

Funding & Financing Structures

Futurewise
Innovative Financing and the Environment
October 20, 2017

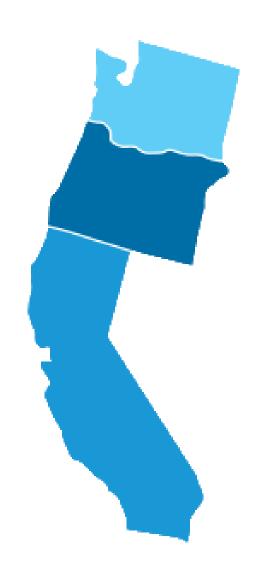
What Is WCX?

>501(c)(3) non-profit

➤ Formed by Oregon, Washington, & California

➤ Advised by British Columbia

➤ A publicly-funded resource to public agencies exploring Performance-Based Infrastructure (PBI) options



What Is Performance-Based Infrastructure?

An infrastructure delivery method that...

- Consolidates responsibility for the key aspects of a project's full lifecycle into a single, performance-based contract with a private partner
 - ➤ Design
 - **≻**Construction
 - ➤ Long-term Maintenance

➤ Can include, but does not require, elements of private sector financing and operational responsibility

PBI Key Concepts

➤ Public ownership / control

> Emphasis on full life cycle costs

➤ Pay-for-performance model with guarantees

➤ Asset management / long-term capital maintenance as contractual deliverable

PBI Key Concepts

> Focus on outcomes

➤ Risk allocation / transfer

For the right projects, better value for the public

PBI with Private Financing

- ➤ What are we talking about when we speak of PBI with private financing?
 - ➤ Debt & Equity
 - **≻**Debt
 - ➤ Can be tax exempt for certain types of projects
 - ➤ Bankruptcy protections
 - **≻**Equity
 - ➤ No bankruptcy protection
 - ➤ More expensive than debt

Why Consider Private Financing?

> Debt constraints

➤ Project acceleration

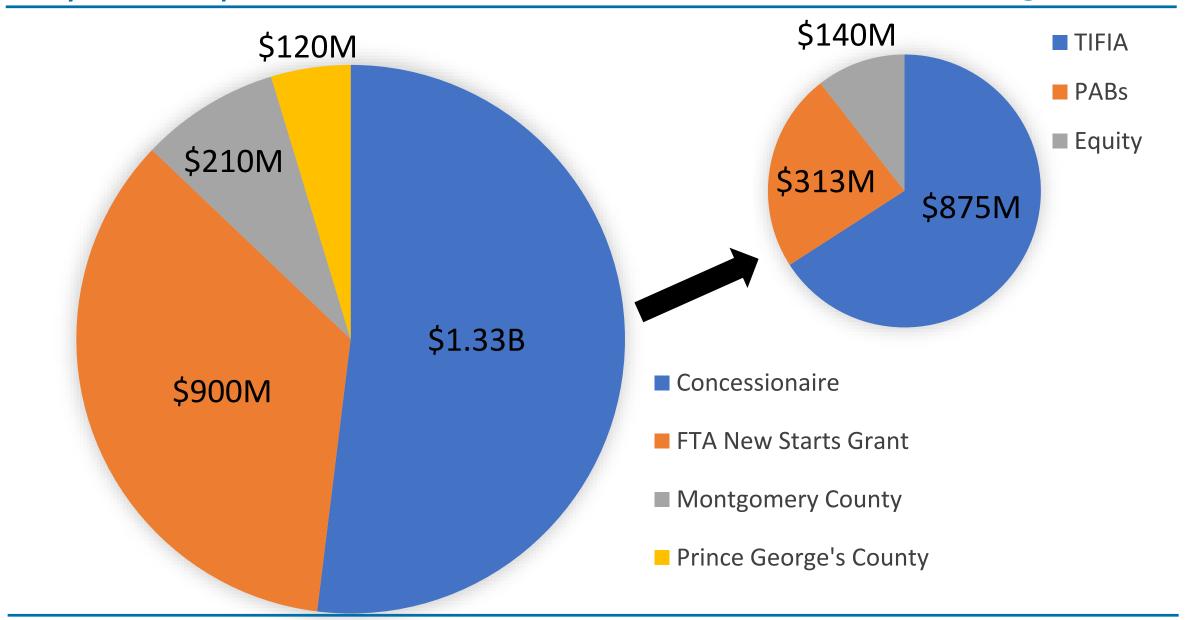
➤ Private financing can be tax-exempt and mixed with extremely low-cost public financing sources

>Additional scrutiny of performance

➤ Security for long-term performance / turnback provisions

	Purple Line (2016)	
PABs True Interest Cost	\$312,945,000 3.27%	
Credit Rating	BBB+	
TIFIA	\$875,000,000	
Cost of Financing	2.41%	
Weighted Cost of Debt	2.64%	
Equity	\$140,000,000	
Debt / Equity Ratio	89% / 11%	
Total Weighted Cost of Capital	3.10% - 3.62%	

Source: <u>Fitch Ratings</u>



PBI with Private Financing

	Poseidon Desal 2014	Woodland Davis 2012
Credit Rating	BBB-	N/A
Tax Exempt Bonds (\$)	\$734M	N/A
Cost of Financing (%)	4.78%	
Favorable SRF Financing (\$)	N/A	\$228M
Cost of Financing (%)		1.75%
Weighted Cost of Debt	4.78%	1.75%
Debt / Equity Ratio	82% / 18%	N/A
Total Weighted Cost of Capital	5.60%	1.75%

Source: InfraDeals

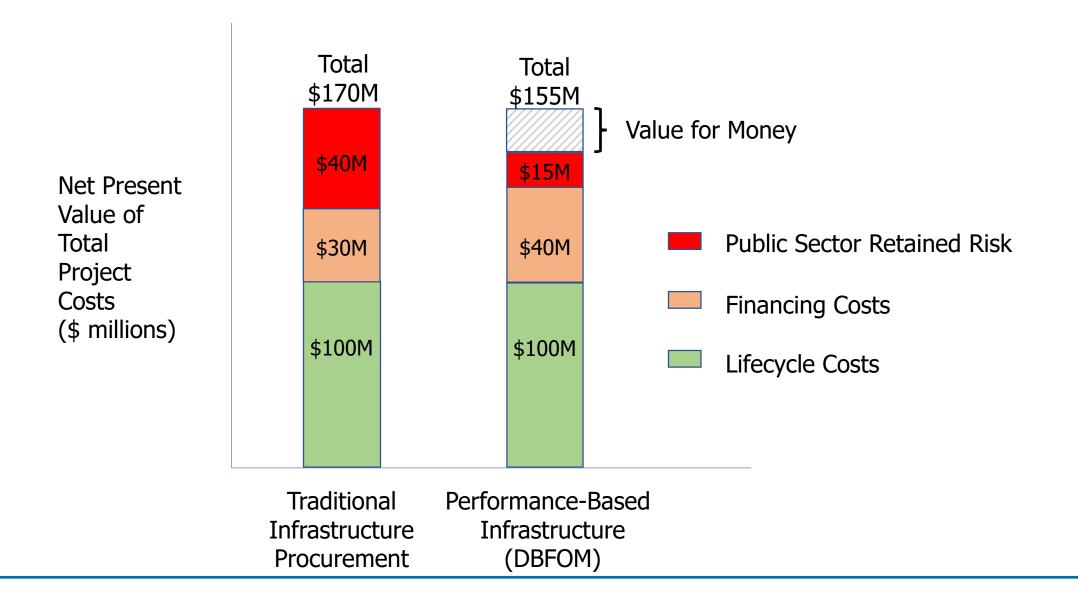
Value for Money Analysis

➤ An investment decision-making tool

- ➤"Apples to apples" comparison of different delivery options, accounting for
 - ➤ Risk allocation
 - ➤ Full life cycle cost

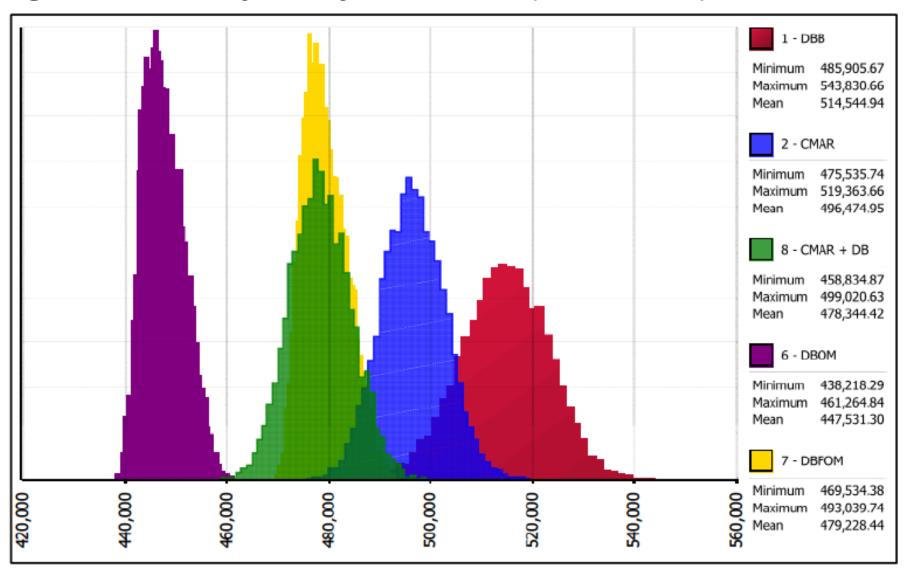
>"What is my risk-adjusted, full-life cycle cost under traditional and PBI project delivery methods?"

Value for Money: Illustration of Concept



Value for Money: Monte Carlo Analysis

Figure 1 - Total Risk-Adjusted Project Cost Estimates (\$NPV, thousands)





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