

LAY OF THE
LAND[®]
C O N F E R E N C E

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LAND



LAY OF THE LAND[®]

C O N F E R E N C E

Unlocking Land Value Through Mining



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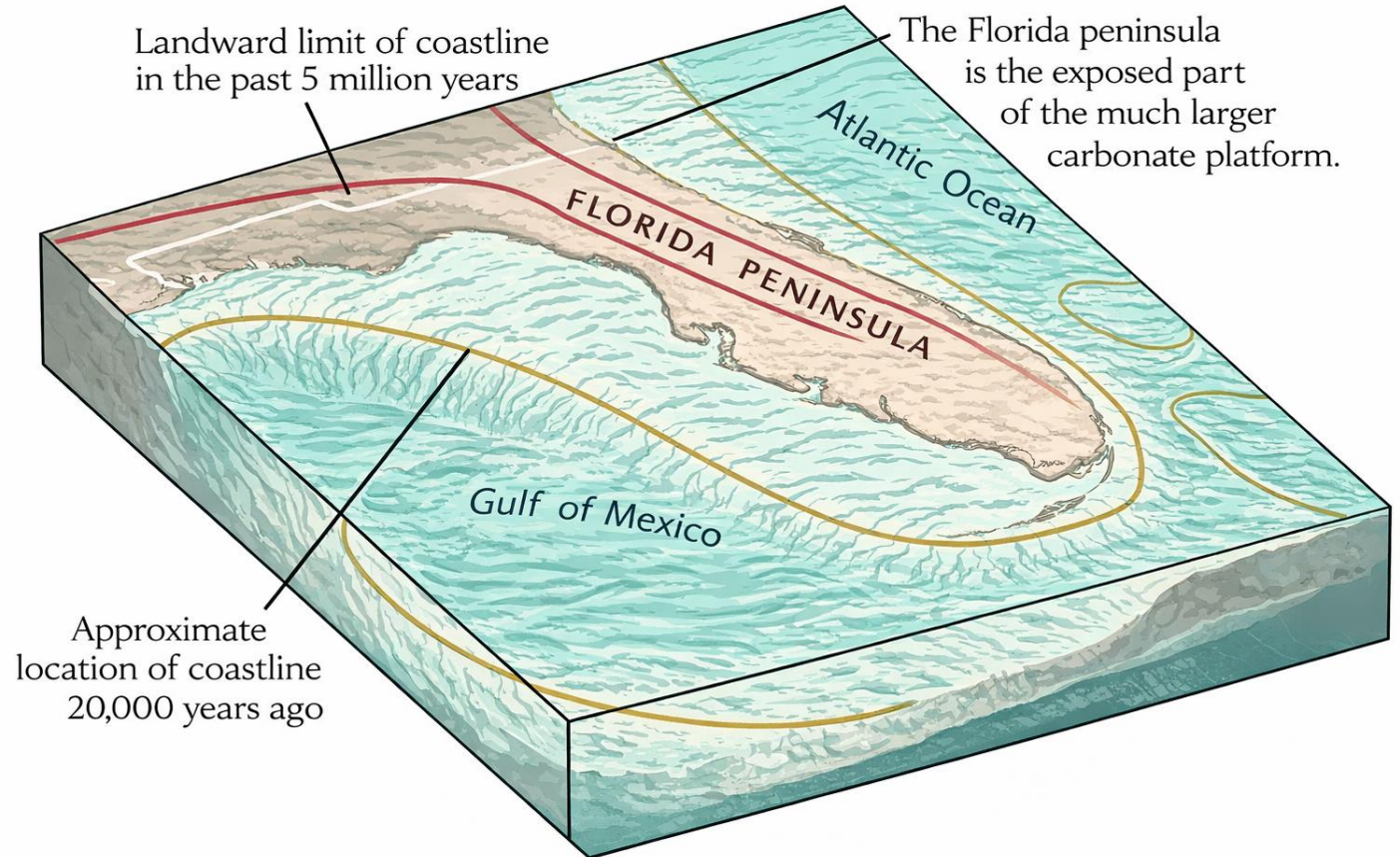
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Florida Aggregates & Your Land

Florida's Foundation

1. For most of the last 40–50 million years, the Florida Peninsula was submerged under a shallow tropical ocean.
2. Florida is unique from the rest of the continental US in the fact that instead of mountains and rivers building and shaping it, Florida was built by marine life.
3. Tiny shells, corals, and sea organisms piled up and hardened into limestone.
4. This limestone is the bedrock under most of Florida today.





APPALACHIAN MOUNTAINS

- **The Appalachian Mountains**

- Millions of years ago, rivers carried sand south from the Appalachian Mountains.
- That sand moved into what is now Georgia and Florida

- **Ancient Shorelines**

- Sea levels rose and fell many times during the Ice Ages.
- Every time the ocean moved, it left behind beach ridges and sand deposits.
- A lot of Central Florida sand was once coastline.
- That's why you find long sand ridges inland.

Sand Deposits
Carried South

SEDIMENT FLOW

Surface Geology

- **Most of Florida is sand-covered**

- Central and Northern regions dominated by sand and silt deposits

- **Limestone is widespread but often buried**

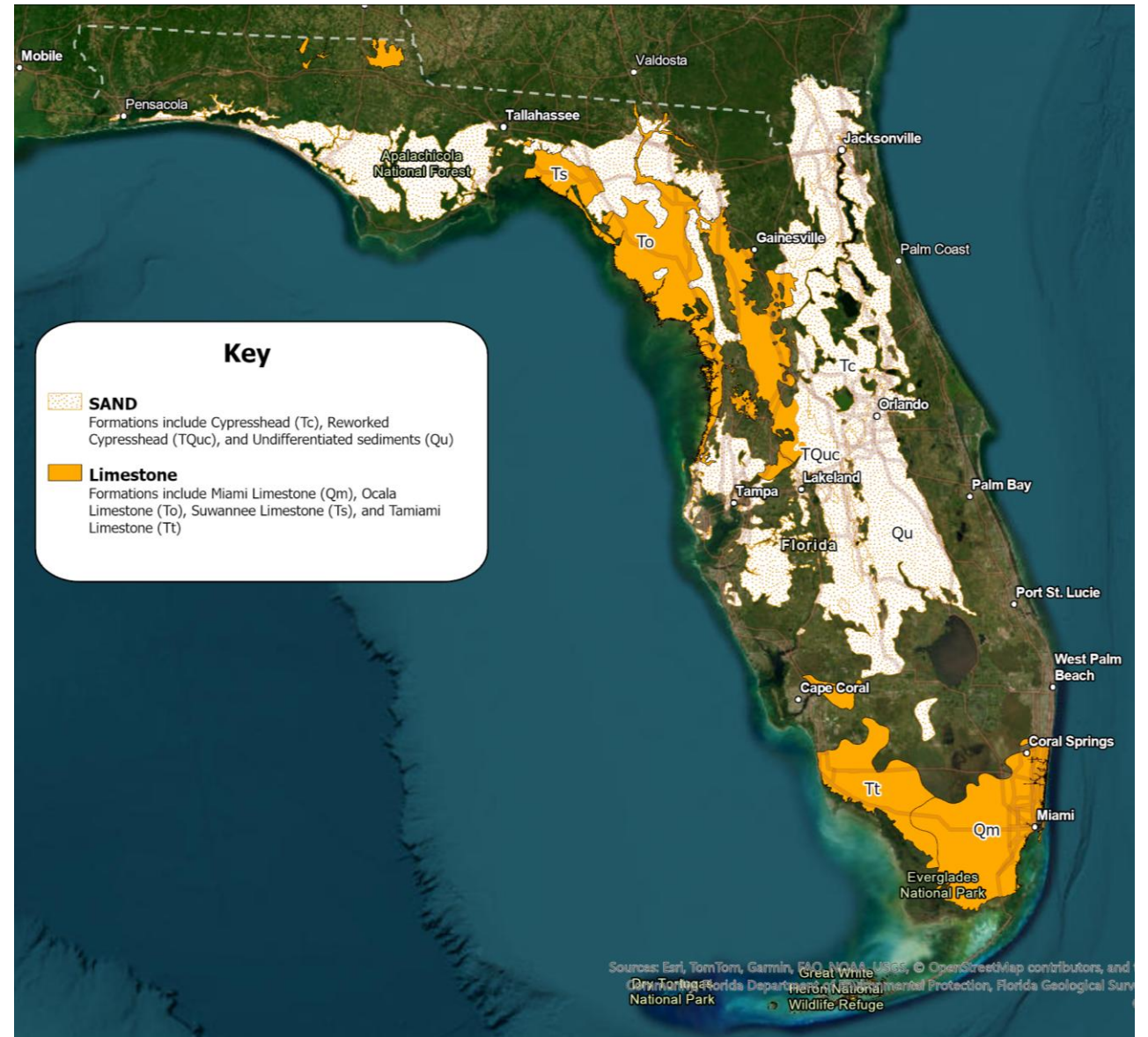
- Orange areas indicate exposed or near-surface carbonate rock
- Concentrated in South Florida, coastal belts, and karst regions

- **Big geological concept**

- Florida is fundamentally a limestone platform capped by sand

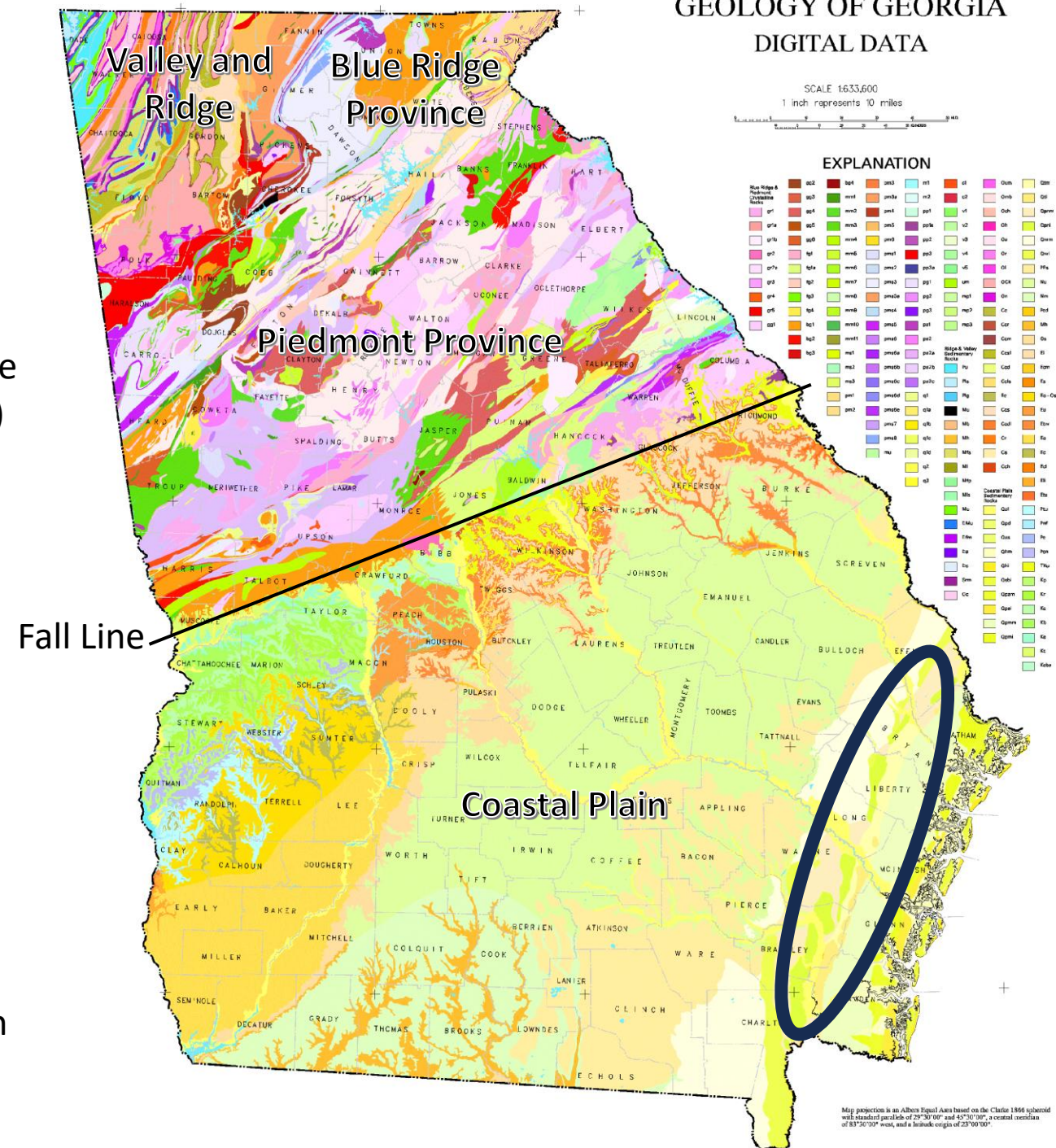
- **Resource insight**

- Best limestone access can be found in South Florida & the West-central belt
- Best sand deposits can be found along Florida's Central Peninsula & Ridge Systems



Surface Geology

- **Blue Ridge Province (NE)**
 - Old metamorphic mountain rocks (gneiss, schist, quartzite)
 - **Aggregates:** Crushed stone (high-strength), Quartzite riprap, Limited sand/gravel (mostly stream deposits)
- **Valley and Ridge (NW)**
 - Folded sedimentary rock belts
 - **Aggregates:** High-quality limestone, Dolomite, Sandstone, and Agricultural lime
- **Piedmont Province (Central)**
 - Weathered crystalline bedrock covered by thick residual soils (red clay)
 - **Aggregates** Crushed Granite stone and Construction sand from streams
- **Coastal Plain (Southern)**
 - Young sediments consisting of sand, clay, marl and shell beds
 - Aggregates:** Construction sand, Gravel lenses, Kaolin clay and Minor limestone at depth



What are Aggregates and Why are They Important ?

- **Sand and Gravel** are the bulk materials in construction!
 - Concrete is 70%-85% aggregate by weight.
- Aggregates are **essential** to Florida's economy and infrastructure
- **Aggregate uses**; Roads, Bridges, Impoundments, Drainage, Housing, Beach Renourishment, Coastal Infrastructure
- Sand is the **Second** most consumed natural resource on the planet!



What is “Good” Sand?

- Commercial Grade sand is all about Consistency!
 - Grain Size Distribution
 - Low Organic Content
 - Particle Shape
 - Color
- Most sand throughout the state does not meet FDOT requirements



What is “Good” Limestone?

- For construction, good limestone is rock that is:
 - Strong – high density with low porosity
 - Clean – little to no clay or soft layers
 - Consistent Deposit – same quality across the property
 - Workable Deposit – thick enough and shallow enough to mine economically



The Next Steps

- Initial Property Evaluation
 - Property size and location
 - Regional geology
- Field Exploration
 - Prospecting to determine reserve depth/thickness and overburden conditions
- Laboratory Testing
 - Grain size distribution
 - Clay and silt content
- Feasibility Assessment
 - Environmental and permitting factors
 - Operational practicality
 - Accessibility



Agencies Involved in the Permitting Process

- Board of County Commissioners (BOCC)
- Florida Department of Environmental Protection (FDEP)
- Army Corps of Engineers (ACOE)
- Water Management District (SWFWMD, SJRWMD, SFWMD, etc.)
- Wildlife Agencies (USFWS, FWC)
- County Health Department

Questions?



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Upcoming Conferences

Columbus, Georgia – April 23, 2026
Georgia and Alabama Market Focus

Little Rock, Arkansas – November 4, 2026
Arkansas Market Focus

Atlanta, Georgia – April 19-21, 2027
National Summit • Regional Market Focus