

Outline of the Presentation

Planning for Sea Level Rise and Resilience in Broward County

Topic 1: Community Resilience Challenges.

- Major impact: Rising sea levels, rainfall, and storm surge.
- Increase in flood severity, infrastructure damage, safety concerns, economic implications, and concerns regarding resident's quality of life.

Topic 2: Implications for Planning and Investments.

- Planning for land use, infrastructure placement, design standards, drainage systems, Level of service, and development strategies.
- Shore management
- Finished floor elevations
- Adequate planning is crucial for managing future conditions, mitigate risks, and fostering long-term resilience.

Topic 3: Flood Risks and Economic Disruptions.

- Rising flood risks and Sea-level rise causing community and economic disruption.
- Saltwater intrusion affecting water supplies and the climate impacts on the environment.

Topic 4: Economic Resilience and Business Analysis.

- Economic justification for resilience investments, demonstrating a strong return on investments, yielding:
 - Community-wide adaption strategies outweigh the costs 2:1
 - Building-level adaption strategies outweigh the costs 4:1
- Emphasize community-wide and building-level adaptation strategies working together.
- Return on investment for both community-wide and building-level adaption strategies. Community-wide and building-level adaptation strategies work together.
 - Community-wide adaptation- a combination of soft and hard engineering investments at the open coast, intracoastal and inland areas.
 - Seawalls
 - Beaches
 - Berms
- Building-level adaptation- a combination of structural improvements to property itself.
 - Elevate
 - Flood proof

Topic 5: Comprehensive Climate Policy and Planning.

- Overview of regional initiatives: a review of regional policies and planning efforts, including the adoption of resilience standards and the revision of flood maps.
- Forward looking planning: empathize the need to account for future conditions, such as rising sea levels and increased rainfall in all planning activities.

Topic 6: Development and implementation of Resilience Planning and Standards.

- Establishing resilience standards, developing a comprehensive resilience standard for infrastructure, tidal barriers, and flood elevations.
- Practical Implementation: introducing of new maps and building codes to account for future flood risks and as well as groundwater levels.

Topic 7: Resilience and Land Use Planning.

- Policy development: Conceptualize policies to ensure development within flood-prone areas and complies to resilience and flood protection standards.
- Assessing plan amendments to address land use management with regards to climate-related risks.

Topic 8: Notable examples and ongoing efforts.

- Demonstrated commitments: Highlighting specific examples of private and municipal entities adopting resilience standards.
- Provide updates on future condition maps and the development of a County-wide Adaption Plan.

Topic 9: County-wide Resilience Plan Components.

- Key Components: includes climate risk assessments, basin-level analyses, infrastructure planning, and redevelopment strategies.
- Collaborative planning platforms: establishing a shared platform for regional resilience planning, encompassing:
 - Community outreach
 - Risk Assessment
 - Economic Modeling
 - Adaptation Plan
 - Online Platforms
- Modeling Resilience Plan Scenarios: utilizing scenarios modeling to explore different resilience planning options.

Topic 10: Need for Upgrading Regional Flood Control Systems.

- The impact on existing infrastructure: Rising sea levels on the current flood control systems.
- Urgent need for funding and construction to improve water management systems and maintain flood control.

Topic 11: Summary and Path Forward

- Overview of evolving flood risks and the need for a coordinated, sustained approach to resilience.



- Future steps for economic and environmental resilience, including further studies, adaptation planning, and stakeholder engagement.

Summary of the presentation:

The presentation primarily focuses on several challenges that may occur due to climate change in Broward County. Specifically, rising sea levels, flood rise, increasing rainfall, and storm surges. It highlights the severe disruptions it causes to communities, the economy, and the environment if immediate action isn't taken, emphasizing the importance for a comprehensive and collaborative approach to resilience planning.

A few key topics included developing new resilience standards for infrastructure and land use planning; updating flood and groundwater maps, and the integrating climate adaptation strategies at both the community and building specific levels. Additionally, the presentation outlines the economic rationale for resilience investments, showcasing the benefits of investing in adaption strategies to protect property values, infrastructure, improve insurance affordability and public safety.

Lastly, the presentation calls for action for upgrading the regional flood control systems to withstand future climate conditions and stresses the importance of ongoing regional collaboration and investment in climate resilience initiatives. Urging the call for immediate action implementing strategies through a combination of policy, planning, and financial investment.

