FDOT TRANSPORTATION SYMPOSIUM 2019

Accessing the Statewide Soil Borings GIS Database

Larry Jones and Jared Causseaux

FDOT GIS Soil Boring Database

- Purpose
- Background
- Who
- What it does
- How to find it

Purpose

- Create a database on the FDOT website to make soil borings performed for projects available for quick and easy access.
- Soil boring locations and results are available to other FDOT offices, Consultants, University Researchers and the public.
- Make full geotechnical reports available to FDOT personnel via a secure environment.

Background

- A previous attempt for UF to create a state-wide geotechnical database was spearheaded by Peter Lai in the 90's.
- Entering data into the Oracle database was not simple, and the need for qc was extensive.
- 4 District Geotechnical Offices (1/7, 2, 4/6 & 5) independently began their own active effort to keep soil boring results in their own GIS databases.
- A portion of District Five's database was available to the public through the FDOT website, whereas, the other three databases were only accessible internally to District personnel.

District & Central Office Input

District	Geotechnical	GIS
1/7	Keith Ellis Kisan Patel	Kyle Purvis
2	Jamie Rogers Jimmy Williams Rhonda Hale	Katrina Sadler
3	Gabe Camposagrado David Whittington	
4/6	Nitan Dave Michael Kim	Amber Hyer Thomas Gates
5	Kevin Hayden Frank Smith	Joe Duncan Lora Castelnovo
Tpk	Roger Gobin	
CO	Larry Jones David Horhota	Jared Causseaux Daniel Teaf Vaishali Sonawane

Soil Borings Application

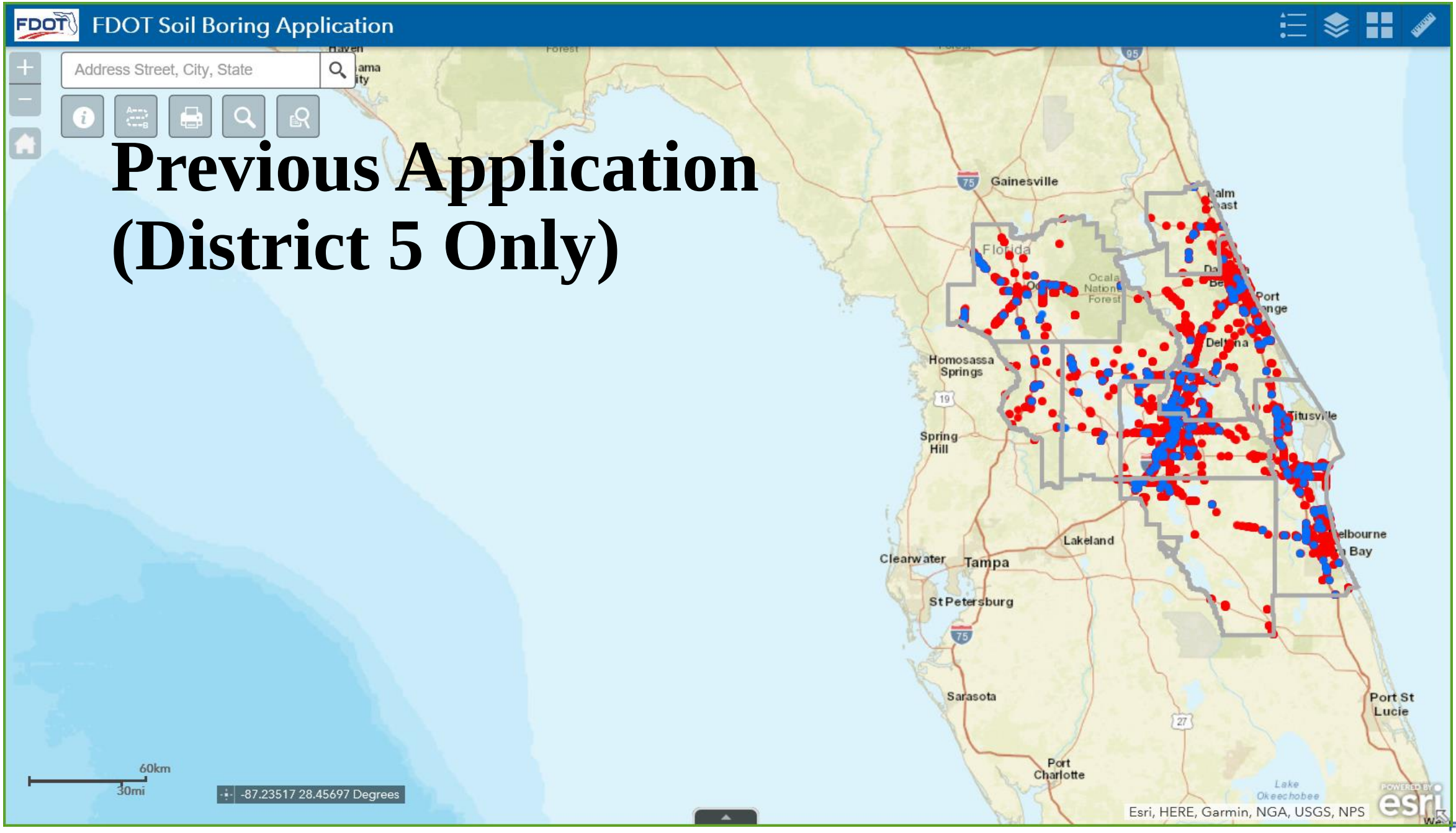
- One map displays data from all Districts, however, the data displayed is reviewed and authorized by each District independently.
- Consultant data entry has been part of the Scope in most of these Districts using a District specific system.
- Consultants will transition to a common data entry spreadsheet with common column headings, but not every District will use every column.

Soil Borings Application

- Soil info downloadable via PDF includes:
  - Location Plan
  - Soil Profiles
- PDF file created by Geotechnical Consultant is excerpt of the Report of Core Borings Sheets taken from the Geotechnical Report for Electronic Delivery

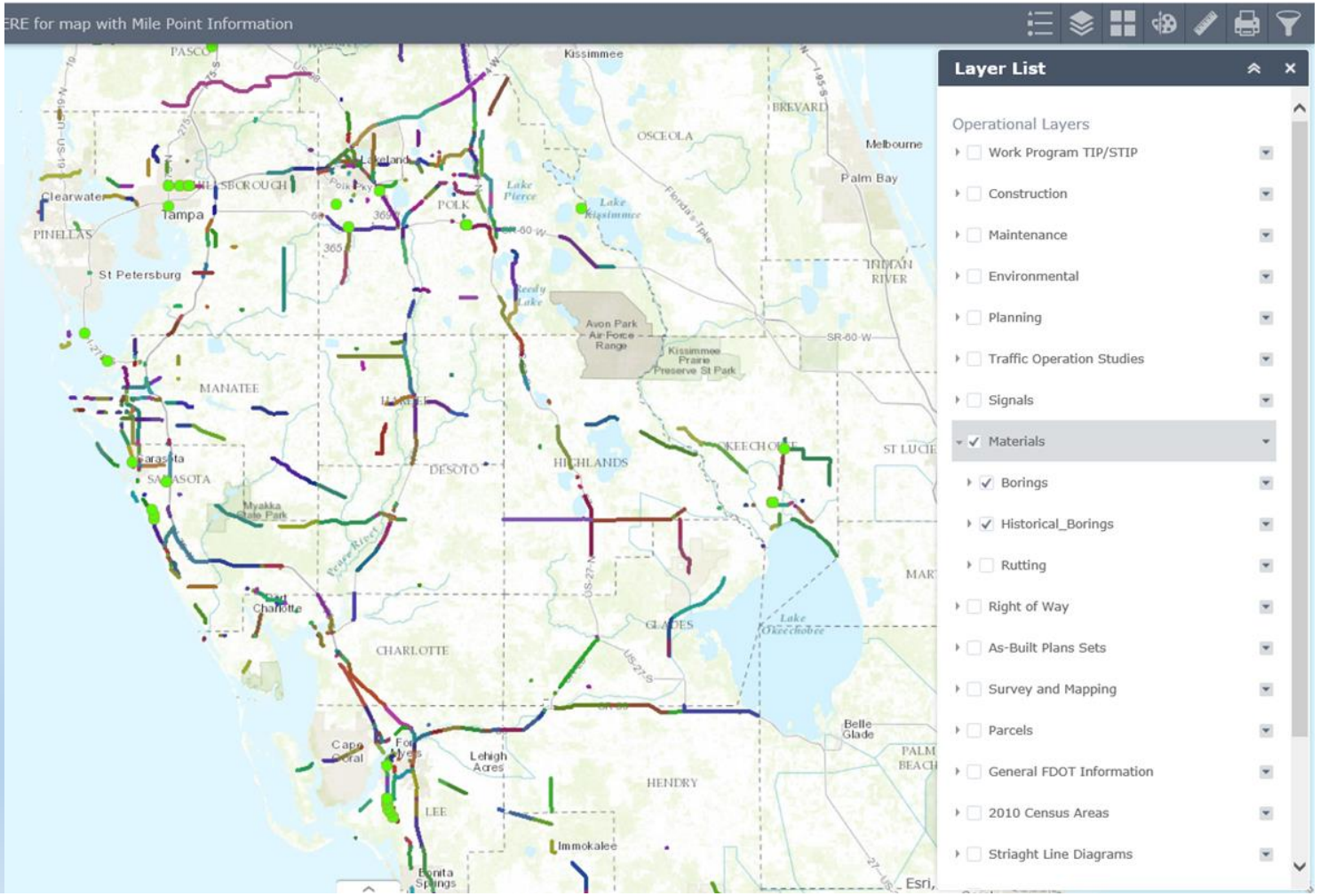
Soil Borings Application

- Some of us would like to add:
  - Table of Lab Test Results
  - Locations of Extensive Rutting
  - Other various soils information
  - Links to sheets for the whole project rather than 1 sheet at a time.


FDOT Soil Boring Application
Address Street, City, State
Previous Application
(District 5 Only)
Gainesville
Florida
Ocala National Forest
Homosassa Springs
Spring Hill
Lakeland
Clearwater
Tampa
St Petersburg
Sarasota
Port Charlotte
Port St Lucie
Lake Okeechobee
60km
30mi
-87.23517 28.45697 Degrees
Esri, HERE, Garmin, NGA, USGS, NPS

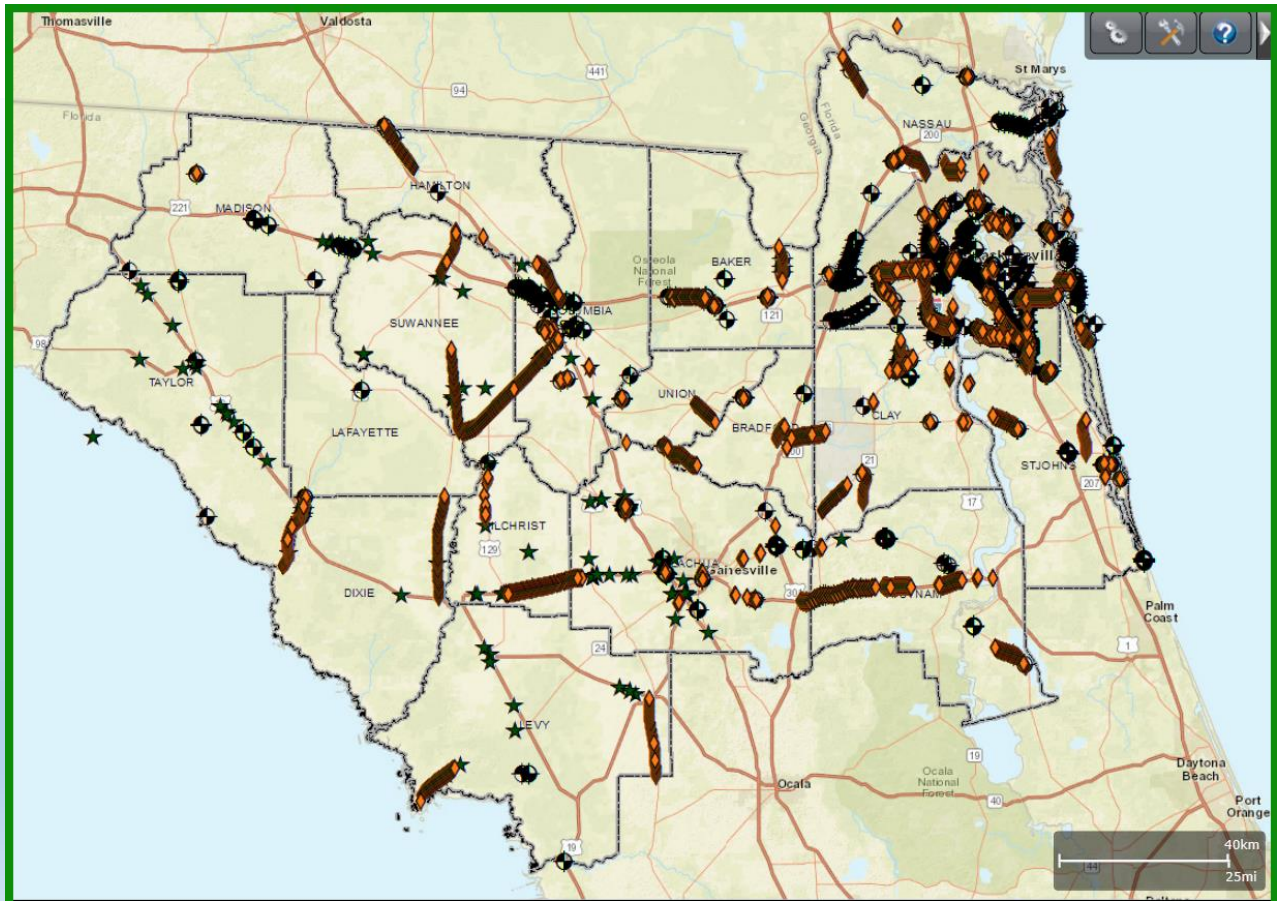
Districts 1 & 7 SharePoint

- Borings
- Historical Borings
- Rutting



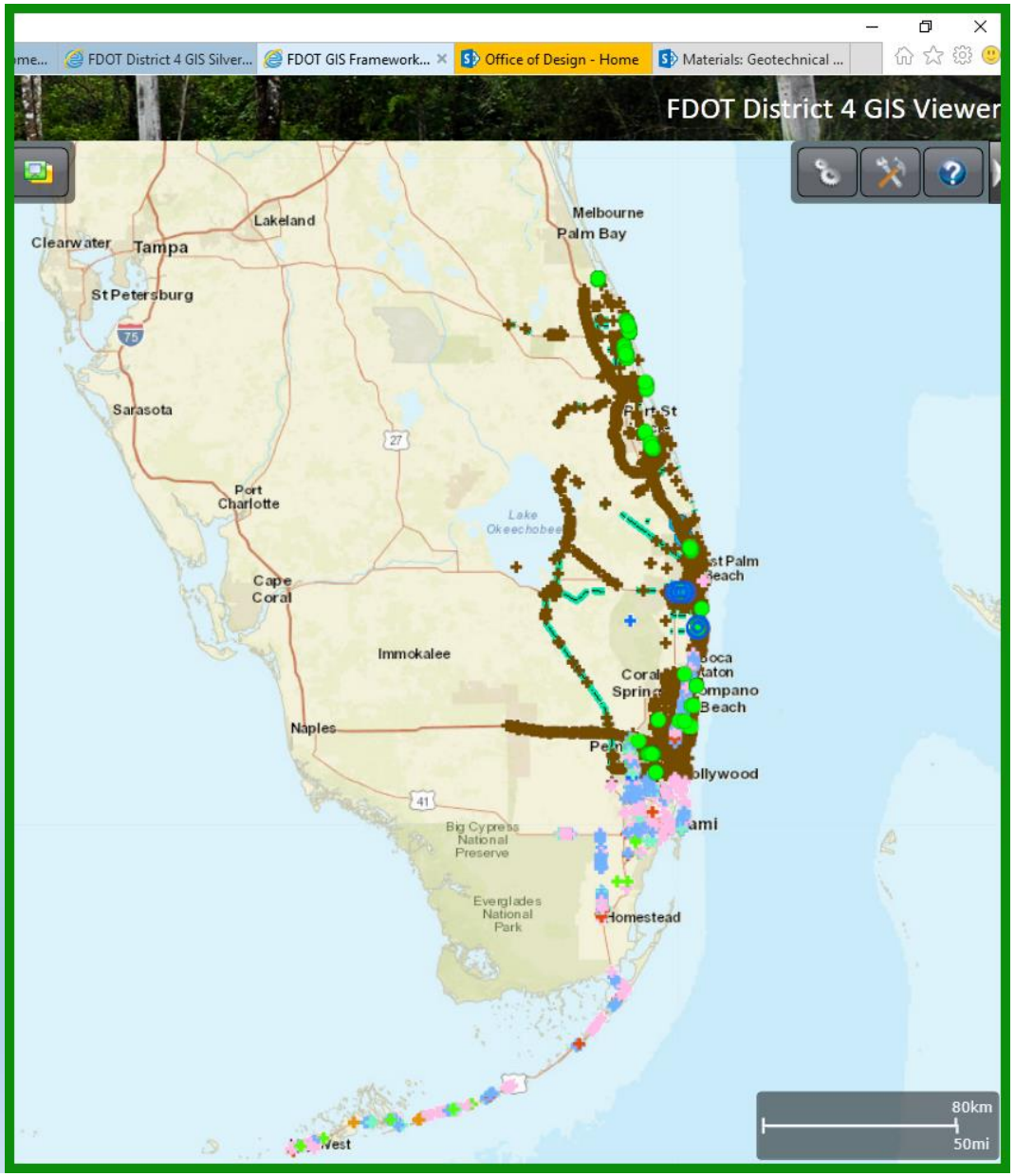
District 2 SharePoint

- SPT Borings
- Auger Borings
- CPT Soundings
- Mapped Sinkholes
- Vibration Sensitive Roadways

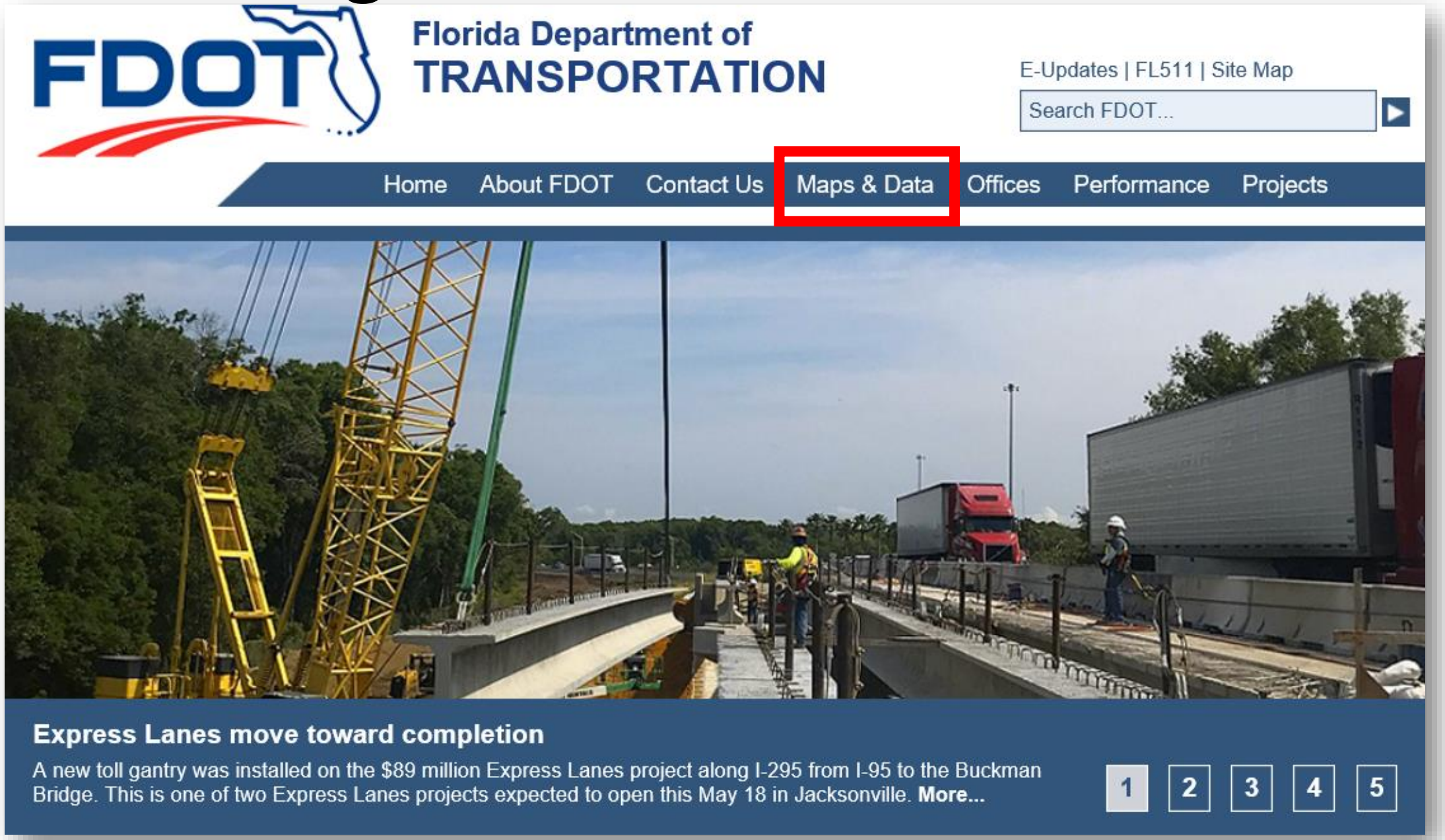


District 4 & 6 SharePoint

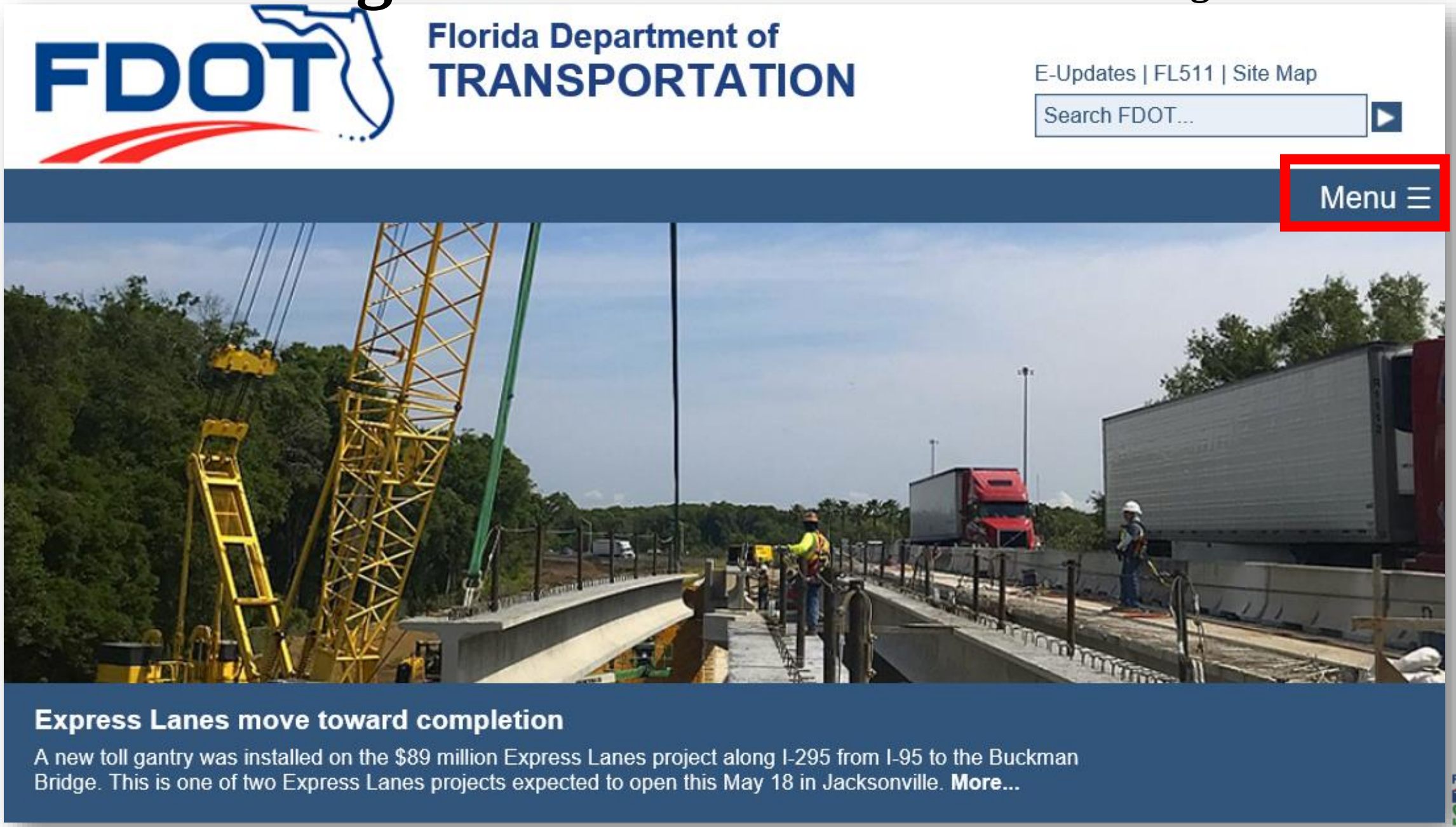
- SPT Borings
- Auger Borings
- Soundings
- Double Ring Infiltration
- Resilient Modulus
- Pavement Cores
- Corrosion Tests



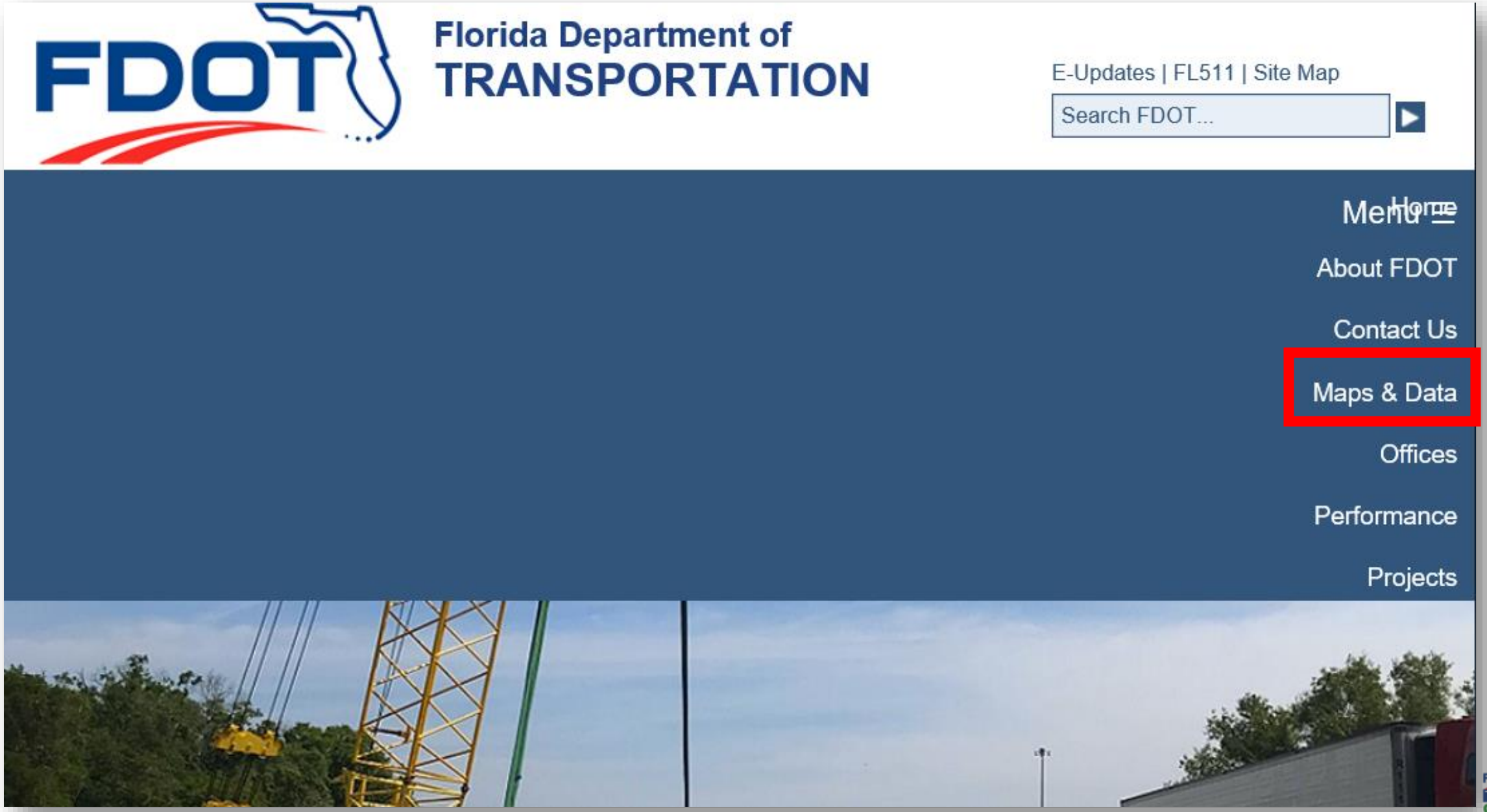
Accessing the New Database [www.fdot.gov]



Accessing the New Database [www.fdot.gov]



Accessing the New Database [www.fdot.gov]



Accessing the New Database [www.data.fdot.gov]

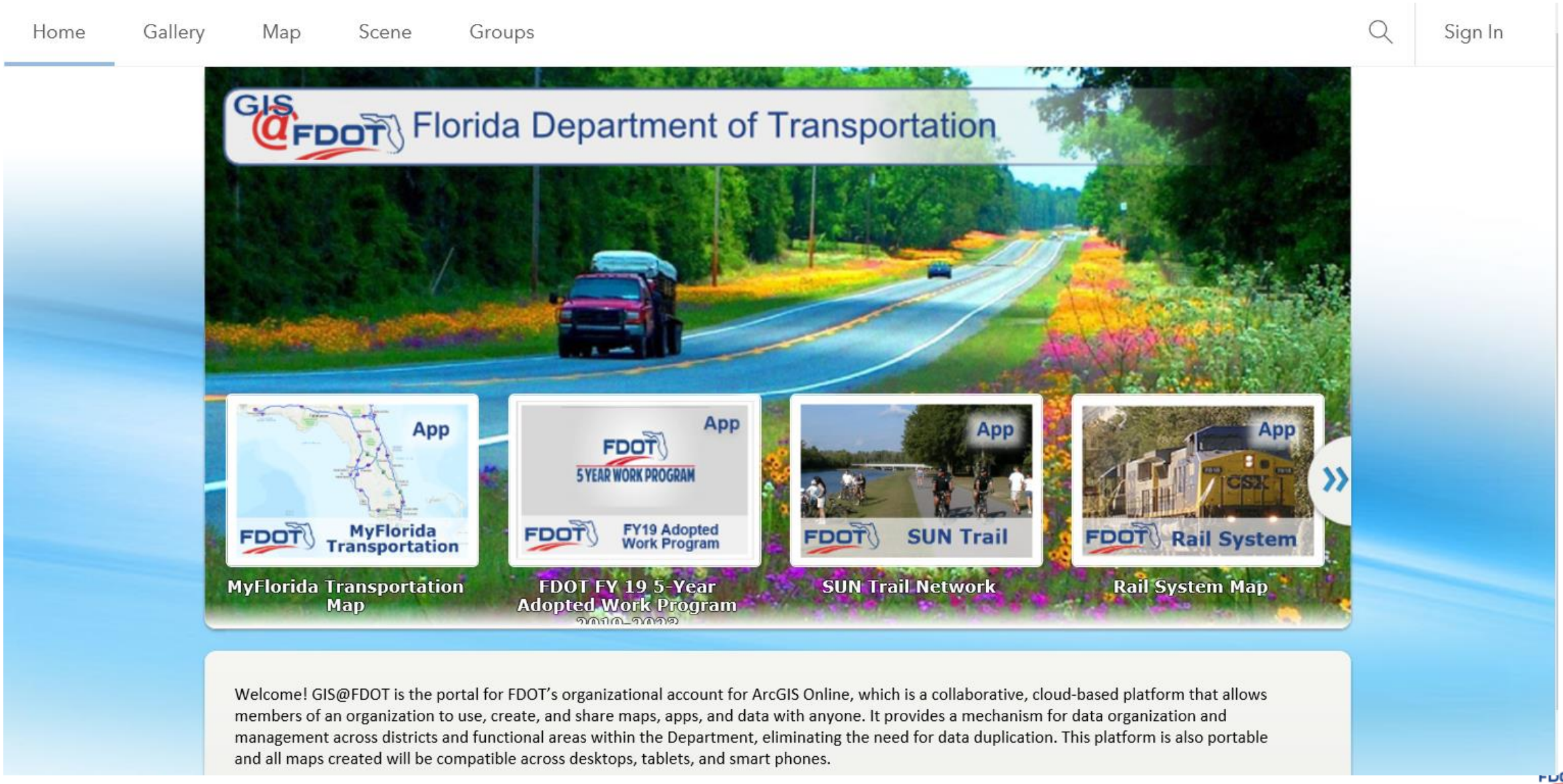
The **Transportation Data Portal** is a platform for locating data related to the core mission of the Florida Department of Transportation (FDOT). The department's primary statutory responsibility is to coordinate the planning and development of a safe, viable, and balanced state transportation system serving all regions of the state, and to assure the compatibility of all components, including multimodal facilities. This online resource can be used to explore and download open geospatial data; analyze and combine open datasets using maps; develop new web/mobile applications and more.

Aerial Photography | Apps | GIS@FDOT | Open Data Hub | Traffic | More...

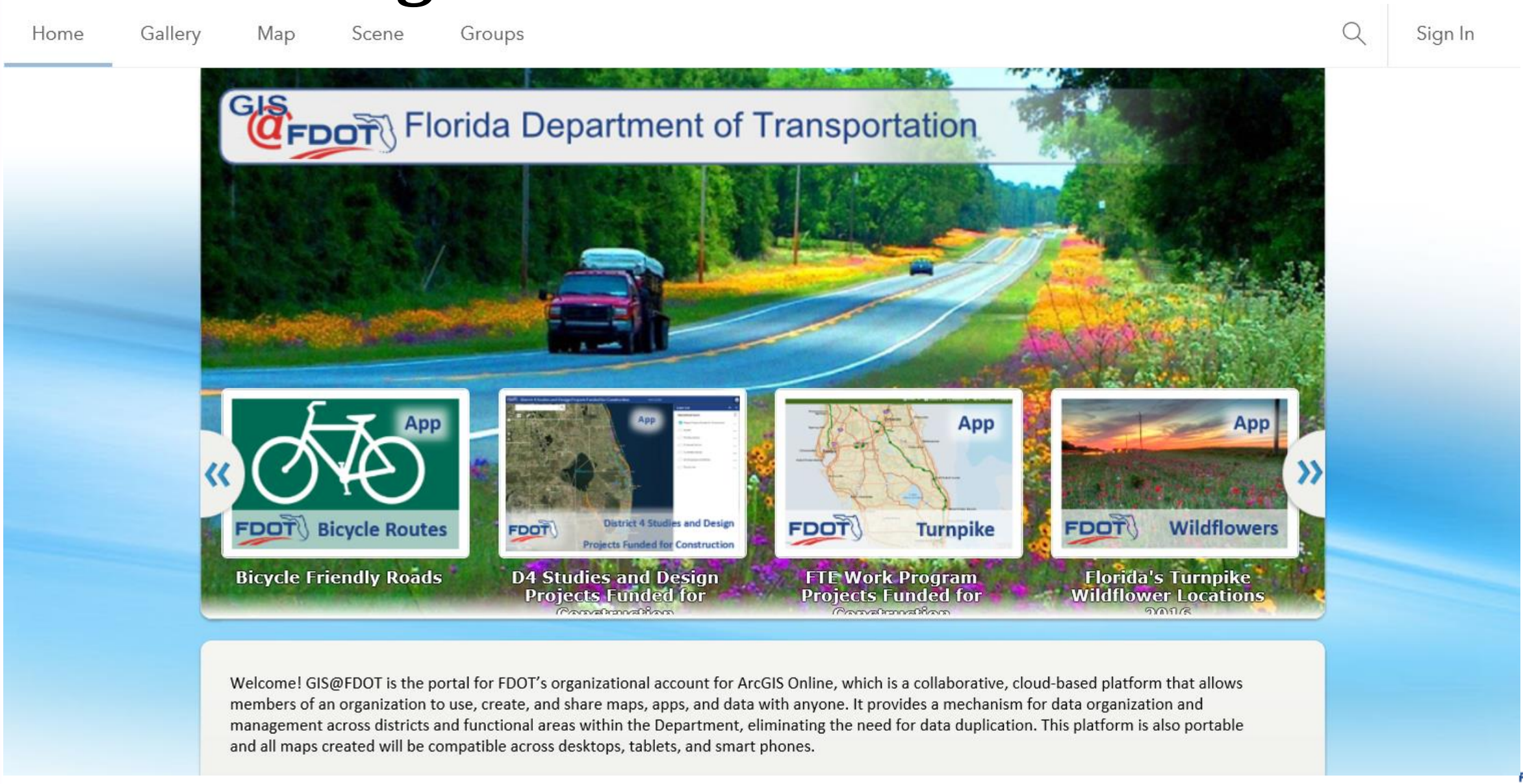
Other Resources

Bridge	FDOT Bridge Inventory Information
Construction	Interactive Projects Map

Accessing the New Database



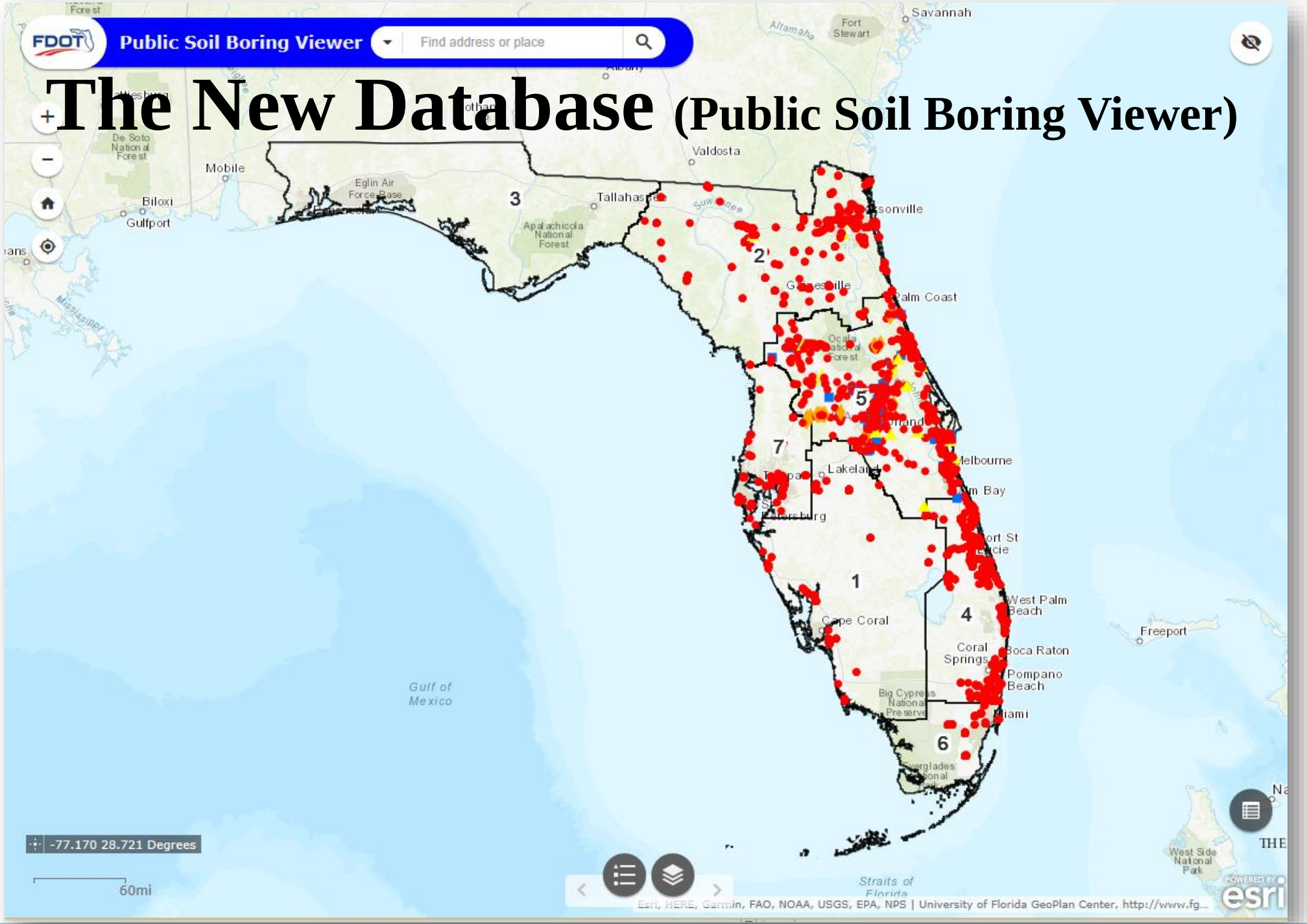
Accessing the New Database



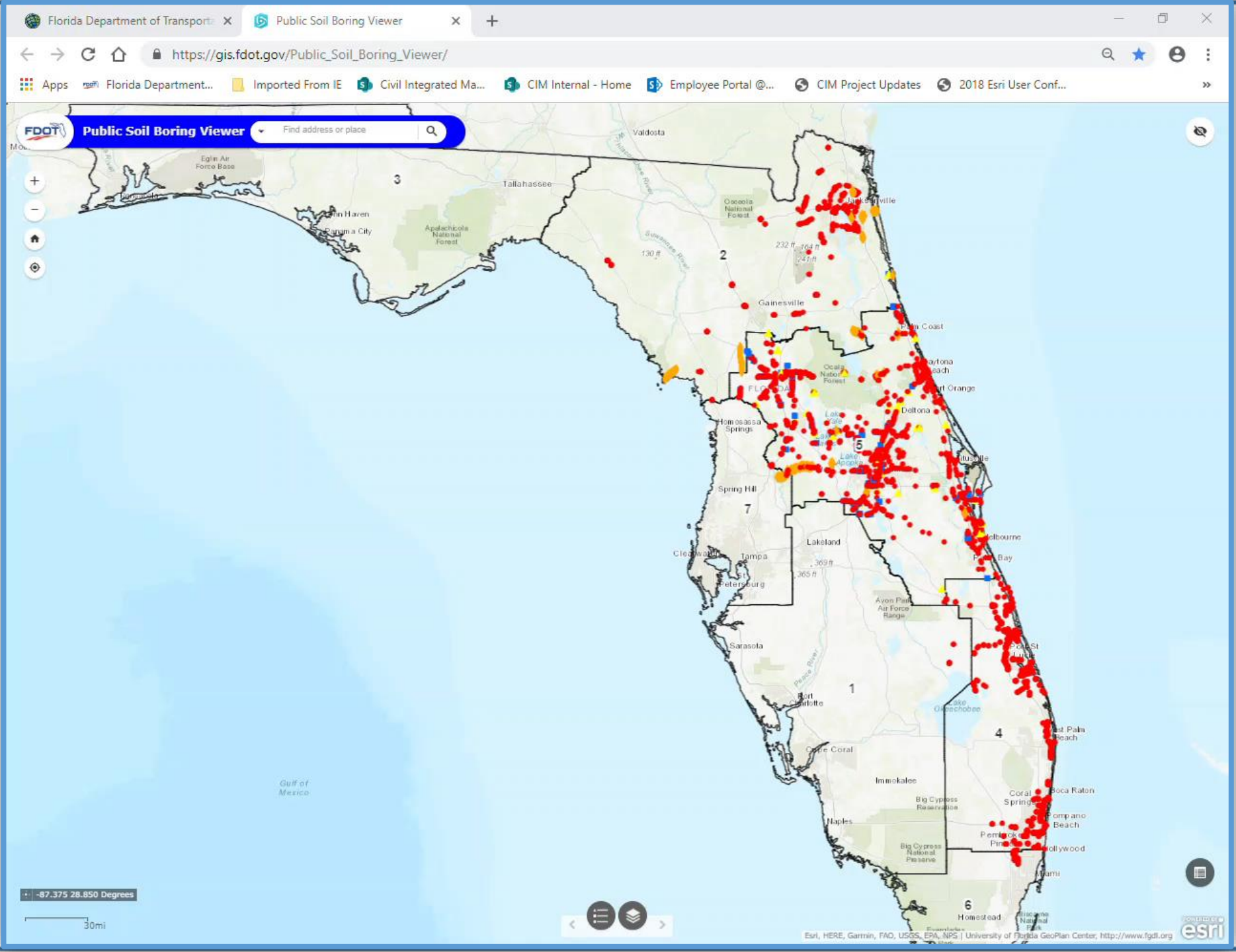
FDOT TRANSPORTATION SYMPOSIUM

Accessing the New Database

The New Database (Public Soil Boring Viewer)



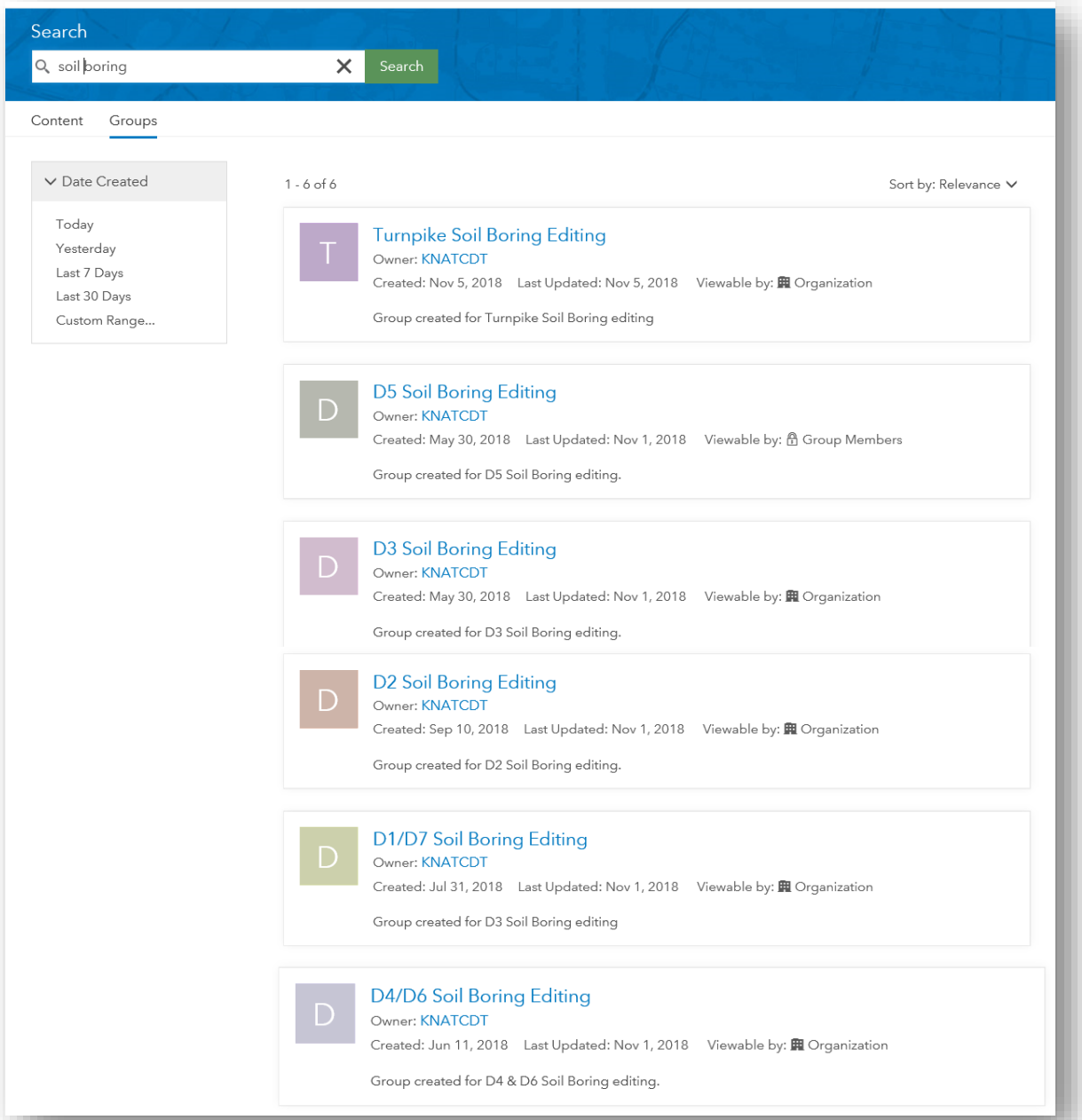
FDOT TRANSPORTATION SYMPOSIUM



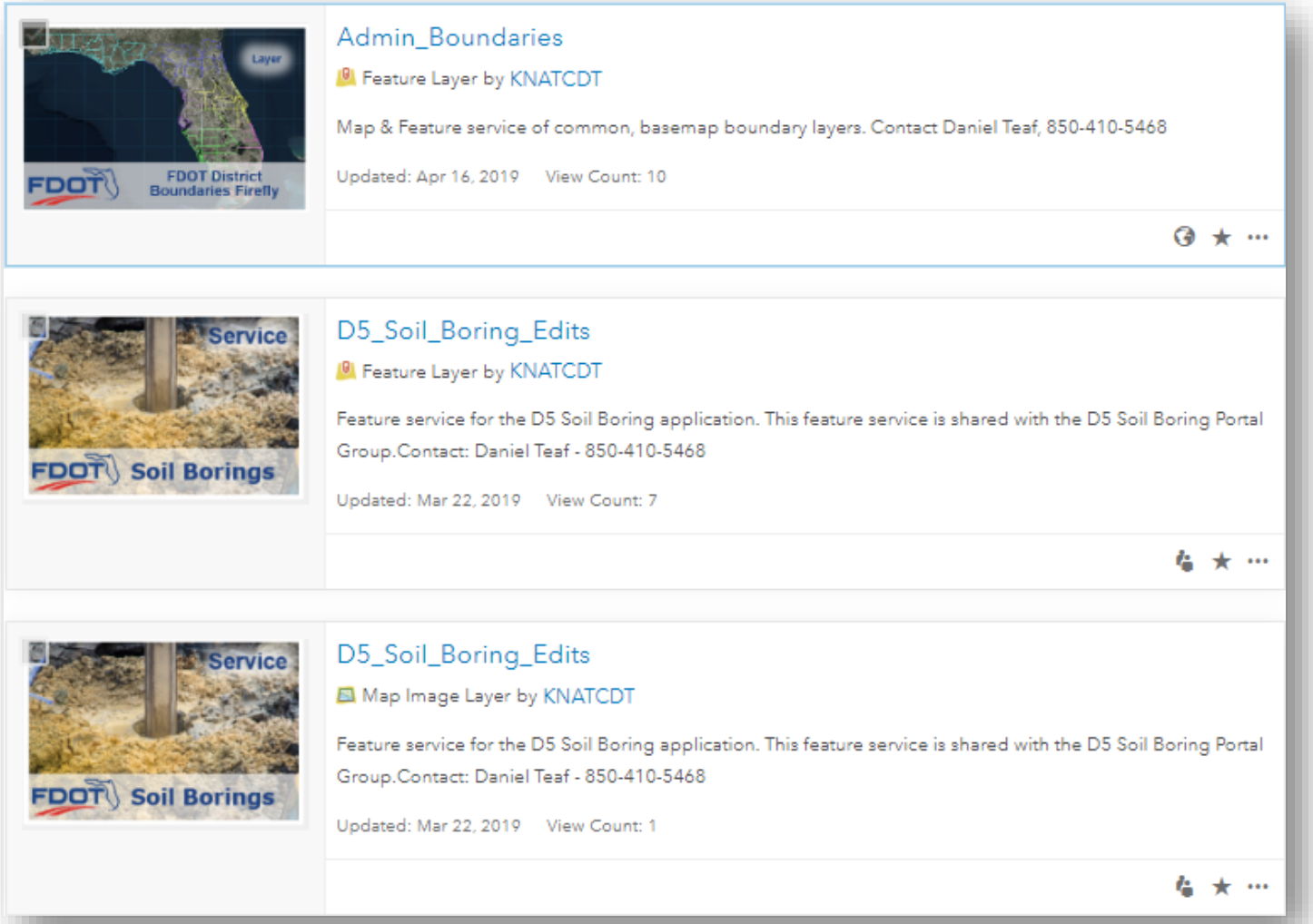
Demo of Public Soil Boring Viewer

FDOT TRANSPORTATION SYMPOSIUM

Soil Boring Editors



Soil Boring Editors



What's Next

Integration with EDMS

- An application (eDocs) that uses the abilities of a database to bring structure in storing business documents and other files.
- A uniform way to store and retrieve documents
- Replaces all other locations that hold documents - my documents, file shares, folders, thumb drives, filing cabinets, document storage sites, etc.