STEM Models for Implementation of Science Standards

National Association of State Boards of Education

July 8, 2014
“for the purpose of education... the encouragement of creative and research work and the making of discoveries and inventions”
STEM Education Goals

Student success

Educator preparation

Community mobilization
A Growing Movement
Conditions for **collective impact**:  
1. common agenda  
2. shared measurement  
3. mutually reinforcing activities  
4. continuous communication  
5. backbone support

No one entity can do it alone
Individual Reflection

Is there a statewide STEM network in your state?  
• Emerging?  
• Strong?  
• Exemplary?  

If yes, is NGSS on its agenda?  

Are you involved?
AHA!
Statewide Networks in Action

- Building advocacy: California STEM Learning Network
- Leveraging existing systems: Washington State LASER
- Fostering grass roots communities of practice: New York State STEM Education Collaborative Institutes
Active in multi-state NGSS convenings
Openly shares with others
Continually learns from/with peers

CALIFORNIA DEPARTMENT OF EDUCATION
NEWS RELEASE

Release: #13-82
September 4, 2013

State Schools Chief Tom Torlakson Announces State Adopts Next Generation Science Standards

SACRAMENTO—New science standards designed to prepare students to thrive in a changing economy were approved today by the State Board of Education, State Superintendent of Public Instruction Tom Torlakson announced.
Washington State’s Story of Building Capacity for Next Generation Science Standards

NGSS Annual Network Meeting for State Leadership Teams & National Partners

February 18 – 19, 2014
Atlanta, GA
• Ellen Ebert, PhD
  Science Director, Teaching & Learning, Office of Superintendent of Public Instruction
  Washington State NGSS Lead
  email:  ellen.ebert@k12.wa.us

• Peggy Willcuts, EdD
  STEM Education Outreach, Office of STEM Education
  Pacific Northwest Nat’l Laboratory
  Co-Director of SE LASER Alliance
  email:  peggy.willcuts@pnnl.gov
Welcome to the New York State STEM Education Collaborative

Established January 2009

Updated: June 19, 2014

New York State is a member of the STEMx coalition

MENU

- Our Mission and Goals
- 2012-13 NYS STEM Collaborative Contacts updated March 4, 2014
- Informative Links, Multimedia, Documents, and Related Information
1. Move into groups by state

2. Start mapping assets for science standards implementation
   - Partnerships: enabling; existing or emerging
   - Practice: professional development structures
   - Systems: leveragable infrastructure

3. Prepare to share an “aha” with the full group
AHA!
Don’t let anybody tell you it’s easy...

Language differences …
Cultural differences …
Political differences …
… Not everyone can do what we do!

Presentation by one of the teams at an NGSS multi-state convening a few years back…