



**INFRASTRUCTURE AND  
GROWTH LEADERSHIP  
PILLAR ADVISORY COMMITTEE**

Meeting #3

May 9, 2017 1:00-2:30pm EST

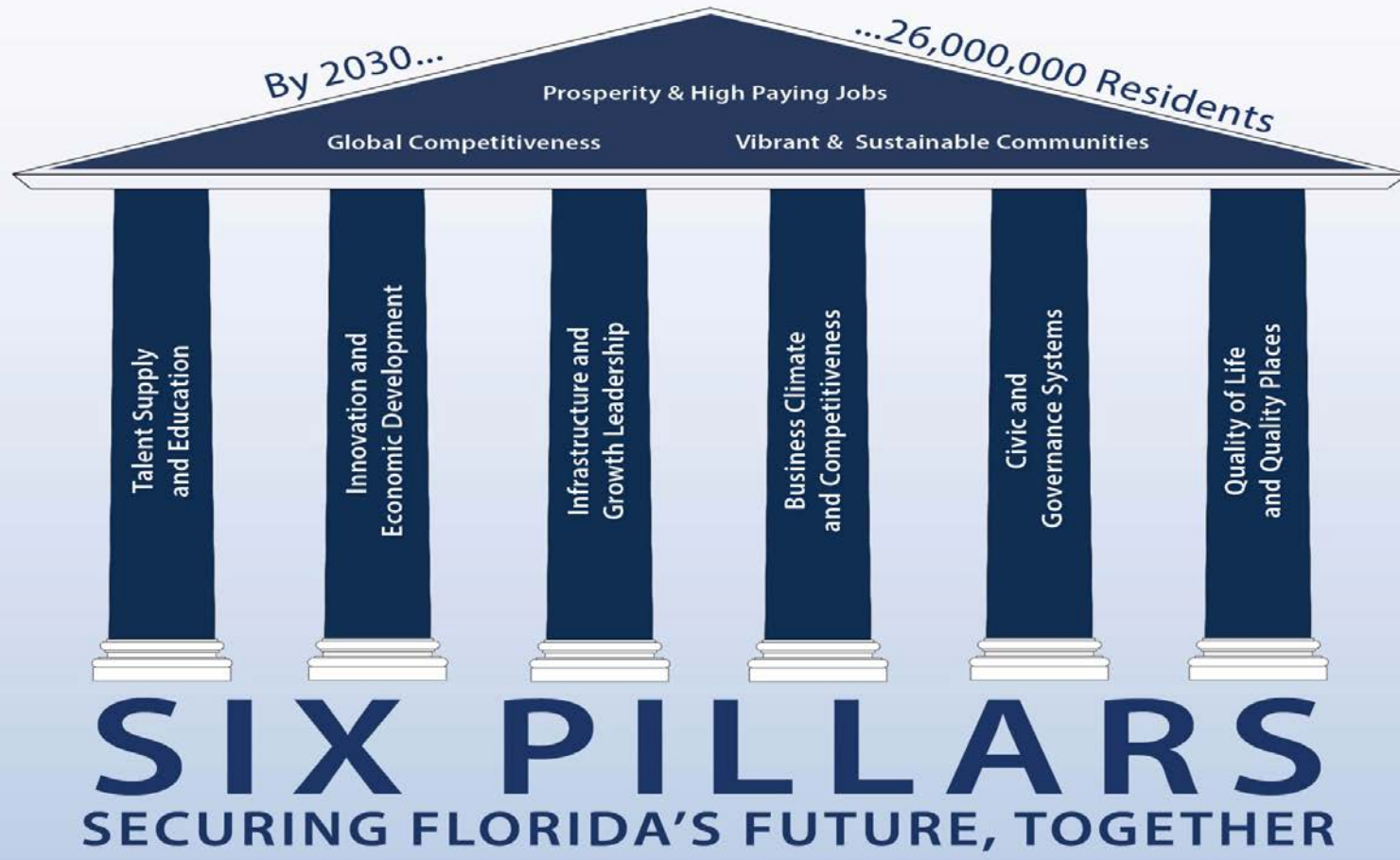
# Housekeeping

- » **Please do not place your line on hold**
  
- » **Moderated conference lines**
  
- » **To raise questions and participate**
  - » Through the conference call:
    - » Listen for operator cues
    - » Press \* 1 on your phone when prompted
    - » All lines will be open during the Q&A/Discussion sections
  - » Through the webinar:
    - » You can type in a question directly through the webinar under the questions section.

\* 1

# Today's Agenda

- » **Introductions**
- » What have we learned so far?
- » Where do we want to go?
- » How do we get there?
- » Next steps



“We must plan better for the next 6 million Floridians than we did for the last 6 million”

Florida Chamber Foundation Trustees

Florida 2030  
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Advisory  
Committee

Caucus Members

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Caucus Members

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# Committee Work Plan

Date	Activity
March 22-23	Kickoff meeting
April 11	Meeting #2 via webconference
April 18	Joint call of all committees
May 9	Meeting #3 via webconference
June 14-15, Orlando	In person meeting to begin identifying 2030 targets and strategies
July-August	Additional webconferences as needed to refine 2030 targets and strategies
September 27-29, Orlando	Future of Florida Forum– in person meeting to review draft Pillar research report
Early 2018	Rollout of Florida 2030 report

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# Infrastructure & Growth Pillar - Outline

## 1. Land Use & Design



## 5. Communications



## 2. Transportation & Logistics



## 6. Waste Management



## 3. Water



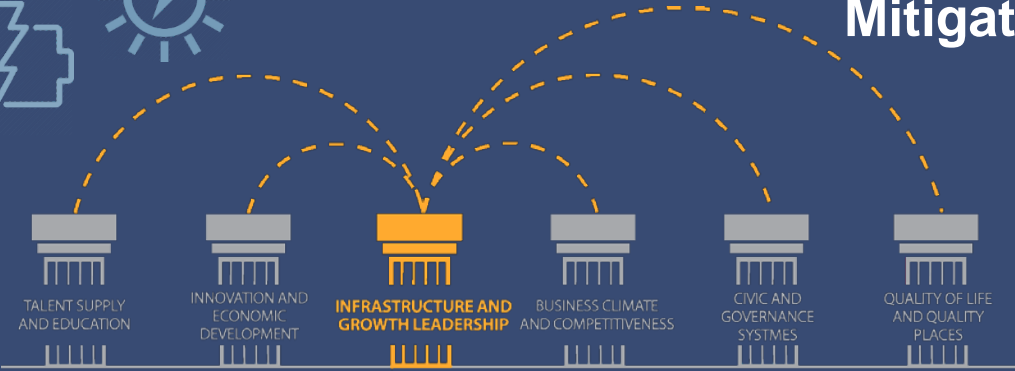
## 7. Environmental Issues



## 4. Energy



## 8. Risk Preparedness & Mitigation



*Team collaborations between all pillars*



# Land Use & Design Outline



## » Key Focus Areas:

» Communities need to have a long-term plans for infrastructure and growth to be able to enhance the **quality of life** while adding additional residents and businesses

» *What if there is disconnect between business and people?*

» *What if Florida grows as a destination for people versus a destination for business – How are the scenarios different and in regards to land use & design*

» Protecting private **property rights**

» Protecting **conservation lands**

» *New development and re-development in Florida*

» *Ex. Babcock Ranch, West Bay, The District*



# Transportation & Logistics Outline



## » Key Focus Areas:

» Investments in infrastructure to meet **future growth needs**

- » *Rail, roads, airports, seaports, spaceports*
- » *Preserve and expand ports capacities*

» Adoption of **smart technology**, incentivize businesses and develop connected infrastructure

» Support **autonomous** vehicles and processes

» Support **multimodal** movement of freight and goods

» Enhance the role of **transit** as moving within a community and regional high-speed transit connections

- » *Ex. Brightline (All Aboard Florida), TriRail*



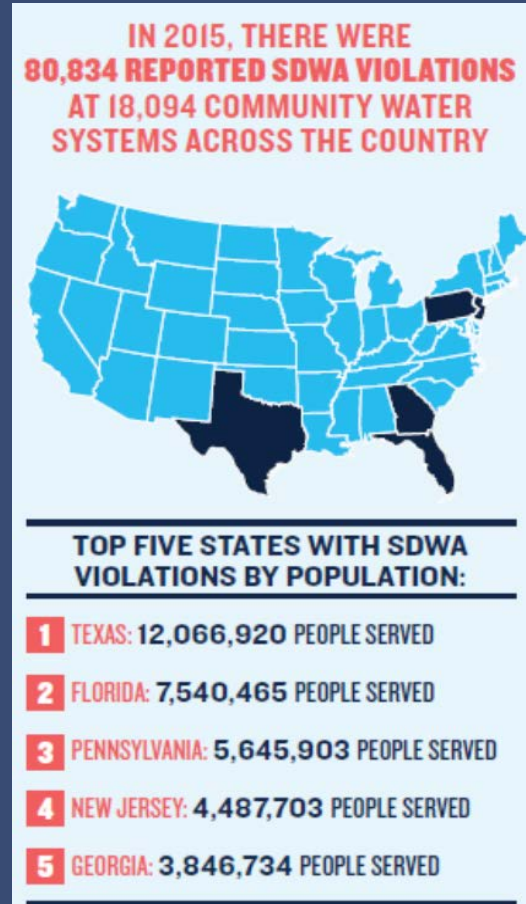
Source: Florida Chamber Economic Development Task Force Report

# Water Outline



## » Key Focus Areas:

- » Ensure access to adequate clean **potable water**
  - » *Diversify water sources to maintain reliable supply (i.e. traditional sources and reclaimed water, brackish groundwater, sea water etc.)*
  - » *Advocate for potable water infrastructure that consistently delivers clean water*
- » Maintain **wastewater** infrastructure and minimize health and environmental/economic impacts from sanitary sewer overflows and unpermitted discharges.
- » Minimize **stormwater** impacts on the state's infrastructure, businesses and communities from typical flooding as well as catastrophic and nuisance tidal flooding.



Source: National Resource Defense Council  
Threats on Tap. May 2017.

Note SDWA = Safe Drinking Water Act

# Energy Outline

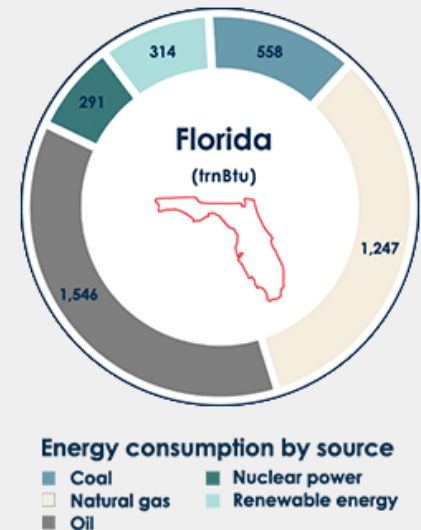


## » Key Focus Areas:

- » Develop **long-term, comprehensive state energy policy** that balances the needs for cost-effective, reliable and clean energy
- » **Diversify electric generation** mix with clean sources of supply,
  - » *energy efficiency, solar, biomass, nuclear*
- » Enhance **energy transmission & distribution systems**
  - » *smart grid, integration of renewables, new pipelines*
- » Reduce Florida's **dependence on petroleum** by expanding use of alternative transportation fuels
  - » *LNG, CNG, electricity*
- » Improve the **resiliency of Florida's energy resources** to disruption
  - » *e.g. disaster, supply constraints*

## WHAT ARE YOUR STATE'S MAIN ENERGY SOURCES?

Explore how states' energy consumption sources change over time through an interactive data tool.



Source: US Energy Information Administration

# Communications Outline



## » Key Focus Areas:

- » **Modernize** telecommunications infrastructure (5G, 6G, Fiber technology)
  - » Higher speeds to allow for increased connectivity throughout the state
  - » Florida is last in K-12 connectivity (only 58% of school districts meeting 100kbps per student)

- » Leverage **disruptions** from Internet of Things (IoT) and Artificial Intelligence (AI)

- » Cybersecurity concerns; developing a **resilient** system

Figure 1: Average Year Each Tipping Point Is Expected to Occur <sup>1</sup>

2018	2021	2022	2023	2024	2025	2026	2027
- Storage for All	- Robot and Services	- The Internet of and for Things - Wearable Internet - 3D Printing and Manufacturing	- Implantable Technologies - Big Data for Decisions - Vision as the New Interface - Our Digital Presence - Governments and the Blockchain - A Supercomputer in Your Pocket	- Ubiquitous Computing - 3D Printing and Human Health - The Connected Home	- 3D Printing and Consumer Products - AI and White-Collar Jobs - The Sharing Economy	- Driverless Cars - AI and Decision-Making - Smart Cities	- Bitcoin and the Blockchain

Source: World Economic Forum

# Waste Management Outline



## » Key Focus Areas:

» Pursue the economic benefits of resource efficiency embedded in the **circular economy**

- » *Decreased material costs, increased employment rates and profits.*
- » *By 2030, 2.5 billion will move out of poverty into cities.*

» Promote and encourage **free market** solutions and systems that capture commodities in FL's waste stream.

- » *End-of-life designs, commodity mining, etc.*



Source: [gfoss.eu](http://gfoss.eu)

# Environmental Issues Outline



## » Key Focus Areas:

### » Land

- » Merge *land conservation policies* and *smart growth principles* to protect: natural areas, wetlands, forests, conservation, agricultural and recreational lands
- » Utilize a *super region* approach to link conservation lands with growth areas

***Environmental quality is an economic driver. In 2016, 113 million visitors spent \$109 billion in Florida.***

### » Water

- » Support efforts to preserve the quality of *waterbodies, fisheries, and aquifers* that support tourism, agriculture and economic development



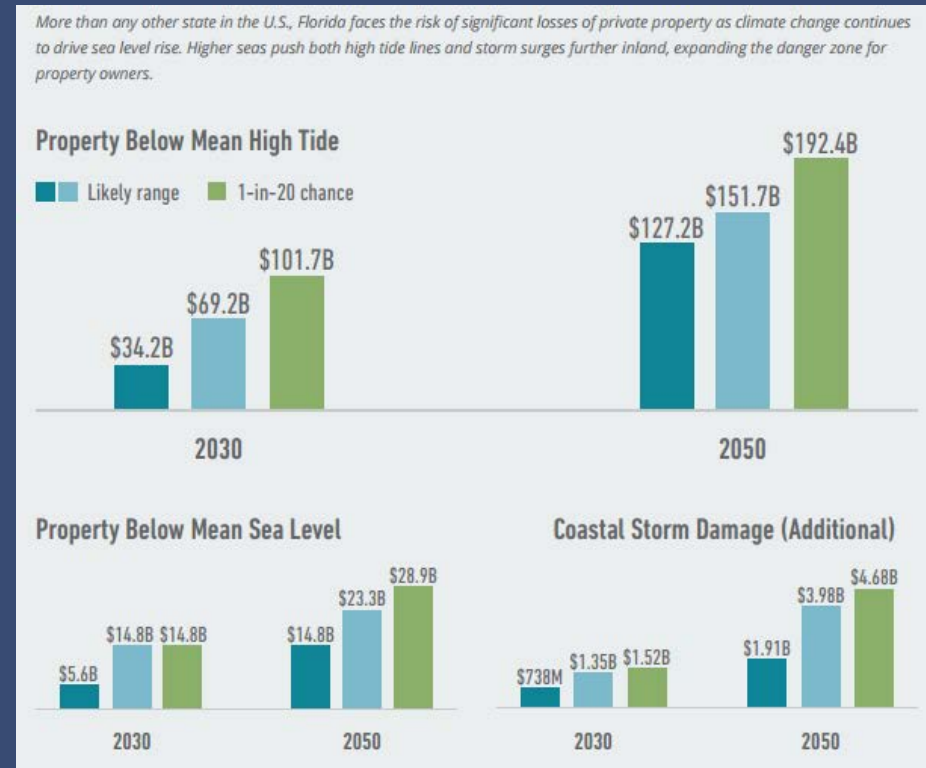
### » Air

- » Support actions that preserve Florida's generally good air quality

# Risk Preparedness & Mitigation Outline



- » Key Focus Areas:
  - » Support building of **resilient** infrastructure and systems and communities to combat **sea-level rise**
  - » Enhance **natural disaster** preparedness and recovery plans for hurricanes, floods, wildfires and drought
  - » Support research and prevention efforts to address **epidemiological threats** such as Zika



Source: Risky Business – The Bottom Line on Climate Change

“Within 30 years we will very likely experience sea level rise of a foot or more and by the end of the century a rise of five feet or more is predicted.”  
– (Greater Miami Chamber of Commerce).

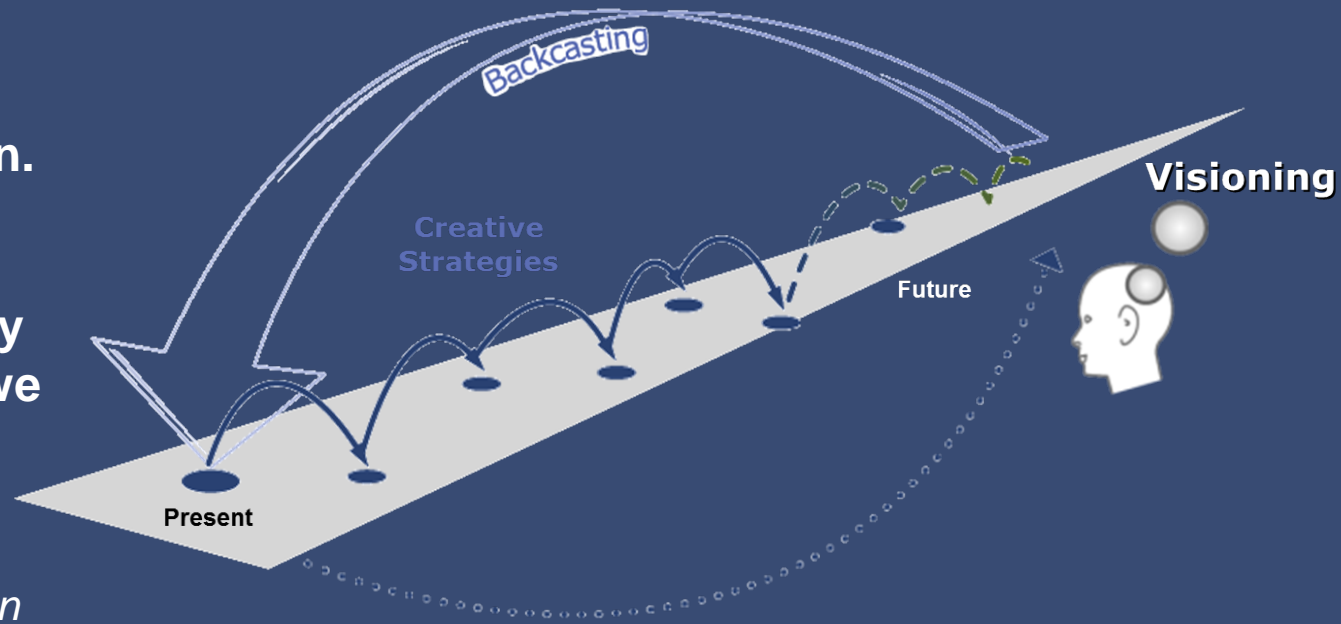


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# Backcasting and Forecasting

- » **Forecasting**, which attempts to extend trends in the present into the future to predict what might happen.
- » **Backcasting** turns this idea around by asking “What do we want the future to look like?”
  - » *Identify an aspirational vision for 2030*
  - » *Identify intermediate strategies/actions to achieve this vision*



Adapted from The Natural Step Framework

# Discussion Questions

## » What would this pillar look like if Florida is a top 10 economy globally by 2030?

- » *Florida is attractive to the millennial generation by improving transit, maintaining high-levels of internet connectivity, and growing our urbanized areas (i.e. Downtowns)*
- » *Florida ports are strategically positioned for Florida AND Southeast demand for goods*
- » *A diversified portfolio of energy resources that is affordable, flexible and resilient to change*
- » *Florida has adequately funded adaptation actions and developed emergency & recovery plans to meet the challenges posed by sea level rise and natural disasters*

# Discussion Questions

- » **What would this pillar look like if we had a pathway to prosperity for all zip codes in the state by 2030?**
  - » *More energy choices for Florida business and residents*
  - » *More choices for connectivity and innovative communication tools for urban and rural areas*
  - » *Environmental quality of land, water and air would be preserved for all Florida residents, and would continue to drive tourism and the economy*

# Discussion Questions

- » **What would this pillar look like if Florida's communities lead the nation and world as places to live, work, and visit?**
  - » *A high percentage of energy supply is sourced in-state from clean resources*
  - » *Growth of smart city infrastructure, autonomous vehicle and connected infrastructure within urban areas*
  - » *Florida's natural areas, conservation lands, beaches, and waterbodies are preserved in a healthy state, attracting visitors from around the world*

# Discussion Questions

## » **How should we measure success in 2030?**

- » *A diversified, innovative, clean resilient and affordable energy system*
- » *Availability of high-speed broadband connection in rural and urban areas (Fiber, 5G)*
- » *Florida's coastal population centers have successfully adapted to sea level rise challenges, maintaining stable or growing populations and remaining economically viable*

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# How do we get there?

- » What key issues need attention?
- » What major risks do we face?



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# Upcoming Dates

- **May 22, 2-3 PM ET: Joint call of all committees with Chamber Board of Governors**
- **June 14-15, Orlando: In person meetings**
  - All Committees\*  
June 14, 2017  
6:30 p.m. – 7:00 p.m. ET: Reception  
7:00 p.m. – 8:30 p.m. ET: Dinner
  - Six Pillar Advisory Committees  
June 15, 2017  
8:30 a.m. – 9:00 a.m. ET: Breakfast  
9:00 a.m. – 12:00 p.m. ET: Meetings

**1,000s** of Floridians

**6** Pillars

**2** Years

**1** Plan

**FL 2030 @FLChamber.com**