

# Integrating Sustainability into Community Fabric

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# Mission

A vertical banner on the left contains the text "A DIFFERENCE" in white, uppercase letters. To its right are four horizontal panels with different backgrounds and text: "Do Right." (pebbles), "Learn." (dark soil), "Serve." (blue water), and "Grow." (green grass). To the right of these panels is the Melaver, Inc. logo, which consists of a green stylized 'M' icon followed by the text "melaver, inc." in a lowercase, sans-serif font.

# Sustainability's Broad Reach



# Melaver's Sustainable Portfolio



# FOOD

1. In the United States, there are roughly 90,000 chemical compounds, many of which are part of our food chain, most of which have never been tested. In addition, a piece of food travels:

G. 1,000 miles

H. 2,000 miles

I. 5,000 miles

J. 10,000 miles

# HEALTH

2. What percentage of the adult US population is obese?

M. 10%

N. 20%

O. Over 30%

P. 50%

# WASTE

3. Every single American throws how much away each year?
- K. 1,000 pounds
  - L. 2,000 pounds
  - M. 5,000 pounds
  - N. 10,000 pounds

# CARS

4. There are 800 million cars on the road today, 1 for every 8 people. By 2040, the estimates are:

W. 1 billion cars

X. 2 billion cars

Y. 3.25 billion cars

Z. 5 billion cars

# LAND

5. We add 90 million people to this planet per year. How much land does that consume annually?

P. 500,000 acres

Q. 1 million acres

R. 10 million acres

S. 25 million acres

# ENERGY

6. We consume 85 million barrels of oil per day today. In 20 years, that figure is expected to increase:
- E. 20% (100 million barrels)
  - F. 30%
  - G. 40%
  - H. Over 50%

# WATER

7. Today, 1/3 of the world's water supplies have salt water pollution problems. By 2025, what percentage of the global population will be facing chronic water shortages:
- F. 20%
  - G. 30%
  - H. 40%
  - I. 50%

# GREENHOUSE GAS

8. Today, we are emitting 385 parts per million CO<sub>2</sub> into the atmosphere, and that figure is increasing by 2 ppm annually. By 2050, scientists project we will be emitting:

Q. 350 ppm

R. 450 ppm

S. 500 ppm

T. 600 ppm

# ANSWER SHEET

- 1. H** Food: 2,000 miles
- 2. O** Health: Over 30% obesity
- 3. L** Waste: 2,000 lbs/person annually (6lbs a day)
- 4. Y** Cars: 3.25 billion cars by 2040
  
- 5. S** Land: 25 million acres consumed annually
- 6. H** Energy: Consumption to increase 50% in 20 years.
- 7. I** Water: By 2025, 50% chronic water shortage
- 8. T** Greenhouse Gas: By 2050, 600 ppm

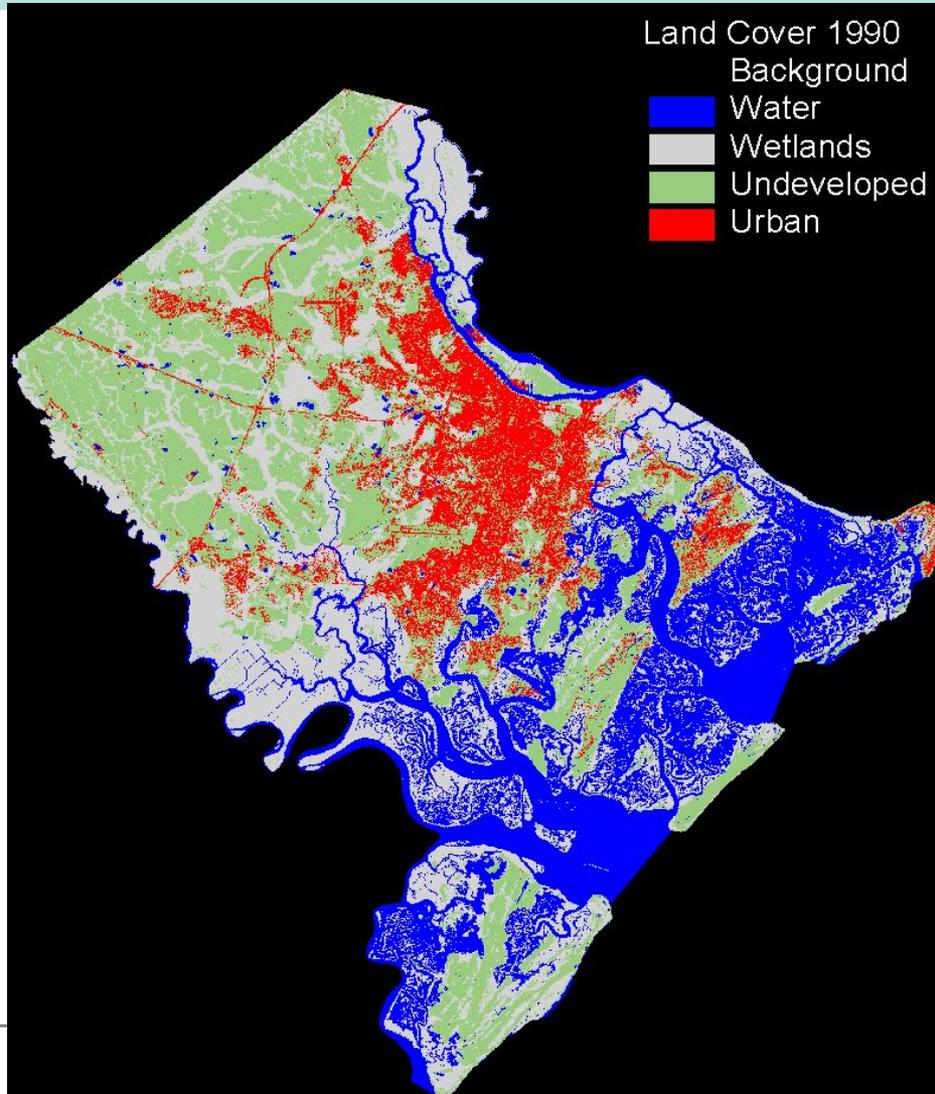
# What about us on the GA coast?



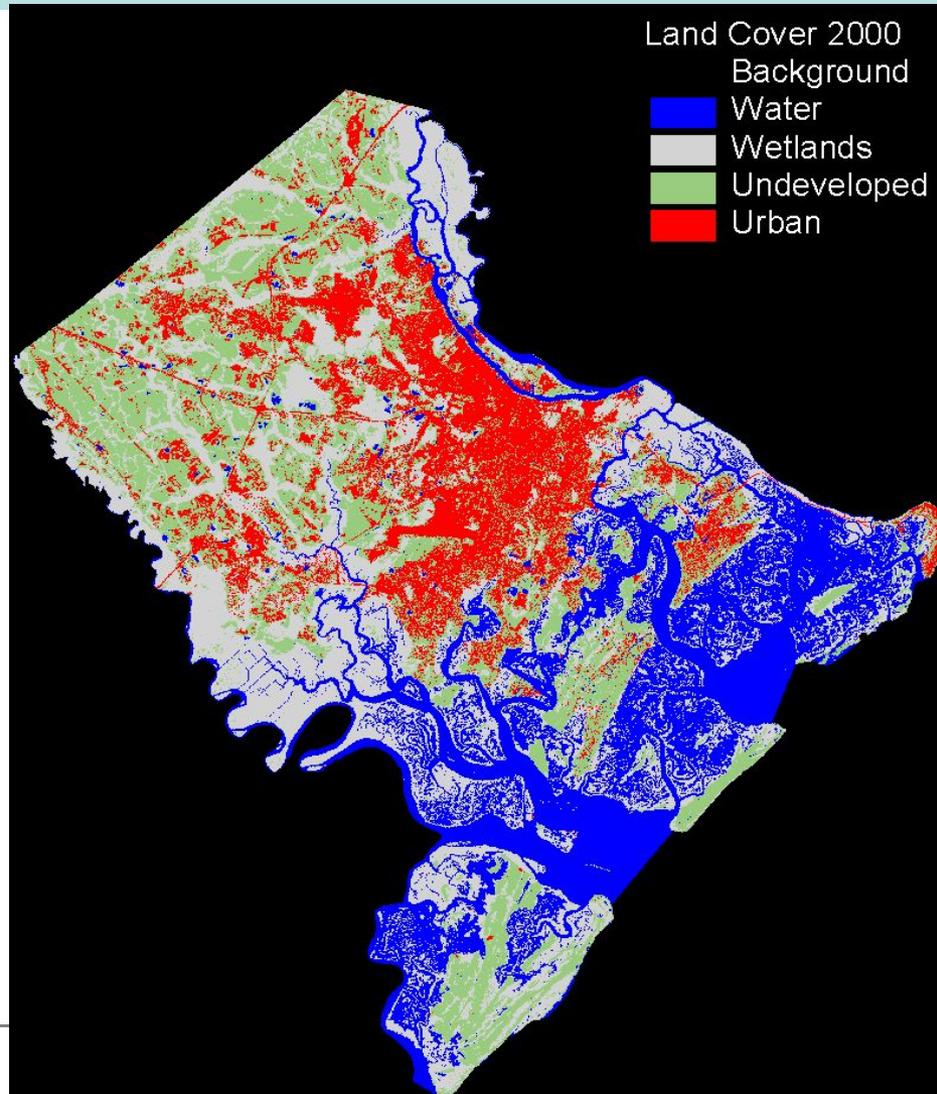
Population along the GA coast:

- Grew almost 20% from 1990-2000
- Is expected to double to over 1,000,000 people by 2030.

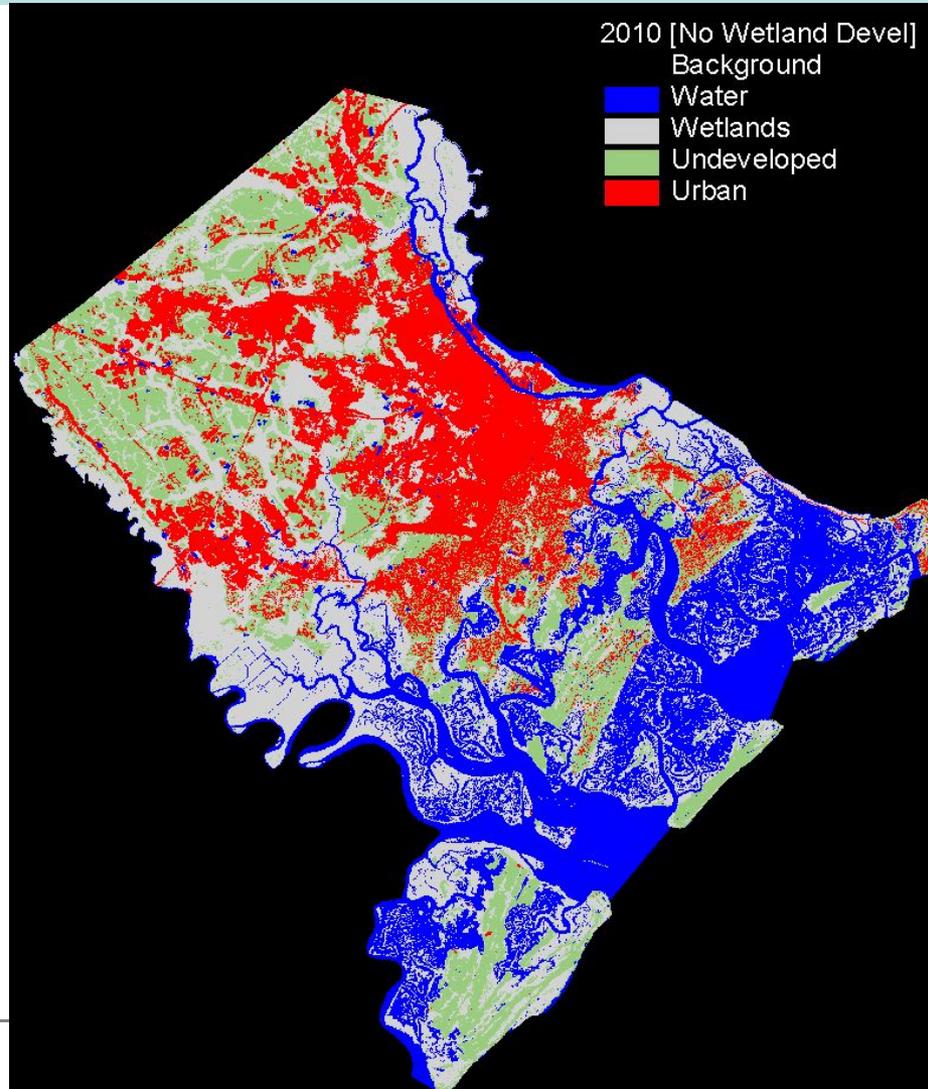
# Coastal Growth Trends



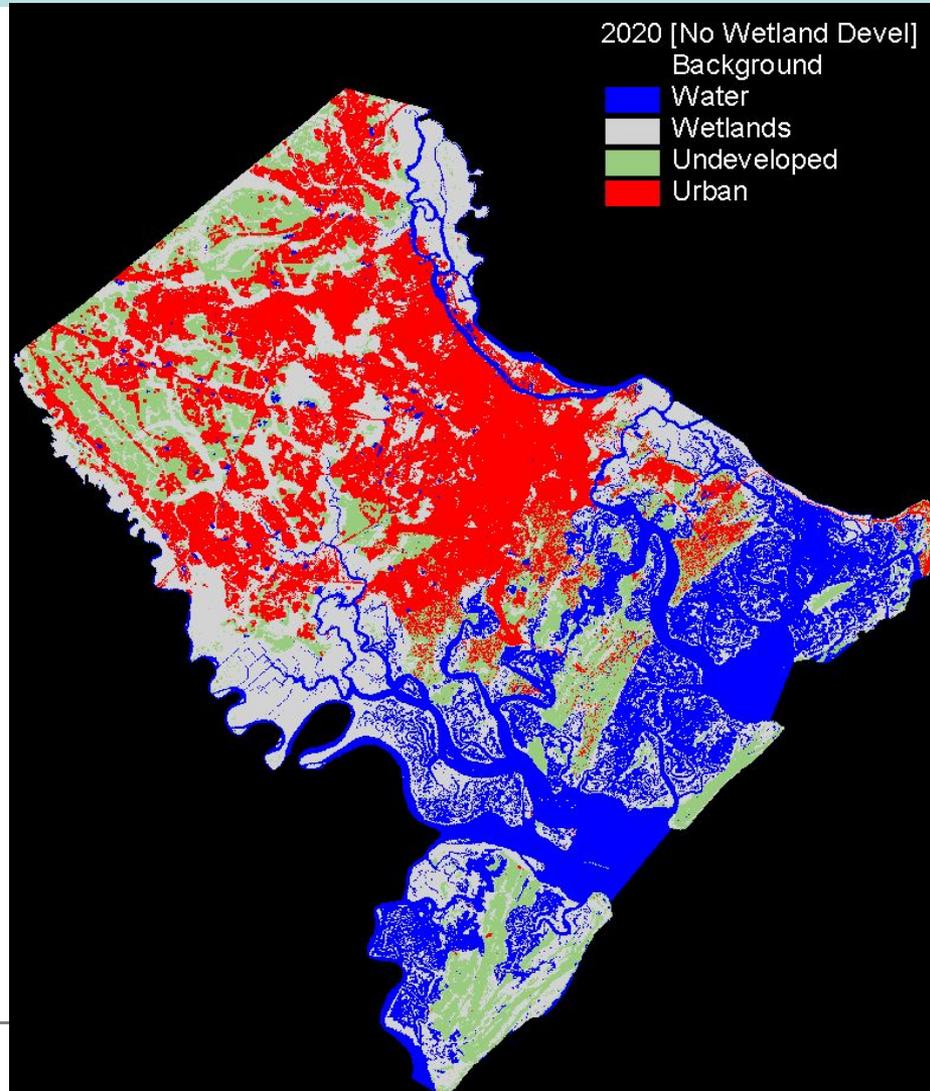
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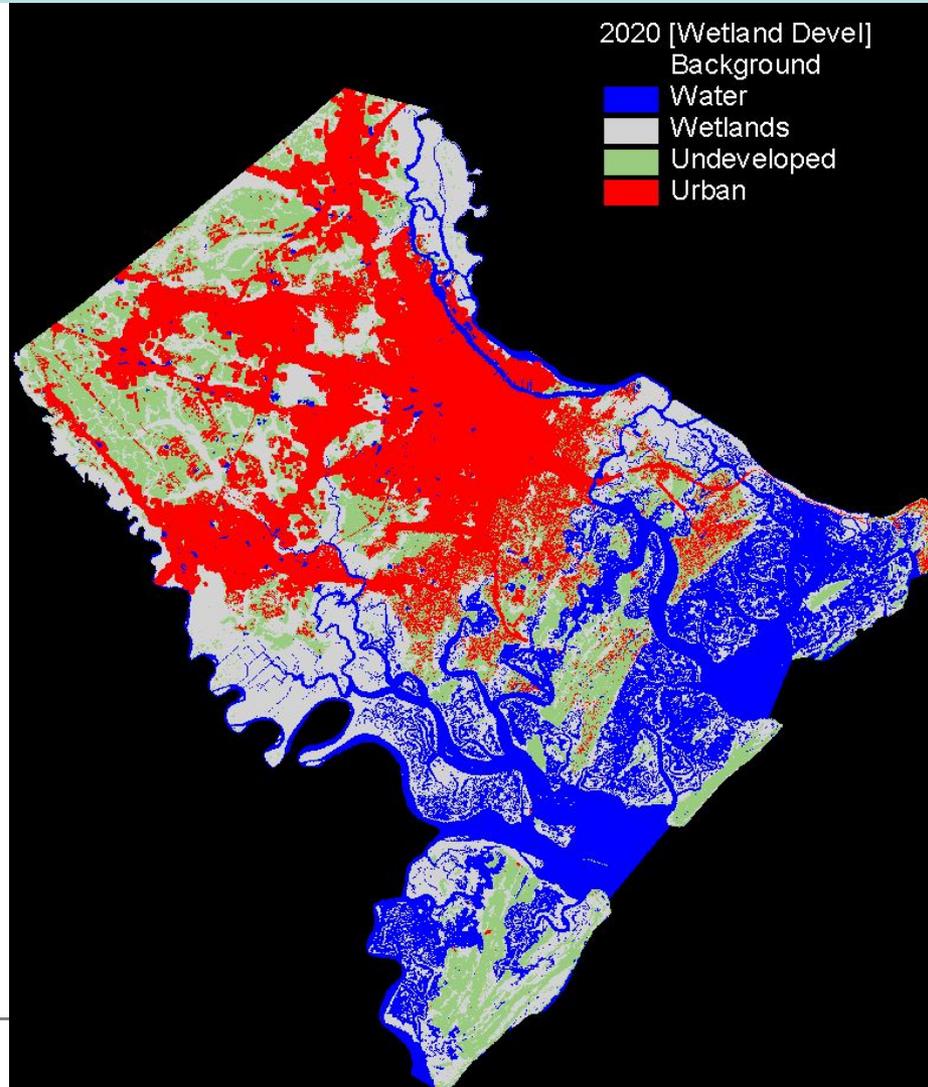
# Coastal Growth Trends



# Coastal Growth Trends



# Coastal Growth Trends



# So...What is the Next Big Thing????

What opportunities lie ahead in the next 10 years?

# Building Sustainable!

It's coming - whether by:

Outside factors:

Government regulation

Consumer demand

Internal factors

Tax incentives

Market differentiation

If it can be done in affordable housing, it can be done anywhere!



## LEED for Neighborhood Development

Offers:

- Pedestrian oriented (wide sidewalks, connect streets, traffic calming, ample greenspace)
- High density, mixed use
- Infill redevelopment
- Community gardens, parks and recreation areas

Not:  
Gated, cul de sacs,  
single use, greenfields



Green buildings  
30% more efficient than code  
30% less water used  
Healthy indoor air quality  
Locally produced materials

Dual flush toilets, water efficient showers and sinks  
Cellulose insulation  
Efficient windows  
Low VOC paints/sealants/adhesives/carpets  
Sealed building envelope

# How Much Does it Cost?

LEED Fees (for both Neighborhood Development and LEED for Homes) = 0.4%

Construction costs – done on a budget for tax credit affordable housing (no granite countertops here!)

# Summary

Green planning and design is coming, whether you choose to do it, are incented to do it, or are required to do it.

If we want to save the inherent value our coastal natural habitats offer us, we've got to develop more responsibly.

The good news – it doesn't have to cost more...

# So...What Can We Do About It????

Change a bulb:

- 1 – 100 w bulb to a 27 w bulb = 107kwh = \$10
- 100 bulbs changed = 10,658 kwh = \$1,000 – 7 tons GHG
- Every household in Savannah – 4,800,000 kwh = \$475,000 – 3,250 tons GHG
- Every household in US – 10.6 billion kwh = \$1 billion – 7.2 million tons GHG

# So...What Can We Do About It????

Change a plumbing fixture: Install dual flush toilet (0.8/1.6 gpf), 0.5 gpm faucet aerator, 1.5 gpm showerhead

- 1 household – saves 20,000 gallons/year
- 100 households –saves 2,000,000 gallons/year
- Each household in Savannah – saves 1 billion gallons/year
- Each household in the US – saves 2 trillion gallons/year
- [www.rehydrateUS.org](http://www.rehydrateUS.org) – coming soon!

“So-called ‘global warming’ is just a secret ploy by wacko treehuggers to make America energy independent, clean our air and water, improve the fuel efficiency of our vehicles, kick-start 21st century industries, and make our cities safer and more livable. Don’t let them get away with it!”

--- Chip Giller, the founder of Grist.org