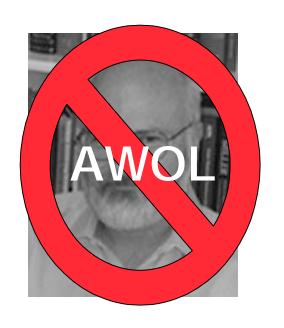
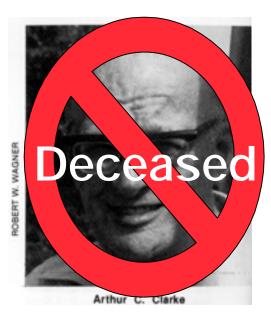




Pick your presenter from the lineup:



Arthur C. Nelson



Arthur C. Clarke



David A. Goldberg

Themes

- Growth is coming → and you can't duck it
- America's metropolitan areas are merging
- Demographics are changing needs profoundly
- Most growth will be redevelopment
- Metropolitan areas can accommodate large share of all growth on existing parking lots
 - with room for parking if we are smart
- Sustainability in plausible
- America can manage the next 100 Million sustainably (but what about the first 300 million?



America Grows

200 million in 1968

300 million in 2006

400 million in 2032

500 million in 2050

America adds 100 million people faster than any other nation except India and Pakistan – But *faster* than China.

Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech.



Getting Ahead of the Curve

<u>US</u>	2000	2040
Population	281 million	433 million
Housing Units	116 million	178 million
<u>Jobs</u>	166 million	249 million

Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech



Residential Development

<u>US</u>

Growth-Related Units

Replaced Units

Total Units

2000 to 2040

50 million

39 million*

89 million

*Loss rate =~ 6% per decade compounded.

Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech



Nonresidential Development

US2000 to 2040Growth-Related Square Feet33 billionReplaced Square Feet94 billion*Total Square Feet127 billion

*Loss rate =~ 24% per decade compounded.

Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech

Life-Span of Building Function



Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech based on DoE Commercial Buildings Energy Consumption Survey.



Bottom Line New Construction 2000-2040

Construction

Residential

Nonresidential

Infrastructure

Total

\$24 Trillion

\$22 Trillion

\$ 9 Trillion

\$55 Trillion



How Does It Grow?



What is the Resale Market Telling Us?

- <u>Resale</u> price analysis better than new sale analysis as it strips out the "sizzle".
- Resale prices of condominiums are approaching resale prices of single-family homes for first time ever
- Appreciation of condominiums is higher than single-family homes nationally and every region



Emerging Resale Price Evidence Trends 2007

Region	SF%	CC%
US	-1.2%	1.9%
NE	2.4%	2.9%
MW	-3.2%	4.2%
S	-2.1%	0.8%
W	-1.5%	0.0%

SF includes detached and townhouse units. CC includes condominium and cooperative units.

Source: Adapted from National Association of Realtors, March 2008, by Arthur C. Nelson, Metropolitan Institute at Virginia Tech.

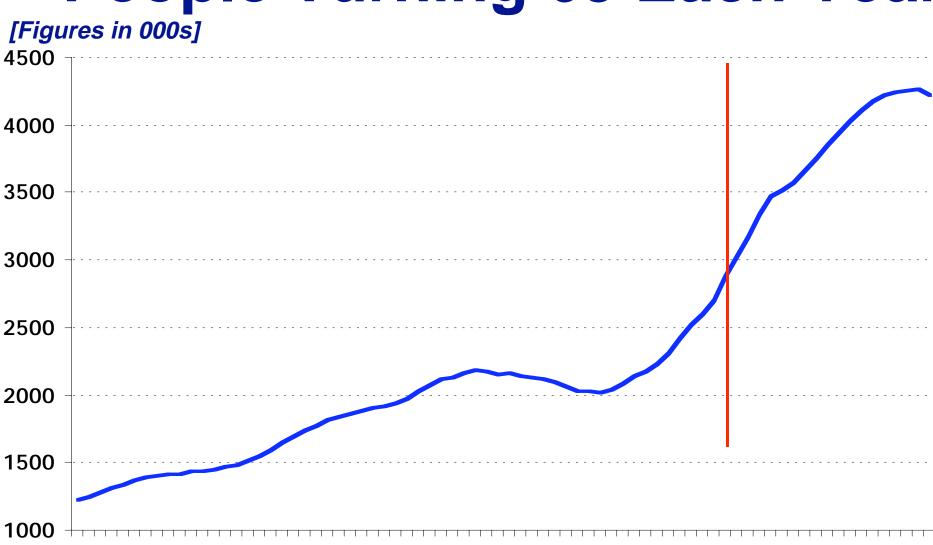


"Traditional" Households on the Wane

Household Type	1960	2000	2040
HH with Children	48%	33%	28%
HH without Children	52%	67 %	72%
Single-Person HH	13%	27%	29%

Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech.

People Turning 65 Each Year



Source: US Census Bureau - 65+ in the United States: 2005; Wan He, Manisha Sengupta, Victoria A. Velkoff, & Kimberly A DeBarros. December 2005.

2965 2960 2965 2970 2975 2980 2985 2990 2995 2090 2095 2010 2015 2020



Share of Growth 2000-2040

HH Type	<u>Growth</u>	Share	
With children	9M	15%	
Single-person	21M	34%	
Without children	<u>52M</u>	85%	
Total new households	61M		

Figures in millions of households.

Source: Adapted and extrapolated from Martha Farnsworth Riche, How Changes in the Nation's Age and Household Structure Will Reshape Housing Demand in the 21st Century, HUD (2003).



What Futurists Tell Us

Bio-medical advances extend lifetimes. Insurance actuarial tables extend to 120.

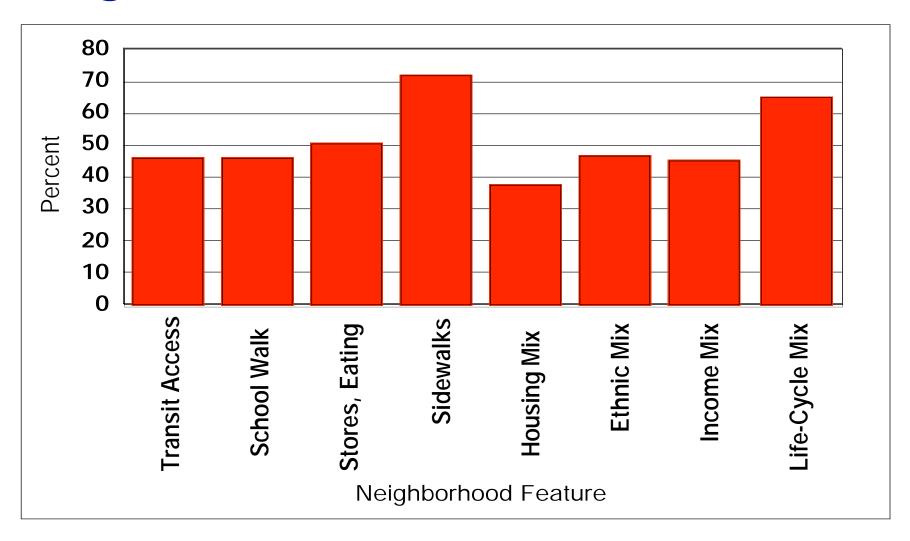
Another 20 years added – minimum ->
Census says 76 to 96

Adulthood nearing 75% without childrearing

Gen-X & -Y making "family" location decisions differently from their parents

70

Neighborhood Feature Preferences



Source: National Association of Realtors, American Preference Survey 2004.



Unmet Walkable Demand

Residential Form	Boston	<u>Atlanta</u>
% want drivable suburbs	30%	41%
% of those who have	<i>85</i> %	95%
% want walkable suburbs	40%	29%
% of those who have	<i>70%</i>	<i>35%</i>

Source: Jonathan Levine, Zoned Out, Resources for the Future, 2006.



Retired Location Preference

In a city	14%
In a suburb close to a city	37%
Total "urban"	<i>51</i> %
In a suburb away from a city	19%
In a rural community	30%

Suburbs away from cities are the losers

Source: National Association of Realtors & Smart Growth America, American Preference Survey 2004.



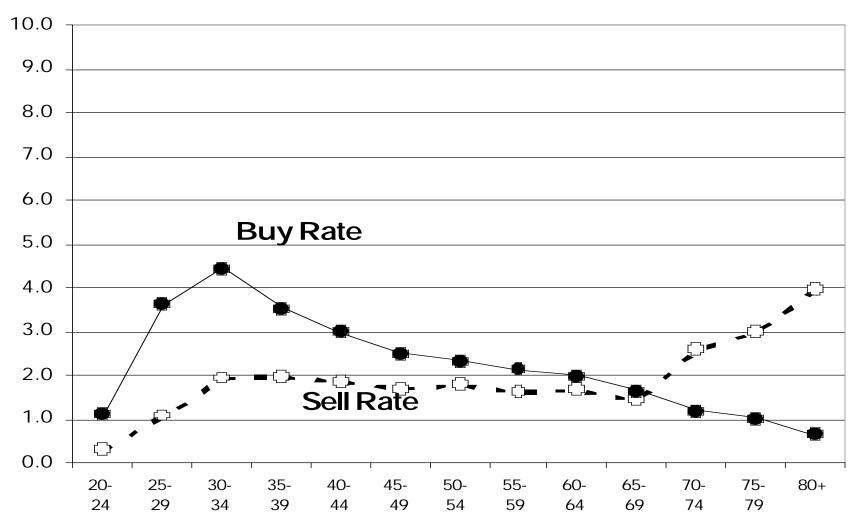
Housing Type Choices of Seniors

Housing Type	All Seniors	Senior Movers
Detached	69%	35%
Attached	24%	54%
Owner	80%	41%

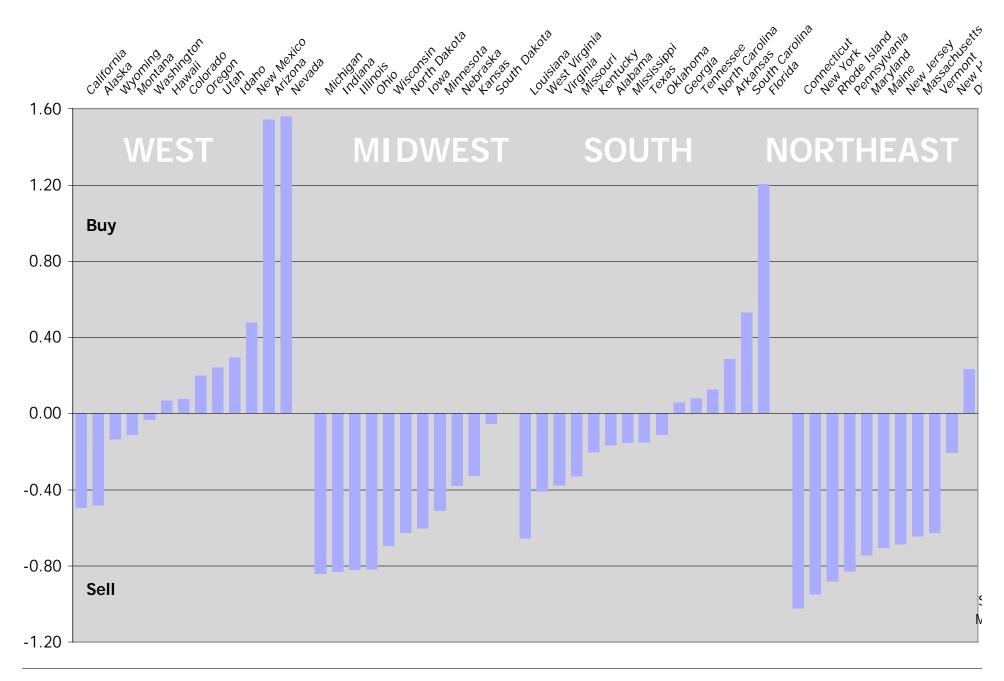
Source: American Housing Survey 2003. New movers means moved in past year. Annual senior movers are about 5% of all senior households; 75%+ of all senior will change housing type between ages 65 and 80.

Buy-Sell Rates by Age Cohort

AHS



Source: Dowell Myers & SungHo Ryu, "Aging Baby Boomers and the Generational Housing Bubble: Foresight and Mitigation of an Epic Transition", Journal of the American Planning Association 74(1): 1-17 (2007).



Source: Dowell Myers & SungHo Ryu, "Aging Baby Boomers and the Generational Housing Bubble: Foresight and Mitigation of an Epic Transition", Journal of the American Planning Association 74(1): 1-17 (2007). Figures for net buying or selling rate age.

Housing Preference Surveys by Type, 1995-2004

Share
38%
14%
9%*
15%
62%
37%
25%

Source: Low range of surveys reviewed by Arthur C. Nelson, "Planning for a New Era," Journal of the American Planning Association, Fall 2006.

^{*}Toll Brothers shifting product mix to 15% condominium; WSJ 12/06.

М

Trend Demand 2005 - 2040

50% Attached (apartment, TH, condo, etc.) 30% Detached small/cluster/zero-lot 20% Conventional large-lot subdivision

80% = Traditional Urban Density

Even in Plano, Texas



Large-Lot Oversupply 2030

	Supply	Preference	Mid-Point
Unit Type	2005	<u>Change</u>	Change
Attached	39M	15M	13M
Small Lot	12M	40M	22M
Large Lot	58M	- 23M	- 3M

Large lots subdivided, redeveloped = 7M.

Figures in millions of units.

Preference change based on low-range of preference survey averages.

Mid-point is mid-percentage distribution between 2005 and low-range estimate of preference surveys and supply of occupied units in 2005.



Unmet Smart Growth Demand

One-third of households want smart growth^a
165M households in 2040 @ 33% = 55M
New housing demand 2000-2040 = 50M units
If all new dwelling units were "smart growth" new supply would not meet demand.

Next 100 million = 33% smart growth demand

^aGregg Logan, EPA Large-Production Builders Conference, January 31, 2007.

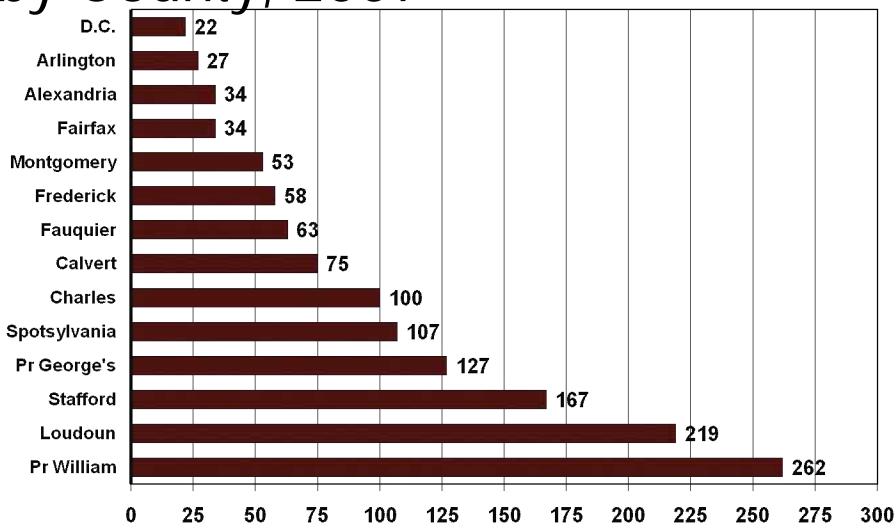


Emerging Housing Realities

- Short-term housing production out of synch with long-term demand
- Growing demand for housing accessible to transit but transit supply is lagging
- Millions of homes at the fringe may soon not be worth their mortgages
- Detached second home demand falling every decade
- Inducing home-ownership may be harming millions

Metro DC Foreclosure Rates

by County, 2007



Source: RealtyTrac, Center for Regional Analysis





Tear Up a Parking Lot, Rebuild Paradise

Large, flat and well drained

Major infrastructure in place

4+ lane highway frontage → "transit-ready"

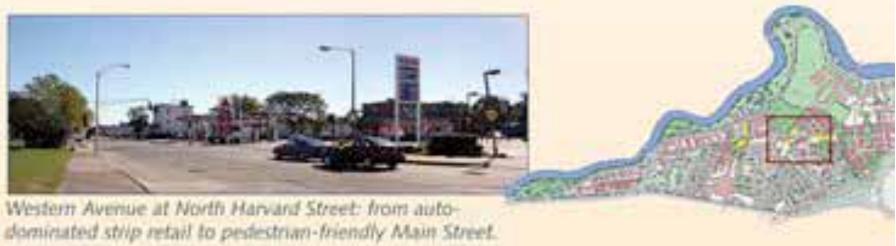
"Kelo" problems avoided

Committed to commercial/mixed use

Can turn NIMBYs into YIMBYs

Slide title phrase adapted from Joni Mitchell, *Big Yellow Taxi*, refrain: "Pave over paradise, put up a parking lot."

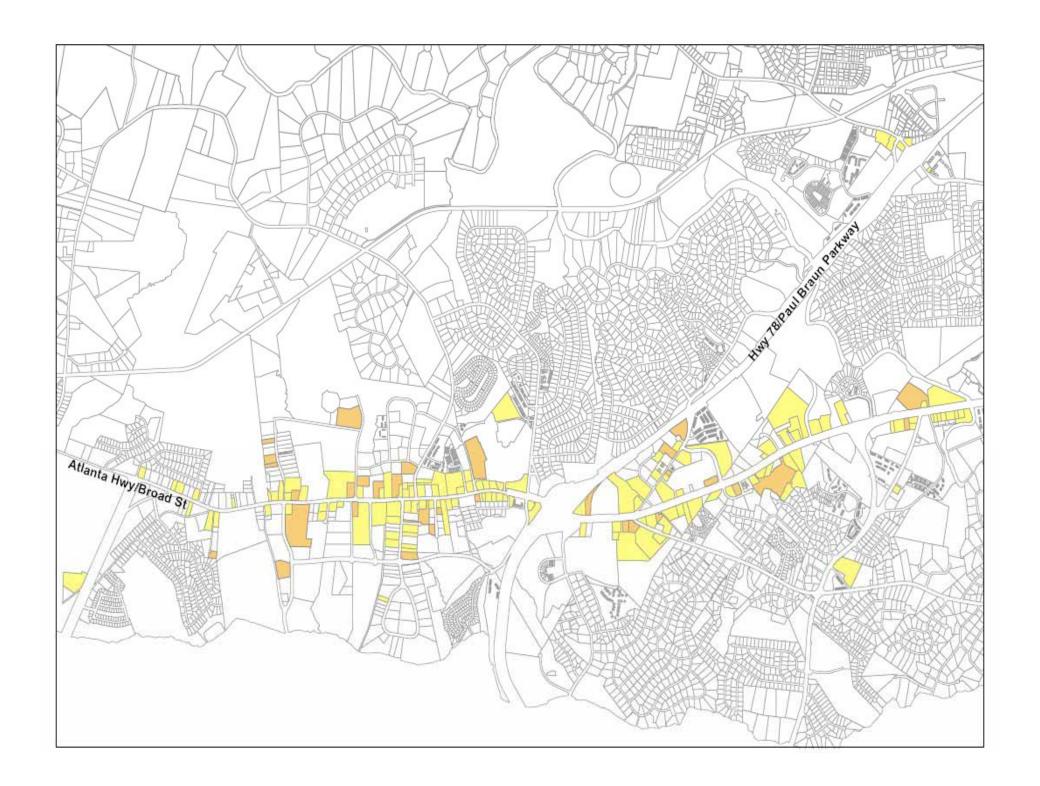






Actions Needed

- Systematically evaluate low-FAR areas for their conversion ripeness over planning horizon
- Estimate share of growth conversion can accommodate feasibly
- Evaluate feasibility of creating transit corridors
- Engage stakeholders now to create "sector" and "form-based code" plans to grease the future
- Explore win-win financial tools to bridge nearterm rate-of-return gap for long term gain







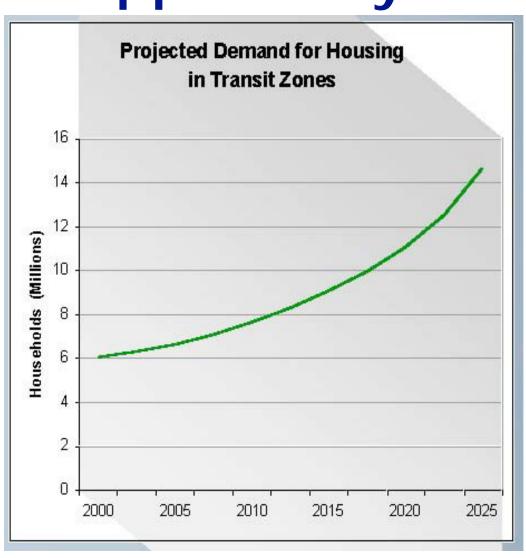
U.S. Re-Building Capacity

Calculation	Result
"Ripe" Redevelopment Acres by 2040	6.0M
Minimum Share Redeveloped	25%
Redeveloped Acres	1.5M
15-25 dwellings @ 1,800sq.ft.	
30-50 jobs @ 500sq.ft.	1.5FAR
Percent Residential Absorption	min. 67%
Percent Employment Absorption	min. 75%



National TOD Opportunity

Rail transit accessed 6M HH in 2000 By 2025 existing & planned rail may access 15M HH By 2040 rail may access 30M HH 60% of total new housing needed



Source: Figure from Reconnecting America, Realizing the Potential: Expanding Housing Opportunities Near Transit.

Re/Development Opportunity

Underdeveloped Parcels in ½ Mile Station Areas (BLACK)

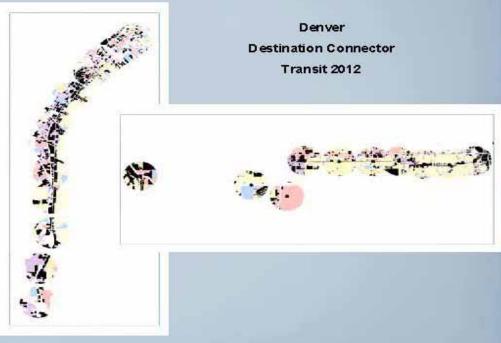
Boston Commuter Corridor Transit 1986, Future Expansion



Minneapolis Destination Connector Transit 2004



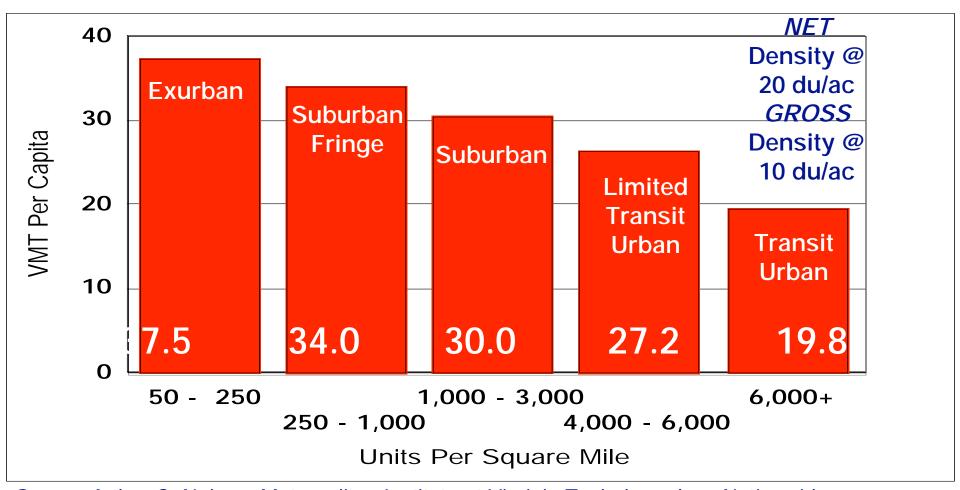
Charlotte
Planned Growth Corridor
Transit 2008



	Boston	Portland	Minneapolis	Charlotte	Denver
Total Stations in Corridor	9	38	17	15	11
Underutilized Acreage in 1/2M Radius of Each Station	345 acres	N/A	542 acres	1,295 acres	1,026 acres
"Ripe" for redevelopme	ent by 2040	14,000	6,000	5,500	4,000
Metro growth absorbed	@ 3.0 FAR	50%	35%	35%	20%

Source: Figure from Reconnecting America, Realizing the Potential: Expanding Housing Opportunities Near Transit.

Suburban Center + TOD Densities Offset VMT Gains of Growth



Source: Arthur C. Nelson, Metropolitan Institute at Virginia Tech, based on *Nationwide Household Transportation Survey*, USDOT, 2001. Figure is VMT per driver.

Invest Where People Want to Be

- Half the population (NAR) and 70+% of seniors want transit options (AARP)
- ULI, PriceWaterhouseCoopers, others advise:
 - Do not invest in suburban fringe
 - Highest rates of return in redevelopment, infill
- Understand changing preferences →
 - Affluent elderly who want urbane opportunities
 - Growing number want to raise children in urbane settings
 - Longer life spans increase adult-oriented preferences
- 33% and growing share want "green" living in more dense urban/suburban areas



Adding "fuel" to an existing trend



March 3, 2008

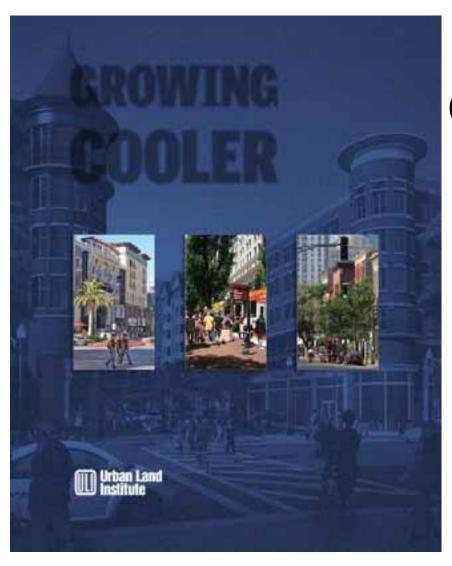
PAGE ONE

Americans Start to Curb Their Thirst for Gasoline

By ANA CAMPOY

March 3, 2008; Page A1

As crude-oil prices climb to historic highs, steep gasoline prices and the weak economy are beginning to curb Americans' gasguzzling ways. "The housing boom encouraged the development of far-flung suburbs, contributing to longer commutes. Now developers are building more walkable neighborhoods close to city centers and public transit, and Americans are beginning to migrate back toward their workplaces, city planners and other experts say."



Growing Cooler: The Evidence on Urban Development and Climate Change

Now available!

THANK YOU!

Contact me:

Dgoldberg@smartgrowthamerica.org

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