

# Research Recap

## Synthesis of Research Results and Technology Trends to Inform Federal, State, Regional and Local Policies for Smart Mobility of People and Goods: Phase 3

**Purpose:** The project team set out to track disruptive technologies impacting transportation, assess a variety of policy alternatives, and synthesize research results from the full range of CMU and partner research efforts to inform smart mobility policy at the national, state, regional, and local levels.

**Approach:** The research for this project was conducted through meetings with business leaders and policy makers, interactions with researchers at Carnegie Mellon to identify new areas of research, and through the research of national technology trends and associated policies.

### Key Findings:

Overall, the combination of research and collaboration conducted by the Traffic21 and Mobility21 has directly impacted local and federal policy. Key focus topics include the opening of the 5.9 GHz band by the Federal Communications Commission, which has policy and social implications surrounding communications infrastructure. Policy development related to ridehailing and scooter sharing services bring up questions related to equitable distribution and use, privacy, as well as competition with transit. Finally, the regulation of autonomous vehicles becomes increasingly relevant as more of these vehicles are brought to the market.

### Conclusion:

The collaboration and research efforts facilitated by Traffic21 and Mobility21 has uncovered a variety of issues and focus points, including industry shifts driven by emerging technologies, advancement in electric vehicles, advancement in the autonomous vehicle industry, and the need to address equity in all modes of transportation. When undertaking future research, the results of this project recommend that organizations focus on the equitable deployment of emerging mobility technology, impacts on climate change, and the synthesis of new transportation technologies such as automated, shared, connected, electric and novel transportation systems.



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### Project Record:

- <https://ppms.cit.cmu.edu/projects/detail/326>

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