

The background image shows a coastal cityscape. In the foreground, there are tall, green dune grasses. Behind them is a sandy beach with a few buildings. In the mid-ground, there are several modern, multi-story buildings with glass facades. The sky is blue with some light clouds. The overall scene is bright and sunny.

RESILIENCE AND ADAPTION STRATEGIES FOR NAPLES AND COLLIER COUNTY:

PREPARING FOR CLIMATE CHANGE AND
RISING SEA LEVELS

SOME BACKGROUND AND CONTEXT

- NATURAL ENVIRONMENT KEY INFLUENCE ON NAPLES AND COLLIER COUNTY
- QUALITY OF LIFE.....ECONOMY....DEVELOPMENT PATTERNS
- REASON WHY AREA WAS FIRST SETTLED/WHY PEOPLE CONTINUE TO COME HERE TO LIVE AND VISIT
- WATER IS KEY ELEMENT FOR SUSTAINING OUR NATURAL ENVIRONMENT -- WATER SUPPLY, WATER QUALITY, STORMWATER MANAGEMENT TO REDUCE FLOOD RISK, WASTEWATER TREATMENT

THREATS AND CHALLENGES ARE ONLY INCREASING

- MORE FREQUENT AND INTENSIVE STORM EVENTS
- RISING SEA LEVELS/WARMING OCEAN TEMPERATURES
- GROWING POPULATION AND DEVELOPMENT PRESSURES
- OTHER MARKERS: MORE FREQUENT FLOODING EVENTS, RED TIDE, HARMFUL ALGAE BLOOM OUTBREAKS, SHRINKING FISHERIES, DISAPPEARING SEA GRASS, AND DETERIORATING WATER QUALITY IN ALL OUR WATER BODIES

RESILIENCY PLANNING

- AS A RESULT, GOVERNMENT AT ALL LEVELS, NGOS, PRIVATE BUSINESSES AND RESIDENTS HAVE HAD TO BEGIN TO THINK ABOUT HOW TO PLAN FOR A DIFFERENT FUTURE
- HOW CAN WE RESPOND TO OUR CHANGING ENVIRONMENT, MAINTAIN (AND RESTORE) ITS QUALITY AND BEAUTY, AND BE ABLE TO LIVE AND WORK IN PLACES LIKE SW FLORIDA OVER THE LONG TERM?

WHAT IS RESILIENCY PLANNING?

- *RESILIENCY PLANNING* IS ABOUT ADAPTING TO CHANGING ENVIRONMENTAL CONDITIONS
- A NECESSARY BUT REACTIVE APPROACH BY DEFINITION
- HOW DO WE ACCOMPLISH THAT BUT ALSO REMAIN FOCUSED ON *ENVIRONMENTAL PROTECTION* – ADDRESSING THE ACTIONS AND CONDITIONS THAT ARE CREATING OUR PROBLEMS IN THE FIRST PLACE

EFFORTS UNDERWAY

- INCREASED HURRICANE ACTIVITY IN FLORIDA SPURRED ACTION AT STATE LEVEL – RESILIENCY GRANT PROGRAM FOR PLANNING AND IMPLEMENTATION
- CITY OF NAPLES CLIMATE VULNERABILITY ASSESSMENT AND ADAPTATION PLAN
- HURRICANE IAN CATALYST FOR NEW URGENCY IN SW FLORIDA
- USACE COASTAL STORM RISK MANAGEMENT FEASIBILITY STUDY

QUESTIONS FOR ALL OF US

- WHAT CAN WE DO TO MAKE A DIFFERENCE?/AT WHAT COST AND WHO PAYS?
- FIGHT OR FLIGHT/PROTECT THE COASTLINE OR ABANDON IT?
- IF WE CHOOSE TO PROTECT, THEN HOW?
 - NATURAL INFRASTRUCTURE (DUNES, MANGROVES, ETC)
 - PHYSICAL INFRASTRUCTURE (SEAWALLS, SEAGATES, JETTIES, ETC)
 - LAND USE REGULATIONS AND ELEVATION

TODAY'S PROGRAM

- **MICHAEL SAVARESE** -- FGCU DISTINGUISHED PROFESSOR AND CO-CREATOR OF THE ACUNE MODEL, A NEW TOOL FOR RESILIENCE PLANNING
- **NATALIE HARDMAN** – NATURAL RESOURCES MANAGER, CITY OF NAPLES – PROJECT LEADER FOR OUR CITY'S CURRENT RESILIENCE AND ADAPTATION PLANNING STUDY
- **JENNIFER JURADO** – CRO FOR BROWARD COUNTY – CURRENT AND PAST ENGAGEMENT IN RESILIENCY PLANNING EFFORTS ON FLORIDA'S EAST COAST