

A More Resilient St. Johns River = A More Competitive Jacksonville

G







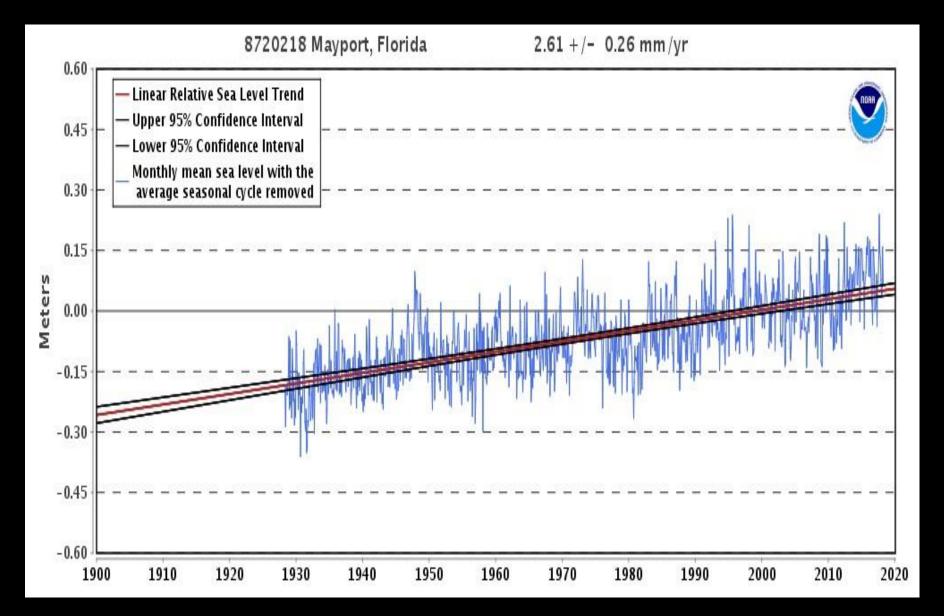
Tampa Bay Times

The city is dangerously flood-prone, making a hit from even a weaker hurricane potentially catastrophic.

The Weather Channel

JACKSONVILLE- In Top 5 -Most Hurricane-Vulnerable Cities on the East Coast

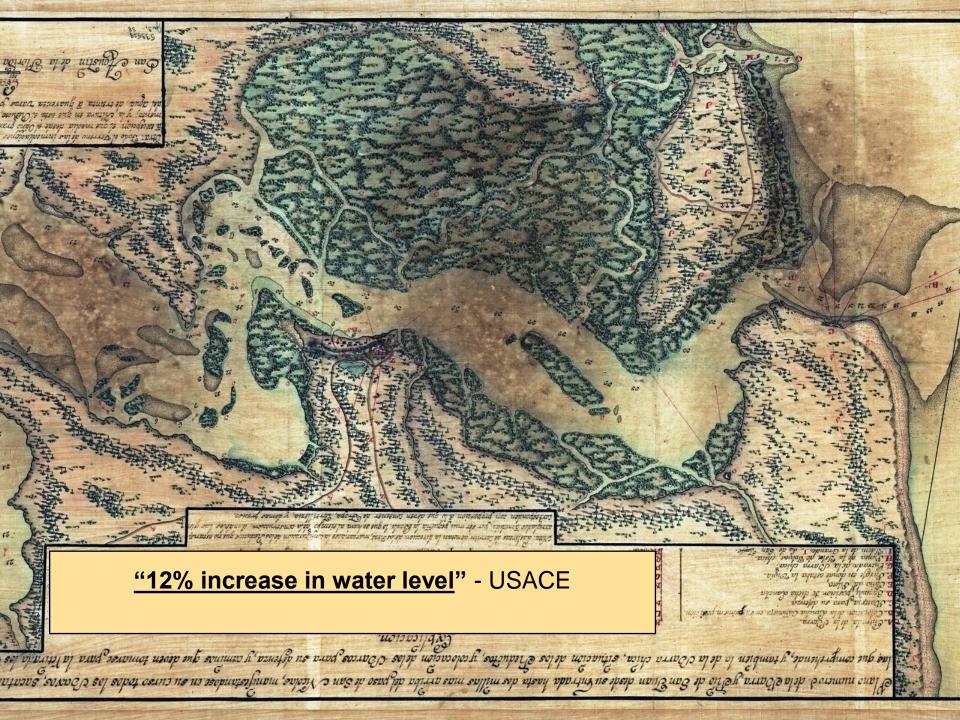






An aerial view of the SL Johns Wett (bop) and Big Fishweir Creek overflowing a day after Nutricase Irona came through on Sept. 12. (W1) DOD//ID000 TM/S-IN/ON/FLE

A century of dredging brought wealth and watery risks





Drainage Under Average Tidal Conditions



Drainage With King Tide / Sea Level Rise

Jacksonville Has to Make a Choice

- 1. We can aggressively take action to make our community more resilient and more competitive.
- We can allow our community and our river to become more vulnerable to the threats of the 21st Century.









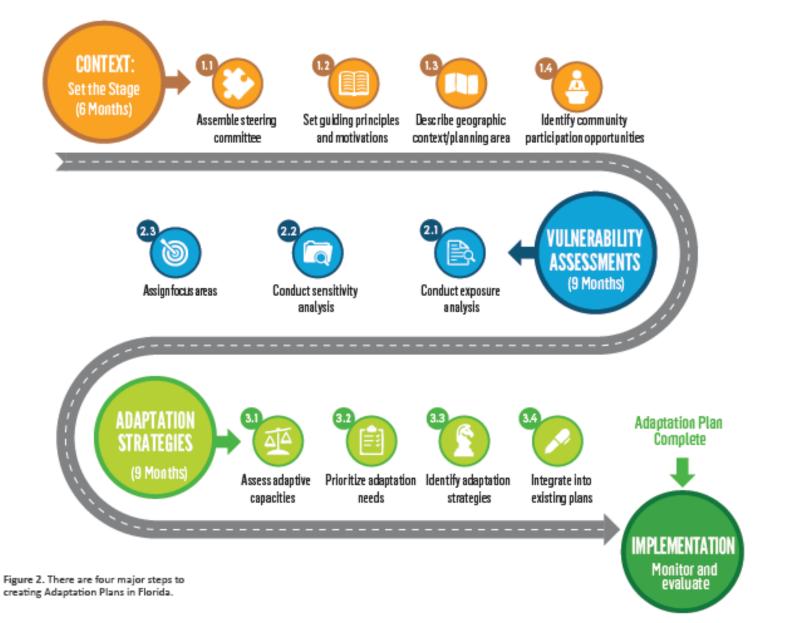
Ten Principles for Building Resilience



1. Understand Vulnerabilities

- 2. Strengthen job and housing opportunities
- 3. Promote equity
- 4. <u>Leverage Community</u> <u>Assets</u>
- 5. Redefine how and where to build
- 6. Build the business case
- 7. Accurately price the cost of inaction
- 8. <u>Design with Natural</u> <u>Systems</u>
- 9. Maximize co-benefits
- 10. Harness innovation and technology

Adaptation Planning: Road to Implementation



Understand Vulnerabilities

COJ Adaptation Action Area

2030 Comp Plan Revision – Recommends strategies and processes to assess the effectiveness of drainage and flooding infrastructure

Jax Waterways Commission formally Requested Special City Council Task Force

APAILONAL FIS **Coastal Resilience Assessment**

TO THE REAL PARTY OF THE PARTY



Other Opportunities

 Norfolk Citywide Coastal Storm Risk Management Study – USACE - Post Hurricane Sandy
100 Resilient Cities Program
Joint Regional Approach

Florida Coastal Management Program

Leverage Community Assets

HN

0

5.

S

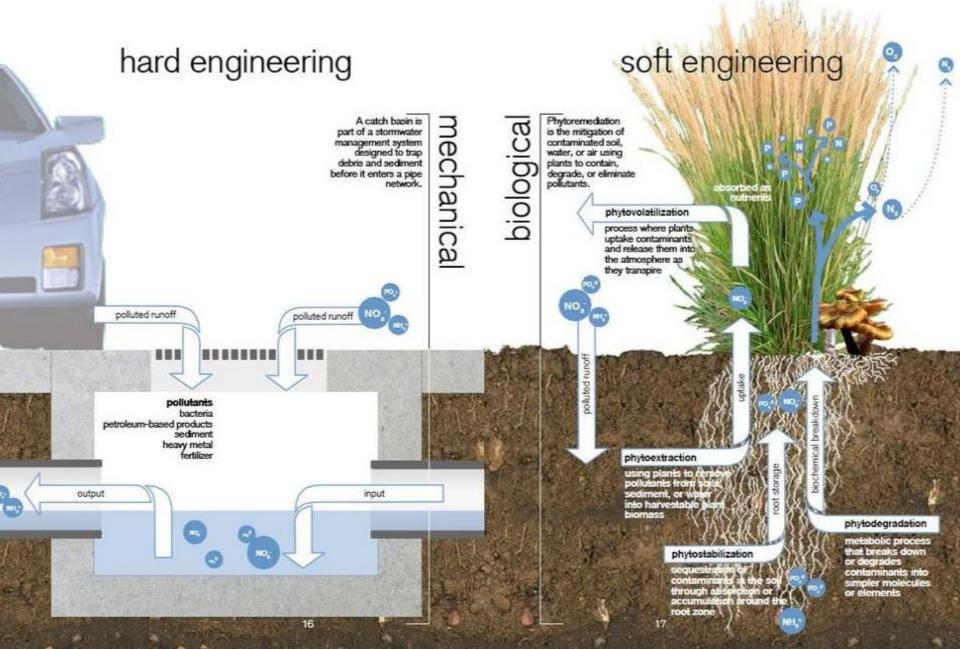
RIVER P

Restores & Develops Wetlands

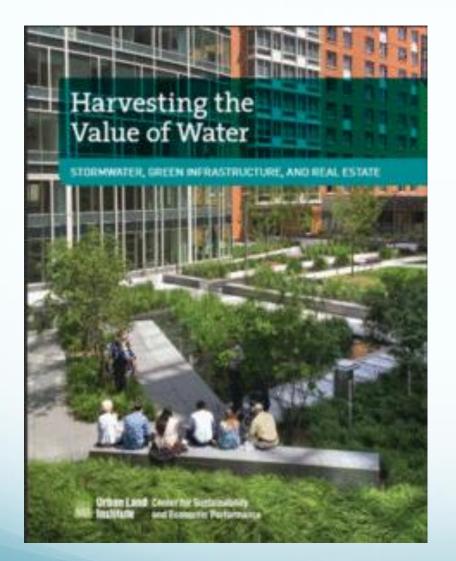
CREEK

- Reduces Flood Risk
- Creates Public Spaces
- Enhances Water Quality

Design with Natural Systems



Design with Natural Systems



New York City evaluated two stormwater management strategies and found that a green infrastructure plan, including green roofs, stream restoration, and bioswales, would save \$1.5 billion compared to a gray infrastructure plan composed of tunnels, pumps, and storm drains.

The green infrastructure plan was projected to offer more long-term environmental, social, and economic benefits to the city.

<u>No Net Loss of Wetlands –</u> <u>Critical to River Health</u>



Goal 4 – To achieve **no** further net loss of the natural functions of the City's remaining wetlands, improve the quality of the City's wetlands resources over the long-term and improve water quality and fish and wildlife values of wetlands.

What Choice Will We Make? S ST. JOHNS **RIVERKEEPER**[®]