



AV/CV Around the World

SACOG
May 2018

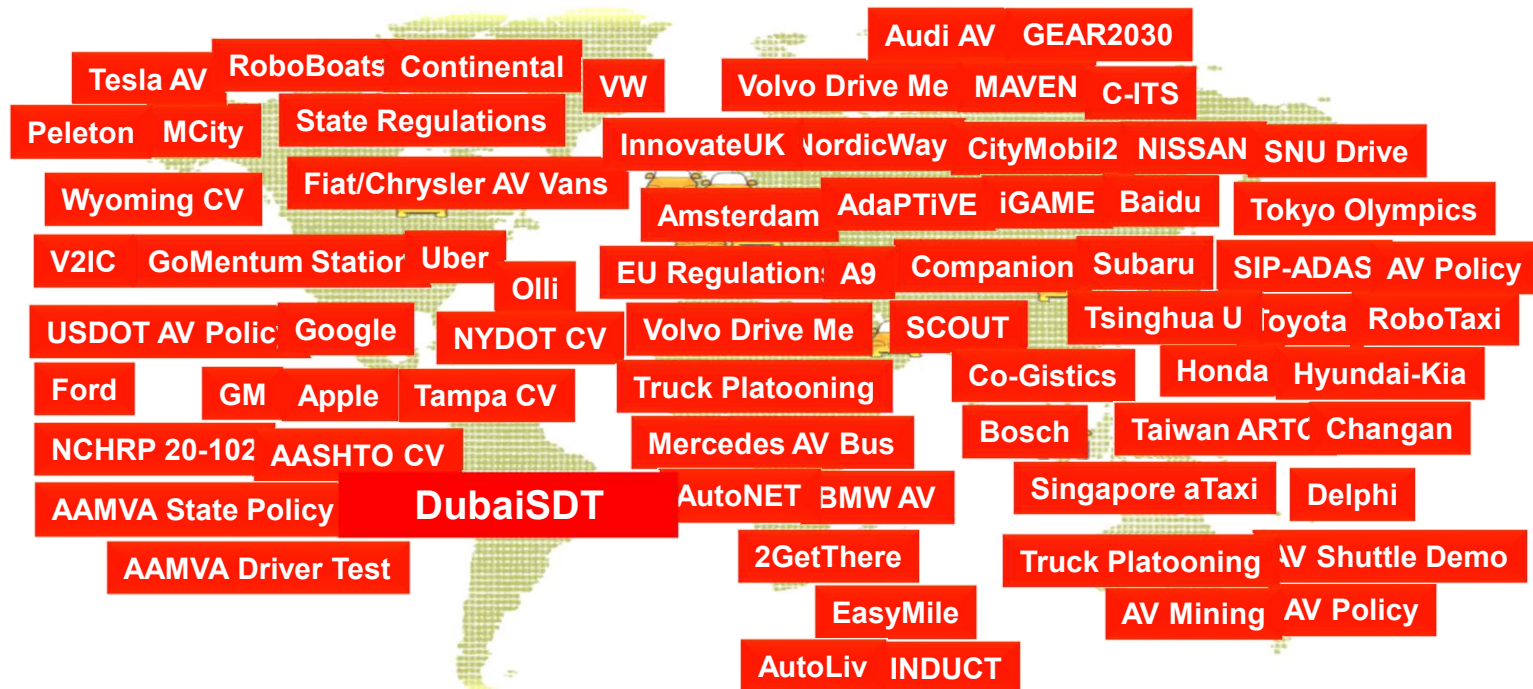
Douglas Gettman,
Ph.D.

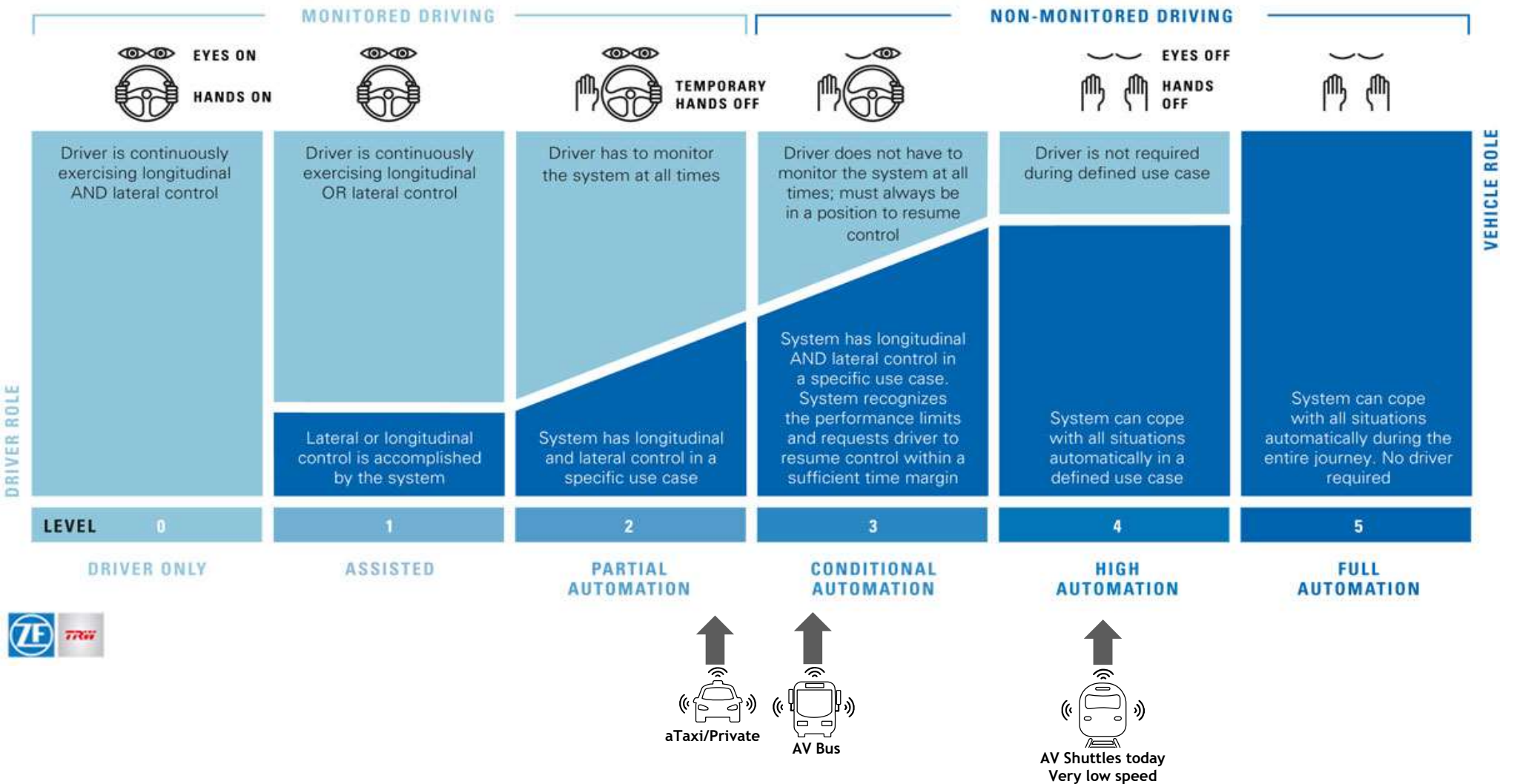
Kimley»Horn
Expect More. Experience Better.

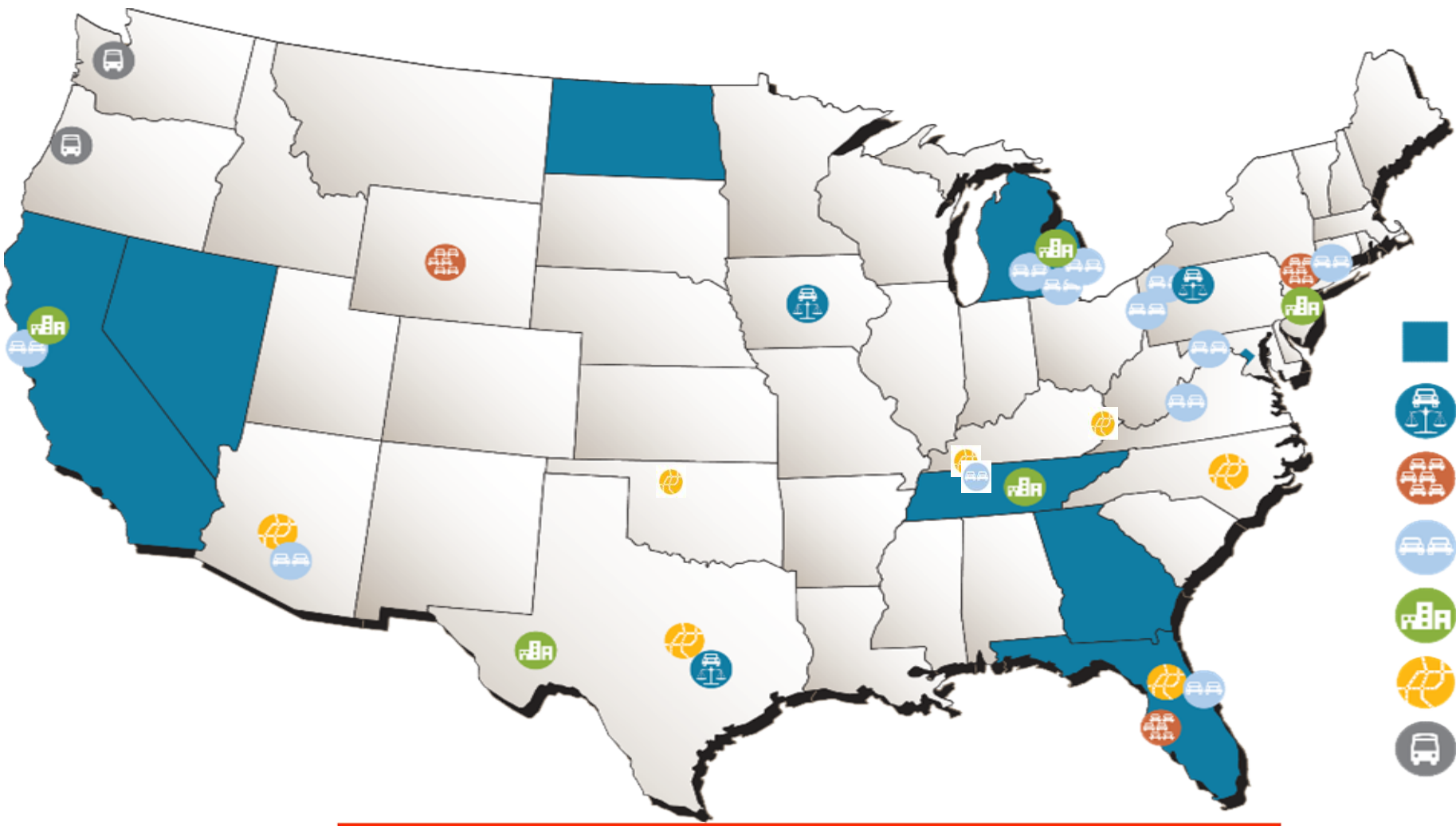
 **KADENCE**
Software Solutions.



INTERNATIONAL BENCHMARK



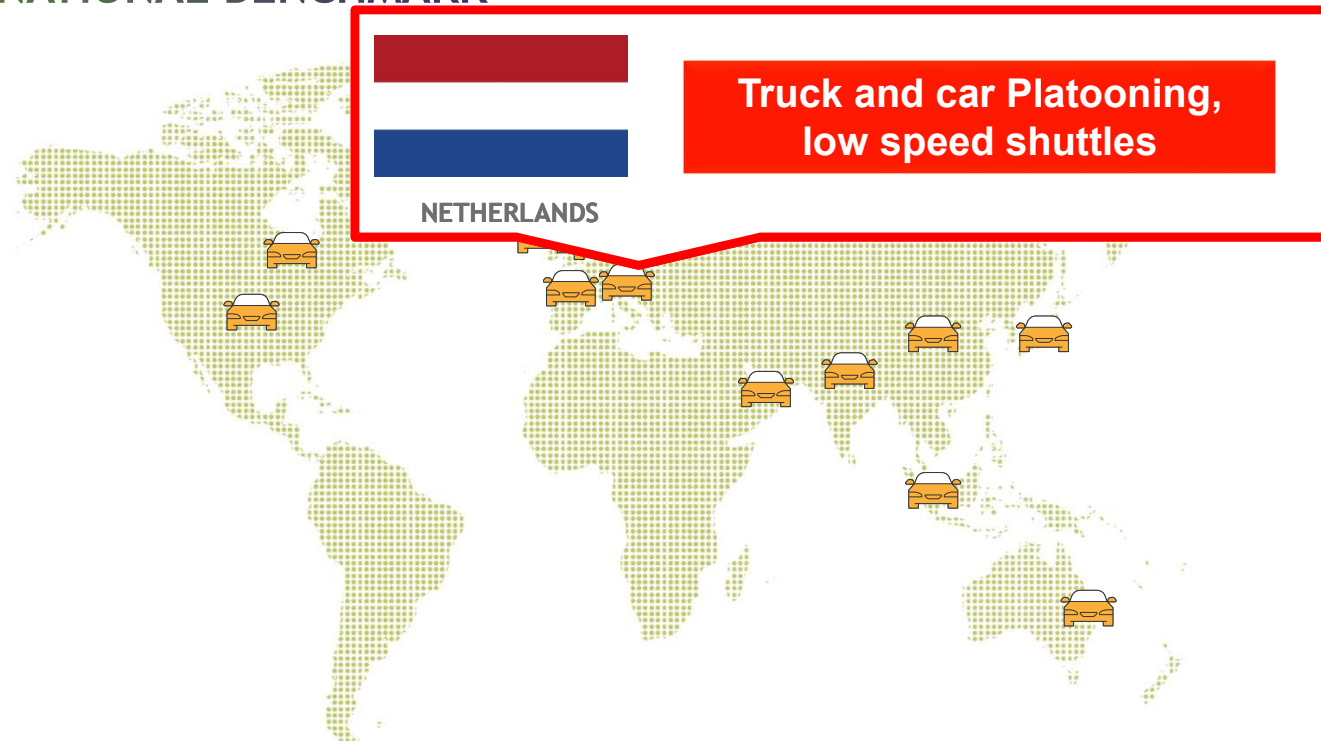




- AV Testing Legal (state)
- AV Testing Legal (city)
- Connected Vehicle Pilot
- Connected Vehicle Testbed
- AV Testing Facility
- AV Plan Underway
- AV/CV Transit

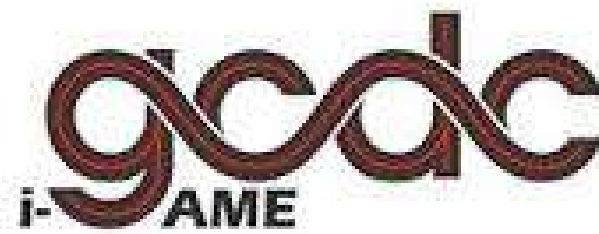
USDOT demos, Uber, Google, Patchwork laws/policies, Smart Cities

INTERNATIONAL BENCHMARK





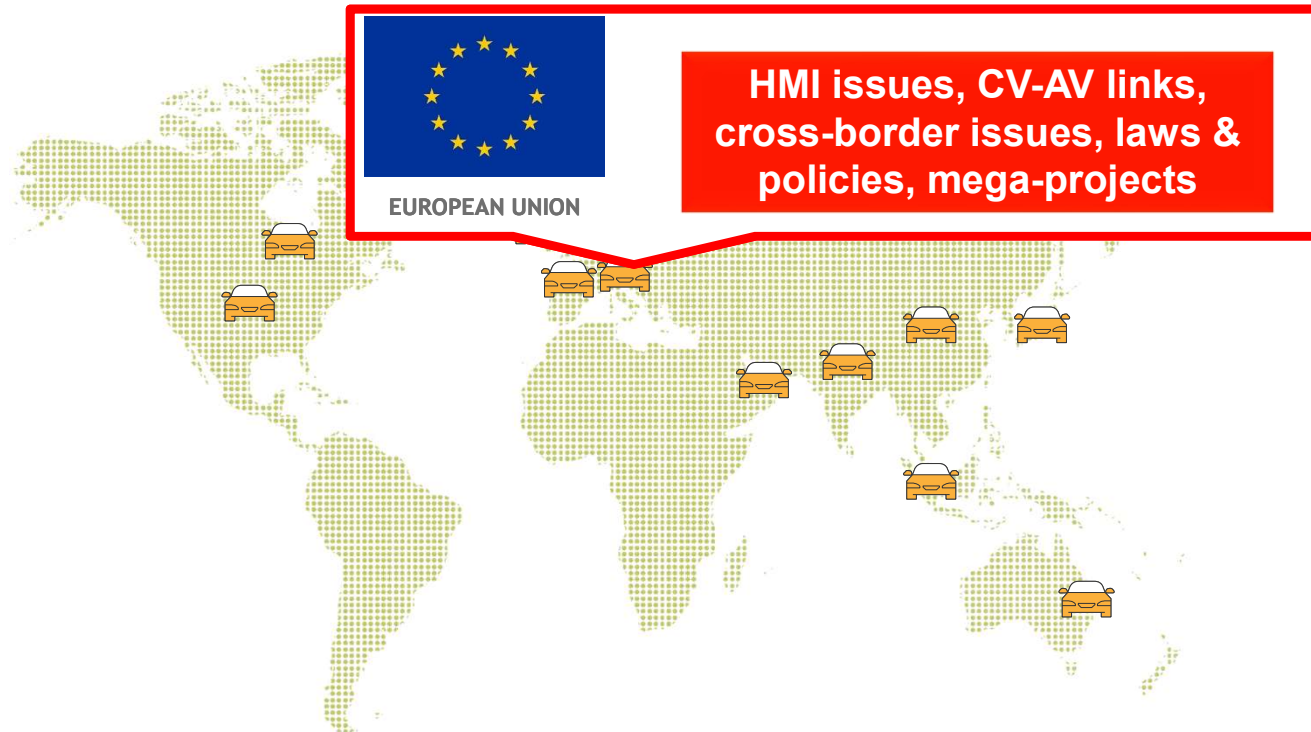


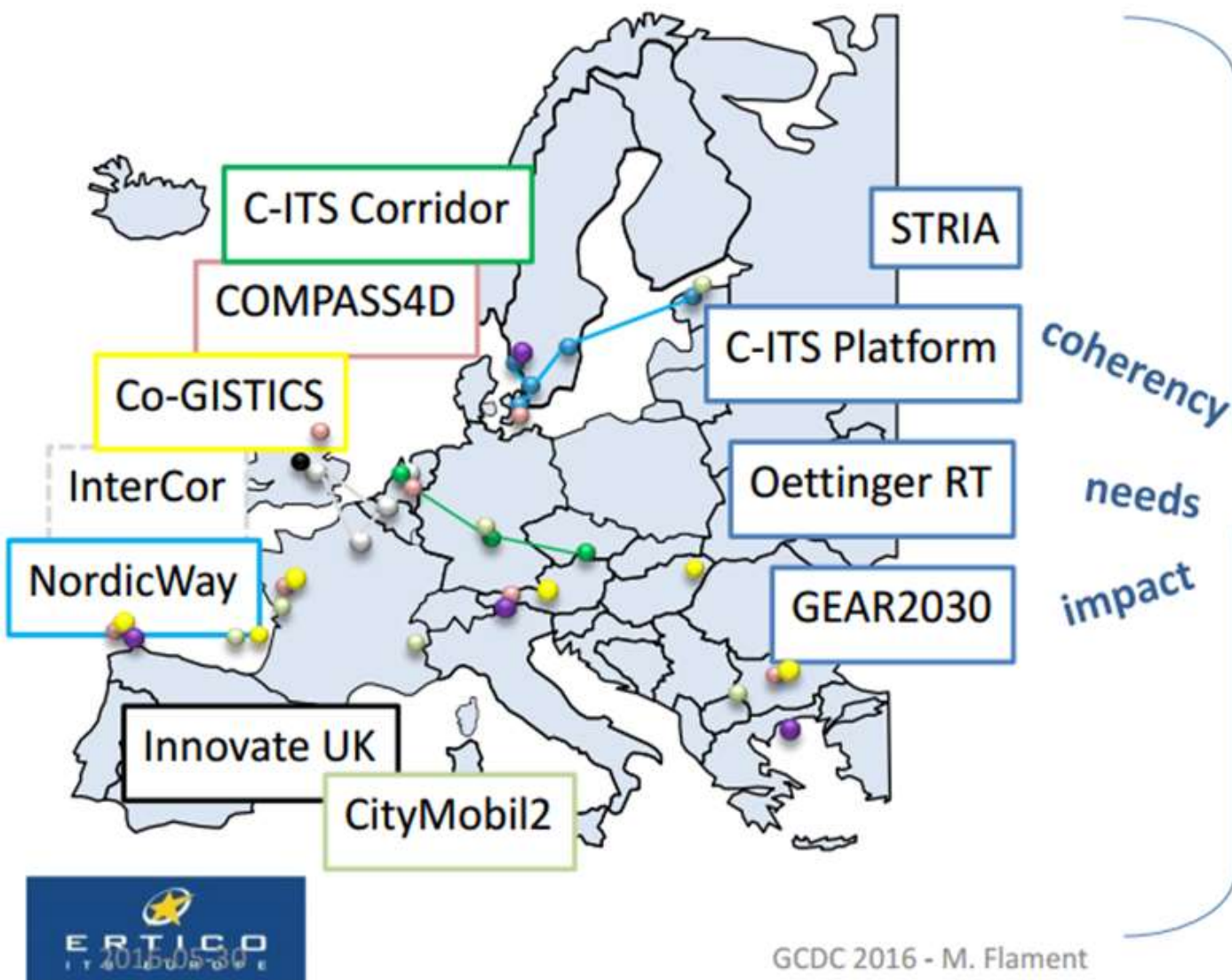


Saturday

May 28th, 2016

INTERNATIONAL BENCHMARK





Large scale
deployment pilot
on automated and
connected vehicles



Declaration of Amsterdam

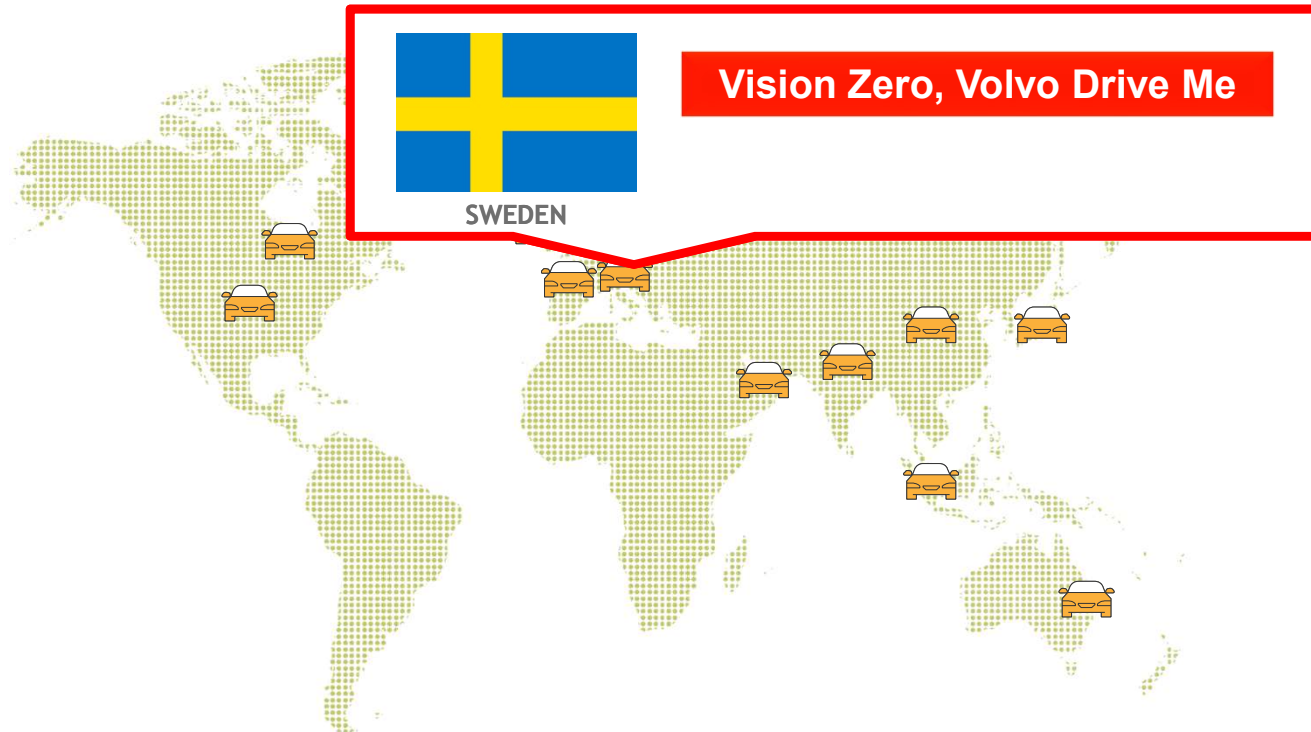
Cooperation in the field of connected and automated driving

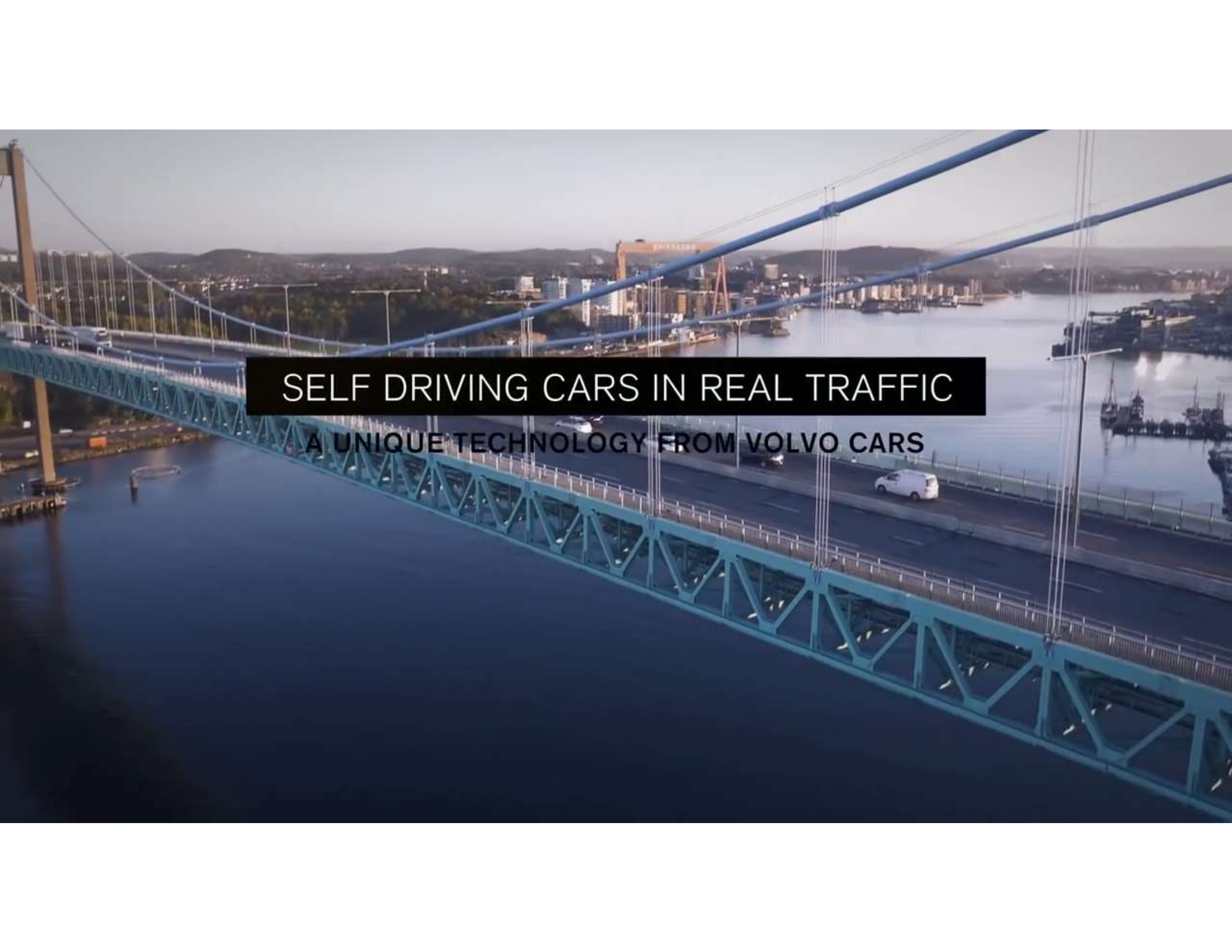
14-15 April 2016

EU
2016



INTERNATIONAL BENCHMARK



An aerial photograph of a large suspension bridge with a teal-colored steel truss structure, spanning a wide body of water. The bridge has multiple lanes of traffic, with a white van visible in the foreground. In the background, a city skyline is visible across the water, featuring various buildings and a large orange crane. The sky is clear and blue.

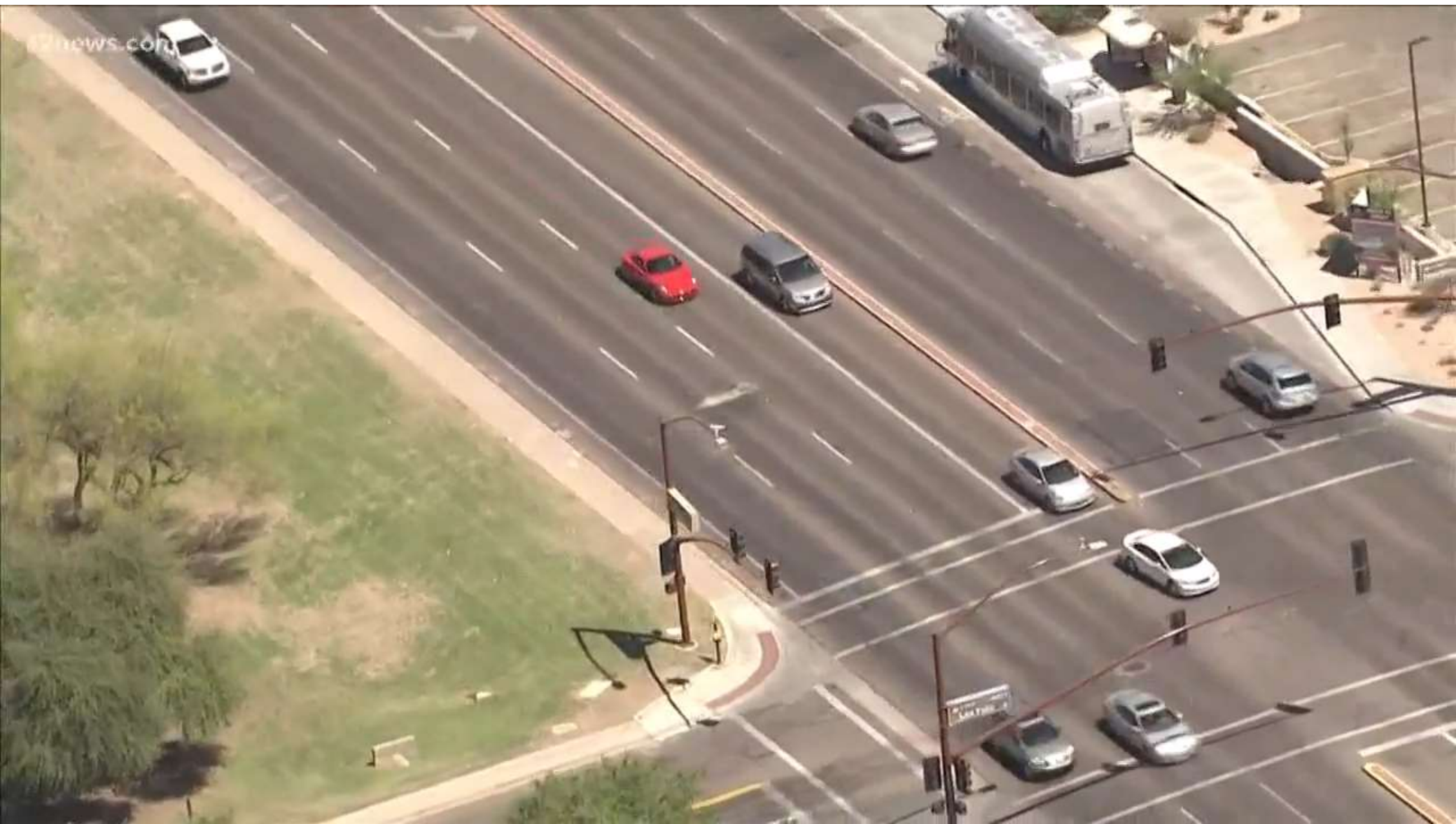
SELF DRIVING CARS IN REAL TRAFFIC

A UNIQUE TECHNOLOGY FROM VOLVO CARS



12news.com





TOYOTA

Ride Sharing

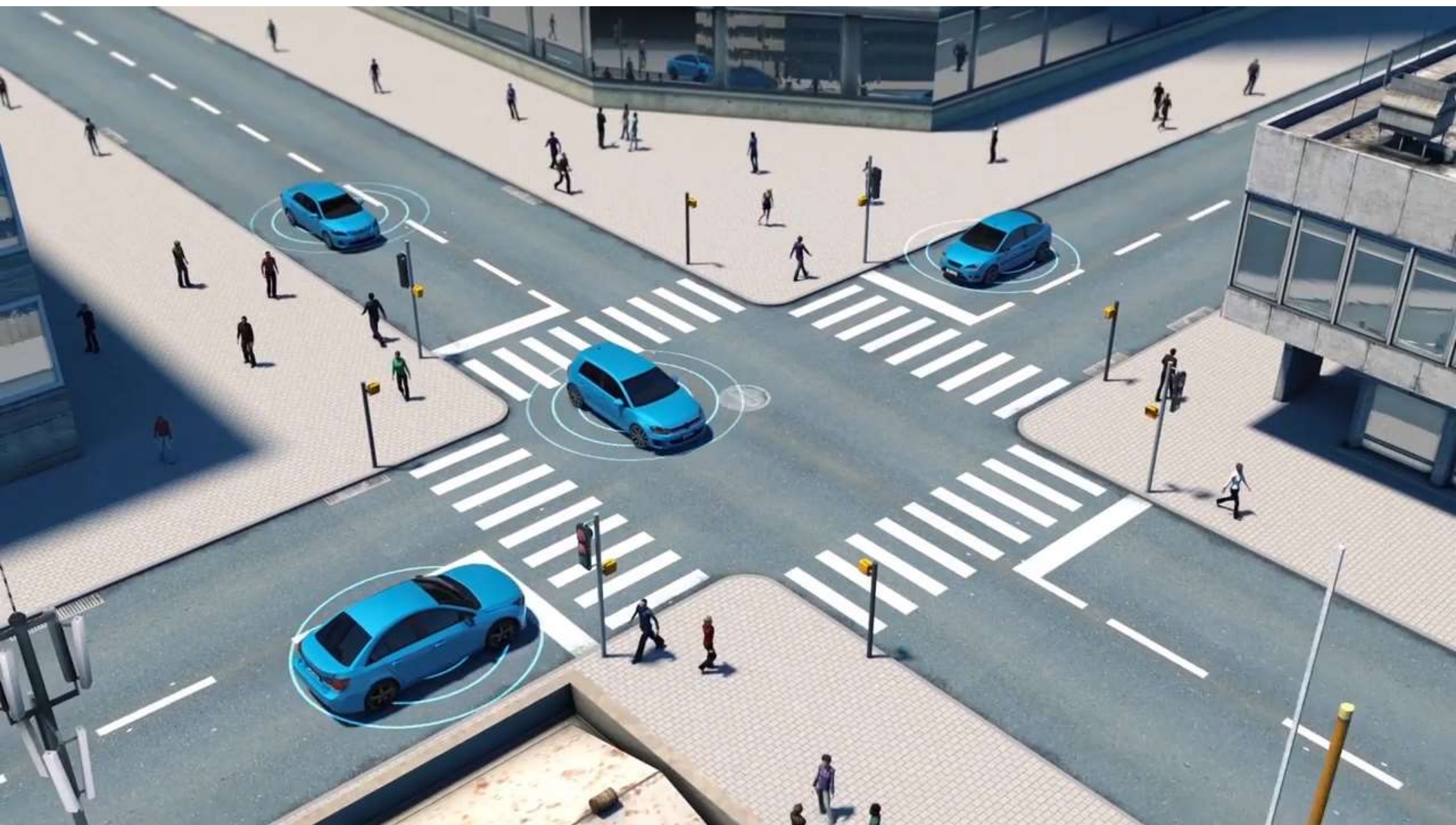
am 07:45





CONNECTED
VEHICLE PILOT
— TAMPA —







RTA Dubai tests the world's
first '**Autonomous Pods**'





**NEW YORK CITY
WCBS**





UBER'S FLIGHT PLAN

CBS NEWS GETS FIRST LOOK AT RIDESHARE'S PLAN TO FLY RIDERS



UBER









Write it down

Date it

Identify obstacles

Partners

Action plan

Time limit

**Benefits
assessment**

A goal without a plan is just a wish.

Antoine de Saint-Exupery

A Vision for the Future of Transport



Reduce transportation costs by 44 percent or AED 900 million, saving AED 1.5 billion through reduction of environmental pollution, and AED 18 billion through raising efficiency of the transport sector by 20 percent.



The Dubai World Challenge for self-driving transport will be the largest international tender for companies and research and development centres to implement scenarios and applications of this technology on Dubai roads.



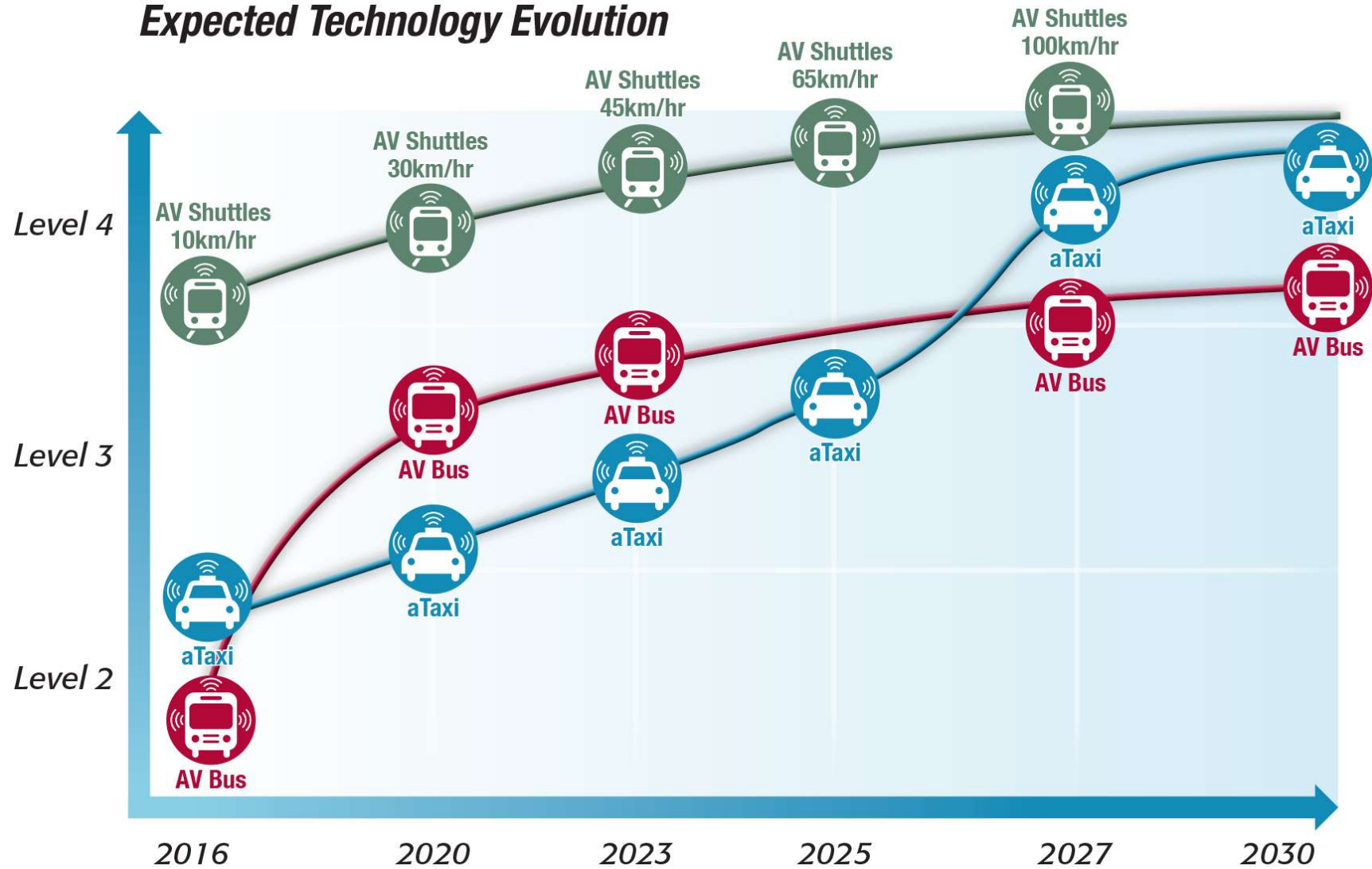
By 2030, 25 percent of all transportation **TRIPS** in Dubai will be smart and driverless. The strategy is projected to generate economic revenues and savings of up to AED 22 billion a year.

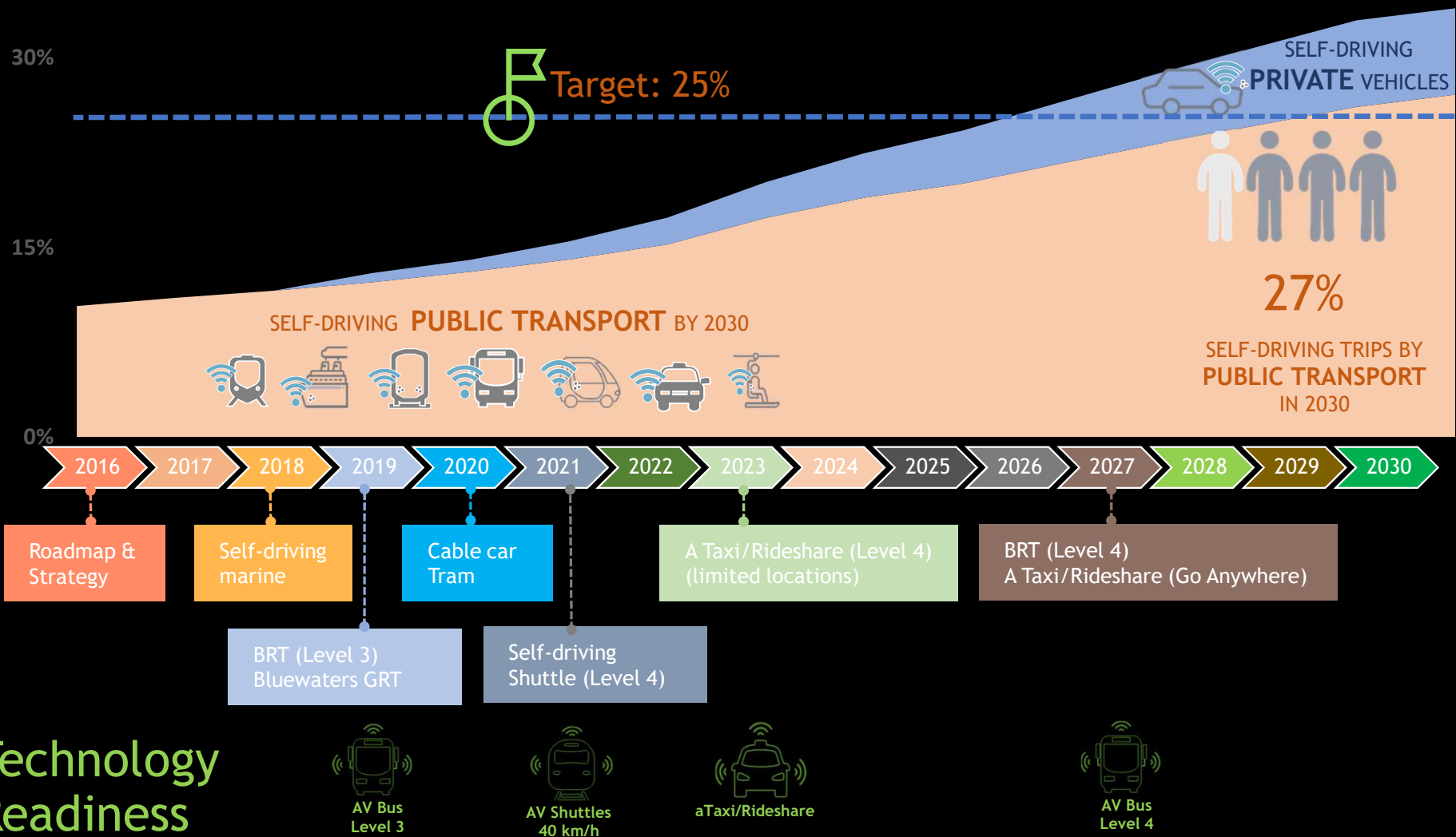
- His Highness Sheikh Mohammad Bin Rashid Al Maktoum,
Vice President and Prime Minister of the UAE and Ruler of Dubai

DUBAI SELF DRIVING TRANSPORT STRATEGY



Expected Technology Evolution

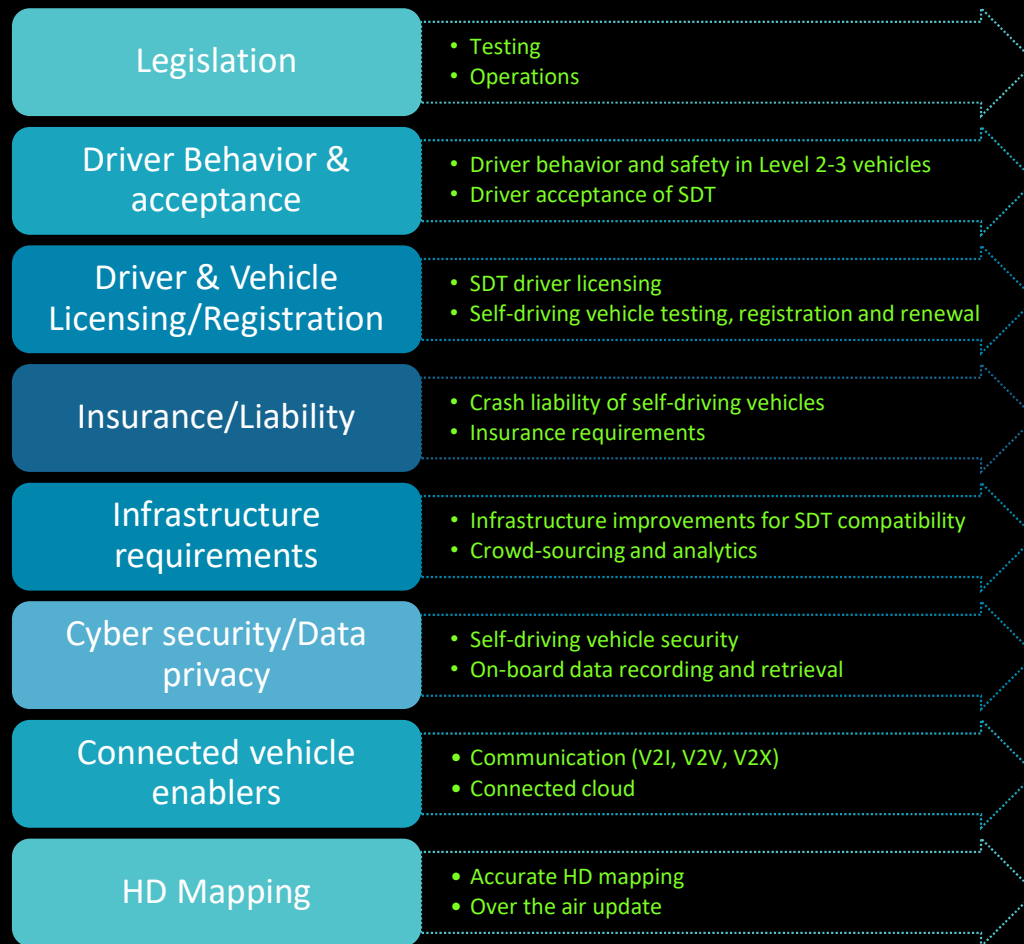




“Working backwards” from a tangible goal is a feasible strategy for long range planning under uncertainty.

Particularly when supply-side models for AV (and traveler choice assumptions) are hard to come by.

Agency Capability Maturity Dimensions Related to AV/CV



Systems and Technology

Collaboration

**Staffing, Organization,
and Culture**

Performance Measures

Business Processes

Manual traffic control



The ability to “take over” control or redirect



Public Acceptance

DRIVE THRU ROBOT DRIVER PRANK



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Gettman, Ph.D.**

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»KITS
Software Solutions.