

Facilitating Widespread Implementation of Teaching Strategies Known to Promote Student Success throughout a State System of Colleges

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APPROACH: PATHWAY:

Multi-tiered approach targeting the individual and their environment (both local and system-wide) to make STEM education more evidence-based and equitable.

INDIVIDUAL



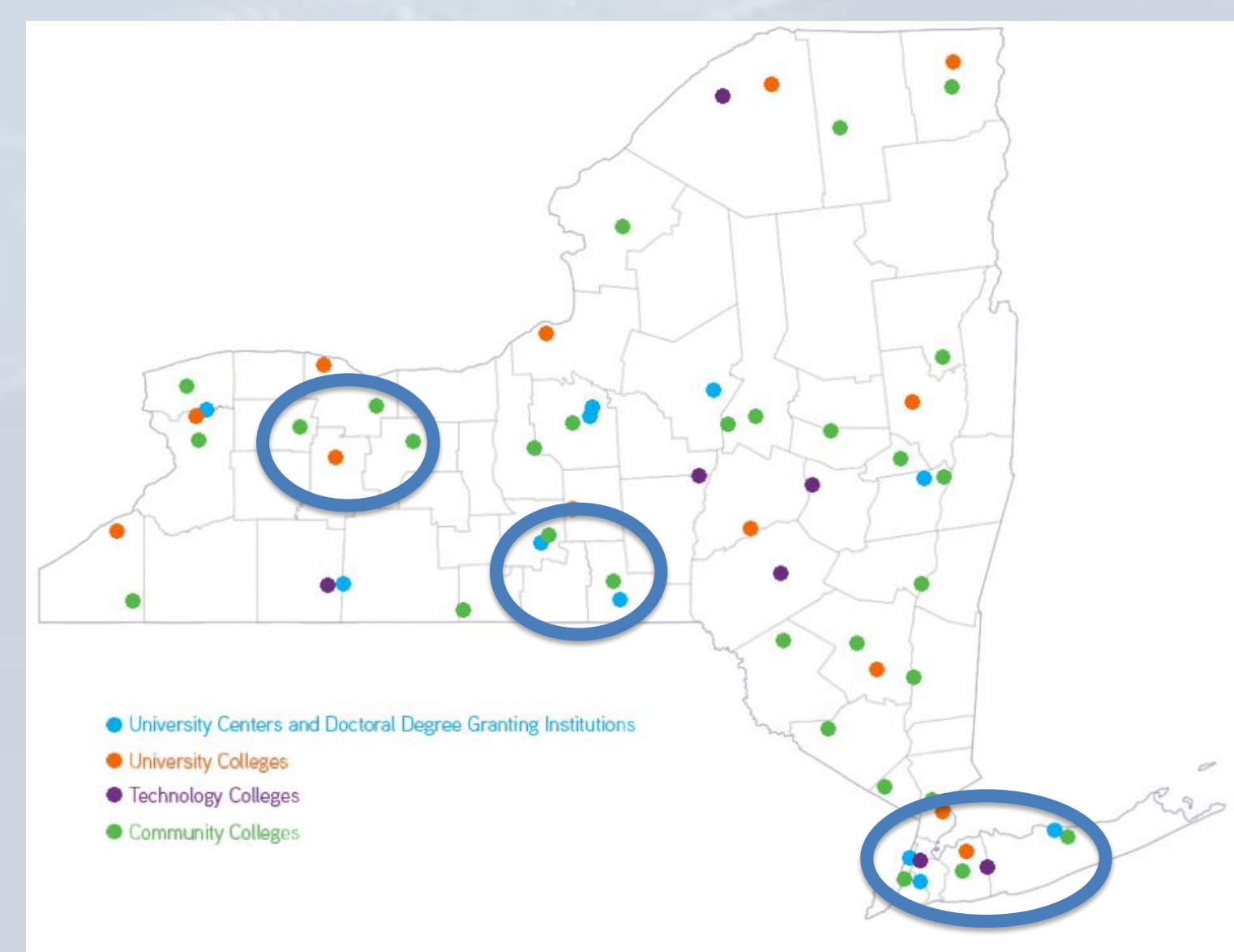
- COMPREHENSIVE PEDAGOGICAL TRAINING**
- MoSI-SENCER Hybrid Summer Institute
- REFLECTIVE TEACHING PRACTICES**
- Course evaluation
 - Peer Feedback and Reflection
- TRAINING IN HIGH IMPACT PRACTICES**
- PBL, CURE, VIP

INSTITUTIONAL



- LOCAL EXPERTISE/CHANGE AGENTS**
- Project trainers & leaders
- COMMON VISION & APPROACH FOR TRANSFORMATION**
- Scientific Teaching & SENCER
- BUILD A CRITICAL MASS OF TRANSFORMERS**
- LOCAL STRATEGIC PLANNING**
- Address local barriers to change
- ADMINISTRATIVE WORKSHOP**
- Foster local buy-in & support

STATE SYSTEM OF SCHOOLS



- LEVERAGE CONNECTIONS BETWEEN SCHOOLS**
- CROSS-INSTITUTIONAL FACULTY MENTORING NETWORKS**
- Building extra-institutional community
- CROSS-INSTITUTIONAL STRATEGIC PLANNING**
- Share ideas & strategies
 - Disseminate effort & workload
 - Unify voices

SUMMIT: LONG-TERM OUTCOMES

Teaching & research merge to create STEM education that is inclusive, accessible, holistic, flexible, mentored, collaborative, relevant, authentic, multi-disciplinary, research- & community-centered.

(Susan Singer, 2020 NASEM [Imagining the Future of UG STEM Education](#))

CAMP 2: MEDIUM-TERM OUTCOMES

- | | |
|----------------------------------|--------------------------------------|
| <u>Individual</u> | <u>Institutional</u> |
| ↑ inclusive mindset | ↑ value of teaching |
| ↑ use of data to drive decisions | ↑ integration of teaching & research |
| ↑ high impact practices | ↑ effective teaching evaluation |
| ↑ network of practitioners | ↑ policies that support teaching |

CAMP 1: SHORT-TERM OUTCOMES

- | | |
|-------------------------------------|--|
| <u>Individual</u> | <u>Institutional</u> |
| ↑ awareness | ↑ connections between campuses |
| ↑ acceptance | ↑ diffusion of a common vision & approach for transformation |
| ↑ adoption of high impact practices | ↑ collaboration on transformation efforts |
| ↑ support & community for teachers | |

BASE CAMP: WE ARE HERE

- Passive lecture predominates & reduces student success
- Siloed departments & campuses
- Lack of policies/incentive structures that support teaching transformation to improve persistence if diverse students



For more information