Harnessing Innovation for Lifelong Communities

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We have entered a time of profound and permanent change to the demographic composition of the United States.

By 2030 the U.S. will have twice as many people over the age of 65 as we have today.

Every day, 10,000 boomers turn 65.
ARC 10-County Shares of Total Population by Age Cohort 1990-2040

Sources: Census Bureau; ARC Series 15 Forecasts
Are communities ready?

American homes have traditionally been designed and built for able-bodied 35 year olds.

For the past 50 years, communities have developed around motor vehicles as the principal form of transportation.
If you could, would you move? And if so, where?

Source: ARC's 2018 Metro Atlanta Speaks Survey
What makes a community a great place to live?

The 8 Domains of Livability
Millennials and baby boomers want walkable, mixed-use neighborhoods.

Age doesn’t define us

- Well-maintained, safe and accessible streets: 80%
- Conveniently-located grocery stores: 82%
- Safe Parks: 83%
- Well-maintained health care facilities: 87%

Source: 2018 AARP Home and Community Preferences Survey: A National Survey of Adults Age 18+
1. **Walkable**
   - Sidewalks, crosswalks, intersections, few dead-end streets or cul-de-sacs.
   **Potential Benefits:**
   - Lower obesity rates.\(^1\)
   - Better self-rated health.\(^2\)
   - Lower rates of self-reported disabilities.\(^3\)

2. **Accessible**
   - Extensive, street-level public transportation and well-maintained streets and sidewalks.
   **Potential Benefits:**
   - More walking outdoors.\(^4\)
   - Fewer mobility problems among those with difficulty walking.\(^5\)

3. **Compact**
   - Diverse mix of residences and businesses in close proximity.
   **Potential Benefits:**
   - Less mobility disability.\(^6\)
   - More walking outside by those with disabilities.\(^7\)
   - Longer walks by older men.\(^8\)
   - Lower heart disease risk.\(^9\)

4. **Safe**
   - Residents consider their neighborhoods safe.
   **Potential Benefits:**
   - Greater likelihood of recovering from mobility limitations.\(^10\)
   - More outdoor physical activity.\(^11\)
   - More frequent and longer walks.\(^12\)

5. **Plentiful Resources**
   - Parks, libraries, community centers, well-kept public spaces.
   **Potential Benefits:**
   - Slower cognitive decline.\(^13\)

6. **Healthy Air**
   - Low levels of fine particulate matter pollution.
   **Potential Benefits:**
   - Higher cognitive function.\(^14\)

Source: Population Reference Bureau, 2017
The Livability Index scores neighborhoods and communities across the U.S. for the services and amenities that impact your life the most.

Search for your city or learn more about how we define livability.
TOTAL INDEX SCORE

48

Livability Score

CATEGORY SCORE

HOUSING
Affordability and access

67

NEIGHBORHOOD
Access to life, work, and play

59

TRANSPORTATION
Safe and convenient options

46

ENVIRONMENT
Clean air and water

23

HEALTH
Prevention, access and quality

55

ENGAGEMENT
Civic and social involvement

56

OPPORTUNITY
Inclusion and possibilities

27

DO MORE WITH THIS SCORE

Adjust category importance
Transportation Access

A Significant Concern of Residents Age 65+

"I frequently lack the transportation I need to get to the places I need to go."

Source: ARC’s 2018 Metro Atlanta Speaks Survey
Transportation Disruption
1/3 of Americans do not drive

- 1 in 5 people 65+
- Many w/disabilities
- Many low-income
- Children
- Others by choice
Result of our 2-Class Transportation System

- Advance reservation requirements
- Inadequate funding & programmatic rules => trip and trip purpose limits
- Unreliable pick-up/drop-off times
- Jurisdictional boundaries become arbitrary barriers
- Fragmentation
- Inefficiency due to rules & regulations
Autonomous vehicle technology is not a panacea
Universal Mobility as a service

- A single, integrated network of traditional and non-traditional services that together serve EVERYONE
- Universal Design
- With or without AVs

- One stop shopping
  - Easy Discovery
  - Easy Booking
  - Easy Mode Transfers
  - Easy Payment
Modernize Demand Responsive Transportation (DRT)
A Typical Human Services Coordination Process

• Healthcare referral to transportation coordinator via emailed form (patient name, address, phone number, appt date/time, destination facility)

• Transportation coordinator determines whether in service area

• Transportation coordinator calls patient to confirm appt date/time and gather info about patient and transportation need

• T. coordinator enters contact info, referral info, appt. date & time => trip sheet

• Transportation coordinator emails or faxes to transportation provider
FlexDanmark

www.aarpinternational.org/flexdanmark
<table>
<thead>
<tr>
<th>Flex</th>
<th>Patient</th>
<th>Municipality</th>
<th>Handicap</th>
<th>Route</th>
<th>Tur</th>
</tr>
</thead>
<tbody>
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<td>Plus</td>
<td>Tur</td>
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</tbody>
</table>
FlexDanmark

• “On-demand” transportation for all citizens
• 5.7 million annual trips
  • 15,000 trips/day on average
  • Peak day at +24,000 trips
  • 250,000+ returning customers every year
• 95% on-time performance defined as 15 min window
• Portal used by hospitals, medical offices, and human service agencies to connect clients to transportation
• High level of institutional coordination
  • 5 public transit authorities
  • 1 Nationwide system
  • 550+ providers (all private sector)
• Cost allocation built into the software
• Cost savings of 20-40%
• Automated interface and common data format
FlexDanmark

www.aarpinternational.org/flexdanmark
A Walled Garden Mobility Future

© CC BY-SA Kevin Chambers
An Open Platform Future

Example Open & Universal Mobility Platform Architecture

Types of “Open”

- Open Data
- Open Data Formats & APIs
- Open Source Software
- Proprietary Software/System

Public Transit Schedules

Regional Mobility Hub

Proprietary Map & Mobility Apps

TNCs

Lyft, Uber

Taxis

New Mobility

???

ADA Paratransit

Human Services & Medical Transportation

Community-Based Mobility Platform

Volunteer Driver Program

Veterans Transportation Program

Senior Center Shuttle
GTFS-Flex Spec

A common data format that allows customers to discover DRT service
G-16 Transactional Data Spec

A common data format that allows customers to schedule DRT service

Advanced Options

<table>
<thead>
<tr>
<th>Specialized Services</th>
<th>Wheelchair</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Services</td>
<td>I will travel with a companion</td>
</tr>
<tr>
<td>Special Vehicle Requirements</td>
<td>Lift equipped</td>
</tr>
<tr>
<td>Specialized Medical Travel</td>
<td>None</td>
</tr>
</tbody>
</table>

- Are you eligible for ADA Paratransit? [✓]
- Are you a veteran or active military? [ ]
- Are you a senior (age 60+)? [✓]

Save
AARP Livable Communities Websites

www.aarp.org/livable
www.aarp.org/livablepolicy
www.aarp.org/futureoftransportation
www.aarpinternational.org/flexdanmark

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Looking for more information?