EMERGING STANDARDS FOR EMERGING MOBILITY

TRB Mobility Management Committee Meeting

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The mission of this committee is to advance the field of shared and digital mobility through the development of industry standards. The standards will serve to:

- **CREATE A COMMON LANGUAGE**
- **HARMONIZE GLOBAL MARKETS**
- **FACILITATE INTEROPERABILITY**
This Committee Could Work on…

- SHARED AUTOMATED VEHICLES
- CARSHARING VEHICLE ENTRY
- BIKE SHARING TECHNOLOGIES
- MOBILITY-AS-A-SERVICE API
- DATA FROM MOBILITY PROVIDERS

Image source (clockwise from top left): Volvo; Getaround; Fyxation, Fernando Volken Togni; Uber
We created a GLOSSARY

Taxonomy and Definitions for Terms Related to Shared Mobility and Enabling Technologies

Scope
A taxonomy describing the spectrum of shared mobility services, including definitions for shared modes (e.g., carsharing, bikesharing, etc.) and related terms and definitions (i.e., one-way, roundtrip, etc.).

Led by
Susan Shaheen, Ph.D., UC Berkeley
& Adam Cohen, UC Berkeley
What is Covered in SAE J3163?

- **TRAVEL MODES**
  - e.g. bikesharing & carsharing

- **MOBILITY APPLICATIONS**
  - e.g. mobility tracker apps

- **SERVICE MODELS**
  - e.g. P2P service model

- **OPERATIONAL MODELS**
  - e.g. station-based roundtrip

- **BUSINESS MODELS**
  - e.g. B2B services & B2C services

- **DEPRECATED TERMS**
  - e.g. ridesharing
ACCELERATED development of J3163

1. COMMITTEE DEVELOPS SCOPE
   - Dec 2017

2. EXPERT PANEL DEVELOPS DRAFT
   - Jan to Apr 2018

3. BALLOT & COMMENT RESOL’N
   - May to Aug 2018

4. PUBLISH STANDARD
   - Sept 2018
NEXT STEPS
Micromobility

What are these things called?
Current Mobility Landscape & SAE Standards

**SHARED MOBILITY**
e.g. ridesourcing & microtransit

- **SHARING OF TRADITIONAL GVIs**
e.g. carsharing

- **CORE GV TECH APPLIED TO NEW SHARED GV MODES**
e.g. interoperable batteries across various modes

- **CORE GV TECHNOLOGIES**
e.g. automation & electrification

- **NEW MODES**
e.g. e-unicycle & hoverboard

- **SHARING OF NEW GV MODES**
e.g. e-scooter sharing

- **CORE GV TECH APPLIED IN NEW GV MODES**
e.g. batteries for e-bicycles
THANK YOU
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