Developing the Next Generation Science Standards

Current State of Science Standards

Current State of Science Standards

Science documents used by states to develop standards are about 15 years old

- National Research Council's *National Science Education Standards* were published in 1996
- American Association for the Advancement of Science's *Benchmarks for Science Literacy* were published in 1993

Call for new, internationally-benchmarked standards

- Students in the U.S. have consistently been outperformed on international assessments such as TIMSS and PISA
- States across the country will soon engage in a science revision

NEXT GENERATION SCIENCE STANDARDS

Overview of the Science Standards Development Process

Phase II – Development of the *Next Generation Science Standards*

Process:

In Phase II, Achieve will engage states and other key stakeholders in the development and review of the new standards

Timeline:

Late 2012

Validation:

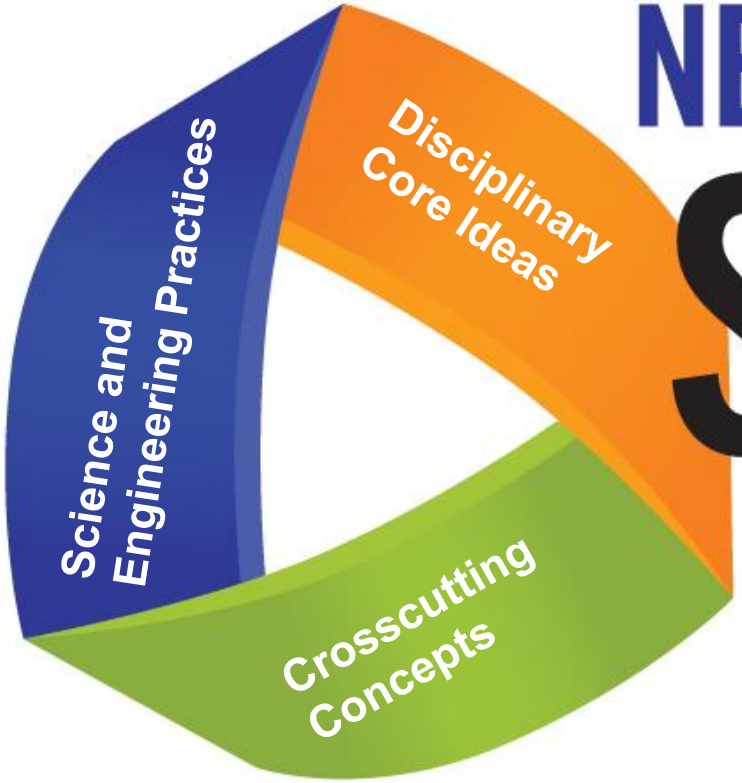
NRC Study Committee members will check the fidelity of the standards to the framework

Vision for Next Generation Science Standards

Next Generation Science Standards for Today's Students and Tomorrow's Workforce:

Through a collaborative, state-led process, new K–12 science standards are being developed that will be rich in content and practice, arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The NGSS will be based on the *Framework for K–12 Science Education* developed by the National Research Council.

NEXT GENERATION SCIENCE STANDARDS



NEXT GENERATION SCIENCE STANDARDS

NEXT GENERATION SCIENCE STANDARDS

Involvement of Various Stakeholders

Process for Development of *Next Generation Science Standards*

Achieve will engage states and other key stakeholders in the development and review of the new college and career ready science standards

- State Led Process
- Writing Teams
- Critical Stakeholder Team

NRC Study Committee members to check the fidelity of standards based on framework

NEXT GENERATION SCIENCE STANDARDS

Lead Partner States

- Open invitation to all states to apply to be Lead Partner States.

- During the development process, 26 states will provide leadership to the writers and other states as they consider adoption of the NGSS and address common issues around adoption and implementation

NEXT GENERATION SCIENCE STANDARDS

Lead State Partners

- Arizona
- Arkansas
- California
- Delaware
- Georgia
- Illinois
- Iowa
- Kansas
- Kentucky
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Montana
- New Jersey
- New York
- North Carolina
- Ohio
- Oregon
- Rhode Island
- South Dakota
- Tennessee
- Vermont
- Washington State
- West Virginia

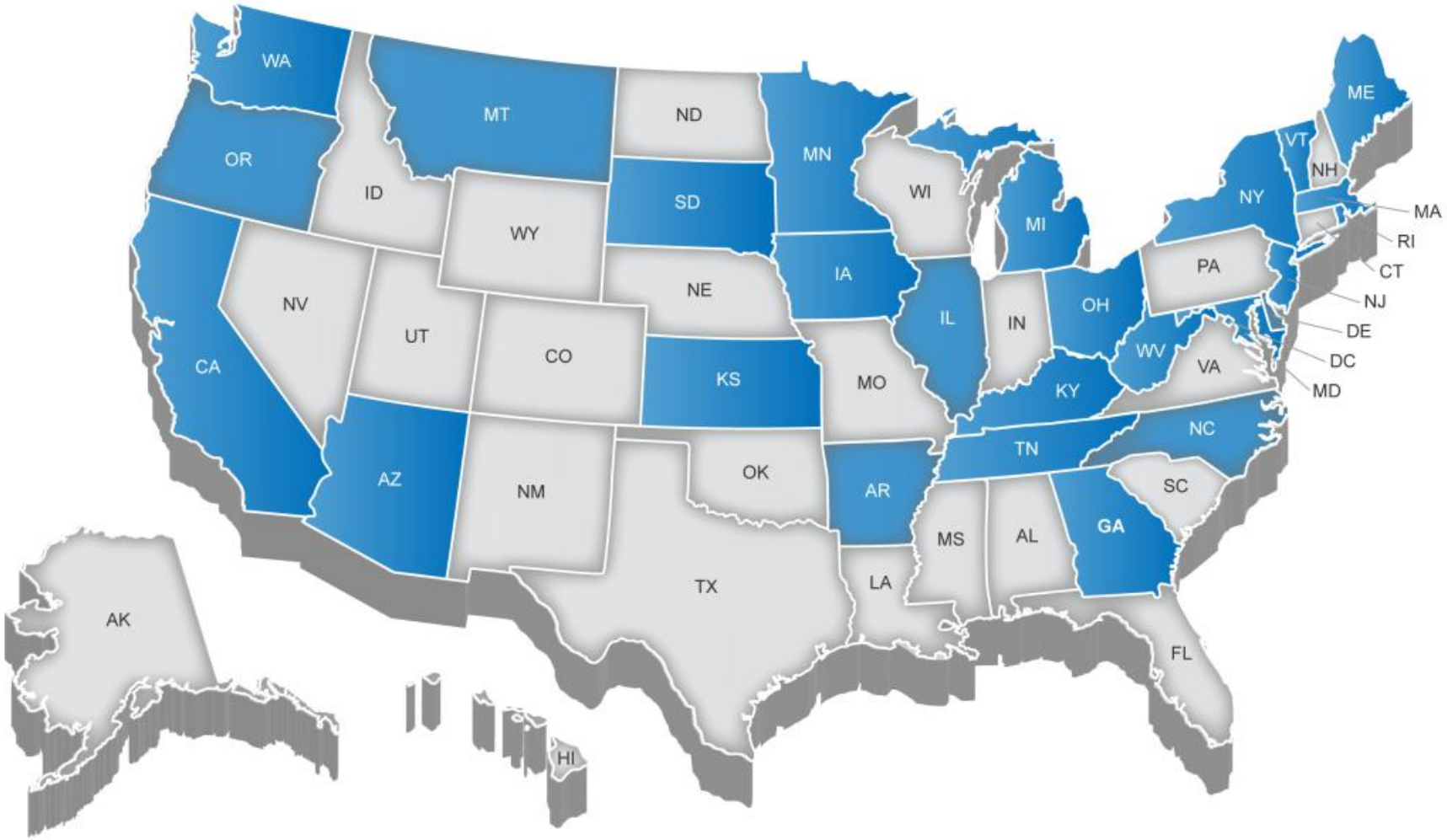
NEXT GENERATION SCIENCE STANDARDS

Key Features of Lead Partner States

- As a whole group, Lead Partner States have the following characteristics
  - Broad Geographic Representation
  - Account for 58% of the nation's public school students
  - A bipartisan collection of states based on current governor
  - Are in one of the assessment consortia
  - Slightly more than half have grade-by-grade standards through grade eight
  - Most require three years of science for high school graduation

NEXT GENERATION SCIENCE STANDARDS

Lead State Partners

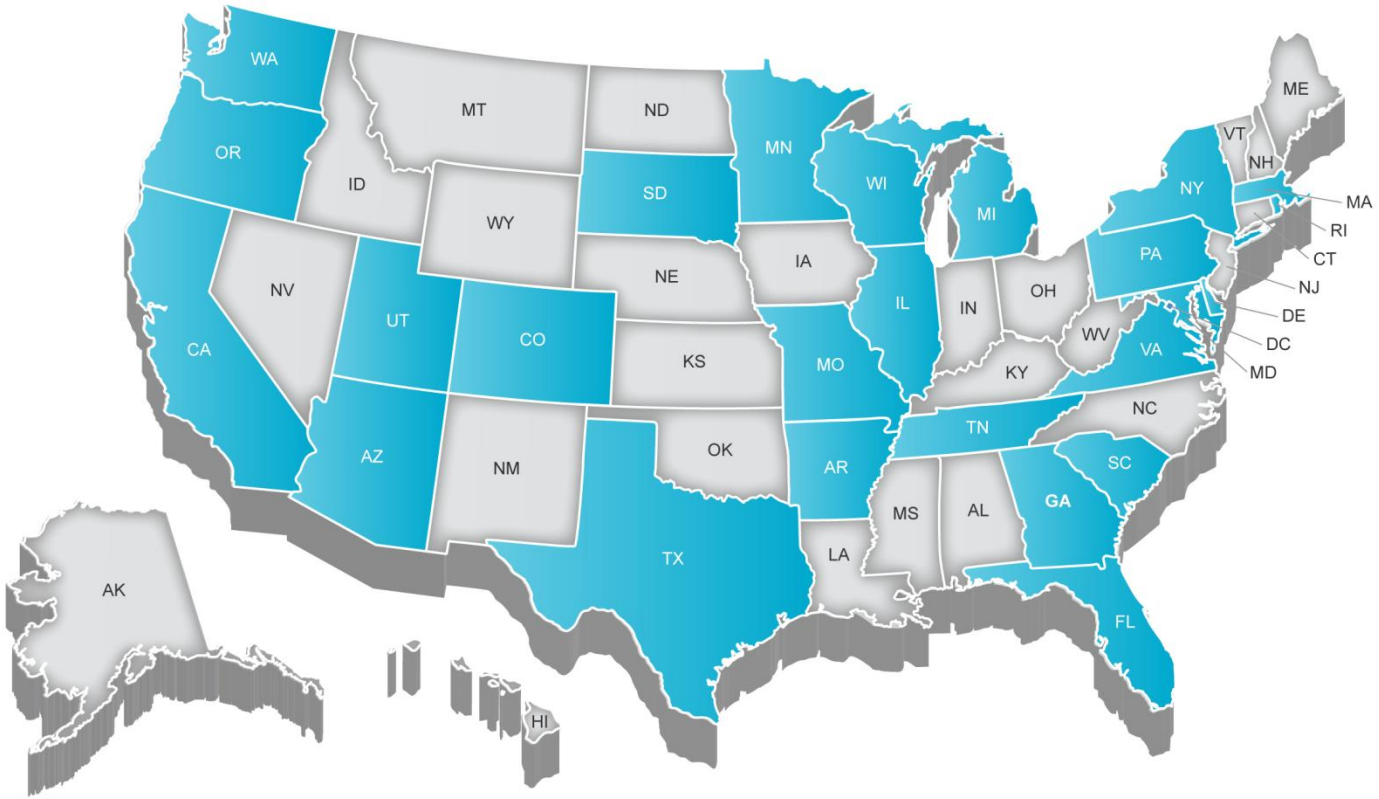


NGSS Writing Team

- Will write the standards based on the NRC's *Framework for K-12 Science Education*
- 41 members with expertise in teaching at all grade levels, working with students with disabilities, English language acquisition, state level standards/assessment, workforce development, engineering, technology, and life, earth and physical science
- Includes prominent scientists and academics that have working knowledge of science standards
- Selected based on recommendations from various groups including NSTA and the Council of State Science Supervisors
- Led by the K-12 and postsecondary education community

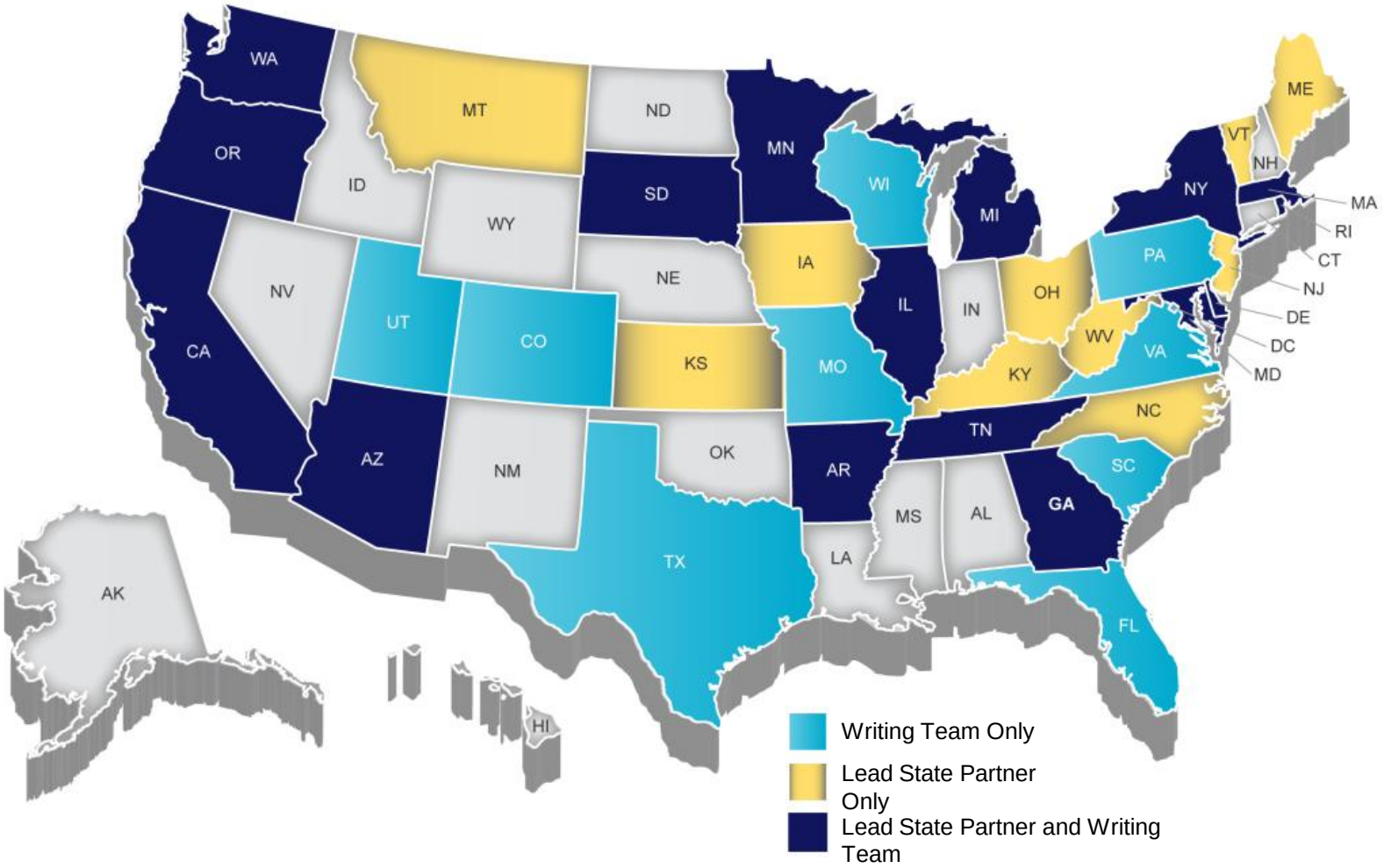
NEXT GENERATION SCIENCE STANDARDS

NGSS Writing Team Members



NEXT GENERATION SCIENCE STANDARDS

Lead State Partners and NGSS Writing Team



Critical Stakeholders

The Critical Stakeholders are distinguished individuals and organizations that represent education, science, business and industry and who have interest in the Next Generation Science Standards. The members are drawn from all 50 states and have expertise in:

- Elementary, middle and high school science from both urban and rural communities
- Special education and English language acquisition
- Postsecondary education
- State standards and assessments
- Cognitive science, life science, physical science, earth/space science, and engineering/technology
- Mathematics and Literacy
- Business and industry
- Workforce development
- Education policy

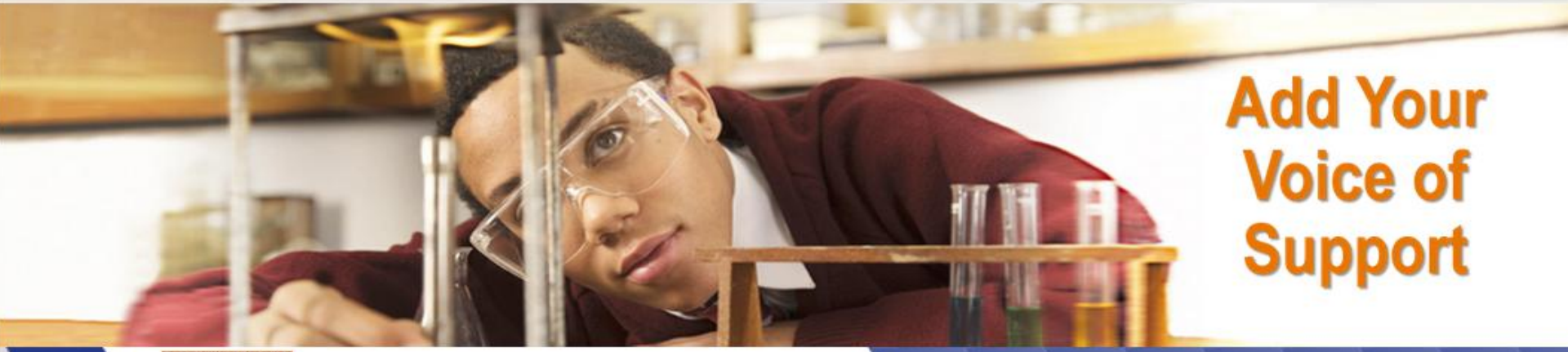
- The Critical Stakeholders will critique successive, confidential drafts of the standards and provide feedback to the writers and states, giving special attention to their areas of expertise.

NEXT GENERATION SCIENCE STANDARDS

Public Feedback

- The standards will be open for two rounds of public feedback to help guide the writing team.
- Feedback will be aggregated and made public.
- The first draft of the standards will be available on nextgenscience.org in early 2012.

NEXT GENERATION SCIENCE STANDARDS



CURRENT PHASE

Standards development is underway!

Learn more about the standards development process

Roll over the arrows to the right to see upcoming development phases

1 2 3 4 5 6 7 8 9

About NGSS

Next Generation Science Standards for Today's Students and Tomorrow's Workforce: **Through a collaborative, state-led process, new K–12 science standards are being developed that will be rich in content and practice, arranged in a coherent manner across disciplines and grades to provide all students an internationally benchmarked science education. The NGSS will be based on the *Framework for K–12 Science Education* developed by the National Research Council.**

Latest News

States to Lead Effort to Write New Science Standards
September 20, 2011

Maine Picked to Help Develop New Science Standards
September 14, 2011

National Research Council Releases Science Framework
July 19, 2011

Resources

Coming Soon

Contact Information

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