



## **TODAY'S MODERATORS**



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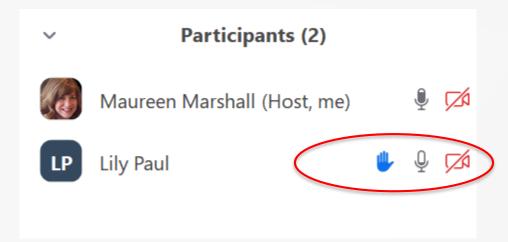


Planning today for tomorrow's transit future.



## **QUESTIONS AND ANSWERS**

1. PLEASE USE THE RAISE HAND
FUNCTION TO BE CALLED ON –
LOCATED IN PARTICIPATES NEXT TO
YOUR NAME



#### 2. OR USE THE CHAT BOX



All Questions and Answers will be recorded and posted at www.catuf.org





### A GLOBAL ORGANIZATION WITH REGIONAL FOCUS





# CONNECTED AND AUTOMATED TRANSPORTATION USERS FORUM - COHORT

# Agency input and guidance on <u>Transit</u> <u>Agency Needs, Design, Key Performance</u> <u>Parameters and Requirements</u>

- Agencies are piloting transit AVs that do not meet operational needs
- Special focus on safety, crashworthiness and accessibility that meets needs of transits at a national level



CATUF was established in 2018 which has lead to a COHORT of twelve (and growing) transit fleet operators



# CALSTART CATUF NEXT GENERATION, PURPOSE-BUILT, COHORT







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#### **Purpose and Intent:**

- Begin a dialogue with key stakeholders (e.g. vendors, OEMs, suppliers)
- Focused on the key design and performance parameters –derived from transit agency input, guidance and direction
- Moving the activity beyond pilots to commercially deploying a transit AV

Leading to several vehicle deployments across the United States



#### Solicitation:

- Open to all vendors, manufactures, suppliers, engineering firms and their partners
- Feedback on key design and performance parameters
  - Mandatory requirements (i.e. automation, compliance)
  - 'Nice to have' requirements (i.e. video communications)
  - Local and regional requirements (i.e. safety)
- Submissions should attempt to address all KPP's and provide adequate supporting information





### **Key Notes on Operation Design Domains and Safety:**

- Vehicles must be highly reliable and flexible in nature to meet the needs of many agencies
- Operational modes include, but are not limited to:
  - First/Last Mile
  - Circulator
  - Personal Rapid Transit (guard-railed operation or dedicated lane)
- Safety is paramount to the success of AV deployments and should be considered in all aspects of the design solution

Tomorrow's transit AV's will be a 'go - to' vehicle for at scale deployment



#### **RFI Response Format:**

- Responses should be limited to 25 pages (plus any supporting appendices)
- Responses should include:
  - Cover Letter
  - Body KPP responses
  - Rough order of Magnitude Budget
  - Any appendices



Industry's responses will shape the future of transit automation



#### **Cover Letter:**

- Need all contact information
  - Point of Contact(s)
  - Address
  - Telephone number(s)
  - Email address(es)
  - Link to organization's website
  - Brief summary of your organization and experience related to autonomous vehicle and systems development



### **Body:**

- Clearly describe the vehicle solution(s)
  - Providing a clear understanding of how the solution meets the KPPs (i.e. drawings, renderings and photos)
- Technology Readiness Levels (TRLs)
- Detailed response to each of the KPPs
  - Solution
  - Reactions
  - Considerations
  - All applicable information
  - Reasoning if a KPP cannot me met and alternative solutions





#### **Rough Order of Magnitude:**

- To the degree possible budget and timelines associated with the delivery your solution
- Considering the following and quantities and build types:
  - 1. up to 3 prototypes
  - 2. up to 15 pilots
  - 3. up to 100 production units.



**PLEASE NOTE: The ROMs will not be shared PUBLICLY** 



#### **Evaluation:**

- Responses will be evaluated based on:
  - ☐ Organization's knowledge and background in transportation and automation
  - ☐ Near term capabilities meeting design and KPPs
  - □ Ability to address each of the design and KPPs with innovative solutions that are achievable
  - ☐ Level of detail given in response to each of the KPPs
  - □ Ability to communicate openly about why a KPP could not be met and in doing so offering an achievable alternate solution(s)





#### **Critical Dates:**

- Friday, May 22, 2020 (5pm PST): Last day to submit questions.
  - All questions should go to: mmarshall@calstart.org
- Friday, June 5, 2020: All questions and answers will be compiled and uploaded to <u>www.catuf.org</u>
- RFI Deadline Monday , June 15, 2020 (5pm PST):
   All RFI's to be submitted by this date



#### **Next Steps:**

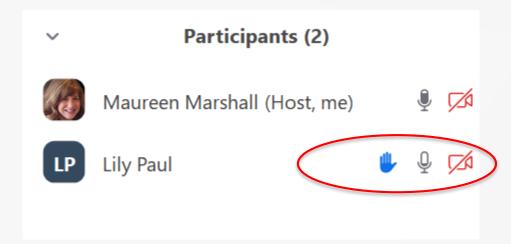
- RFI responses will be reviewed
- Top responders will have an opportunity to showcase their solutions/products to the cohort during a scheduled webinar (~Starting August)





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