A PORTFOLIO APPROACH TO STEM EDUCATION

For an entire community to substantially increase talent, focusing on one specialized school or program will not suffice. There must be a systemic effort to transform teaching and learning in classrooms across the region throughout all types of schools – traditional public, community, and private.

In addition, these classrooms and schools must be networked together to learn from each other, and have access to teaching and learning supports that enable them to implement cross-disciplinary, project-based, inquiry-based approaches that are grounded in real world events, activities and careers. That is why EDvention has developed A Portfolio Approach to STEM Education based on the premise that as long as the critical elements and rigorous expectations of the STEM approach are firmly in place, great STEM education can be implemented in a variety of ways and in a multitude of settings to address student needs.

The Dayton Regional STEM Center will be the lynchpin in this strategy, providing curriculum, support and training for teachers and leaders, and networking schools and educators together to learn from national experts and from one another.

EDVention - The Dayton Region's Portfolio Approach to STEM Education

Capacity Building
&
Student and Teacher
Supports

Dayton NGA STEM Center

Sponsored by

Governor Ted Strickland's Office

The National Governors Association

Western Ohio EXCEL Center

School Districts

AFRL/Other STEM Industry Partners

The Montgomery County Education Service Center

ReadySetSoar

Early Care and Education Initiative

Create and Sustain Quality Professional Development Support for Families Maximizing Investments

Existing School Transformation

Curriculum Development STEM Quality Assurance Tools Professional Development Instructional Materials

Innovative Schools

Dayton Early College Academy Dayton Regional STEM School Ponitz Career Tech Center Miami Valley Career Tech Center

Innovative Programs

Choose Ohio First Scholarship Program K-8 STEM Programs of Excellence Internships/Co-Ops NSF Urban STEM Teacher Academy Advocacy, Strategy & Collaboration

EDvention

Partners

13

Community and Philanthropic Organizations

23

Early Care and Education Organizations

9

Higher Education Institutions

6

Local Government Entities

25

P-12 Districts and Schools

20

STEM Industry & Economic Development Entities