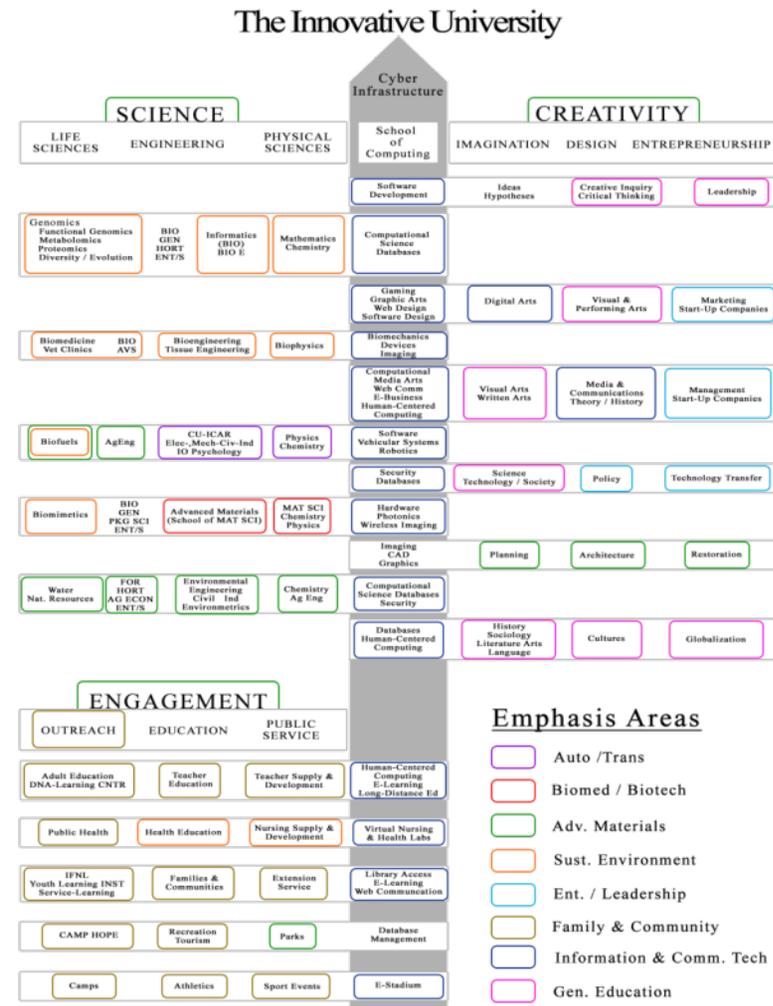


Cyberinfrastructure is strategic for Clemson

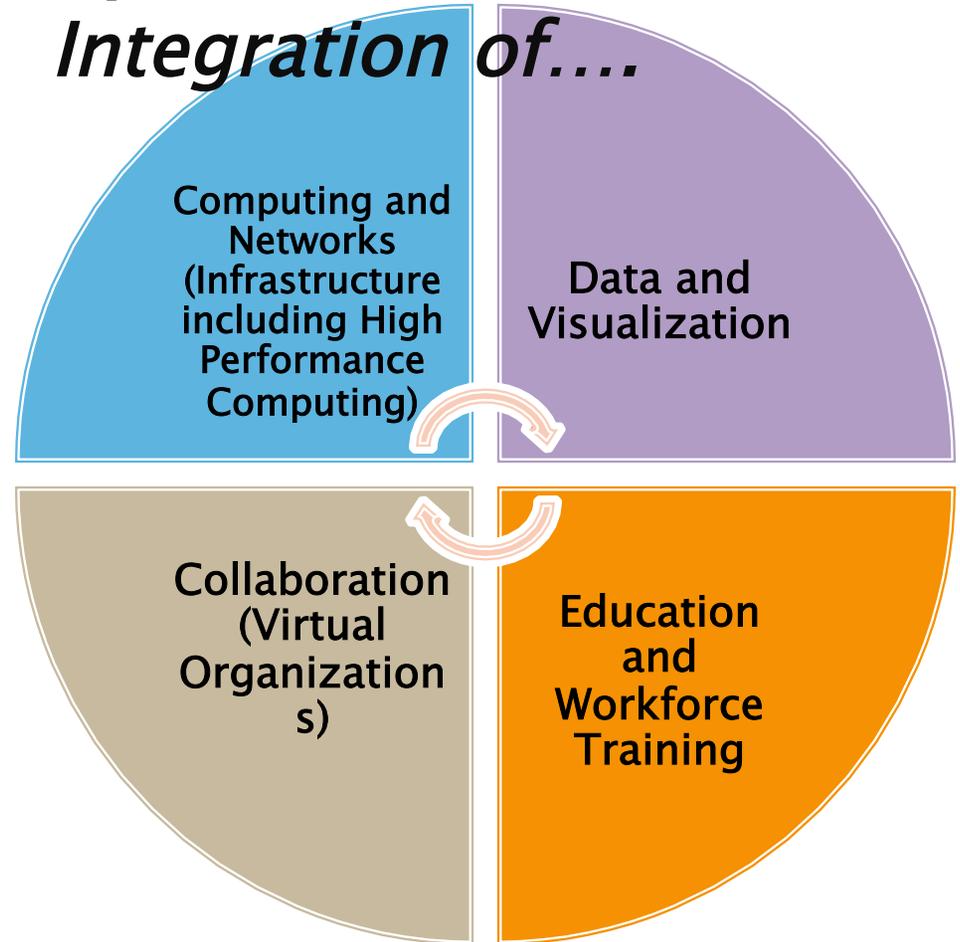
“Cyberinfrastructure is the primary backbone that ties together innovation in research, instruction, and service to elevate Clemson to the Top 20”

Dori Helms
Provost



Organizing Principle

*Cyberinfrastructure is
Integration of....*

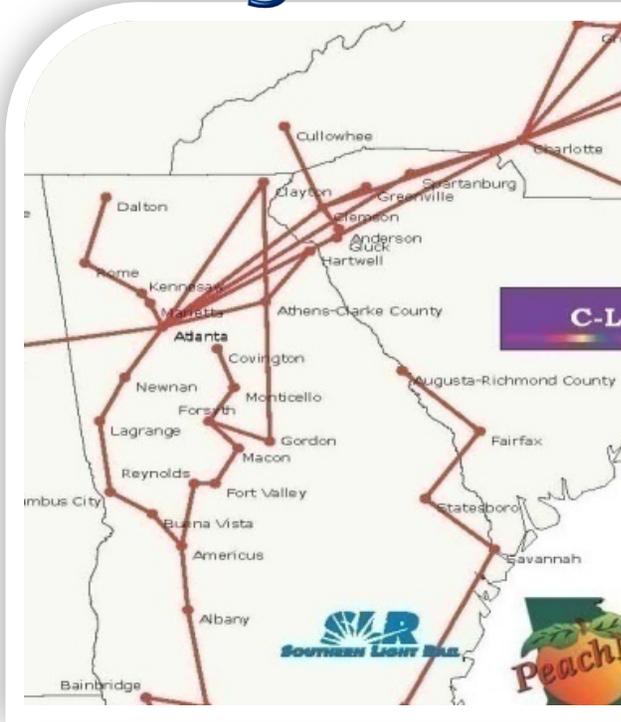


Current Programs

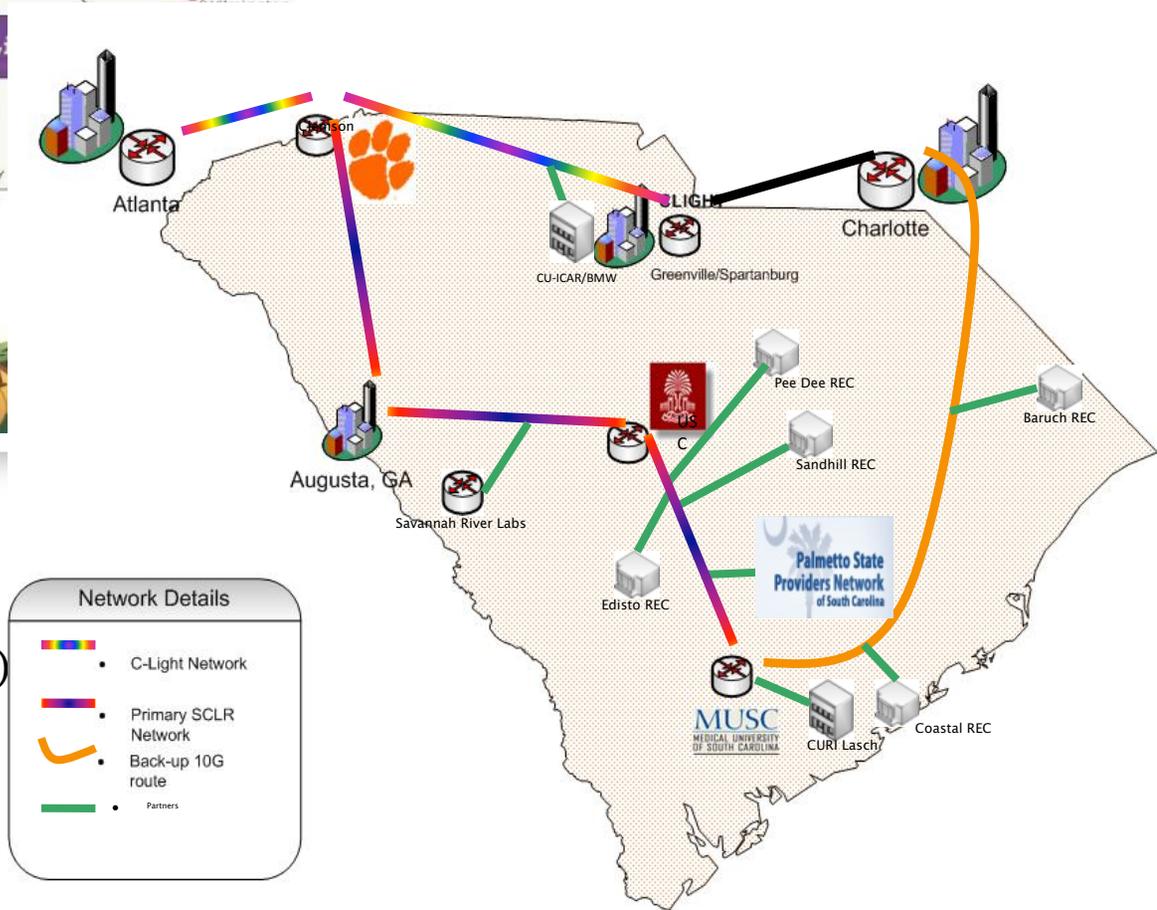
- ▶ South Carolina Cloud TestBed (DoE \$1.6M)
- ▶ EPSCoR RII Track 2 Cyberinfrastructure Award (NSF \$6.0 M) – Partnership with Tennessee EPSCoR
- ▶ Intelligent River (Restoration Institute \$1.5 M)
- ▶ Open Parks Grid (\$53K)
- ▶ NSF GENI, Parallel Virtual File System and NSF CI-TEAM



Change at Clemson – Infrastructure

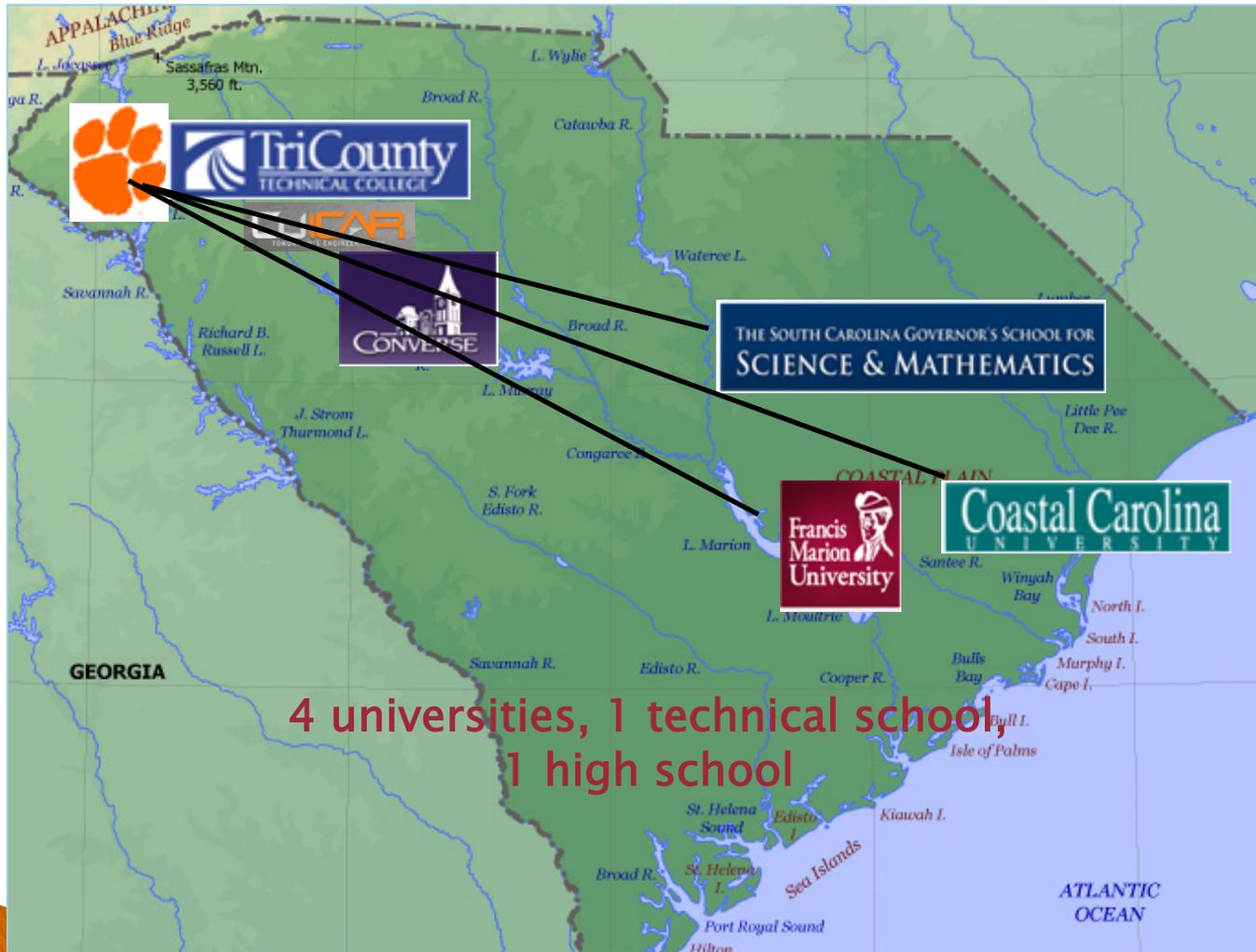


South Carolina: An Evolving Network of Networks



- South Carolina Light Rail (statewide)
- C-Light (Atlanta to Charlotte)
- Palmetto Net
- EPSCoR C1 and C2
- Broadband middle mile

South Carolina Cloud: STEM Teaching – Parallel Computing – Grid Classroom



EPSCoR RII Track 2 Cyberinfrastructure Award – \$6.0 M



EPSCoR CI Participants

▶ SOUTH CAROLINA

- Claflin University
- The Citadel
- Clemson University
- Medical University of South Carolina
- South Carolina State University
- University of South Carolina

▶ TENNESSEE

- Oak Ridge National Laboratory
- University of Tennessee–Knoxville (NICS)
- Vanderbilt University



EPSCoR CI Program Highlights

- ▶ Systems Biology Science Bench
- ▶ Advanced Materials tools
- ▶ Re-engineered application that scales to thousands of processors
- ▶ Education/Training in multi-processor, parallel, and hybrid architecture computation
- ▶ Facilitating access to TeraGrid through regional computation center



Future Direction & Sustainability

- ▶ Industry Partner Program
- ▶ Diversified Portfolio
- ▶ Growing grant portfolio
- ▶ Electronic Health Records / Modern Health Management
- ▶ Software product tech transfer
- ▶ HubZero Consortium member

