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Historic Red Brick Courthouse – Rockville, Maryland

### Sharing: On-demand ride services, car-sharing, bike-sharing, and car-pooling

- Uber's revenues are expected to increase 150% from 10.8B in 2015 to \$26.1B in 2016<sup>1</sup>
- Car-sharing services led Americans to forego the purchase of 500,000 cars between 2006 and 2013<sup>2</sup>
- Paris is expected to pay-off its \$47M investment Autolib carsharing three years ahead of schedule<sup>3</sup>

### Autonomous Vehicles: Vehicles capable of navigating without human input

- Within the next 20 years full automation of transport is predicted<sup>5,10</sup>
- Google's autonomous car has clocked 1.4M miles of driver-less driving<sup>11</sup>
- Tesla's "Autopilot" and GM's Cadillac "Super Cruise," offer hands-free and feet-free driving<sup>9</sup>
- Seven states in the US allow autonomous drive testing; 16 states introduced legislation regarding autonomous vehicles in 2015<sup>12</sup>

### New Modes: Long term possibilities

Start-ups such as Terrafugia and AeroMobil are investigating development of flying cars and Japan is testing speeds and feasibility of MagLevs<sup>14</sup>





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# **Smart Transit Spotlight Project**





## Enabling 'Bus and Bus Shelter as a Platform' can support multiple Smart Cities' solutions



## **Reimagine the Bus Stop Challenge**

### Universities, the private sector and government come together the reimagine the bus stop from the ground up





- A select group of universities compete to build the bus stop of the future, looking at all aspects including technology, design, comfort and aesthetics.
- University teams will be given a set of requirements and encouraged to work with their local transportation departments to get ideas and feedback
- Finalists will build their bus stop and have it deployed in select sites in Montgomery County

### **Timeline and Logistics**

- County and partners will announce the Challenge at the Smart City Summit in Austin, TX in June along with details of participants and prizes;
- Preliminary designs will be judged by fall 2016; winners selected by end of 2016 or early 2017
- University of Maryland is co-organizing the Challenge with the County and has several grants pending to cover costs; Current partners as well as additional sponsors will provide awards/prizes
- All designs would be reviewed by a panel but winning designs would be approved by MCDOT to ensure they conform to appropriate the standards





