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Agenda

- Adaptation Planning Framework
- Benchmarking
- Recommendations
- Project Challenges
- The Path Forward for Philadelphia

Client & Project Description

Client:

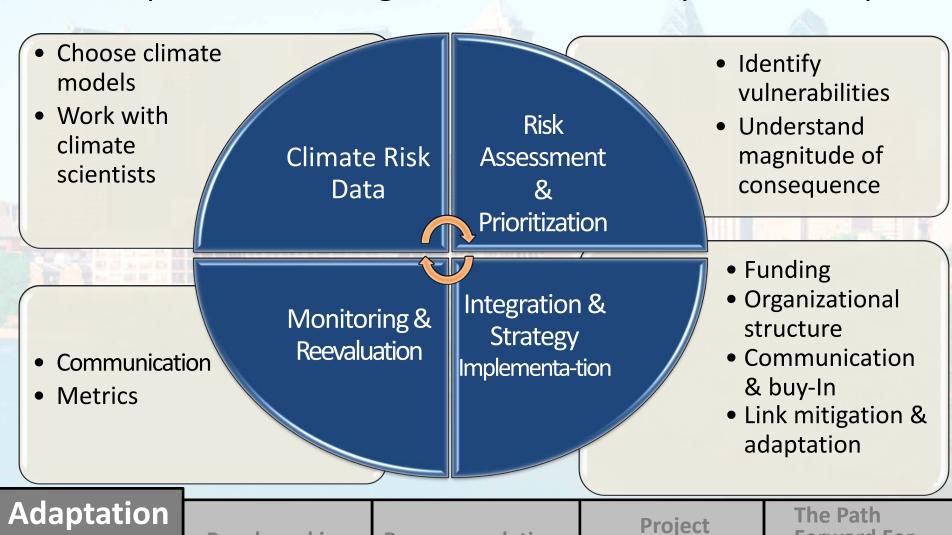
Mayor's Office of Sustainability – Philadelphia

Project Objectives:

- A planning primer to deal with climate risks
- Identify best practices from leading cities
- Provide a framework for adaptation planning

An Interconnected Framework

The Adaptation Planning Process for the City of Philadelphia



Recommendations

Benchmarking

Framework

Forward For

Philadelphia

Challenges























Finding Best Practices



City of Fort Collins





City of Keene













GREATER LONDON AUTHORITY

Adaptation Framework

Best Practices: Climate Data & Risk Assessment

- 1. Cities utilize local or regional climate models
- 1. Establish relationships with climate scientists early
- 1. Prioritize risks based on probability, magnitude and timing



Key finding: Cities must learn to work with uncertainty

Adaptation Framework

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Project Challenges

Best Practices: Securing Financing

- 1. Take a multifaceted approach
 - Federal and state grants and loans
 - Philanthropic groups
 - Public/private partnerships
- 2. Fund adaptation plan components individually
- 3. Establish regional partnerships
- 4. Revise codes, regulations, design standards

Key finding: Emphasize the link between mitigation and adaptation to widen the opportunities

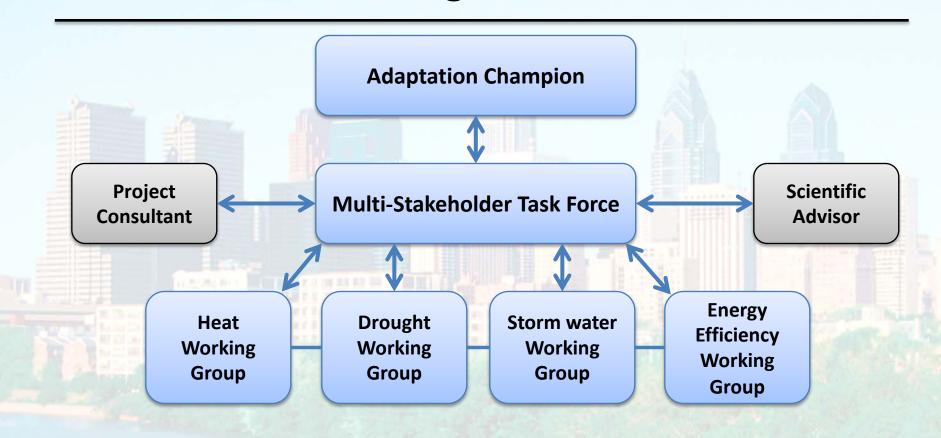
Adaptation Framework

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Best Practices: Organizational Structure



Key finding: Collaborate within the City and engage outside stakeholders early

Adaptation Framework

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Best Practices: Communication and Buy-in

- 1. Recognize there are differing views on climate change
- 1. Tailor messaging to combat misconceptions
 - Make it real
 - Use the right words, avoid jargon
- 2. Engage stakeholders
 - Get city agencies on board
 - Make citizens active participants



Key finding: Effective communication strategies are as important as adaptation strategies themselves!

Adaptation Framework

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Best Practices: Integrating Adaptation Planning

- 1. Involve city agencies early
- 2. Create internal process upfront
- 3. Stay flexible as process will evolve when new data is available
- 4. Incorporate climate change into planning process & capital plans

Key finding: Weave climate change into each City Department, each process, and into operations and planning.

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Best Practices: Monitoring and re-evaluation

- 1. Define indicators to measure outcomes
 - Evaluate strategy effectiveness
- 2. Utilize relevant new data



Key finding: Create a feedback loop for ongoing adjustments to adaptation strategies

Current strategies in Philadelphia

Mitigation Adaptation **EnergyWorks Energy-Efficient** Green City, Clean Waters Capital Investments City Car Management Plan Rain Gardens **Energy Load Demand Management LED Traffic Lights LEED Legislation Heat Alert System Greenworks Rebate Fund** Greenworks Loan Fund **Heat Emergency Cooling Locations** Weatherization Assistance Program **GHG Working Group &** Carbon Disclosure Project **Heat Education Campaign** Solar/PV Projects Green2015 Green lobs **Cool Roofs Ordinance** Plant One Million **Greenhouse Gas Inventories** Water Quality Standards Green Streets, Alleys, Roofs, Parking Smart Meters **Emergency Plans Air Management Services Energy Efficiency Fund** Smog Reduction Plan **Percy Street Porous Pavement** Anti-idling ordinance **EnergySense and Smart Ideas** Stream Restoring Reduce Vehicle Miles Traveled & **Bicycle Commuting** Recycling **Get Healthy Philly Hybrid Diesel Buses** Integrated Utility Bill Resilient Infrastructure: **Management System** South Street & 40th Street Bridge

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Project Challenges

1. Challenges

- Large scope of work
- Abundant information that sometimes conflicted
- Uncertainty about the effectiveness of some approaches

2. Solutions

- Extensive review of approaches
- Interviews from leading practitioners & subject matter experts
- Ranked information based on Philadelphia's specificity
- Present options and describe pros/cons of each approach

The Path Forward for Philadelphia

Next Steps for the Client:

- 1. Share feedback on memo that was distributed regarding our project
- Prepare agencies to read findings & think about adaptation planning
- 3. Use project outcome to develop an adaptation process

Next steps for the Group:

- 1. Final client briefing scheduled: December 9, 2011
 - Mayor's Office of Sustainability staff
 - Select members of other agencies

Project Challenges





Questions?