The New Mobility

Mayor Joseph A. Curtatone
City of Somerville, MA

Mayor’s Innovation Project
Winter 2017 Meeting
January 17, 2017
We’re not sure why the thing works so well but the City’s vision, public input, and the old road go in that end and a people and business-friendly place comes out this end.

The Thing Is ...
Our City: 80,000 People, 4 Square Miles
Our Key Targets

3. Our Vision: The SomerVision Numbers

**SomerVision**
*It’s all about aspiration.*

Successful communities set goals that are both ambitious and achievable. The SomerVision Steering Committee worked to translate shared values into the SomerVision Numbers: a series of aspirational targets for economic development, open space improvement, housing growth, transportation, and land use. The SomerVision Numbers were carefully tested to make sure that they are consistent with the community’s shared values: balance, sustainability, affordability, and vitality.

**30,000 New Jobs** as part of a responsible plan to create opportunity for all Somerville workers and entrepreneurs.

**125 New Acres of Publicly-Accessible Open Space** as part of our realistic plan to provide high-quality and well-programmed community spaces.

**6,000 New Housing Units - 1,200 Permanently Affordable** as part of a sensitive plan to attract and retain Somerville’s best asset: its people.

**50% of New Trips via Transit, Bike, or Walking** as part of an equitable plan for access and circulation to and through the City.

**85% of New Development in Transformative Areas** as part of a predictable land use plan that protects neighborhood character.

*The SomerVision Numbers cannot be separated into parts and cannot be separated from the SomerVision Map in order to advocate for a specific action by the City. They must be viewed in the context of entire Comprehensive Plan including the backup information in Appendix 1 and Appendix 2.*

Somerville: an Exceptional Place to Live, Work, Play, and Raise a Family
Mobility is a Means to an End
...driven by community
Mobility is a Means to an End

Community Inventory

Greenhouse Gas Emissions Profile

- Building Energy: 2%
- Transportation: 34%
- Waste: 64%

Split of Transportation Emissions

- Trains: <1%
- Buses: 2%
- Personal Vehicles: 98%

January, 2016

City of Somerville
GREENHOUSE GAS INVENTORY REPORT

Environmental Sustainability
Public Health & Safety
Social Equity
Economic Vitality
Public Life
Mobility is a Means to an End

HEALTH IMPACT ASSESSMENT OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MassDOT) GROUNDING McGrath Study

7/1/2013 Massachusetts Department of Public Health Bureau of Environmental Health

COMMUNITY ASSESSMENT
OF FREEWAY EXPOSURE & HEALTH

SHAPE UP SOMERVILLE

Environmental Sustainability  Public Health & Safety  Social Equity  Economic Vitality  Public Life
Mobility is a Means to an End

- Environmental Sustainability
- Public Health & Safety
- Social Equity
- Economic Vitality
- Public Life
### Mobility is a Means to an End

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Mobility is a Means to an End

BEFORE

AFTER

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AV / CV Technology Must Fit In
Somerville’s Strategy: A Mobility Lab
Audi Urban Futures Partnership

Research Concept #1: Signal Systems

Adaptive Flow: Traffic Flow Management Technology

- Cameras on Traffic Signals
- TCC (Traffic Control Center)
- Audi Back End Data Center
- Smart Phone Sensors
ADAPTIVE FLOW: INVIGORATES THE MOBILITY CROSSROADS

NEW USES FOR ROADWAYS
Traffic management with SmartFlow reduces roadway width, makes space for busways, bike lanes, greenspace and improves experience for all - pedestrians as much as cars

NEW MODAL MIX BUILDS COMMUNITY
As modal choices and interactions increase, Union Square becomes a social, cultural and economic center

MOBILITY CROSSROADS BUILDS NEW ECONOMY
Connection replaces congestion, building the collaborations that drive the new economy

Urban Future Partnership Somerville 2016
Audi Urban Futures Partnership

Research Concept #2: Parking Systems

ADVANCED ARRIVAL: MINIMIZES THE FOOTPRINT OF PARKING

1. On Street Parking
   Decoupling car drop-off and parking

2. Search Traffic
   Reducing parking search traffic

3. PIOTED Parking
   Less space for parking, more room for quality of life in urban areas

4. Prime Real Estate
   Transforming parking space into high value urban assets

5. Drop Off
   Drop-off areas as hubs of buzzing urban life

6. PIOTED Link
   Moving parking to the backstage of the city
**ADVANCED ARRIVAL: TRANSFORMS URBAN DEVELOPMENT**

**MORE DEVELOPMENT, LOWER COST**
Efficient consolidated parking reduces cost, allows for more development, and encourages housing and workplace cost diversity.

**MORE CONVENIENCE, LESS CONGESTION**
Automated parking outside the core reduces congestion, encourages fleets and sharing, supports pedestrian activity.

**HUMAN SCALE, VARIETY**
Removing parking from buildings supports smaller and more varied building footprints, fewer mega blocks, and more varied streetscape.
Green light for self-driving car tests in Mass. — under certain conditions

Massachusetts officials said the state will issue permits for testing self-driving vehicle projects in Boston and other cities while lawmakers work on explicitly legalizing the rapidly developing technology.
1. New mobility technologies must adapt to established community values, not the other way around.

2. Cities engaging in AV testing need policies and procedures to ensure that vendors are reputable, experienced, and accountable.

3. At this early stage of AV testing, there is a tension between proprietary data and transparent reporting. Host cities have a right to know how test vehicles are performing.
Thank you.

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@JoeCurtatone

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