



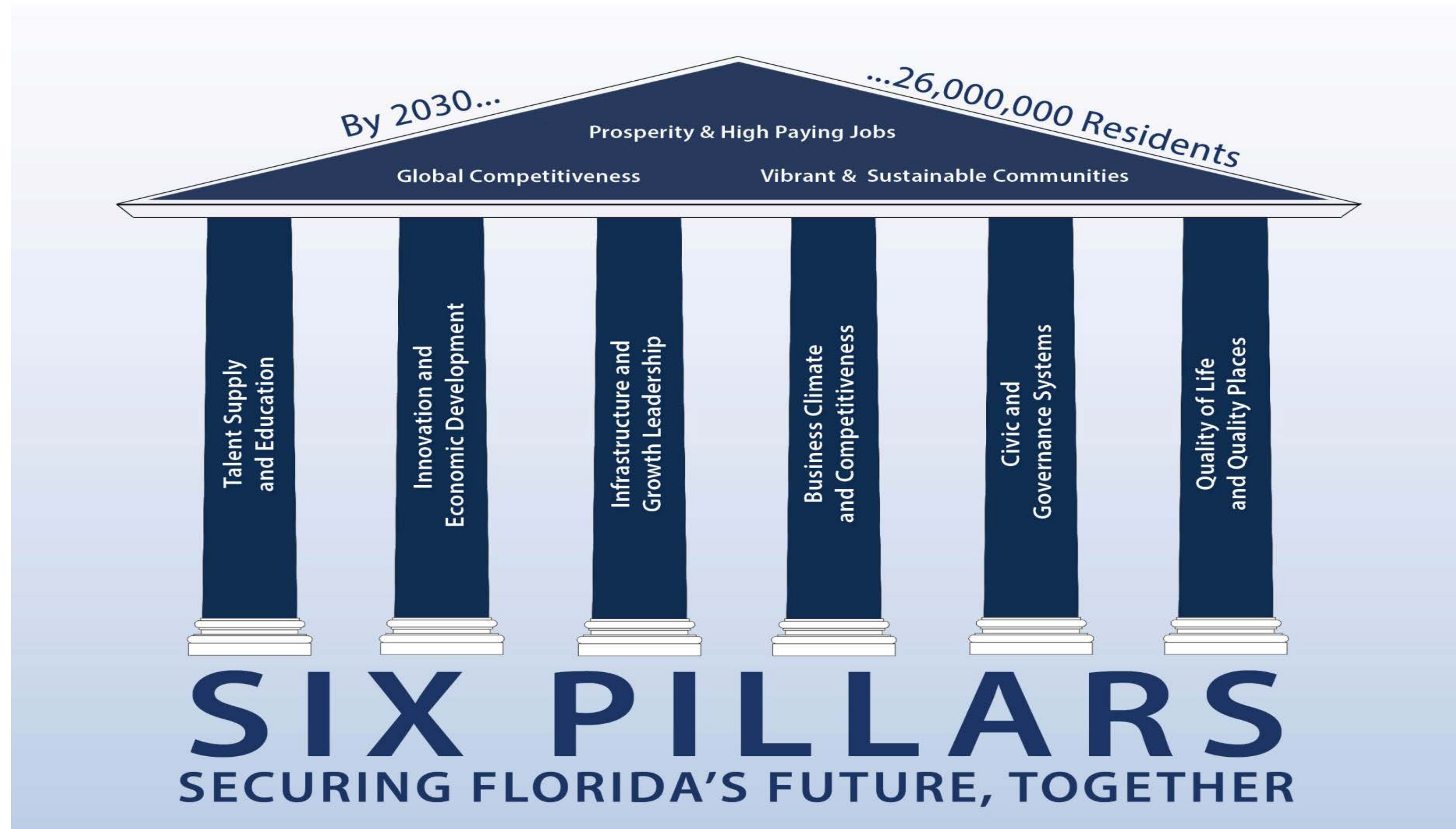
Infrastructure and Growth Leadership

Pillar Advisory Committee Web Conference
August 28, 2017

TODAY'S AGENDA

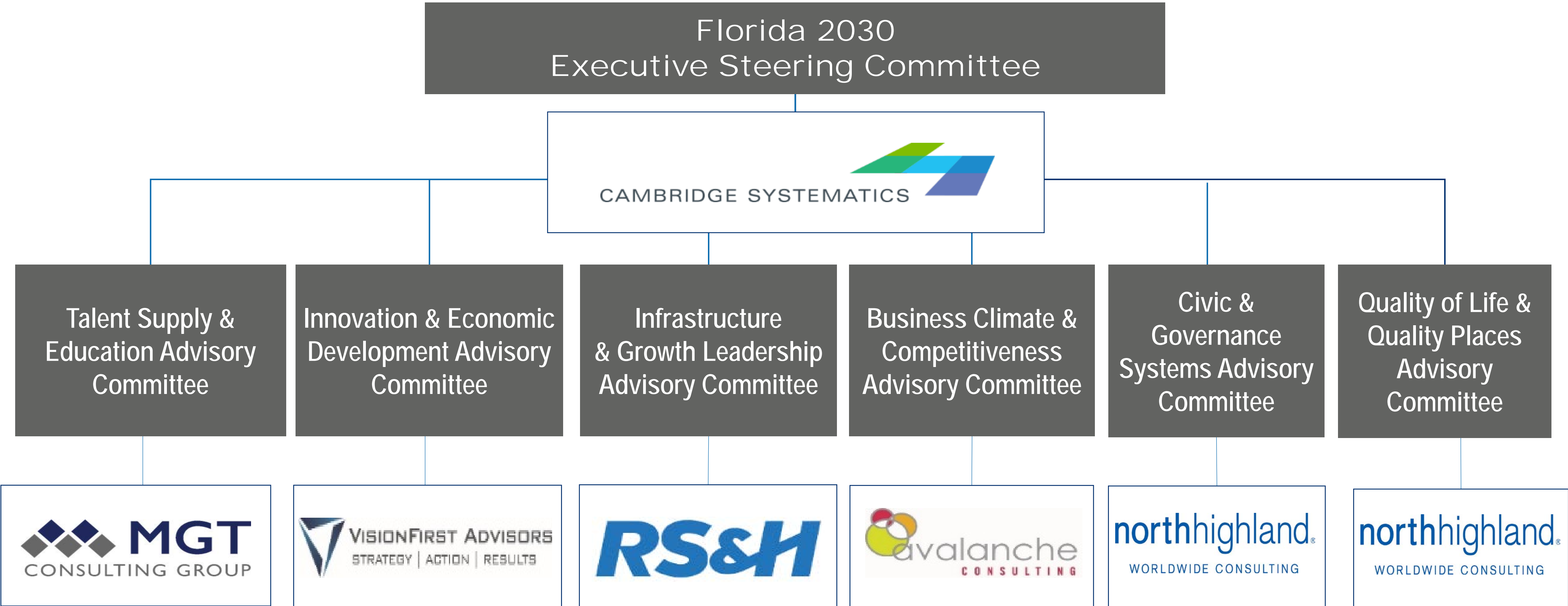
- » Introductions
- » Project Update
- » Goals – Infrastructure and Growth Leadership
- » Measures of Success – Infrastructure and Growth Leadership
- » Discussion Questions
- » Next Steps

PROJECT OVERVIEW



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

OVERVIEW



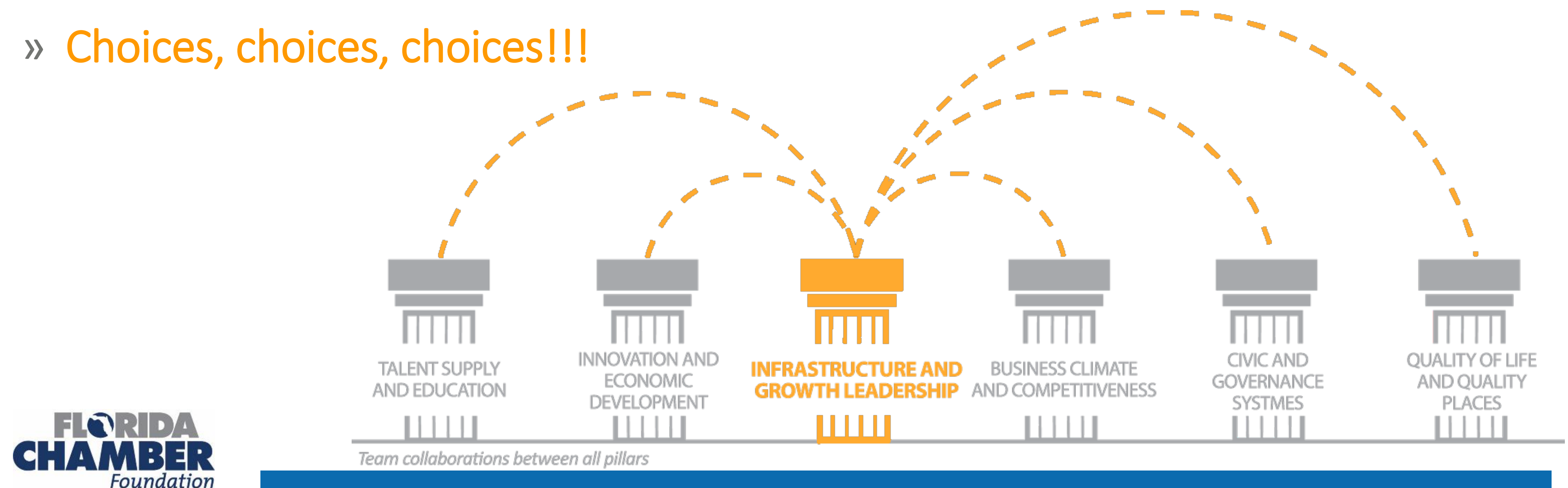
GETTING INVOLVED IS EASY:

Contact Brandi Brown, BBrown@FLFoundation.org, 850-521-1252



OVERARCHING THEMES

- » **Communications and Technology** (applies to all pillars)
- » **Adaptability**
 - » Be responsive to change including: Civic and Governance, Business Climate, and Economic Development & Innovation
- » **Choices, choices, choices!!!**



GOALS - Infrastructure & Growth Leadership

Land Use & Development

By 2030, all Floridians and visitors will have choices to live, work, and play in various land uses and designs of different scales from urban to rural. Florida will be a steward in growth leadership with focus on infrastructure sustainability, efficient uses of land and infrastructure and protection of natural resources.

Transportation & Logistics

By 2030, Florida is attractive to all generations by providing high-levels of transportation connectivity, premium passenger transportation connectivity options within and between regions, and smart regional connected infrastructure that accommodates autonomous vehicles and shared-transportation services.

By 2030, Florida ports (airports, seaports, and spaceports) are strategically positioned to support Florida's growth AND the Nation's demand for movement of goods, as well as, attract and meet the demands of visitors.

Communications & Technology

By 2030, all Floridians and visitors will have access to high-speed internet, state of the art mobile technologies, and other communications advancements including Internet of Things (IoT) and Artificial Intelligence (AI) integration into public/private infrastructure systems.

GOALS - Infrastructure & Growth Leadership

Water

By 2030, Florida's drinking water, stormwater and wastewater systems will use innovations to provide high-quality water and meet the growing demands. The state's beaches, bays, rivers, streams and springs will demonstrate excellent water quality, benefiting the environment, contributing to resident's and visitors quality of life.

Energy

By 2030, all Floridians and visitors will have access to a portfolio of energy sources. Florida's energy infrastructure systems will use innovations to diversify current sources and enhance the reliability of the grid to meet the growing energy demands and sustainability desires.

Risk & Resiliency

By 2030, Florida's infrastructure systems will be resilient to threats including wildfires, sinkholes, hurricanes other natural disasters, and terrorism. Specifically, Florida's infrastructure systems for coastal communities will be resilient to combat impacts from Sea Level Rise and storm surge.

Public-Private Partnerships (P3)

By 2030, Florida will continue to lead the nation in identifying opportunities for infrastructure improvements to be realized with the help of innovative public-private partnership to further the returns on investment for infrastructure projects throughout the State.

MEASURES OF SUCCESS - Infrastructure & Growth Leadership

Land Use & Development

- » *Increase in number of sustainable infill redevelopments focusing on highest and best use of lands/spaces*
- » *Increase in growth leadership projects highlighting open and green space principles*

Transportation & Logistics

- » *Increase in percent of Floridians served by premium transportation services beyond single occupant vehicles*
- » *Increase in percent share and value of national exports and imports from Florida ports (seaports, airports, and rail)*

Communications & Technology

- » *Increase in percent of Floridians with access to state of art communications infrastructure*
- » *Increase in deployment of IoT and AI technology into public/private infrastructure*

Water

- » *Increase and substantial improvements to access of clean water by advancing reuse and recycle initiatives*
- » *Increase in percent of Floridians served by utilities with no Safe Drinking Water Act (SDWA) violations*

Energy

- » *Increase in innovative solutions to diversify current sources of energy and expand the portfolio*
- » *Increase in reliability of energy grid (energy per capita)*

Risk & Resiliency

- » *Increase in percent spent on improvements for coastal infrastructure to combat Sea Level Rise*
- » *Increase in percent spent on resiliency measures and risk preparedness to respond to wildfires, sinkholes, hurricanes*

DISCUSSION QUESTIONS

Land Use &
Development

Transportation &
Logistics

Communications &
Technology

Water

Energy

Risk & Resiliency

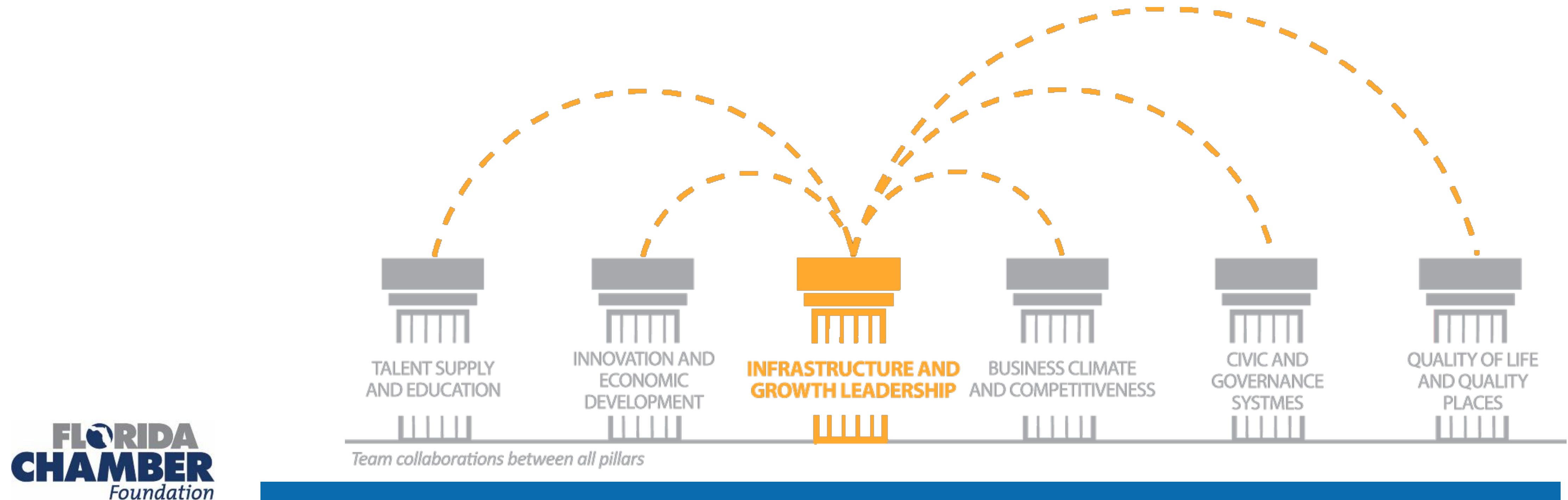
» *What are other big picture ideas that we should consider as goals for 2030?*

» *What are potential targets for measures of success in 2020, 2025, and 2030?*

» *What are some potential strategies and actions needed to accomplish the goals identified?*

NEXT STEPS

- » Finalize goals, measures of success, strategies and actions
- » Draft report
- » Future of Florida Forum presentation



QUESTIONS OR COMMENTS?

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Add researcher contact information here

Special Thanks to Our Florida 2030 Partners

PILLAR LEADERSHIP PARTNERS



SUSTAINING PILLAR PARTNERS



ANNUAL PILLAR PARTNERS





Future of Florida Forum

September 27-29, 2017

6 Pillars

3 Years

10,000+ Floridians

1 Plan

Florida2030.org

FL 2030 INFRASTRUCTURE & GROWTH LEADERSHIP PILLAR

STRATEGY MATRICES

- » *LAND USE & DEVELOPMENT ZONE*
- » *TRANSPORTATION & LOGISTICS ZONE*
- » *COMMUNICATIONS & TECHNOLOGY ZONE*
- » *ENERGY ZONE*
- » *WATER ZONE*
- » *RISK & RISILIENCY ZONE*

RS&H

DRAFT | AUGUST 30, 2017

LAND USE & DEVELOPMENT ZONE

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Land Use and Development			
Related Pillars	Affects: Quality of Life & Quality Places Affected By: Civic and Governance Systems			
2030 Goal	<p><i>Goal 1: By 2030, all Floridians and visitors will have choices to live, work, and play in various land uses and designs of different scales from urban to rural.</i></p> <p><i>Goal 2: By 2030, Florida will be a recognized steward in growth leadership with focus on infrastructure sustainability, efficient uses of land and infrastructure, and protection of natural resources.</i></p>			
Measure of Success	» Increase in number of sustainable developments focusing on highest and best use of lands/spaces (urban and/or rural) » Increase in growth leadership projects highlighting open and green space principles » Increase in growth leadership projects highlighting smart infrastructure technologies			
Target for Measure of Success	2030 » Each major urban area to have at least three (3) major sustainable, smart infrastructure planned developments which include open-spaces and parks » At least three (3) major sustainable, smart infrastructure development in a rural setting	2025 » Each major urban area to have at least one (1) major sustainable, smart infrastructure planned developments which include open-spaces and parks » At least one (1) major sustainable, smart infrastructure development in a rural setting	2020 » Each major urban area to initiate guidelines and policies for major sustainable, smart infrastructure planned developments which include open-spaces and parks	Today/Most Recent » Few examples of planned sustainable developments » Few examples of open space & green space parks within metro areas
Strategies/Actions	Long-Term (by 2030) » Build new sustainable urban and rural developments of varying scales which enhance the quality of life	Mid-Term (by 2025) » Initiate public/private partnerships to fund sustainable small town urban and rural developments	Short-Term (by 2020) » Advocate for development of sustainable urban and rural developments	

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Land Use and Development			
	<ul style="list-style-type: none"> » Build new sustainable urban and rural open space and green space parks that enhance the quality of life » Further the existing land preservation program that protects Florida's natural areas and eco-tourism opportunities to attract visitors and residents 	<ul style="list-style-type: none"> » Initiate public/private partnerships to incorporate sustainable smart infrastructure technologies within planned developments » Invest in land preservation efforts to ensure protection of agricultural and silviculture lands 	<ul style="list-style-type: none"> » Support efforts in growth leadership for implementing developments with open space and green design principles » Support efforts in growth leadership for implementing developments with smart infrastructure technologies 	
Partners	<ul style="list-style-type: none"> » FDEP » 1000 Friends of Florida » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	<ul style="list-style-type: none"> » FDEP » 1000 Friends of Florida » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	<ul style="list-style-type: none"> » FDEP » 1000 Friends of Florida » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	

TRANSPORTATION & LOGISTICS ZONE

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Transportation and Logistics			
Related Pillars	Affects: Quality of Life & Quality of Places , Talent and Education Affected By: Innovation and Economic Development, Civic and Governance Systems , and Business Climate			
2030 Goal	<p><i>GOAL 1: By 2030, Florida is attractive to all generations by providing high-levels of transportation connectivity, premium passenger transportation connectivity options within and between regions, and smart regional connected infrastructure that accommodates autonomous vehicles and shared-transportation services.</i></p> <p><i>GOAL 2: By 2030, Florida ports (airports, seaports, and spaceports) are strategically positioned to support Florida's growth AND the Nation's demand for movement of goods, as well as, attract and meet the demands of visitors.</i></p>			
Measure of Success	» Increase in percent of Floridians served by premium transportation services beyond single occupant vehicles » Increase in percent share and value of national exports and imports from Florida ports (seaports, airports, and rail) » Increase in percent share and value of people visiting the State			
Target for Measure of Success	2030 » Each major urban area to have more than one (1) mode and/or means of premium passenger transportation connectivity » Increase in Florida's seaports cargo tonnage and revenue by XX% » Increase in Florida's tourism through air travel by XX% » Have three (3) of Florida's cities/regions recognized as a model smart city/region	2025 » Each major urban area to have at least one (1) mode and/or means of premium passenger transportation connectivity » Increase in Florida's seaports cargo tonnage and revenue by XX% » Increase in Florida's tourism through air travel by XX% » Have two (2) of Florida's	2020 » Each major urban area to initiate guidelines for developing premium passenger transportation connectivity options within and between regions » Increase in Florida's seaports cargo tonnage and revenue by XX% » Increase in Florida's tourism through air travel by XX%	Today/Most Recent » In 2014, Florida had 31 urban fixed route transit systems » In 2014, 79% of Florida's population resided within ¾ mile of fixed route transit service) » Seven cities applied for USDOT Smart City Challenge » In 2014, Florida's 15 deepwater seaports moved 98.7 million tons of cargo and handled 3.3 million

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Transportation and Logistics			
	<ul style="list-style-type: none"> » Extensive deployment of AV technology on public roads including: Florida's Turnpike, expressway systems, and other toll/urban arterial facilities 	<ul style="list-style-type: none"> cities/regions recognized as a model smart city/region » Deployment of AV technology within controlled environments including ports, airports, transit, and university campuses 	<ul style="list-style-type: none"> » Have one (1) of Florida's cities/regions recognized as a model smart city/region » Florida has gained recognition for AV technology test-bed (Sun Trax, UF AV test-bed) 	<ul style="list-style-type: none"> 20-foot equivalent container units » Air travel plays an important role in Florida's tourism, with 50.6% of the tourists arriving by air
Strategies/Actions	Long-Term (by 2030)	Mid-Term (by 2025)	Short-Term (by 2020)	
	<ul style="list-style-type: none"> » Build new infrastructure projects as required to ensure deployment of AV technology on public and private streets » Evaluate progress towards ports (airport and seaport) infrastructure and Florida's competitiveness within the Southeast » Build new infrastructure projects that meet smart infrastructure initiatives and enhance the quality of life 	<ul style="list-style-type: none"> » Initiate public/private partnerships to fund AV technology deployment opportunities » Invest and determine funding alternatives /opportunities to enhance premium-transit services » Identify strategic investments in ports (airport and seaport) to enhance competitiveness and keep pace with technology changes 	<ul style="list-style-type: none"> » Advocate for development of premium transit services (including BRT, high-speed rail, commuter rail, and shared-transport services) » Advocate for Florida ports dredging to accommodate post-panamax ships and position Florida ports for national competitiveness » Advocate for Florida airports investment to enhance visitor travel experiences 	

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Transportation and Logistics			
Partners	<ul style="list-style-type: none"> » FDOT » Florida Ports Council » Florida Airports Council » Florida PTA » FL Chamber & Business Community » FL Legislature » FL Residents 	<ul style="list-style-type: none"> » FDOT » Florida Ports Council » Florida Airports Council » Florida PTA » FL Chamber & Business Community » FL Legislature » FL Residents 	<ul style="list-style-type: none"> » FDOT » Florida Ports Council » Florida Airports Council » Florida PTA » FL Chamber & Business Community » FL Legislature » FL Residents 	

COMMUNICATIONS & TECHNOLOGY ZONE

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Communications and Technology			
Related Pillars	Affects: Quality of Life and Places, Education and Talent, and Civic and Governance Systems Affected By: Innovation and Economic Development; and Civic and Governance Systems			
2030 Goal	<i>By 2030, all Floridians and visitors will have access to high-speed internet, state of the art mobile technologies, and other communications advancements including Internet of Things (IoT) and Artificial Intelligence (AI) integration into public/private infrastructure systems.</i>			
Measure of Success	» Increase in percent of Floridians with access to state of art communications infrastructure » Increase in deployment of IoT and AI technology into public/private infrastructure			
Target for Measure of Success	2030 » 100% high-speed internet coverage » <1% population underserved » Standardization of IoT and AI technology within state, city, and local infrastructure	2025 » 97.5% high-speed internet coverage » <5% population underserved » Deployment of IoT and AI within state, city, and local infrastructure	2020 » 95% high-speed internet coverage » <10% population underserved » Initiate guidelines for utilization of IoT and AI within state, city, and local infrastructure	Today/Most Recent » 94% broadband coverage » 100% mobile broadband service » 15% population underserved » 35.8 mbps average state-wide speed
Strategies/Actions	Long-Term (by 2030) » Build new state-of-art infrastructure that integrates IoT and AI to enhance safety and quality of life of all Floridians and visitors » Build infrastructure to keep pace with technological changes and provide high-speed communications to all residents and visitors	Mid-Term (by 2025) » Initiate public/private partnerships to ensure high-speed communications for all Floridians and visitors » Invest in IoT and AI technology deployment within state, city, and local infrastructure	Short-Term (by 2020) » Advocate for state-of-art communications infrastructure » Advocate and support efforts to increase speeds and decrease number of underserved Floridians » Support efforts to introduce and develop IoT and AI technology within state, city, and local infrastructure	

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Communications and Technology			
Partners	<ul style="list-style-type: none"> » Florida Public Service Commission » Fiber Broadband Association » The Rural Broadband Association » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	<ul style="list-style-type: none"> » Florida Public Service Commission » Fiber Broadband Association » The Rural Broadband Association » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	<ul style="list-style-type: none"> » Florida Public Service Commission » Fiber Broadband Association » The Rural Broadband Association » FL Chamber & Business Community » FL Legislature » FL Residents » FL Future Corridors 	

ENERGY ZONE

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Energy			
Related Pillars	Affects: Business Climate and Competitiveness, Quality of Life & Quality Places Affected By: Civic and Governance Systems, Innovation & Economic Development			
2030 Goal	<i>By 2030, Florida will accommodate the growing demand of energy for homes, businesses and transportation, by diversifying current energy/fuel sources, improving the efficiency and reliability of the energy grid, and facilitating the application of advance technology.</i>			
Measure of Success	» Increase in innovative solutions to diversify current sources of energy and expand the portfolio » Increase in reliability of energy grid (energy per capita)			
Target for Measure of Success	2030	2025	2020	Today/Most Recent
	» Increase in share of energy sales from alternative fuel sources by XX% » Increase in reliability and capacity of energy grid by XX%	» Increase in share of energy sales from alternative fuel sources by XX% » Increase in reliability and capacity of energy grid by XX%	» Initiate guidelines to increase investments in innovative solutions to diversity current sources of energy » Increased investment in technological advancements to enhance reliability of energy grid	» 3% of retail electric sales from non-fossil fuels » <1% on-road fuel sales from alternative fuels » 0.1% incremental annual savings of retail electric sales from energy efficiency
Strategies/Actions	Long-Term (by 2030)	Mid-Term (by 2025)	Short-Term (by 2020)	
	» Support and enact regulatory reform to address grid modernization & access, storage & DG, energy efficiency » Develop a statewide fund to support clean fuels and clean energy development	» Establish goals for renewable energy, energy efficiency and energy cost for the state. » Strategic investments in technology to enhance the capacity and reliability of energy grid	» Develop a statewide energy plan to address diversifying portfolio » Incentivize adoption of electric vehicles and supporting infrastructure » Annually report on fossil and alternative-fuels sales within the State	

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Energy			
Partners	» FL Chamber » Utilities » Energy innovation business interests » Financiers/Investors » FL Public Utilities Commission » FL Legislature » Public interest groups » Large energy consumers » FL Future Corridors	» FL Chamber » Utilities » Energy innovation business interests » Financiers/Investors » FL Public Utilities Commission » FL Legislature » Public interest groups » Large energy consumers » FL Future Corridors	» FL Chamber » Utilities » Energy innovation business interests » Financiers/Investors » FL Public Utilities Commission » FL Legislature » Public interest groups » Large energy consumers » FL Future Corridors	

WATER ZONE

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Water			
Related Pillars	Affects: Quality of Life & Quality Places Affected By: Civic and Governance Systems			
2030 Goal	<i>By 2030, Florida's drinking water, stormwater and wastewater systems will use innovations to provide high-quality water and meet the growing demands. The state's beaches, bays, rivers, streams and springs will demonstrate excellent water quality, benefiting the environment, contributing to residents and visitors quality of life.</i>			
Measure of Success	» Increase and substantial improvements to access of clean water by advancing reuse and recycle initiatives » Increase in percent of Floridians served by utilities with no Safe Drinking Water Act (SDWA) violations » Increase in percent of greywater recycled and re-used for other purposes » Increase in percent of stormwater systems that meet water quality standards			
Target for Measure of Success	2030 » Build new infrastructure through innovations to reuse and recycle water » 85% Floridians served by utilities with no SDWA violations » 60% of FL assessed rivers and streams do not have a nutrient-related impairment » 100% of new stormwater infrastructure systems will meet water quality standards » 75% of wastewater systems in the state have been upgraded to meet or exceed 10 States Standards	2025 » Initiate investments into innovations to reuse and recycle initiatives that provide clean water » 80% of Floridians served by utilities with no SDWA violations » 55% of FL assessed rivers and streams do not have a nutrient-related impairment » 75% of new stormwater infrastructure systems will meet water quality standards » 50% of wastewater systems in the state have been upgraded to meet or exceed 10 States Standards	2020 » Initiate guidelines to develop reuse and recycle initiatives to provide clean water » 75% of Floridians served by utilities with no SDWA violations » 50% of FL assessed rivers and streams do not have a nutrient-related impairment » 50% of new stormwater infrastructure systems will meet water quality standards » 25% of wastewater systems in the state have been upgraded to meet or exceed 10 States Standards	Today/Most Recent » 72% of Floridians served by utilities with no SDWA violations » 45% of FL assessed rivers and streams do not have a nutrient-related impairment (2016) » GI infrastructure baseline – TBD » Wastewater System baseline - TBD

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Water			
Strategies/Actions	Long-Term (by 2030)	Mid-Term (by 2025)	Short-Term (by 2020)	
	<ul style="list-style-type: none"> » Build new infrastructure projects as required to diversify water sources to meet growing demand (reclaimed water, desalination, etc.) » Evaluate progress towards water quality goals and adjust strategies to achieve continual improvement 	<ul style="list-style-type: none"> » Initiate public/private (P3) partnerships to fund water/stormwater/waste water infrastructure improvements (under FL House bill 85) » Encourage the state legislature, municipalities and private partners to consider the economic value of clean water when considering infrastructure investments » Incentivize water conservation, reuse, and innovative technologies such as desalination to limit depletion of Florida's aquifers 	<ul style="list-style-type: none"> » Advocate for potable water infrastructure that consistently delivers clean water » Support efforts to improve wastewater infrastructure and minimize health and environmental/economic impacts from unpermitted discharges. » Support efforts to preserve the quality of waterbodies, fisheries, and aquifers that support tourism, agriculture and economic development 	
Partners	<ul style="list-style-type: none"> » FL Chamber & Business Community » Municipal & private utilities » FDEP » FL Legislature » FL Residents 	<ul style="list-style-type: none"> » FL Chamber & Business Community » Municipal & private utilities » FDEP » FL Legislature » FL Residents 	<ul style="list-style-type: none"> » FL Chamber & Business Community » Municipal & private utilities » FDEP » FL Legislature » FL Residents 	

RISK & RESILIENCY

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Risk and Resiliency			
Related Pillars	Affects: Business Climate and Competitiveness, Quality of Life & Quality Places Affected By: Civic and Governance Systems, Innovation & Economic Development			
2030 Goal	<i>By 2030, Florida's infrastructure systems will be resilient to threats including wildfires, sinkholes, hurricanes other natural disasters, and terrorism. Specifically, Florida's infrastructure systems for coastal communities will be resilient to combat impacts from Sea Level Rise and storm surge.</i>			
Measure of Success	» Increase in percent spent on improvements for coastal infrastructure to combat Sea Level Rise » Increase in percent spent on resiliency measures and risk preparedness to respond to wildfires, sinkholes, hurricanes			
Target for Measure of Success	2030	2025	2020	Today/Most Recent
	» Continued strategic investments in spending for responses to wildfires, sinkholes, hurricanes » 50% of FL communities at risk have achieved a NFIP Community Rating System (CRS) score of 5 or lower.	» Strategic investments in spending for responses to wildfires, sinkholes, hurricanes » 30% of FL communities at risk have achieved a NFIP Community Rating System (CRS) score of 5 or lower.	» Initiate guidelines to strategies spending on risk and resiliency of Florida's infrastructure » 20% of FL communities at risk have achieved a NFIP Community Rating System (CRS) score of 5 or lower.	» 14% of FL communities at risk have achieved a NFIP Community Rating System (CRS) score of 5 or lower.
Strategies/Actions	Long-Term (by 2030)	Mid-Term (by 2025)	Short-Term (by 2020)	
	» Implement actions to protect infrastructure in Adaptation Action Areas » Implement vulnerability	» Work to establish state-level funding for adaptation actions to protect vulnerable infrastructure » Leverage vulnerability assessments in	» Recommend communities identify Adaptation Action Areas throughout the state for all coastal communities at risk	

Primary Pillar	Infrastructure and Growth Leadership			
Applicable Zone(s)	Risk and Resiliency			
	assessment recommendations » Encourage/incentivize remaining Florida communities at risk to reduce their CRS score	determining funding priorities » Continue to encourage/incentivize communities to enter the CRS program and reduce their CRS score, making them less vulnerable and reducing flood insurance costs for property owners	» Support/incentivize communities to complete vulnerability assessments » Encourage/incentivize communities to enter the CRS program and reduce their CRS score, making them less vulnerable and reducing flood insurance costs for property owners	
Partners	» SE FL Climate Compact » FL Chamber & Business Community » FL Legislature » FL Governor » FL Residents » Universities	» SE FL Climate Compact » FL Chamber & Business Community » FL Legislature » FL Governor » FL Residents » Universities	» SE FL Climate Compact » FL Chamber & Business Community » FL Legislature » FL Governor » FL Residents » Universities	