



Desired Outcomes

"the direction we are trying to help influence"

Societal Benefit

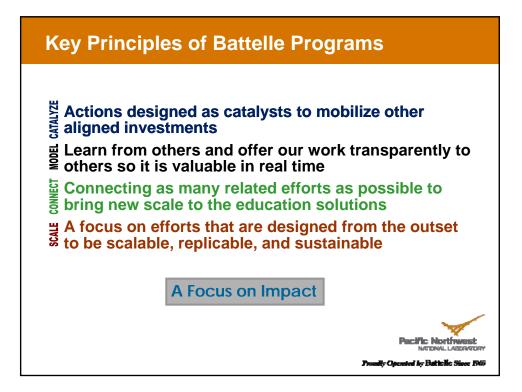
- Increase the number of science and technology literate global citizens, and the number who choose to pursue STEM careers
- Improve the way teachers are prepared in the STEM disciplines
- Make STEM careers more visible, and the path to get there
- Mobilize the power of the private sector as a core partner in education
- Improve early childhood readiness

Renewal and Enlightened Self-Interest

- Build a long term pipeline of new talent available to Battelle and our current/future affiliates by deepening the supply chain
- Diversity
- Enrich regional talent base



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43 years of community and regional stewardship

- Battelle making corporate investments
 - \$124 million in research capabilities and facilities at PNNL
 - \$15.7 million to charitable activities in region
 - Team Battelle hours for 2008
 - 1,795 volunteers
 - 21,137.35 hours
 - Up to 60 projects yearly
- Helping to develop the S&T workforce
 - Reforming science education in Washington
 - Creating entrepreneurs of the future







Supporting economic development

- Jobs
- Technical assistance
- Free technology assistance
- Entrepreneurial assistance
- Access to funding
- Access to specialized equipment and facilities
- Connections to customers, partners, leaders, advisors
- Educational events



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The STEM Education Signature @ PNNL Driver #1: Supporting DOE's National Workforce Goal

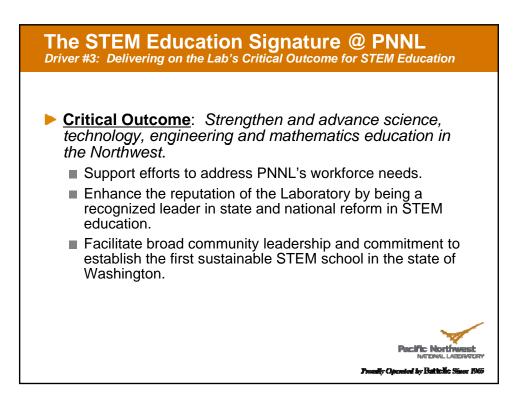
- National Goal: The Office of Workforce Development for Teachers and Scientists (WDTS) will prepare a diverse workforce of scientists, engineers, and educators to keep America at the forefront of innovation. The Department of Energy will utilize its unique intellectual and physical resources to enhance the ability of educators and our Nation's educational systems to teach science and mathematics.
 - Educator Strategy Middle school to undergraduate educators
 - Student Strategy Middle school through undergraduate students DOE-WDTS Future Workforce Strategy (July 2007)

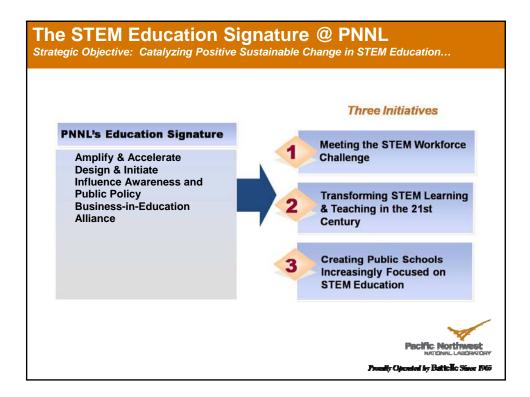


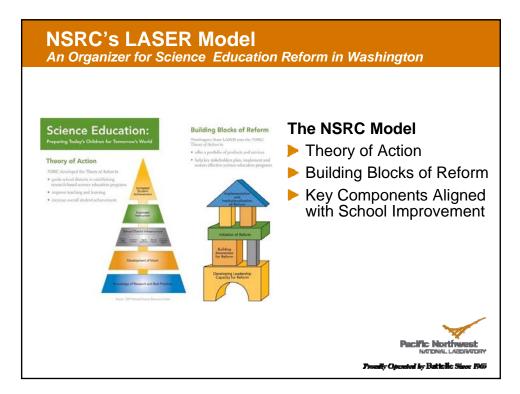
The STEM Education Signature @ PNNL Driver #2: Capitalizing on Battelle's Strategic Framework for Actions

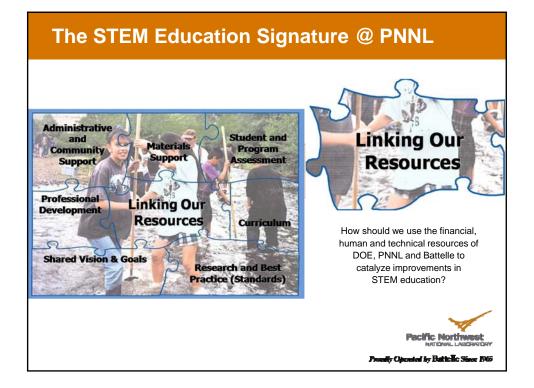
Catalyst for Sustainable Positive Change in **STEM Education at Local-Regional-National Scales**

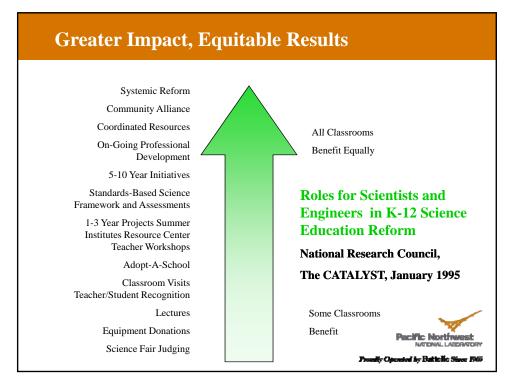
ADVOCACY – AWARENESS - TOOLS		MODEL PROGRAMS	
Policy Shaping	Business-in- Education Alliance	Design & Initiate	Amplify & Accelerate
Bring clarity to problem and raise visibility among leaders who can enact change	Mobilize private sector to action through portfolio of tools and resources: make the private sector an engaged investor in education	Scalable initiatives that use Battelle as founding participant in design process	Advance pace of proven programs that produce results but require additional resources and partnerships to broaden impact
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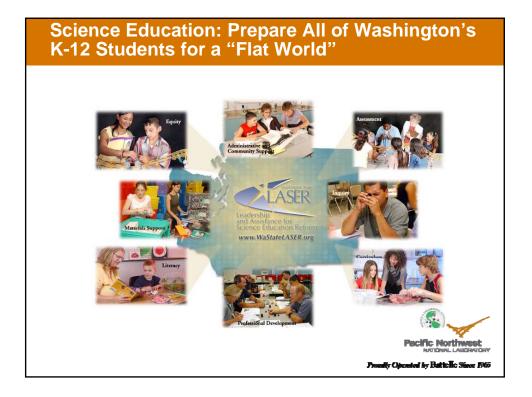


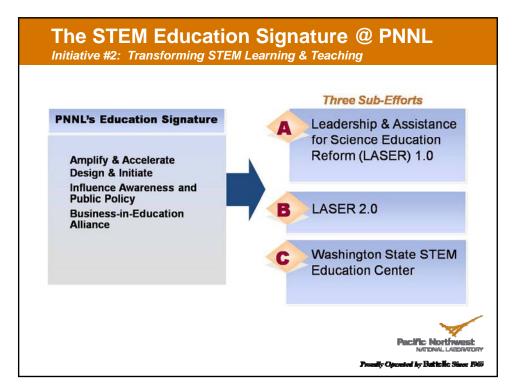


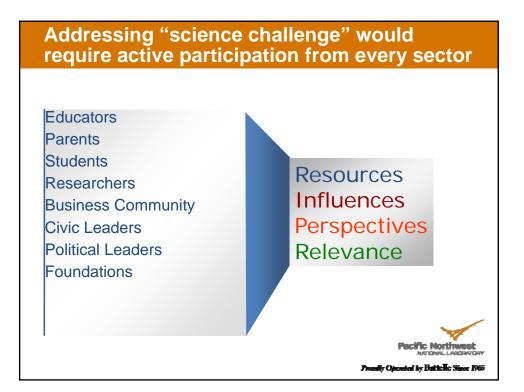








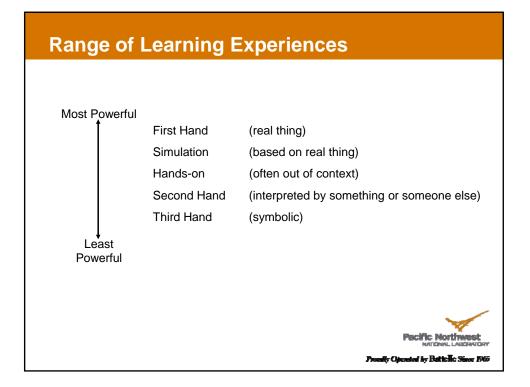


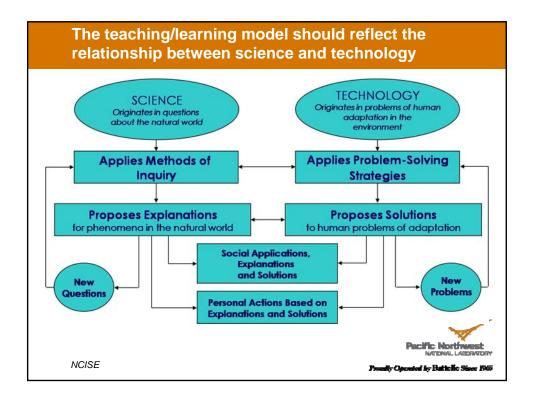


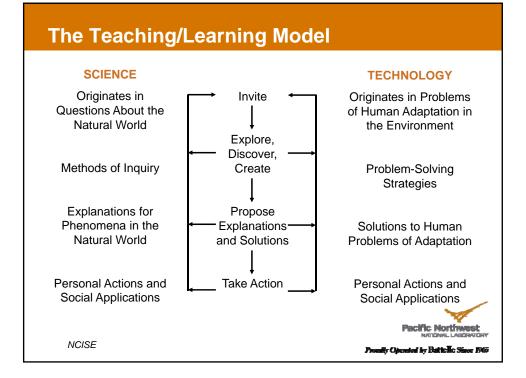
Common Leadership Challenges in Community Initiatives

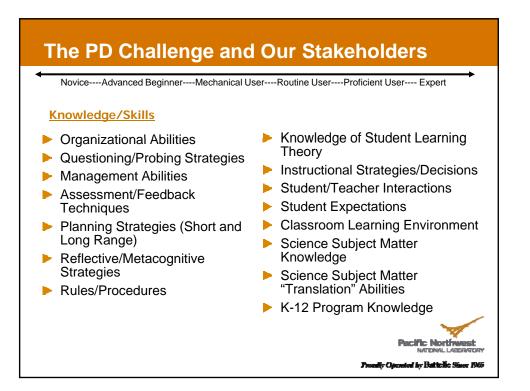
- Achieving goals requires multiple groups to cooperate
- Feeling isolated or ill-qualified
- Influence without direct control
- Lack of resources
- Multiple points of view and motivations
- Distractions
- Parties with vastly different priorities
- Traditional rewards not aligned with group goal
- Not been tried before, or was not successful last time
- Disagreement on process or approach
- Our situation is different; examples from elsewhere don't apply











Promoting and Growing WA State LASER Battelle/PNNL Engagement

Statewide Leadership

Provide "in-kind" support and thought leadership for science policy and program efforts at state level.

Community/Regional Leadership

- Provide staffing, materials and professional development products and services in the Mid-Columbia education leaders.
- Co-Director –WA State LASER,
- Co-Director SE Washington LASER Alliance,
- Lead Facilitator Strategic Planning Institute,
- Lead Facilitator Yakima Valley Tri-Cities LASER Networking Forums,
- Co-facilitator BSCS National Academy for Curriculum Leadership,
- Committee Member OSPI Instructional Materials Review Committee,
- Committee Member OPSI Science Standards Committee,
- Committee Member OSPI Science Assessment Leadership Team, and
- Advocate/Thought Leader Key business and community advocacy and policy organizations,



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Promoting and Growing WA State LASER Battelle/PNNL Engagement

Curriculum

- Provide grants for curriculum materials and implementation.
- Design products to extend, enhance and enrich the "core" science program.

Materials Support

- Provide grants and technical assistance to support science materials center operations
- Provide Battelle grants for curriculum and instruction projects,
- Support scientists and engineers as classroom speakers,
- Sponsor teacher/scientist projects to enhance curriculum,
- Help lead statewide science notebooks project
 Provide leadership for STC curriculum alignment project to WA State Science
- Standards
- Provide volunteers for materials center,
- Purchase curriculum modules, and
- Provide grants to underwrite costs for districts to "buy-in" to program (e.g., delivery system).



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Promoting and Growing WA State LASER Battelle/PNNL Engagement

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Assessment/Evaluation

- Provide leadership for school-based assessment efforts
- Foster improved communication between evaluator and field sites

Interface with evaluator

Business/Community Support

Connect human, financial and technical resources in ways that enhance the LASER partnership

- Curriculum Topic Study Assessment Probes
- Þ STC Modules Pre/Post Assessment Project Þ Communication "conduit" between LASER evaluator and LASER Alliances
- Þ Strategic and tactical planning with LASER's
- lead organizations Legislative activities/government relations
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- Þ Public affairs, advocacy and outreach
- Thought leadership with Governor, Legislature, Washington Business Roundtable and science/technology advocacy organizations Þ
- Lead gifts stimulating additional philanthropy
- Þ PD for scientists and engineers at PNNL



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