

# STATE OF THE INFRASTRUCTURE:

## PANEL #1

### INFRASTRUCTURE FUNDING CHALLENGES

May 21, 2018



## Panelists:

- ▶ Joe LaHait, Debt Manager, Fairfax County Government - Supporting Economic Development through Special District Financing
- ▶ Stacy Swann, Climate Finance Advisors and Vice Chair of the Montgomery County Green Bank - Financing Clean Energy Improvements through Green Banks
- ▶ Holger Serrano, Assistant to the Director of Public Works, Howard County Government - Howard County's Courthouse Project: Public Private Partnership

## Moderator:

- ▶ Joseph F. Beach, Chief Financial Officer, Washington Suburban Sanitary Commission

# Introduction

- ▶ Three different approaches
  - ▶ Property Tax Based
  - ▶ Clean Energy and non-traditional sources of financing
  - ▶ Public Private Partnerships
- ▶ Much More could be covered
  - ▶ State and Federal Funding Challenges
    - ▶ Availability
    - ▶ Compliance
    - ▶ Timing
  - ▶ Citizen & Customer Expectations
  - ▶ Debt Limitations
  - ▶ Taxpayer/Rate Payer Expectations
  - ▶ Social Impact Bonds

# Supporting Economic Development through Special District Financing - Overview

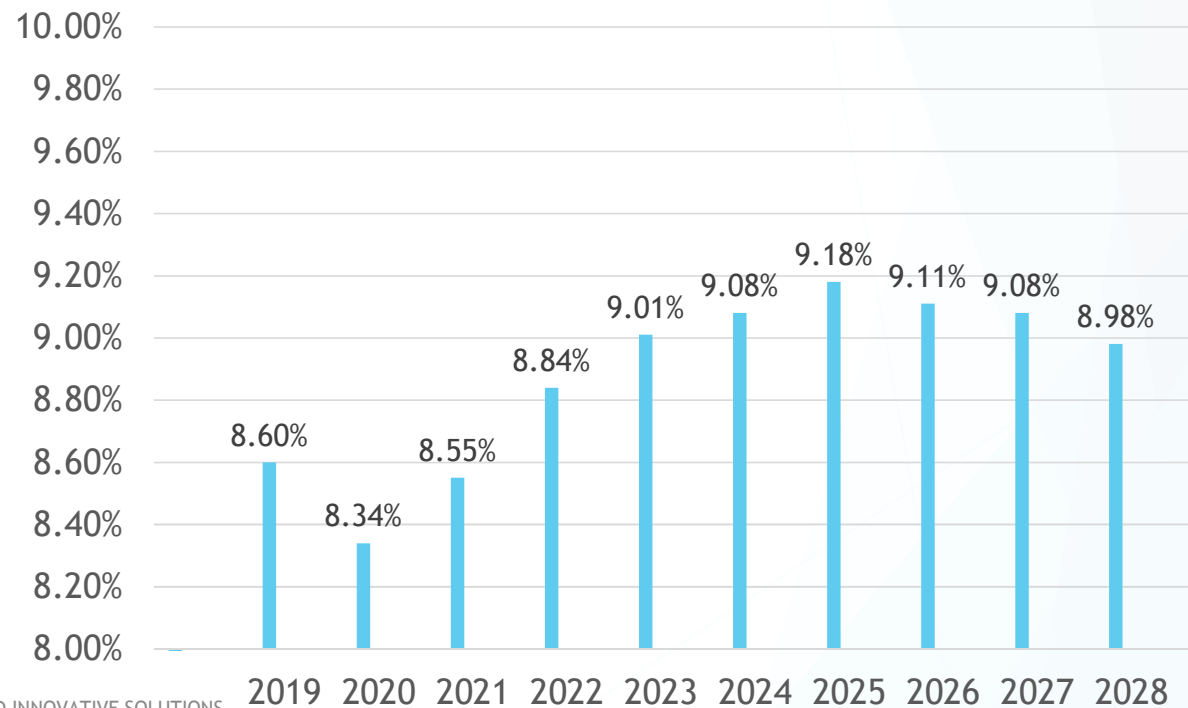
- ▶ How to Fund Capital Projects
  - ▶ Pay As You Go (PAYGO) - Annual cash provided to fund projects
  - ▶ Issuing Bonds
    - ▶ A form of borrowing commonly used by municipal and state governments and large corporations
    - ▶ Amortization period of 20-30 years; tie to useful life of the project
  - ▶ Equity Principle “Who Pays” - current vs future generations
- ▶ Comprehensive Plan provides planning guidance for out year projects
- ▶ The County FY 2018 - FY 2022 Capital Improvement Program (CIP) totals \$9.99 billion
  - ▶ Sensitivity to existing projects to be funded

# Supporting Economic Development through Special District Financing - County Traditional Funding Approach

## ▶ General Obligation Bond Referenda Plan

- ▶ Dates back to 1966
- ▶ Includes County and School bond referenda in alternate years
- ▶ The Bond Referenda Plan is developed based on prioritized projects in conformance with the 10 Principles of Sound Financial Management
  - ▶ Established Strict Debt Ratio Limits - 10%

Annual Debt Service Payments  
Less than 10% of Revenues



# Supporting Economic Development through Special District Financing - Regional Transportation Projects

- ▶ County was facing a myriad of special projects that require significant capital contributions
  - ▶ Metro Silver Line expansion
  - ▶ County owned parking garages to support the Silver Line expansion
  - ▶ Transportation funding plans to accommodate Transit Oriented Development
  - ▶ Aging administration buildings
- ▶ How to finance these projects without steering capital funding away from traditional County and School financing projects
- ▶ Virginia code provides for various special tax districts
  - ▶ Transportation Improvement Districts
  - ▶ Special Service Districts
  - ▶ Sanitary Districts

# Transportation Improvement District

Item	Criteria	Example
How to Establish	Voluntary petition of majority of landowners by Assessed Value or land area	<ul style="list-style-type: none"> <li>Dulles Rail Phase 1 - petition constituted 53% of assessed value in the district</li> <li>Dulles Rail Phase 2 - petition constituted 60% of property in the district</li> </ul>
Types of Improvements	Construct, alter, improve, or expand transportation improvements	<ul style="list-style-type: none"> <li>Dulles Rail Phase 1</li> <li>Dulles Rail Phase 2</li> <li>Route 28 Highway Improvements</li> </ul>
Revenue Sources	Annual ad valorem tax rate applies to commercial and industrial properties (includes multi-family)	<ul style="list-style-type: none"> <li>Dulles Rail Phase 1 Tax Rate \$0.13 per \$100 of Assessed Value</li> <li>Dulles Rail Phase 2 Tax Rate \$.20 per \$100 of Assessed Value</li> <li>Route 28 Tax Rate \$0.13 per \$100 of Assessed Value</li> </ul>
Debt Issuance	<p>Bonds can be secured by revenues and other funds of the district</p> <p>Revenues generated pay back the debt for these districts</p>	<ul style="list-style-type: none"> <li>Dulles Rail Phase 1 issued three series of bonds</li> <li>Dulles Rail Phase 2 weighing debt/PAYGO options</li> <li>Route 28 has issued debt since 1990's</li> <li>District abolished when debt paid off</li> </ul>

# Supporting Economic Development through Special District Financing - Metrorail Silver Line Expansion & Use of Transportation Improvement Districts

- ▶ Metropolitan Washington Airports Authority (MWAA) will design and construct the project in two phases
- ▶ Washington Metropolitan Area Transit Authority (WMATA) will assume ownership and operation of the Silver Line, also in two phases
- ▶ Total project estimate of \$5.8 billion with the County responsible for 16.1% or \$927 million of baseline costs
- ▶ County established two Transportation Improvement Districts for the project to cover capital costs
  - ▶ Phase 1 - \$400 million
  - ▶ Phase 2 - \$330 million
  - ▶ These two districts cover approximately **80%** of the County's baseline costs to this project
- ▶ Phase 1 opened in July 2014 and brought five stations and one parking garage to Fairfax County
- ▶ Phase 2 anticipates to open in 2020\* and will bring three stations and two parking garages to Fairfax County

\*final date determined via review by WMATA Board of Directors

## Supporting Economic Development through Special District Financing - Fairfax County Silver Line Costs

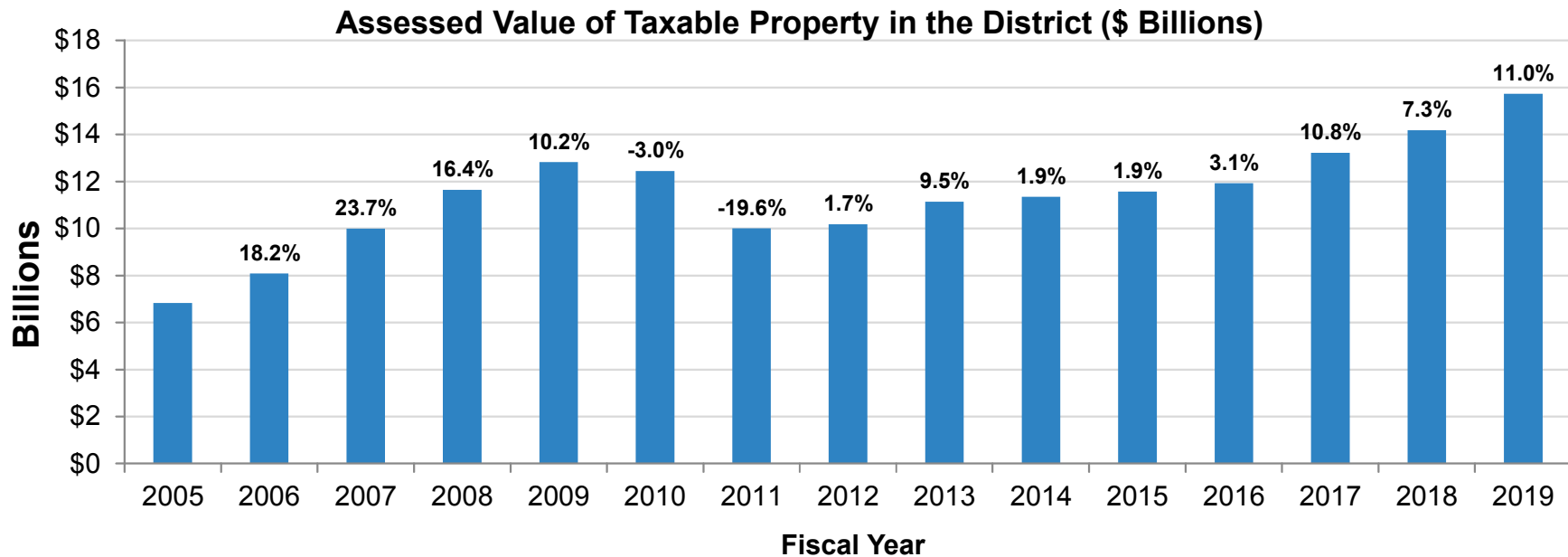
Item	Amount
<b><u>County Baseline Costs @ 16.1%</u></b>	
Phase 1 Tax District	\$400,000,000
Phase 2 Tax District	330,000,000
Commercial & Industrial Tax Fund	187,688,868
Northern Virginia Regional Transportation Authority	<u>9,660,000</u>
<b>Total County Baseline Costs @ 16.1%</b>	<b>\$927,348,868</b>
<b><u>Parking Garages</u></b>	
Wiehle-Reston East	\$89,860,000
Herndon	44,900,000
Innovation Center	<u>52,000,000</u>
<b>Total Garages</b>	<b>\$186,760,000</b>
<b>TOTAL - Baseline and Parking Garages</b>	<b>\$1,114,108,868</b>

# Supporting Economic Development through Special District Financing - Dulles Rail Phase 1 Tax District

- ▶ The Phase I Tax District was created in February 2004 upon the petition of the owners of approximately 53% of the commercial and industrial property in the District by assessed value
- ▶ Surcharge tax applied initially in FY 2005 budget at \$0.22 per \$100 of Assessed Value
  - ▶ Statutory limit is \$0.40 per \$100 of Assessed Value
- ▶ The Phase 1 District boundaries encompass approximately 11.7 miles in length
- ▶ Located along the Dulles Airport Access Road / Toll Road corridor, running from the Orange line just before Tysons Corner to Wiehle Avenue on the eastern edge of Reston
- ▶ Encompasses Tysons commercial submarket
  - ▶ The largest of County's 17 office submarkets
  - ▶ 37 million square feet of office, commercial & retail space
  - ▶ Phase 1 ends at Wiehle-Reston East which entails mixed use Transit Oriented Development



# Supporting Economic Development through Special District Financing - Dulles Rail Phase 1 Tax District



Fiscal Year (Valuation Date)	2005 (1/1/04)	2006 (1/1/05)	2007 (1/1/06)	2008 (1/1/07)	2009 (1/1/08)	2010 (1/1/09)	2011 (1/1/10)	2012 (1/1/11)	2013 (1/1/12)	2014 (1/1/13)	2015 (1/1/14)	2016 (1/1/15)	2017 (1/1/16)	2018 (1/1/17)	2019 (1/1/18)
Assessed Value (\$ in Billions)	6.83	8.08	9.99	11.63	12.82	12.43	9.99	10.17	11.13	11.35	11.56	11.92	13.21	14.17	15.73
District Tax Rate in \$ (per \$100 AV)	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.19	0.17	0.15	TBD
AV Growth	-	18.2%	23.7%	16.4%	10.2%	-3.0%	-19.6%	1.7%	9.5%	1.9%	1.9%	3.1%	10.8%	7.3%	11.0%

# Supporting Economic Development through Special District Financing - Dulles Rail Phase 1 Tax District

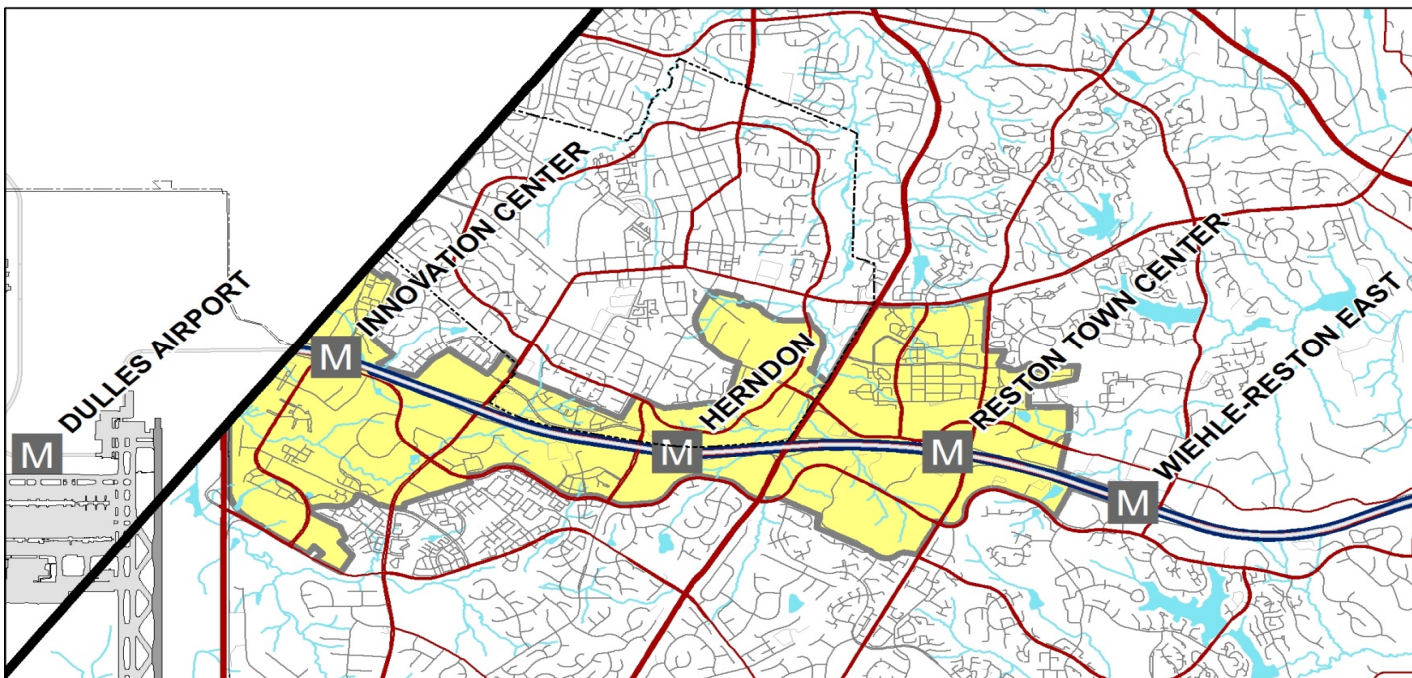
- ▶ Use of Tax District Revenues
  - ▶ District provided its \$400 million obligation for Phase through a combination of cash (\$131.6 million) and bond proceeds (\$268.4 million)
- ▶ Annual coordination with stakeholders
  - ▶ Meeting with District Advisory Board - property owners
    - ▶ Financial update on tax district & vote on district tax rate recommendation for upcoming fiscal year
  - ▶ Meeting with District Commission - select members of County Board of Supervisors
    - ▶ Receive tax rate recommendation from District Advisory Board and then vote on tax rate to include in overall County budget
- ▶ Strong debt profile - bond ratings of Aaa/AA/AA+ from Moody's, Standard & Poor's, and Fitch
  - ▶ Formal policy for maintaining debt service coverage, reducing the district tax rate, and reserve levels
- ▶ District is formally abolished once all debt is paid off

## Supporting Economic Development through Special District Financing - Dulles Rail Phase 2 Tax District

- ▶ The Phase 2 Tax District was created in December 2009 upon the petition of approximately 60% of the owners of the commercial and industrial property in the District by AV
- ▶ The petition called for an initial tax rate of \$0.05 per \$100 of Assessed Value (FY 2011), increasing in \$0.05 increments on an annual basis up to \$0.20/\$100 per \$100 of Assessed Value (FY 2014) and has remained at \$0.20 per \$100 of Assessed Value through FY 2019.
- ▶ After passenger rail service begins, the tax rate may be increased to \$0.25 per \$100 of Assessed Value
  - ▶ The statutory tax rate limit is \$0.40 per \$100 of Assessed Value
- ▶ Transportation improvements financed by the Phase 2 District are capped at \$330 million of project capital costs
- ▶ Tax Revenue restricted to pay project costs for Phase 2 and debt service costs related to the project

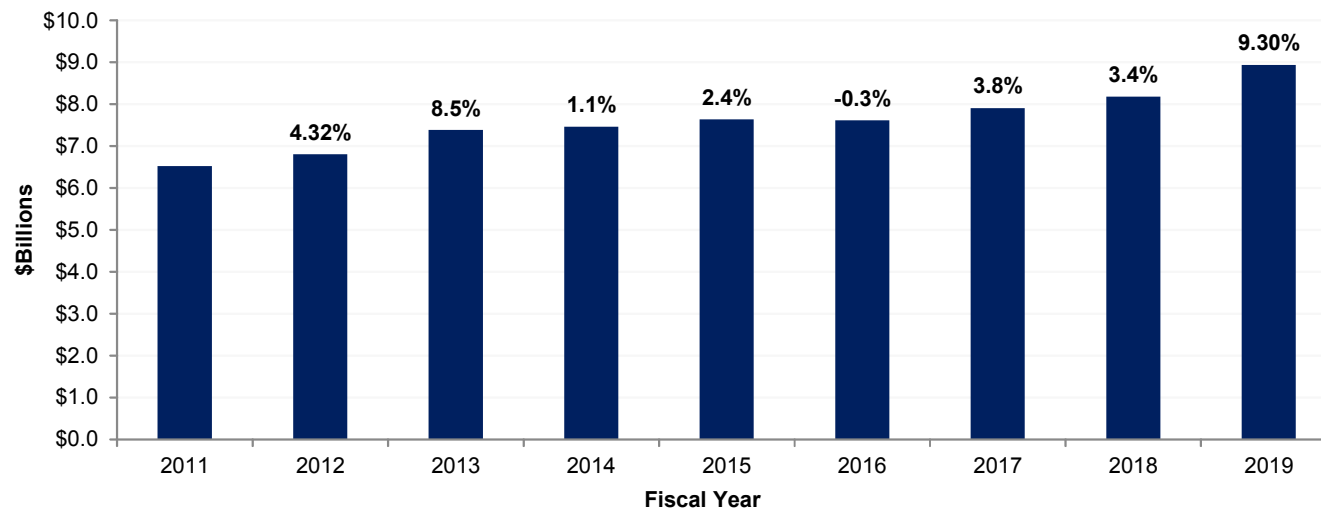
# Supporting Economic Development through Special District Financing - Dulles Rail Phase 2 Tax District

- ▶ Located along the Dulles Airport Access Road / Toll Road corridor
- ▶ Runs from the Wiehle Avenue station on the eastern edge of Reston through the Dulles Airport to the Route 772 station in Loudoun County
- ▶ Reston is currently the County's 2nd largest office submarket



# Supporting Economic Development through Special District Financing - Dulles Rail Phase 2 Tax District

Assessed Value of Taxable Property in the District (\$ Billions)



Fiscal Year (Valuation Date)	2011 (1/1/10)	2012 (1/1/11)	2013 (1/1/12)	2014 (1/1/13)	2015 (1/1/14)	2016 (1/1/15)	2017 (1/1/16)	2018 (1/1/17)	2019 (1/1/18)
Assessed Value (Billions)	\$6.52	\$6.81	\$7.38	\$7.46	\$7.64	\$7.62	\$7.91	\$8.18	\$8.94
District Tax Rate (per \$100 AV)	\$0.05	\$0.10	\$0.15	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20	\$0.20
AV Growth	-	4.32%	8.49%	1.07%	2.35%	-0.28%	3.82%	3.39%	9.30%

# Supporting Economic Development through Special District Financing - Dulles Rail Phase 2 Tax District

- ▶ Use of Tax District Revenues - \$330 million obligation for Phase 2 through:
  - ▶ Repayment of \$216 million toward Federal Transportation Infrastructure Financing and Innovation Act (TIFIA) loan
  - ▶ Cash on hand \$114 million
- ▶ Annual coordination with stakeholders
  - ▶ Meeting with District Advisory Board - property owners
    - ▶ Financial update on tax district & vote on district tax rate recommendation for upcoming fiscal year
  - ▶ Meeting with District Commission - select members of County Board of Supervisors
    - ▶ Receive tax rate recommendation from District Advisory Board and then vote on tax rate to include in overall County budget
- ▶ Bond ratings were received as part of the County's closing on its TIFIA loan but no additional debt is contemplated
- ▶ District is formally abolished once all debt is paid off

# Silver Line Funding Takeaways

- ▶ State provided the option for special tax districts
- ▶ Conduit financing - Fairfax County Economic Development Authority
- ▶ Project buy in from the business / development community - where residents and employers want to be located
- ▶ Transparency on all financial projections
- ▶ Political reactions -
  - ▶ Request from business community to self-impose tax
  - ▶ Does not take away funding for traditional capital projects (e.g. schools) and impact County debt ratios
- ▶ Debt issuance will require Financial Advisor and Bond Counsel for process guidance
- ▶ Notable increases in land values - but remember historical patterns
- ▶ Regional and national significance of the project
  - ▶ Federal TIFIA and State of Virginia funding
  - ▶ Regional transportation dollars from Northern Virginia Transportation Authority (NVTA)
- ▶ WMATA
  - ▶ Regional funding sources achieved to address long term capital needs
  - ▶ Current and projected ridership

# Financing Clean Energy Improvements through Green Banks

## Recap: Three Different Approaches

- Property Tax Based
- Clean Energy and non-traditional sources of financing
- Public Private Partnerships

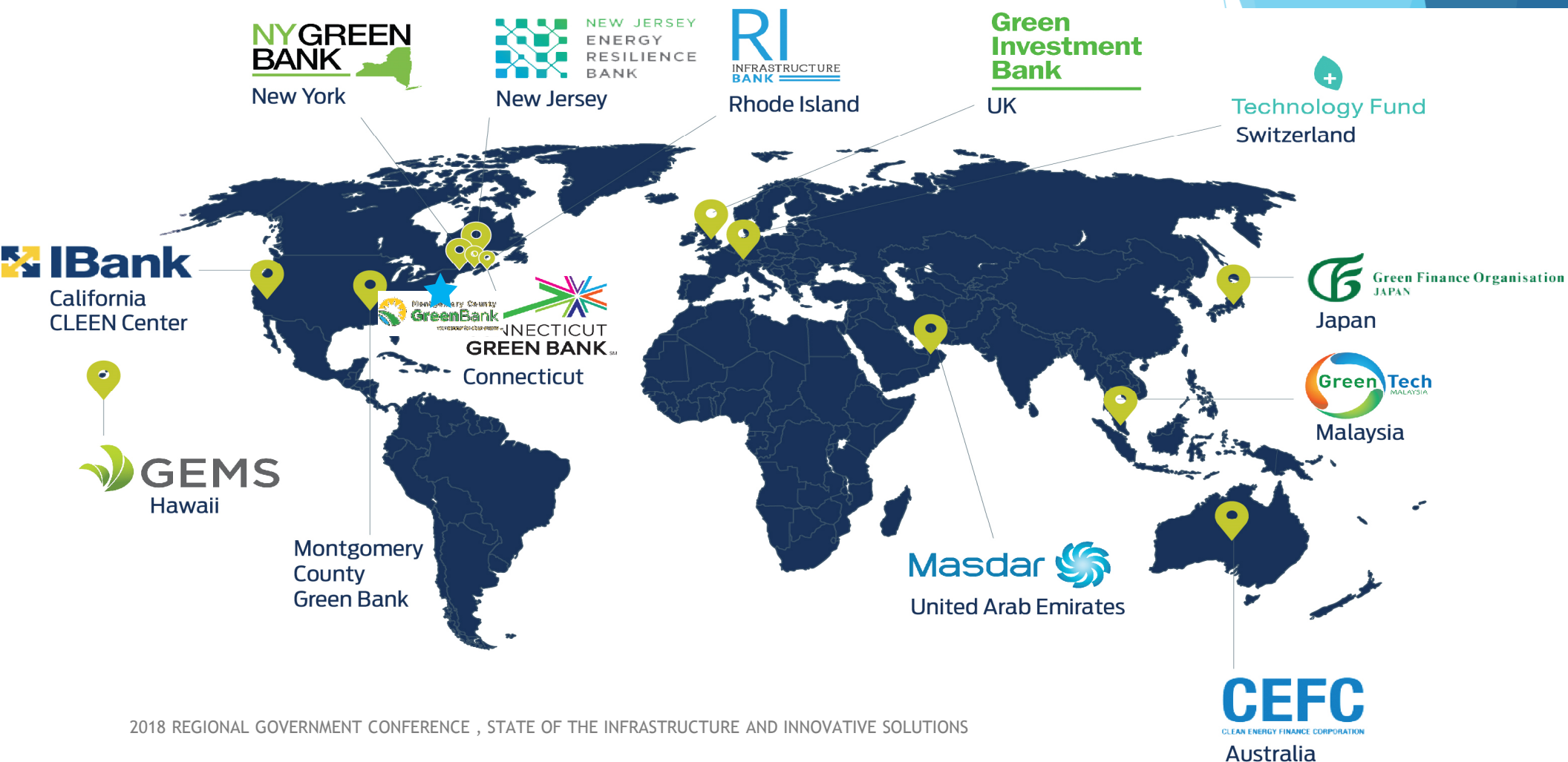
## Green Banks: Specialized Finance Entities

- “Blended Finance” vehicles - bridging public and private capital, including with capital markets
- Work locally/nationally where financing gaps exist
- Leverage public investment to crowd in private investment

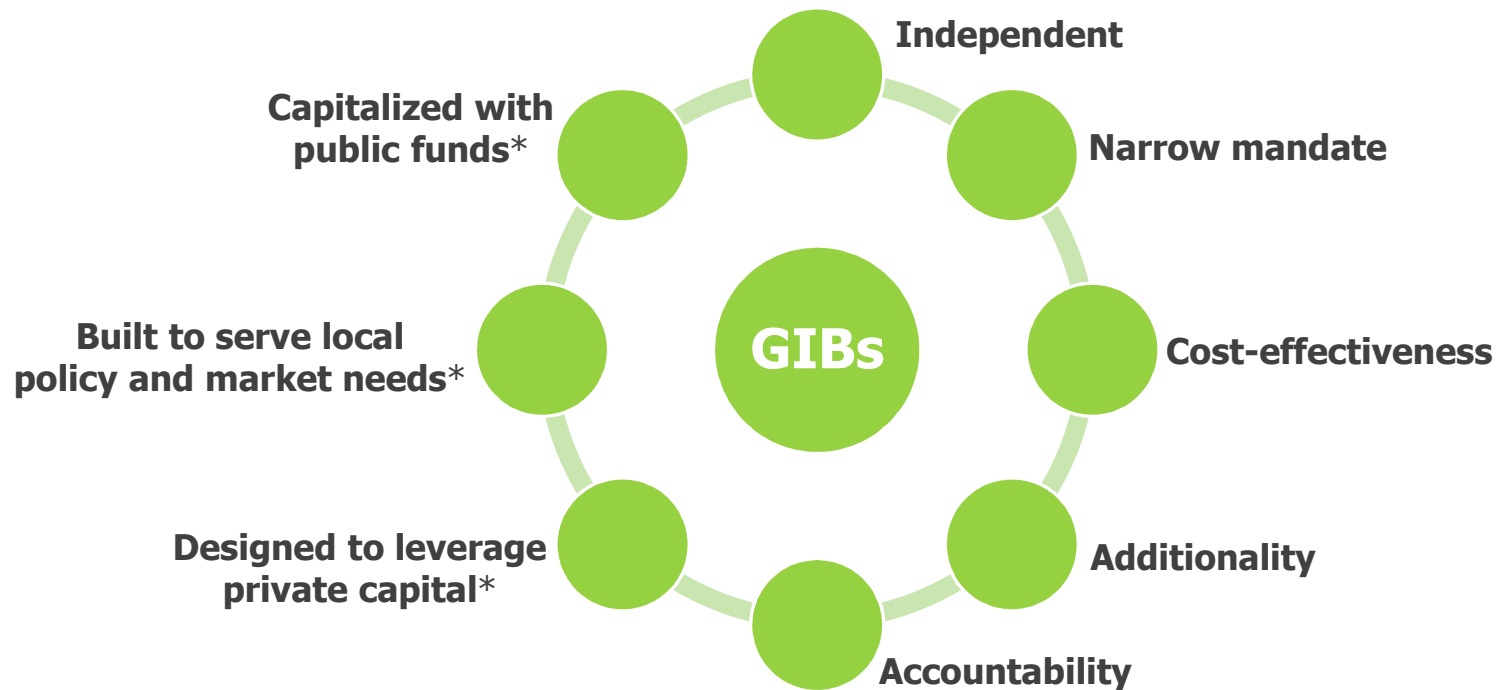
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# GREEN INVESTMENT BANK FOOTPRINT WORLDWIDE



# Characteristics of Green Investment Banks



A GIB is not a "bank" in the traditional sense, as does not take deposits, manage savings or provide direct financing to consumers

*Adapted from the OECD report, "Green Investment Banks: Scaling up Private Investment in Low-Carbon, Climate-Resilient Infrastructure", 2016.  
An asterisk indicates characteristics that have been added to the OECD's list.*

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## MCGB: Who are we?

### *Montgomery County Green Bank: Your Partner for Clean Energy*

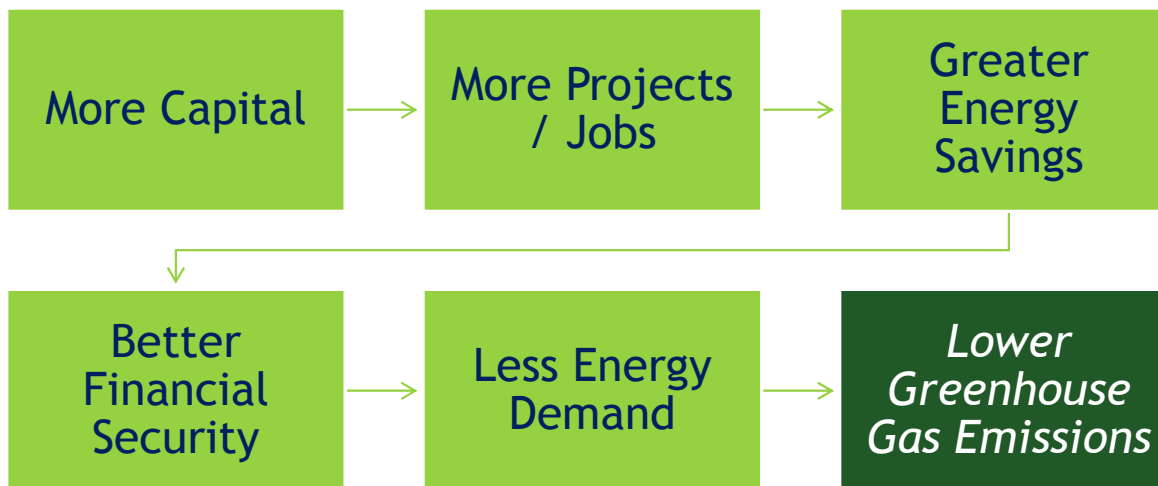
- The nation's FIRST County-level green bank:
  - designated in July 2016
  - chartered by the County in 2015
- Independent, 501(c)3 non-profit corporation; 11 Board Members (2 are County representatives)
- Not a Bank, **a fund/facility**
- Capitalized with \$14 million from County settlement from Pepco-Exelon merger



# What are we trying to do?

- ▶ In partnership, grow the clean energy market
- ▶ in Montgomery County.

## Cascade of results:



# How Do We Approach Our Work?



**Find gaps in the existing market** for private sector financing products (e.g., loans) offered to property owners for energy efficiency/renewable energy projects.



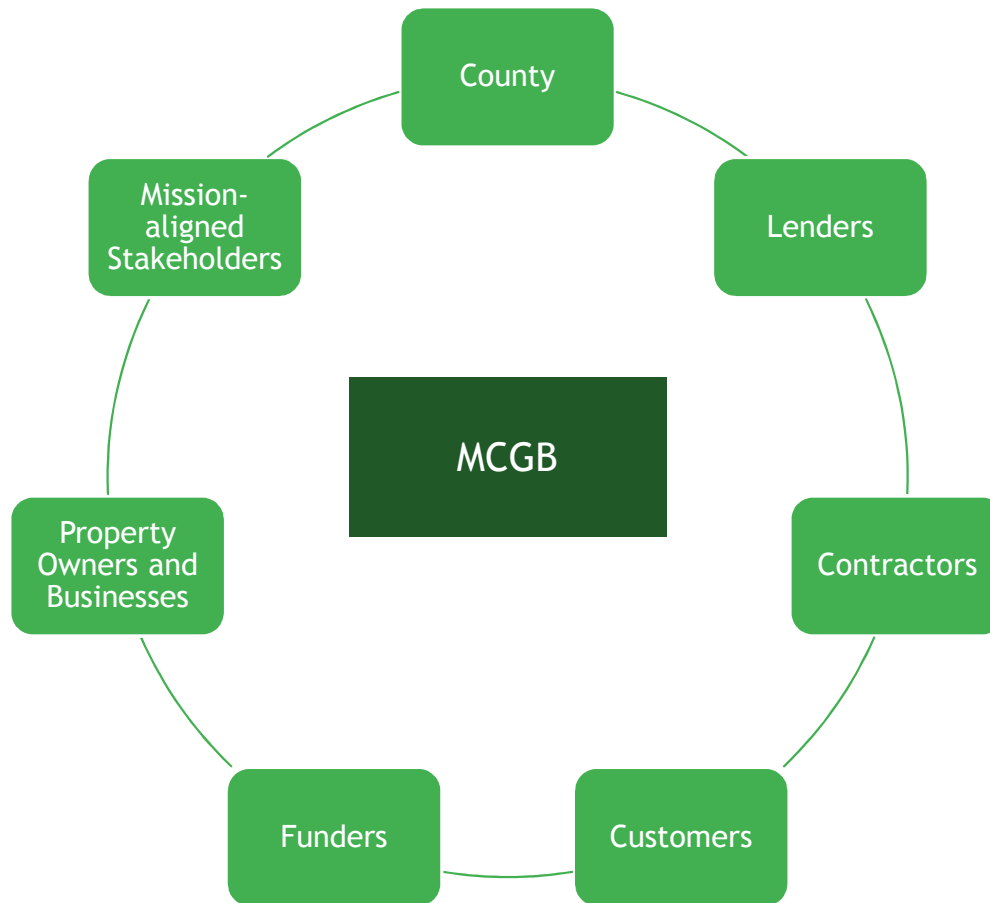
**Partner with private lenders to co-invest Green Bank capital**, reducing their risk in order to attract private capital into the market.



**Achieve transformation** when private lenders become comfortable with investing in these projects.



# What is Key to Our Success? Partnerships



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# Before Lift Off: Looking for Gaps Commercial and Industrial Sector

## Market Assessment (example from CLEER)

- C-PACE serves larger investments - \$250,000 and above.
- Pepco's Small Business Advance Program serves smaller businesses with grants and 0% financing.
- Contractors identified gap in financing for medium-sized businesses between Pepco Small Business Advance and C-PACE.
- Lenders are not proactive in this market and do not desire to underwrite the energy savings.

## Montgomery County Green Bank Response

- Develop a product that works in this identified gap.
- Reduce the risk for lenders by offering to cover initial losses incurred by lenders, making loans for energy efficiency and eliminate the concern on underwriting on energy savings.
- Leverage Green Bank funds by at least 10:1 using a loan loss reserve structure.
- Partner with contractors to deliver product to customers and close more projects.

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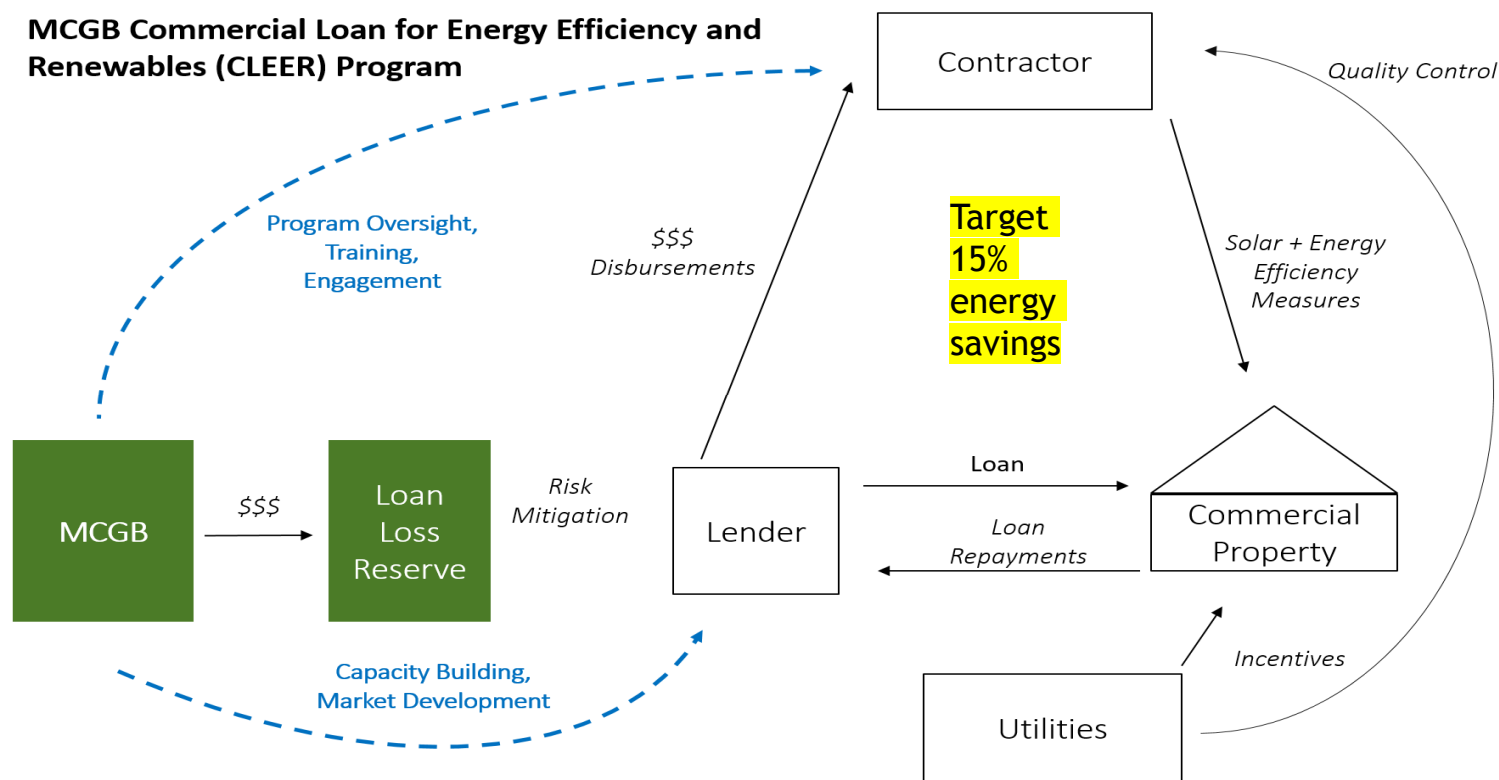


# Responding With A Construct: How the Green Bank Works

Our Financial Product:  
Guarantee to Lenders

Our Market Support: (i) Pre-Qualify Contractors;  
(ii) Coordinate Contractors  
with Lenders

**MCGB Commercial Loan for Energy Efficiency and  
Renewables (CLEER) Program**



# Financial Products in the MCGB Pipeline

## **Residential Energy Efficiency and Renewables**

- Homeowners throughout County
- Focus on low and moderate income households

## **Community Solar**

- Supports market and low and moderate income communities
- Various models under review

## **Affordable Rental**

- Low and moderate income communities
- Technical assistance support being evaluated

## **Commercial PACE**

- Large-scale commercial properties

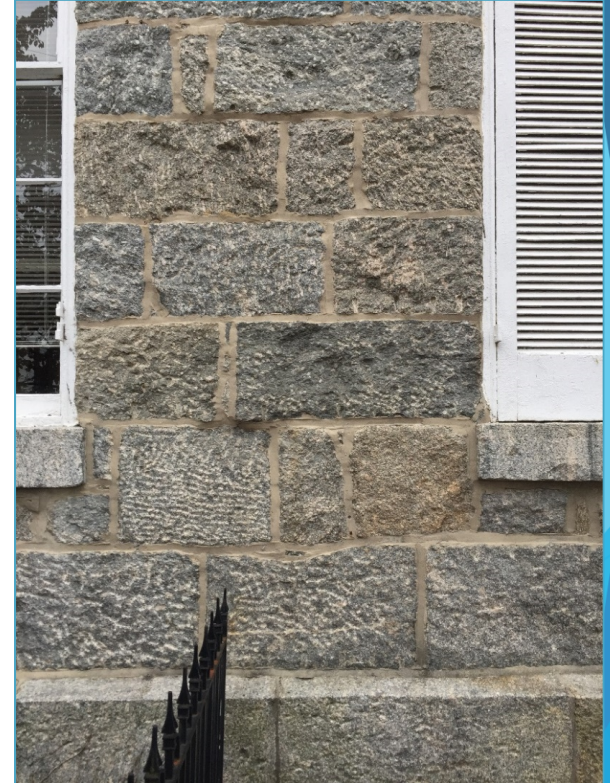


# Engage and Learn with Montgomery County Green Bank

- See our website - [www.mcgreenbank.org](http://www.mcgreenbank.org)
  - Sign up for our newsletter on the website (bottom of homepage)
- Follow us on:
  - Twitter: @mcgreenbank
  - Facebook
  - LinkedIn



# HISTORIC COURTHOUSE



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## Howard County's Courthouse Project: Public Private Partnership

- County Courthouse - 1843 (174 years ago)
- Renovated
- No space
  - State approved 6th judge
  - Technology enhancements
  - Required Federal and State mandates
- Existing building cannot be further renovated to solve space inadequacies

## Howard County's Courthouse Project: Public Private Partnership

- New Courthouse
  - 240,000 square feet
  - 680 space parking garage
- Use existing site in Ellicott City
- Eight courts
- Meet 2030 projected needs

# Howard County's Courthouse Project: Public Private Partnership

- How to fund the Project
- Fall 2016 - Outside consultant Project Analysis
- County Executive
- County Spending Affordability Committee
- County Council

## Howard County's Courthouse Project: Public Private Partnership

- Option 1. Conventional Model (DBB+OM):
  - Public financing with County 30-year GO bond
  - Traditional design and build
  - Multiple short-term operate and maintain contracts
- Option 2. Hybrid P3 - 1 (DBOM):
  - Public financing with County 30-year GO bond
  - Design, build, operate and maintain
- Option 3. Hybrid P3 -2 (DBfOM):
  - Partial public financing and partial private financing tentatively assuming 50/50
  - Design, build, operate and maintain
- Option 4. P3 (DBFOM):
  - Full private financing
  - Design, build, operate and maintain

## Howard County's Courthouse Project: Public Private Partnership

Key Evaluation Factors	Note	Option 1. Conventional (DBB + OM)	Option 2. Hybrid P3- 1 (DBOM)	Option 3. Hybrid P3- 2 (DBfOM)	Option 4. P3 (DBFOM)
Project Risk	1=least risk	3	2	1	1
Project Cost	1=least costly	3	2	1	4
Quality (building and O&M)	1=highest quality	4	3	2	1
Long-term Cost Certainty	1=highest certainty	3	2	1	1
Completion Time	1=fastest delivery	3	1	2	2
Total		16	10	7	9

Note: "Total" is listed for illustration purpose only because factors do not carry the same weight in decision making.

# Howard County's Courthouse Project: Public Private Partnership

Committee recommended Option 3. Hybrid P3-2 (DBfOM)

- Shifts a high level of risks to the private partners
  - Financing
  - Operational
  - Lifecycle maintenance
- Forecasts the lowest project cost in the long run
- Building in good operating condition - life-cycle investment.
- Provides both incentives and enforcement
  - Private partners sharing part of the financing
- Offers ability for efficiency gain and cost savings
  - Competitive bid
  - Integration between building design and long-term O&M needs
- Offers relatively fast construction delivery schedule
- Provides high certainty on future cost.

## Howard County's Courthouse Project: Public Private Partnership

- Project company selection June 2018
- Final Council vote July 2018
- Financial close September 2018
- Start - Design Fall 2018
- Construction complete Fall 2021

# Questions?

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