<table>
<thead>
<tr>
<th><strong>Docket Number:</strong></th>
<th>18-EVI-01</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Project Title:</strong></td>
<td>California Plug-in Electric Vehicle Infrastructure Projections</td>
</tr>
<tr>
<td><strong>TN #:</strong></td>
<td>224123</td>
</tr>
<tr>
<td><strong>Document Title:</strong></td>
<td>Presentation - CA EV Infrastructure Projections</td>
</tr>
<tr>
<td><strong>Description:</strong></td>
<td>CEC Workshop 5/23/18 - Presentation by Jamie Hall</td>
</tr>
<tr>
<td><strong>Filer:</strong></td>
<td>Jessica Martinez</td>
</tr>
<tr>
<td><strong>Organization:</strong></td>
<td>MAVEN</td>
</tr>
<tr>
<td><strong>Submitter Role:</strong></td>
<td>Public</td>
</tr>
<tr>
<td><strong>Submission Date:</strong></td>
<td>7/11/2018 1:24:48 PM</td>
</tr>
<tr>
<td><strong>Docketed Date:</strong></td>
<td>7/11/2018</td>
</tr>
</tbody>
</table>
Maven Offerings

MAVEN CITY
Open sharing model allowing members to make reservations for station-based use of a variety of vehicles located around the city

MAVEN HOME
Maven Home is a closed sharing model for residential communities with added white-glove service

MAVEN GIG
Allows ride-share and delivery drivers to make extended rentals of a quality vehicle at a great value including insurance, maintenance, and charging
Maven Removes the Barriers to Sharing

Service brand for shared access by different demand pools

Member services

Fleet Management:
Registration, repairs, transport, maintenance, lifecycle & residual management, financing, insurance

Public sector:
Tax, regulatory, utilities, municipalities

Real-world ridesharing ops and learning with Bolt EVs

Physical infrastructure

Telemetry, Data Science
### Designing Next-generation Transportation Ecosystems

- **Congestion**
  - Shared use + multimodal
  - Amplify transit

- **Environment**
  - Electrify remaining VMT
  - Reduce noise pollution

- **Safety**
  - Zero-accident (“Vision-Zero”)
  - Data-driving planning decisions

- **Infrastructure**
  - Charging, Utility-Grid Integration
  - Multi-modal hubs, e.g. parking, transit, etc.

- **Economic Development**
  - Mobility options for all – transit deserts
  - Economic opportunities for residents

Cities as convening authorities to drive alignment across stakeholders.

Establishing new collaboration paradigms.

Active platform building to establish multiplier effects.
Bolt EV Deployment

>800 Bolts (15+ months)

~12 million miles driven
>1 million passengers
~125K+ charging events
~475,000 gallons of gas saved

Commercial and personal usage patterns

Helping to solve the public EV infrastructure conundrum

Coordinated fleet rollout with committed demand = stimulate creation of public infrastructure and healthy private sector supply

Real-world duty cycle for future AV platform

- Stop-and-go, in-city driving
- >95% DC fast charge
- Demand-driven trip patterns – movement & non-movement
- Layering use types: people + packages
- Complementary channel to retail sales: those “outside funnel”
Boston example

Vehicle trips (one day)
Vehicle Dwell Locations

- Stationary for 6 hours or more
- Large circles indicate greater numbers of distinct vehicles
- Counts were grouped according to the associated latitude / longitude (by square kilometer)

anonymized
Building an initial urban core DCFC network

Potential area

High Power Stations
DC fast charge or Superchargers
Public/Private Partnership Model Enables Future of Mobility

- **Uniquely capable vehicle platform**
  Connected, electric

- **Physical infrastructure**
  Transit-adjacent parking, charging, + ‘muster’ space

- **Sharing platform**
  IT backbone, customer app, fleet operations

---

**Personal mobility access**
- Gig jobs
- Zero-emission miles
- First mile / last mile integration to amplify and enable other modes, e.g. mass transit
- “AV ready” cities with future foundation in place