

California
FUEL CELL
PARTNERSHIP



DRIVING FOR THE FUTURE



On the Road to Commercial

Catherine Dunwoody





3300

2000
California
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Daimler



Nissan



GM



Ford



Honda



Santa Clara VTA



Volkswagen



Toyota



Hyundai



Audi



NAC/GM



UTC/AC Transit







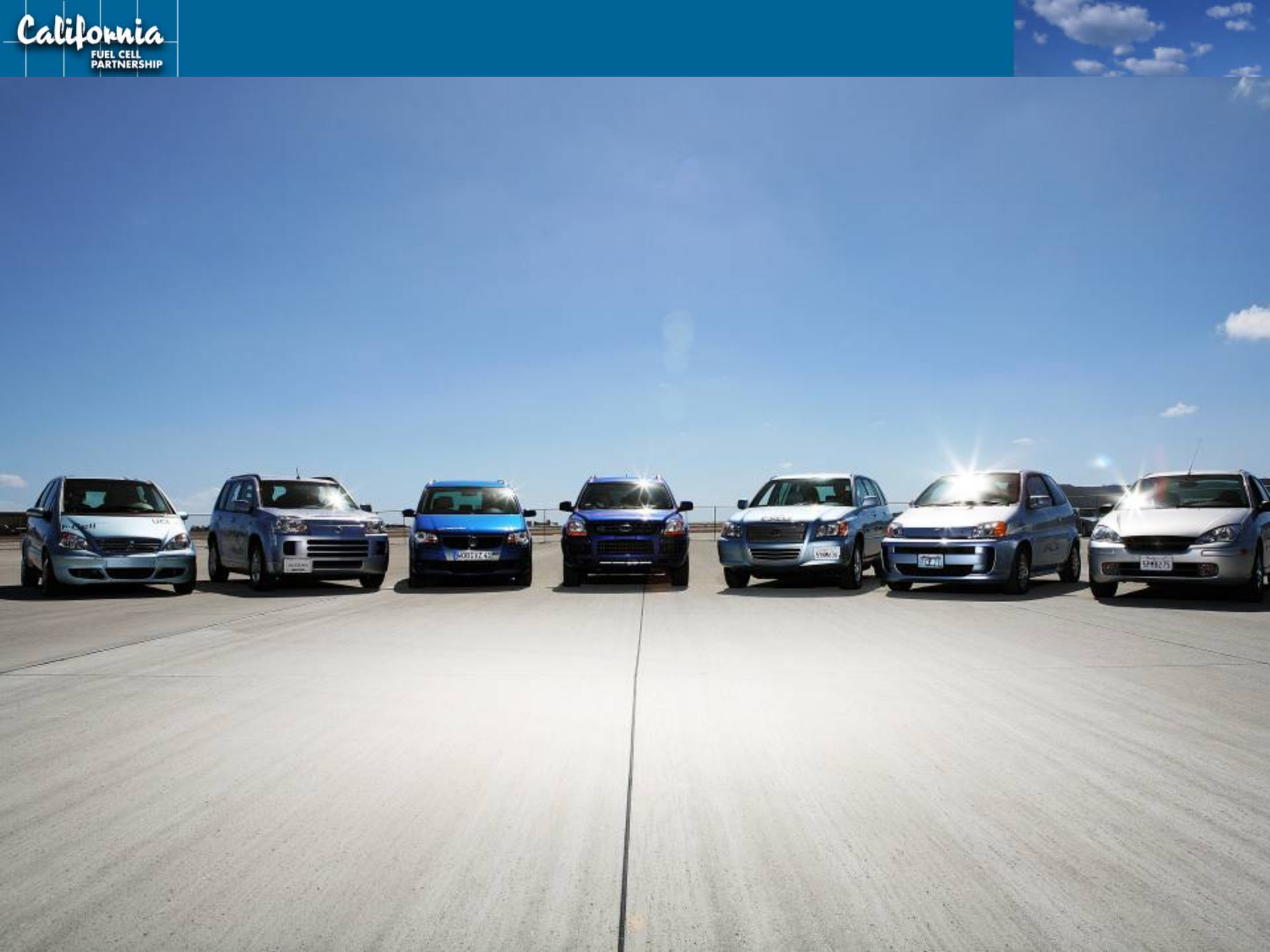










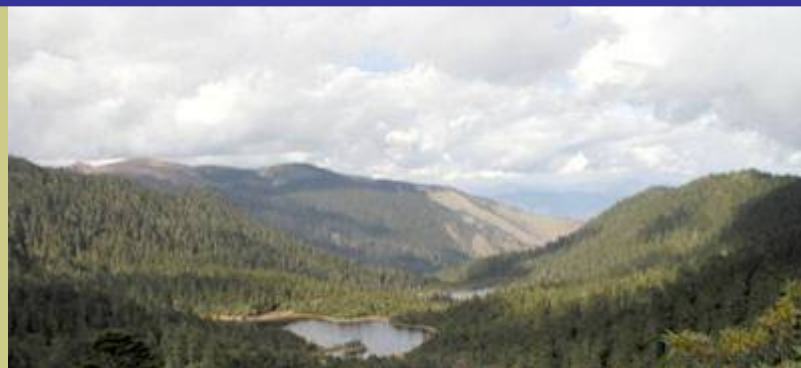




Air quality



Global warming



Petroleum dependency







hydrogen: a universal fuel

10 things to remember about hydrogen

1. Did you know that the world produces enough hydrogen right now to fuel 130 million fuel cell-electric vehicles (FCEVs)? More than 40 billion kilograms of hydrogen are produced globally each year (the equivalent of 40 billion gallons of gasoline).
2. 53% of the hydrogen produced in the U.S. is already dedicated to transportation. It's used to make gasoline cleaner by removing sulfur from petroleum at refineries.
3. A large hydrogen production site exists today near almost every major U.S. and European city. [View a map of U.S. sites](#) (228Kb PDF)
4. Hydrogen can be affordable with today's technology. If we use current technology to make hydrogen, it can cost the equivalent of \$3 to \$6 per gallon of gasoline at the pump, not including taxes. Hydrogen can be delivered at the pump within this equivalent price range when made from natural gas, water (using electricity from wind), plants and coal. (This assumes that a fuel cell is twice as efficient than a gasoline engine.)
5. The U.S. Department of Energy's target for total hydrogen cost is \$2.00 - \$3.00 per gallon of gasoline equivalent. There are several strategies that have potential to meet this target.
6. A system of hydrogen fueling stations may not be as expensive as you think. A \$10 - \$15 billion investment would put you within two miles of the nearest hydrogen station in the top 100 metro areas (where 70% of the population lives). This is one-half the cost of the Alaskan pipeline in today's dollars. This infrastructure could support 1 million FCEVs, assuming

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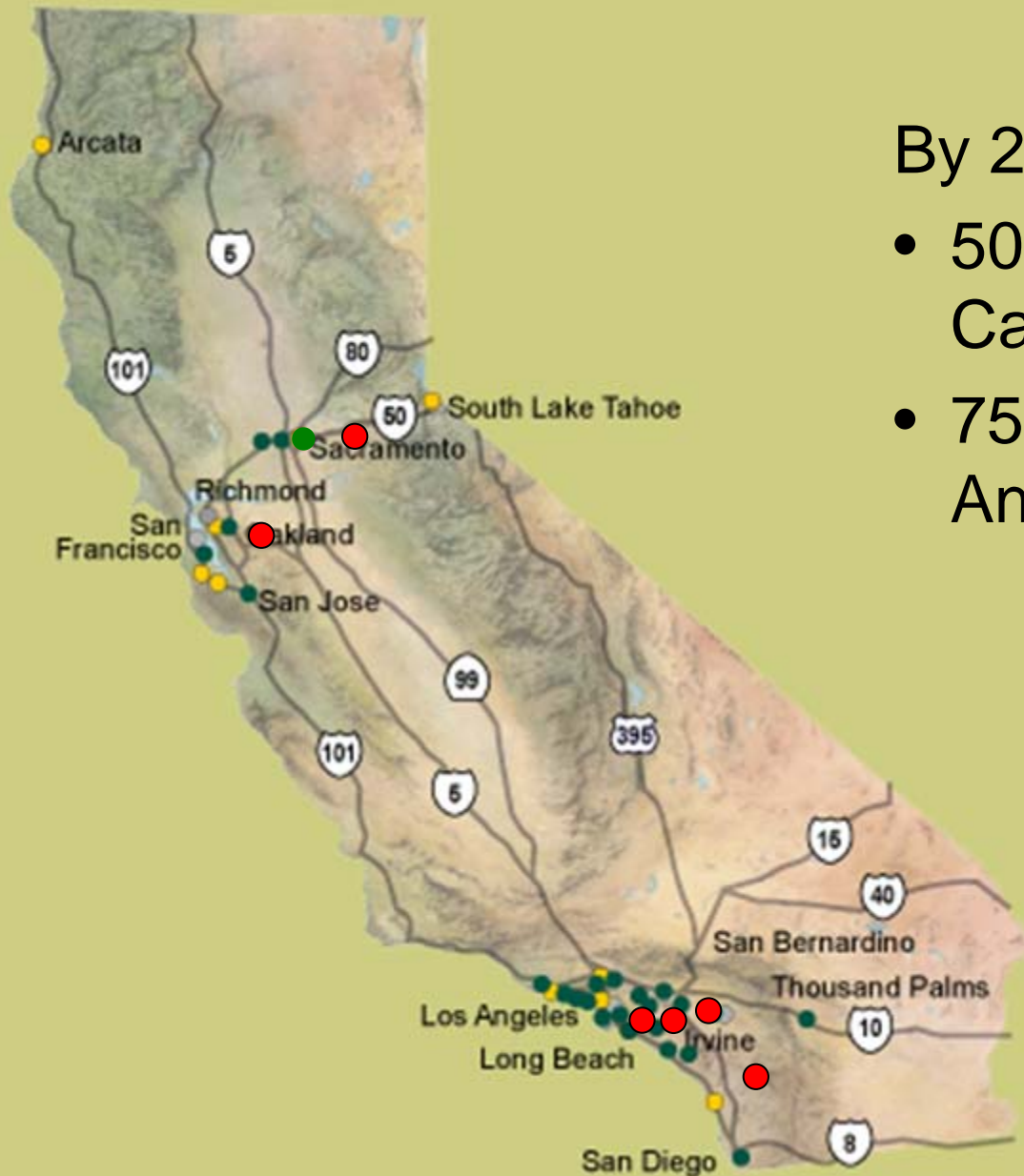
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By 2010 an additional

- 500 kg/day in Northern California
- 750 kg/day in greater Los Angeles region

San Fernando Valley

West LA

Downtown LA

Orange County











