The following outlines our list of priority projects by research center for STEPS+ for 2022.

**Sustainable Freight Research Center**

1. **Spatial modeling of transportation systems in California (in cooperation with Energy Futures)**  
   Lead Researchers: Alan Jenn and Tri Dev Acharya

2. **Continued update of CA and US Transportation Transition Model**  
   Lead Researcher: Marshall Miller

3. **ZEV Truck data/tracking (CEC)**  
   Lead Researchers: Marshall Miller and Andrew Burke

4. **Assessment of barriers to ZEV market penetration**  
   Lead Researcher: Andrew Burke

5. **Hydrogen and electricity infrastructure scalability**  
   Lead Researchers: Guihua Wang, Marshall Miller, Lew Fulton

6. **Hydrogen freight refueling analysis**  
   Lead Researchers: Lew Fulton and Andrew Burke

7. **Quantifying environmental impacts of truck traffic**  
   Lead Researcher: Miguel Jaller

8. **Incorporating lessons learned from COVID into e-commerce**  
   Lead Researcher: Miguel Jaller

**Energy Futures Research Program**

1. **Spatial Modeling of Transportation Systems in California (in cooperation with Sustainable Freight)**  
   Lead Researchers: Alan Jenn, Tri Dev Acharya

2. **Hydrogen vs. Electric Fleet Vehicle Infrastructure Scalability, Costs, and Complexity**  
   Lead Researchers: Guihua Wang, Marshall Miller, Lew Fulton

3. **Electric Power Sector Modeling (and/or Analysis of Refueling Infrastructure Cost)**  
   Lead Researcher: Alan Jenn
4. **EV and FCEV Modeling and Scenarios at California and US levels**  
   Lead Researchers: EF team

5. **LCFS Modeling & Fuels Analysis**  
   Lead Researchers: Colin Murphy and Julie Witcover

6. **Low Carbon Fuel Standard Status Tracking**  
   Lead Researcher: Julie Witcover

7. **LCFS and EVs**  
   Lead Researcher: Julie Witcover

8. **Fats, Oils & Greases (FOG) Supply for Biofuel – Scoping Analysis**  
   Lead Researchers: Colin Murphy, Julie Witcover

---

**PH&EV Research Center**

1. **Further investigations of the role of public EV charging infrastructure on EV market growth**  
   Lead Researcher: Ken Kurani

2. **What motivates buyers to pay more for an electric vehicle?**  
   Lead Researcher: Scott Hardman

3. **Is there an alternative to overnight charging at home?**  
   Lead Researcher: Adam Davis

4. **Exploring the used PEV market in California**  
   Lead Researcher: Debapriya Chakraborty

5. **Business case for charging infrastructure**  
   Lead Researcher: Alan Jenn

---

**UC Davis**  
**China Center for Energy and Transportation**

China Center for Energy and Transportation

1. **China's transportation carbon neutrality pathway**  
   Lead Researchers: Xiuli Zhang, Lewis Fulton, Yunshi Wang, and Yan Xing

2. **U.S. – China High-Level Dialogue and Background Research: US/CA-China cooperation opportunities and challenges**  
   Lead Researchers: Yunshi Wang and Xiuli Zhang
3. **Network Design, Operations, and Partnerships to Integrate Microtransit into Fixed-route Public Transit**  
   Lead Researcher: Yan Xing

4. **Opportunities and pathways to HDV electrification in China**  
   Lead Researchers: Yan Xing and Yunshi Wang

5. **Decoding OEM upfront investment for battery production and EV production in the context of transportation transition towards 2030 and 2050 in the US**  
   Lead Researchers: Hong Yang and Lewis Fulton

### 3 Revolutions Future Mobility Program

1. **Hybrid Forms of Work and Their Impacts on Post-pandemic Travel Patterns**  
   Lead Researcher: Giovanni Circella

2. **The impacts of the COVID-19 pandemic on vehicle ownership**  
   Lead Researcher: Giovanni Circella

3. **Using Passively Collected and Survey Data to Explore Scenarios for the “New-normal” of Mobility**  
   Lead Researchers: Giovanni Circella, Ran Sun

4. **Impacts of Shared E-scooters on Mode Choices and Mode Shares**  
   Lead Researchers: Dillon Fitch, Giovanni Circella

5. **Impacts of Shared Bikes and E-scooters on Daily Mobility Patterns**  
   Lead Researcher: Dillon Fitch

6. **Which Modes Do Shared E-scooters Displace? Do Shared E-scooters Provide First/Last Mile Connection for Transit Users?**  
   Lead Researchers: Dillon Fitch, Giovanni Circella

7. **Ground Access to California Airports**  
   Lead Researchers: Giovanni Circella, Junia Compostella

8. **The Potential of Road Pricing to Manage Congestions in LA**  
   Lead Researchers: Giovanni Circella, Alimurtaza Kothawala

9. **How Disability Influences Choices and Desires for Travel and Residential Location**  
   Lead Researcher: Prashanth Venkataram

10. **Lessons Learned from Partnerships Between Transit Agencies and Ridehailing Companies**  
    Lead Researcher: Susie Pike

11. **Transportation, Societal, and Environmental Impacts of TNC in California**  
    Lead Researchers: Junia Compostella, Giovanni Circella
12. **What Policies Can Help Preserve VMT Declines from the COVID-19 Pandemic?**
   Lead Researcher: Susan Handy

13. **New Mobility Solutions in Disadvantaged Communities of the Central Valley**
   Lead Researcher: Caroline Rodier

14. **Modeling Scenarios of Long-term Impacts of COVID on Transportation with a Focus on Vulnerable Communities**
   Lead Researcher: Giovanni Circella

15. **Impacts of High-speed Rail Development in Central California**
   Lead Researchers: Anastasia Loukaitou-Sideris and Giovanni Circella