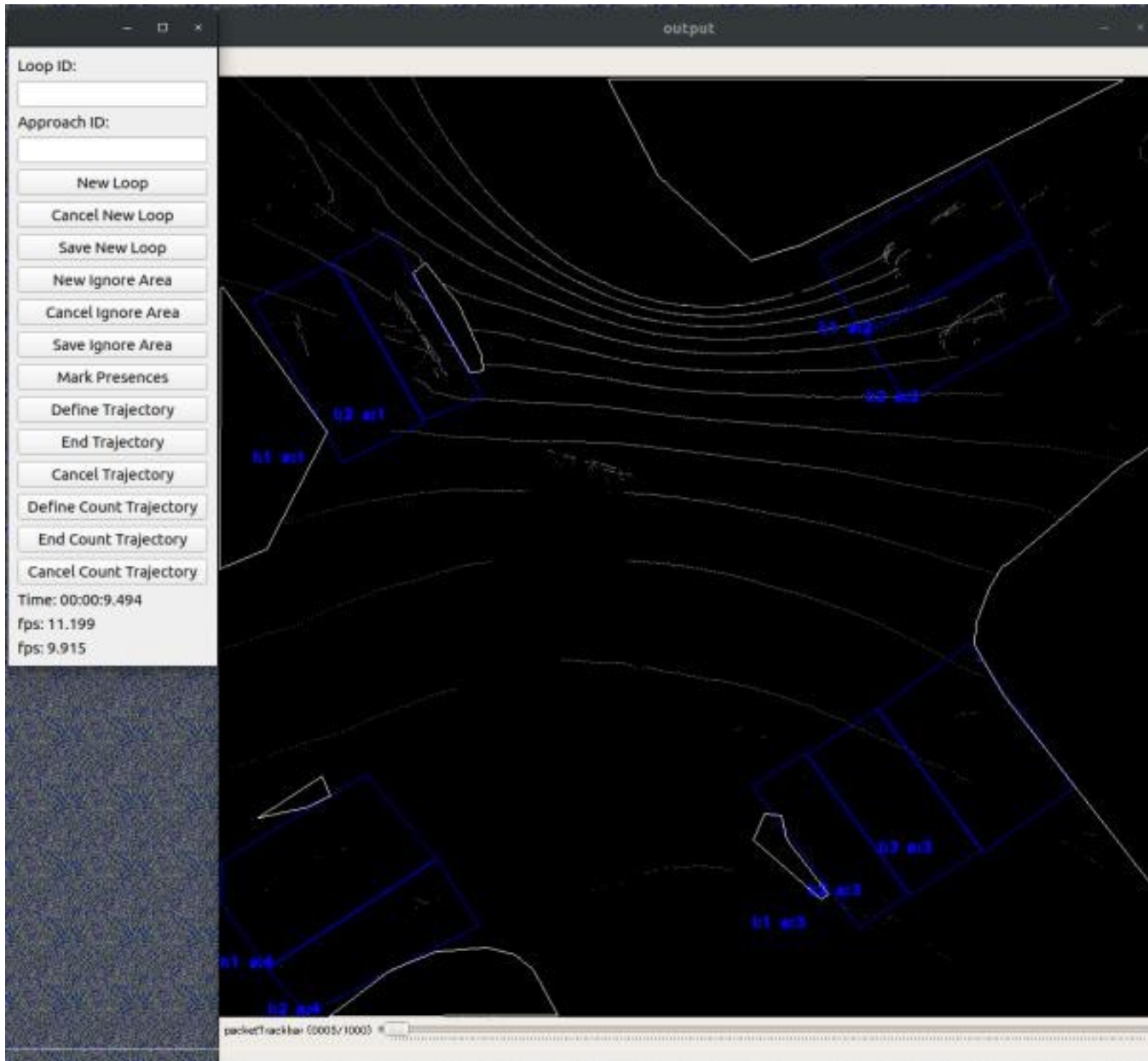
Machine Learning to generate detailed analytics and predictions for planning and safety improvement purposes





Sensor Installation

- Lidar + Processing Unit
- Easy to install
- One sensor to cover whole intersection
- No Specific Infrastructure



Sensor Calibration

- Live data stream locally (WiFi) or remote (LTE)
- Fully customizable virtual loops
- Multi-level loops for different user type
 - Vehicles: assigned turning movements.
 - Cyclists for exclusive light timing.
 - Pedestrian: replacement or complimentary for push buttons

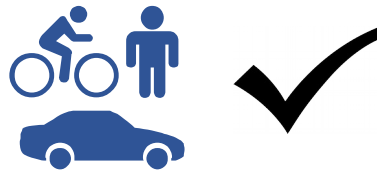
All-in-one solution for cities to monitor and analyze traffic

- Blue City Technology provides a reliable, high-performance, and cost-effective monitoring solution
- Automated data analysis platform removes resource and knowledge barriers

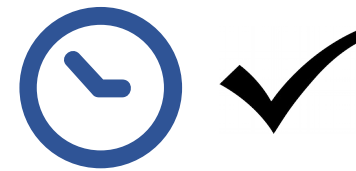
Collect traffic data in any weather or lighting conditions



Single sensor monitors cars, pedestrians, and cyclists



Real-time data; no post processing



Collect data without privacy concerns



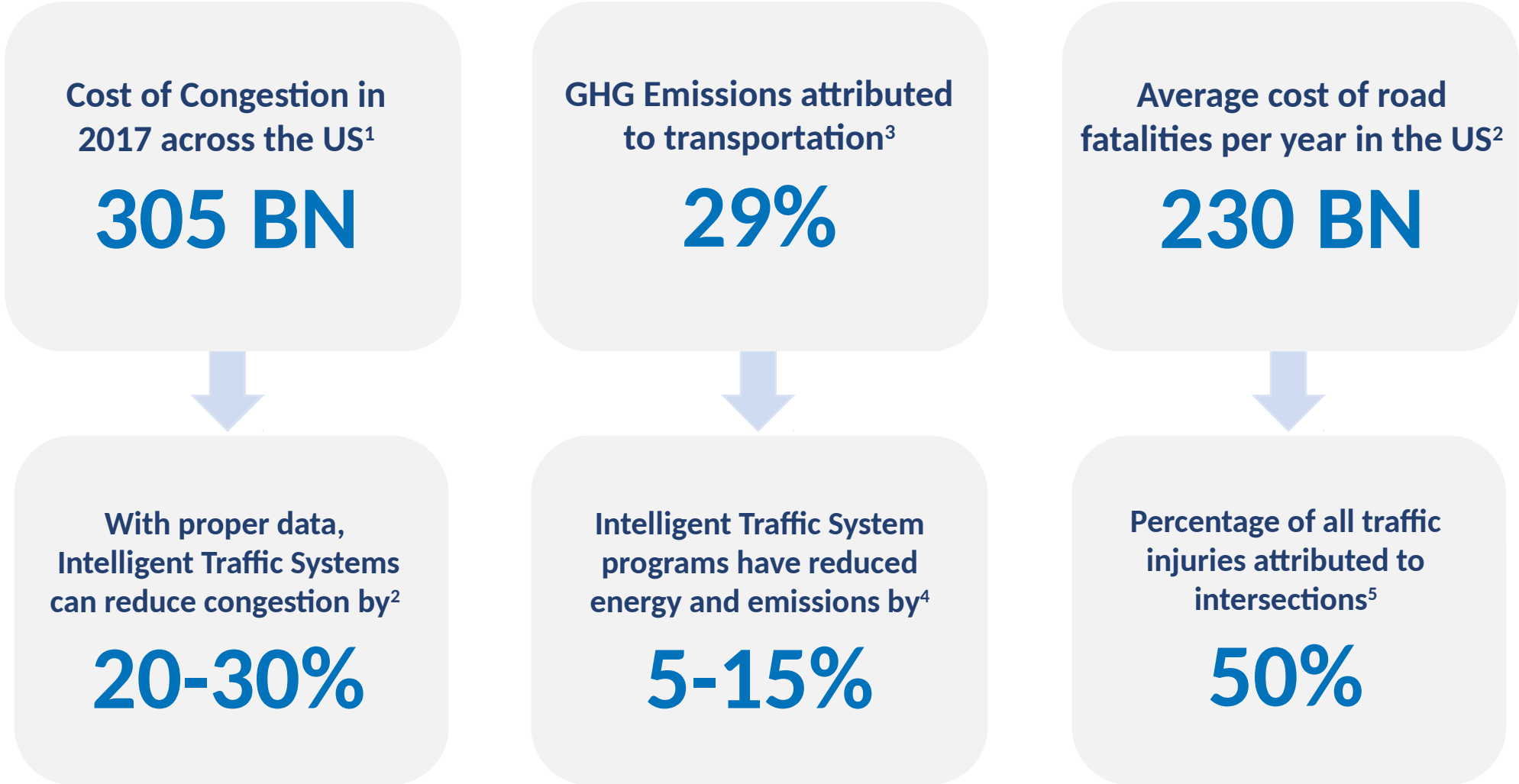
Data can be shared with connected vehicles



Single sensor serves multiple stakeholders



Making the cities safer and efficient



Customers Enjoying Our Technology

Montréal

- 2 pilot locations, paid after 3 months
- Comparing with existing technologies
- Qualification for future tenders



- Secured pilot in California in partnership with AMG, AAA & GoMentum
- To be installed in Q1 2020
- Potential expansion to the cities in their portfolio

Transports Québec

- Secured 2 month pilot
- System will be certified by them for upcoming tender in 2020



- Secured pilot with private partner in China
- Integration with their traffic management system after successful test

COSMOS

- Secured pilot in New York City with COSMOS labs
- To be installed in Q2 2020

- Pilots through distributor, Dataplex, with City of Melbourne and AIMS Group
- 2 pilots secured with City of Sydney and Roads and Maritime Services (RMS)
- 27 countries using RMS traffic management system will be informed of our approval after pilot test

The Blue City Technology Team



Asad Lesani, PhD
Co-founder, CEO

Ph.D. Transportation Engineering,
10 years experience in ITS, 4 years Project
Management experience



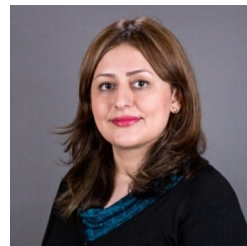
Ian Boyd, MEng
Co-Founder, CTO

M.Eng. Candidate Transportation
Engineering, B.Eng. Electrical, Experience
in SW dev and Applied AI



Ting Fu, PhD
Co-founder, CSO

Assistant Professor, Tongji University; Ph.D.
Transportation Eng.; connections in industry &
gov. in China, Entrepreneurship experience



Marzieh Amini, Data Scientist

Ph.D. Computer Science,
broad experience in Lidar based
machine vision and AI



Mohammad Nazemi, Developer

M.Eng. candidate Computer Science
6 years experience in software
development and e-commerce

Mentors



David Dufresne
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