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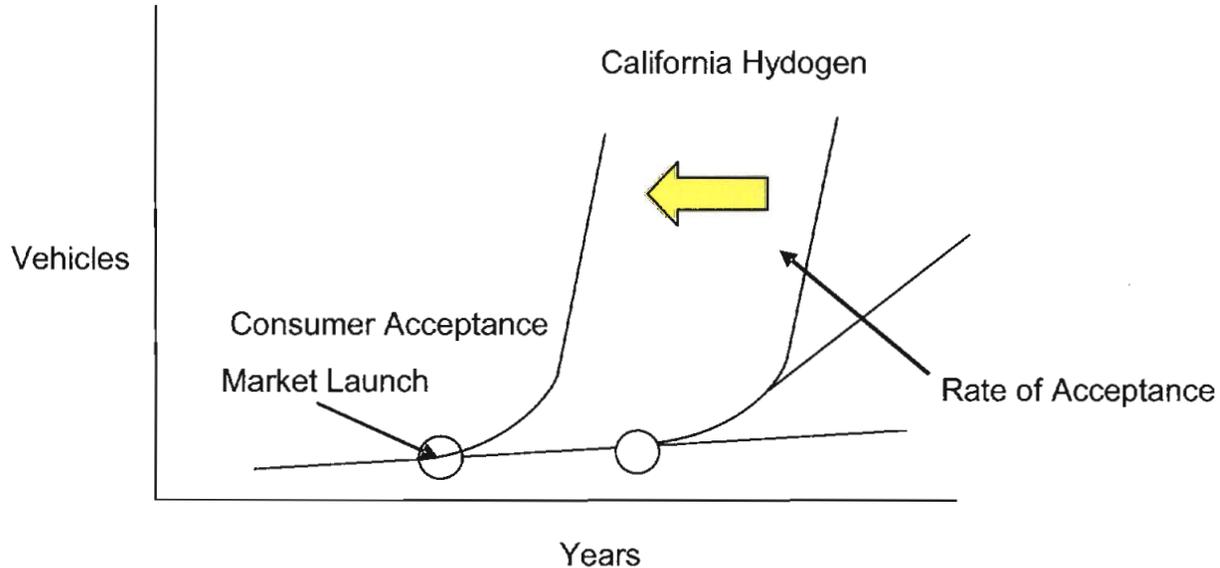
## Overall AB 1007 Alternative Fuels Analysis Methodology

**Presented at**  
***CEC-ARB Workshop on Developing a State  
Plan to Increase the Use of Alternative  
Transportation Fuels***  
**May 31, 2007**

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- Starting point was 2005 Integrated Energy Policy Report (05IEPR)
  - Stakeholder Groups for natural gas, propane, biofuels/ethanol, hydrogen, electric drive technologies, alternative diesel fuels and others
  - Use energy demand projections
- Objective of analysis to determine possible alternative fuel penetration scenarios and to estimate
  - Gasoline displaced, GHG emission reductions, implementation costs (R&D, product development, vehicle costs, and infrastructure costs), barriers and needed incentives/regulations
  - Attempted to look specifically at supply, product availability (vehicles, engines), infrastructure, and consumer response
- Reconnected with stakeholder groups for input and met privately with individual stakeholders to further explore business case for each of the various fuels and technologies
- TIAX and CEC staff performed analysis based on stakeholder input and recently published reports

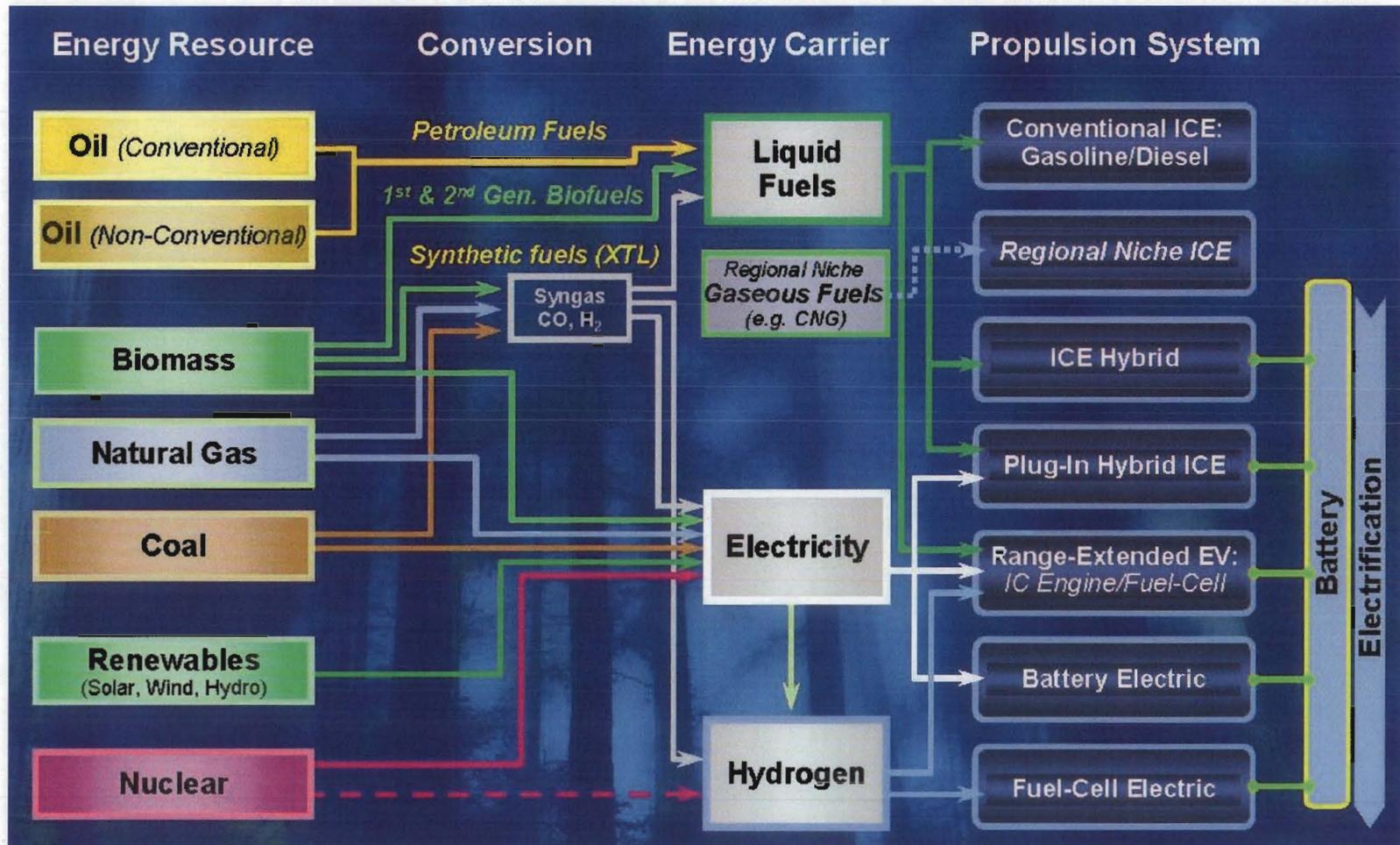
## Characteristics of New Technology Introductions



Market Launch & Consumer Acceptance function of  
developed vehicle technology  
vehicle availability  
vehicle performance, style, range, costs, ....., emissions, alternative fuels  
fueling infrastructure

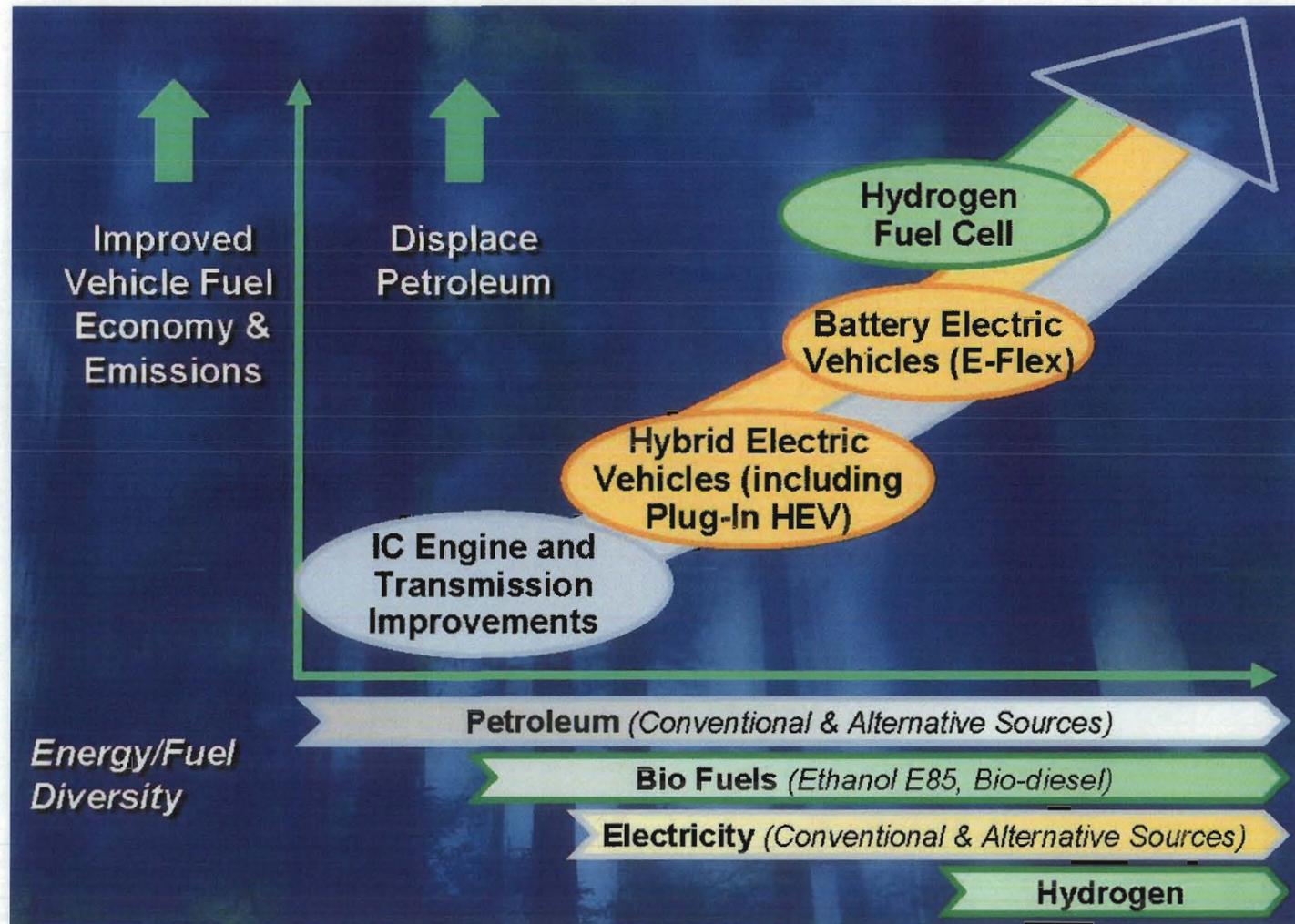
Rate of Acceptance function of  
fueling infrastructure  
costs/availability of conventional fuels  
vehicle owning and operating costs  
vehicle incentives  
vehicle regulations/mandates  
fuel pricing regulations

## Transportation Challenge — Energy Diversity — Fuel Blending



Source: Peter Savagian, General Motors presentation to the 2007 Government Industry Meeting, May 16, 2007

## Advanced Propulsion Technology Strategy



Source: Peter Savagian, General Motors presentation to the 2007 Government Industry Meeting, May 16, 2007