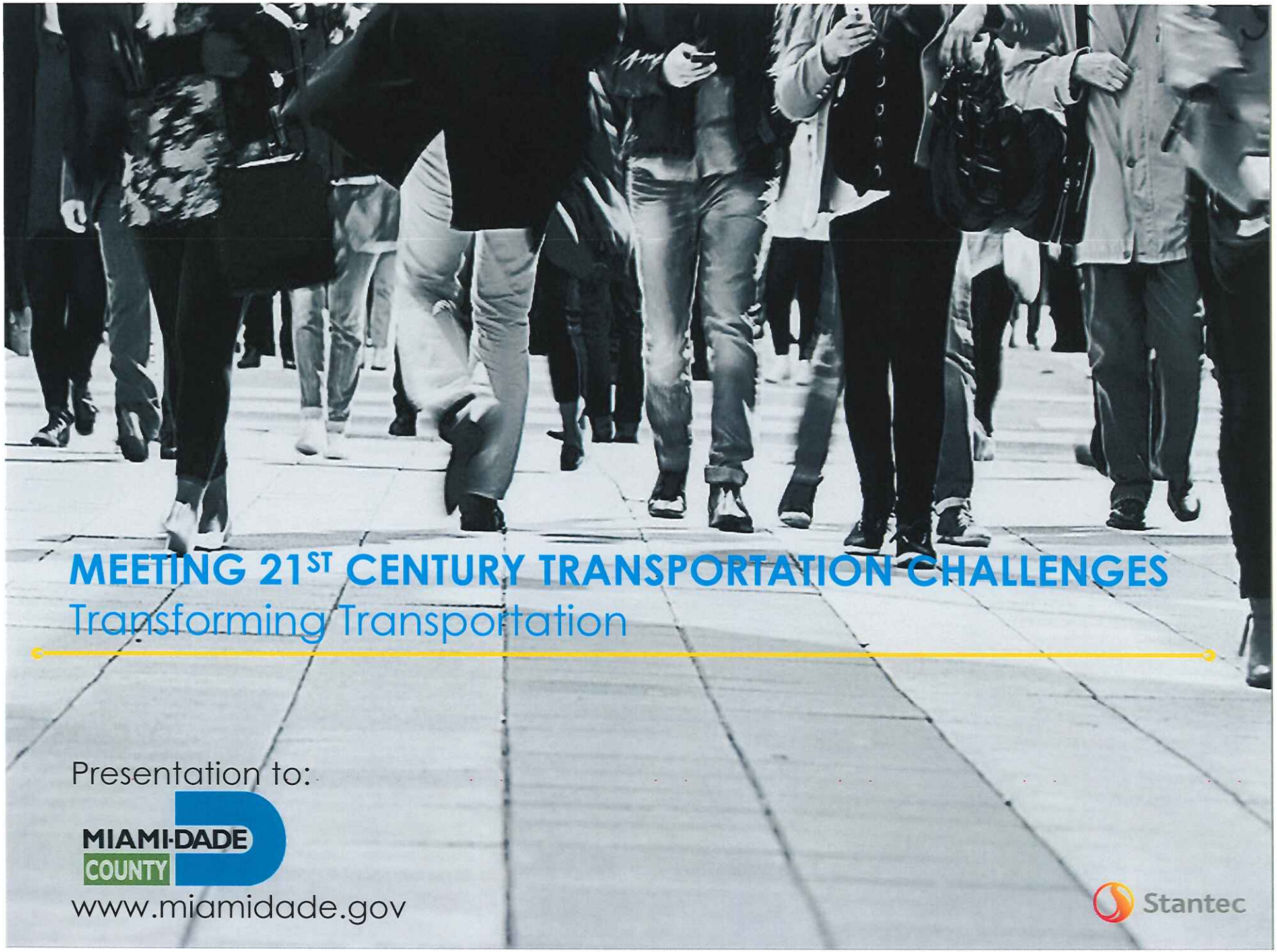
Departmental Report for:
Reporting Period
April 2016

MEETING 21ST CENTURY
TRANSPORTATION CHALLENGES
(TRANSFORMING TRANSPORTATION)



MEETING 21ST CENTURY TRANSPORTATION CHALLENGES

Transforming Transportation

Presentation to:

MIAMI-DADE COUNTY

www.miamidade.gov

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Improving MIAMI DADE??

- Reduce Costs?
- Improve Ridership?
- Improve Safety?
- Improve and Expand Service?
- Reduce GHG?
- Encourage TOD?

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HOW?

- Embrace the New Era of Transit:
  - First Mile / Last Mile
  - Ride Share Technology
  - Pilot Projects – manage engagement
  - Trusted Advisor

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First Mile / Last Mile

- Autonomous Shuttles
  - Procurement Strategy
  - Most advanced manufacturer is EasyMile

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Who is EasyMile?

Joint Venture to gather the **complementary skills** of two cutting-edge companies involved for many years in the **automotive industry** (Ligier) and **autonomous technologies & robotics** (Robosoft).

Founded July, 2014

robosoft
Driverless solutions

30 years of expertise in the field of Robotics. Leader in automated transportation of people and goods with 2 million users for Robosoft driverless vehicles.

LIGIER

Largest European manufacturer of lightweight cars. Ligier has proven design and production capabilities for a series of special electric vehicles.

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EasyMile 2015

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Robosoft since 1985

robosoft
Driverless solutions

People movers in operation

Research and Experimentations

Vulcania park since 2008, 100 000 persons transported yearly

Simserhoff park since 2002, 40 000 persons transported yearly

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EasyMile 2015

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Ligier since 1971

From Sport cars...

1971-1975
Ligier JS-2

...To Lightweight vehicles

2015: 10,000
electric vehicles
yearly

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EZ10 BY EasyMile

The EZ10 is a driverless electric vehicle that can carry up to 12 people (6 seats and 6 standing positions) and is accessible to people with disabilities.

The EZ10 moves autonomously combining a hybrid of different location technologies: GPS tracking system, visual guidance, lasers.

It is designed to cover short and predefined routes and requires no infrastructure.

Potential applications

- City Centers
- Rural Areas
- Airports
- Amusement Parks
- Hospitals
- University Campuses
- Industrial Sites

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Roadmap

2016 End of Year / 2017
Commercial product
2 vehicles / week

Q2 2016
Commercial product
20 vehicles

Q1/Q2 2015
First generation
of prototypes
15 vehicles

Assembly Line, Ligier

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First Mile / Last Mile

- Autonomous Shuttles
  - EasyMile has an Exclusive Collaborative Agreement with GoMentum Station
  - GoMentum is the largest test bed in the US
  - GoMentum is in Concord, California – Contra Costa County

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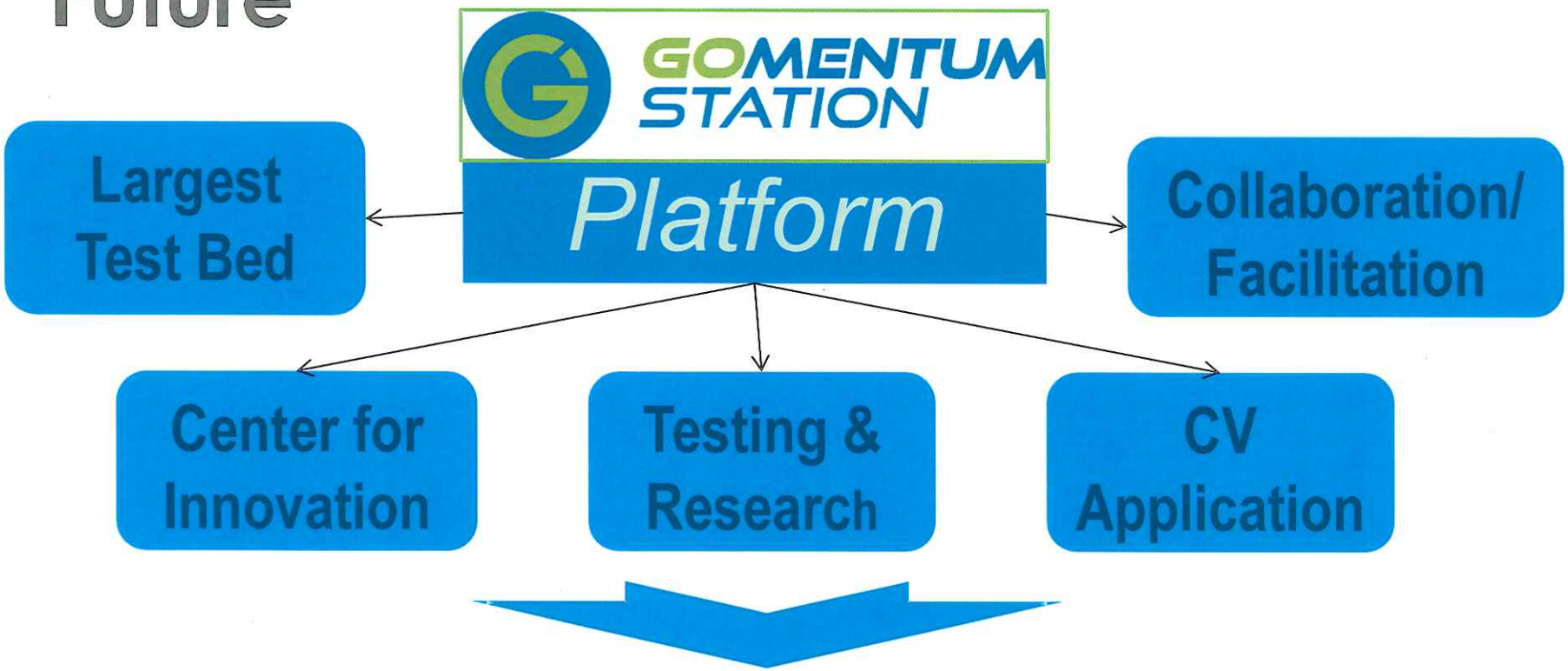
What is GoMentum Station?

A Platform for Transforming the Future



Redefining Mobility

...while addressing the real congestion/safety need of Contra Costa County

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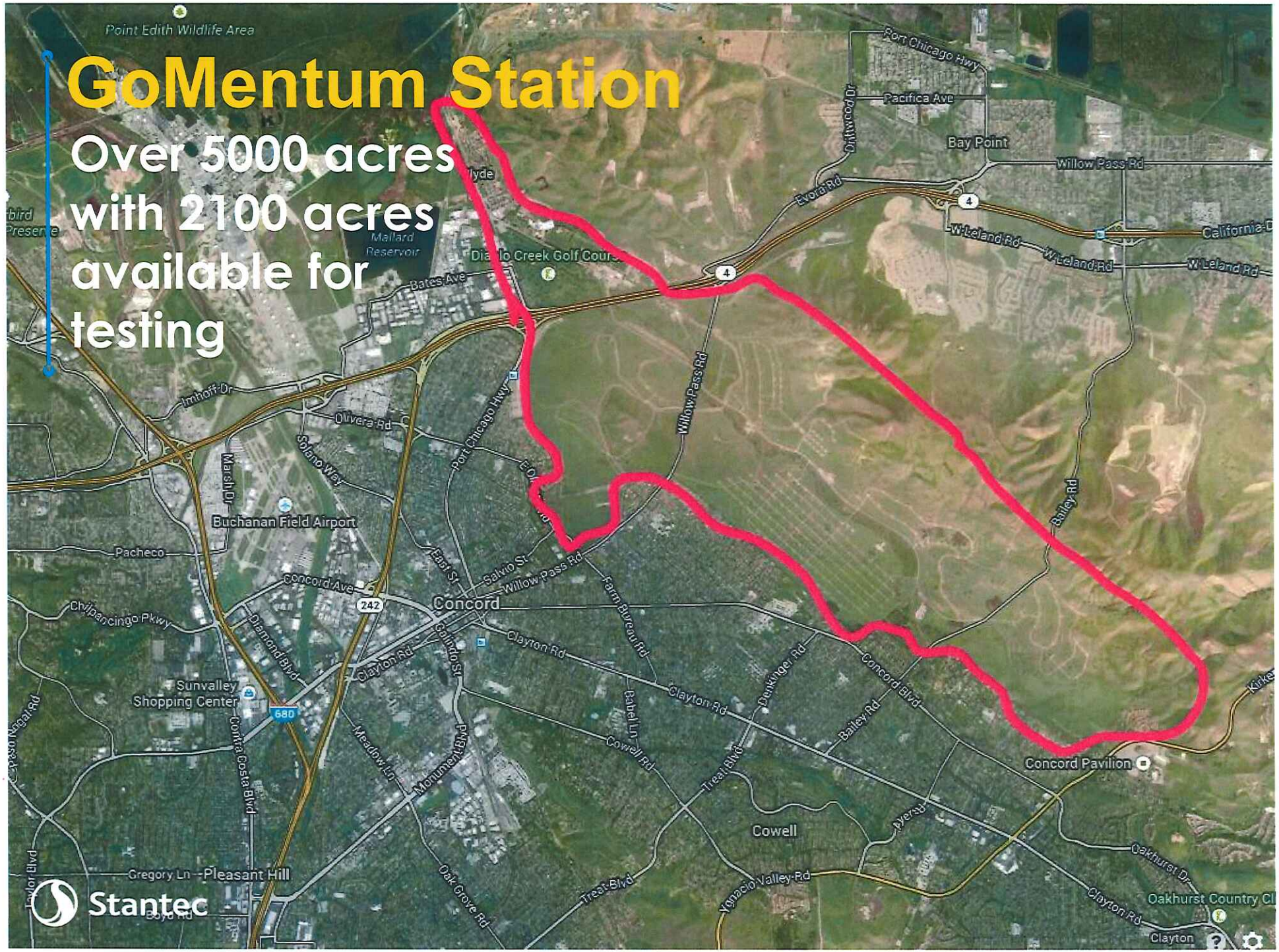
GoMentum Station

Over 5000 acres with 2100 acres available for testing



Over 20 miles of paved roadways including a 7-mile long spine road for high speed testing
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GoMentum Station Partner Ecosystem

OEMs & Automakers	Tier 1 Suppliers	REVs	Public Sector	Technology & Communications
Insurance Carriers	Analytics	Research Institutes	Associated Test Beds	Other Entities

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First Mile / Last Mile

- Autonomous Shuttles
  - GoMentum partnered with Bishop Ranch – San Ramon, California to be the first deployment of Autonomous Shuttles in the US

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Rideshare Technology

- On Demand Transit Service
  - VTA Flex – Santa Clara, California
  - RideCell – supports VTA Flex
  - SW Prime – Eden Prairie, Minnesota
  - RideCell – supports SW Prime
  - Uber – you know well

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Pilot Projects

- Autonomous Shuttles
- Rideshare Technology
- Data – Marketing / Revenue

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Smart Communities

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Pilot Projects

- Autonomous Shuttles
- Rideshare Technology
- Data / Marketing / Revenue

- Knowledgeable Trusted Advisor
- **Stantec**

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- We have been the Program Managers for GoMentum since inception.
- We have strong working relationships with Silicon Valley Experts.
- We know USDOT – continental interoperability.

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- We know Connected Vehicles – Active Aurora Testbed in Edmonton, Alberta, Canada.
- We have hands on experience in Roadside Sensor Design and Installations including DSRC.
- We have hands on experience in Pedestrian Detection and Advanced Driver Warning Technology.

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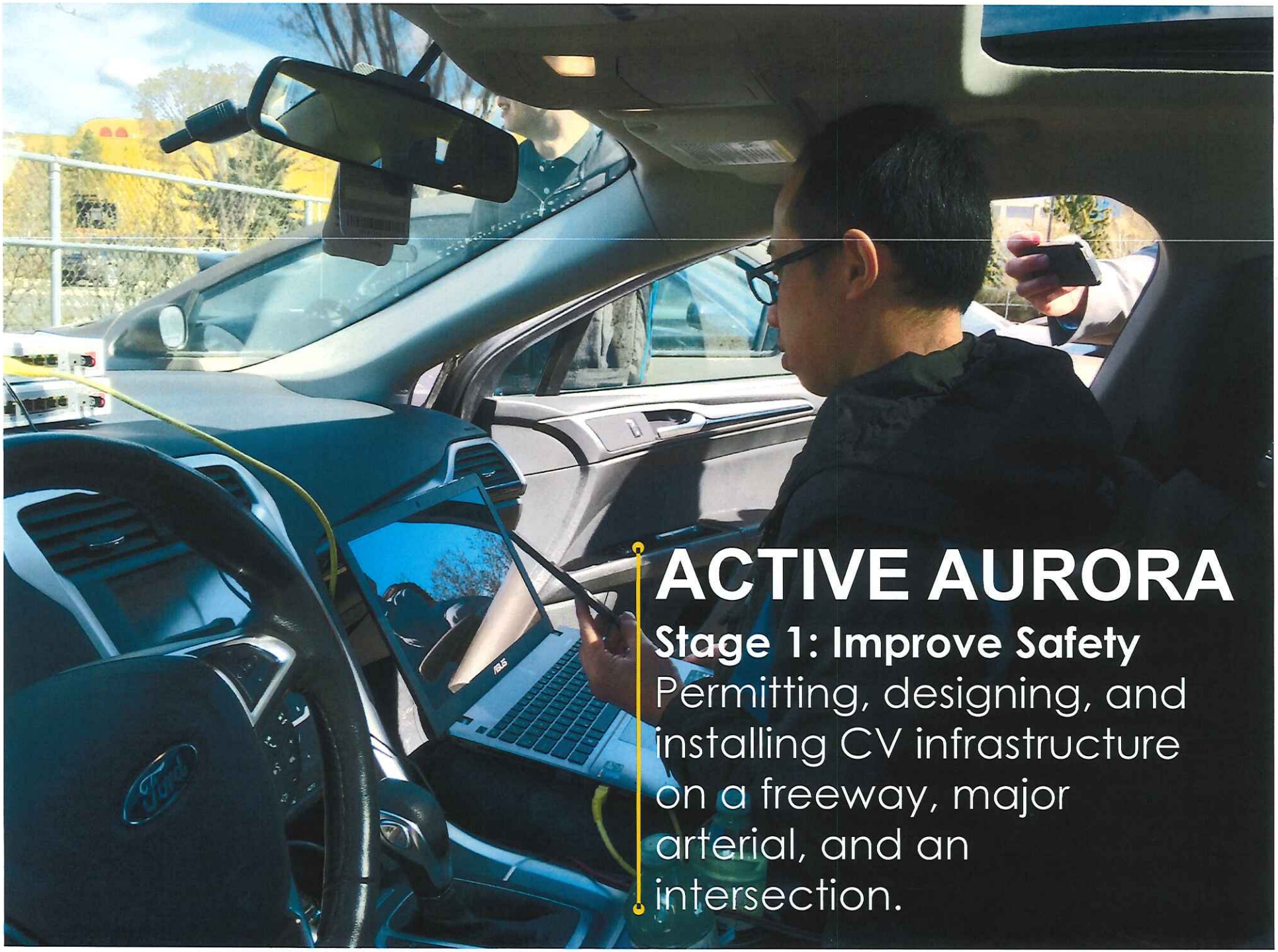
ACTIVE AURORA

Testing CAV systems, technologies, applications and services for traffic, transit, goods movement and active transportation.



ACTIVE AURORA

Stage 1: Improve Safety

Permitting, designing, and installing CV infrastructure on a freeway, major arterial, and an intersection.

DIFFICULTY NAVIGATING IN SNOW

WHAT ARE THE CHALLENGES?

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- Founded in 1954 from Harvard Graduate Dr. Don Stanley
- 2,400 Transportation Professionals
- 22,000 Employees
- > 400 Locations
- 6 continents

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- How can we help you?????

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Questions??

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