Livable Communities

Where Will America’s Elders Live? Want to
Outline

- Key Trends – Arizona & US
- 4 Essentials: Elder Mobility
- Suggested Livable Community Criteria
Key Trends

Sustainable Communities
Arizona Population

- 2005: 6.2 M
- 2030: 10.7 M (+ 73%)
- 2050: 12.8 M (+ 106%)

Source: US Census Bureau, 12/08
Source of AZ Population Growth

Based on US Census Bureau data, 2000 - 2007

Net In-Migration 79%

Births 21%
Based on US Census Bureau data, 2000 - 2007

Source of AZ In-Migration

Other States 81%

Other Nations 19%
In-Migration – Ages 65 +

Net In-Migration per 1,000 Population > 65

US Census Bureau
Figure 4.
Net Migration Rates for the Population 65 Years and Over: 1995 to 2000

(Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see www.census.gov/prod/cen2000/doc/sf3.pdf)

Source: U.S. Census Bureau, Census 2000.
Retirement Preferences

Urban 51%
Suburban 19%
Rural 30%

Source: National Association of Realtors and Smart Growth America American Preference Survey 2004
Share of Family Income Spent On Housing & Transportation

Family Income = $35,000 - $50,000

Central City
- Housing: 23%
- Transportation: 16%
- Total: 39%

Near Jobs
- Housing: 26%
- Transportation: 23%
- Total: 49%

Away From Jobs
- Housing: 25%
- Transportation: 26%
- Total: 51%

Source: A Heavy Load, Center for Neighborhood Technology
Share of Family Income Spent On Housing & Transportation

Family Income = $20,000 - $35,000

Central City
- Housing: 32%
- Transportation: 22%
- Total: 54%

Near Jobs
- Housing: 35%
- Transportation: 31%
- Total: 66%

Away From Jobs
- Housing: 33%
- Transportation: 37%
- Total: 70%

Source: A Heavy Load, Center for Neighborhood Technology

- Housing: +15.4%
- Transportation: +13.4%
- Income: +10.3%

Source: A Heavy Load, Center for Neighborhood Technology
4 Essentials: Elder Mobility

Sustainable Communities
AARP: a livable community has:

- Affordable & appropriate housing
- Supportive community features & services
- Adequate mobility options

which together facilitate personal independence & the engagement of residents in civic and social life.
Livable Communities Model

Supportive community features & services

Adequate mobility options

Home
AARP: a livable community has:

- Affordable & appropriate housing
- Supportive community features & services
- Adequate mobility options

which together facilitate personal independence & the engagement of residents in civic and social life.
4 Essentials: Elder Mobility

1. Land use mix
2. Pedestrian supportive environment
3. Connected street network
4. High frequency transit service
1. Land Use Mix

4 Essentials: Elder Mobility
<table>
<thead>
<tr>
<th></th>
<th>Supportive Community Features &amp; Services</th>
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<tbody>
<tr>
<td>1.</td>
<td>Active Living</td>
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<td>2.</td>
<td>Third Places</td>
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<td>3.</td>
<td>Convenience Retail</td>
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<td>Provisions &amp; Services</td>
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<td>7.</td>
<td>Medical</td>
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<td>Cultural</td>
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</table>
1. Active Living

- Pedestrian-Oriented Environments
- Trails, Parks and Open Space
- Gyms and Exercise Facilities
2. Third Places

- Coffee Shops, Cafes
- Bookstores, Libraries
- Churches
- Bars
- Plazas, Parks
- Senior Centers
3. Convenience Retail

- Corner Market
- Convenience Store
4. Provisions & Services

- Grocery
- Bank
- Cleaners
5. Family

- Grandchildren
- Other Family Members
6. Shopping

- Hardware
- Clothing
- Book Store
- Optical
- Electronics
7. Medical

- Clinics, Doctors
- Hospitals
- Pharmacy
- Physical Therapy
- Opticians
- Other Specialists
8. Cultural

- Theater
- Movie Theater
- Museums
- Symphony
- Art Gallery
- Restaurants
# Destination Frequency

<table>
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<tr>
<th></th>
<th>Daily</th>
<th>Weekly</th>
<th>Monthly</th>
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Elder Means of Access

- Walking (and Bicycling)
- Frequent Fixed Route Transit (< 20 m)
- Auto Driver
- Infrequent Fixed Route Transit (> 60 m)
- Special Services Transit
- Auto Passenger
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Should be within walking distance
## Destination Frequency

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2. Pedestrian Supportive Environment

4 Essentials: Elder Mobility
Note: ADA & Universal Design
“Pedestrian-Friendly”
Pedestrian Environment Continuum

Pedestrian Place/District

Pedestrian Supportive Environment

Pedestrian Tolerant Environment

Pedestrian Intolerant Environment
Pedestrian Environment Factors

- Safety & Security
- Street Crossings
- Street Design – Scale, Speed
- Pedestrian Realm Design – Scale, Layout
- Urban Design – Street Walls, Bldg Scale
- Land Use Mix
- Trees, Canopies, Awnings
Pedestrian Survival Rates – ∫ Vehicle Speed

% survive

% die

20mph

30mph

40mph

100%

95%

5%

55%

45%

15%

85%
Pedestrian Place

Boulder
Pedestrian Place

Miami Beach, FL
Mt. Vernon, IA

Pedestrian Supportive
Pedestrian Supportive

Longmont - Prospect
Pedestrian Tolerant

Redmond
Pedestrian Tolerant
Pedestrian Tolerant

Maui

Pedestrian Tolerant
Pedestrian Tolerant
Pedestrian Intolerant
Pedestrian Intolerant
Pedestrian Intolerant
Pedestrian Intolerant
Walk Propensity

Utilitarian Trips

<table>
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<tr>
<th>Min</th>
<th>5</th>
<th>7</th>
<th>10</th>
<th>15</th>
<th>20</th>
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<td>50%</td>
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Walk Distances @ 250 fpm

- 5,000' in 20 min
- 3,750' in 15 min
- 2,500' in 10 min
- 1,250' in 5 min

- ¼ mile
- ½ mile
- 1 mile
Walk Distances @ 200 fpm

- 20 min: 4,000’
- 15 min: 3,000’
- 10 min: 2,000’
- 5 min: 1,000’

- ¼ mile
- ½ mile
- 1 mile
Walk Distances @ 150 fps

- 20 min: 3,000’
- 15 min: 2,250’
- 10 min: 1,500’
- 5 min: 750’

- ¼ mile
- ½ mile
- 1 mile
Walk Distances @ 100 fpm

- 20 min: 2,000’
- 15 min: 1,500’
- 10 min: 1,000’
- 5 min: 500’

- ¼ mile
- ½ mile
- 1 mile
3. *Connected Street Network*

4 Essentials: Elder Mobility
Windsor, CO – Old Town
Windsor, CO – After 1990
Path Index

Shortest feasible route on streets & trails

Straight line distance (as the crow flies)
5 – 7 Minute Walk

1. Active Living
2. Third Places
3. Convenience Retail
5 – 7 Minute Walk

Path Index:
1 to 1.4

¼ Mile
5 – 7 Minute Walk

Path Index:
1 to 4.5
4. High Frequency Transit Network

4 Essentials: Elder Mobility
High Frequency Transit Networks

- Peak service < 15 minute headways
- Network of routes
- Accessible vehicles
Boulder Community Transit Network
Community Transit Network
Boulder Community Transit Network
Portland, Oregon
Suggested Mobility Criteria

Livable Communities
Suggested Mobility Criteria

- **Mixed Use Development Pattern**
  - Minimum: active living + third places + convenience retail within ¼ mile

- **Pedestrian Environment**
  - Minimum: pedestrian supportive
  - No nearby highway or freeway barriers

- **Connected Networks**
  - Maximum 2.0 average path index (goal 1.4)
  - Minimum 150 intersections/sq mi (goal > 200)

- **High Frequency Transit Network**
  - Minimum: 15 minute peak service
  - Network, not radial hub & spoke
Walk Score:
62 out of 100
“Somewhat Walkable”
Mobility Criteria: ElderGrace

- Mixed Use Development Pattern – limited
- Pedestrian Supportive Environment - no
- Connected Networks – no
- High Frequency Transit Network - good
Thanking You
More Information

www.charlier.org