

Innovating Instruction: Systemic Change in a Global Society

The Center for Technology and School Change (CTSC)

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Center for Technology and School Change

Teachers College, Columbia University
New York, NY

- Professional Development
- Research
- Evaluation



CTSC Mission

The Center for Technology and School Change is committed to the creation of innovative learning environments for all students. Recognizing technology as a catalyst for transforming instruction, the Center engages in research and practice to reimagine approaches to equitable education in the digital age.



LEARNING IS
CHANGING



SCHOOLS ARE
CHANGING



TEACHERS NEED
A BRIDGE



INSTRUCTIONAL
INNOVATION IS
NEEDED



TRADITIONAL CLASSROOM PRACTICES VERSUS DEEP LEARNING

TRADITIONAL CLASSROOM PRACTICES (Instructionalism)	LEARNING KNOWLEDGE DEEPLY (Findings From Cognitive Science)
<ul style="list-style-type: none">Learners treat course material as unrelated to what they already know.	<ul style="list-style-type: none">Deep learning requires that learners relate new ideas and concepts to previous knowledge and experience.
<ul style="list-style-type: none">Learners treat course material as disconnected bits of knowledge.	<ul style="list-style-type: none">Deep learning requires that learners integrate their knowledge into interrelated conceptual systems.
<ul style="list-style-type: none">Learners memorize facts and carry out procedures without understanding how or why.	<ul style="list-style-type: none">Deep learning requires that learners look for patterns and underlying principles.
<ul style="list-style-type: none">Learners treat facts and procedures as static knowledge handed down from an all-knowing authority	<ul style="list-style-type: none">Deep learning requires that learners understand the process of dialogue through which knowledge is created, and that they examine the logic of an argument critically.
<ul style="list-style-type: none">Learners memorize without reflecting on the purpose or on their own learning strategies.	<ul style="list-style-type: none">Deep learning requires that learners reflect on their own understanding and their own process of learning.



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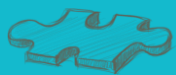
SCHOOLS ARE CHANGING





TEACHERS NEED A BRIDGE

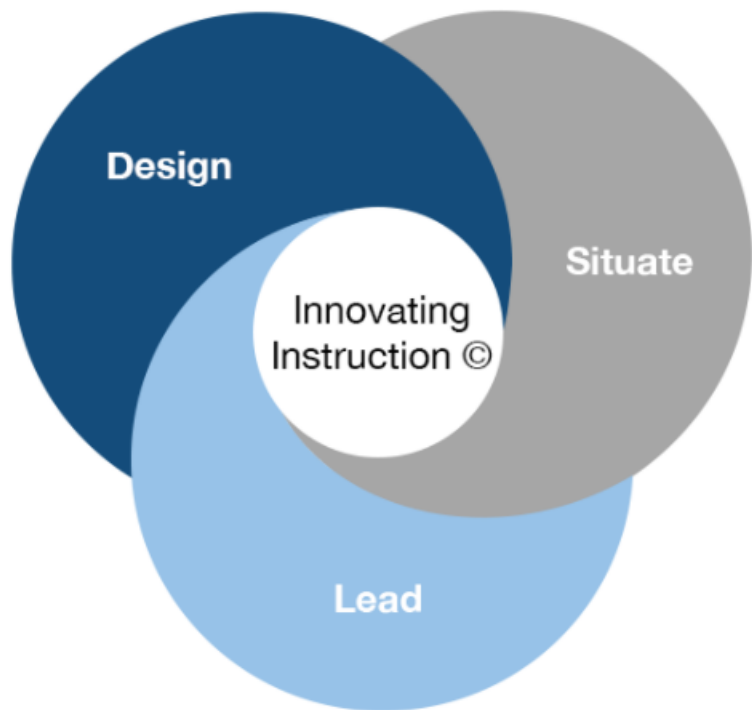




INSTRUCTIONAL
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CTSC Professional Development Model: *Innovating Instruction* ©



Design

Engage teachers as designers of student-centered, authentic learning experiences

Situate

Create learning experiences for teachers that foster professional respect while adapting the learning for their particular school and situation

Lead

Support leaders in guiding and sustaining change initiatives, while positioning teachers as agents of change



THE BIG CHALLENGE IS TO DEVELOP
BETTER SYSTEMIC APPROACHES
FOR “INNOVATING INSTRUCTION”





THE BULGARIA STORY





THE BULGARIA STORY





Q&A

QUESTIONS & ANSWERS SESSION