



NEW MOBILITY IMPACTS

URBANISM NEXT EUROPE
2021



Lessons from the US: Learning from pilot projects

4.C. European experiences with new mobility impacts

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URBANISM NEXT FRAMEWORK



FORCES OF CHANGE

- NEW MOBILITY
- E-COMMERCE
- URBAN DELIVERY
- AUTONOMOUS VEHICLES
- MOBILITY AS A SERVICE

FIRST ORDER IMPACTS

- CHANGE PARKING DEMAND
- CHANGE IN VEHICLE MILES TRAVELED
- CHANGE IN CONGESTION
- CHANGE IN EASE OF TRAVEL
- SHIFT IN MODES
- COMPETITION FOR THE RIGHT-OF-WAY
- CHANGE IN GOODS & MEAL DELIVERY
- SHIFTING NATURE OF FREIGHT
- CHANGE IN DEMAND FOR WAREHOUSING SPACE
- REDUCTION OF BRICK-AND-MORTAR STORES
- INCREASING INTEREST IN EXPERIENTIAL RETAIL

MULTI-LEVEL IMPACTS

LAND USE

- RETAIL/COMMERCIAL/OFFICE
- HOUSING
- PARKS & OPEN SPACE
- WAREHOUSE/INDUSTRIAL
- AUTO-ORIENTED USES

URBAN DESIGN

- METROPOLITAN FOOTPRINT
- CENTERS & CORRIDORS
- STREET DESIGN
- PARKING (URBAN FORM)
- DENSIFICATION
- SENSE OF PLACE

BUILDING DESIGN

- STREET RELATIONSHIP
- PROGRAMMATIC SHIFTS
- DELIVERY MANAGEMENT
- PARKING (BUILDING DESIGN)

TRANSPORTATION

- WALKING
- BIKING & MICROMOBILITY
- TRANSIT
- PARKING (TRANSPORTATION)
- VEHICLE OWNERSHIP

REAL ESTATE

- LAND VALUE
- PROJECT FEASIBILITY
- BUZZ/VITALITY
- QUALITY
- LOCATION & CONTEXT

WHY IT MATTERS

- EQUITY
- HEALTH & SAFETY
- ENVIRONMENT
- ECONOMY

WHAT TO DO

- GOVERNANCE
- EDUCATION & OUTREACH
- DESIGN
- RESEARCH

PERFECTING POLICY WITH PILOTS (2019)

220 PILOT PROJECTS ASSESSED + 11 CASE STUDIES COMPLETED =

31 LESSONS LEARNED AND 10 RECOMMENDED ACTIONS



LEGEND

- number of pilots
- AV delivery
- micromobility
- microtransit
- passenger AV
- TNC partnership

Knight AV Initiative



- **Engage Communities** to understand needs.
- **Engage Private Sector** to understand competitive business cases.
- **Engage Local Governments** to understand how to leverage assets to generate equitable outcomes.



Framework for shaping deployment of AVs and advancing equitable outcomes



IDENTIFYING COMMUNITY NEEDS

PUBLIC ENGAGEMENT

Public sector agencies should engage community members in ways that prioritize the voices of marginalized groups.



EQUITY ISSUES

During engagement, public sector agencies should focus on equity-related issues to understand the community members' needs.



SHAPING DEPLOYMENT

MODELS OF GOVERNANCE

Policy approaches to AV deployment — from laissez faire to interventionist — are shaped by federal, state, and local regulations, investments, and programs and will look different on a state-by-state basis.



TOOLS AND LEVERS

There are a variety of resources and activities that local governments can leverage when working with AV service providers that can incentivize those providers to address equity issues and help achieve community goals.



Learnings



- **Plan now** – Now is the time to plan for AVs
- Build trust – Residents often distrust government and “don’t want to be experimented on”
- Find great partners – Some companies are willing to work with local governments and help solve problems
- Be nimble – Covid-19 taught us to pivot
- Look for the unexpected opportunities – Safety and mapping



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Thank you!

Do you have any question?

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