



# State Plans for STEM: Building Consensus, Designing the Plan, and Aligning Initiatives

## ■ Participants will learn:

- How all stakeholders can be included in the planning process
- How STEM was balanced with other state priorities, and integrated into an overall education agenda
- How partnerships were created and leveraged
- What the resulting plans look like



P E N N S Y L V A N I A

**S**TE $\textit{M}$

**I N I T I A T I V E**

**NGA/Team PA Funded Initiative**

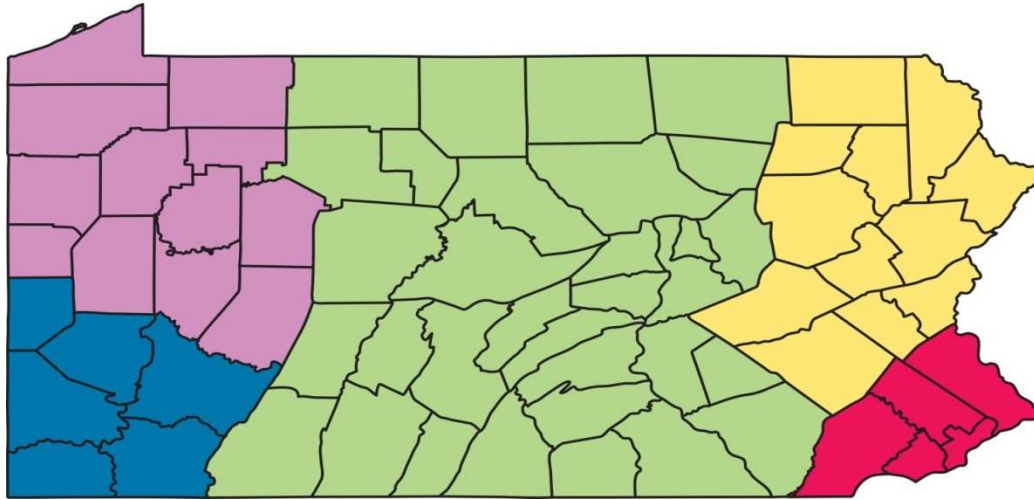
*Leveraging Public-Private Partnerships on STEM Redesign in Pennsylvania*



## Beginnings

- \$500,000 grants over two years to six states (Colorado, Hawaii, Minnesota, Ohio, Pennsylvania, and Virginia)
- Grants out of Innovation America initiative; Governor Rendell was on the Task Force
- Led by the Governor's Office and Team PA Foundation; Strategic Partners: NGA, PDE, L&I, DCED

# *A Regional Strategy for Sustaining Regional Innovation*



Our objective is to:

**Dramatically increase P-20 students (*especially females, minorities and the underrepresented*) for careers in STEM while continuing the development of effective strategies to retain, recruit and retrain our incumbent workforce in these critical fields.**



### **Mission:**

By 2018 Pennsylvania will have a globally competitive workforce with a robust supply of highly effective teachers and students who are well-prepared in STEM education.

### **Vision:**

The Pennsylvania STEM Initiative is a collaborative public/private partnership committed to improving and aligning the Commonwealth workforce, education and economic development systems to realize the Pennsylvania STEM Initiative vision by 2018.



# The Process & the 5 Deliverables for the Regional STEM Networks

## PROCESS:

- Regional Guidelines & Work Plan

## DELIVERABLES:

- Regional STEM Strategy
- Communication Strategy
- Gap Analysis
- Asset Mapping: Inventory of Best/Effective Practices & Resources/Assets for Region
- Regional Champions



## Short Term Goals

- 1. Organize Five Regional STEM Networks**
- 2. Create a long term (10 Year) Pennsylvania STEM Strategy**
- 3. Implement a Communication Strategy**
- 4. Secure and Leverage Resources**



## Long Term Goals

- 1. Increase the number and diversity of Pennsylvania's students, residents and workers with high quality post-secondary STEM education and training.**
- 2. Ensure that all graduates from Pennsylvania's high schools meet or exceed proficiency in STEM content areas.**
- 3. Diversify and increase the number of Pennsylvania teachers who are well prepared and highly-effective in providing STEM education.**
- 4. Increase awareness of and commitment to STEM education as a priority for Pennsylvania.**

# Partnerships to Achieve our Goals:



In 2008, the Pennsylvania STEM Initiative received a grant to partner with the National Girls Collaborative Project. The NGCP is designed to foster collaborations between **girl-serving STEM organizations** across the United States and Puerto Rico. Together these two groups developed the PA STEM Girls Collaborative Project. This Project will function under the Initiative to achieve our goal to **increase gender equity in STEM fields.**

# Partnerships to Achieve our Goals:



- Annual event for high school students
- Free Pro-E software
- Statewide competition ➡ winner goes to nationals



- 27 teams competed in this year's competition
- 7 from the Central Network
- 2 from York County School of Technology
- PA's winner, Cumberland Valley won 3<sup>rd</sup> in Nationals



## **CONTACT**

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