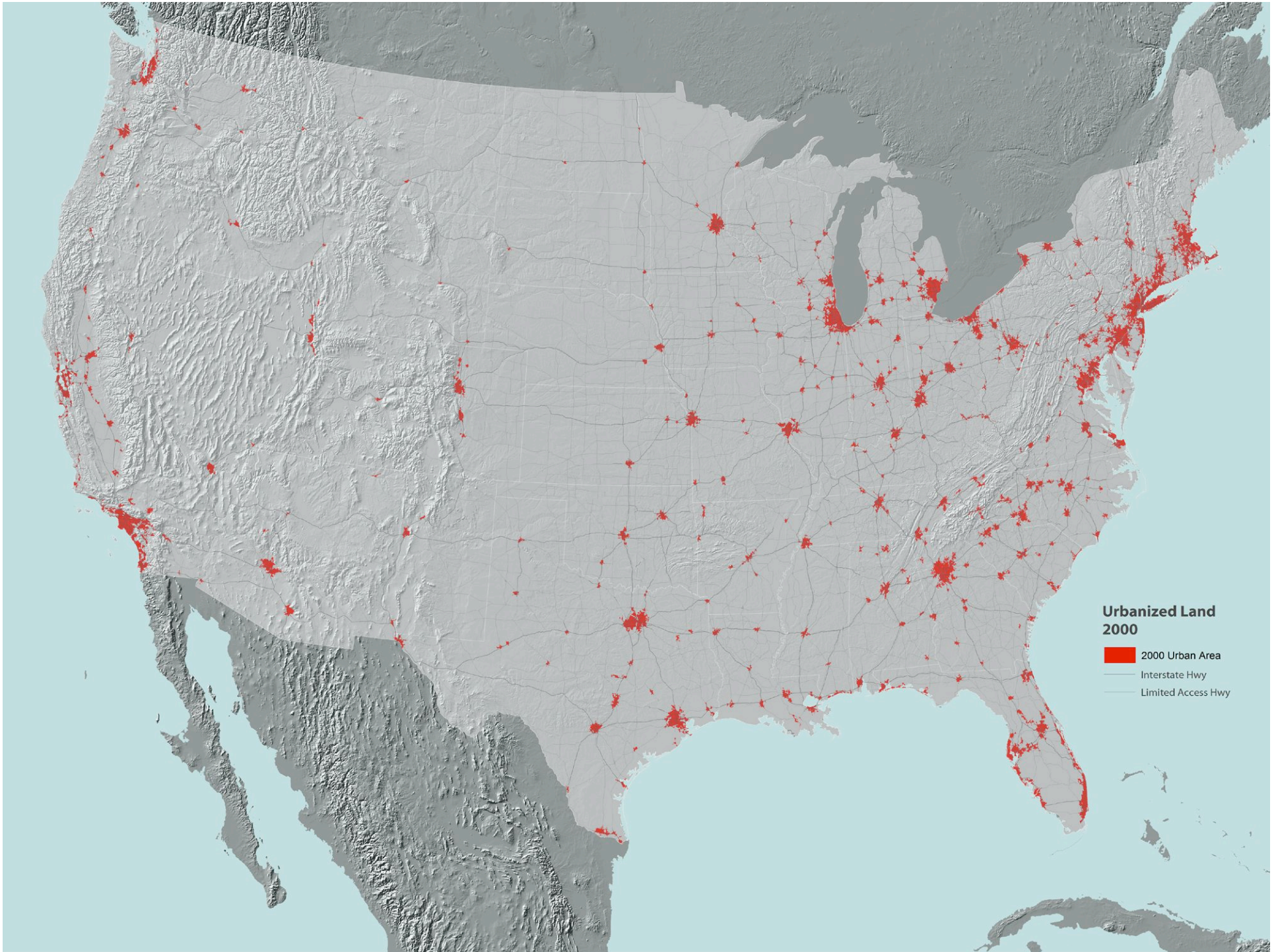


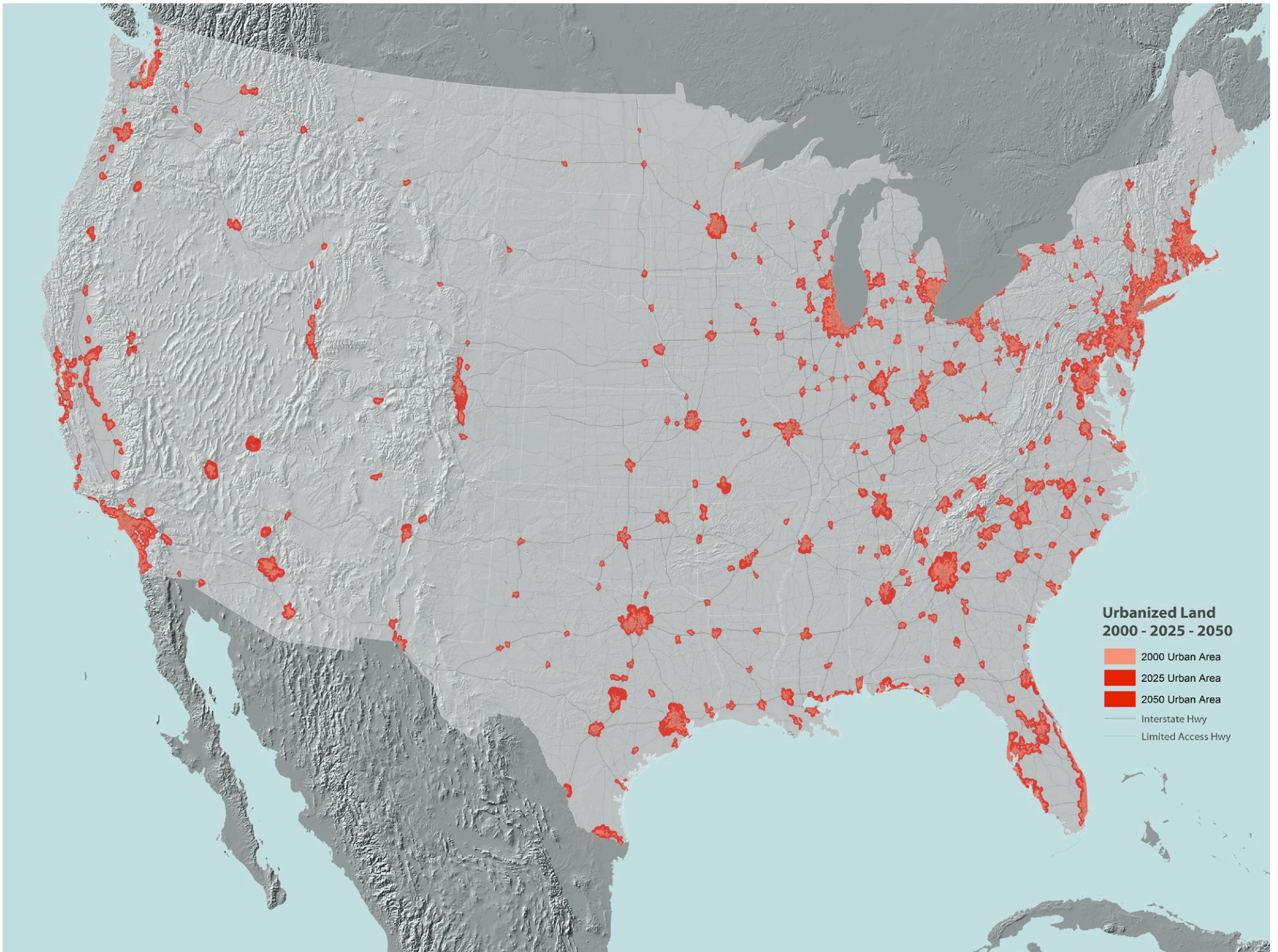


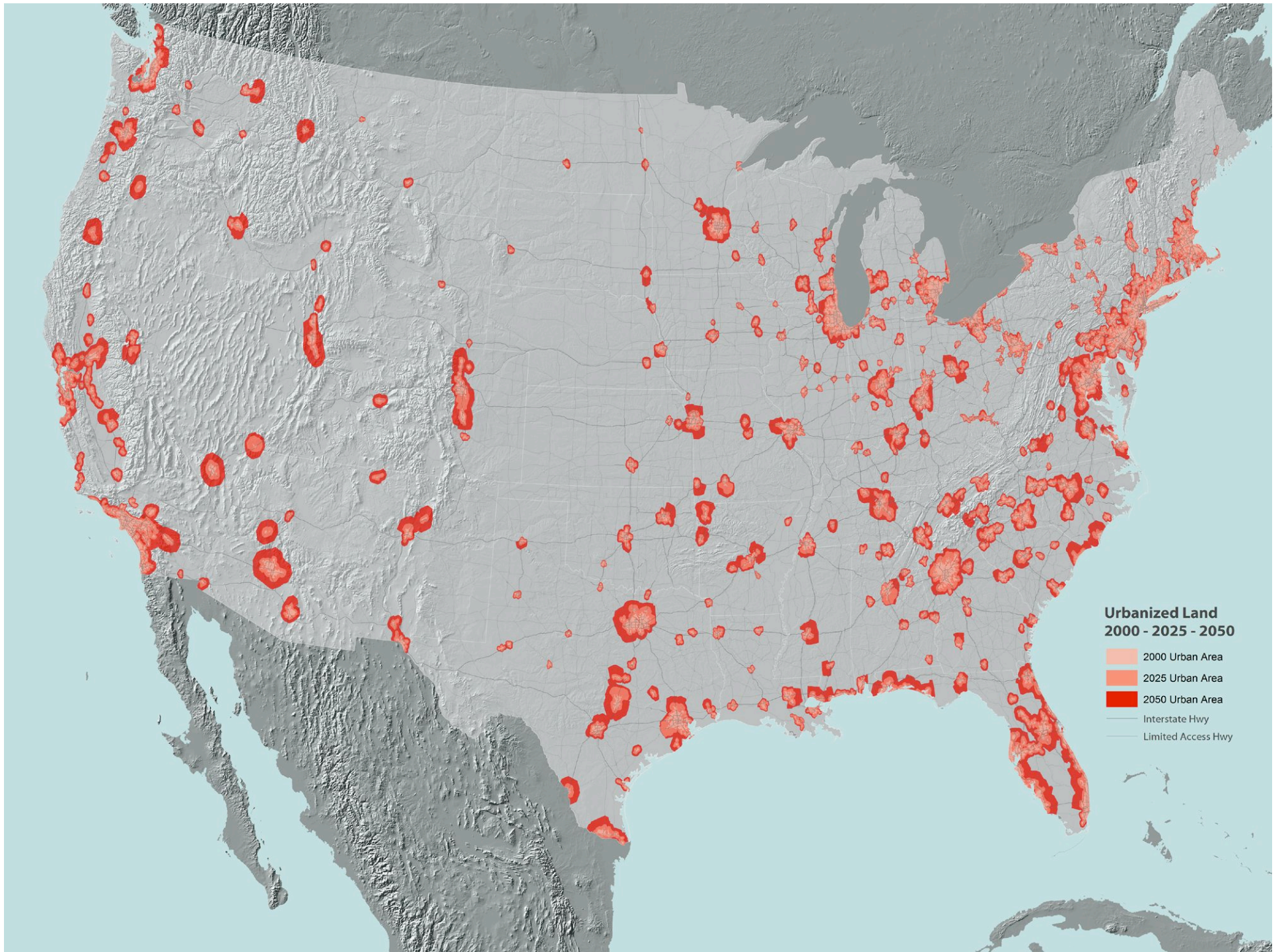
Smart Growth in a Changing World



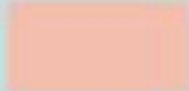
**Urbanized Land
2000**

- 2000 Urban Area
- Interstate Hwy
- Limited Access Hwy





Urbanized Land 2000 - 2025 - 2050



2000 Urban Area



2025 Urban Area



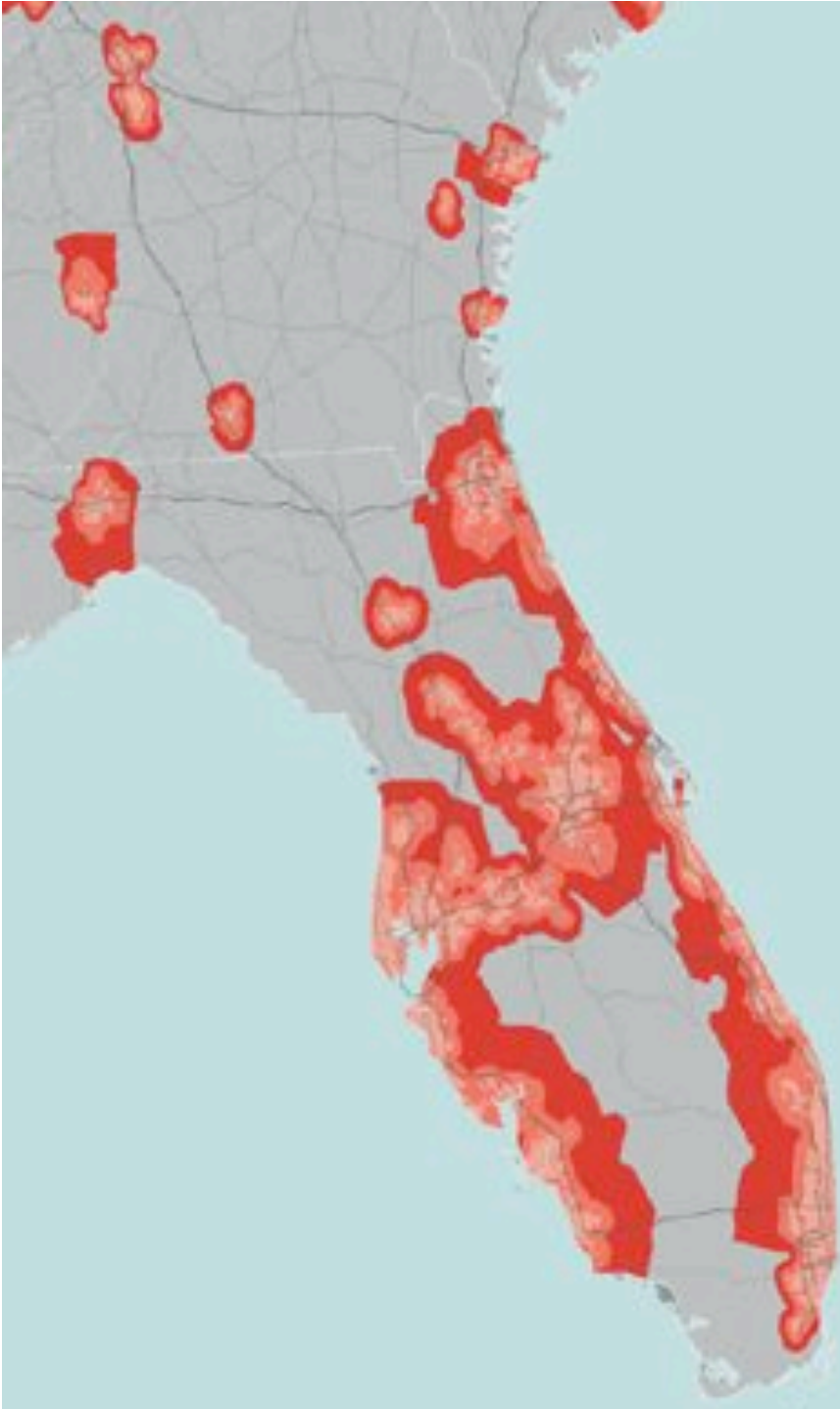
2050 Urban Area



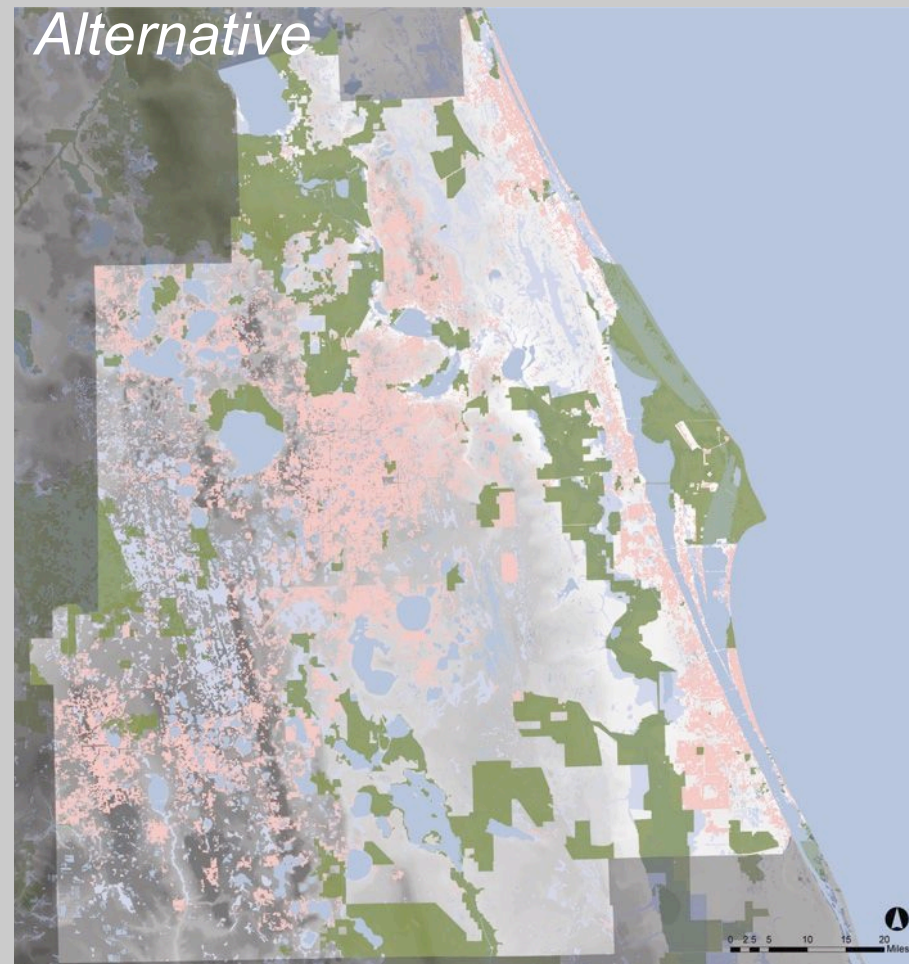
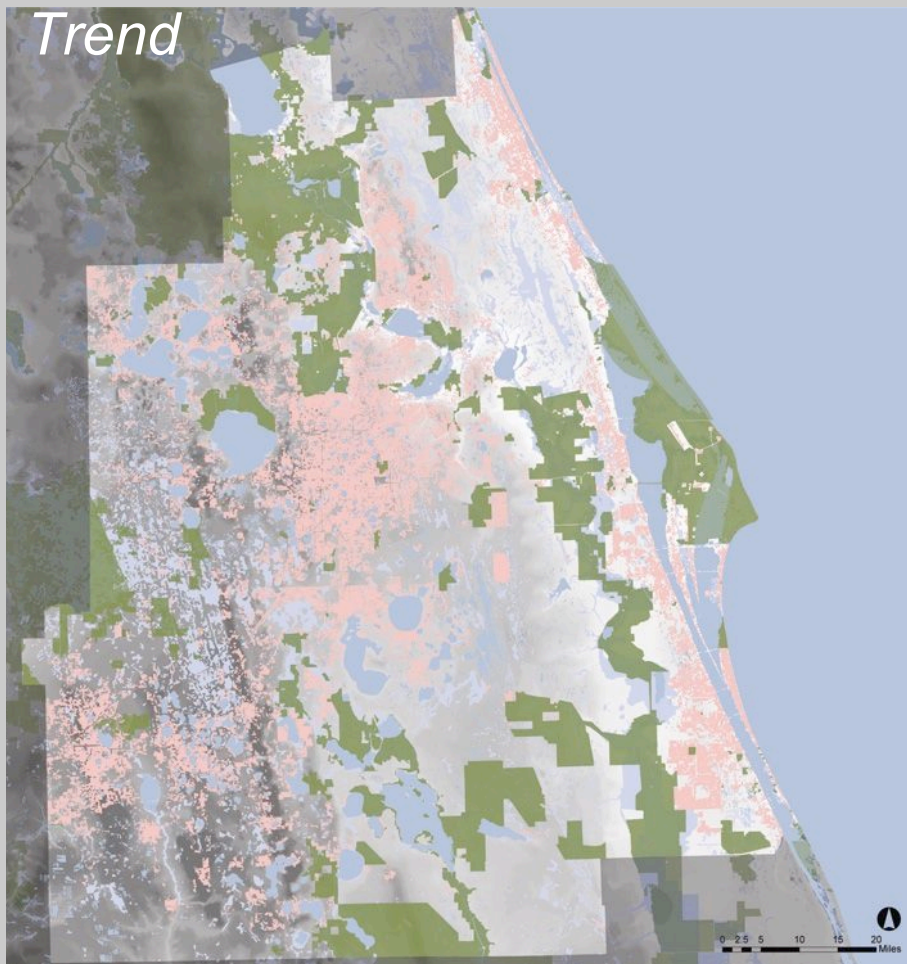
Interstate Hwy



Limited Access Hwy

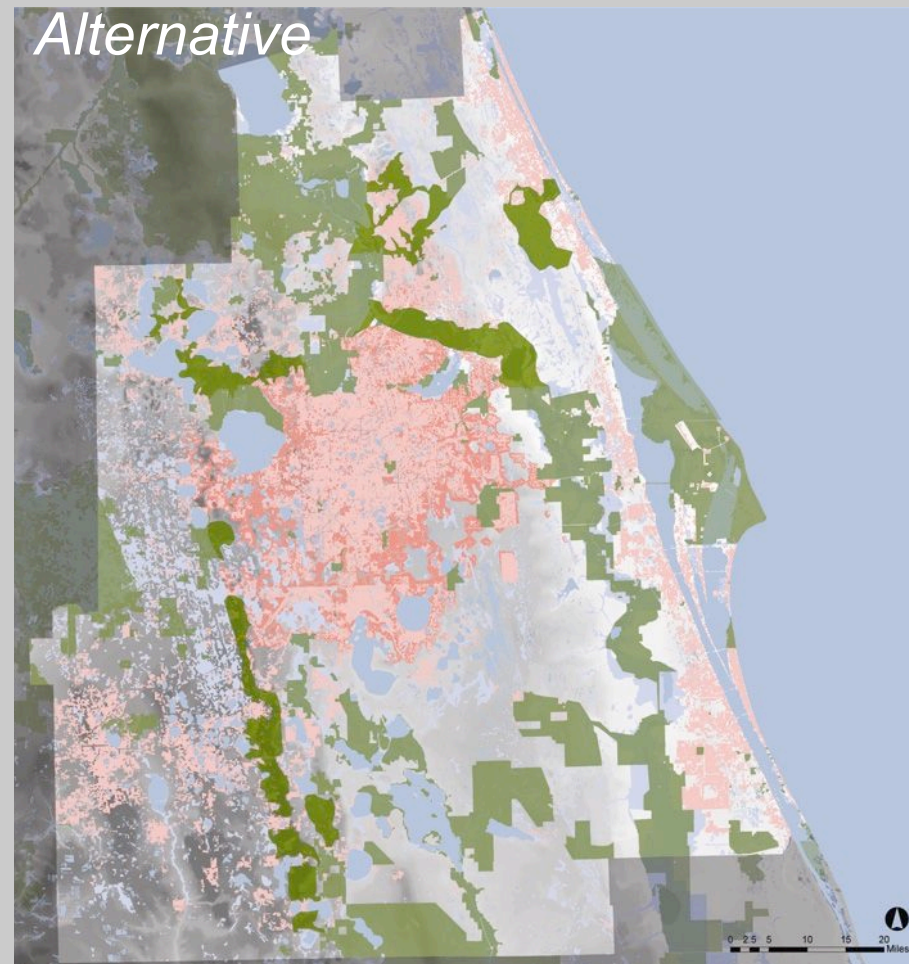
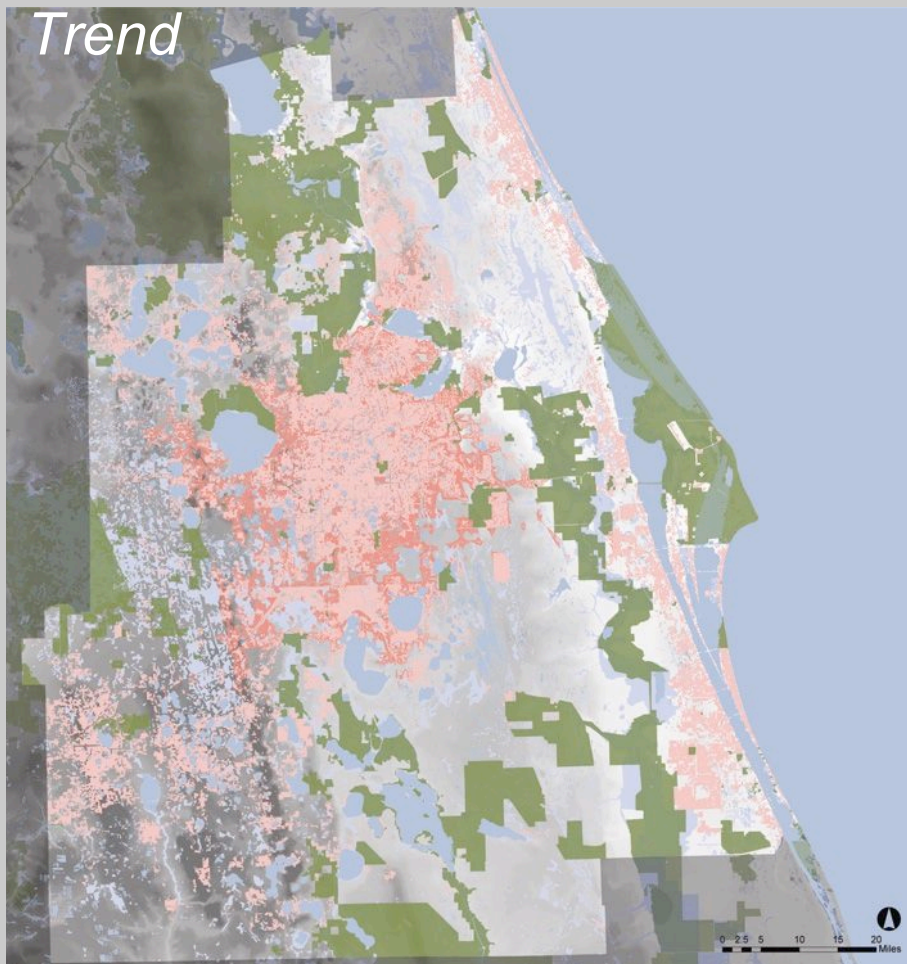


Phase I: 2000



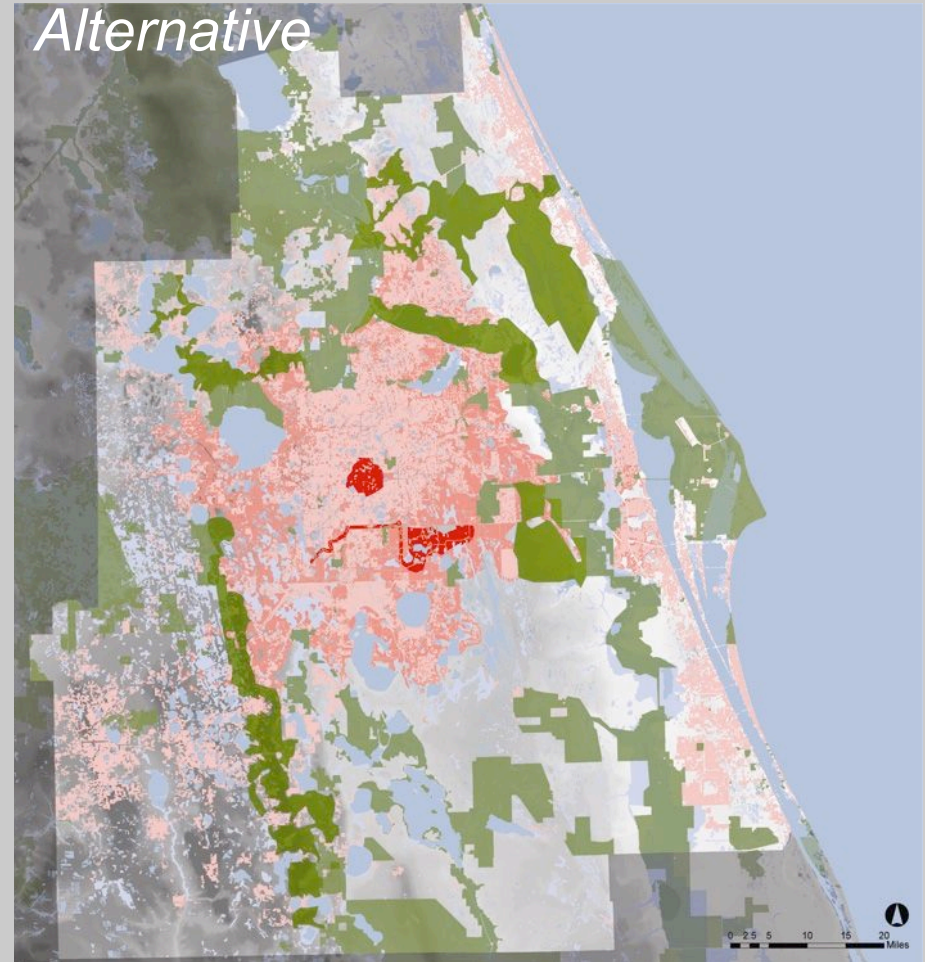
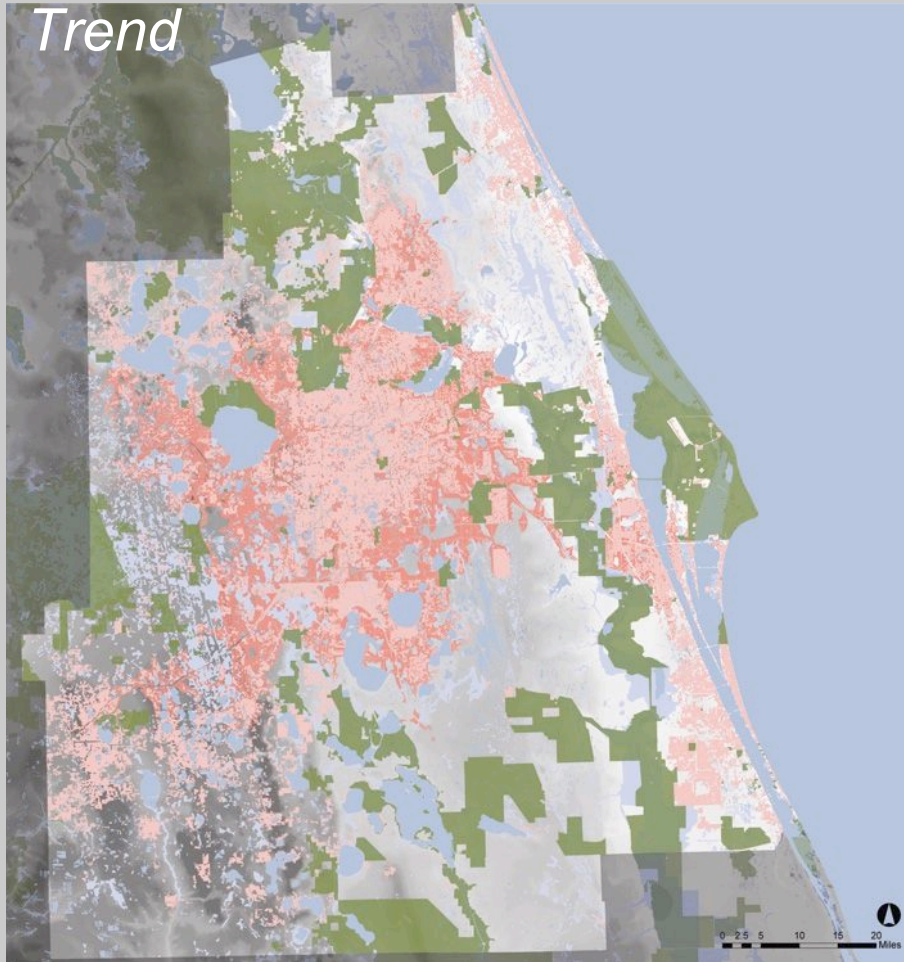
SEVEN COUNTY ORLANDO REGION

Phase I: 2010



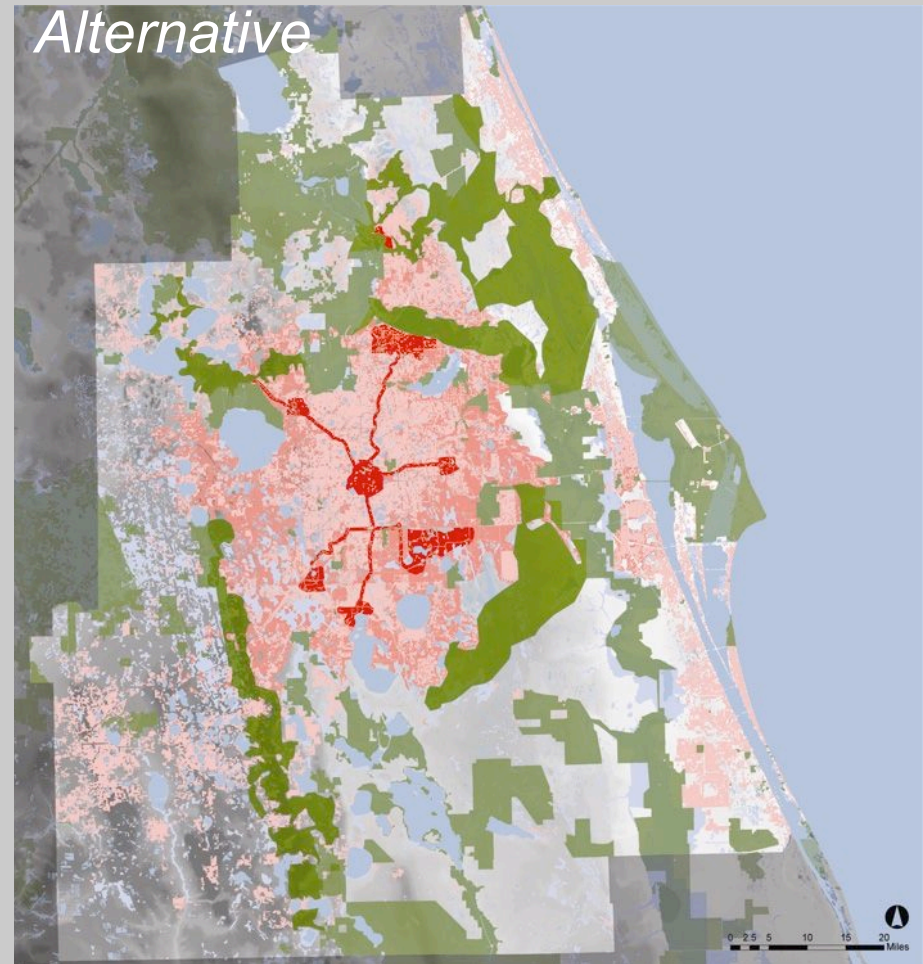
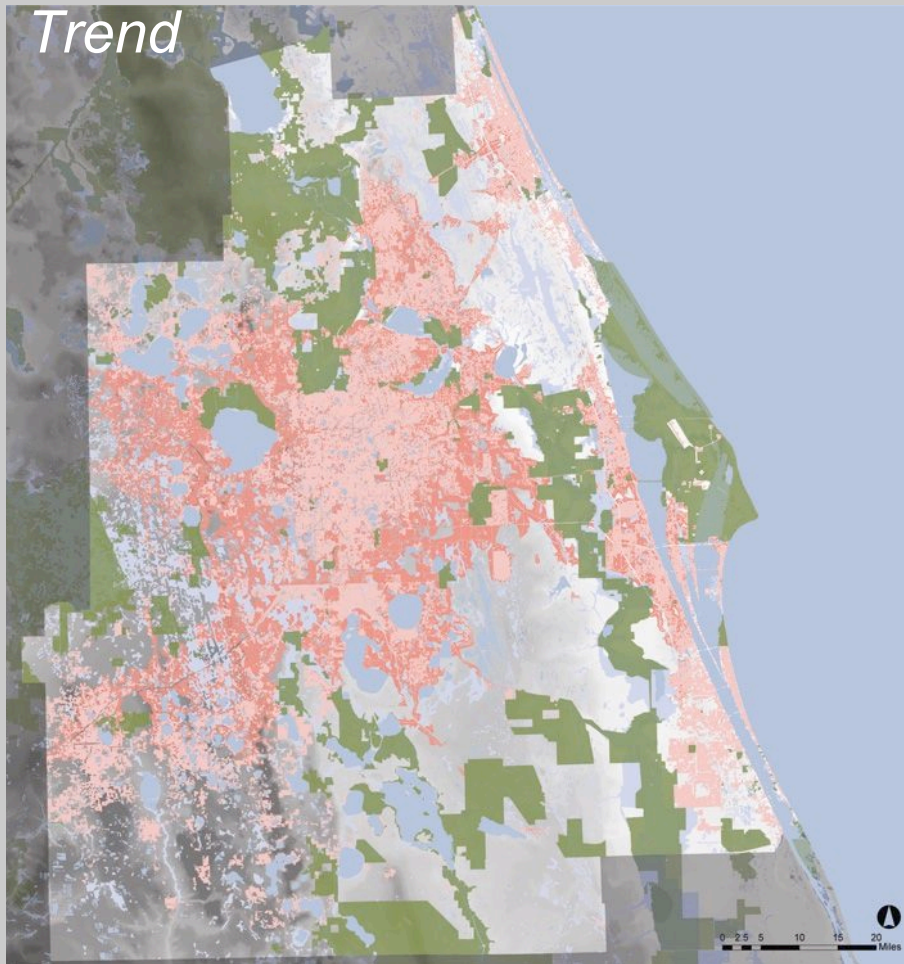
SEVEN COUNTY ORLANDO REGION

Phase II: 2020



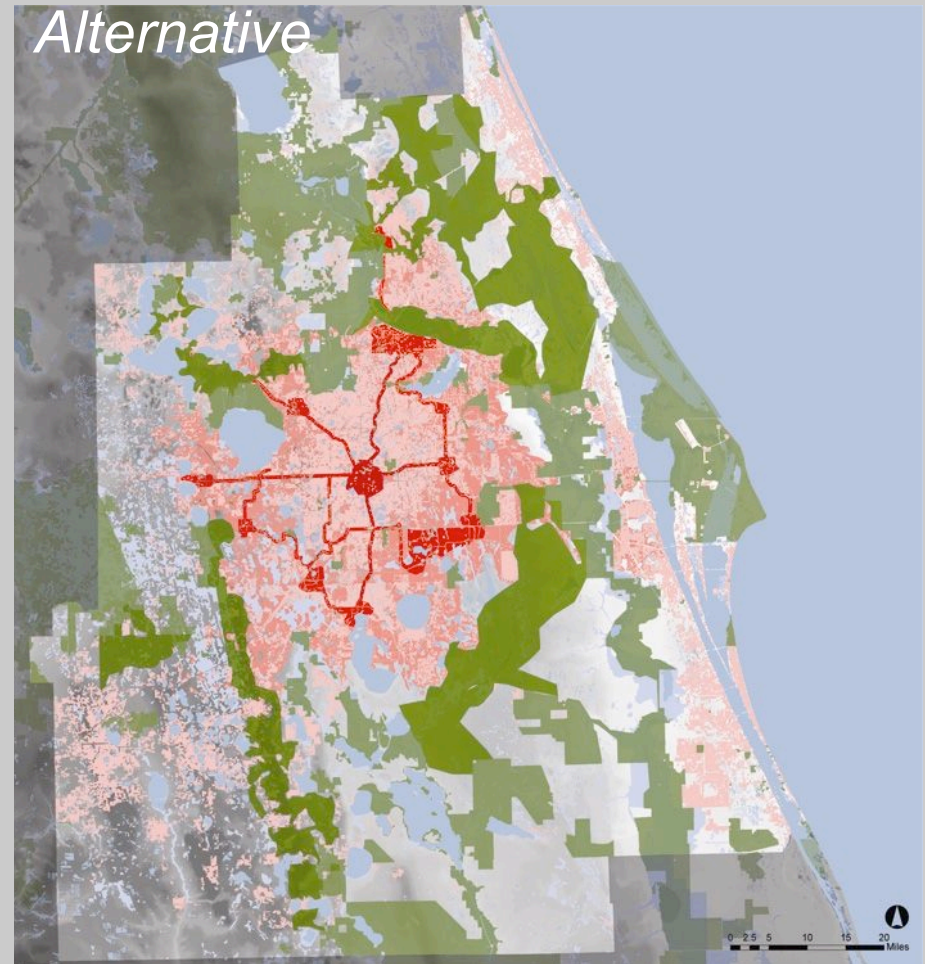
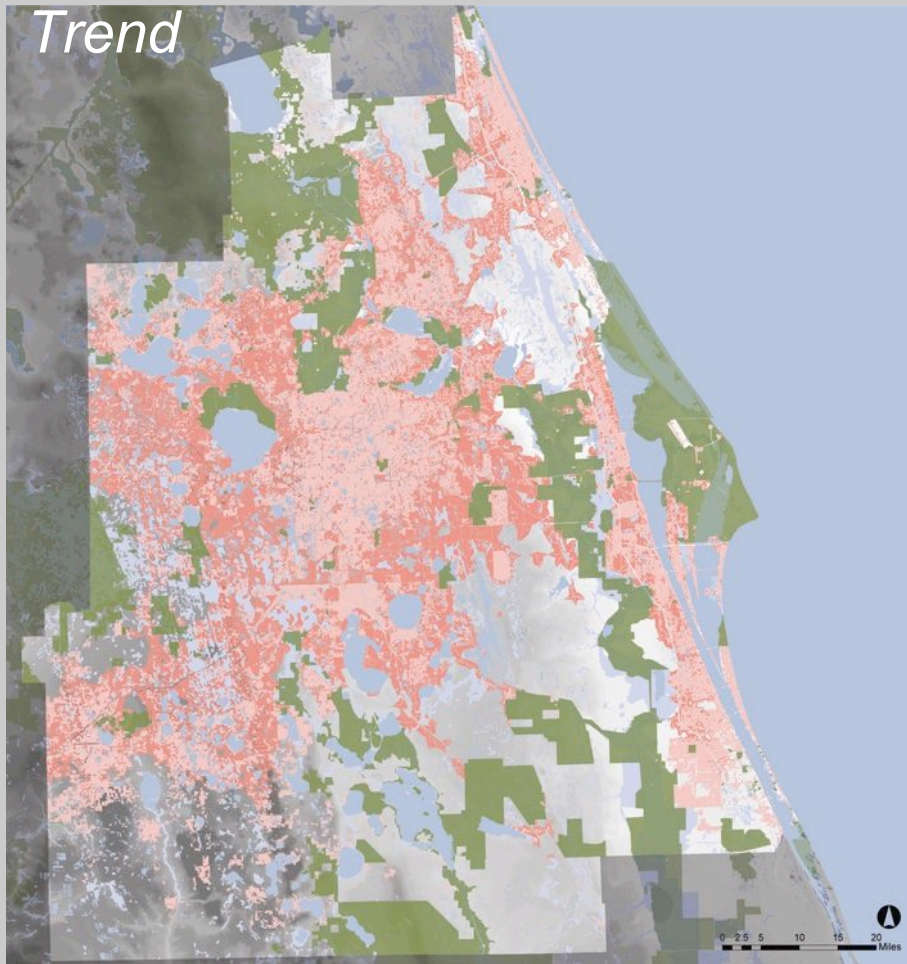
SEVEN COUNTY ORLANDO REGION

Phase III: 2030



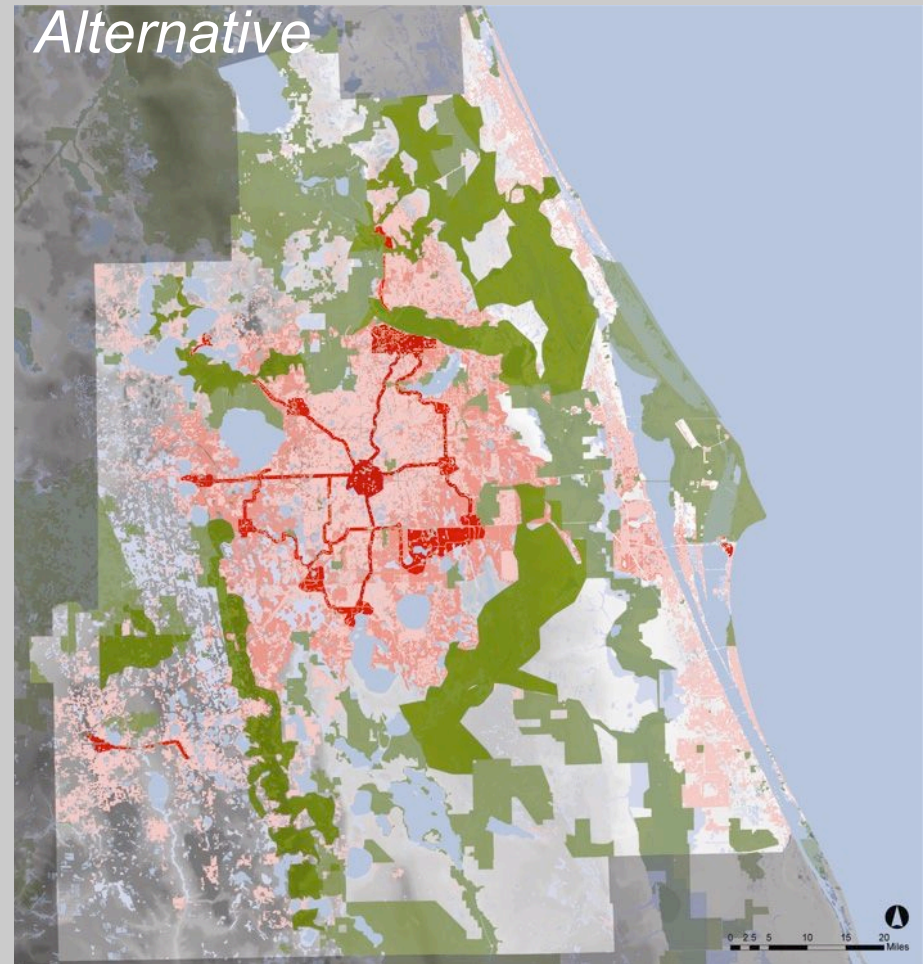
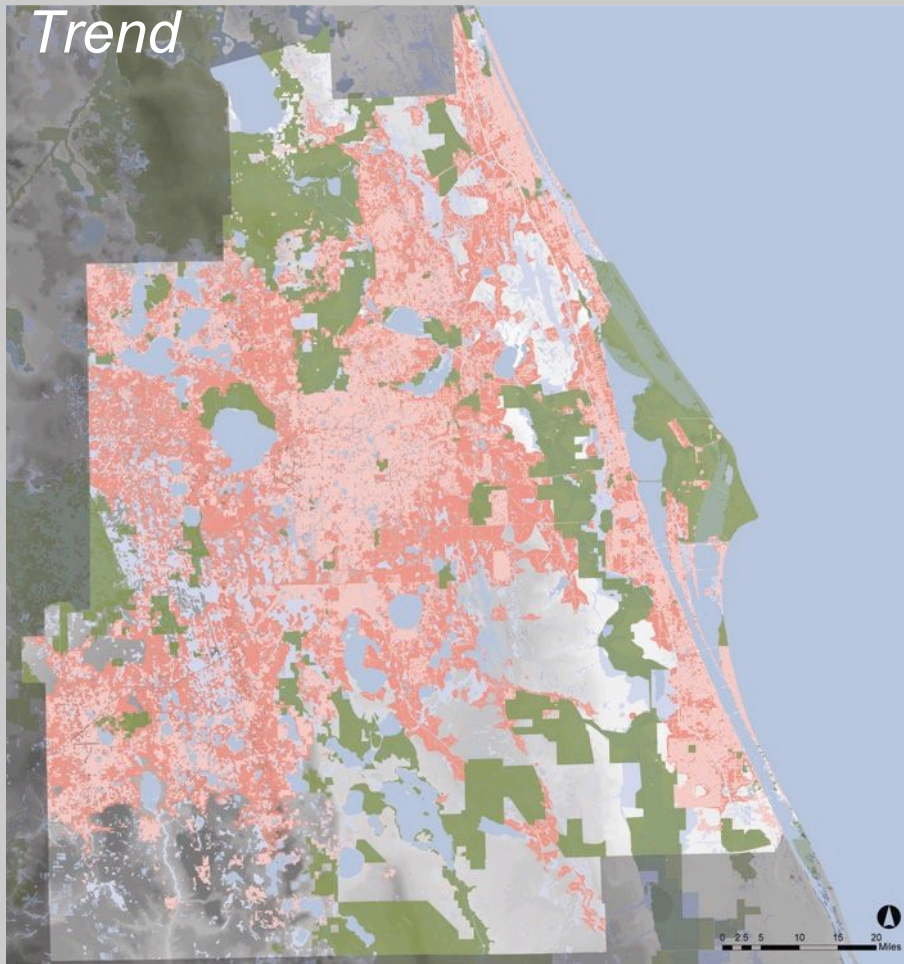
SEVEN COUNTY ORLANDO REGION

Phase IV: 2040



SEVEN COUNTY ORLANDO REGION

Phase V: 2050



SEVEN COUNTY ORLANDO REGION

Financing the Alternative Model

- The Alternative Model results in urbanizing only 420,410 new acres. At \$90,000 an acre that is 37.8 billion dollars, 66.9 billion less than the cost of urbanizing land in the Trend Model.
- 66.9 billion dollars can be considered the “budget” for financing the high-speed rail, transit systems, and land acquisition necessary to make the Alternative Model feasible

SEVEN COUNTY ORLANDO REGION

Costs of the Alternative Model

Cost	Acres	Cost/Acre	Total
Urbanization costs for new development	420,410	\$90,000	\$37.8 Billion
Infrastructure costs for redevelopment	328,904	\$20,000	\$6.6 Billion
Conservation land acquisition	724,429	\$25,000	\$18.1 Billion
High-speed rail, transit, freight, ferry			\$ 27.9 Billion
TOTAL COSTS OF ALTERNATIVE MODEL			\$90.4 Billion
TOTAL COSTS OF TREND MODEL			\$116.7 Billion

COST SAVINGS WITH ALTERNATIVE MODEL = \$26.3 BILLION
for a far superior form of development

SEVEN COUNTY ORLANDO REGION

FLORIDA IN THE 21ST CENTURY:

2020, 2040, 2060

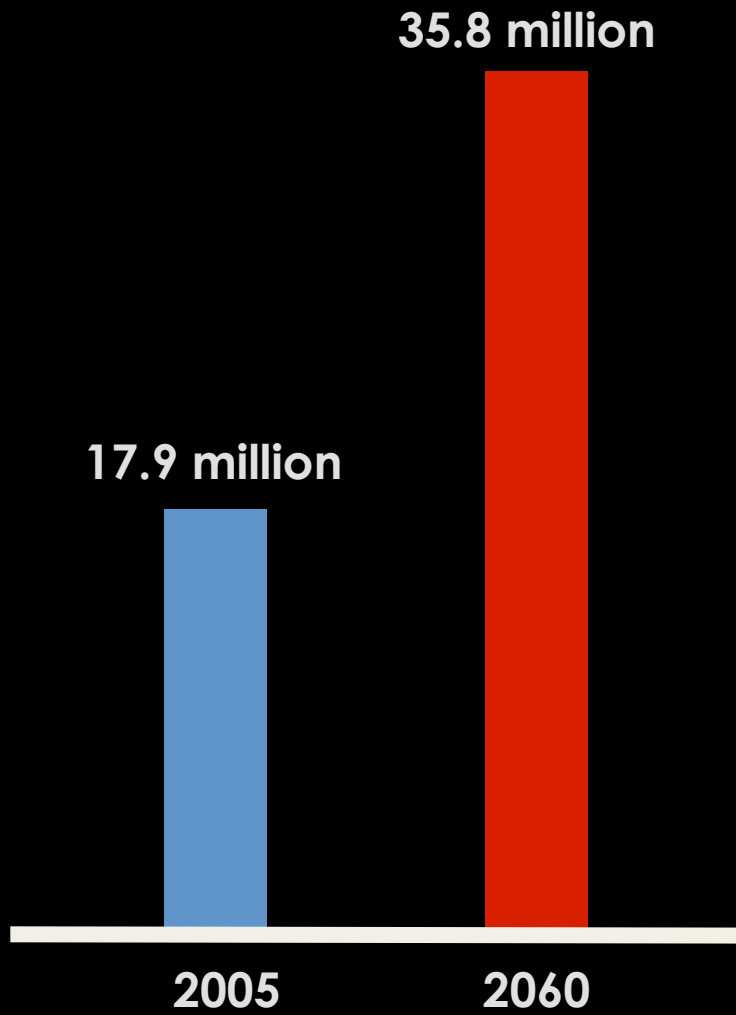
STUDIO LEADERS:

JONATHAN BARNETT
ANDREW DOBSHINSKY

STUDENTS:

BEVERLY CHOI
ALAN CUNNINGHAM
MELISSA DICKENS
JENNIFER DRIVER
LOKKAY FAN
JAIME GARCIA
NICOLE GIBSON
JENNIE GRAVES
MOLLIE HENKEL
SHEKOOFAH KHEDHRI
JENNIFER LAI
JASON LALLY
MARIE LEWIS
LORI MASSA
ALEXIS MELUSKY
LAURA OTTOSON

FLORIDA POPULATION PROJECTIONS

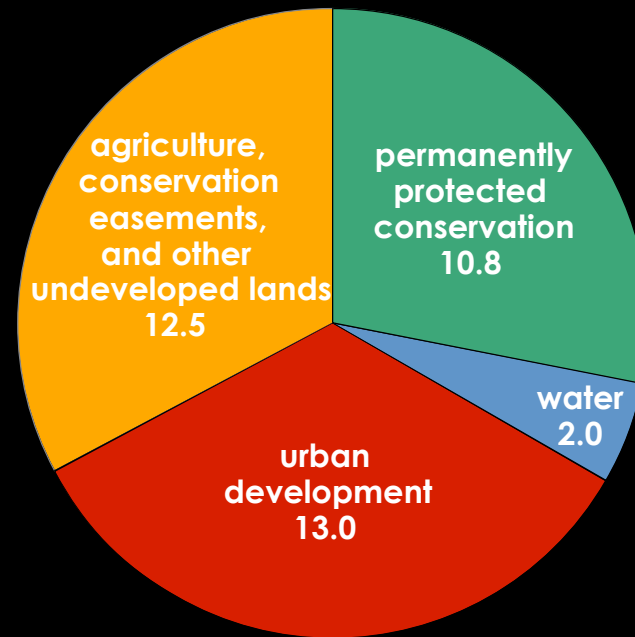
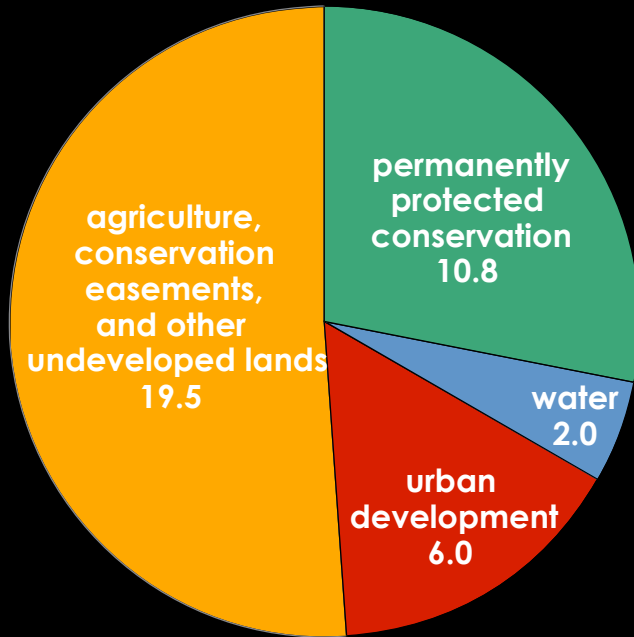


LAND ALLOCATION ACCORDING TO TREND

Statewide land use allocation (millions of acres)

2005

2060



Total land in Florida: 38.3 million acres



1

SAVING THE ENVIRONMENT FROM THE TREND

2

3

Habitat

4

Water

5

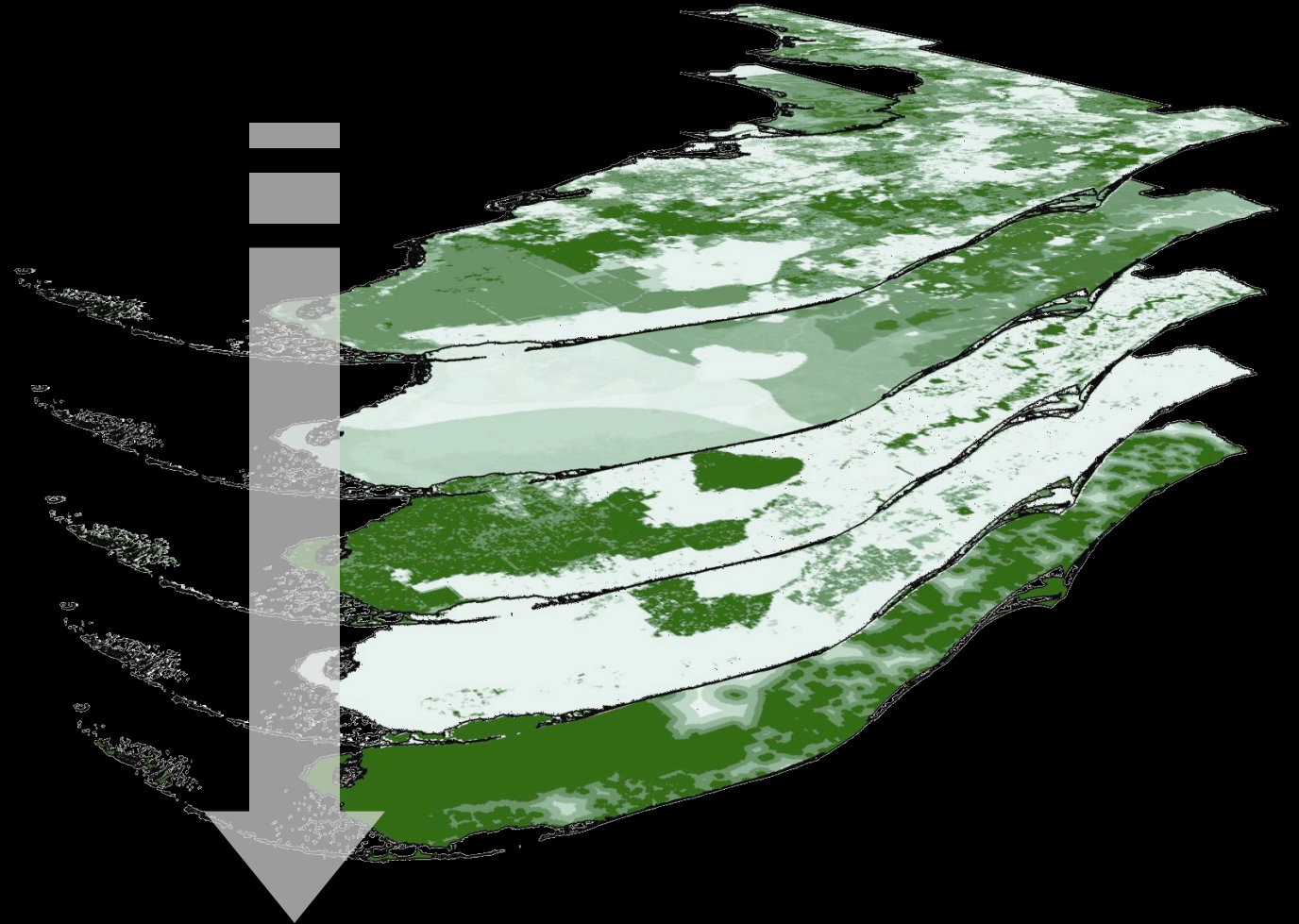
Wetlands

6

Agriculture

7

Contiguity



1

2

3

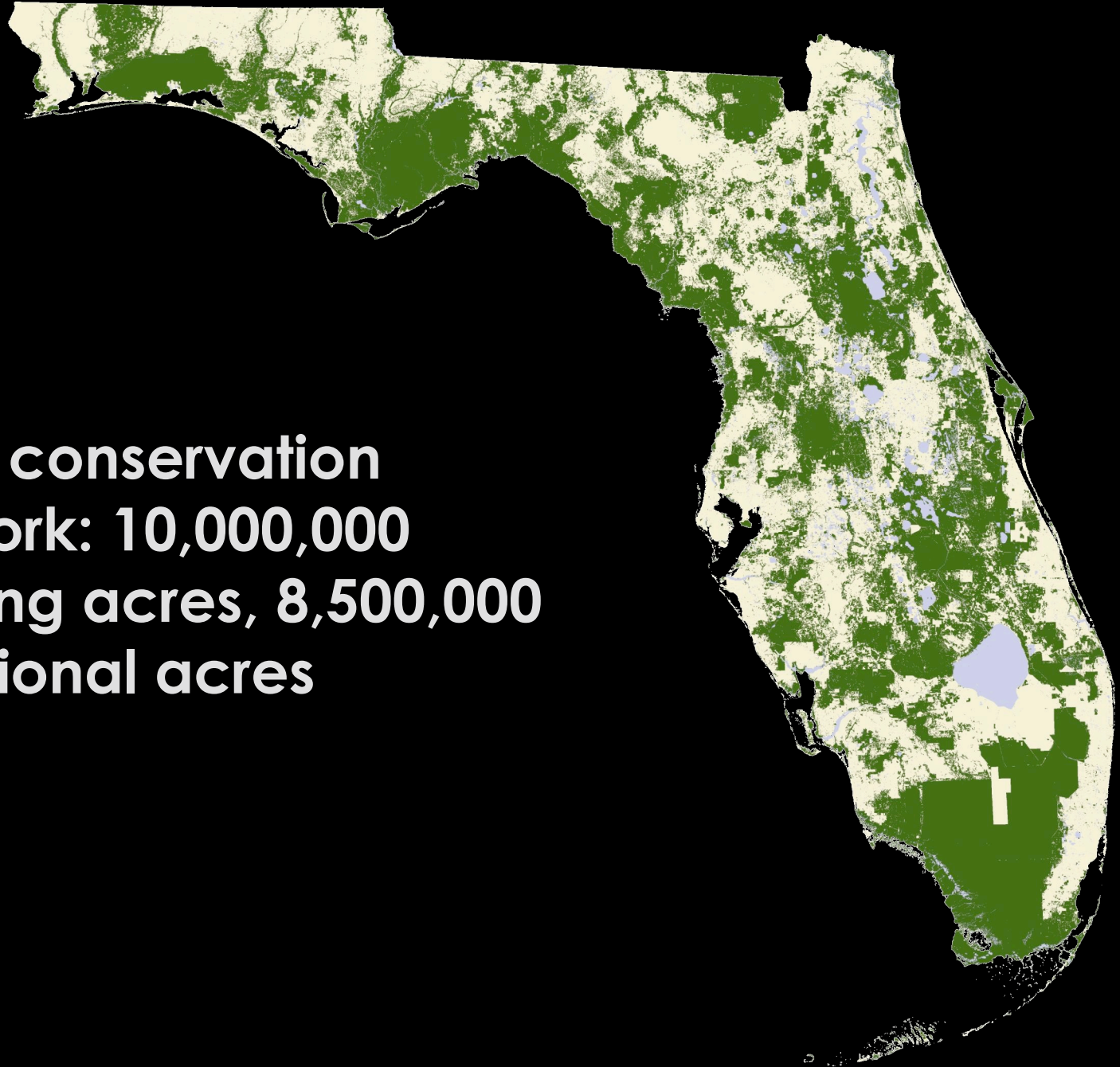
4

5

6

7

**ideal conservation
network: 10,000,000
existing acres, 8,500,000
additional acres**



1

2

3

4

5

6

7

high speed rail network and local transit phase 1: completed by 2020

LEGEND

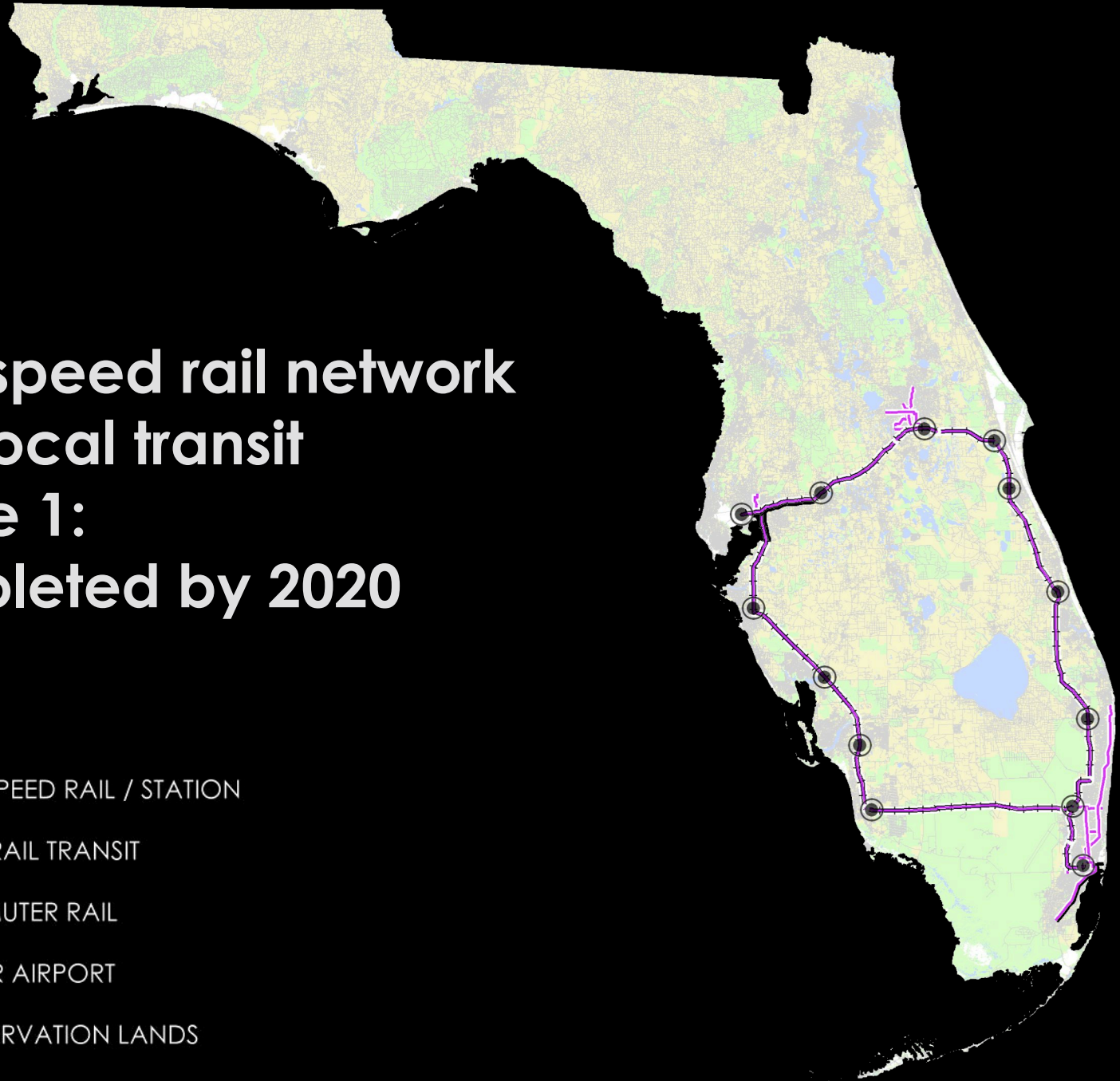
 HIGH SPEED RAIL / STATION

 LIGHT RAIL TRANSIT

 COMMUTER RAIL

 MAJOR AIRPORT

 CONSERVATION LANDS



1

2

3

4

5

6

7

high speed rail network and local transit phase 2: completed by 2040

LEGEND

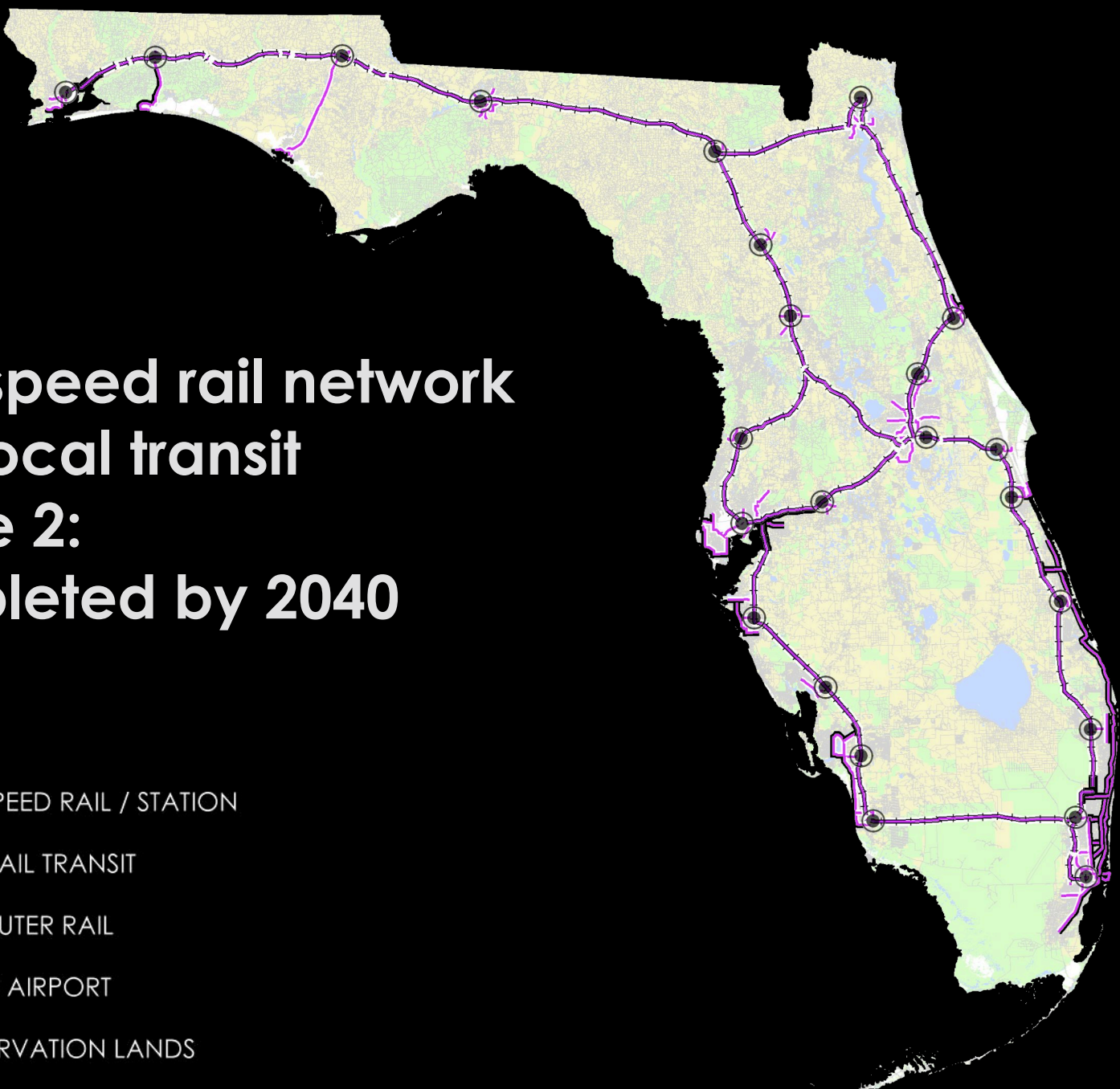
 HIGH SPEED RAIL / STATION

 LIGHT RAIL TRANSIT

 COMMUTER RAIL

 MAJOR AIRPORT

 CONSERVATION LANDS





PRINCIPLES FOR AN ALTERNATIVE FUTURE



- **Regional Planning**

Distributed population regionally and used average regional density



- **Protect Florida's Essential Land – Design with Nature**

Purchased highest priority lands for conservation so that lands could not be developed



- **Invest in Balanced Transportation**

Included transit corridors and nodes in development suitability



- **Plan for Climate Change**

Did not allow new development in 2060 sea level rise areas
Included changing coast line in development suitability layer



- **Don't Waste Land**

Regional densities increased to the state average if currently below

- **Encourage Compact Development – Rebuild to Create Great Places**

Increased densities in transit corridors and nodes

HOW THE COMPUTER MODEL WORKS

1. Mask:

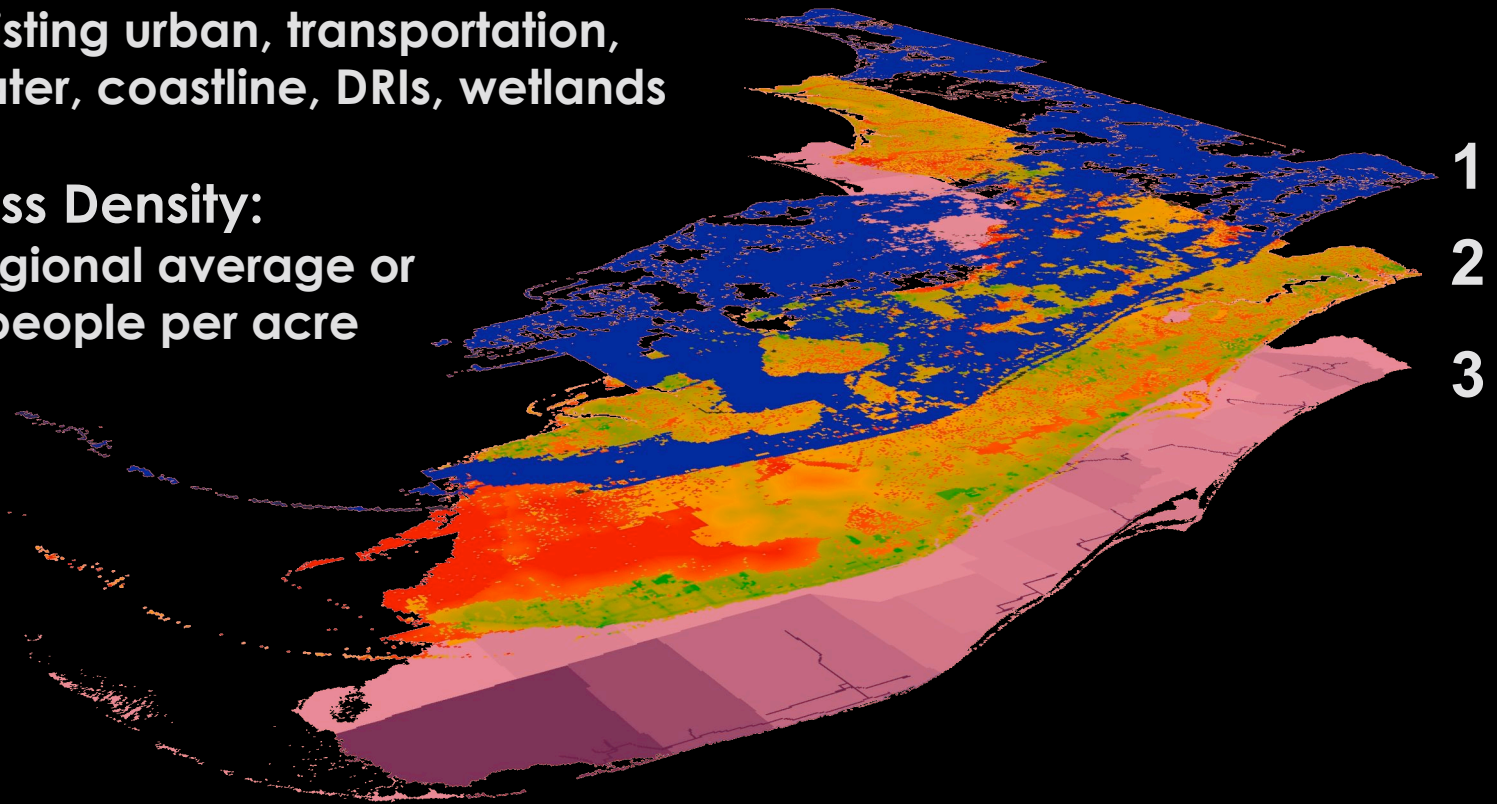
Existing urban outside of local transit,
protected land, water, sea level

2. Suitability:

Existing urban, transportation,
water, coastline, DRIs, wetlands

3. Gross Density:

Regional average or
3 people per acre



URBANIZED AREAS AS OF 2005

TREND

ALTERNATIVE



URBANIZED AREAS BY 2020

TREND

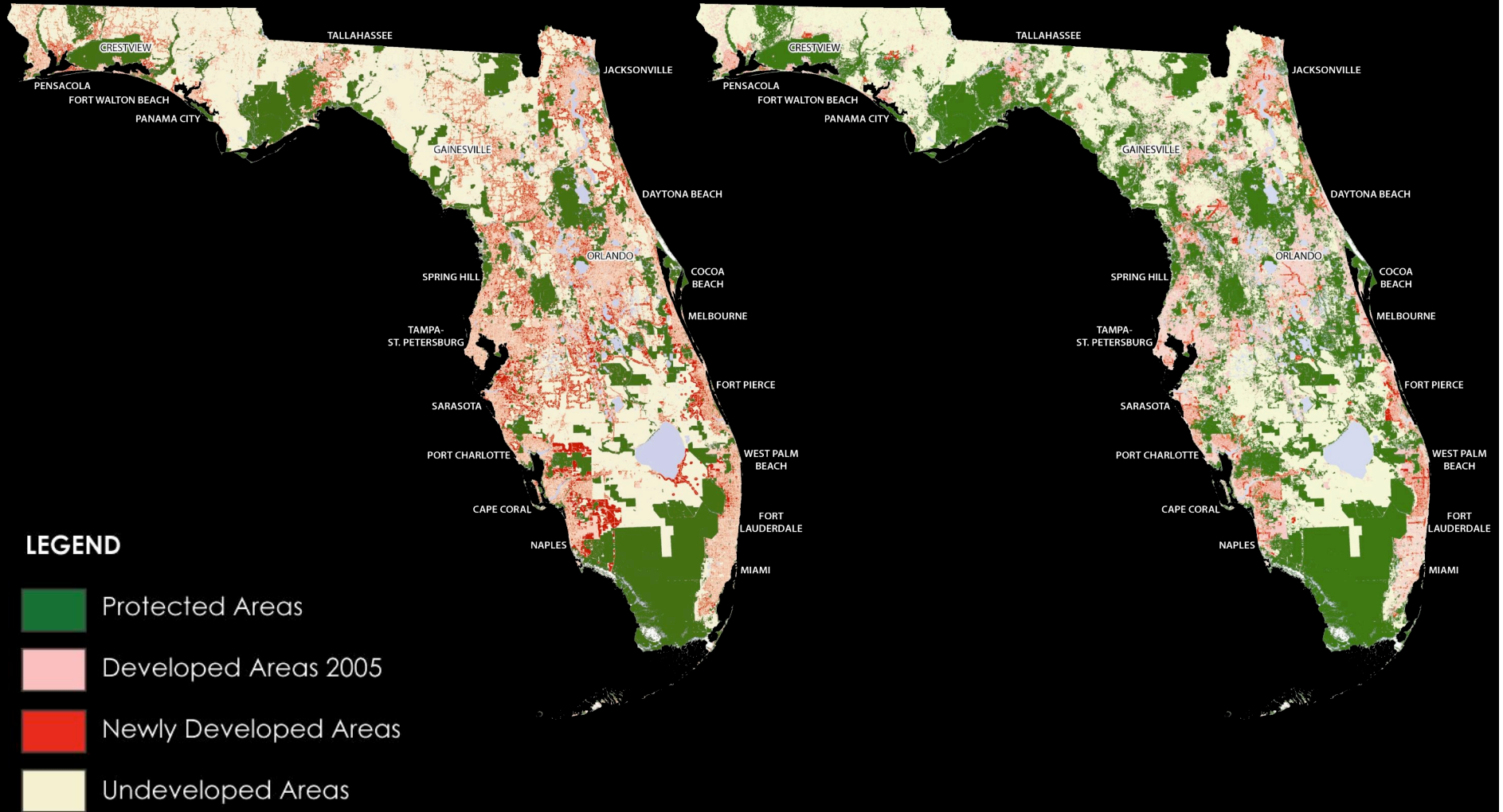
ALTERNATIVE



URBANIZED AREAS BY 2040

TREND

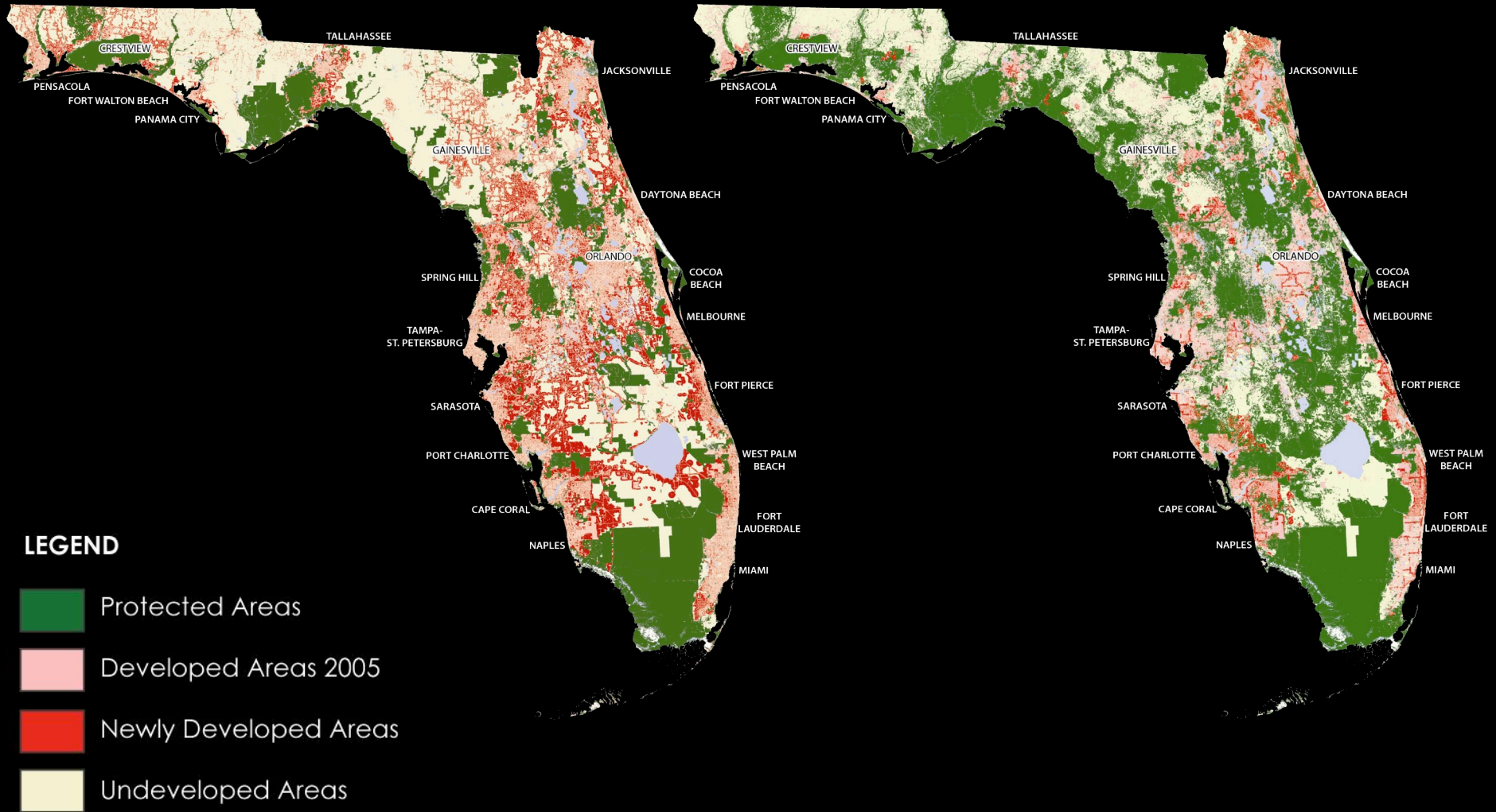
ALTERNATIVE



URBANIZED AREAS BY 2060

TREND

ALTERNATIVE



GROWTH DIAGRAMS: 2060

TREND



ALTERNATIVE





TAKING A CLOSER LOOK

WEST FLORIDA: 2005 EXISTING CONDITIONS

TREND

ALTERNATIVE



LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Undeveloped Areas

WEST FLORIDA: 2060 CONDITONS

TREND

ALTERNATIVE



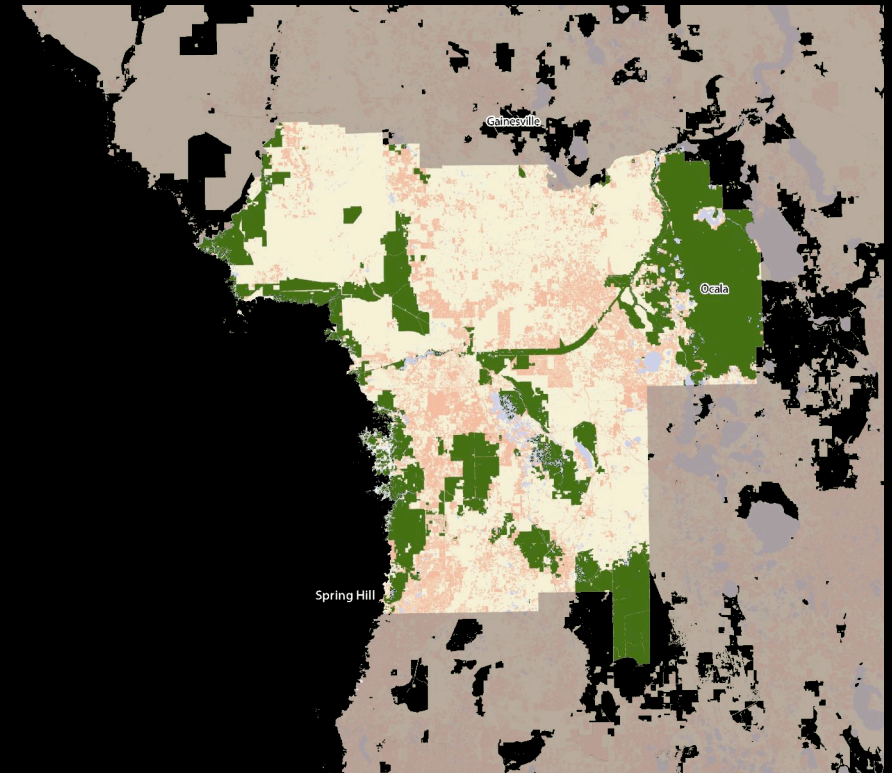
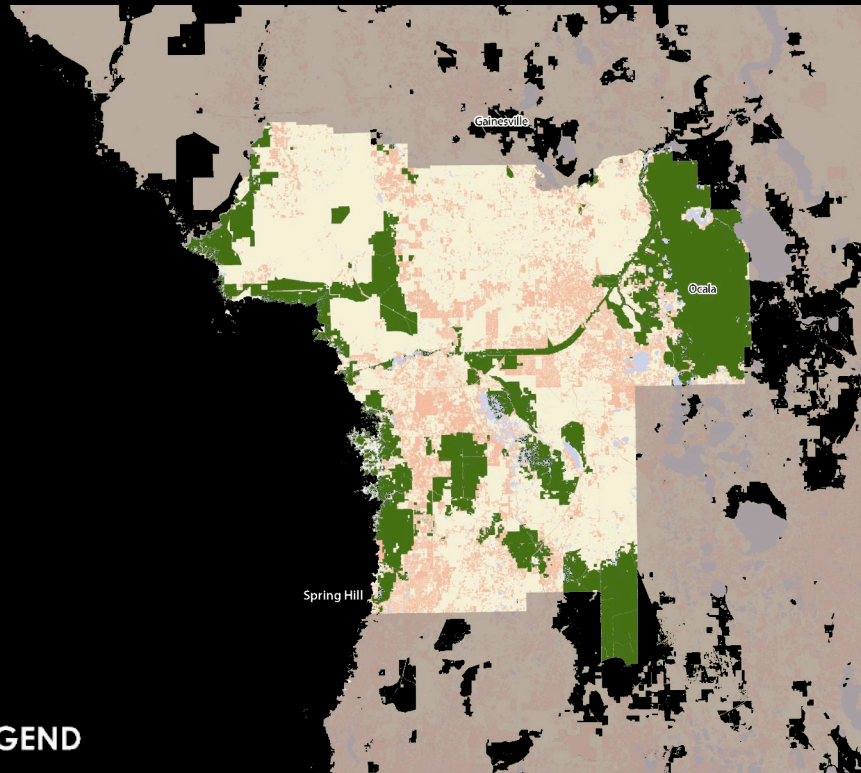
LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas
-  High Speed Rail Station
-  High Speed Rail
-  Local Transit
-  Sea Level Rise: 2060
(0.418m)

CENTRAL FLORIDA: 2005 EXISTING CONDITONS

TREND

ALTERNATIVE



LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Undeveloped Areas



Withlacoochee Region

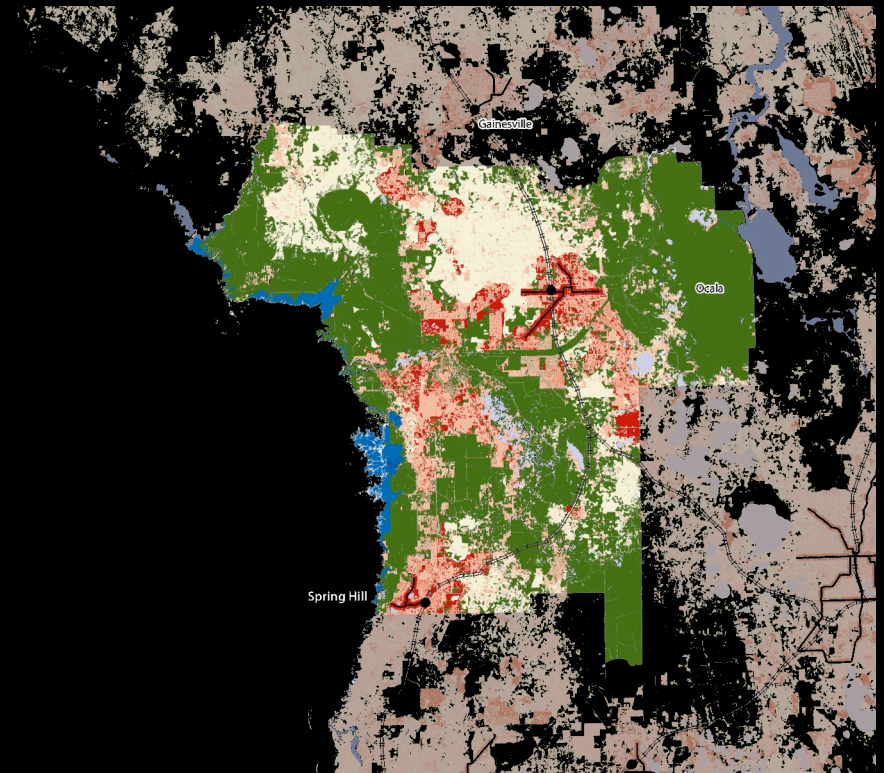
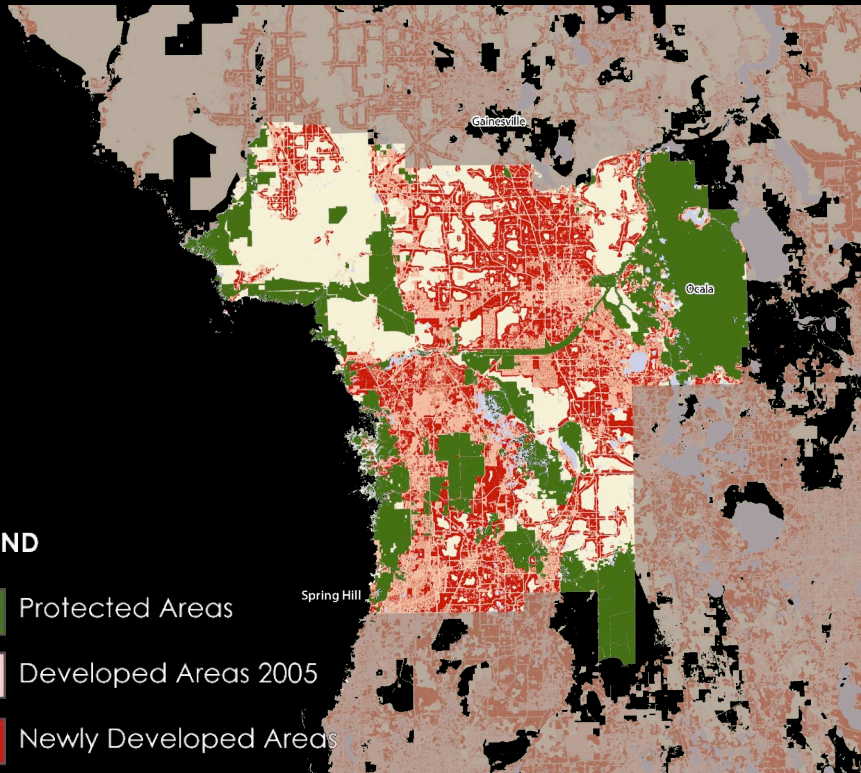
CENTRAL FLORIDA: 2060 CONDITONS

TREND

ALTERNATIVE

LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas
-  High Speed Rail Station
-  High Speed Rail
-  Local Transit
-  Sea Level Rise: 2060
(0.418m)

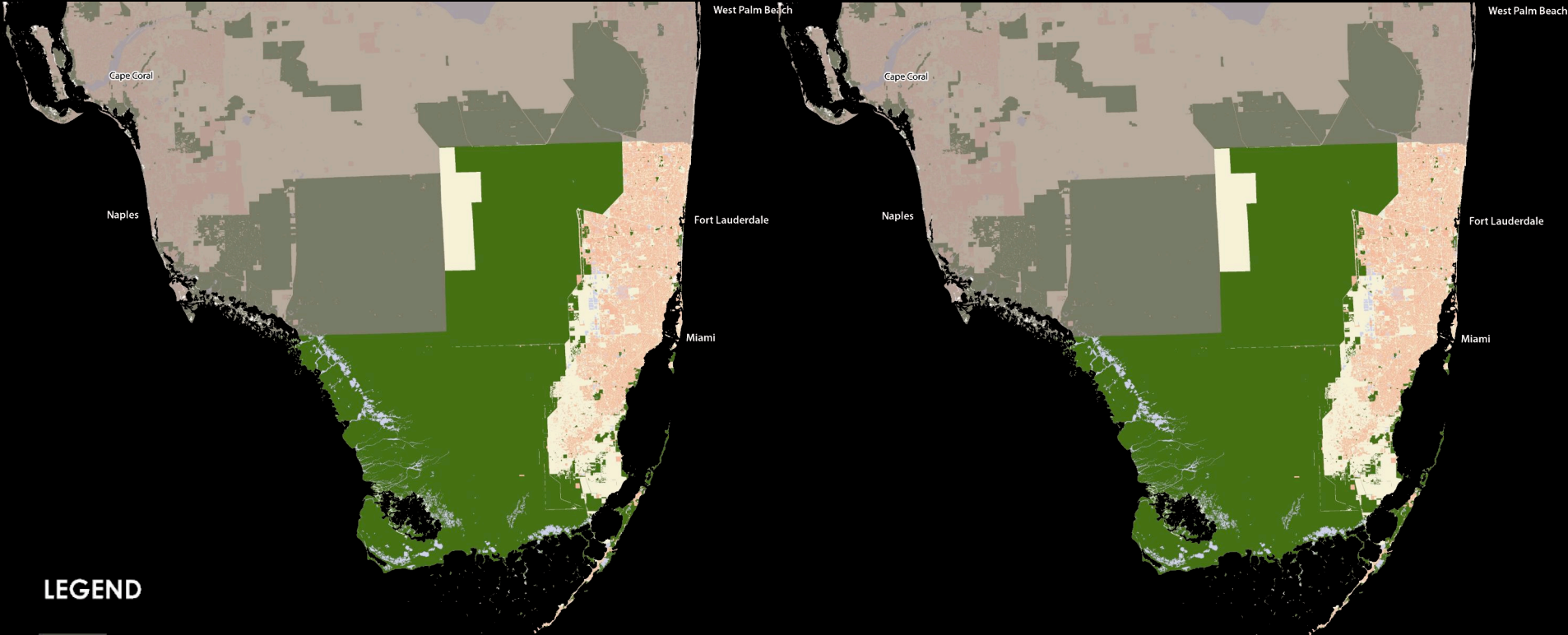


Withlacoochee Region




SOUTH FLORIDA: 2005 EXISTING CONDITIONS

TREND

ALTERNATIVE



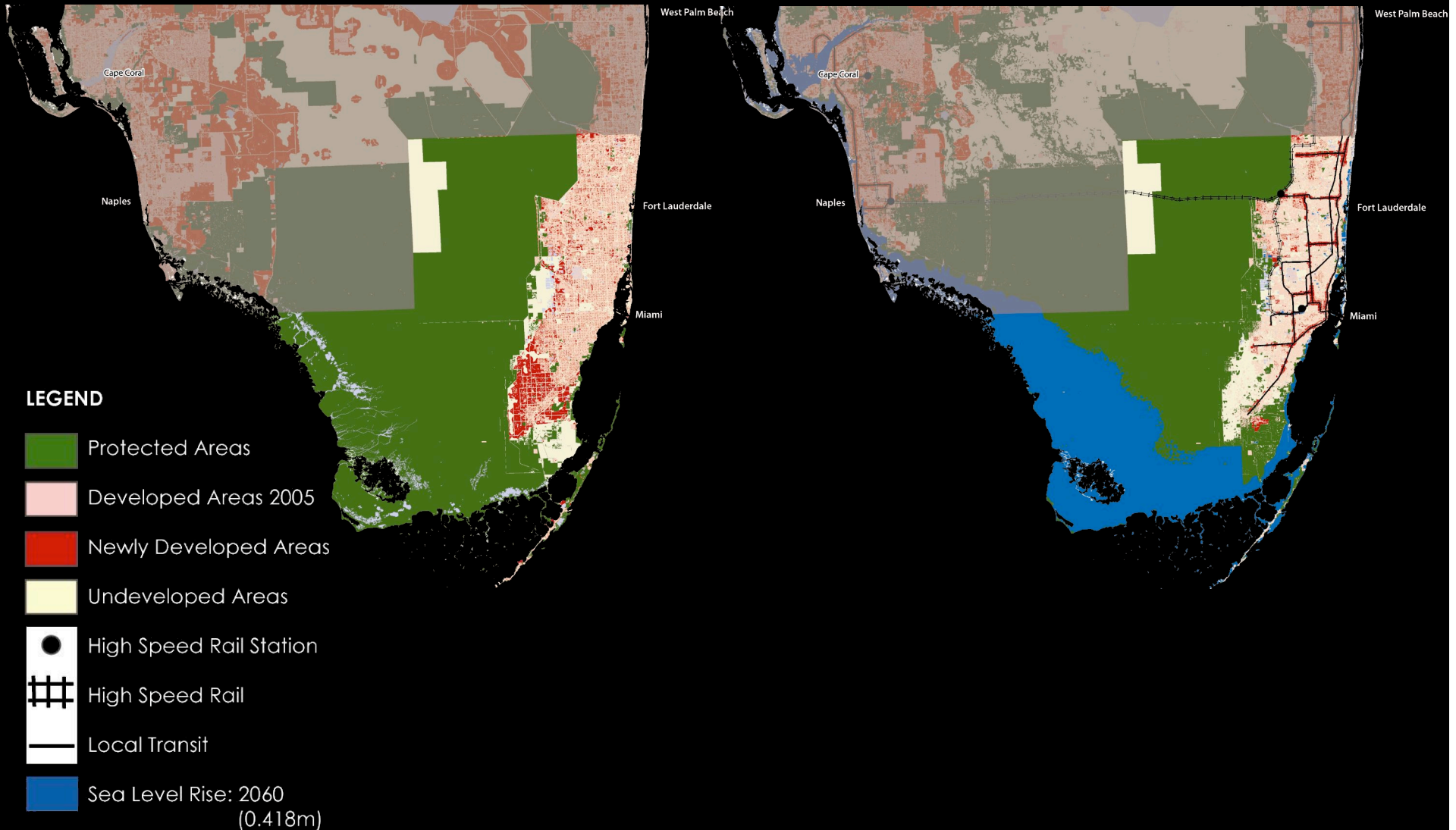
LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Undeveloped Areas

SOUTH FLORIDA: 2060 CONDITIONS

TREND

ALTERNATIVE





IMPLEMENTING THE ALTERNATIVE



BY 2020, Florida needs to:



- purchase 2.5 million acres of development rights at an average cost of \$10,000 an acre
- build 556 miles of high speed rail at \$30 million a mile
- build 743 miles of local transit at \$20 million a mile
- build 171 miles of regional rail at \$15 million a mile
- expand 1,068 miles of highway



Totaling ~\$70 billion to 2020, or \$5.3 billion a year



2020 Alternative

LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas





IMPLEMENTING THE ALTERNATIVE



BY 2040, Florida needs to:



- purchase the development rights to another 2 million acres of the highest priority conservation land, which we estimate will cost an average of \$21,000 an acre
- build another 754 miles of high speed rail
- build another 214 miles of local transit
- build another 32 miles of regional rail
- expand 351 miles of highway



Totaling ~\$67 billion to 2040, or ~\$3.6 billion a year





2040 Alternative

LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas





IMPLEMENTING THE ALTERNATIVE



BY 2060, Florida will have had to:



- purchase the development rights of an additional 4 million acres to secure the future of Florida's landscape, which will average ~\$33,000 in cost per acre



Totaling ~\$144 billion, or \$7.2 billion a year



2060 Alternative



LEGEND

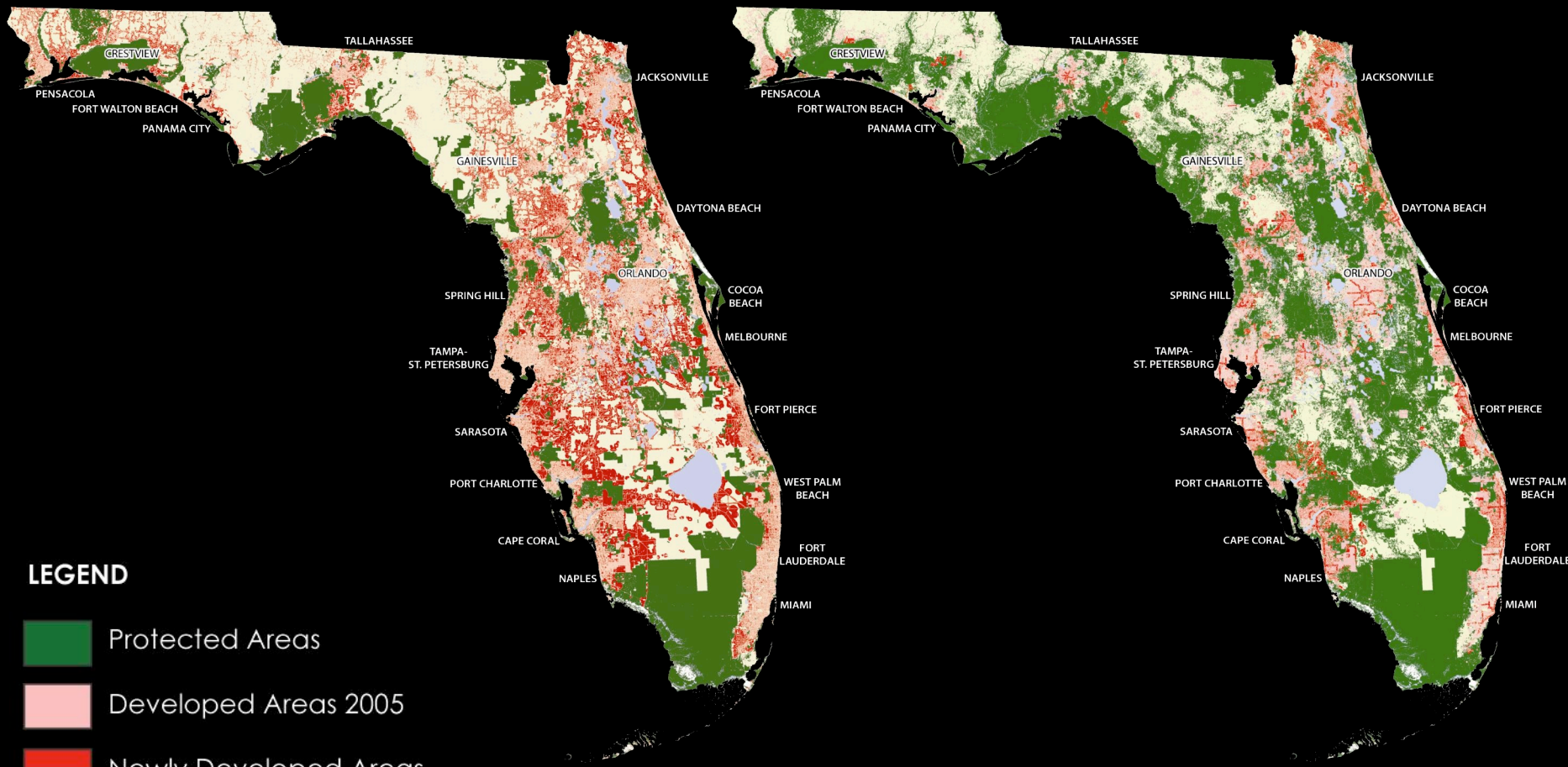
-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas



	TREND	ALTERNATIVE ✓
Land Development	\$700 BILLION	\$174 BILLION
New Acres Developed	7 MILLION	1.6 MILLION
Transportation Modes Offered	HIGHWAYS	HIGHWAYS + HIGH SPEED RAIL LOCAL TRANSIT
Highways	\$85 BILLION	\$21 BILLION
High Speed Rail and Local Transit		\$61 BILLION
Land Acquisition		\$203 BILLION
Highest Priority Conservation Land Saved	0 ACRES	8.5 MILLION ACRES

TREND

ALTERNATIVE



LEGEND

-  Protected Areas
-  Developed Areas 2005
-  Newly Developed Areas
-  Undeveloped Areas