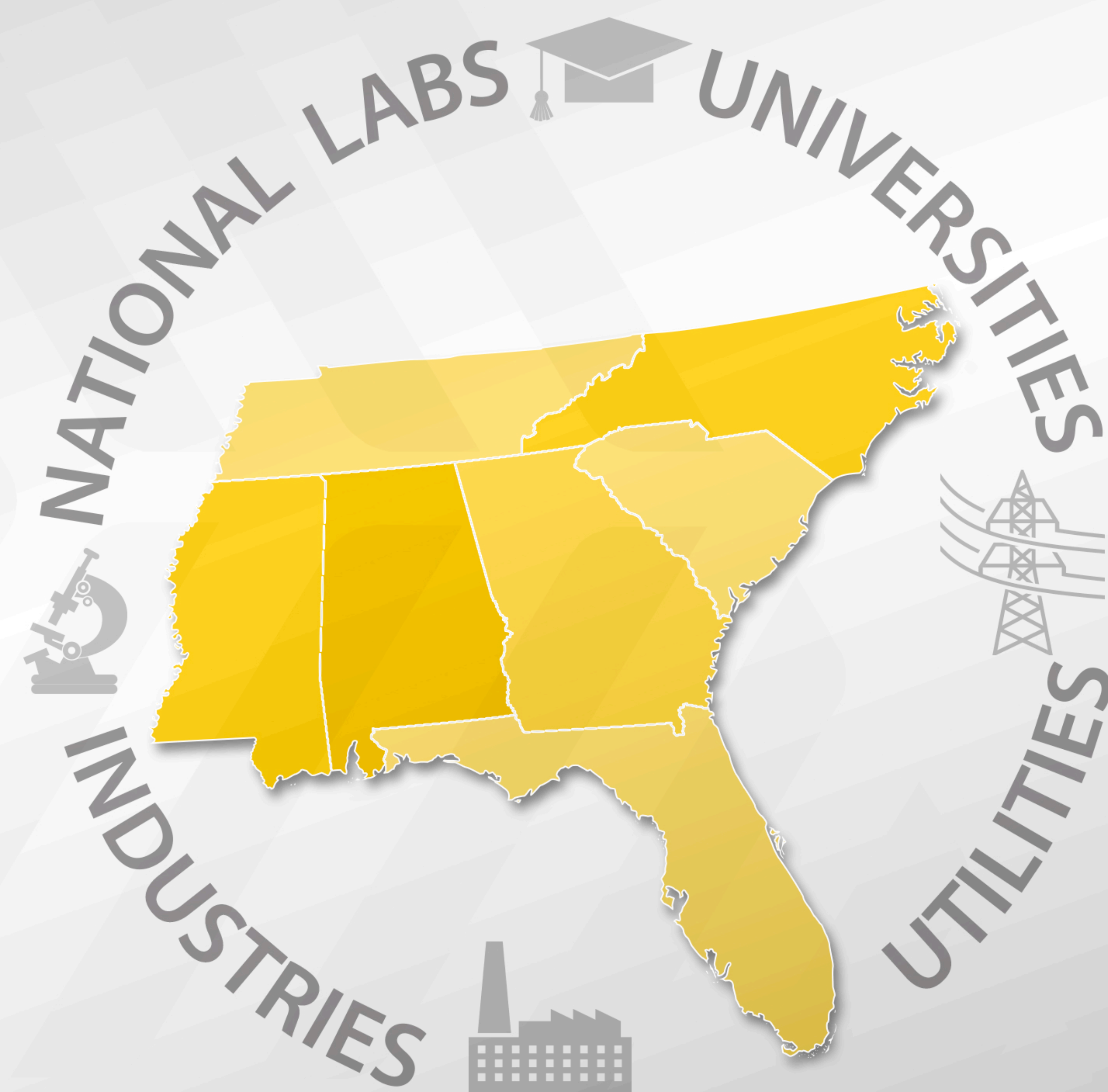


Project Description

Create a consortium of utilities, universities, national laboratories, regulators, and industry in the southeast to address grid related technical challenges specific to this region.

Expected Outcomes

- Southeast Regional Workshop
- Technical Demonstrations
 - Dual secure wireless communications demo at Duke Energy
 - Optical sensors for step-distance protection and bidirectional power flow for distribution.
 - Time sensitive networking test at EPB
 - Test of CSEISMIC app based distributed controller.



Significant Milestones

Date

Complete Design of Design of Wireless Sensor Network	9/30/2016
Hold Southeast Region Workshop	3/30/2017
Documentation of optimization for restoration of at least one distribution feeder	12/31/2016
Report detailing the development of the Geographic Information System with Duke Energy's Distribution Feeders	5/31/2017
Complete Demonstration of Wireless Sensor Network at Duke Facility	6/30/2017
Report detailing test results of time sensitive network hardware and protocols	3/30/2016
Document functional verification of CSEISMIC distributed controls	3/30/2016
Document design and testing of optical step-distance protection	3/30/2016
Finish integration of distributed controls on EPB site-specific infrastructure	12/31/2016

Progress to Date

- Held southeast regional workshop at the Clemson Zucker Center with attendees
 - DOE OE ISER, DOE SR, Duke Energy, Santee Cooper, SCE&G, Southern Company, Electric Power Board, EPRI, General Electric, Resilient Power Systems, Clemson University, UNC Charlotte, NC State, ORNL, SRNL, PNNL
- Technical demonstrations are nearly complete.