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A SCAN OF CURRENT PRACTICES

































BACKGROUND

Introduction
Study Goals
Age-Friendly NYC
Aging Population, Demographics, Trends
Challenges to Mobility

CASE STUDIES

Driving – Roadway Improvements and Licensing Policy Changes
Public Transportation, Taxis and For-hire vehicles
Pedestrian Improvements – Signage and Crosswalk Changes
Planning Tools – Smart Growth and Street Design
Innovative Technologies and Educational Programs

NEXT STEPS





The Department of City Planning predicts that in 20 years, New York City's shares of schoolchildren and older people will be about the same, 15 percent each, a sharp change from 1950, when schoolchildren outnumbered older residents by more than 2 to 1.

- Identify current mobility issues of older adults
- Help our city better address the mobility needs of its growing senior population
- Examine innovative solutions in transportation mobility and accessibility for an aging population
- Provide demographic information, travel patterns and trends supporting the projected growth of the 65 and over population
- Seek potential mobility solutions for older adults by examining 17 current practices within the United States and throughout the world.











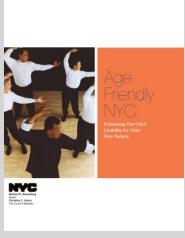












AGE-FRIENDLY NYC

59 initiatives in **4** categories:

Community and Civic Participation Housing

Public Spaces and Transportation Health and Social Services

Initiative #34 - "Conduct a study to better address the mobility needs of older New Yorkers."



MOBILITY INITIATIVES
FOR AN AGING POPULATION

17 current practices/case studies in 5 categories:

Driving
Public Transportation
Pedestrian
Smart Growth and Street Design
Innovation and Education

14 case studies echo initiatives outlined in *Age-Friendly NYC*.

























Americans over 65 represent the fastest growing population segment in the United States.

2000

35 million

2x

72.1 million



12.9%



19%

4.5 million

9.0 million



Aging Population Demographics and Trends: New York City



*the following graphics illustrate data from the 2000 U.S. Census and the Department of City Planning, Population Division projections for 2030

total

8.1

2000

13.9%

9.1⁵

2030

65+ population



FIGURE 2: Total Population by Borough

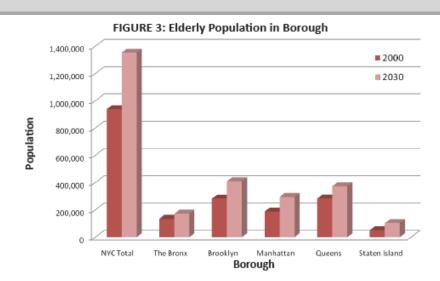
44%

Island



2000 10,000,000 9,000,000 2030 8,000,000 7,000,000 Population 6,000,000 5,000,000 4.000,000 3,000,000 2,000,000 1,000,000 0 NYCTotal The Bronx Brooklyn Manhattan Queens Staten

Borough





Impact of Aging on Mobility

Mobility impairments can result from many of the natural results of aging:



Planning for a future New York City that preserves the quality of life for the aging as well as ALL New Yorkers will need to take into account the above challenges, especially **loss of vision** and **changes in reaction time**, since they are two primary abilities that tend to decrease with age.





The case studies section of the report is divided into 5 categories: Driving, Public Transportation, Pedestrian, Planning Tools and Innovative Technology and Educational Programs

Within each section are current practices illustrating innovative solutions in transportation, mobility, and accessibility for an aging population that are currently in place within cities in the United States and other world cities. These practices address the challenges of our aging population.



DRIVING-ROADWAY IMPROVEMENTS AND LICENSING POLICY CHANGES

Showcase Roadway Project - DETROIT, MICHIGAN
20 MPH Zones - LONDON, ENGLAND
Elderly Licensing and Labeling Safety Policies - TOKYO, JAPAN



PUBLIC TRANSPORTATION, TAXIS AND FOR-HIRE VEHICLES

Step-Free Access - LONDON, ENGLAND
Access at the MBTA - BOSTON, MASSACHUSETTS
Accessible Taxis - LONDON, ENGLAND
ITN Portland - Dignified Transportation Services for Seniors- PORTLAND, MAINE



PEDESTRIAN IMPROVEMENTS-SIGNAGE AND CROSSWALK CHANGES

LED Crosswalk Signs - NAVAL STATION MAYPORT, FLORIDA Flashing Beacon and Ground Flashers - SAN JOSE, CALIFORNIA Pedestrian Actuated Crosswalk Flashers - KIRKLAND, WASHINGTON



PLANNING TOOLS - SMART GROWTH AND STREET DESIGN

Smart Growth and Transit-Oriented Development - PORTLAND, OREGON Russellville Park Transit-Oriented Development - PORTLAND, OREGON Complete Streets Policy - MASSACHUSETTS
Universal Design - NORWAY



INNOVATIVE TECHNOLOGIES AND EDUCATIONAL PROGRAMS

Active Aging Program - PORTLAND, OREGON
Car-Fit Program - UNITED STATES
Pedestrian Navigation System - JAPAN



DRIVING - Roadway Improvements and Licensing Policy Changes























Showcase Roadway Project
Detroit, Michigan
Improving roadway and street signage



20 MPH Zones
United Kingdom
lowering vehicle speeds greatly reduce serious injuries and fatalities



Elderly Licensing and the Vehicle Labeling Policy Tokyo, Japan setting new requirements for older drivers

DRIVING - Roadway Improvements and Licensing Policy Changes





















The Showcase Roadway Project (Detroit, Michigan)

Countdown Signals

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Clearview Font

V

Retroflectivity

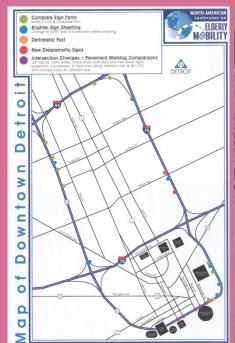
Increased Font Size

LED Lenses

Painted Curbs

NYC APPLICATIONS and Opportunities:

Clearview Font on street signs; Signage Improvements.









PUBLIC TRANSPORTATION, Taxis and For-Hire Vehicles



























Step-Free Access

London, England

adjustments to London's underground rail system to provide stepfree access

Access at the Massachusetts Bay Transportation Authority Boston, Massachusetts

Impact of class action lawsuit on MBTA and transit systems across the country

Accessible Taxis London, England

three taxi programs that provide alternative modes of transportation with on-demand options

The Independent Transportation Network

Portland, Maine

expands transit options by providing on-demand transportation by both paid and volunteer drivers

















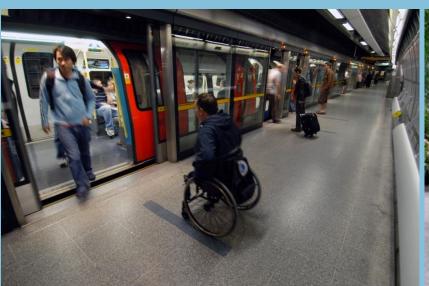


Step-Free Access

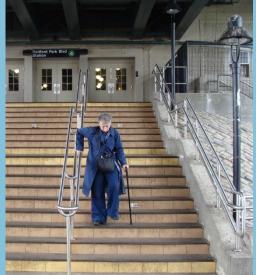
London, England

- -Remove all steps or barriers
- -Provide step-free access from street to platform wherever possible

- Currently 72 Stations are ADA accessible; 100 Key Stations will be accessible by 2020 (25 percent of stations)
- Increase reliability of escalator and elevator service.
- PlanNYC emphasizes improving access to existing transit by 2030.









PEDESTRIAN IMPROVEMENTS – Signage and Crosswalk Changes

























Flashing Beacons and Ground Flashers
San Jose California
observe yielding and braking at intersections in order to
provide more safety at crosswalks



Pedestrian Actuated Crosswalk Flashers Kirkland, Washington increasing safety by highlighting crosswalks





















LED Crosswalk Signs Flashing Beacons and Ground Flashers Pedestrian Actuated Crosswalk Flashers

- Elements of all three case studies could be combined to improve safety at crosswalks
- Flashing Beacons have been used near selected schools in NYC as a NYC DOT pilot project
- Pedestrian Actuated Crosswalks are located at 1500 intersections in NYC, but none of them incorporate embedded ground flashers









PLANNING TOOLS - Smart Growth and Street Design

























Smart Growth and Transit-Oriented Development Portland, Oregon

implementing policies that integrate housing, transportation and sustainability

The Russellville Park Transit-Oriented Development Portland, Oregon

transit-oriented development specifically aimed at growth designed for seniors

Complete Streets Policy Massachusetts promotes safely designed streets to benefit all users

Universal Design

Norway

applies the principles of Universal Design to the planning and design of spaces



PLANNING TOOLS - Smart Growth and Street Design



















Universal Design

- Applies the principles of Universal Design
- Planning and design of buildings, transportation facilities, public spaces, and information technologies to be usable by all people.

- Current law requires ADA access in new buildings
- Many buildings, public spaces, and transit facilities in NYC were built before ADA and are not required to provide universal access









Innovative Technologies and Educational Programs











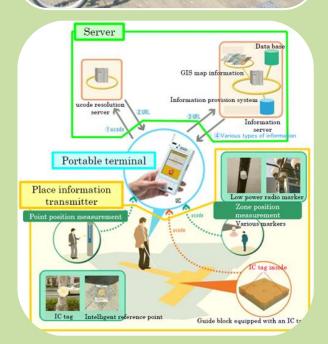












Active Aging Programs Portland, Oregon

provide programs for older adults that encourage cycling and walking to keep them mobile

The Car-Fit Program United States

educational program that offers older adults the opportunity to check how well their vehicles fit them to attain maximum comfort and safety

Pedestrian Navigation System Japan

incorporates technology to help older adults to navigate their surroundings safely whether they are driving, utilizing public transportation, or making other drivers aware of their presence





















Active Aging Programs (Portland, Oregon)

- provide programs for older adults that encourage cycling and walking to keep them mobile.

- The City Parks Foundation offers seniors over 60 recreation opportunities in nine parks throughout the City.
- Proposed senior exercise equipment in John Jay Park on Upper East Side.









Status of Case Studies and Their





















To be Considered in the Future	Planned or Pro- posed	Current	Age-Friendly NYC	Relates to Issue/ Initiative	
					DRIVING - ROADWAY IMPROVEMENTS AND LICENSING POLICY CHANGES
		•	•	31	Showcase Roadway Project - Detroit, Michigan
		•	•	30	20 MPH Zones - London, England
•					Elderly Licensing and Labeling Safety Policies - Tokyo, Japan
					PUBLIC TRANSPORTATION, TAXIS, AND FOR-HIRE VEHICLES
		•	•	23	Step-Free Access - London, England
		•	•	23	Access at the MBTA - Boston, Massachusetts
	•		•	24, 25, 26, 27	Accessible Taxis - London, England
•			•	24	ITN Portland - Dignified Transportation Services - Portland, Maine
					PEDESTRIAN IMPROVEMENTS - SIGNAGE AND CROSSWALK CHANGES
•			•	31	LED Crosswalk Signs - Naval Station Mayport, Florida
•		•	•	31	Flashing Beacon and Ground Flashers - San Jose, California
•		•	•	31	Pedestrian Actuated Crosswalk Flashers - Kirkland, Washington
					PLANNING TOOLS - SMART GROWTH AND STREET DESIGN
	•		•	22, 34	Smart Growth and Transit-Oriented Development - Portland, Oregon
	•		•	34	Russellville Park Transit-Oriented Development - Portland, Oregon
		•	•	31	Complete Streets Policy - Massachusetts
		•	•	35	Universal Design - Norway
					INNOVATIVE TECHNOLOGIES AND EDUCATIONAL PROGRAMS
		•	•	38	Active Aging Programs - Portland, Oregon
•		•			Car-Fit Program - United States
•					Pedestrian Navigation System - Japan





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- Update demographic analysis using the 2010 census
- Analyze possible application/implementation of case studies in neighborhoods with high concentrations of older residents
- Investigate additional current mobility practices that could be applicable to NYC
- Create a compendium of information on aging and mobility to serve as a reference for all relevant agencies
- Continue nurturing an age-integrated society by supporting, enhancing, and implementing mobility improvements for the increasing population of older New Yorkers.