Asset Sustainability

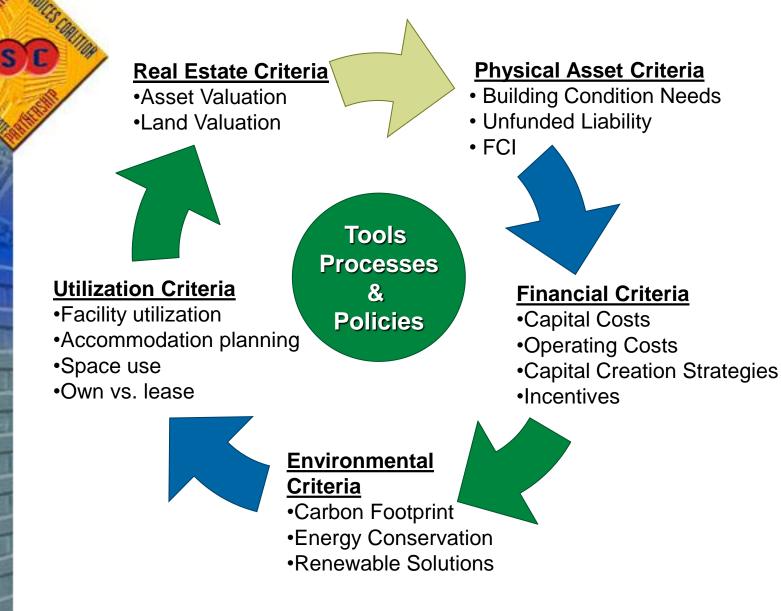
Intersecting Predictive Life Cycle Forecasts with Energy Performance

• Enhancing the Business Case

E(S)C



Decision Development Framework



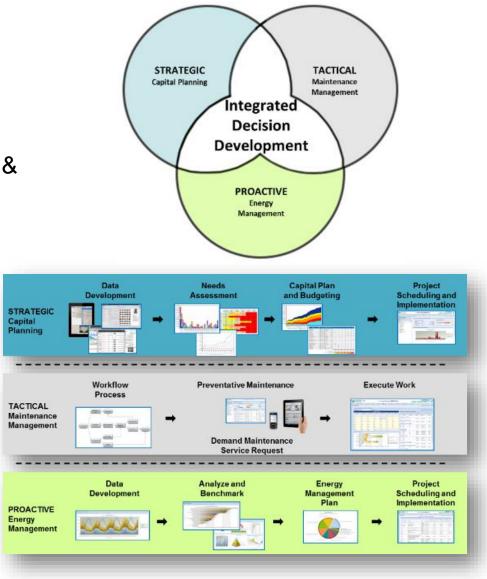
Integrated Decision Development

Financial / Capital Planning Dashboards

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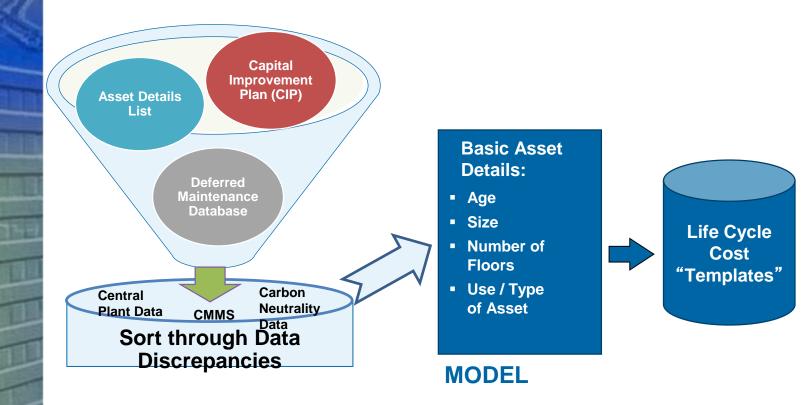
- Maintenance & Service Request mapping
- Energy use and optimization
- Measure Selection Roadmap



Data Development

- Disparate data sources with conflicting information
- Incorporate Life Cycle Predictive
 Analytics

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Next Generation Dashboards / Analytics

Energy
 Analytics and
 Performance

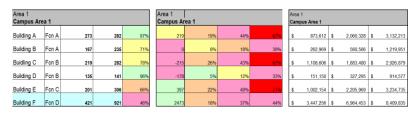
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- Life Cycle
 Needs
- Financial / Risk Base Analytics
- Utilization / Capacity Analytics

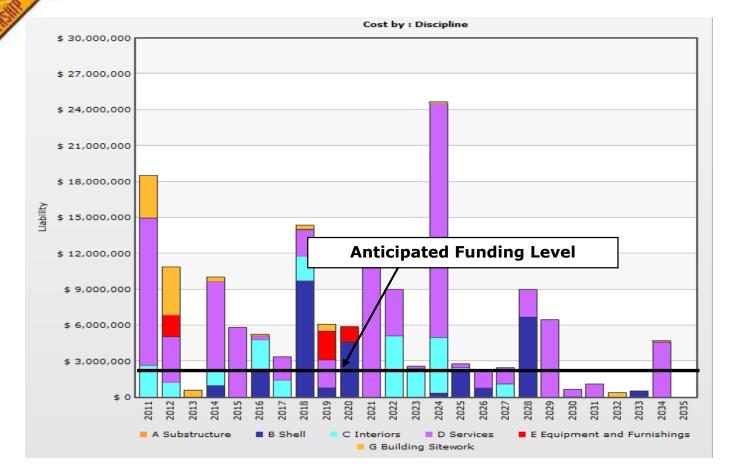


	Facilities Criteria					
Site	FCI	FCI	FCI	2015 to 2019	2020 to 2024	2025 to 2029
Expansion	(Facility	(Facility	(Facility	Cumulative	Cumulative	Cumulative
Potential	Condition	Condition	Condition	(Includes building	(Includes building	(Includes buildin
	Index) 2015	Index) 2020	Index) 2025	& site costs)	& site costs)	& site costs)
	to 2019	to 2024	to 2029			
tion	tion Expansion	Site FCI Expansion (Facility Potential Condition Index) 2015	Site FCI FCI Expansion (Facility (Facility Potential Condition Condition Index) 2015 Index) 2020	Site FCI FCI FCI ion Expansion (Facility (Facility (Facility ont Potential Condition Condition Condition Condition index 2015 Index 2020 Index 2025	Site FCI FCI 2015 to 2019 Jon Expansion [Facility (Facility (Facility Cumulative Interview Condition Condition Condition (Includes building Interview 2015 Index) 2020 Index) 2025	Site FCI FCI FCI 2015 to 2019 2020 to 2024 Jon Expansion (Facility (Facility (Facility Cumulative Cumulative



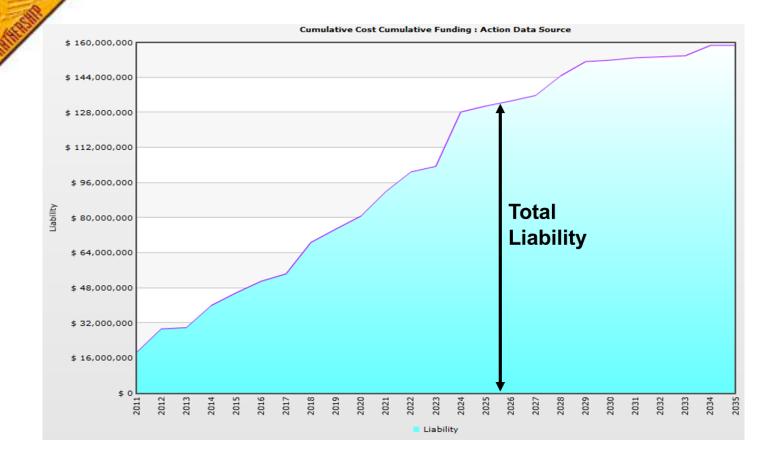


Projected Capital Needs



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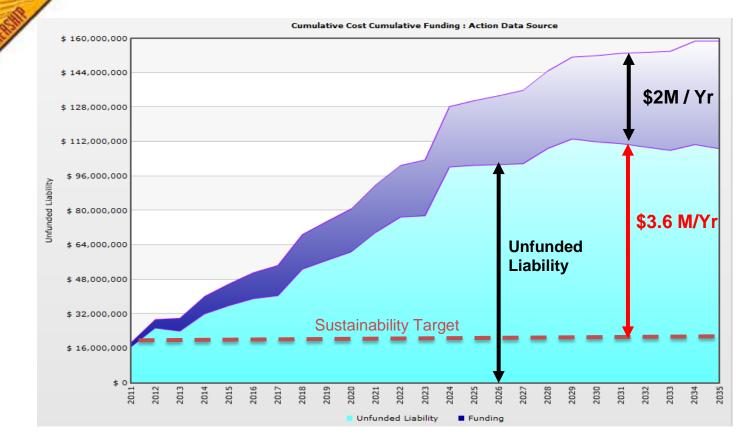
Projected Total Liability



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Unfunded Liability



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Capital Creation Strategies[™]

Leveraged and Bundled Capital Creation Strategies[™]:

- Energy Conservation
- ✓ Deep Retrofits

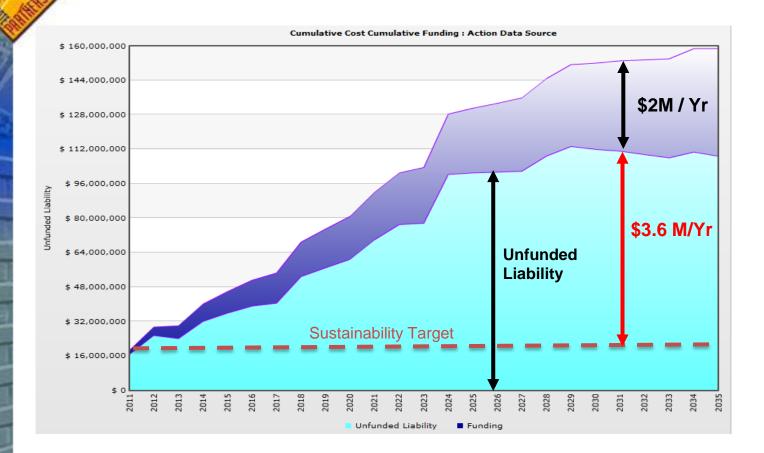
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- ✓ Renewable Solutions
- Maintenance
 Optimization
- ✓ Consolidation Strategies
- ✓ Redevelopment Strategies:



Unfunded Liability

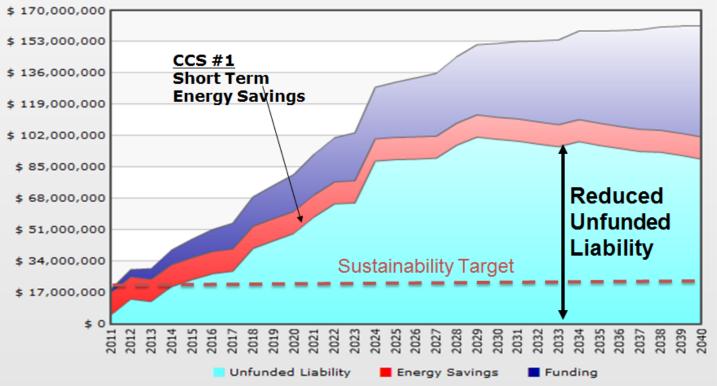


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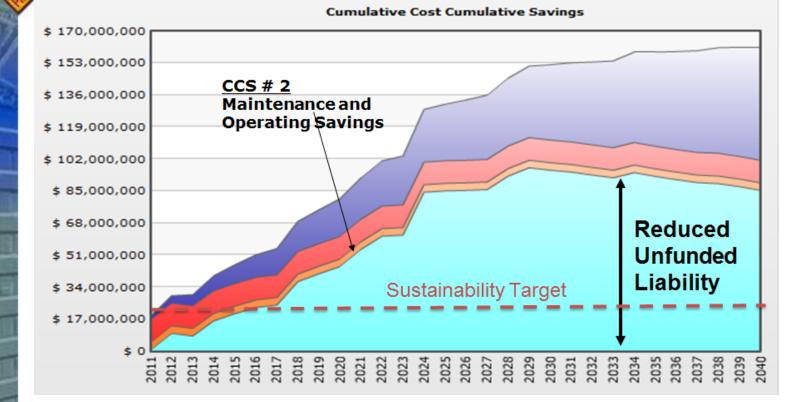
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Cumulative Cost Cumulative Savings

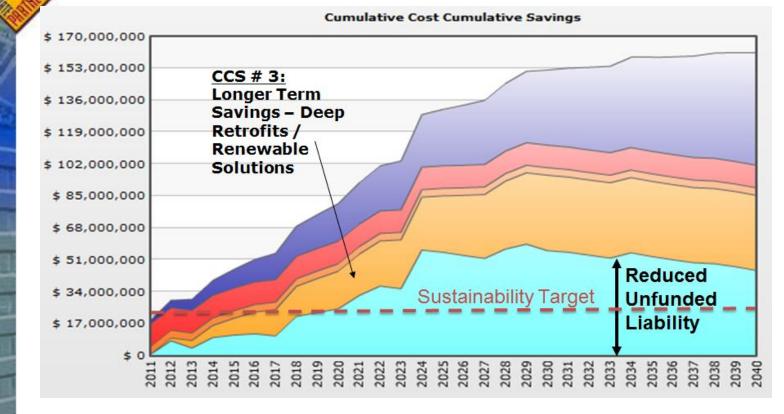


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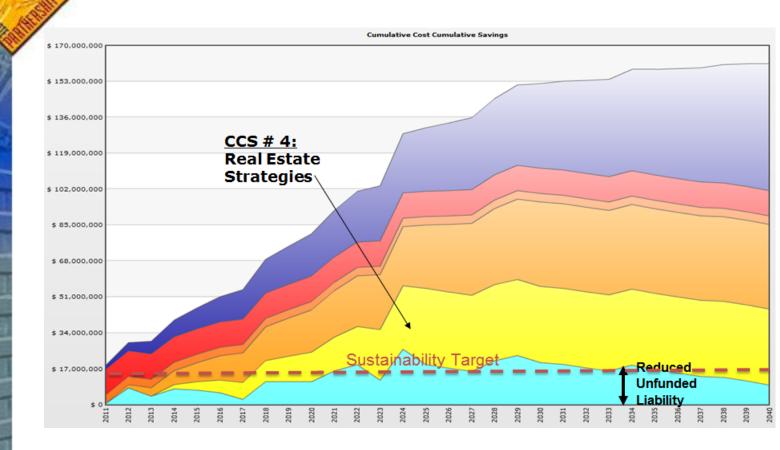
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THANK YOU!

E(S)C

Tim Dettlaff

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