



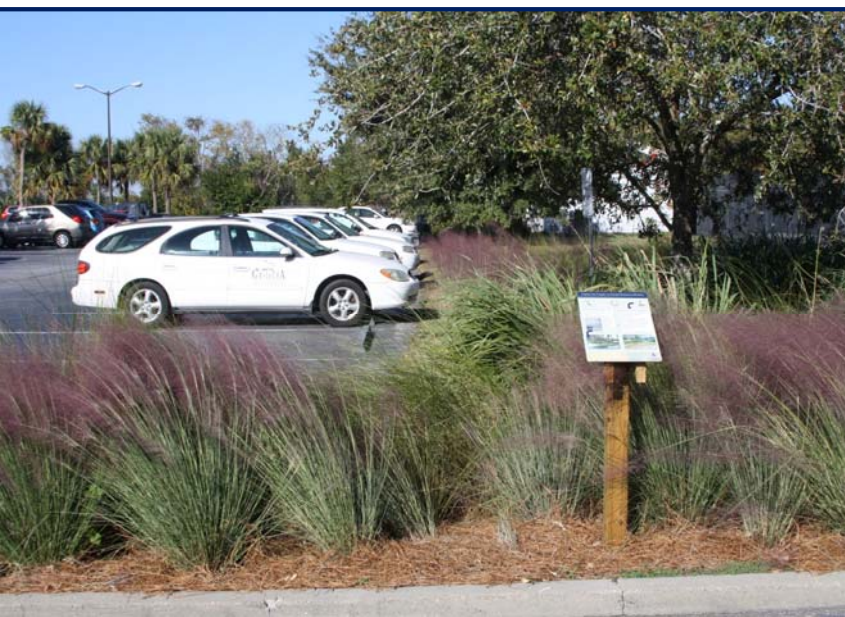
Green Growth Initiatives

Kelly Hill

Green Growth Specialty Area

- **Technical Assistance and Outreach**
- **Collaboration on Green Growth Projects**
- **Training Opportunities**
- **Low Impact Development Demonstration Sites**
- **GCMP Funded Projects**

LID Demonstration Sites



Coastal Low Impact Development (LID) Best Management Practices Inventory *Summary Report*



Prepared for Georgia Department of Natural Resources, Coastal Resources Division

Prepared by Marine Extension and Georgia Sea Grant in partnership with Ecological Planning Group, LLC



Marine Extension and
Georgia Sea Grant
UNIVERSITY OF GEORGIA



March 30, 2018

Enhancing Coastal Resiliency with Green Infrastructure

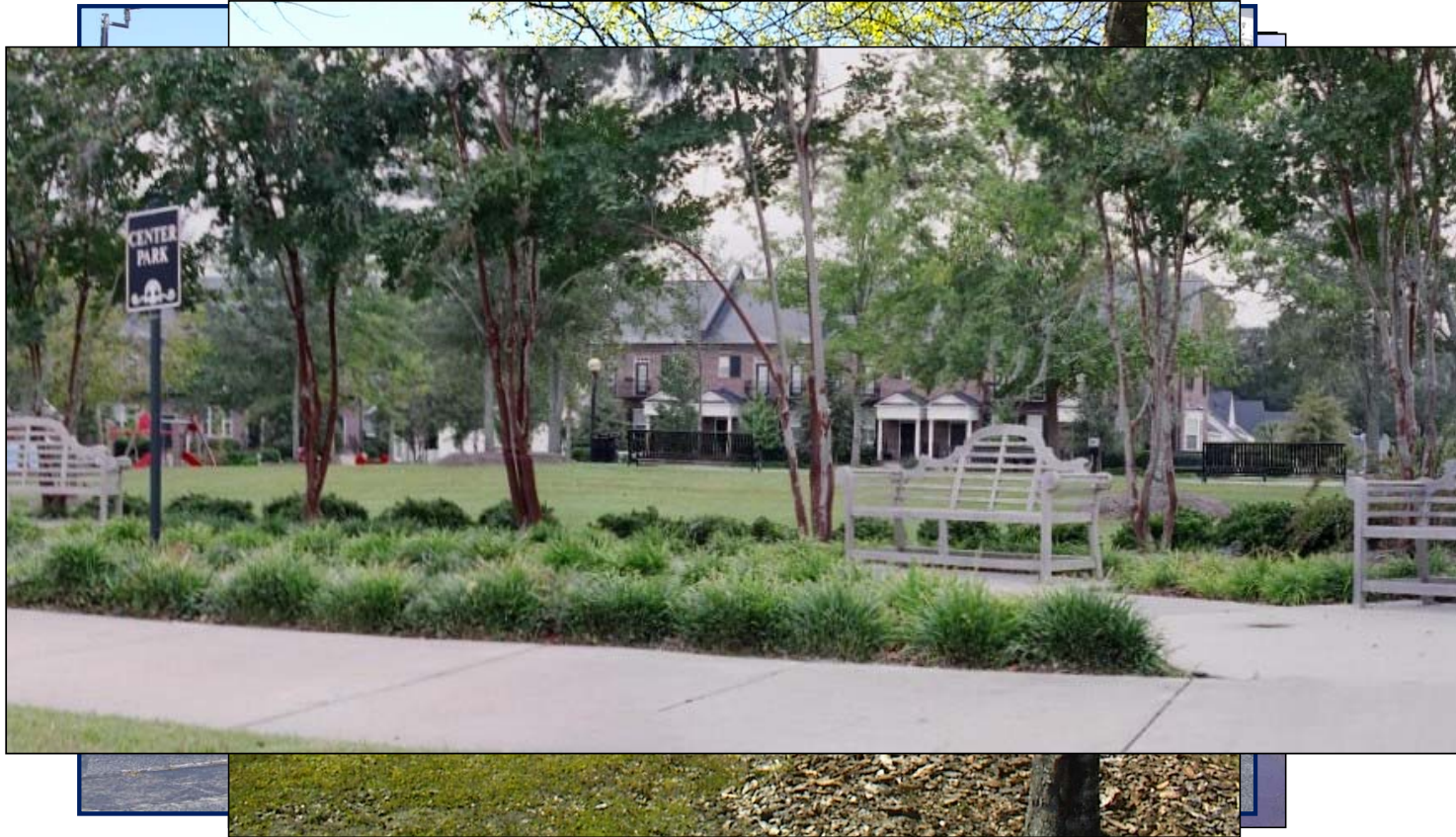
1. Collect Data
2. Model Flooding with and without Green Infrastructure
3. Show Economic Loss
4. Develop Guidance and Model Ordinances
5. Provide Training



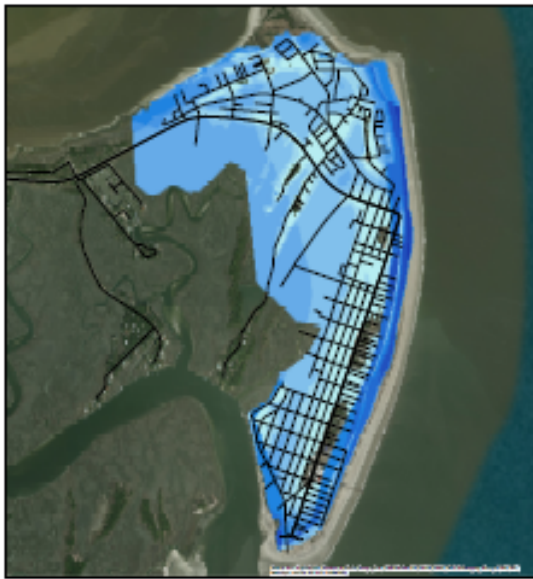
Enhancing Coastal Resiliency with Green Infrastructure

Green Infrastructure: a combination of natural resource protection and storm-water management practices and techniques that **mimic the infiltration capabilities of the natural landscape** such as rain gardens, green roofs, bio-swales, constructed wetlands and permeable pavement. Natural resource protection includes land conservation (focusing on areas with natural infiltration capacity such as wetlands) and coastal sand dune protection and/or restoration.

Green Infrastructure Examples



Draft Flood Depth Grids



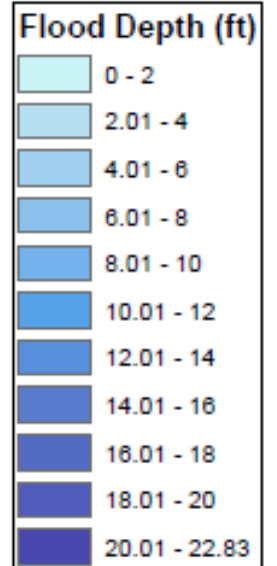
2% Annual Chance Coastal Flood Event
10.65' Stillwater Elevation



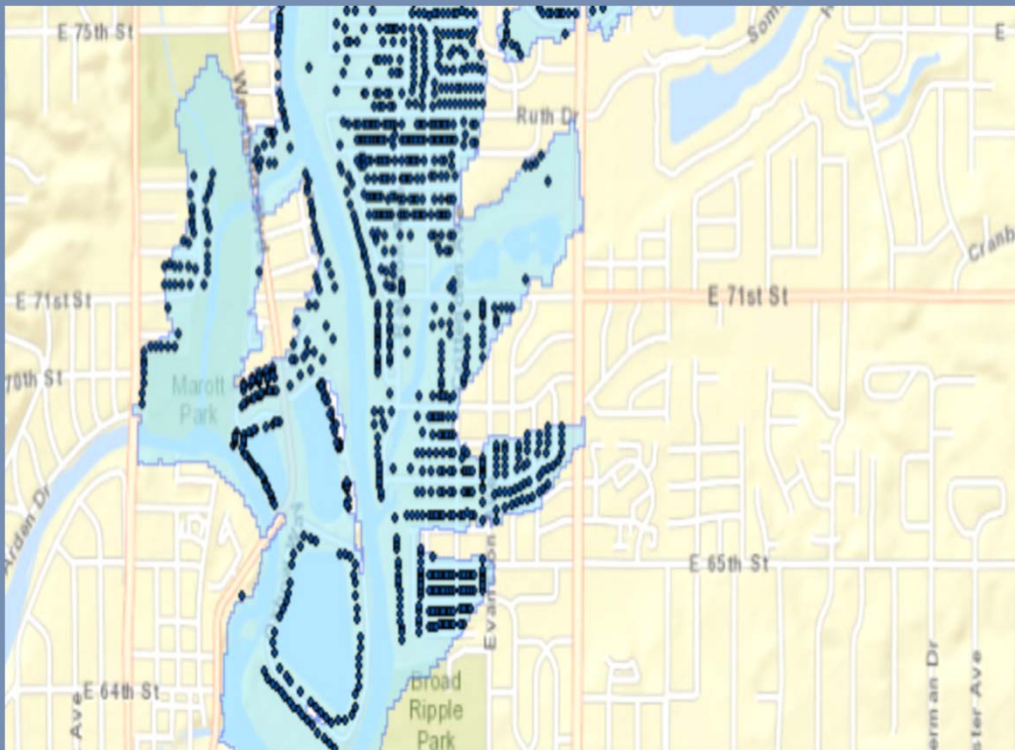
1% Annual Chance Coastal Flood Event
12.1' Stillwater Elevation



0.2% Annual Chance Coastal Flood Event
14.88' Stillwater Elevation



Using Hazus-MH Software



Enhancing Coastal Resiliency with Green Infrastructure

Table 1: Example of Hazus Building Damages

General Occupancy	Number of Buildings Damaged	Total Building Damage (x1000)
Residential	401	\$8,117
Commercial	42	\$592
Industrial	6	\$112
Agricultural	74	\$921
Religious	47	\$110
Government	1	\$0
Education	3	\$13
Total	574	\$9,865

Future Projects

- ❑ Economic Analysis Study
- ❑ Coastal Nonpoint Source Program Implementation

Thank You

Kelly Hill

Green Growth Specialist

Georgia Coastal Management Program

Georgia DNR – Coastal Resources Division

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