

# **East Arapaho/Collins Redevelopment Study**

City Council Presentation | February 4, 2013

# Arapaho/Collins Presentation Outline

- Comprehensive Plan
- Study area boundaries
- Existing conditions
- Flex space
- Purpose
- Consultant team
- Study approach and schedule
- Discussion

### Arapaho/Collins

### **Comprehensive Plan**

- West Spring Valley (complete)
- Old Town/Main Street (underway)
- Central (underway)

- East Arapaho/Collins (underway)
- West Arapaho
- Coit



Reflect the challenges of a first-tier suburb aging development and infrastructure; underperforming properties; evolving demographics

Reinvestment,
redevelopment
encouraged after
further, detailed study
to determine
redevelopment
potential

### Arapaho/Collins

### Study Area Boundaries - Comprehensive Plan

West: Greenville Avenue (generally)

North: Collins Boulevard

East: Plano Road

South: Apollo Road

699 acres

299 parcels



# Arapaho/Collins Purpose of the Study

- Develop a strategy for addressing the underperforming flex space in the study area
- Use the resources of
  - City
  - Richardson Economic Development Partnership
  - Consultants





- Stakeholders
  - Key Informants
    - Property owners
    - Real estate brokers
    - Business owners/representatives
    - Chamber
    - UTD
    - DART
  - Community

# Arapaho/Collins Flex Space

### Definition:

- Flexible/versatile in design to allow for a variety of office, research and development, quasi-retail sales, industrial processing, high tech (or combinations) in a single space
- Building characteristics :
  - One or two story height
  - Some percentage of space (usually at least half) designed for office layout
  - Ceiling heights of up to 16 feet (to allow for racking of inventory; ceilings can be dropped for office users)
  - Overhead door delivery options (grade level, dock high)



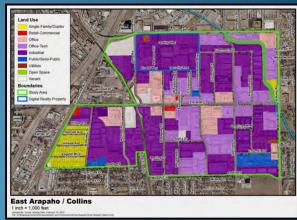


#### Arapaho/Collins

### Study Area Boundaries - Comprehensive Plan

- 86% zoned Industrial
- 75% used for industrial, office tech; 10% used for office





- 81% of improvements built 1970-1989
- No construction 2000-2009
- Since 2010, new construction/uses include data centers, call centers



# Arapaho/Collins Study Approach

- Baseline Market Analysis
  - Confirm study area boundaries
  - Obtain input and local market insight from key informants
  - Provide a preliminary assessment of land use, traffic/ transportation and infrastructure
  - Identify sites susceptible to change
  - Identify the market potential and opportunities/constraints of the study area



# Arapaho/Collins Tentative Schedule

Task	Approximate Schedule
✓ Inventory existing conditions	February-March 2012
✓ Select and hire consultant	July-August 2012
✓ Key informant interviews	September-October 2012
✓ Evaluate baseline market data	November-December 2012
<ul> <li>Present baseline market report</li> </ul>	January-February 2013
<ul> <li>Create reinvestment/ redevelopment strategy and implementation plan</li> </ul>	2013
<ul> <li>Begin implementation</li> </ul>	2013





## **East Arapaho/Collins Redevelopment Study**

### **Our Team**

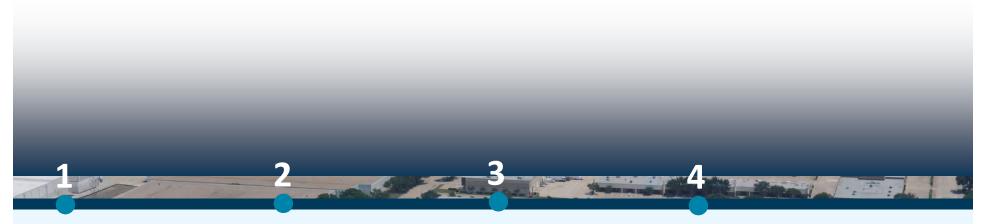


- Steve Friedman, AICP, CRE, President- Project Director
- Ranadip Bose, AICP, Senior Project Manager- Project Manager
- Fran Lefor, Associate Project Manager- Market Analysis

### HOR

- Doug Bisson, AICP, Vice President- Urban Designer and Planner
- Troy Henningson, Land Planner
- Jordan Everhart, Community and Transportation Planner

### **Project Outline**



# **Existing Conditions**

- Connectivity, Infrastructure and Building Characteristics
- Challenges to Marketability

#### Market Potential

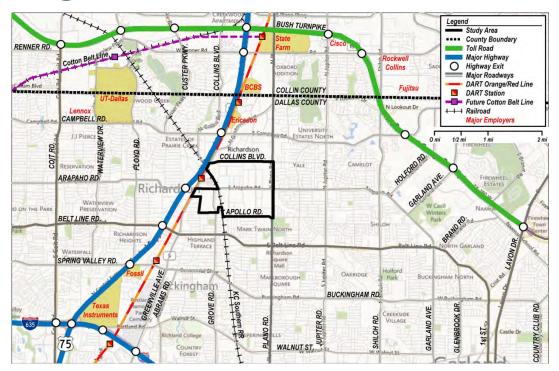
- Supply Analysis
  Modern Flex
  Value Office
  Class A Office
  Data Centers
- Demand Analysis Modern Flex Value Office

Preliminary Economics of Redevelopment

Redevelopment Assets, Challenges and Potential Strategies



### **Regional Context and Connectivity**



- Good Regional Transportation
   Connections
- Near UTD and Major Employers
- Strong Transportation
   Network
  - Public Transit Rail and Buses
  - Arterial Streets
  - Generally Pedestrian Friendly



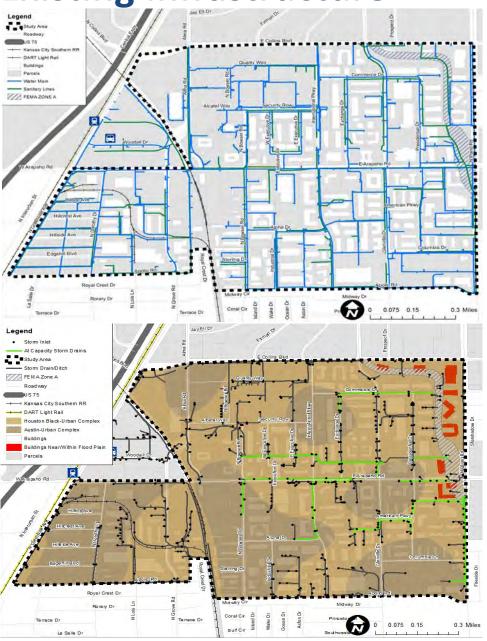




Public Transit Roadway

**Pedestrian & Bicycle** 

**Existing Infrastructure** 



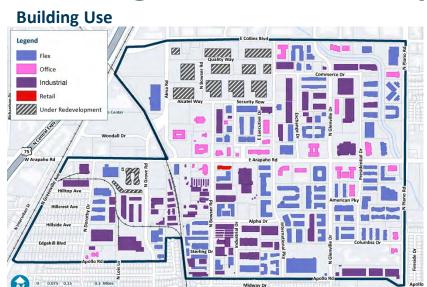
#### **Water and Wastewater**

- Meets capacity
- Large new buildings may require installation of booster pumps to meet water pressure demands

#### **Stormwater and Environmental**

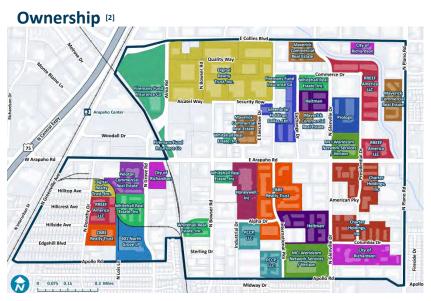
- Some stormwater lines at capacity
- No known hazardous waste spills or contamination
- Soil bearing capacities adequate

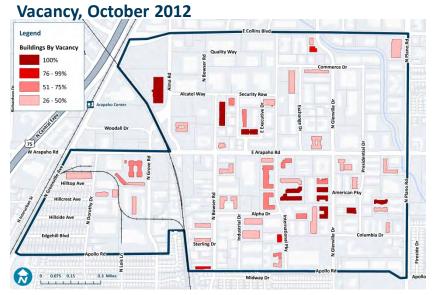
## **Building Use, Ownership, Vacancy**



Product	Rentable SF	Vacant SF (3Q 2012)	Vacancy Rate
Flex	3,870,300	932,400	24%
Industrial	2,703,200	398,100	15%
Office	1,207,700	297,600	25%
All Product [1]	7,781,300	1,628,100	21%

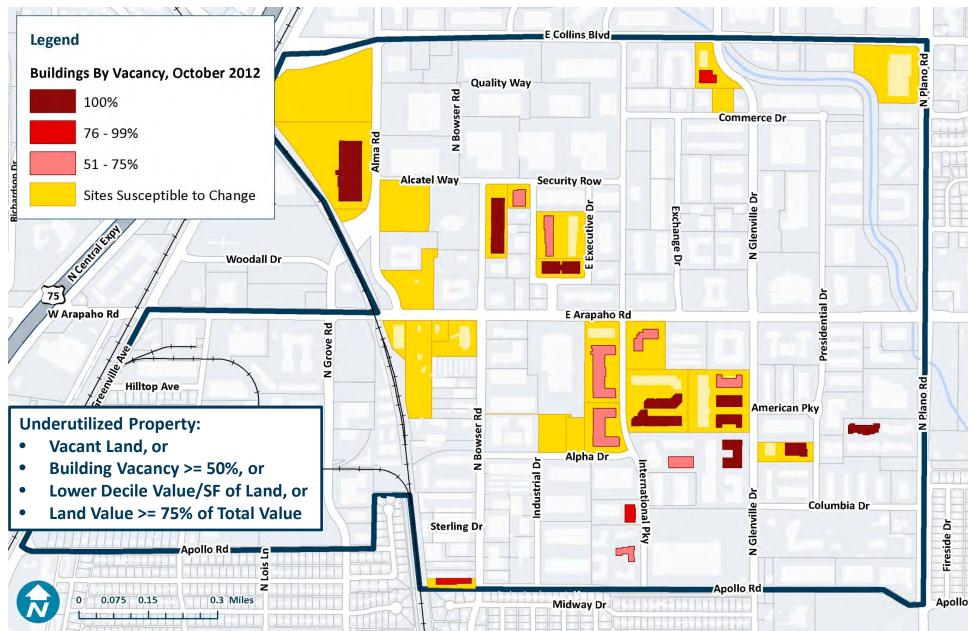
FLEX: Versatile space. May be used for office, R&D, quasi-retail sales, light manufacturing. CoStar flex definition: > 50% of spaced used for office.





[1] Excluding Digital Realty data centers. [2] Displaying only owners with 10 or more acres of property in Study Area. Owners identified through CoStar and Appraisal District data and refined through broker interviews. Source: CoStar, Richardson Chamber of Commerce, Appraisal District, broker interviews, SB Friedman.

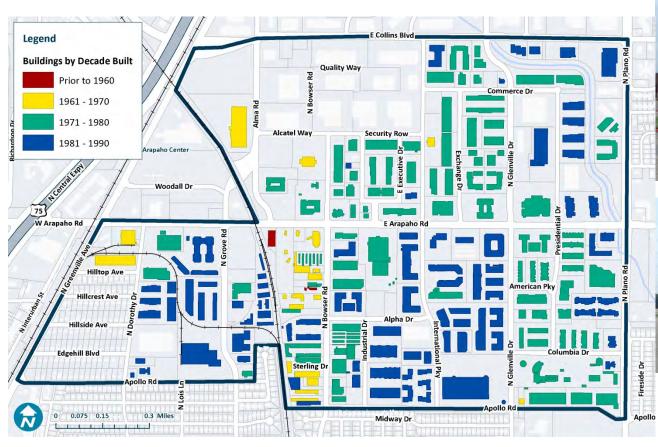
## **Sites Susceptible to Change**





### **Perception of Obsolescence**

- Many buildings appear dated and obsolete
- Over 50% built before 1980
- Median flex building is 32 years old

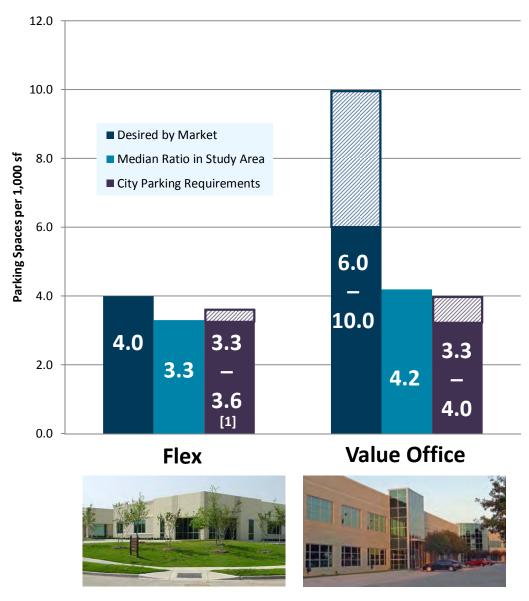








### **Low Parking Ratios**



City Parking Requirements
Minimum Number of Spaces per 1,000 sf by Use

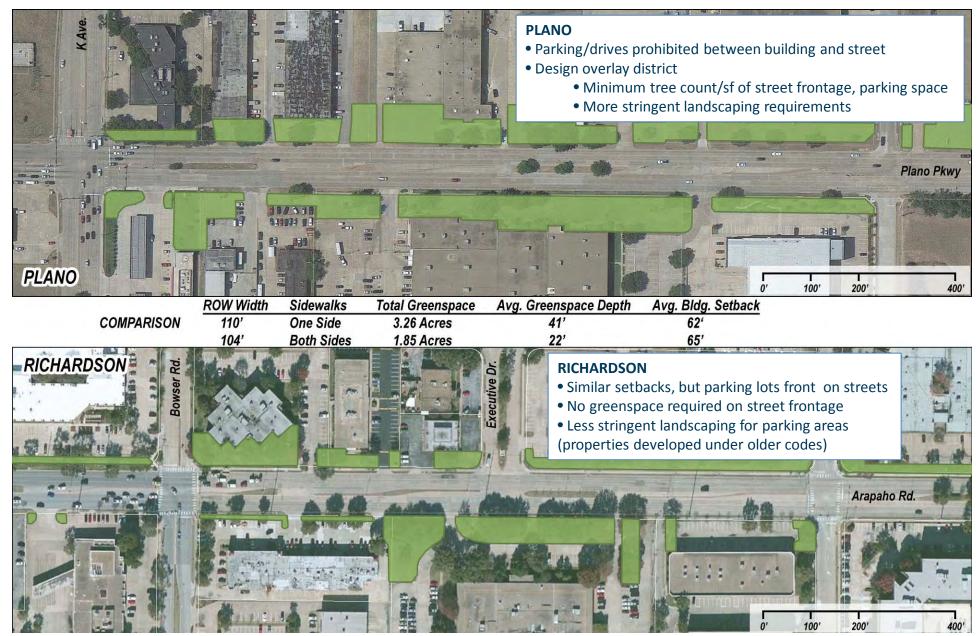
Assembly / Manufacturing / Research Lab	2.5
Showroom / Warehouse	1.0
Office (75,000+ sf)	3.3
Office (Below 75,000 sf)	4.0

Greater than 70% of space in the Study Area *does not meet* parking ratio desired by tenants

- 72% of flex space
- 78% of value office

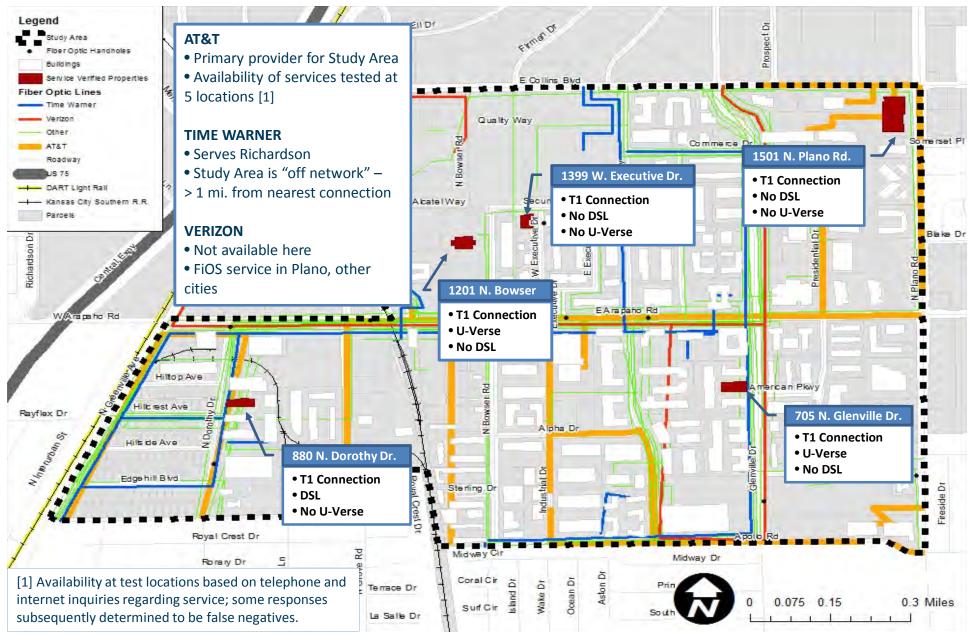
[1] Flex space is estimated to be 50-75% office with assembly, manufacturing, and research labs occupying the remaining space

## **Greenspace Comparison**



#### 22

## **Availability of Lower-Cost, High-Speed Internet**



### **Existing Conditions Conclusions**

- Good connectivity and access via highways and public transit
- Existing infrastructure generally sufficient
- Perception of obsolescence due to older building stock
- Lower parking ratios and greenspace than competitive parks
- Lower-cost internet availability problematic for smaller users
- Clustered vacancy and institutional ownership present redevelopment opportunities and challenges



### **Real Estate Products Tested**

#### **Modern Flex**



**Value Office** 



**Class A Office** 



**Data Centers** 

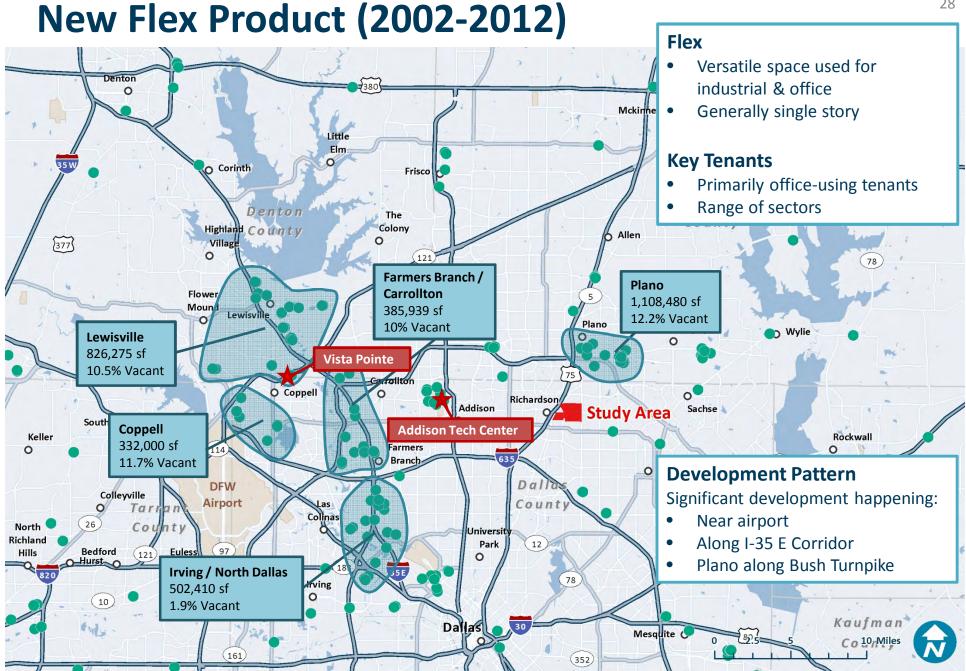




# **Comparative Analysis of Flex Submarkets**

	Study Area <sup>[1]</sup>	Rest of Richardson	Plano	Carrollton / Addison
Total Rentable Building Area (RBA)	3,870,331	5,367,376	5,111,511	10,787,937
Vacancy (Q3 2012)	24%	19%	16%	15%
Average Annual Absorption (square feet - sf) 10 Years	(55,829)	53,225	54,418	42,947
New Construction (sf) 10 Years	0	226,160	357,717	326,786
Capture of New Flex Development in Metroplex 10 Years	0.0%	3.5%	5.5%	5.0%





Vista Pointe

# **Comparative Analysis of Flex**

	Study Area Flex	Vista Pointe	Addison Tech Center
Year Built	n/a	2000-2007	2001
Total RBA	n/a	288,200	228,400
Vacancy (3Q 2012)	24%	10%	5.2%
Median Floorplate (sf)	26,100	30,200	45,600
Median Parking Ratio	3.3	4.0	4.5
Avg. Weighted Rent	\$8.42	\$11.00	\$9.75



- Parking ratios of 4+/1000 sf
- Larger floorplates
- Higher ceilings
- Modern facilities

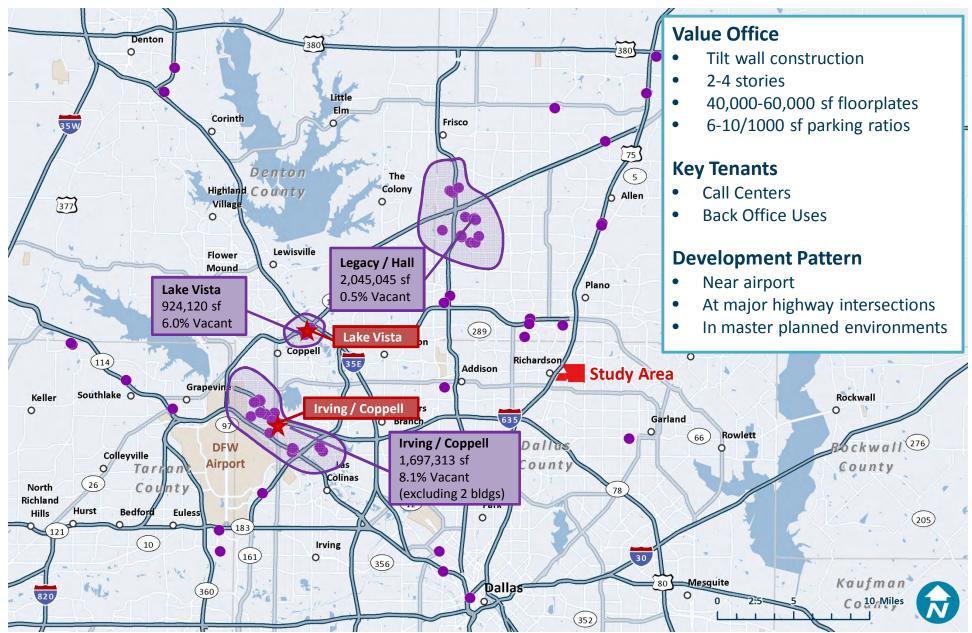






2. Market Potential Supply Analysis: Value Office

## New Value Office (2002-2012)



### **Comparative Analysis of Value Office**

	Study Area Office [1]	Lake Vista	Irving / Coppell
Year Built	n/a	2001-2008	2003-2009
Total RBA	742,136	924,120	1,697,303
Vacancy (3Q 2012)	29% [2]	6.0%	8.1%[3]
Median RBA (sf)	57,200	122,000	112,250
Median Floorplate (sf)	23,600	61,000	38,400
Median Floor Area Ratio (FAR)	0.34	0.28	0.27
Median Parking Ratio	4.2	6.0	6.0
Avg. Wtd. Rent	\$12.61	\$20.00	\$18.95

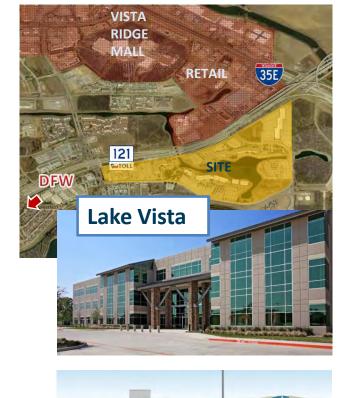


- Parking ratios of 6+/1000 sf
- Larger floorplates
- Adjacent to retail and restaurants
- Often in master planned developments



Source: CoStar, Richardson [1] 2-4 stories Chamber of Commerce, InfoUSA, Holt Lunsford building; 45% Commercial, SB Friedman [3] Excludes to

[1] 2-4 stories[2] Without Pelotonbuilding; 45% with Peloton[3] Excludes two 100%vacant buildings



**Irving/Coppell** 

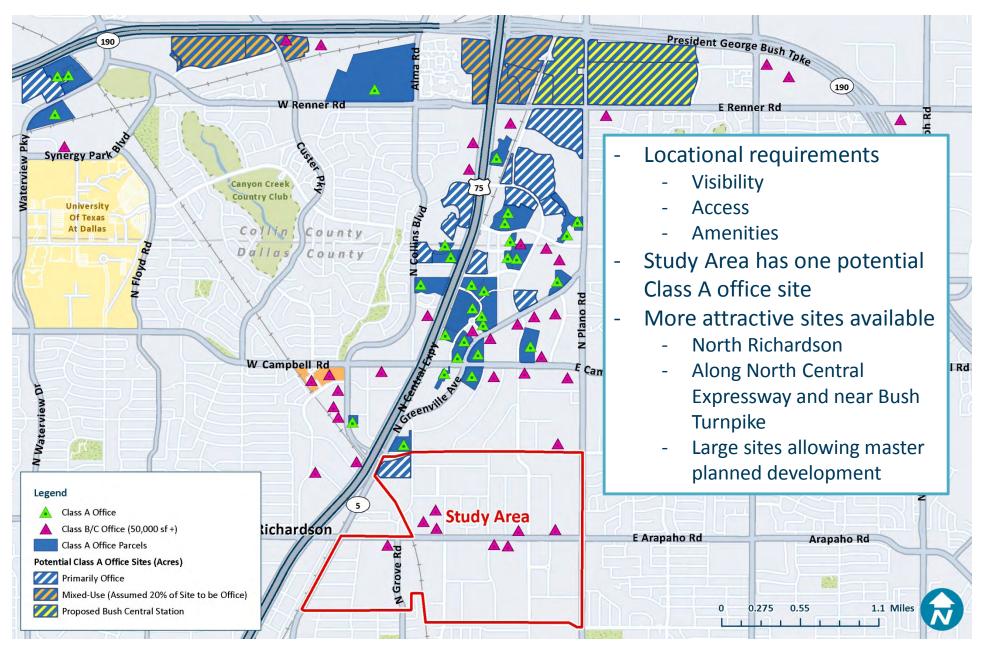
Development





2. Market Potential Supply Analysis: Class A Office

### **Potential Class A Office Sites**



# **Class A Office Alternative Sites Analysis**

Richardson Alternative Sites Analysis	
Median FAR of Existing Class A Office	0.59
Potential Class A Office Development [1]	
Primarily Office Sites	214 acres
Mixed-Use Sites (assumed 20% office)	155 acres
Total Potential Class A Office sf [2]	7,187,000
Avg. Annual Square Footage Delivered (last 20 years)	341,000
Years of Class A Development Capacity at Available Richardson Sites	21
[1] Based on current zoning and assuming 20% Class A office for mixed-use developments. [2] Based on proposed 1.5 million sf at Bush Central Station and Median FAR for remaining parcels.	

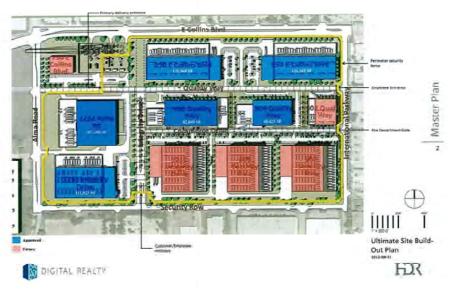




2. Market Potential Supply Analysis: Data Centers

## **Data Centers – Location Dynamics**

- Location Requirements
  - Reliable, adequate and relatively inexpensive electricity
  - High fiber density with access to multiple carriers
  - Urban location/proximity to large metro areas
  - Low probability for natural disaster



- Richardson Appears to Meet All Location Requirements, but so do Other Locations in Metroplex
  - Power access and capacity is critical – dedicated substations preferred
  - Buildings must be able to withstand high wind speeds, so not all buildings can be retrofitted
  - Few developers want to assemble multiple parcels or do one-off buildings, so assembled sites are attractive (e.g., Digital Realty Trust purchased former Alcatel site)





# 2. Market Potential Demand Analysis

## **Tenant and Sector Analysis**

#### **Modern Flex**



#### **Value Office**



40

- Highly concentrated in region
- Outperforming national economy
- High employment growth
- Likely to be located in flex and value office space



Sectors with greatest share of flex and value office transactions in last 5 years

FLEX	VALUE OFFICE
High Tech Manufacturing	Finance and Insurance
IT – Computer Systems Design	Professional Services
Merchant Wholesalers	Administrative and Support

#### **Tenant Profiles**

#### **Modern Flex**

- Smaller tenants
  - 75 percent lease less than13,250 sf

#### **Value Office**

- Larger tenants
  - More employees
  - Lease entire buildings or larger spaces
- Headquarter firms tend to prefer:
  - DFW airport proximity
  - Concentrated retail and restaurant amenities
  - Campus-like environments

## **Market Analysis Conclusions for Study Area**

#### **Modern Flex**

- More office-like tenants
- High-tech with light manufacturing/distribution
- Smaller multi-tenant spaces
- Parking ratios of 4+/1000 sf

#### **Data Centers**

- Meet basic location criteria
- Power access and capacity is critical
- "Wild Card" use

#### **Value Office**

- Back office, call centers in high-growth sectors
- Need retail amenities and business support services
- Parking ratios of 6+/1000 sf

#### **Class A Office**

 Other better Richardson sites can absorb demand for many years



## Redevelopment/Rehabilitation



#### **Existing Layout**

Building Area Acquired (sf): 126,645 Building Area Available (sf): 92,816

**Layout After One Building Demolished** 

to Provide Additional Parking

Purchase Price/sf Building: \$25 Purchase Price/Remaining sf Building: \$34

Asking Study Area Rents: up to \$9.50/sf Required Rents to Cover Costs of Rehabilitation: \$9 - 10.50/sf

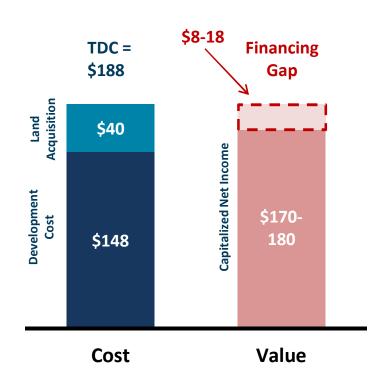
Rehab may be Economically Feasible, Depending on Extent of Required Tenant Improvements

#### **New Construction**

#### **Modern Flex**

#### **Total Development Financing** Cost = Gap \$152 Acquisition \$42 \$39-45 Capitalized Net \$107-Development Income \$110 113 Cost **Value** Cost

#### **Value Office**



- High Acquisition Costs Drive Financing Gap for New Construction
- Modern Flex Likely to be Difficult Economically
- Value Office Appears to Have Greater Feasibility

## **Preliminary Conclusions**

- High Acquisition Cost Results in Financing Gap
- Within Striking Distance of Feasibility
  - Rehabilitation: Garden office, flex, value office buildings
  - New construction: Value office buildings



### **Redevelopment Assets**

- Access to regional labor force via mass transit and regional roadways
- Proximity to UTD and major employers
- Existing high-tech manufacturing and IT economic base
- Relatively lower-cost space available
- Basic infrastructure in place
- City of Richardson and Chamber business-friendly attitudes

## **Redevelopment Challenges**

- Attractiveness to Potential Tenants
  - More smaller tenants in need of multitenant space and low-cost, highspeed internet
  - More office users with higher parking needs
  - Lack of curb appeal compared to alternatives
- Redevelopment Challenges
  - Airport and master planned developments have greater market appeal
  - Economics challenging compared to greenfield development
- Ownership Expectations
  - Effective current value of buildings lower than owner expectations,
     limiting potential for transfers of property
  - Institutional owners appear reluctant to:
    - Write down value of investment properties
    - Respond to small tenant market



### Maintain and Strengthen Linkage to UTD

- Maintain Dialogue with UTD
- Explore Opportunities to Attract UTD Incubator "Graduates" to Study Area

## University of Iowa Research Park Coralville, Iowa

- Technology Innovation Center (collaborative space for tech ventures)
- BioVentures Center (wet lab, R&D incubator)
- Research Park supported with TIF, direct business assistance from City



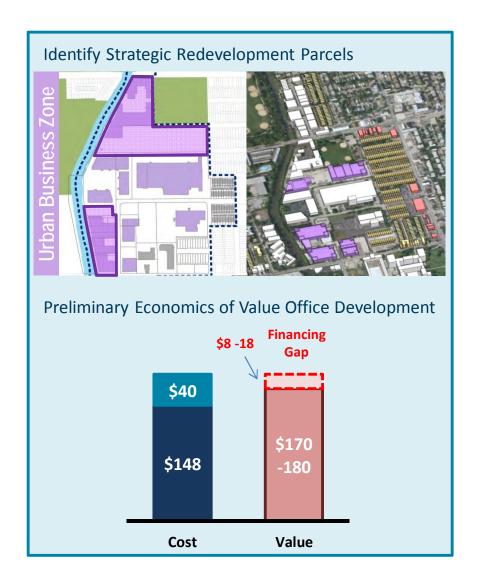
## **Improve Internet Service**

- Ensure Basic Lower-Cost
   Internet Service is Available
   for Small Users
- Explore Opportunities to Enhance Internet Network



## **Targeted Redevelopment of Opportunity Sites**

- Identify Potential Rehab/Redevelopment Projects
- Create and Test Development Concepts
- Conduct More Detailed Analysis on Financial Gap Associated with Rehab/Redevelopment



# Consider Establishing City Financial Assistance Program for Building Rehab and New Development

- Explore Available Tools for Financial Gap Assistance
- Define Program and Criteria for Use of Incentives in Study Area



- TIF; Second Mortgage Program;
   Façade Grants; Milwaukee Energy
   Efficiency (ME<sup>2</sup>) Program; Retail
   Investment Fund
- TIF Performance Criteria:
  - Underwriting based on demonstrated financing gap
  - Job creation/retention
  - Disadvantaged contractor participation
  - Design review
  - Sustainability



Source: CoStar

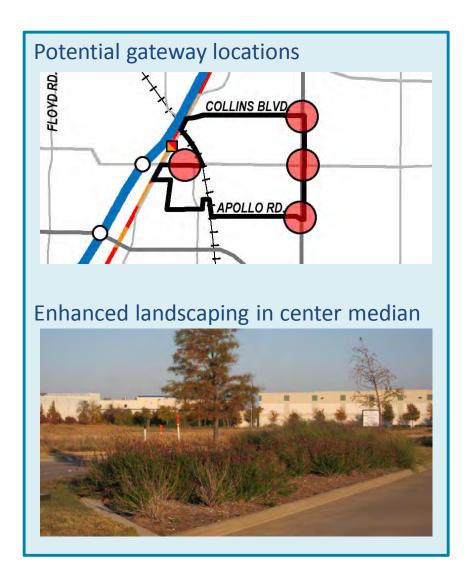
## **Attract Support Services and Amenities**

- Identify Appropriate Sites
  - High traffic volume
  - Accessible and visible
- Estimate Latent Demand
   Potential for Businesses and
   Employees in Study Area
- Work with Property Owners and Brokers to Develop Marketing Materials to Attract:
  - Restaurants
  - In-line retail
  - Business support services



# Enhance Curb Appeal – Public Improvement Program

- Identify and Design Gateway
   Opportunities, Landscaping,
   Streetscaping Amenities
- Identify Public Financing Sources for Streetscape Enhancements
- Enhance Arapaho Road
   Streetscape



# **Enhance Curb Appeal – Design Guidelines for Private Improvements**

- Create Design Guidelines or an Overlay District
- Apply New Regulations to Building Rehabilitations, Redevelopment and New Development

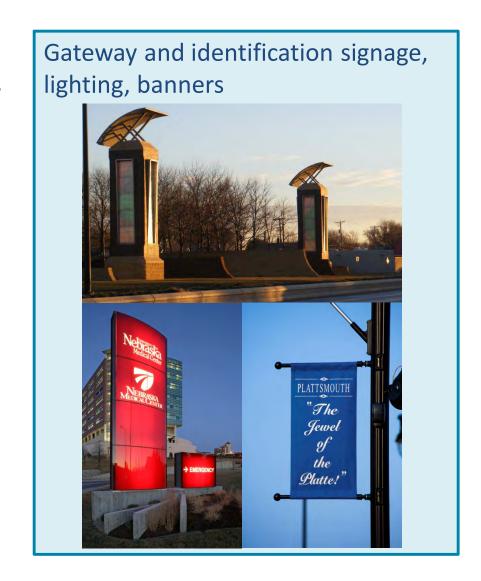
Buildings addressing the street, parking behind, pedestrian enhancements, etc.



Long term strategy to improve functionality and enhance curb appeal

## **Consider Re-Branding Study Area**

- Explore New Branding
   Opportunities as Other Strategies
   are Implemented
- Create an Identity for the District
- Implement a Branding and Marketing Campaign through the City, Chamber, Brokerage Community, etc.



## Arapaho/Collins Consultant Recommendations

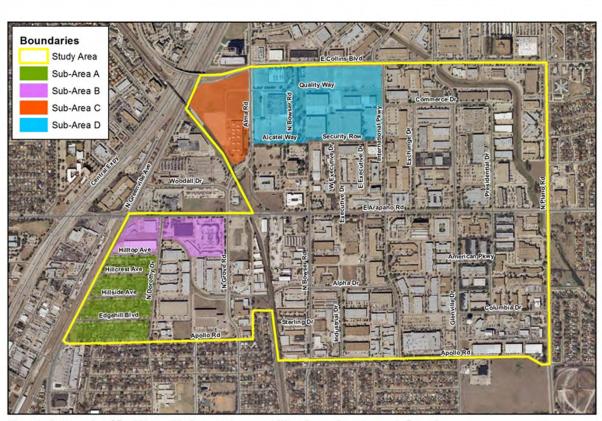
- Maintain and strengthen linkage to UTD
- Improve internet service
- Further analyze opportunity sites
- Consider establishing a financial assistance program for rehab/new development
- Attract support services/amenities
- Enhance curb appeal
  - Public improvements
  - Guidelines and standards for private improvements
- Re-brand/(Brand) the Study Area

#### Staff Recommendation (consultants agree)

Revise Study Area boundaries

## Arapaho/Collins Revised Study Area Boundaries

- Delete Sub-Areas A, B, C, D
- A Unlike the remainder of the Study Area
- B and C Study in the context of TOD
- D Already under redevelopment



East Arapaho/Collins Enhancement/Redevelopment Study

1 inch = 1,000 feet

Updated By: krumk, Update Date: January 30, 2013

#### Arapaho/Collins

#### Possible Future Study/Work Elements

- Establish a means/vehicle for working with UTD on issues of mutual interest regarding this project
- Determine what actions, if any, the City can take to address the internet issue
- Select and refine preferred plans and catalyst site concepts, including a financial analysis
- Review codes and ordinances and make recommendations (revising regulations will be a separate step)
- Create a plan for improving the identity of the Study Area

#### **Arapaho/Collins**

#### **Potential Implementation Actions**

- Amend zoning requirements and other standards to support reinvestment/redevelopment
- Plan, fund and construct necessary infrastructure improvements
- Meet with UTD on a regular or as-needed basis to discuss issues of mutual interest
- Develop a marketing and recruitment plan
- Investigate public/private partnership opportunities

## Arapaho/Collins Tentative Schedule

Task	Approximate Schedule
✓ Inventory existing conditions	February-March 2012
✓ Select and hire consultant	July-August 2012
✓ Key informant interviews	September-October 2012
✓ Evaluate baseline market data	November-December 2012
✓ Present baseline market report	January-February 2013
<ul> <li>Contract to continue the study and undertake future study elements</li> </ul>	2013
<ul> <li>Refine and prioritize implementation strategies</li> </ul>	2013
<ul> <li>Begin implementing high priority strategies</li> </ul>	2014



## **Industrial Zoning Code Comparison**

#### **Richardson**

- Building Setbacks: 40'
- Parking Ratios:
  - Assembly, manufacturing,research = 1/400 sf
  - Showroom/warehouse= 1/1000 sf
- Landscaping:
  - Bldg > 75,000 sf = 7% of lot
  - Bldg < or = 75,000 sf = 10% of lot
  - Min 20% of required green space must be within parking lots

#### **Plano**

- Building Setbacks: 50', parking/drives prohibited between building and street
- Parking Ratios:
  - Warehouse 1/1000 sf + 1/300 sf for office space (when mixed)
  - General Industrial 1/1000 sf
- Landscaping (plus overlay district):
  - 30' wide landscape edge along roadways, min one 3" cal tree and one ornamental per 50' of frontage
  - 8 sf of landscaping per pkg space
  - 1-2 trees per every 15 pkg spaces
  - 18"-40" high landscaped screen
  - Up to 50% of interior landscaping can be outside of parking areas

## Fiber/Telecom Cost Comparison

	AT&T	TIME WARNER CABLE	VERIZON
Availability in Study Area	DSL: Partial Coverage U-Verse: Partial Coverage T1: Full Coverage	Available, but entire Study Area "Off Network"	Not Available in Study Area
Maximum Speed	DSL: 6Mb/s (down) Up to 768 kb (up) U-Verse: 24 Mb/s (down) Up to 3 Mb/s (up) T1: 1.5 Mb/s (up & down) Ethernet: 10-50+ Mb/s (up & down)	10 -50 Mb/s (down) 768 kb – 2 Mb/s (up)	DSL: 7 -15Mb/s (down),
SUBSCRIBER COSTS			
Connection Fee	None – AT&T will cover cost of DSL or T1 connection to building	Significant – All properties > 1mi. from connection point	n/a
Monthly Fee [1]			(Plano)
Ethernet	\$1,000 - \$1,400+	n/a	[2]
T1	\$400	n/a	\$400
DSL	\$40 - \$100	n/a	\$89
Cable/U-Verse/FiOS	\$40 - \$95	10 Mb: \$150 \$115 - 35 Mb: \$320 50 Mb: \$385	

Source: Verizon, AT&T, Time Warner, HDR, SB Friedman.

<sup>[1]</sup> Some monthly fees dependent on speed and duration of contract. [2] Verizon was not asked about their Ethernet connection.

## **Regionally Competitive Sectors**

NAICS [1]	NAICS Description	Ranking	2005 Emp. [2]	2009 Emp.	Annual Growth	Does the Study Area Compete?
High To	ech Manufacturing					
3364	Aerospace Product & Parts	Superstar	8,601	9,871	4%	
3344	Semiconductor & Other Electronic Components	Cash Cow	17,429	9,318	-14%	
3323	Architectural & Structural Metals	Cash Cow	7,694	6,464	-4%	
3342	Communications Equipment	Superstar	1,759	4,817	29%	
Financ	e & Insurance					
5222	Non Depository Credit Intermediation	Superstar	31,924	31,570	0%	
5241	Insurance Carriers	Superstar	27,218	29,086	2%	
5412	Accounting, Tax Prep, Bookkeeping, & Payroll Services	Superstar	16,719	18,758	3%	
5242	Agencies, Brokerages, & Other Insurance Related Activities	Superstar	15,107	18,528	5%	
5223	Activities related to Credit Intermediation	Superstar	12,781	9,725	-7%	
Inform	ation Technology					
5415	Computer Systems Design & Related Services	Cash Cow	35,283	38,138	2%	
5171	Wired Telecommunication Carriers	Cash Cow	25,852	18,202	-8%	
5112	Software Publishers	Superstar	8,119	11,316	9%	
5182	Data Processing, Hosting, & Related Services	Cash Cow	9,376	8,143	-3%	
<b>Profess</b>	sional Services					
5511	Management of Companies & Enterprises	Superstar	64,889	72,471	3%	
5416	Management, Scientific, & Technical Consulting Services	Cash Cow	24,843	21,027	-4%	
5413	Architectural, Engineering, & Related Services	Superstar	16,029	18,412	4%	
5418	Advertising, Public Relations, & Related Services	Superstar	7,560	8,745	4%	
Merch	ant Wholesalers					
4236	Electrical & Electronic Goods	Superstar	13,113	17,667	8%	
4234	Professional & Commercial Equip & Supplies	Cash Cow	13,252	10,814	-5%	

Source: Target Industry Analysis from Richardson Chamber of Commerce

[1] Sectors shown are only those that are likely to occupy flex or value office space. [2] Analysis conducted for Dallas and Collins Counties

Superstar: Growth and relative employment higher than national average

Cash Cow: Relative employment higher and growth lower than national average

## Flex: Most Commonly Represented Sectors 13

#### **Study Area Tenants and NE Dallas Transactions**

Top Tier

Middle Tier

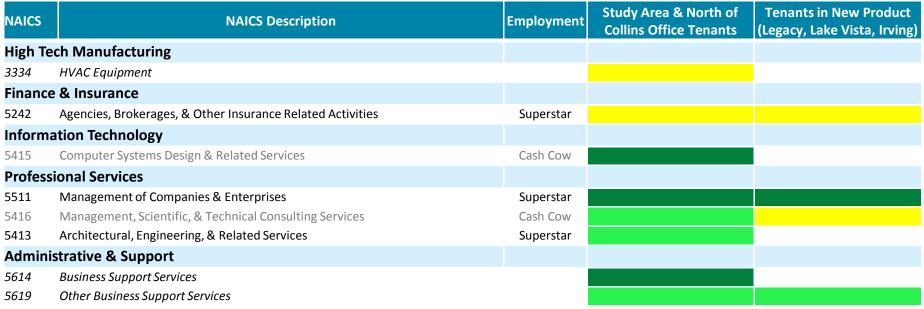
NAICS	NAICS Description	Employment	Study Area & North of Collins Flex Tenants	Recent Moves & Transactions in NE Dallas
High Te	ech Manufacturing			
3364	Aerospace Product & Parts	Superstar		
3344	Semiconductor & Other Electronic Components	Cash Cow		
3342	Communications Equipment	Superstar		
3391	Medical Equipment & Supplies			
3345	Measuring & Control Instruments			
Finance	e & Insurance			
5222	Non Depository Credit Intermediation	Superstar		
5242	Agencies, Brokerages, & Other Insurance Related Activities	Superstar		
Inform	ation Technology			
5415	Computer Systems Design & Related Services	Cash Cow		
Profess	sional Services			
5511	Management of Companies & Enterprises	Superstar		
5416	Management, Scientific, & Technical Consulting Services	Cash Cow		
5413	Architectural, Engineering, & Related Services	Superstar		
Mercha	ant Wholesalers			
4236	Electrical & Electronic Goods	Superstar		
4234	Professional & Commercial Equip & Supplies	Cash Cow		
4238	Machinery, Equipment, & Supplies			
Constru	uction			
2382	Building Equipment Contractors			
2372	Land Subdivision			
		Sources: Target Industry Analysis from	n Richardson Chamber of Comme	erce, InfoUSA, CoStar, SB Friedman

[1] Greater than 60% of all employees and 50% of all businesses

Bottom Tier

## 

#### **Tenants in Study Area and New Value Office Developments**



Sources: Target Industry Analysis from Richardson Chamber of Commerce, InfoUSA, CoStar, *SB Friedman* [1] Greater than 80% of all employees



F10 Delete rows that don't have high % of emps

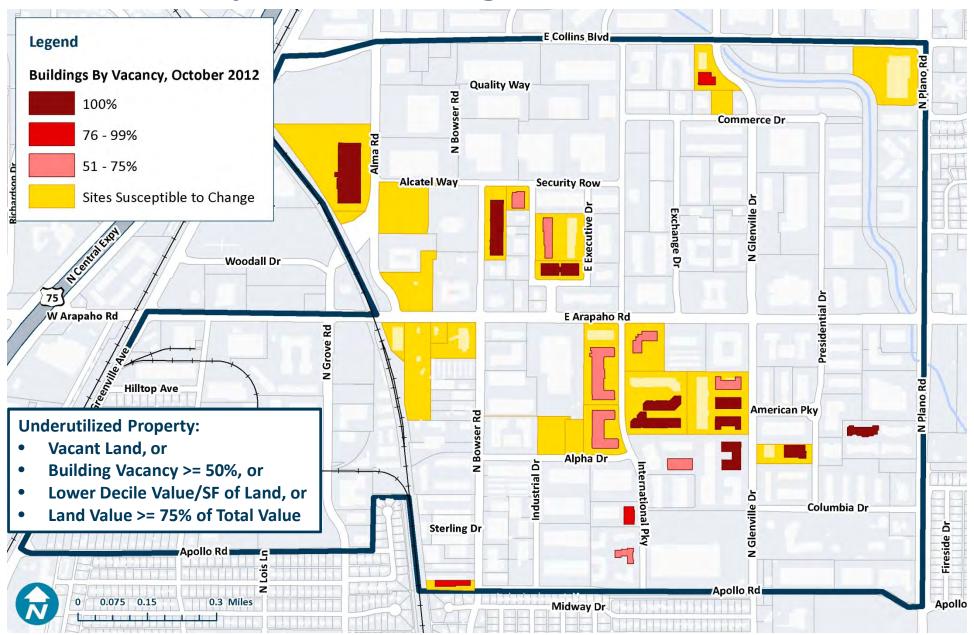
Really just transactions in 3 parks, or all new product

note that this is new product -- all in 3 parks or all new product in NE?

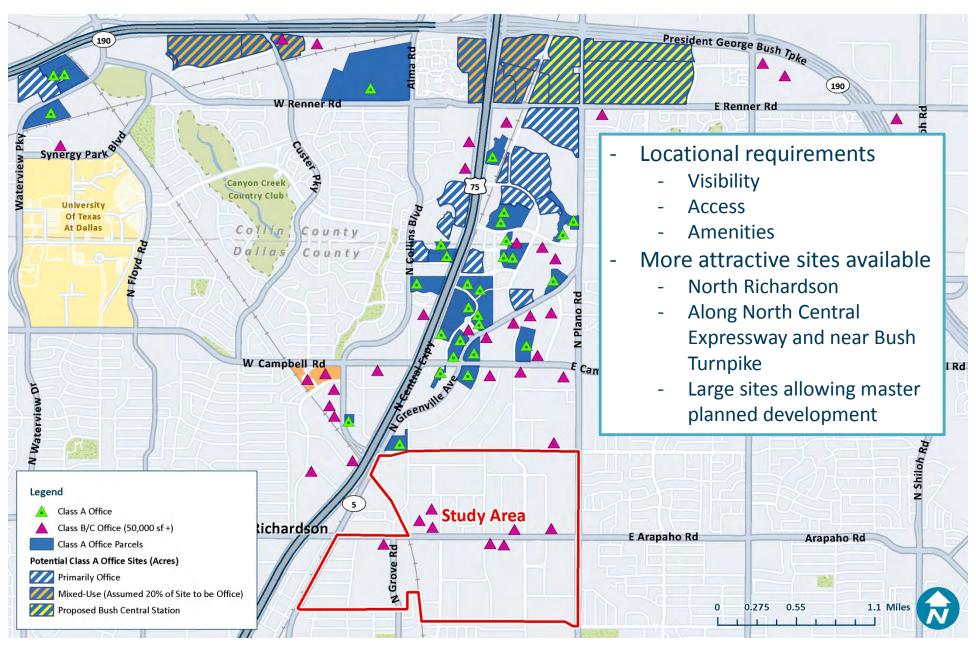
Tertile = Tier

Probably need to look at this again -- Fix the big companies that we konw are Mgmt of Companies & Enterprise. Why so many Drug & Druggists' Sundries. Floater, 1/17/2013

## **Sites Susceptible to Change**



### **Potential Class A Office Sites**



## **Class A Office Alternative Sites Analysis**

Richardson Alternative Sites Analysis	
Median FAR of Existing Class A Office	0.59
Potential Class A Office Development [1]	
Primarily Office Sites	214 acres
Mixed-Use Sites (assumed 20% office)	155 acres
Total Potential Class A Office sf [2]	6,801,000
Avg. Annual Square Footage Delivered (last 20 years)	341,000
Years of Class A Development Capacity at Available Richardson Sites	20
[1] Based on current zoning and assuming 20% Class A office for mixed-use developments. [2] Based on proposed 1.5 million sf at Bush Central Station and Median FAR for remaining parcels.	