Blueprint for Autonomous Urbanism
Second Edition
Designing Cities 2019
Introducing...
How Jaywalking Could Jam Up the Era of Self-Driving Cars
Actions for Cities Today

Sustainability, Energy, and Environment

Sustainability offices and related agencies should begin planning and implementing strategies to address the climate change challenges they face, and work with State authorities, City Planning, and Local Government departments to determine Electric Vehicle Supply Equipment (EVSE) rating strategies and adoption plans.

Potential action items:
- Develop partnerships with transportation and technology experts to prepare for the added value and efficiency of EVSE.
- Improve the coordination of recharging stations and energy networks.

Information Technology

In the information technology department, it’s important to develop a comprehensive plan. This plan must include a strategy to capture, store, and analyze data from all sources, and to develop software that allows city officials to make informed decisions quickly and efficiently.

Potential action items:
- Develop a master data management and information architecture to ensure that information is shared across all departments.
- Implement new technologies to improve the efficiency and effectiveness of city operations.

Pricing Authority

Pricing and transportation agencies should work on strategies to maximize their capacity to serve the public. This includes considering alternative revenue streams, such as parking fees, to fund infrastructure development.

Potential action items:
- Develop strategies to minimize the impact of pricing on the community.
- Implement new technologies to improve the efficiency and effectiveness of city operations.

Actions for City Council and the Departments

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- Develop strategies to minimize the impact of pricing on the community.
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Transportation & Public Works

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The Bus of Tomorrow

Technology offers huge opportunities to reinvent the bus, the workhorse of transit in North America. Even before autonomous transit vehicles appear on the market, cities and transit agencies can realize many of the promised safety, efficiency, and customer experience benefits by upgrading buses and station infrastructure. These decisions can help to bridge the gap between current service and fully integrated Mobility As A Service frameworks.

Focus technology on enhancing transit
Changing behavior by pricing:

Places

Curbs

Trips
Right-size & consolidate urban freight.
Manage data for the public good.

1. Public
2. Protected
3. Purposeful
4. Portable

Data Anonymization Approaches

- Raw
- "Blur"
- K-Anonymization
- SharedStreets
AV technology must focus on efficiency
space required to transport 60 people

car
uber
autonomous car
Cities can (and must) act now!
Present

- SOVs prioritized
- Inefficient transit
- Increasing VMT
- Unsafe streets
Interim-Blueprint 2.0

- Streets designed for safety
- High-capacity modes prioritized
- Data-driven decision-making
- Technology serves the public interest
Future

- Frequent, high-capacity transit
- People-centered street design
- Significant VMT reductions
- AV-enabled safety outcomes
Blueprint for Autonomous Urbanism: Second Edition

www.nacto.org/publications/bau2
Focus AV technology on enhancing transit

Old network

81 min trip

New network

50 min trip

↓ Efficiency

↑ Frequency
↑ Efficiency