

**Old Dominion University's
Lab School Network:
A Partnership Administered through
the Center for Educational Innovation
and Opportunity**



OLD DOMINION
UNIVERSITY

ODU Center for Educational Innovation and Opportunity - Rapidly changing education one innovation at a time

Mission: Old Dominion University's Center for Educational Innovation and Opportunity will (1) be the hub for ODU's lab school network, (2) serve as the fiscal agent or lead partner for the nine schools in the institution's lab school network, (3) coordinate best practices and research between lab schools across the Commonwealth of Virginia, (4) provide subject matter expertise to lab school leaders in the Commonwealth, (5) promote a culture of innovation across Virginia's K-12 and higher education institutions, (6) identify strategies to develop and scale innovative educational programs and initiatives in the Commonwealth.



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Lab School Network



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Our Partnership

ODU's Center for Educational Innovation and Opportunity will provide:

- Coaching for lab school leaders
- Subject matter expertise
- A forum for data sharing
- Research support
- Professional development
- Network-wide design thinking opportunities

Lab School Network Institutions commit to:

- Sharing quarterly data on progress towards goals, challenges, and opportunities
- Participating in joint research projects with other members of the lab school network
- Sharing best practices
- Participating in lab school events hosted by the Center
- Sending representatives to the annual lab school summit hosted by the Center



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Cultivating a Community of Practice: 9 Lab Schools, 1 Network

- lab school leaders, educators, researchers, community partners, and other stakeholders
- cross-lab school sharing, including site visits and role-alike connections
- identify innovative, scalable, and sustainable educational practices benefitting K-12 and higher education



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Lab Schools @ ODU

What is a lab school? <https://www.ialslaboratoryschools.org/>

“...schools engaged in practices of teacher training, curriculum development, research, professional development, and educational experimentation for the purpose of supporting member’s schools and as a voice speaking for the improvement of learning for all children.”

Our Lab Schools’ missions and philosophies are guided by:

- (1) a commitment to excellence in education
- (2) the critical nature of student active agency and student voice in learning
- (3) experimentation with pedagogical approaches and experiential learning
- (4) innovative approaches to professional learning and educator preparation
- (5) integration of research and teaching

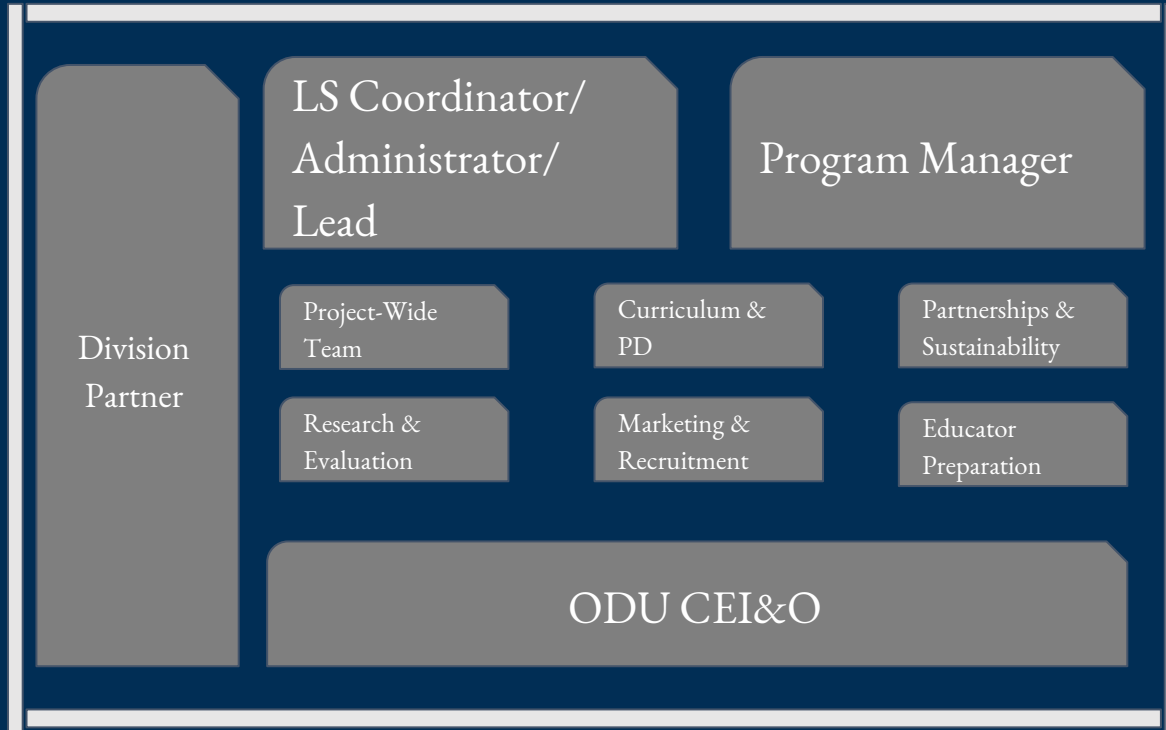


<p>Maritime Engineering & Environmental Studies Academy</p>	<p>Computer Science Lab School</p>	<p>The STEM Academy @ Booker T. Washington Elementary School</p>	<p>The Aerospace Academy of the Eastern Shore</p>
<p>Newport News Public Schools</p>	<p>Chesapeake Public Schools</p>	<p>Suffolk Public Schools</p>	<p>- Accomack County Public Schools - Northampton County Public Schools - Eastern Shore Community College</p>
<p>11 & 12</p>	<p>6-8</p>	<p>K-5</p>	<p>9-12</p>
<p>Use experiential learning strategies to prepare students for traditional and emerging careers in the maritime industry</p>	<p>Prepare students for the technology talent pipeline and to increase the number of K-12 teachers prepared to teach Computer Science in support of that pipeline</p>	<p>A comprehensive integration of STEM (Science, Technology, Engineering, and Mathematics) education</p>	<p>Prepare students for aerospace and adjacent industries</p>



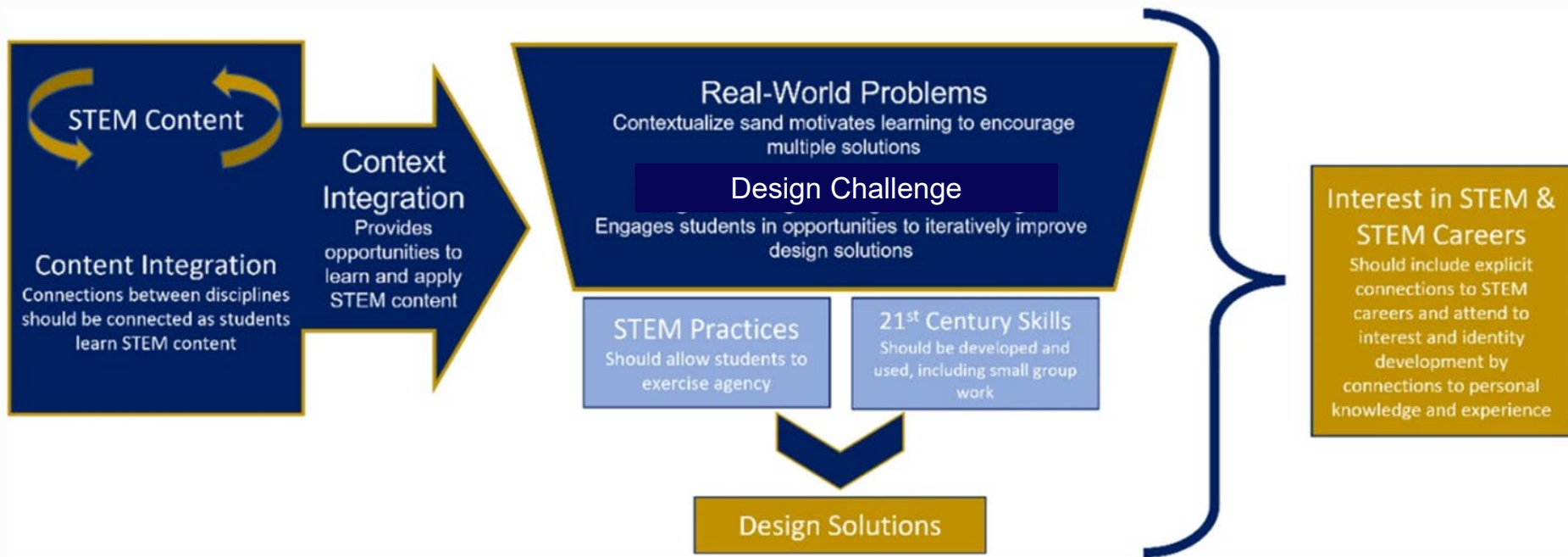
Lab School

Governing Boards - CEI&O- ODU & Division Partner(s) Year 0 Framing



Innovations

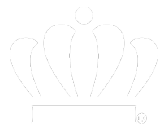
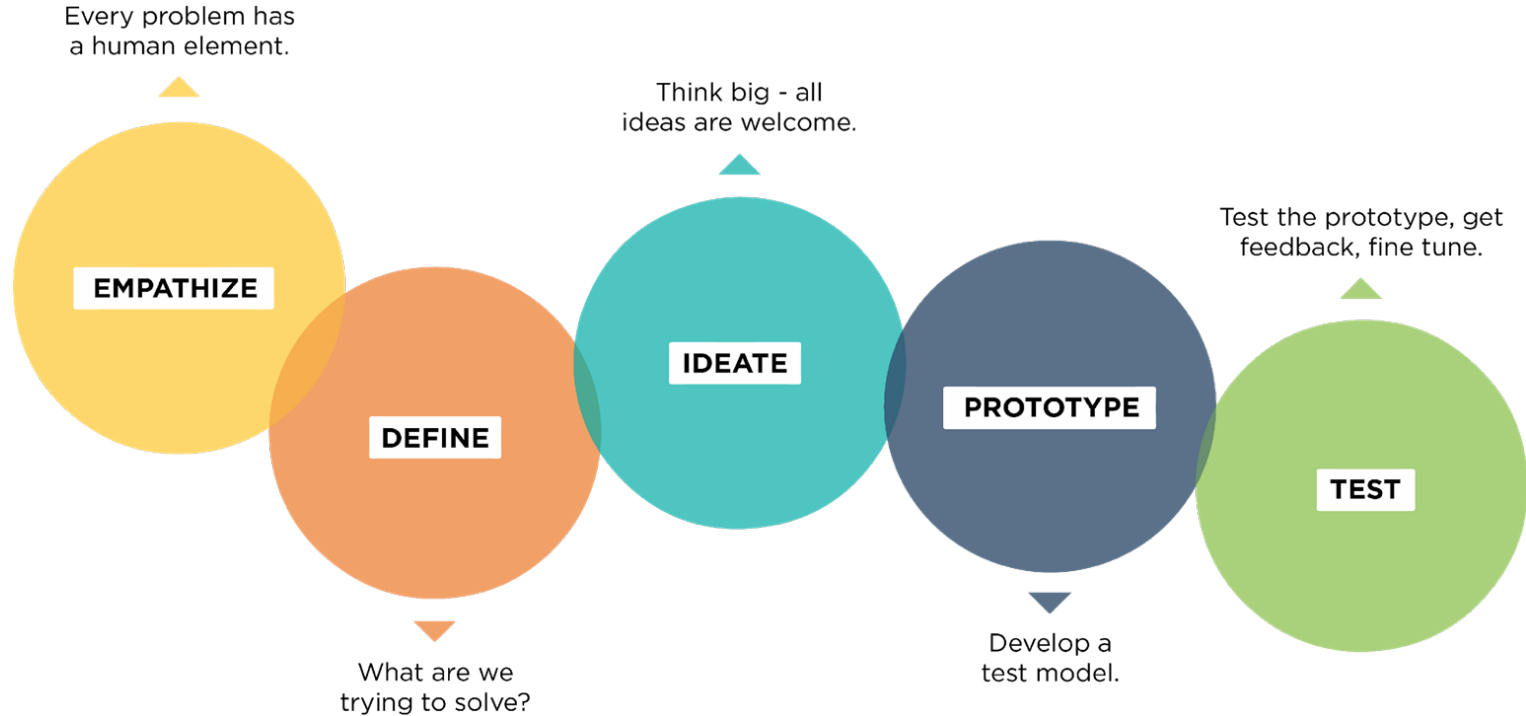
From: [Beyond the basics: a detailed conceptual framework of integrated STEM](#)



Interactions between critical characteristics of integrated STEM

**Maritime - Computer Science - Integrated STEM - Aerospace
Experiential Learning - Design Thinking - Problem-Based Learning - Innovative Classroom Design -
Expositions of Learning - Makerspaces - ePortfolios - Innovative Curriculum**

Design Thinking & Experiential Learning



Educator Preparation

- Building sustainable and scalable grow-your-own pathways to new teacher preparation through high-school Educators Rising/Teachers for Tomorrow through registered apprenticeships for teaching assistants and year-long teacher residencies
- Promoting diverse pools of highly skilled teachers who reflect the demographics of the K-12 students they serve
- Increasing teacher retention through high quality preparation and induction support
- Investing in mid-career teachers to build school capacity as a whole



Research & Evaluation

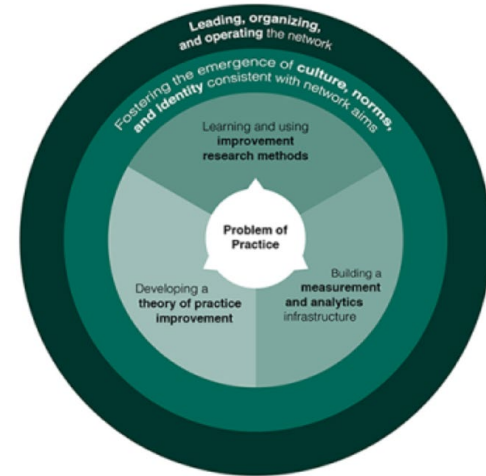
Hybrid Research-Practice Partnership

Networked Improvement Community & Design Based Implementation Research

A networked improvement community:

- is collaborative
- uses the principles of improvement science
- learns from promising practices developed in each context and how they may be adapted to other contexts

Proger, A. R., Bhatt, M. P., Cirks, V., & Gurke, D. (2017). Establishing and sustaining networked improvement communities: Lessons from Michigan and Minnesota (

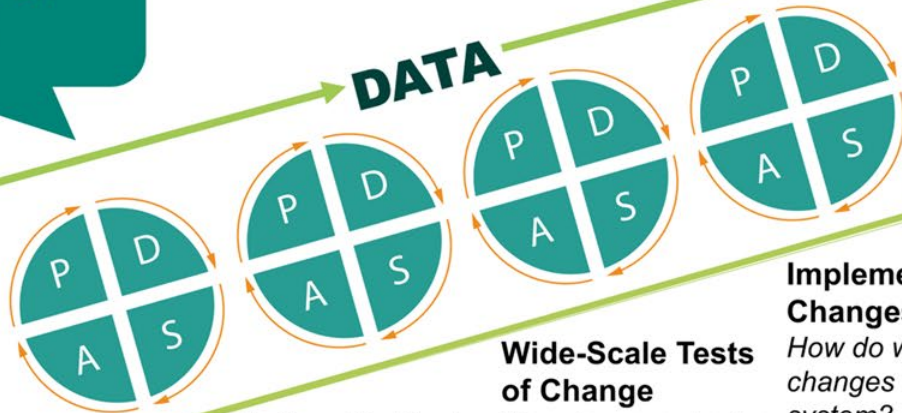


Building Evidence for a Change

How will we know this change is actually an improvement?

Changes that produce quality with reliability at scale

DATA



Theory-informed change ideas

Very Small Scale Tests
How can we make this change work?

Follow-Up Tests
How can others adapt the change successfully?

Wide-Scale Tests of Change
How do we make the change work across contexts?

Implementation of Changes
How do we spread changes to the entire system?

Adapted from *The Improvement Guide: A Practical Approach to Enhancing Organizational Performance* (2009) by Clifford L. Norman, Gerald J. Langley, Kevin M. Nolan, Lloyd P. Provost, Ronald D. Moen, and Thomas W. Nolan



