

Coastal Smart Growth & Resilience

**New Partners for Smart Growth
February 4, 2012**

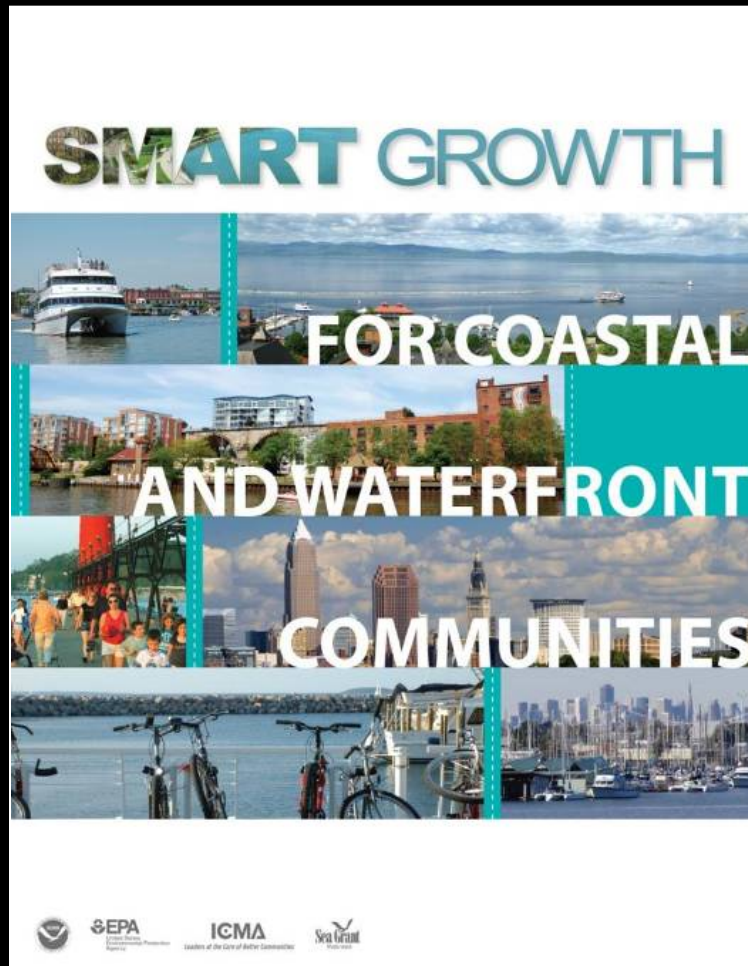
**Sarah van der Schalie
NOAA's Office of Ocean & Coastal Resource Management**

**Session: Smart Growth & Hazards Resilience:
Helping Coastal Communities Stay Safe, Sustainable, & Above the Water**



Photo credit: U.S. EPA

10 Coastal & Waterfront Smart Growth Elements



Element 4:

Create walkable communities with visual and physical access to and along the waterfront for public use



Photo credit: Todd Marsee, MI Sea Grant



Photo credit: George Cathcart



Photo credit: FEMA, Crystal Payton

Intersections

Hazard Mitigation Technique	Coastal Smart Growth Approach
<ul style="list-style-type: none">• Prevent development in floodplains	<ul style="list-style-type: none">• Preserve open space & critical environmental areas
<ul style="list-style-type: none">• Involve stakeholders in planning (mandated)	<ul style="list-style-type: none">• Engage stakeholders in development decisions
<ul style="list-style-type: none">• Prevent infill development in hazardous areas	<ul style="list-style-type: none">• Direct development to existing communities• Encourage waterfront revitalization
<ul style="list-style-type: none">• Elevate buildings	<ul style="list-style-type: none">• Foster a strong sense of place• Capitalize on waterfront's heritage

2011 Coastal & Waterfront Smart Growth & Hazard Mitigation Roundtable



Exchange individual ideas on how coastal communities can develop or redevelop to achieve smart growth goals while minimizing risks from natural hazards, including projected impacts from climate change.

Roundtable Topics

- Avoiding unintended conflicts
- “Win-win” opportunities
- Options for compact, dense communities in harm’s way
- Approaches for integrating smart growth & hazard mitigation practices
- Gaps & needs

Coastal & Riverine Inundation

Participant Ideas

- Coding & organizing participant ideas
- Identified draft categories



Where, How, What to Build

Ideas on opportunities for integration addressing:

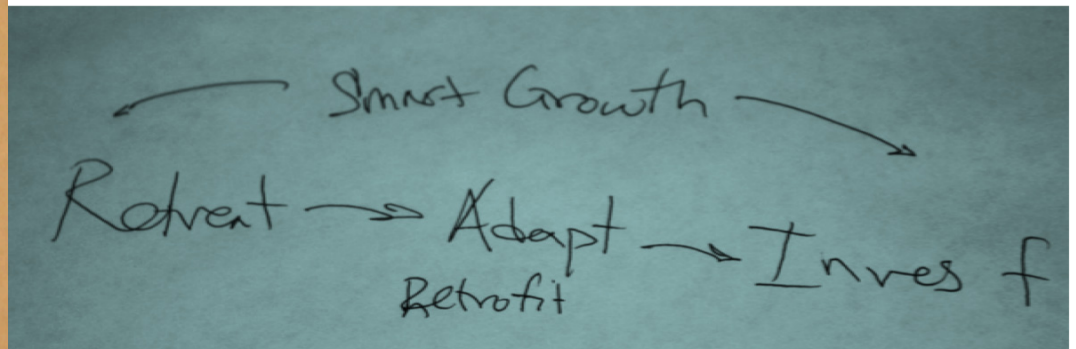
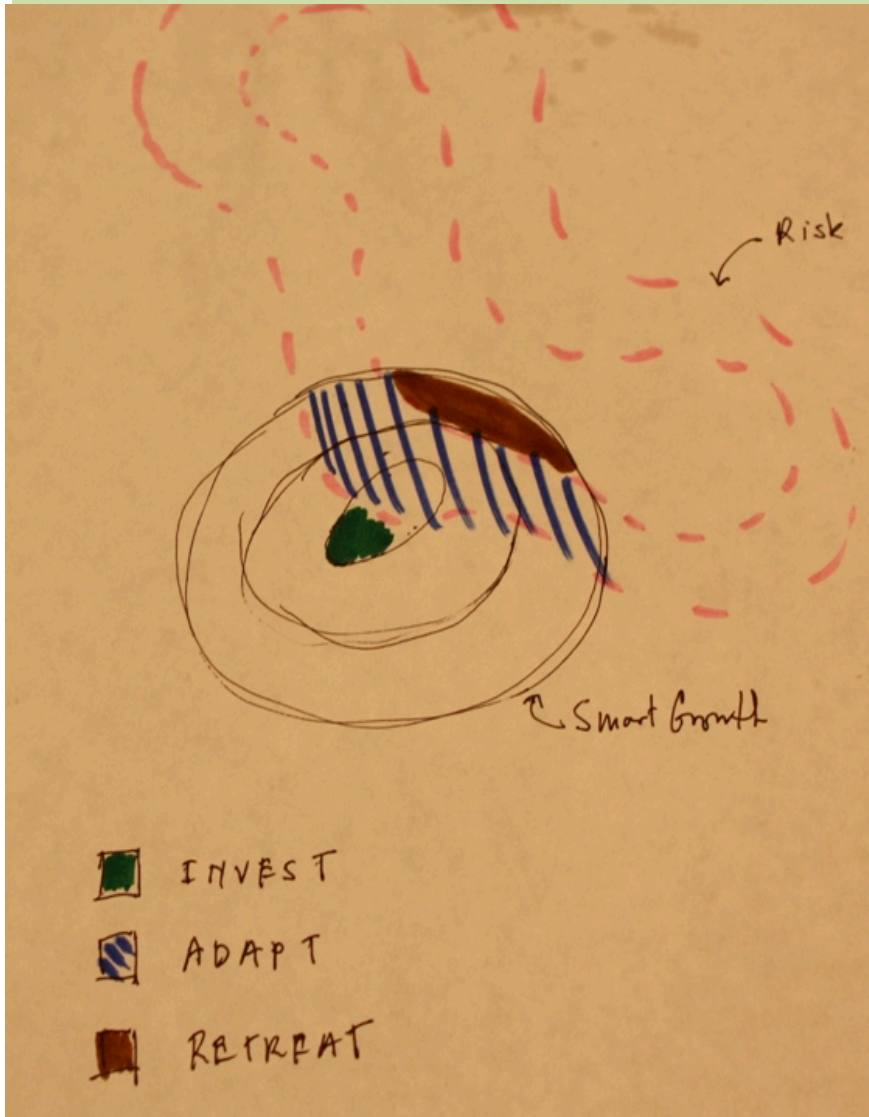
- Where to locate development
- How to build structures
- What uses to build for



Where, How, What to Build

Example ideas:

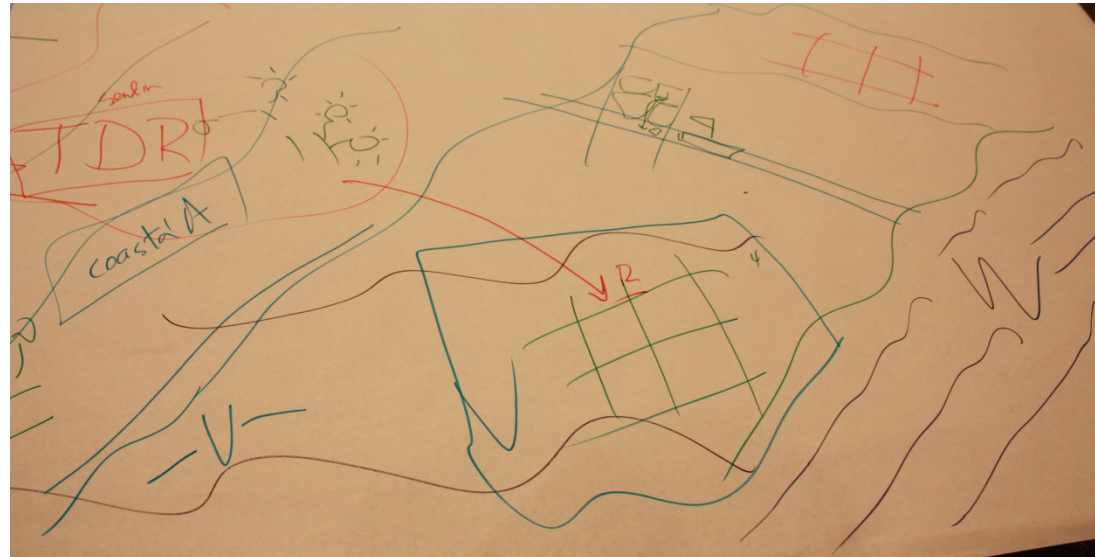
- Use geography & flooding as design principles
- Identify zones of risk
- Create design palettes



Processes

Ideas on opportunities for integration using:

- Planning
- Regulatory
- Funding



Engagement, Education, Communication

Example ideas:

Who to engage	Issues to address	Communication strategy
Hazard mitigation & smart growth practitioners	Hazards risks & vulnerabilities	Create a common language to bridge fields
Developers	Costs/Tradeoffs of design approaches	Use extension agents, hazard mitigation & smart growth practitioners, citizens
Local community members	Economic benefits of no-regrets options	Incorporate hazard mitigation & smart growth into existing education programs
Under-represented and vulnerable populations		Use visualization tools
Decision makers		Share success stories
Residents		
Students		

Gaps & Needs

Example ideas:

- Communication b/w practitioners
- Capacity building
- Hazard extension agents
- Success stories
- Policy analyses
- Financial incentives
- Framework for “risk zones”
- Development of design palettes
- Economic benefits analyses
- Pilot projects



coastal & waterfront

SMARTGROWTH

ELEMENTS

Mix land uses

1

Take advantage of compact design

2

Provide a range of housing choices

3

Create walkable communities

4

Foster distinctive, attractive communities

5

Preserve open space & critical environmental areas

6

Direct development toward existing communities

7

Provide a variety of transportation options

8

Make development decisions predictable & fair



Project partners release report...

Smart Growth principles compared

RESOURCES

TOOLS

CASE STUDIES

PROJECT PARTNERS RELEASE REPORT

In August, NOAA, EPA, ICMA and RI Sea Grant are releasing a report overviewing Coastal and Waterfront Smart Growth approaches and implementation techniques described on this website.

DEVELOPMENT at the WATER'S EDGE

Coastal and waterfront communities have a distinctive sense of place created by their history, as well as by their characteristic sights, sounds, and smells. On the coast, the bellow of tugboats and the salty taste of ocean air; along lakes and rivers, the sound of the water and the feel of brisk waterborne winds-all come together to shape our sense of

COASTAL and WATERFRONT CHALLENGES and OPPORTUNITIES

Bounded by water, coastal and waterfront communities are challenged to make the best use of limited land while protecting critical natural resources from the potentially damaging effects of growth. These communities must consider a common set of

SMART GROWTH APPROACHES

How can smart growth strategies help coastal and waterfront communities manage growth and development while balancing environmental, economic, and quality of life issues? How can communities on the water adapt smart growth strategies to fit their unique character? This website will help communities answer these questions. If you have an interest in development at the water's edge, more >>

<http://coastalsmartgrowth.noaa.gov>



coastal & waterfront SMARTGROWTH

Coastal and Waterfront SMARTGROWTH

GETTING STARTED

RESOURCES

CASE STUDIES

Mix land uses

Take advantage of compact design

Provide a range of housing choices

Create walkable communities

Foster distinctive, attractive communities

Preserve open space & critical environmental areas

Direct development toward existing communities

Provide a variety of transportation options

Make development decisions predictable & fair

Encourage community & stakeholder collaboration

» [Coastal Smart Growth Home: Getting Started](#)

How to Get Started

The following resources are available to help coastal and waterfront communities get started in implementing the policies, tools, and techniques found in the tables below. The resources listed are not meant to be a comprehensive survey, but instead offer several examples for implementing these smart growth approaches.

Check back for updates!

Element 7

ELEMENT 7:

Strengthen and direct development toward existing communities and encourage waterfront revitalization.

Key Action Options	Policies, Tools, and Techniques for Implementation
Promote community-based waterfront revitalization efforts	<ul style="list-style-type: none"> Conduct community vulnerability assessments to ensure redevelopment is directed to appropriate areas Create waterfront master plans Use special area management plans Use harbor management plans Employ tax increment financing Create business improvement districts
Promote infill development by preserving, upgrading, and reusing existing properties	<ul style="list-style-type: none"> Fix current infrastructure (fix it first policies)

Thank You

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