



**STEM Education Opportunities and the
Every Student Succeeds Act
(ESSA)**

Presented by: David Evans, James Brown, and Caroline King

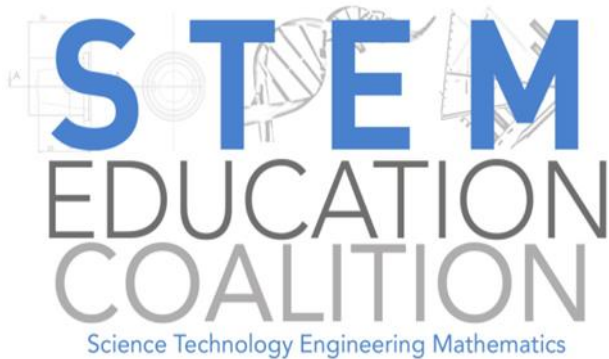
October 5, 2016

6:30 p.m. ET / 5:30 p.m. CT / 4:30 p.m. MT / 3:30 p.m. PT

STEM Education Opportunities and the Every Student Succeeds Act (ESSA)

October 2016

STEM Education and the Every Student Succeeds Act



Introducing today's presenters...

David L. Evans

Executive Director, NSTA



James Brown

STEM Education Coalition



Caroline King

Washington STEM



~~No Child Left Behind~~

Every Student Succeeds Act



President Obama Signs the Every Student Succeeds Act on December 10, 2015

ESSA/STEM



- Reduces federal footprint in K-12 education. Decisions back to states/districts to meet the needs of all students.
- Math and Science Partnership eliminated
- Funds STEM activities throughout the law
(Title II and Title IV block grants for STEM)
- Eliminates Waivers/Teacher Evaluations
- Science Testing Continues

Overview of the New Law



No Child Left Behind Act

High stakes focus on math and reading, to the exclusion of other subjects.

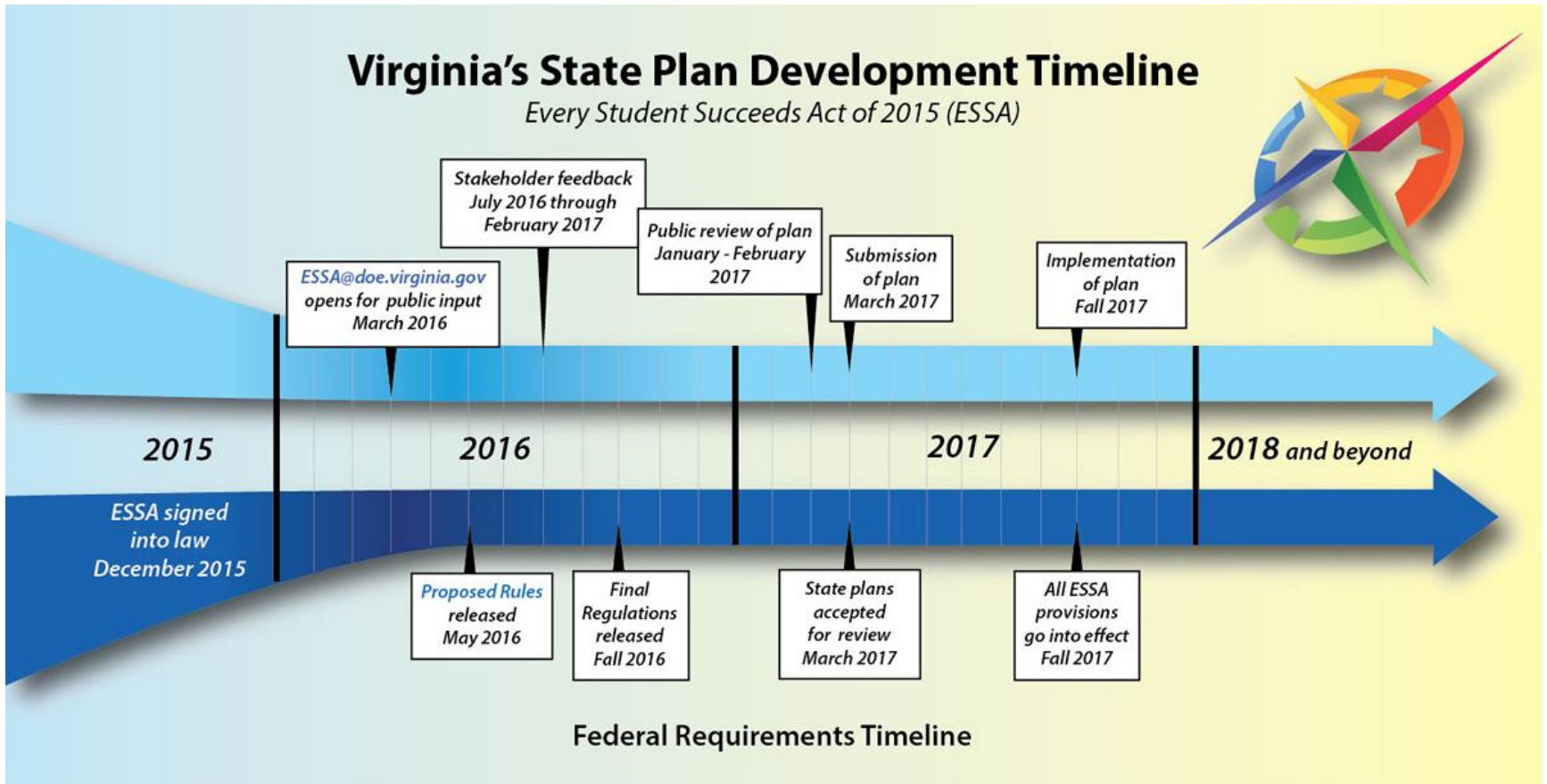
20+ funding streams to states, with priorities set in federal law

Every Student Succeeds Act

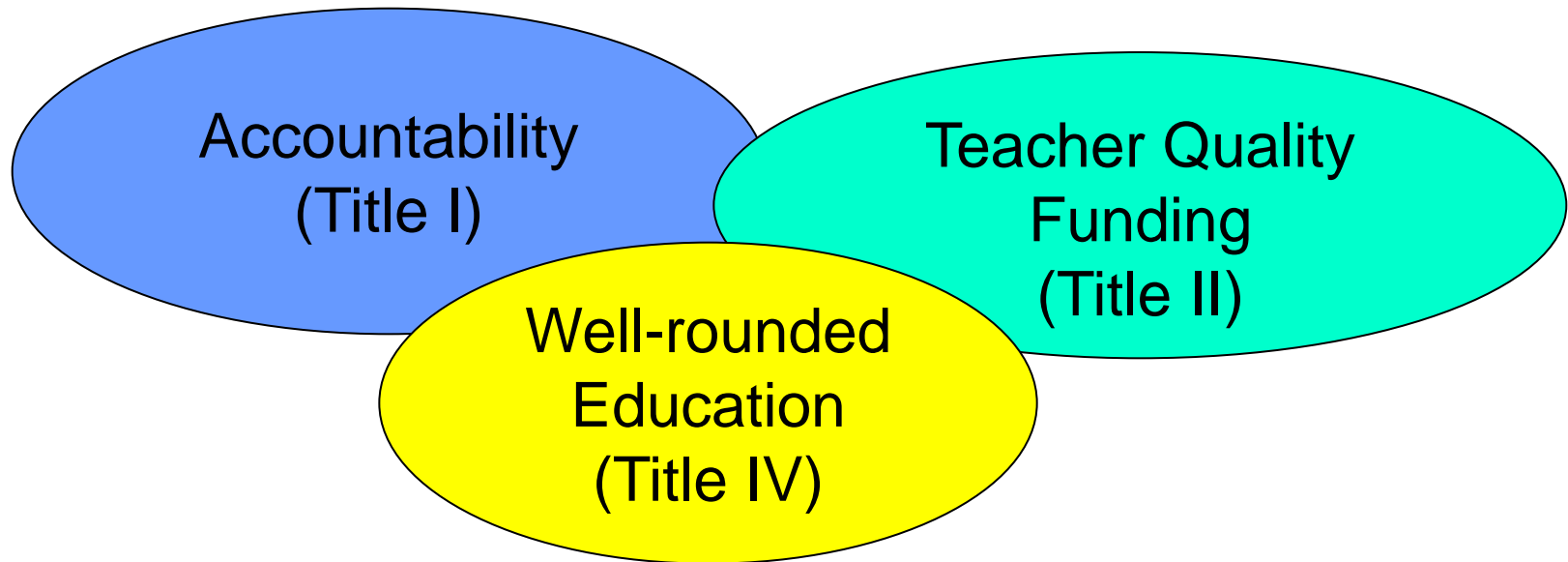
Math and reading still tested (along with science), but accountability decisions made at state level

Massive consolidation of federal funding into a few state and district block grants

State Time Lines for ESSA Implementation



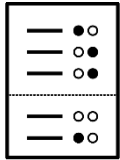
Three Main Areas of Focus for ESSA and STEM



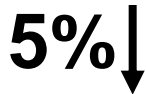
Accountability: Every Student Succeeds Act Shifts Major Decisions Back to States



States may now develop their own methods for judging school quality, which allows states to consider more qualitative factors such as results from parent and student surveys



Students will still have to be tested in math and reading every year between third and eighth grade, and once per grade band in science, however states now have significantly more control in deciding how these scores are utilized when building education reform programs



States are still required by the federal government to **intervene in schools performing in the bottom 5 percent**, however it is up to local governments to decide how reforms will take shape



Student data will still be separated into subgroups based on race, income and disability status to prevent gaps in education, however **states are able to develop their own plans to ensure equality** across various demographic groups. In addition, states will have the responsibility to design their own systems for judging schools.



Break for Questions



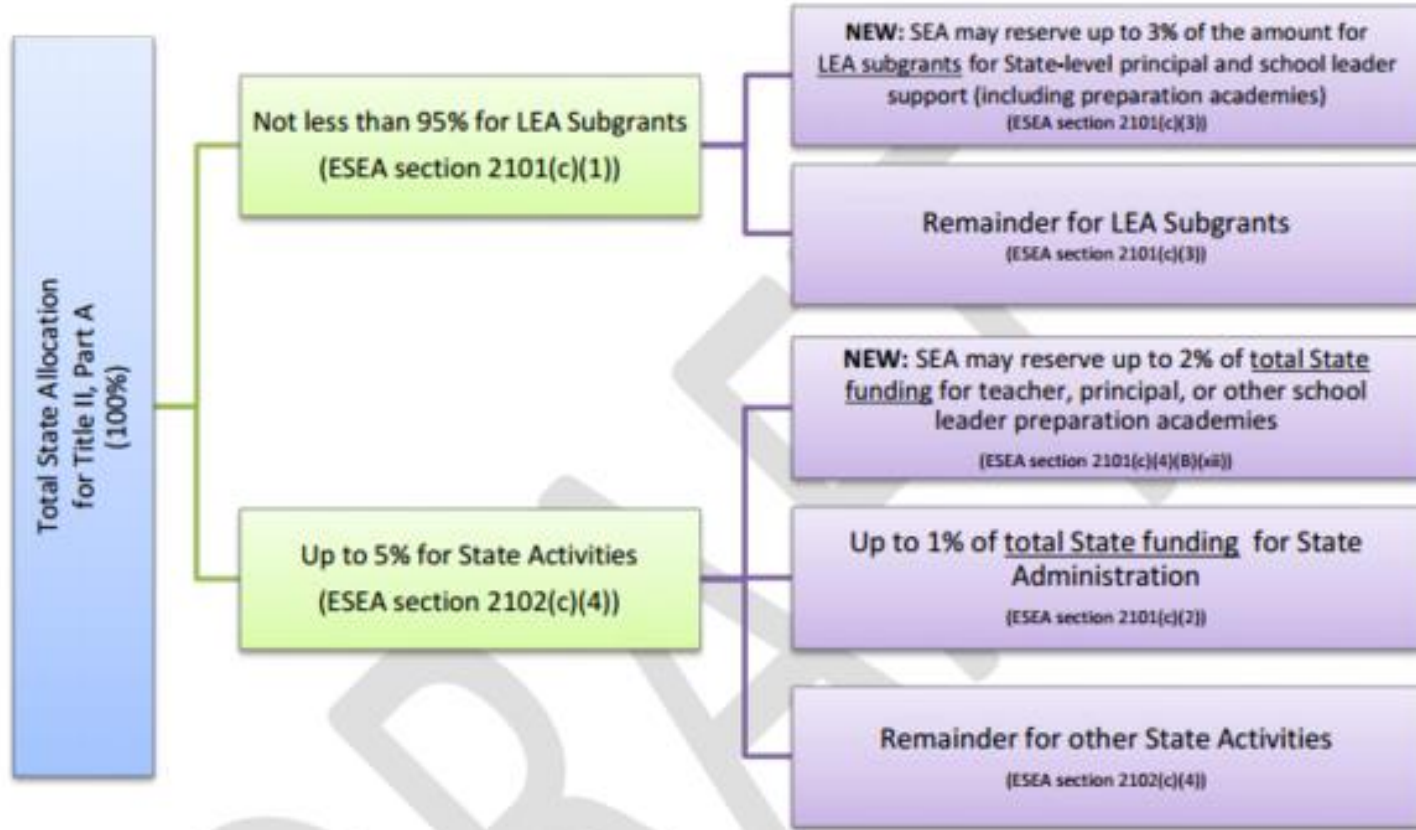
Let's pause for three questions from the audience





Teacher Quality Funding in Title II

The Flow of Title II, Part A Funding

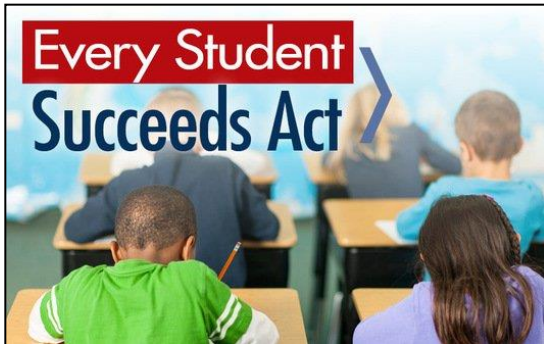


Source: Education Week

Possible Uses of Title II Funding



Authorized at \$2.3 billion



Funds can be used for:

- ❖ Teacher evaluation systems
- ❖ Professional development
- ❖ Teacher recruitment and retention
- ❖ Class size reduction
- ❖ Differential pay (w/ priority for STEM)
- ❖ Support for STEM content/PD/activities
- ❖ Selecting and implementing formative assessments
- ❖ CTE
- ❖ Mentoring and induction
- ❖ Integrating technology into curricula/instruction
- ❖ Early childhood programs

Well Rounded Education: Student Support and Academic Enrichment Grants



- ❑ New Title IV A Formula Grant Program
- ❑ \$1.65 billion authorized.
 - ✓ House FY17 funding bill: \$1 billion
 - ✓ Senate FY17 funding bill: \$300 million
- ❑ Districts receiving more than \$30k must conduct a needs analysis.
- ❑ They must also use at least 20% of their grant for activities to support a well-rounded education, and at least 20% for activities to support safe and healthy students, and funds to support the effective use of technology.





Title IV.A Uses of Funds

Can be used by districts for:

- ❑ Safe and drug free schools
- ❑ Mental health counselors
- ❑ Counseling
- ❑ Music education
- ❑ Civics
- ❑ IB/AP testing
- ❑ **STEM**

And . . .

- ❑ Drug and violence prevention
- ❑ Training on trauma-informed practices,
- ❑ Health and physical education
- ❑ Effective use of technology

STEM-specific Uses of Funding Under Title IV.A



Supports activities to provide students with a well-rounded education. These funds can be used to:

- Expand high-quality STEM courses;
- Increase access to STEM for underserved and at risk student populations;
- Support student participation in STEM nonprofit competitions;
- Provide hands-on learning opportunities in STEM;
- Integrate other academic subjects, including the arts, into STEM subject programs;
- Create or enhance STEM specialty schools – new definition created;
- Integrate classroom based and afterschool and informal STEM instruction; and
- Expand environmental education.





What do you think will be the top three ways your district will use Title IV funds?



(use your clip art to answer)

| | | | |
|----------------------------|---------------------------------------|------------------------------|-------------------------|
| Safe and drug free schools | Training on Trauma informed practices | Mental health counselors | Counseling |
| | | | |
| Music education | Health and physical education | Civics education | STEM education programs |
| | | | |
| Integrating technology | IB/AP Testing | Drug and violence prevention | |
| | | | |

Implications and Advocacy



- The Every Student Succeeds Act vastly expands the resources available to states and district that can support STEM education and will broaden the focus of learning beyond math and reading, creating a myriad of new STEM learning opportunities, **BUT...**
- With increased local autonomy, there are no guarantees that states and districts will use funds for these purposes, **AND...**
- Many state and district officials are not yet aware of the opportunities to use federal funding to support activities that are not tied to math or reading, **SO...**
- **Advocates need to get out the message that ESSA CAN be used to advance STEM education – if we get states/districts to use the law for that purpose**

Our State Policy Goals



- States (and districts) should use **Title IV.A funding to support STEM purposes.**
- ...should utilize science assessments as part of accountability systems to **make science count.**
- ...use Title I funds to **create or improve science assessments for states**, especially states implementing new science standards.
- ...use Title II funding for **professional development for teachers on STEM content** and develop STEM leaders and mentors.
- ...use Title II funding to expand alternative certification of STEM teachers and **differentiated pay and other incentives for STEM educators.**



What Can Advocates Do?



- Find your state's ESSA plans and review them.
- Attend town hall meetings and other public forum's on ESSA.
- Write to your state and district leaders and urge them to make STEM education a priority.
- Reach out to other state partner organizations that share your STEM goals.
- Contact us for assistance and further materials and to share what you are seeing.



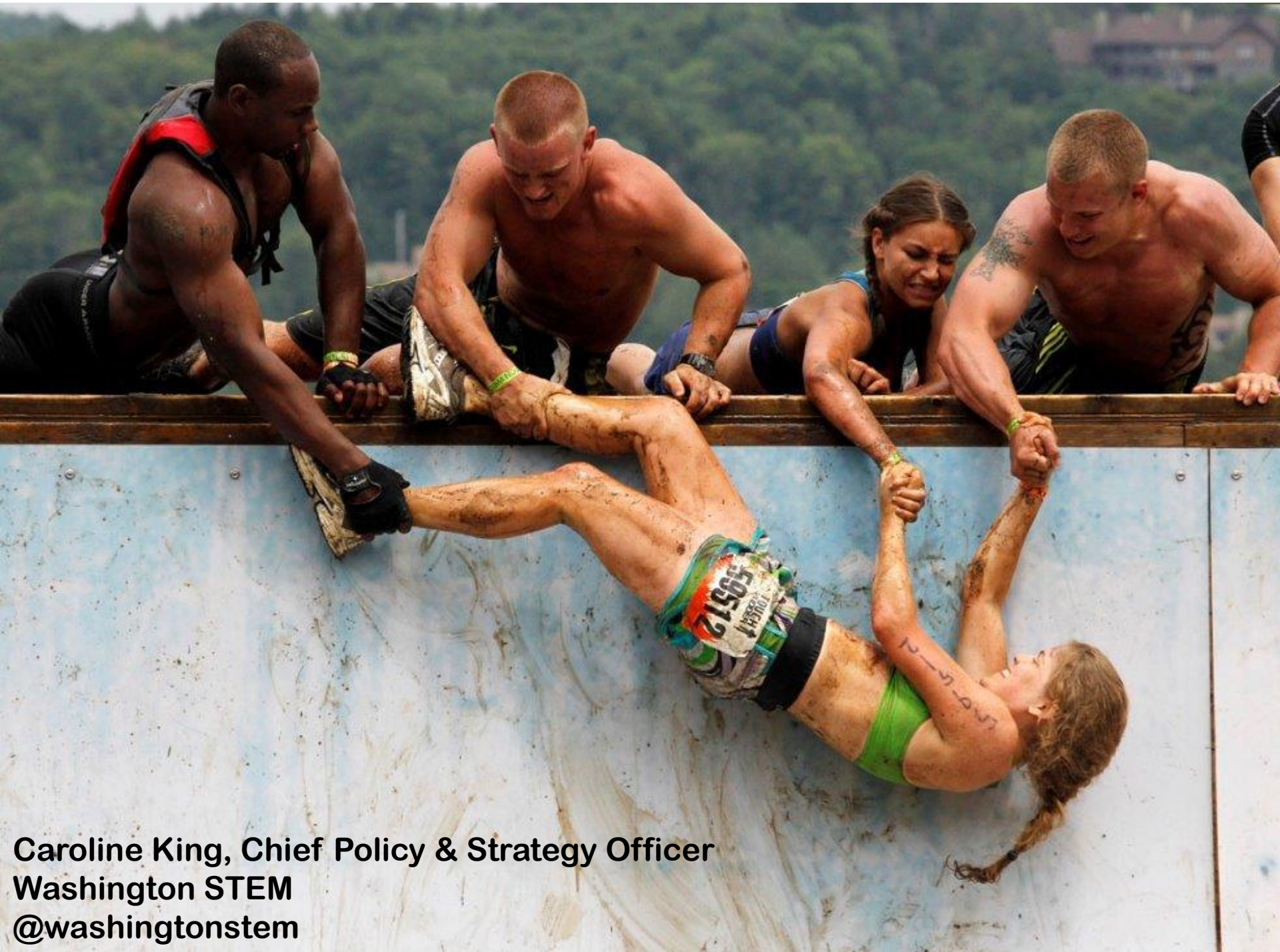


Break for Questions



Let's pause for three questions from the audience





**Caroline King, Chief Policy & Strategy Officer
Washington STEM
@washingtonstem**

FUTURE READY WASHINGTON



Young Washingtonians have the technical and critical skills needed to thrive in today's jobs and create and excel in the unknown jobs of tomorrow as well as exemplify opportunity and create shared prosperity for our communities.

Washington STEM and our regional Networks and partners aspire to a Future Ready Washington.

Together, here's what we plan to achieve by 2025. >>>

Our work is organized in four priority initiatives:



Computer Science



Career Connected Learning



Early Math



Science & Engineering

We advance this work by building partnerships, leveraging policy, and expanding innovation.

In all our work we focus on:



Equity

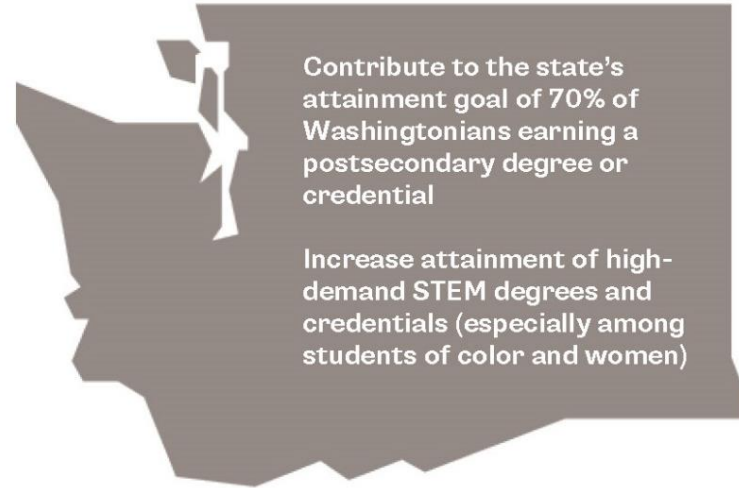
All students deserve the opportunities that come with being STEM ready. We focus our work and encourage networks to target gaps in gender, race, income, and geography.



Teaching Quality

Quality instruction can unlock so much student potential. We support professional development, standards implementation, resource dissemination in service of these objectives.

Increase STEM access, interest, and success for all students



Contribute to the state's attainment goal of 70% of Washingtonians earning a postsecondary degree or credential

Increase attainment of high-demand STEM degrees and credentials (especially among students of color and women)



All K-12 students have access to Computer Science learning opportunities



All high school graduates are aware of and prepared to succeed in a STEM degree or job pathway



All of Washington's children enter kindergarten and reach 3rd grade on-track in math



All students demonstrate proficiency in science & engineering practices

WASHINGTON STATE ESSA + STEM



State Supt. Dorn leading ESSA Consolidated Plan

- **Timeline:** Draft mid-November; intent to submit December
- **Process:** Leadership team, workgroups, public forums and comment
- **Priorities:** Student outcomes, equity, professional learning, teacher shortage and aligned accountability
- **Context:** November Elections, Supt. Dorn retiring, K-12 funding lawsuit
- <http://www.k12.wa.us/ESEA/ESSA/default.aspx>

WASHINGTON STATE ESSA + STEM



Opportunities: State and district levels

- Prioritize STEM as a lever for closing opportunity gaps and improving readiness for postsecondary, training and great jobs
- Affirm college and career-ready standards: Math, Science, CTE, Computer Science
- Pursue Innovative Assessment Competition and reimagine accountability system
- Provide districts and communities with best practices for STEM professional learning, student supports, and out of school programs



Break for Questions



Let's pause for three questions from the audience



Thank you to today's presenters...



David L. Evans

Executive Director, NSTA



James Brown

STEM Education Coalition



Caroline King

Washington STEM





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National Science Teachers Association

David Evans, Ph.D., Executive Director

Al Byers, Ph.D., Assistant Executive Director, Strategic
Development and Research

NSTA Web Seminar Team

Flavio Mendez, Senior Director, NSTA LC

Eddie Hausknecht, Web Developer, NSTA LC

Alexandra Wakely, e-Learning Coordinator, NSTA LC

Amanda Wolfe, e-Learning Engagement Specialist, NSTA LC

Don Boonstra, NSTA LC