

CAITLIN HOWLEY, ICF, Fairfax, VA 22031. And Yet They Persisted: Early Evaluation of the First2 Network.

The first two years of an undergraduate student's STEM program of study are particularly treacherous, with roughly half of STEM majors switching to other fields or dropping out entirely after their sophomore year. Moreover, attending a rural high school that was unable to offer higher-level math courses and being a first-generation college student further increase the likelihood of STEM attrition.

This presentation will feature early evaluation results from the First2 Network's first 18 months of operation. Funded by the National Science Foundation, the First2 Network is a collective impact effort to improve STEM persistence among rural, first-generation college students in West Virginia. With students themselves as co-creators of solutions to problems of persistence, core Network activities include iterative testing of improvements to practice, development of a statewide network to support student success, and capacity building to ensure sustainability.

Study methods include surveys and interviews, observation of Network activities, document review, social network analysis, and tracking of student progress. Key findings suggest rapid Network expansion, establishment of core processes to support workgroups, provision of Network-wide training in improvement science, and successful facilitation of four summer immersive research experiences for targeted students. Early outcomes include statistically significant improvements in students' STEM efficacy and STEM identity following summer immersive experiences, and improved survey scores indicating progress through iterative testing cycles. Early persistence data from participating students will be available by the time of the conference.

The First2 Network is supported by National Science Foundation INCLUDES Award Nos. 1834595, 1834586, 1834601, 183457, and 1834569.