

Center for Accelerating Innovation



MANAGING ECONOMIC SHOCKS TO VALUE CAPTURE-FUNDED PROJECTS IMPLICATIONS AND TOOLS FOR MANAGING: A PRIMER

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Presenters



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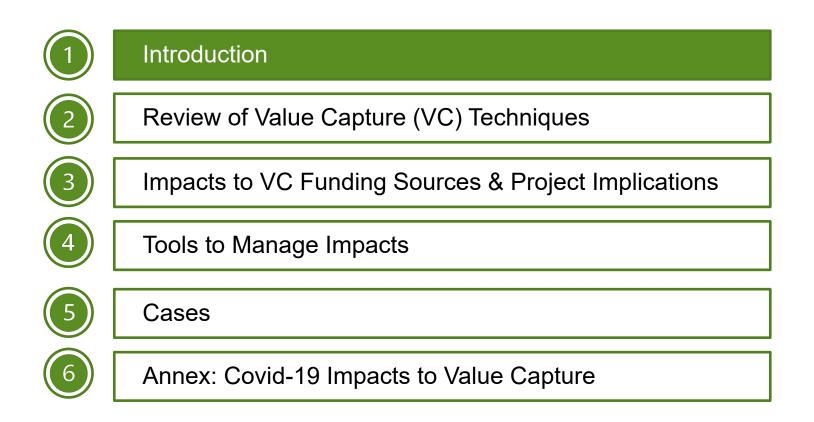


Presentation Outline

	Introduction
2	Review of Value Capture (VC) Techniques
3	Impacts to VC Funding Sources & Project Implications
4	Tools to Manage Impacts
5	Cases
6	Annex: Covid-19 Impacts to Value Capture



Presentation Outline





Introduction



Provides overview of how economic shocks (e.g., Global Financial Crisis, COVID-19) affect value capture funding sources



Goal is to help sponsors of valuecapture-funded projects understand how economic shocks can affect their projects & tools they can use to mitigate those shocks



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Review of Value Capture Techniques



WHAT IS VALUE CAPTURE?

- Set of techniques that take advantage of increased property values resulting from new or improved transportation infrastructure
- New infrastructure can increase attractiveness of certain areas, raising demand and property values; many value capture techniques seek to capture some of these property value increases



Review of Value Capture Techniques



SPECIAL ASSESSMENT DISTRICTS

TAX INCREMENT FINANCING

JOINT DEVELOPMENT

IMPACT FEES

TRANSPORTATION UTILITY FEES

NAMING RIGHTS

Value Capture Techniques Examined in the Primer



1

2

3

4

5

6

Review of Value Capture Techniques



2 3 JOINT **SPECIAL** TAX **INCREMENT DEVELOP-**ASSESSMENT IMPACT MENT DISTRICT FINANCING **FEES** Cost/revenue Charges Incremental Fee charged imposed on -sharing to property property tax developers by value partnership owners within municipalities between designated increases to help fund public entity district whose from public infrastructure and privateproperties are sector to services/infra investment primary develop structure beneficiaries are captured certain required due to fund/ of infrastructure to new infrastructure finance the development investment assets improvement

TATION UTILITY FEES Periodic fees paid by property

owner or

renter to

based on

municipality

transportation

system use

5

TRANSPOR-

Agency sells rights to name infrastructure to private company or non-profit institution

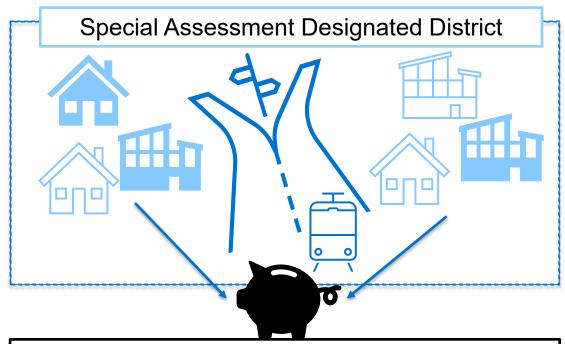
NAMING

RIGHTS





SPECIAL ASSESSMENT DISTRICTS



Property owners within district benefitting from improved infrastructure pay fee Other Names:

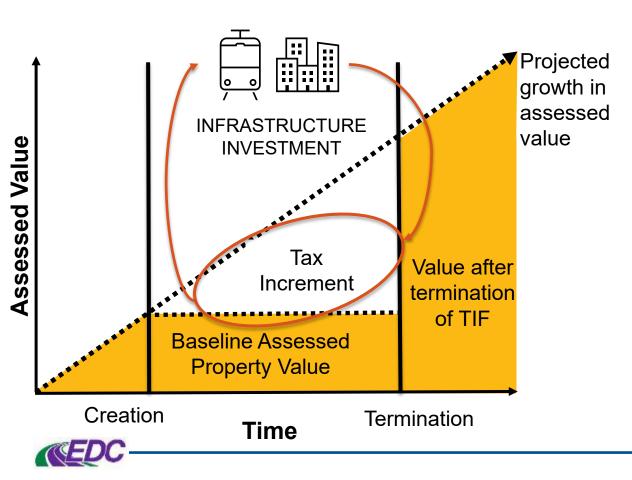
- Benefit Assessment District (CA)
- Local Improvement District (WA)
- Community Improvement District (MO)
- Downtown Improvement District, transportation improvement districts (VA, OH),
- Special Services Area (II)





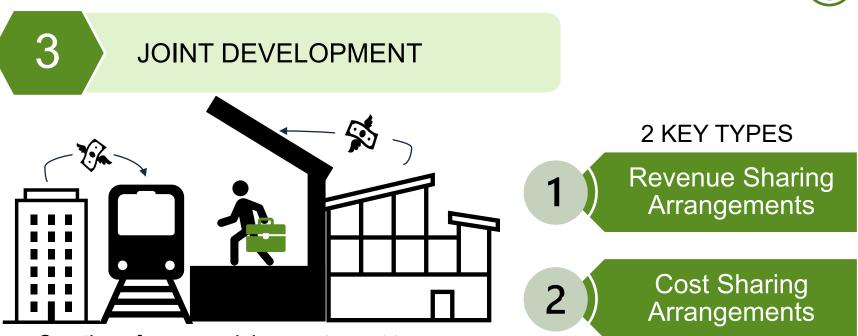
TAX INCREMENT FINANCING

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- What: Incremental property taxes captured in district to fund and finance infrastructure in that district
- Alternate Terms: Tax Allocation Districts; Transportation Reinvestment Zones
- Uses: Transit & Roads





Creation of commercial property next to transportation project, e.g., rail station, often with benefit of defraying the cost of that project



Value Capture Techniques Reviewed 4 **IMPACT FEES FEES** PAYMENT **MUNICIPAL DEVELOPERS** GOVERNMENT **FUNDING FOR INFRASTRUCTURE**/ SERVICES REQUIRED BY NEW DEVELOPMENT





TRANSPORTATION UTILITY



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...periodic fees paid by property owner/building occupant to municipality based on use of local transportation system

Building Occupants

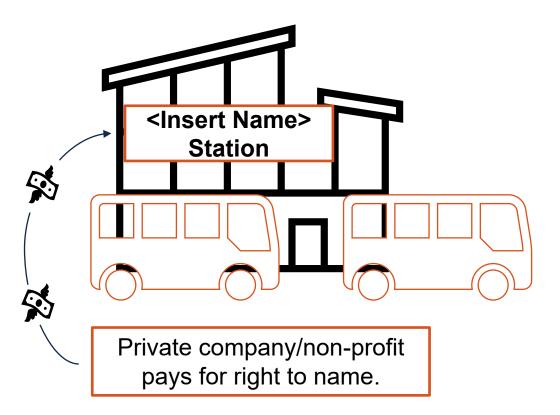
Municipal Government

TUFs are also	Transportation Maintenance Fees	Street Maintenance Fees	Road Use Fees
called:	Pavement Maintenance Utility Fees	Street Restoration & Maintenance Fees	Street Utility Fees





NAMING RIGHTS



Transit agency sells right to name infrastructure to private company/non-profit.

e.g., "Salesforce Transit Center" in San Francisco, CA, and "Atlantic Avenue Barclays Center" in Brooklyn, NY



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Impacts to VC funding sources: economic shocks can lead to reduced revenues

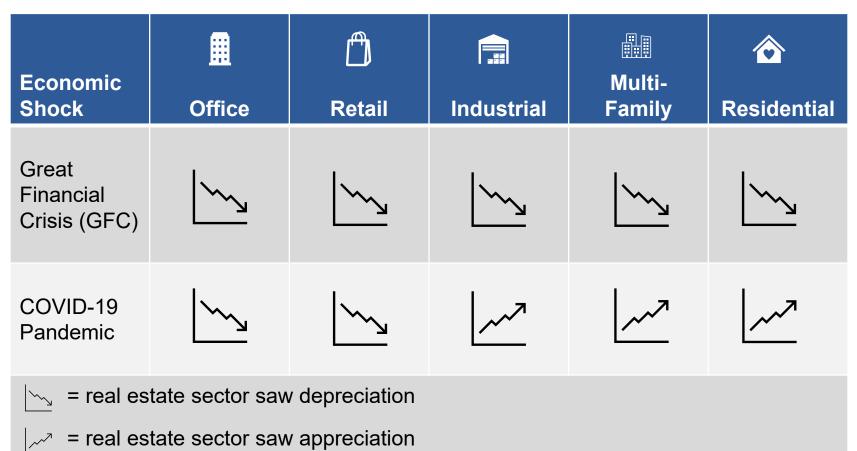


	DRIVER FOR REDUCTION IN VALUE CAPTURE REVENUE	VALUE CAPTURE TECHNIQUE IMPACTED
$\left \begin{array}{c} \\ \end{array} \right $	Lower property value appreciation	TIF, Joint Development, Special Assessments
(Lower assessments and/or difficulty levying new assessments	Special Assessments
<u>î</u>	Less new development leading to lower impact fees / reduction in fee	Impact fees
<u>~</u>	Less commerce leading to lower sales tax district fees	Special Assessment District, specifically sales tax district
Î×,	Changing naming rights demand	Naming Rights



C Lower property value appreciation – varies by shock

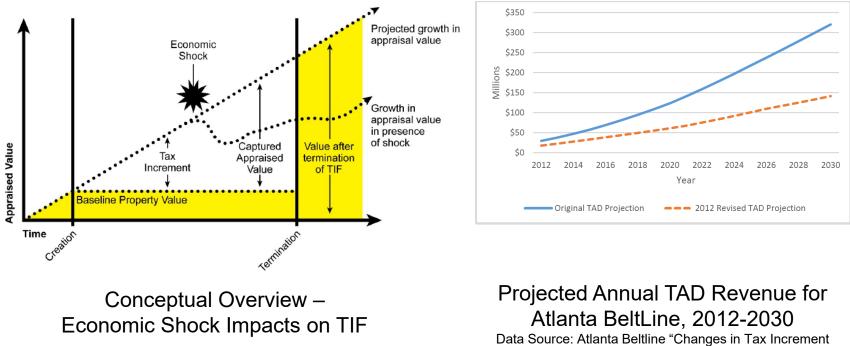
Impact to property value appreciation will vary by shock and real estate sector





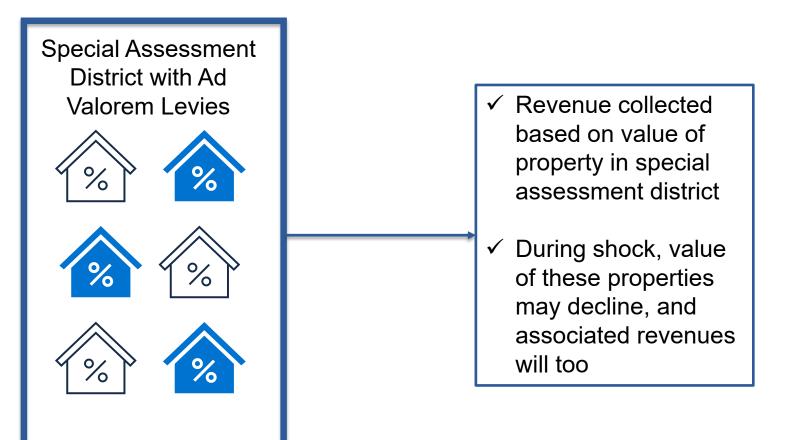
C Lower property value appreciation – negatively impacts TIF revenues

TIF relies on improved infrastructure assets leading to higher property values; but economic shocks can negatively affect growth in appraised property value





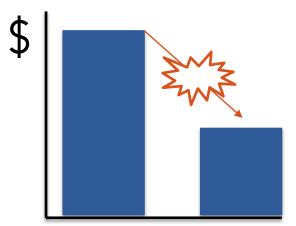
Lower property value appreciation – can lower special assessment revenues





S Lower assessments / difficulty levying new assessments

During economic shock it may be more difficult to levy new special assessments



Lower levies feasible during periods of economic shock





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Less new development leading to lower impact fees / reduction in fee



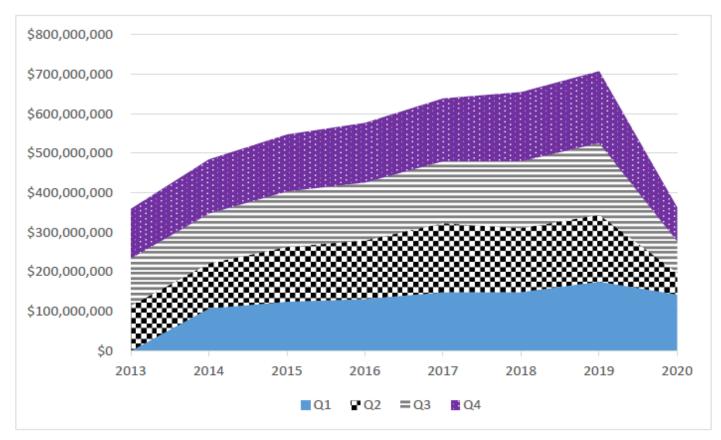
New Privately Owned Housing Units Started, 1990-2021 (shaded areas indicate economic recession)

Source: US Census Bureau and US Department of Housing and Urban Development





Less commerce leading to lower sales tax district fees



Volume of Taxable Sales in the Kansas City Streetcar's Starter Line Transportation Development District

Source: Missouri Department of Revenue, Taxation Division, Taxable Sales and Use Tax by Locality – Taxable Sales for All Districts (2013 – 2021).



Implications of reduced VC revenues on projects

	Implication	For example
Revenue	Inability to Meet Funding or Debt Service Requirements of Current Projects	 ✓ Atlanta BeltLine's less than expected TIF revenues during GFC hindered project ✓ Assessed value of NYC office buildings declined by 16.6% in 2021
\$	Reduced Ability to Secure Project Financing	 With reduced TIF revenues during GFC, Atlanta BeltLine did not have enough debt capacity to issue more bonds
NO	Reduced Public Agency Willingness to Fund Future Projects	 Projects with unidentified funding sources or with less support will fail to get off the ground during economic shocks
	Switch to Pay-As-You-Go (Paygo) Modality	 ✓ May lead to project phasing as in Atlanta BeltLine or Colorado E-470



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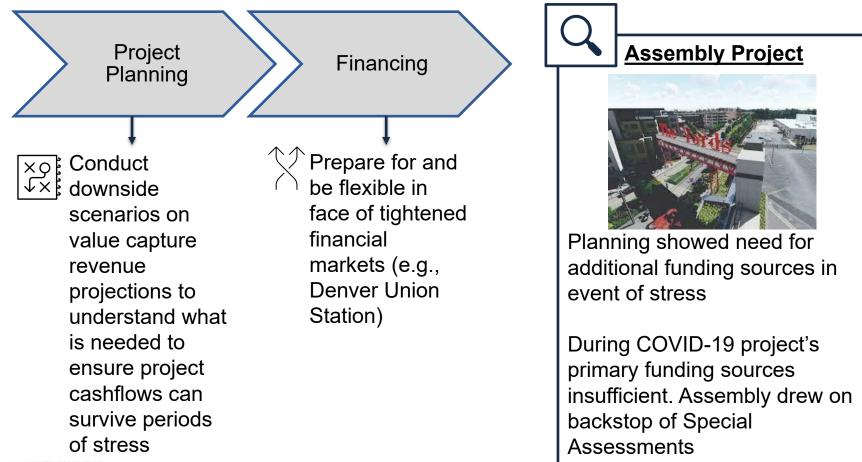


	Mitigation Tool
∿ ⊾	Analyze Downsides
	Over-collateralize
T	Build in reserve funds
EX X	Collect revenues before project start
	Reduce early cash flow pressure
AAA	Develop projects by phase
	Backstop with creditworthy sources



Analyze Downsides





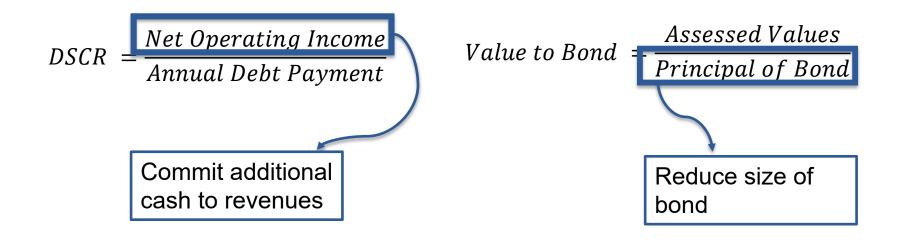




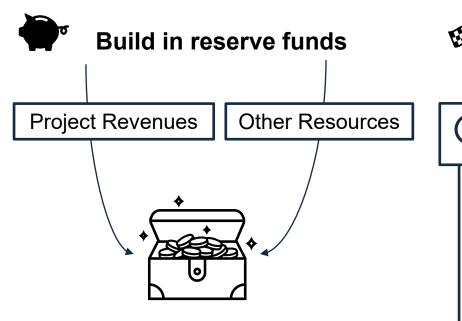


Over-collateralize

Increase the Debt Service Coverage Ratio (DSCR) & Value to Bond Ratio







- \checkmark Either at sponsor's discretion
- ✓ Or, required per financial documents (e.g., Mosaic)

Collect revenues before project start

Parole Town Center



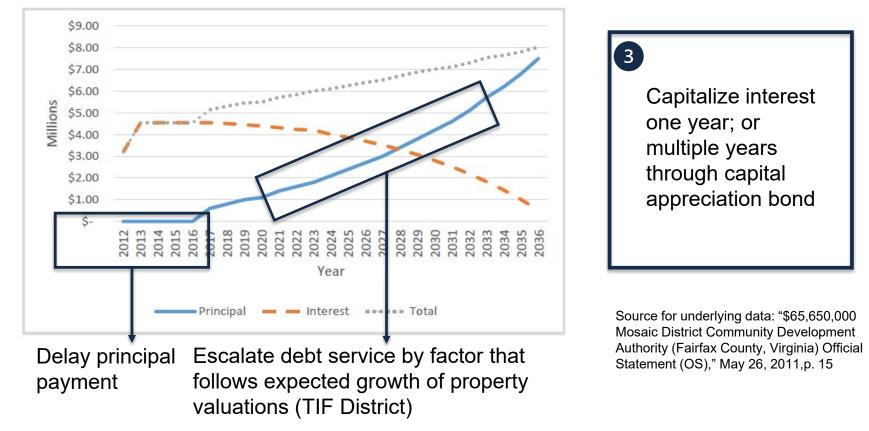
2.4 mile-TIF district established 3 years prior to financial close. In those 3 years, property values within district grew by 6%+/year, resulting in 500,000-\$1M to fund debt service in first year





Reduce early cash flow pressure

Mosaic Project Total Debt Service Payments 2012-2036





AAA Develop projects by phase

- Allows project to proceed as budgets and debt capacity become available
- May take longer this way; but can help ensure completion of project



47-mile toll highway forming half of beltway around Denver, CO.

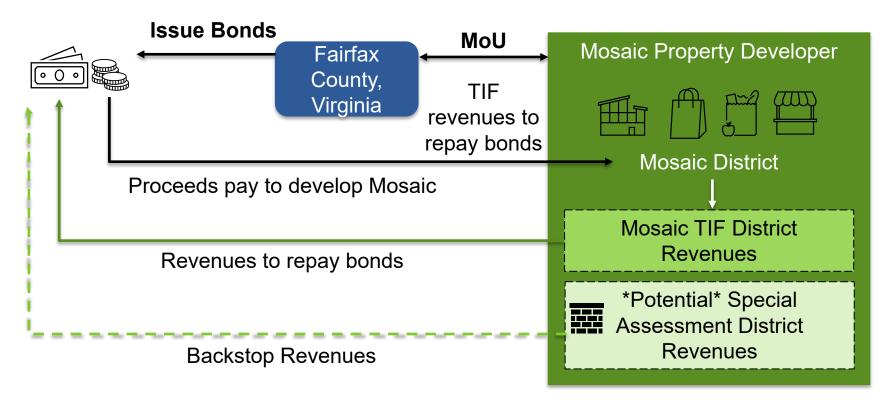
Built in segments in response to economic issues that affected toll and value capture related projects





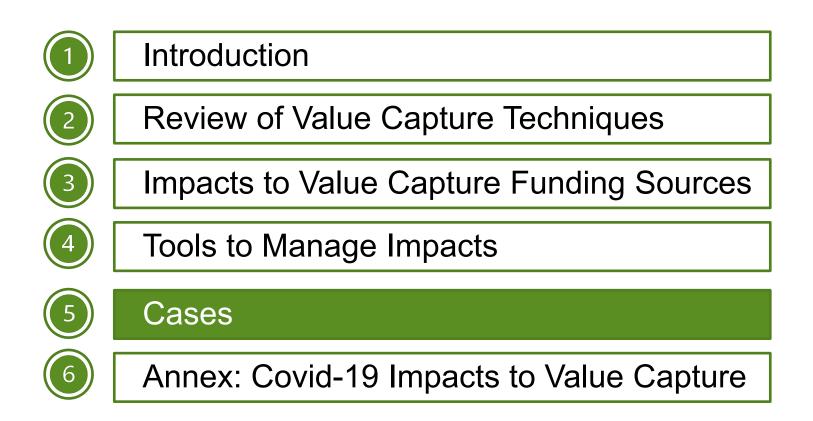
Backstop with creditworthy sources

For example, Mosaic shopping & dining complex deployed this tool in case of depression in property values





Presentation Outline





Planning and financing for Mosaic District integrated many tools to mitigate impacts of economic shocks



Mosaic District:

- Walkable, mixed-use, development in Northern VA
- Financed with TIFs and supported by special assessments
- Developed in post GFC era with financial measures that anticipated downturns

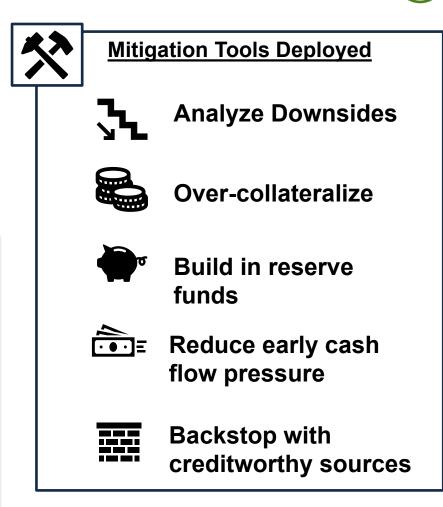


Image source: https://www.fcrevite.org/merrifield/mosaic-district

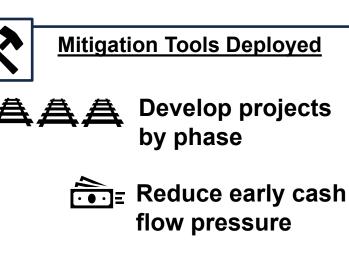


Project phasing and reduced early cash flow pressure helped Atlanta BeltLine weather economic shocks



Atlanta BeltLine

- Transforming Atlanta's mostly abandoned freight rail corridors into a 33-mile trail network and ~22 miles of transit
- Financed with TIF and Special Assessment
- Experienced reduction in expected TIF revenues during GFC



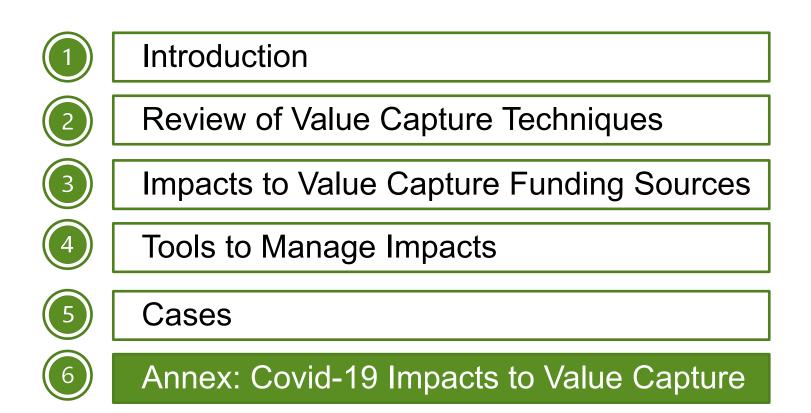
Mitigation Tools that could have helped, if deployed

L Analyze Downsides

Image source: Christine Shepherd



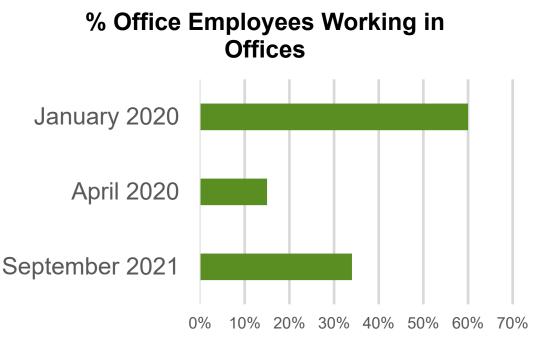
Presentation Outline





The Pandemic may affect the future location of major employee occupational groups...

This will primarily affect office workers and have implications for transit and real estate



Source: Cushman & Wakefield, "Predicting the Return to the Office," September 2021,pp. 10 &16.

...during Pandemic, material number of employees have shifted to working from home (WFH)



Several studies concluded that WFH Pandemic employee productivity was same as before or higher

13% productivity increase

- · Less break time
- Quieter work
 environment

5% productivity increase

- 1/2 due to real productivity gain
- 1/2 due to reduced commute

Source: Bloom, Nicholas et al. "Does Working from Home Work? Evidence From a Chinese Experiment," *The Quarterly Journal of Economics* (2015), 165–218. Source: Barrero, Jose Maria, "The Work-From-Home Outlook in 2022 and Beyond," Work From Home Research, January 2022.

Other evidence

- Reduced commute
- Less unproductive "water cooler talk"
- More exercise time
- Quiet spaces for complex work
- Greater work/nonwork balance

Shea, Christopher, "No Commute, Less Water Cooler Talk, More Exercise, Maximum Productivity," *The Washington Post*, October 14, 2021.



Despite what Elon Musk says, the hybrid—smaller workplace may become the new normal

- No hybrid work \rightarrow 40% of employees would seek another job*
- Reduce space needs by 10 to 20 percent?

Monday	Tuesday	Wednesday	Thursday	Friday
Work	Home	Work	Work	Home

* Source: Grant Thornton, "Grant Thornton Survey: Employees value flexibility over salary increases — one-third looking for new jobs," October 6, 2021, p.1



The nature of the office—purpose, layout, location may change

More space for team-based work



New layouts: less open plan, more conference & training space



Changing office locations





White-collar employees are more likely to work outside of the office

• Long-term maybe 30% of U.S. work force will WFH some of time

Occupation	% of U.S. Workforce*	Type of Work	WFH Candidate?
White Collar	26%		~
Blue Collar	23%		X
White Coat	52%		Х?

* Source: U.S. Bureau of Labor Statistics, "Labor Force Statistics from the Current Population Survey."



In addition to office, there are other real estate sector losers and winners











Food/beverage and retail



Hotels and conferencing





Residential real estate



Office to residential conversions



"Third location" and entertainment/leisure destinations



Changing patterns of real estate demand within metropolitan regions may affect real estate growth

Outer neighborhoods, inner suburbs: thriving residential incl. multi-family, third locations, entertainment, office? Outer suburbs:

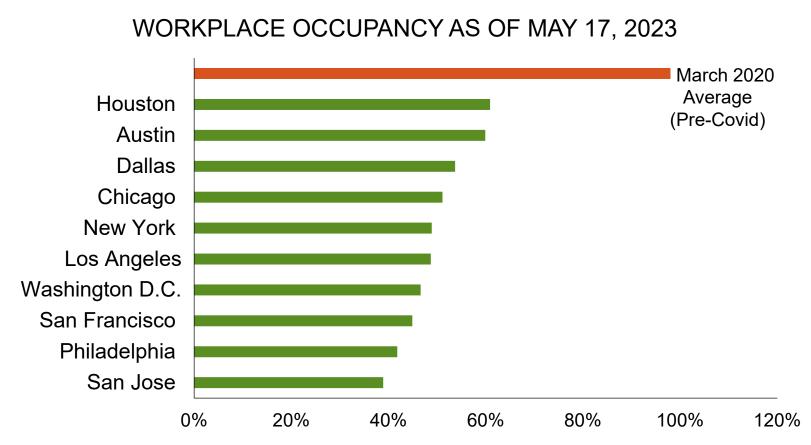
Downtown districts:

reduced office, retail, food; increased residential (incl. through conversions), entertainment

more residential?



Real estate is more complicated . . . by region (1/2)



Source: https://www.kastle.com/safety-wellness/getting-america-back-to-work/, accessed May 23, 2023 Note: Occupancy figure reflects swipes of Kastle access controls



Real estate is more complicated . . . other nuances (2/2)

LEED	Quality/LEED buildings leased more
	Also, buildings maximizing health and safety
	Older, poor-quality buildings conversion candidates?
5	Big tech share increasing, including laboratory
	Properties with strong transit accessibility still more attractive



Impacts to real estate, transit, and value capture

Real estate:

- Office occupancy impaired as firms go hybrid
- Reduction of office days ≠ 1:1 leasing decline
- Changing locations



Transit: fewer passengers and diminished joint development interest in certain locations

Value capture:

- Lower property value appreciation dampens tax increment finance
- Lower assessments hurts special assessments
- Fewer eyeballs decreases naming rights \$





Links to Resources

- Managing Economic Shocks to Value Capture-Funded Projects: <u>https://www.fhwa.dot.gov/ipd/value_capture/vcsp/fhwa_hin_</u> <u>22_002/executive_summary.aspx</u>
- General Resources on Value Capture: <u>https://www.fhwa.dot.gov/ipd/value_capture/resources/value_capture_resources/general.aspx</u>
- Value Capture Toolkit: <u>https://www.fhwa.dot.gov/ipd/value_capture/toolkit/</u>



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