The Driverless City
August, 2016

Team: Marshall Brown, Lili Du, Laura Forlano, Jack Guthman, Ron Henderson

Progress for 2nd and 3rd Quarters:

Technical research:

- Lili Du completed the first phase study on platoon car-following mathematical modeling, including simulation as well as video making.

- Marshall Brown, Ron Henderson, and design research associates worked on developing urban design scenarios.

Papers:


Secondary Research:

- Compiled a broad literature review of over 160 relevant articles and papers about the topic.

- Conducted a specific literature review on specific topics related to the primary research.

- Jack Guthman conducting review of current legal issues and precedents.
Outreach:

- Conducted outreach to several key projects in the Chicago area including the Array of Things and City Digital in order to explore potential partnerships.
- Conducted outreach to contacts at Ford and Nissan as background/informational interviews.
- Marshall Brown developed contact with Michigan Municipal League.

Qualitative Interviews

- Completed IRB application and received approval to begin qualitative research.
- Conducted outreach to over ten experts in the Chicago area for one-hour qualitative interviews to inform research and scenarios.
- Conducted and transcribed three one-hour interviews.
- Reviewing and analyzing interviews to identify key quotes for the final report.

Site Visit

- Conducted one site visit to the University of Michigan’s MCity testbed in Ann Arbor.
- Transcribed notes from the site visit.
- Identified key themes from the site visit to inform the secondary research and framing of subsequent publications.

Driverless City Card Deck

- Created multiple iterations of the card deck/game prototype from April 1st – August 1st in order to refine the key concepts and design.
- Ran a workshop with Chicago Humanities Festival Summer Doctoral Program in order to test the card deck/game prototype with external participants.
Administered a survey with Chicago Humanities Festival Summer Doctoral Program in order to evaluate the results of the workshop.

Conducted three follow up interviews with participants from the Chicago Humanities Festival Summer Doctoral Program in order to learn about their experiences using the card deck in more detail.

**Speaking Events**

- Laura Forlano has been invited to participate in a panel on the topic of “Speed" along with designers from IDEO as part of the Fall Chicago Humanities Festival.

- Driverless City, public lecture by Ron Henderson, Tongji University, Shanghai PRC, January 4, 2016.

- Driverless City, public lecture, Tsinghua University, Beijing PRC, January 7, 2016.


- Stochastic Poisson Game for an Online Decentralized and Coordinated Parking Mechanism, public lecture by Lili Du, Tsinghua University, China, June 21, 2016.


College of Architecture Advanced Landscape Studio

- February 5, Nayar Prize Faculty Landscape Architecture Studio Workshop (Brown, Du, Forlano, Henderson, O'Shea and students).

- IIT Driverless City Studio, an ongoing investigation of transportation technology history and benchmarking of early twenty-first century transportation.

- February 10, presentation by Driverless City Studio visiting lecturer Peter Stempel, University of Rhode Island.

- April 8, presentation by Driverless City Studio visiting lecturer Trevor Lee, OLIN/University of Pennsylvania.

- April 25, IIT Driverless City Studio Final Review (Brown, Du, Forlano, Henderson, O'Shea, Lucius and students).

Media


Updates to 4th Quarter Plans:

- Design team continuing to develop urban design scenarios.

- Working with Thirst Graphic Design to produce book for final report.

- Continuing outreach to secure location and dates for exhibition.

- Completing design and fabrication for card deck.