

CLEAN MOBILITY DEVELOPMENT COLLABORATIVE

Date: Monday, September 22 | 1:00 pm - 3:00 pm

Location: UCR - 169 Aberdeen Drive, 1st floor room 1251; Riverside, CA

Attendees:

Albert Lucero, Karma
Brian Suh, UCR
Dominik Haering, UCI
Ian Williamson, UCI
Jeannette Sepulveda, ISCUW
Jessica Crawford, ISCUW
Marques McCammon, Karma
Matthew Mena, IEGO
Michele Hirsch, Karma
Rosibel Ochoa, UCR
Russell Riviere, Karma
Scott Kitcher, Sustain SoCal

Board Meeting Notes

- **Upcoming Events and Industry Engagement:** Jeff, Rosibel, Scott, Greg, and others discussed a series of upcoming events including Innovation Week, the Sustainability Summit, the statewide automotive conference at Saddleback College, the ISO Technical Committee for Intelligent Transportation System, and the Hydrogen Alliance event, emphasizing opportunities for collaboration and increased visibility for the group and its members.
 - **Innovation Week Planning:** Jeff confirmed that Innovation Week will take place the week of April 20th next year, and the group discussed aligning their activities to maximize participation and impact.
 - **Sustainability Summit and High School Challenge:** Scott reported on the successful Sustainability Summit and the launch of the high school and general

Campus Challenge, which is currently Orange County-centric but aims to expand, with an invitation for campus tours and further engagement.

- **Statewide Automotive Conference at Saddleback College:** Greg announced the first statewide automotive conference at Saddleback College on October 17-18, expecting hundreds of educators and inviting consortium members to participate, with the goal of networking and bridging education and industry.
- **ISO Technical Committee and Hydrogen Alliance Events:** Rosibel shared details about the ISO Technical Committee event on intelligent transportation systems in Riverside and the Hydrogen Alliance event in April, highlighting opportunities for group members to present and collaborate, especially in hydrogen and energy diversification.
- **Industry Collaboration and Visibility:** Participants emphasized the importance of transparency and sharing information about events and initiatives, with a plan to centralize event information on a group website and calendar to foster collaboration and momentum.
- **Workforce Development and Training Initiatives:** Albert, Rosibel, Greg, and others detailed ongoing and planned workforce development efforts, including partnerships with educational institutions, employee training programs, mentorship and apprenticeship models, and the expansion of internship and engineering outreach programs to address industry skill gaps.
 - **Educational Partnerships and Training Programs:** Albert described collaborations with San Bernardino, Riverside, and RCCD Skill Center to provide employee training, shared use of facilities, and workforce development, including leveraging school programs for credit and proximity to manufacturing sites.
 - **Mentorship, Apprenticeships, and Community Outreach:** The group discussed mentorship and automotive apprenticeship programs, outreach through United Way and catalyst grants, and efforts to provide skill development and job opportunities for community members, including on-the-job training and mentorship for automotive careers.
 - **Internship and Resident Engineering Programs:** Rosibel and Albert highlighted the competitive internship program, the introduction of a resident engineering function targeting junior colleges, and the expansion of intern roles to include project management and technical skills, with high conversion rates to employment.
 - **Educator Training and Boot Camps:** Greg raised the need for technical training opportunities for educators, particularly in EV and high-voltage systems, and Rosibel agreed to explore hosting a general mobility training boot camp for educators, leveraging industry and dealer training resources.
 - **Skill Requirements and Industry Trends:** The discussion covered entry-level qualifications for manufacturing roles, the importance of soft skills, and the need to adapt training to new technologies, with references to industry trends

such as new vehicle launches and the need for upskilling in response to market changes.

- **Research Collaboration and Resource Database Development:** Rosibel and others proposed creating a comprehensive database of research capabilities, test benches, and faculty profiles across Southern California to facilitate collaboration, grant applications, and industry partnerships, with plans to host this resource on the group's website.
 - **Database of Research Capabilities:** The group agreed to develop a database cataloging hardware, test benches, and analysis resources available in the region, making it open for contributions from both committee members and the broader community to support research and industry collaboration.
 - **Faculty and Industry Profile Platform:** Plans were discussed to create a searchable platform of academic and industry experts, enabling quick identification of collaborators for multidisciplinary proposals, with an emphasis on including industry partners for meaningful project outcomes.
 - **Solid-State Battery and Advanced Technology Initiatives:** Rosibel described ongoing internal projects such as ring topology development for software-defined vehicles and solid-state battery deployment, noting the need for external partners and the value of the proposed database in identifying relevant expertise.
 - **Business Case and Policy Considerations:** The group acknowledged the importance of integrating business and policy perspectives into technology investments, especially considering shifting federal incentives and industry priorities and suggested involving business school faculty in these analyses.
- **Entrepreneurship and Incubator Support:** Rosibel, Ian, and others reviewed current and planned entrepreneurship initiatives, including the Zero to Entrepreneur program, support for start-ups through competitions and incubators, and efforts to connect ventures with technical talent, funding, and physical space.
 - **Zero to Entrepreneur Program Launch:** Rosibel outlined the adaptation of the Zero to Entrepreneur certificate for mobility, targeting a winter launch, with recruitment of 20-40 participants and involvement of Karma instructors, and plans for a social media campaign to promote the program.
 - **Start-Up Support and Technical Talent Matching:** The group is assisting 10-15 sustainability-focused companies with technical talent, testing resources, and SBIR proposal writing, and is facilitating student internships and CTO placements for AI and engineering needs.
 - **Oasis Challenge and Incubation Resources:** Rosibel announced the upcoming Oasis Challenge with a \$100,000 prize, opportunities for company recruitment, and the availability of wet lab and office space incubators, with plans to house and graduate start-ups into larger facilities.
 - **Regional Entrepreneurship Competitions and Incubator Collaboration:** Ian proposed leveraging regional entrepreneurship competitions by adding

mobility tracks and collaborating with incubators like Evo Nexus, Octane, and Sandstone to support transportation and clean tech ventures, with discussions on expanding incubator presence in the Inland Empire.

- **Venture Funding and Investment Partnerships:** The group discussed the need to attract mobility-focused investment funds to the region, referencing existing models in healthcare, and outlined plans to develop a significant venture fund in Southern California to support start-ups.
- **Group Naming, Governance, and Membership Expansion:** Russell led the group through the selection of a new name, Clean Mobility Development Collaborative, updated bylaws, and the process for appointing board representatives, while also approving the addition of new members such as Siemens, A123 Systems, and Novele.
 - **Selection of Group Name:** After reviewing several options, the group unanimously selected 'Clean Mobility Development Collaborative' as the new name, with plans to update the website and branding accordingly.
 - **Board Representation and Governance:** Each organization was asked to appoint one representative to the board, with instructions to email nominations by the end of the week to finalize administrative and legal structures.
 - **New Member Approval:** The group discussed and approved the addition of Siemens, A123 Systems, and Novele as new members, emphasizing their relevance to energy storage and net zero initiatives.
 - **Membership Criteria and Growth Management:** Russell clarified that while the group is open to new members, there is a need to balance growth with effectiveness, prioritizing members who can contribute time, energy, and resources.
- **Next Steps and Meeting Planning:** Russell concluded the meeting by outlining next steps, including circulating meeting minutes, finalizing board appointments, updating the website, and scheduling one more meeting before year-end to review progress and set an action plan for the coming year.
 - **Action Items and Follow-Up:** Karma will send out meeting minutes, collect board representative nominations, and update the website and bylaws, with a request for members to share upcoming event information for inclusion in the central calendar.
 - **Future Meeting Scheduling:** A final meeting for the year will be scheduled to summarize achievements and establish an action plan for the next year, with an emphasis on continued collaboration and information sharing.

Follow-up tasks:

- **Saddleback College Automotive Conference Participation:** Forward information about the October 17-18 statewide automotive conference at Saddleback College to consortium group members and invite their participation. (Greg)

- **Karma Presentation at ISO Technical Committee Event:** Coordinate with the event organizer to arrange for Karma to present at the ISO Technical Committee for Intelligent Transportation System forum on October 29. (UC)
- **Hydrogen Alliance Event Collaboration:** Send materials and speaker/collaborator requests for the April Hydrogen Alliance event to Scott. (UC)
- **Automotive Educator Boot Camp:** Develop a plan for a mobility training boot camp for educators, potentially hosted by Karma, and create a general format that can be shared with other industry partners. (Greg)
- **Consortium Website Launch and Calendar Update:** Confirm the new consortium name, update the website branding, and enable event calendar access for all members to submit upcoming events. (Michele)
- **Consortium Name Selection:** Update bylaws and circulate them to all members reflecting the new name "Clean Mobility Development Collaborative." (Russell)
- **Board Representation:** Email the name of each organization's board representative to Russell by the end of the week. (All members)
- **New Member Admission:** Process the addition of Siemens, A123 Systems, and Novele as new consortium members, ensuring no objections from current members. (Russell)
- **Centralized Event Repository:** Share details of upcoming relevant events with the group for inclusion in a central repository on the website. (All members)