

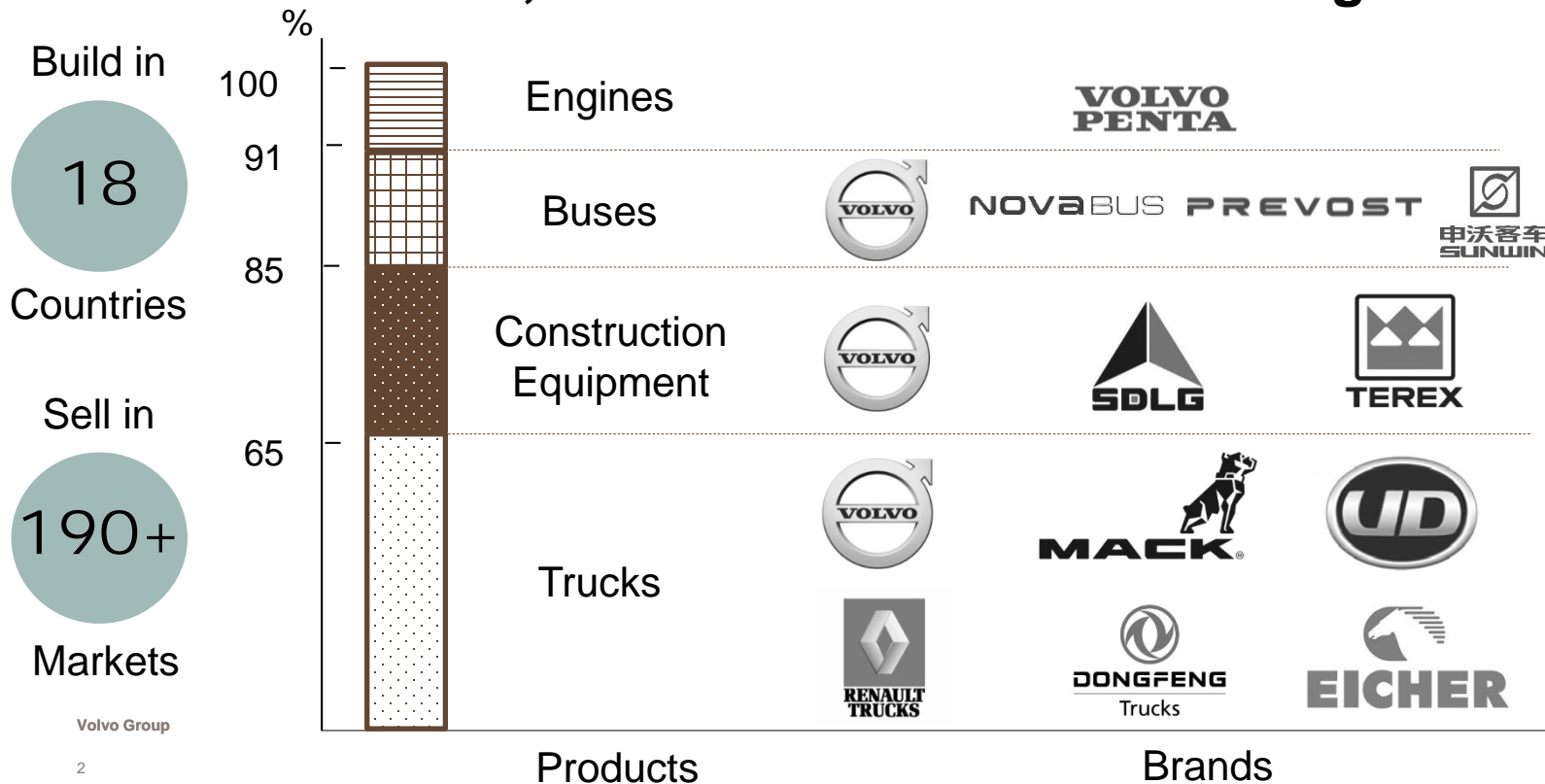


Application Pathways for Connected & Automated Commercial Vehicles

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May 6, 2019

Leading global manufacturer of trucks, buses, construction EQ, and marine and industrial engines



Volvo Group

Connectivity and automated driving will allow for cleaner and safer megacities to grow and prosper



Technology choices are addressed by business needs and operations, and will vary

Automation will redefine the commercial transport solutions that most of us rely on every day



The first autonomous commercial solution



Autonomous bus trial in Singapore



Bleeding-edge innovations

Volvo Group will introduce automated applications gradually over time

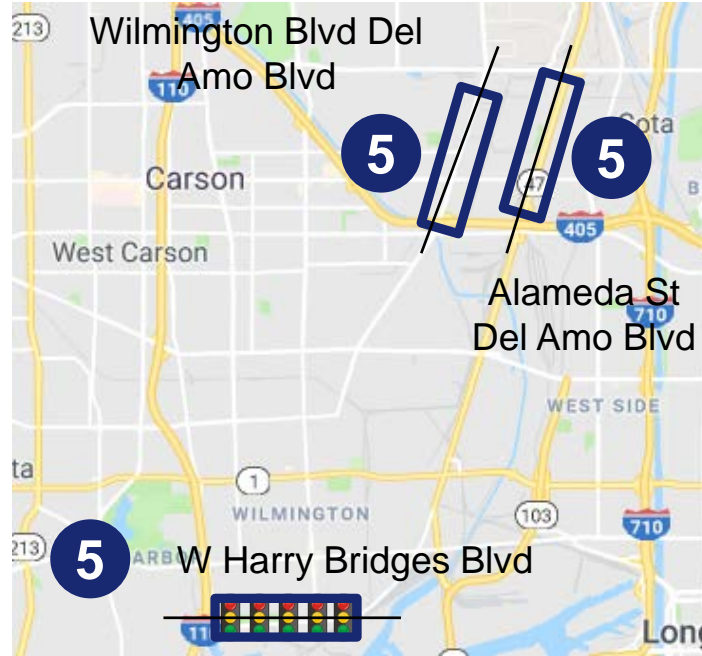
V2X technologies are enablers for increasing transportation safety and efficiency



- Nov 2015 • **First-ever** testing of V2I apps on public roads in Farmington Hills, MI
- Mar 2016 • **First-ever** FHWA V2I demonstration in Fowlerville, MI
- Oct 2016 • Testing on public roads and live work zones in MI
- Jan 2017 • **First-ever** V2I demonstration in Washington, DC
- Sep 2017 • **Seminal** efforts for standardization and harmonization of V2I across US - in MI, TX, AZ, CA, ...



Created a regional partnership to assess air quality improvements near the ports using V2X technologies



An aerial photograph of a rural landscape at sunset. The sun is low on the horizon, casting a warm, golden glow across the sky and the fields. A road curves through the landscape, bordered by trees and fields. The sky is filled with soft, white clouds. The overall scene is peaceful and scenic.

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