

Leading the Transition to a Hyrogen Society

September 18th, 2017

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Toyota Motor North America

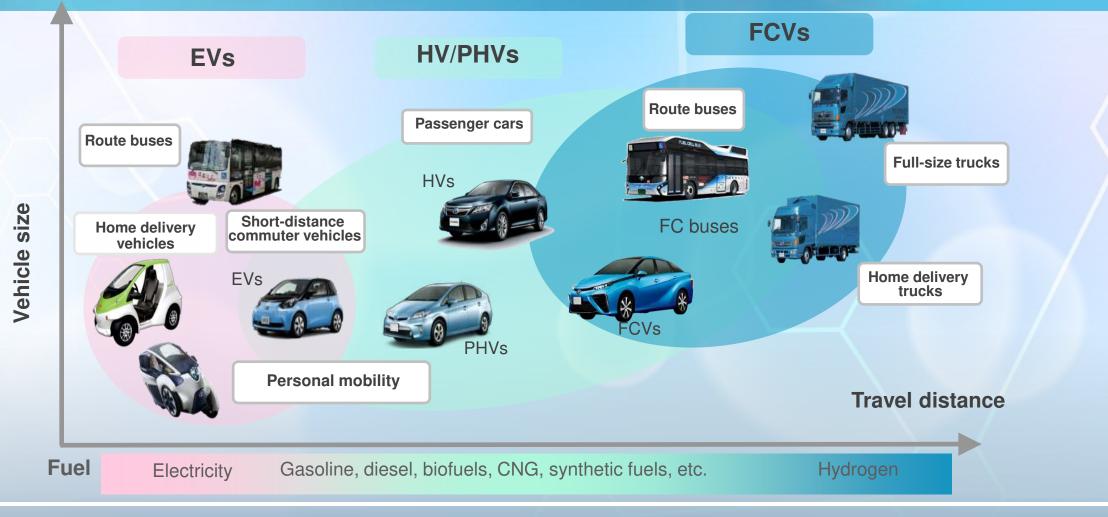


The Toyota Environmental Challenge 2050 is our North Star





A Portfolio of Powertrains are required to achieve the CO₂ Reduction Challenge...with sales based on Customer Needs



The advantages of FCV are undeniable

- -**GH**₂ 350bar 3-5 min refueling Fun to drive with sobal powerful acceleration 312 miles* range Smooth, quiet driving ANT -**Zero tailpipe CO**₂ (Electric motor) emissions Wasserstoff MIRAI - 1



*EPA Tested

Toyota Mirai deployment Status





United States

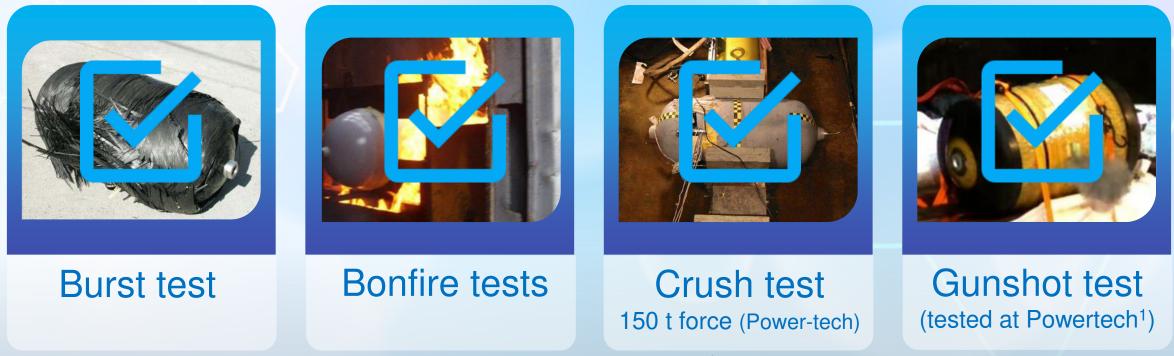
- ✓ Introduced in October of 2015
- Approaching 2000 unit sold or leased to date in California
- Will begin sales in Northeast U.S. in
 2018

Toyota ensures safety on board

Toyota FC stack Hydrogen sensors Provide warnings and can shut Steel frame and aircraft grade off tank main stop valves fibre-reinforced plastic used in protect the FC Stack High pressure Hydrogen tank Made from reinforced carbon Impact safety of the highest quality structure Protects the FC Stack and Hydrogen tanks in the event of Hydrogen related parts an accident Located outside the cabin.

H2 tanks pass extremely demanding testing

Tank designers and inspectors run a multitude of tests in laboratories to ensure safety



¹Armour-piercing 7mm test according to UN Technical Regulation

• Mirai complies with all U.S. and international vehicle safety standards

FC system costs have been reduced significantly and efforts are ongoing for further gains

Fuel cell system costs have been reduced significantly and cost reduction efforts are ongoing



Toyota is looking beyond just the Mirai...





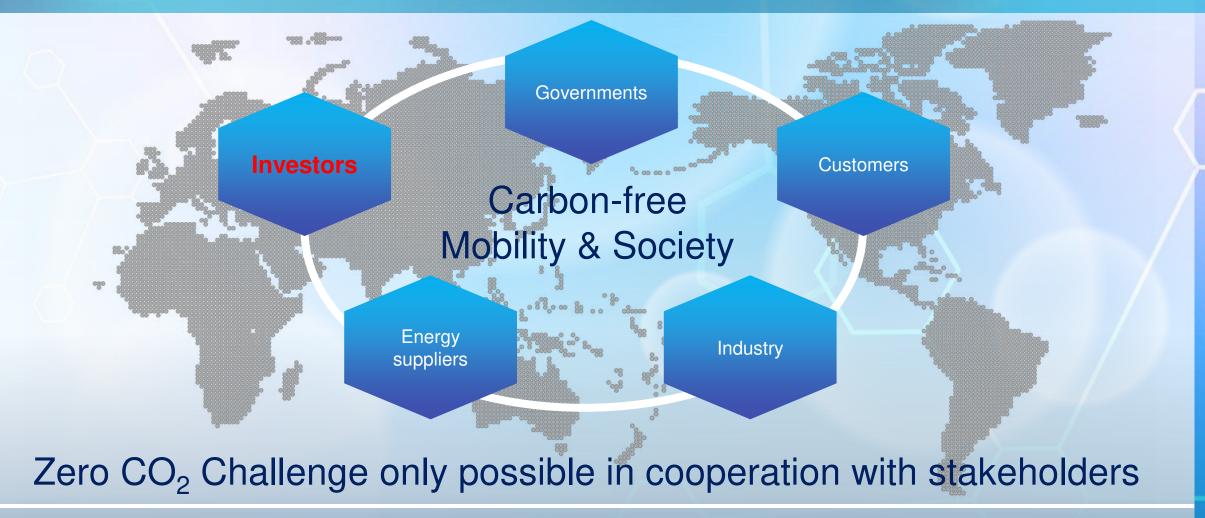
FC Heavy-Duty Truck (dreyage)







Cooperation to create a Hydrogen Society



TOYOTA



THANK YOU

