DRIVERLESS FUTURE

A POLICY ROADMAP FOR CITY LEADERS
Paris, France
June 28, 2017
Arcadis at a Glance

- Founded in 1888
- Global headquarters: Amsterdam
- Over 350 offices in 40 countries
- Active in 70+ countries
- 27,000+ employees
Our Global Experience in Public Transportation
Call for City Leadership

Current and Projected Modal Share

All cities, especially lower-density metros, have the potential to reduce car dependency and congestion.

Possible 20% Reduction
New York-Newark-Jersey City, NY-NJ MSA

Could experience a shift of 46% to 60% (2.4 million to 3.6 million cars) from personal vehicles to shared AVs.
Available Apps in the Market

New York

Public transport: 
- Google Maps
- Citymapper
- NYC MTA

Ridesharing services: 
- Lyft
- Juno

Paris

Public transport: 
- Autolib'
- Paris Taxis

Ridesharing services: 
- LeCab
- BlaBlaCar

Interpreting the Business Trends

Call for City Leadership
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Interpreting the Business Trends
In Our City: TNC Behavior

NYC Weekly Trips (Total TNC)

Data source: NYC Taxi and Limousine Commission (TLC)
Call for City Leadership

Interpreting the Business Trends

In Our City: TNC Behavior

NYC Trips Per Hour (Total TNC)
Transit and Shared Mobility

Shared mobility services may complement or compete with public transit depending on public policy or lack thereof.

Astoria’s six subway stations lost approximately 0.2 million trips in 2016 compared to 2016.
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Policy Implications

The key question is how to use a shared asset, public space, to optimally balance security, quality of life, mobility, sustainability, health in a totally new technological environment.

We will live in a new regulatory/behavioral environment that we are building now:
- Will we ban surface parking for autonomous vehicles?
- How will we use the public space made available?
- Create dedicated AV thoroughfares? What speed limits on different types of roads?
- Create data reporting requirements (e.g. all vehicles report identity, location and occupants every minute to a tax authority)?
SAVF Policy

• No regret choice
• Establishes City as rulemaker
• Equalizes game, favoring innovation
• Takes action on optimization, inclusion and equity

Shared Autonomous Vehicle Fleets
Leaping Ahead to procure a dedicated zone fleet of SAVs harmonized with metros, summoned via a common government-supported open hail platform.
Arcadis.

Improving quality of life.