

40 Years of Smart Growth

Arlington County's Experience with Transit Oriented Development in the Rosslyn-Ballston Metro Corridor



A Presentation by Robert Brosnan Arlington County Planning Director For South Korea April 2012

PRESENTATION OVERVIEW

- Review of Smart Growth Principles in the US
- Review of Arlington's efforts to embrace those principles and use transit to both redevelop an older commercial corridor and ensure future riders for the system
- How we planned and some of the tools we used
- Identify some of the successes and lessons learned







TRANSIT ORIENTED DEVELOPMENT

- TOD and Smart Growth are current "buzz" words representing the desire for another form of growth
- Arlington has been in the forefront of this trend for over 40 years



Smart Growth

- Many American cities and regions are at a crisis point
- We know we can't continue to grow as in the past
- It's too expensive to serve
- Work and home trips take too long and must always be via car
- Roads are often clogged



Traditional Development





Traditional Development







Development Today

Vacant stores and parking lots



Where's the bus stop





More Sustainable Patterns











What is Smart Growth?

Smart growth is well-planned development that protects open space and farmland, revitalizes communities, keeps housing affordable and provides more transportation choices.



Ten Principles of Smart Growth

- Mix land uses
- Take advantage of compact building design
- Create a range of housing opportunities and choices
- Create walkable neighborhoods
- Foster distinctive, attractive communities with a strong sense of place



Ten Principles of Smart Growth

- Preserve open space, farmland, natural beauty, and critical environmental areas
- Strengthen and direct development towards existing communities
- Provide a variety of transportation choices
- Make development decisions predictable, fair, and cost effective
- Encourage community and stakeholder collaboration in development decisions



What Smart Growth "Is" and "Is Not"

More transportation choices and less traffic	Not against cars and roads
Vibrant cities, suburbs and towns	<u>Not</u> anti-suburban
Wider variety of housing choices	Not about telling people where or how to live
Well-planned growth that improves quality of life	<u>Not</u> against growth



Planning in the United States

First – a planning primer

- Planning done primarily at the local level
- Zoning done at the local level
- Most development done by <u>private</u> <u>developers</u> and mostly includes privately owned property not government property



Planning in the United States

While it is true that the real estate industry help determine and develop the use of private land – THE MARKET

The local government is the BODY with an opportunity to coordinate the overall pattern of physical development of the community thru the plan



Planning And Development Process





We Plan at the Local Level

Why we do it

- Coordinate activities and services
- To be fiscally efficient
- To control or influence what the future looks like
- To match goals with outcomesTo understand our community



We Plan at the Local Level

Why we do it

The buildings, facilities and improvements provided by a city affect the daily lives of many

- Give form to the community
- And either stimulate or retard development on privately owned land



We Plan at the Local Level

 And Maybe Most Importantly
To coordinate investments in public projects such as transportation, streets, water and sewer

These are costly systems and Smart Growth and Planning is all about making these systems more efficient and effective

Arlington

Takes us to Arlington

- Have embraced these concepts and provide an excellent example on how it can be done
- Maybe at a slightly different scale but still some valuable lessons



Arlington Overview

- 25.8 square miles
- Population 211,700 (2012)
- Employment 227,500 (2012)
- Housing Units 105,404 (2010)
- Daytime Population 283,000 (2010)
- 11 Metrorail Stations





SETTING THE STAGE

 Located in the core of a rapidly growing Washington region (over 5 million residents, 3 million jobs and 1,200 sq. miles of urbanized area)





SETTING THE STAGE

- 1960 7.5 million sq. Ft. Office
- Declining retail corridors
- Emerging market for government office space
- Strong single family neighborhoods
- Large number of garden apartments, some of which were beginning to decline
- 97,505 jobs
- 71,230 housing units





ROSSLYN THEN







COURT HOUSE THEN







CLARENDON 1980s





CLARENDON - ARLINGTON'S OLD DOWNTOWN









ARLI

VIRGINIA SQUARE 70s





VIRGINIA SQUARE – 1970s





BALLSTON - THEN







SETTING THE STAGE

- Beginning of the planning for a regional transit system
- Embarked on an ambitious community planning effort
- Had already debated the impacts of development vs the benefits of growth and decided we wanted to encourage growth as well as encourage riders





Regional Traffic

- There was also a growing recognition of a regional traffic issue
- Strong economic growth in the region had led to gridlock and the need for investment in new roads and forms of transportation.
- Arlington saw an opportunity to capture growth but plan it such that it would be served by transit – NOT CARS



PROPOSED ROUTE

• Arlington lobbied strongly for an underground route along the old commercial corridor vs along the median of future highway





Development Concepts





- Concentrate high and middensity redevelopment around transit stations (highly targeted) and taper down to existing neighborhoods
- Encourage a mix of uses and services in station areas
- Create high quality pedestrian environments and enhanced open space
- Preserve and reinvest in established residential neighborhoods

Transportation Concepts







- Emphasize community walkability
- Maximize travel choice for residents, workers and visitors
- Provide comprehensive and easy to access information about travel options
- Employ transportation demand management strategies
- Manage curb-space and parking efficiently
- Emphasize multi-modal street operations



SECTOR PLANS

- Adopted a corridor-wide GLUP based on agreed-to development goals
- Then focused on developing sector plans to create distinctive "urban villages"
 - Overall vision for each station area
 - Desired public improvements
 - Location for retail
 - Urban design standards







SECTOR PLANS

- Public infrastructure needs
- Open space, streetscape standards
- Each focused on an area of approximately 1/4 mile to ¹/₂ mile from the metro station






KEY TO SUCCESS



Chose to concentrate development

- 11 % of county (2 rail corridors) were replanned to encourage mixed-use, high density development
- 89% of county planned low residential, garden apartment/TH or retail



- Incentive Zoning GLUP for metro corridors indicated the county's willingness to rezone for higher density but land remained zoned for fairly low density
- In response to development proposals, county would rezone for higher density use shown on GLUP
- Most development requires County Board approval
- Zoning allows flexibility but is tied to the GLUP and the adopted sector Plans in terms of uses, density, height and design





The site plan allows significantly higher density & height than underlying zoning

<u>By-right</u>	<u>Site Plan</u>
1.5 FAR	3.8 – 10 FAR
35-45 FT	100-300 FT
4 spaces	2 spaces per
per 1,000 SF	per 1,000 SF

* FAR is a measure of development intensity based on site area – so 3.8
 FAR is 3.8 times the site area



- Site plan is approved only if:
- It complies with the standards of the zoning ordinance,
- Is in compliance with the mix required by the GLUP

Provides the features called for in the sector plan for the area including public improvements

Matches the FORM identified in the Sector Plan



SITE PLAN

- Increased density in return for
 - Building the development we want
 - Where we want it
 - And building significant amount of the required and desired public improvements







ROSSLYN TODAY





ROSSLYN TODAY



C-O Rosslyn Development: 10 FAR





ROSSLYN TODAY





ROSSLYN TOMORROW









AERIAL - COURTHOUSE TODAY





COURTHOUSE TODAY









CLARENDON TODAY



A R L I N G

CLARENDON TODAY





CLARENDON TODAY









VIRGINIA SQUARE TODAY









VIRGINIA SQUARE TODAY





BALLSTON TODAY





BALLSTON TODAY













Ballston Today







Ballston in 1980

Station Entrance





View of Rosslyn-Ballston Metro Corridor Development Patterns



MEASURING SUCCESS R-B CORRIDOR





METRO CORRIDORS TOTAL



Both Metro Corridors

- 34,639,784 sq. ft.
 office w/ 638,519
 under construction
- 65,500 housing units w/ another 954 under construction
- Retail 5,524,320
- Jobs 148,977



METRO RIDERSHIP (Average daily entries and exits)

<u>1991</u> ROSSLYN 13,637 **COURT HOUSE** 5,561 **CLARENDON** 2,964 BALLSTON 9,482

<u>2010</u> ROSSLYN **33,891 COURT HOUSE** 14,640 **CLARENDON** 8,617 BALLSTON 23,641



ARLINGTON METRO RIDERSHIP







BALANCED DEVELOPMENT = BALANCED RIDERSHIP (2011)



PEDESTRIAN ACCESS

76% WALK TO STATION

5 R-B Corridor Stations (2007)





Measuring Success



Source: Population and Employment Estimates from PRAT in Arlington CPHD. Development Intensity is calculated by taking the number of jobs and people and dividing it by the area of the appropriate census block. 2010 data are estimates derived by PRAT that represent January 1, 2010. Census blocks are fromom the 2000 census.



Source: Round 8.0 Forecast from the PRAT Arlington CPHD. Development Intensity is calculated by taking the number of jobs and people and dividing it by the area of the appropriate census block. 2040 data are derived from the Round 8.0 forecast. Census blocks are from the 2000 census.



Balanced Development





 Car ownership (vehicles per household)
 Nationally, almost 90% have a car; 55% have 2 or more
 Arlington: 12% have zero cars; less than 40% have 2 or more

Source – 2000 Census



- Numbers are more dramatic in Arlington's Metro corridors
 - Car ownership: 11.8% have zero cars, while less than 38% have 2 or more
 - Getting to work: Less than half drive
 - 41.6% use transit
 - 8.7% walk or bike
 - 3.2 work at home



Non-Work Travel Mode



Q J-7, J-8, J-13 What type or types of transportation did you use for <these trips>?



Public Transportation for Commuting (2005)





MEASURING SUCCESS- Transit Ridership Trends

Arlington-Related Trips

	FY1996 Actual	FY 2001 Actual	FY 2008 Estimate	% Growth
Metrorail – Arlington Stations	45,335,000	56,278,412	65,500,000	44.5%
Metrobus – Arlington Routes	12,049,000	11,614,599	15,500,000	28.6%
VRE – Crystal City Station	567,000	586,069	950,000	67.5%
Arlington Transit (ART)	105,000	147,813	1,225,400 (actual)	1167%
Total Annual Ridership	58,076,000	68,626,893	83,175,000	43.2%



Station Proximity is Important

Transit Rates are affected by distance to station Work Based

Transit % 0-2 Blocks	40%
Transit % 3-5 Blocks	43%
Transit % 6-10 Blocks	25%
Transit % >10 Blocks	11%


Station Proximity is Important

Transit Rates are affected by distance to station Home Based

Transit % < 1/2 Mile	51%
Transit % > 1 Mile	16%



Limiting Parking

2008 Survey found

- Drive alone rates increased when more parking was available ranging from 40% where the ratio was .25 spaces per employee to 67 % with a ratio of .91 or more.
- When parking rates increased to over \$100 a month drive alone rates dropped from 65% to 54% and dropped to 30% when the rate grew to \$125



Development Approval Trend 2001-2011



Traffic Trends on Arterial Streets

Street Segment	Street Type	1996	2001	2006	% Change 1996-2006
Lee Hwy - Rosslyn	EW 6-lane arterial	37,770	33,632	32,428	-14.1%
Wash. Blvd – VA Sq.	EW 4-lane arterial	20,469	19,478	18,069	-11.8%
Clarendon Blvd.	EW 2-lane 1- way arterial	13,980	14,199	14,539	4%
Wilson Blvd Clarendon	EW 2-lane 1- way arterial	16,368	16,265	13,797	-15.8%
Arlington Blvd.	EW 6-lane arterial	55,865	63,272	60,223	7.8%
Glebe Road - Ballston	NS 6-lane arterial	35,230	39,409	35,900	1.2%
G. Mason Drive – west of Ballston	NS 4-lane arterial	20,002	22,578	23,386	16.9%

A R L I N G T O

Traffic Trends – Regional & Local Facilities



 Substantial growth in traffic volumes on regional limited access highways, with most of the growth between 1980 and 1990

 Modest growth in traffic on arterial and local streets which has flattened out in the last 10 years (averaging less than ½% per year on many streets)

- \$27.5 billion of a total \$57.5 billion in assessed land and improvements value in the county is in the metro corridors which is 11% of total land
- Today Arlington has more office space than downtown
 - Dallas
 - Los Angeles
 - Denver
 - Boston



EPA SMART GROWTH AWARD



National Award for Smart Growth Achievement

For effective planning, policies and **Overall Excellence in Smart Growth**, the U.S. Environmental Protection Agency recognizes the

Arlington County Government

for Smart Growth in the Rosslyn-Ballston Metro Corridor. This exceptional example of planning and implementation demonstrates a commitment to growth that makes sense for our environment, our economy, and our communities.



Christine Todd Whitman Administrator

November 18, 2002 Date



OTHER AWARDS

- League of American Bicyclists --Bicycle Friendly Community designation
- APTA -- Outstanding Public Transportation System Award (for ART)
- American Podiatric Association --Best Walking City in America
- APA Great Streets Award



LESSONS LEARNED

- Transit investments can be used as a catalyst to reshape communities
- Multimodal transportation strategies can result in substantial benefits – allowing continued growth with less reliance on autos
- Establish the vision, design supportive public policies/plans and tools and be patient
- Build community consensus



LESSON LEARNED

- Ensure that transit is integrated with development – not secondary
- An attractive and functional pedestrian environment is important
- Develop public-private partnerships to continue consensus building and assist in the implementation
- Integrity of plan be consistent
- Do the detailed planning at the sector area to avoid the battles at development review time



LESSON LEARNED

- Station areas must be able to satisfy the daily needs of users if they are to really to leave their cars behind (mixed use)
- Reduce parking requirements
- Concentrate development near the station with office being the closest



REFINING THE VISION -CHALLENGES

- Affordable housing
- Expansion of transportation options
- Energy and Sustainability
- Regional Growth



REFINING THE VISION -CHALLENGES

Affordable housing

- 22,000 new market rate units in R-B since 1980
- Few affordable
- New tools
 - Special affordable housing protection district
 - Incentive 25 % bonus
 - State enabled mandatory contribution
 - Fund non-profit partners



Expansion of Transportation Options

- 99% of Arlington residents live within 1 mile of a bus stop
- Continued investments in expanding Metrorail Station access
- Enhanced integration of bus transit facilities and operations into street design
- Integration of high-capacity surface transit (BRT/streetcar) on selected streets
- Expanding high-frequency local transit service











Energy and Sustainability

Many aspects

- First investment in transit options to minimize SOV and emissions
- Second focus on LEED incentivized buildings being LEED certified
- Third focus on energy efficiency of buildings
- Fourth Community Energy Plan



Insatiable Appetite for Energy

About 70% of it in Cities





Community Energy Project: Background

Competitiveness

Energy costEmploymentInvestment



Security

Supply security
 Supply quality
 Flexibility

Environment

Greenhouse Gas Reduction

Three Groups of Benefits



By Sector

Ву Туре

2007
2.7 million tons
13.4 tons per person
2050 GOAL
3.0 tons per person

2007 Greenhouse Gas Emissions

2,730,000 metric tons / 6,020,000,000 lbs CO₂e





- Buildings 72% of our energy use
- LEED Incentive Gold
- LEED does not ensure energy efficiency in buildings
- More importantly it does not measure actual energy use
- In order to reduce energy use and be more competitive more is needed



Crystal City Plan

- Integrated Energy Master Plan
- Focus on District Energy with a District Energy Company
- Combined heating and cooling systems
- District Energy Ready Buildings



- Reduction from 13.4 tons/person to 3.1 tons/per person
- Absorb continued growth with a 50% reduction in energy usage





Regionalism

- Arlington is located in the core of a rapidly growing Washington region (over 5 million residents, 3 million jobs and 1,200 sq. miles of urbanized area)
- Both where it fits within the region and how it contributes to it is important





2 million more people by 2050



WARNING

\2



Regional Planning



Regional Activity Centers

- At its core is a focus on how the region can continue to grow
- But in a way that can be efficiently served by transit
- Centers can be served at several levels
 - Between by rail, rapid bus, street cars etc.
 - Within by walking, bus and more local serving and thus more flexible options
 - From outside by bus



Regional Activity Centers

- Linking back to the Arlington Story
- Activity centers can be viewed as the station areas
- Efficiently and effectively served
- Surround by preserved areas of single family, lower density commercial and open space



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