

STEPS SYMPOSIUM

December 11-12, 2018

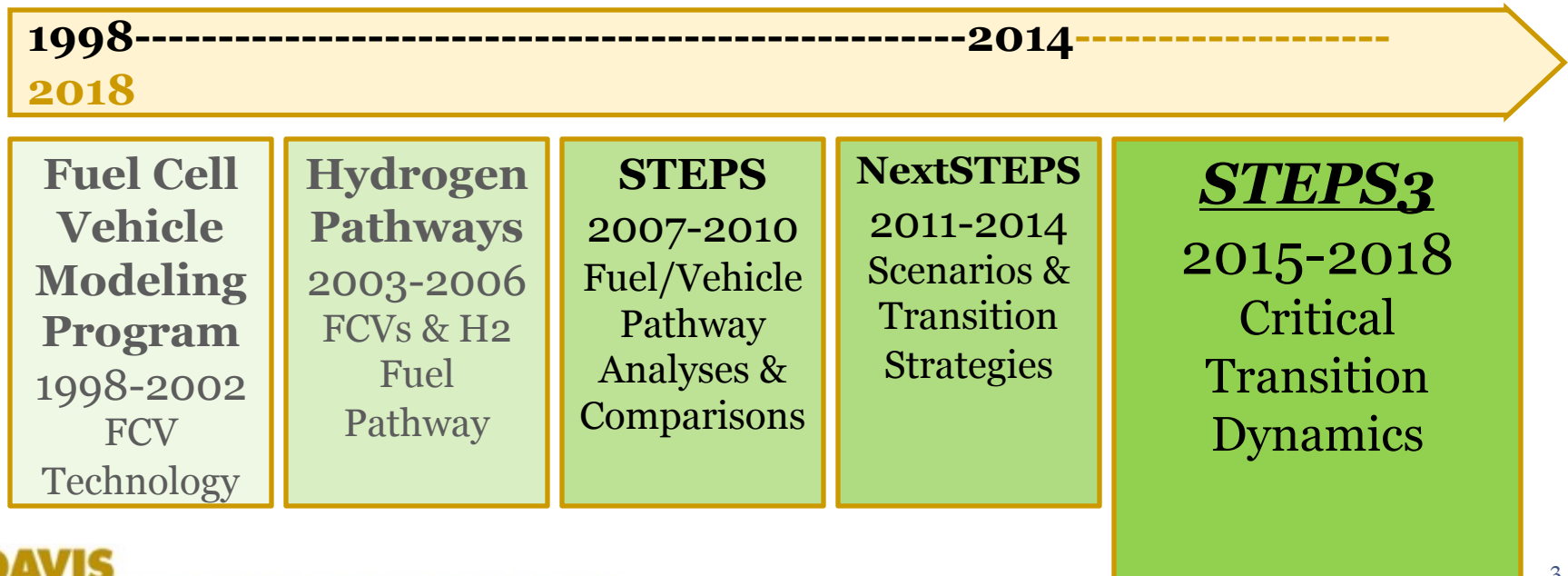
UC Davis

Conference Center

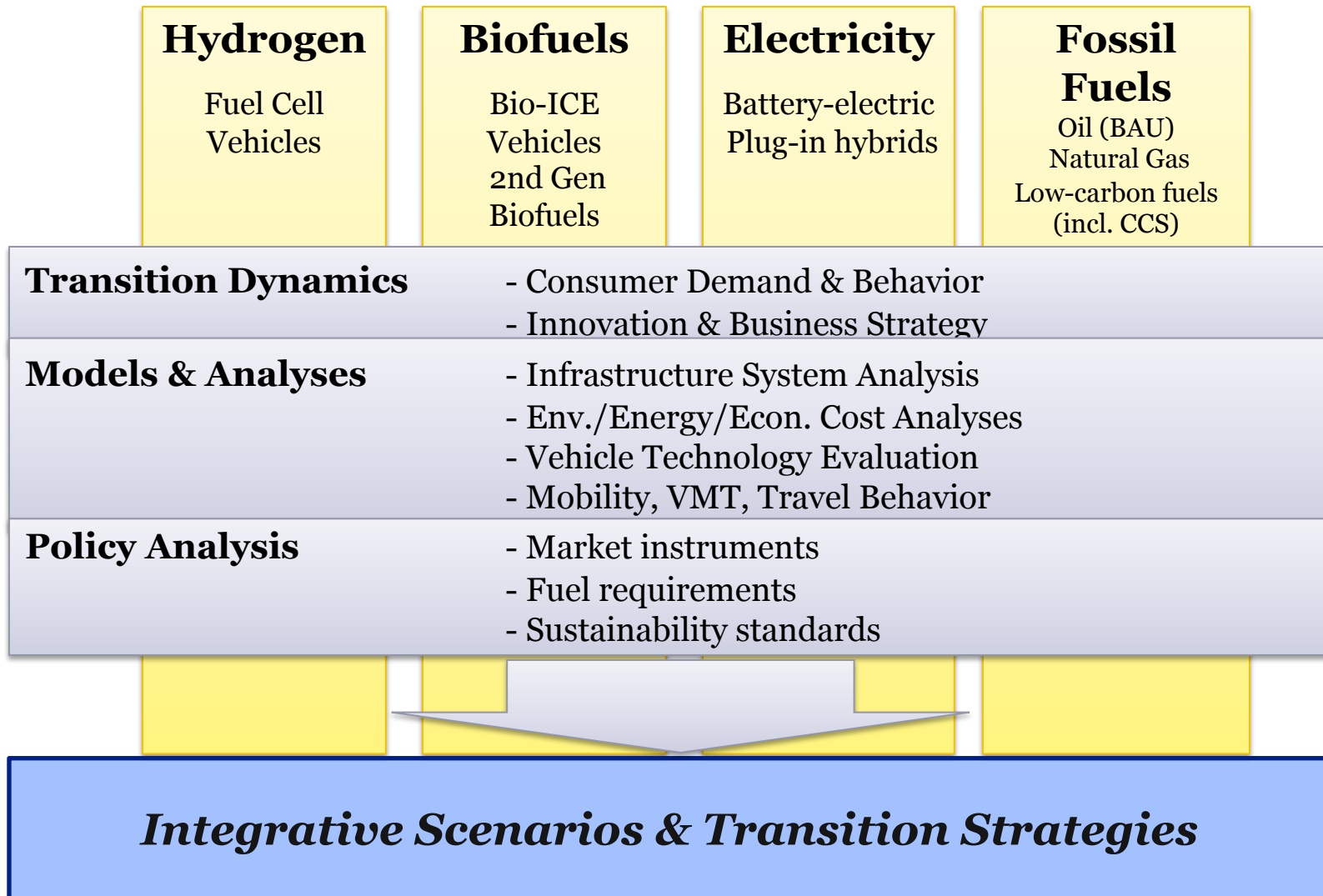
Welcome!

STEPS Program: Our Goals

- **Rigorous Research:** Generate New Insights to a sustainable transportation energy future
- **Outreach:** Disseminate knowledge to industry, government, NGOs and general public
- **Education:** Train the next generation of sustainable transportation and energy leaders



Analysis Framework



STEPS 2015-2018 (*STEPS3*): Understanding Critical Transition Dynamics for Sustainable Transportation

Key Research Themes developed with sponsors, invited experts, and team:

1. **Initiating Transitions 2015-2030**

What is required for early alternative fuel/ vehicle transitions to succeed?

2. **The Future of Fuels and the Oil and Gas Industry**

How will changing geopolitical landscapes and disruptive technology in the oil and gas and clean technology industries impact future business models and the competition of fuels?

3. **The Future of Global Urban Sustainable Transport (GUSTO)**

How will a rapidly urbanizing world affect transport and energy demand?

4. **Modeling Analysis, Verification, Regulatory and International Comparisons (MAVRIC)**

What do improved and cross-compared energy/ economic/ environmental/ transportation models tell us about the future of transportation?

Draft Agenda

STEPS Fall Symposium 2018

December 11 and 12, 2018
UC Davis Conference Center

Day 1 (December 11th)

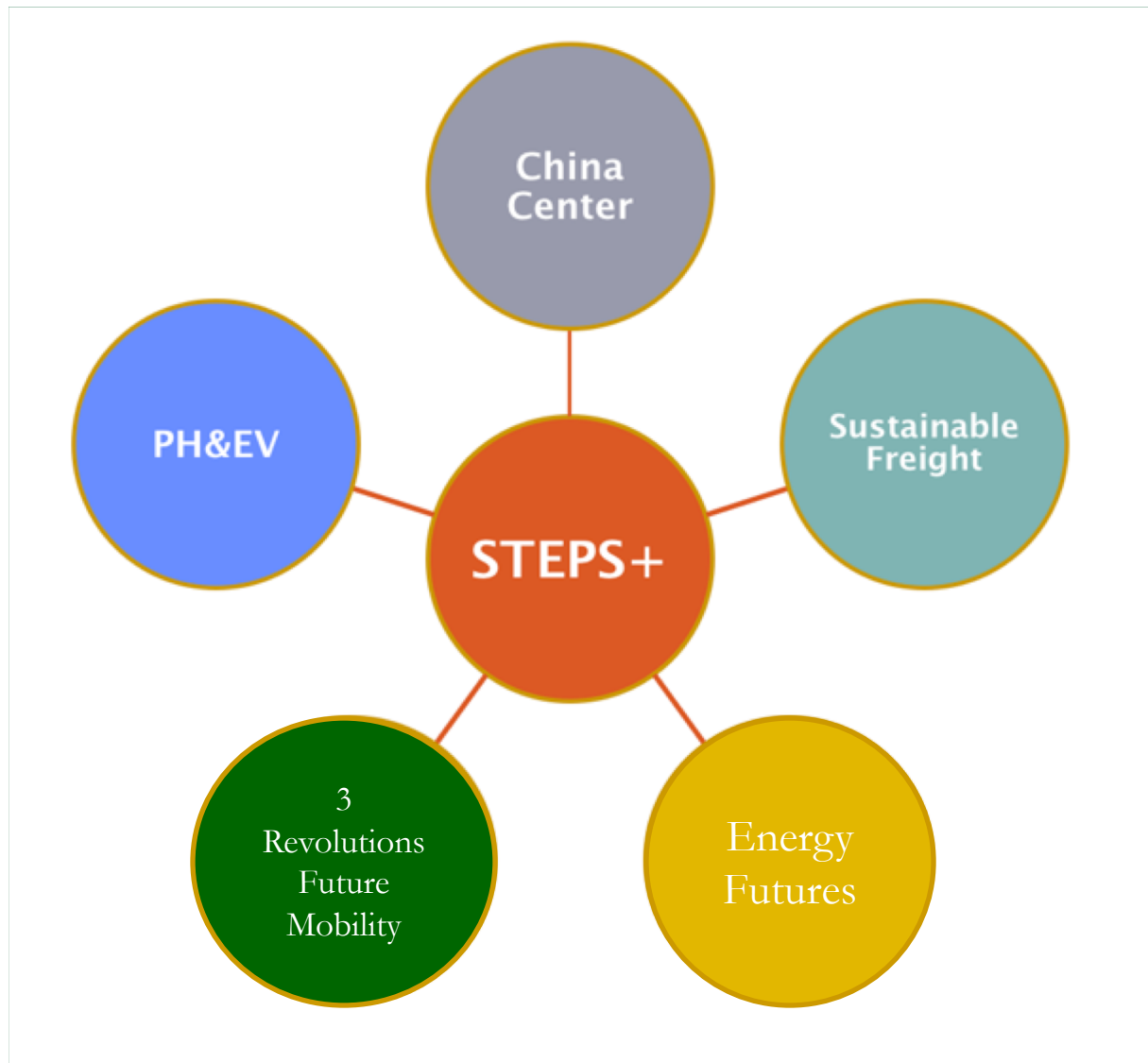
8:30 am	<i>Registration and Continental Breakfast</i>
8:50 am	Welcome and Introductory Remarks
9:00 am	Keynote: Richard Corey , Executive Officer, California Air Resources Board, followed by a discussion with Dan Sperling, and audience
10:00 am	Session 1. CA2050: Where are we headed and how will we get there? Lew Fulton Discussant: Ellen Greenberg, Caltrans Discussant: Phil Heirigs, Chevron
11:00 am	Session 2. The Role of Hydrogen in Transportation: What have we learned so far? Joan Ogden Discussants: Bill Elrick, California Fuel Cell Partnership Discussants: Michael Lord, Toyota
12:00 pm	<i>Lunch and Poster Session</i>
1:20 pm	Preview of STEPS+ Lew Fulton
1:30 pm	Session 3. Electric Vehicles: Achieving takeoff or hitting the wall? Gil Tal, Ken Kurani Discussant: Spencer Reeder, Audi Discussant: Tamara Nameroff, Shell Discussant: Fei Chi, Tesla
2:40 pm	<i>Coffee break</i>
3:00 pm	Session 4. 3Rs: Future Mobility Patterns, Vehicle Ownership and Evolving Travel Behaviors Giovanni Circella Discussant: Robert De Kleine, Ford Discussant: Guillaume Peronnet, Faurecia
4:00 pm	Session 5. Sustainable Freight: What can Trucks Deliver? Marshall Miller, Miguel Jaller Discussant: Dawn Fenton, Volvo Group Discussant: Jim O'Dea, Union of Concerned Scientists
6:00 pm	<i>Reception and Dinner, Our House Restaurant</i>

<i>Day 2 (December 12th)</i>	
8:45 am	Session 6. Vehicles, Biofuels, Electricity, LCA and LCFS: How do all these fit together? Julie Witcover, Alissa Kendall/Hanjiro Ambrose Discussant: Colin Murphy, PIEEE UC Davis Discussant: Sharyn Lie, US EPA
10:00 am	Session 7. China Vehicle Electrification: Status and Future Directions Yunshi Wang Discussant: Zhenhong Li, ORNL
10:45 am	Session 8. Policy Needs, Prospects And Looking Forward to STEPS+ Austin Brown Discussants: Anthony Eggert, ClimateWorks Discussant: Karl Simon, US EPA
11:45 am	Wrap up
12:00 pm	<i>Boxed Lunch and Adjourn</i>

STEPS+ 2019-2022 Research Centers

- Energy Futures (EF)
- Sustainable Freight (SF)
- Plug-In Hybrid & Electric Vehicles (PH&EV)
- 3 Revolutions Future Mobility (3 REVS)
- China Center for Energy & Transportation (C-CET)

STEPS+ 2019-2022 Program



Some Housekeeping

- Please no reporting, we use Chatham House Rules
- Please limit Tweeting, with no quotes or references to individuals