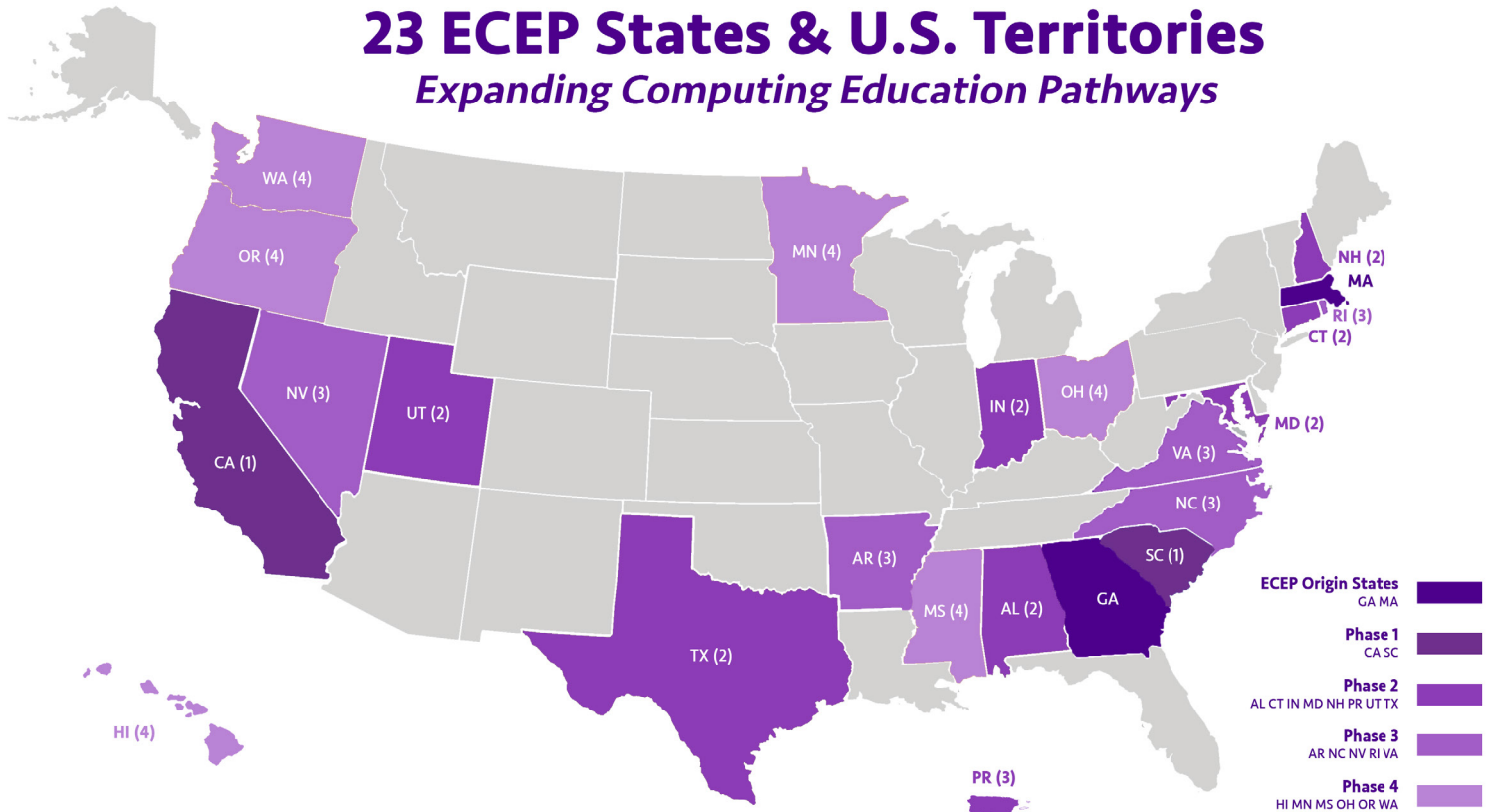


The Expanding Computing Education Pathways (ECEP) Alliance seeks to increase the number and diversity of students in the pipeline to computing and computing-intensive degrees by promoting state-level computer science education reform. ECEP supports diverse state leadership teams to develop effective and replicable interventions to **broaden participation in computing (BPC)** and to create state-level infrastructure to foster equitable computing education policies.

23 ECEP States & U.S. Territories

Expanding Computing Education Pathways

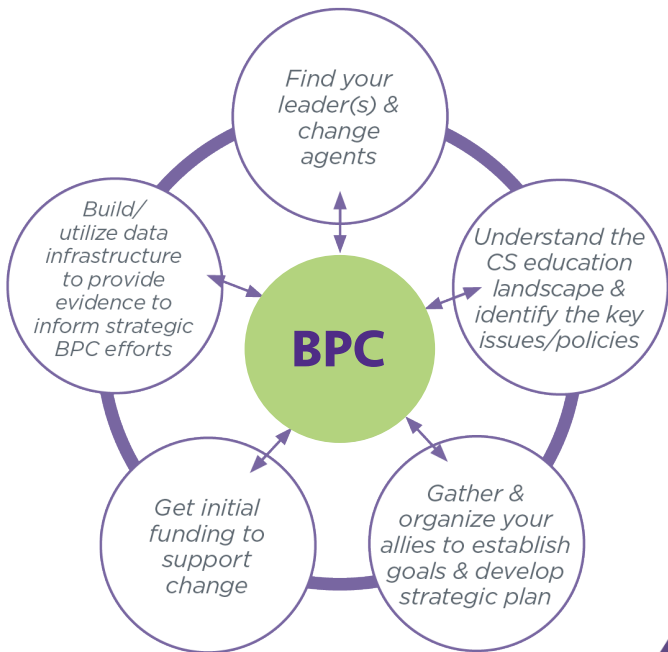


Key Features of ECEP

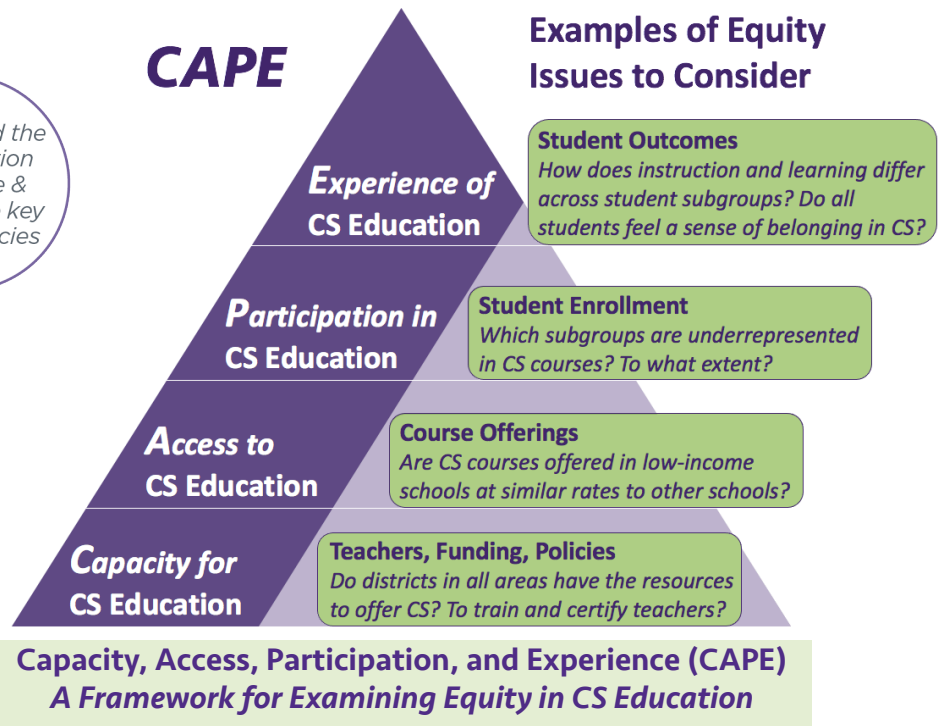
The ECEP Alliance deploys a collective impact model in which ECEP manages the backbone functions of the Alliance while state BPC leadership teams engage directly in the implementation and data collection activities specific to each state.

- ECEP focuses on **STATES as the unit of change** by supporting systemic improvements in policy, organization, and data systems that lay the foundation for large-scale and sustainable advances in BPC.
- ECEP provides **technical support** to state leadership teams for BPC data analysis, goal setting and tracking, and policy design and implementation rather than engaging in direct student interventions.
- ECEP outcomes are grounded in systems change, an approach that focuses on policies and practices that are often codified in law, **leading to policy based sustainability**.
- ECEP requires **cross-disciplinary collaboration** at a systems level among diverse stakeholders representing the computing, education, and policy components of the entire CS education ecosystem.

- Catalyze and **incubate diverse state leadership** teams that keep BPC at the forefront in state level actions around Capacity for CS ed, **Access** to CS ed, **Participation** in CS ed, and Experiences of CS ed (**CAPE**).
- Provide **coaching** and technical assistance to state teams, advancing them through the **ECEP 5-stage state change model**, including **CS education summits**, **developing goals** and metrics for tracking longitudinal change in BPC, **creating CS landscape reports**, and supporting **BPC data collection and dissemination**.
- **Connect** state leaders to expertise, resources, and promising practices to help them advance BPC for students historically underrepresented in computing.



5-Stage Change Model



Capacity, Access, Participation, and Experience (CAPE)
A Framework for Examining Equity in CS Education

68 % of ECEP states have identified one or more priority K-12 populations to serve

83 % of ECEP states have a landscape report or are developing one

134 # of core state leaders collaborating across ECEP

ECEP Alliance Team and Contact Info

PI: Carol Fletcher, The University of Texas at Austin
Co-PIs: Joshua Childs, The University of Texas at Austin
 Sarah Dunton, Mass. Green High Performance Computing Center
 Anne Leftwich, Indiana University
 Debra Richardson, University of California-Irvine

Email: ecepalliance@gmail.com
Twitter: @ECEP_CS
Website: <https://ecepalliance.org>

Evaluator: Aileen Reid, University of North Carolina Greensboro

