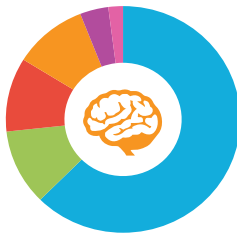


## Unleashing Curiosity

**305,694+**  
Student Experiences



- Math Personalized Learning
- Innovation Incubator Grants
- Computing Partnerships
- Elementary STEM Show
- STEM Fest
- STEM in Motion

## Connecting Community

**85+**  
Districts & Charters

**250+**  
Community Partners

**10+**  
Government Agencies

**9+**  
Higher Education Partners

## Building Capacity

**12,604+**  
STEM Professional Learning opportunities  
For teachers, facilitators, and administrators statewide



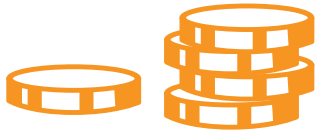
## Adapting & Innovating

**157** STEM kits distributed

**10+** new distance learning programs

**\$70K** supporting COVID-19 relief

Small dollar amounts



given directly  
to people with  
great ideas

can have huge impacts



Funding allowed underrepresented students from around the state to participate in STEM competitions

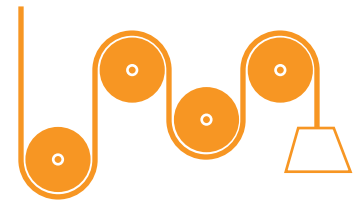
## Quick Facts

208 Ideas Funded 

33,057+  Students

 156  
Schools Impacted

29 Organizations Supported 



28 students experimented with pulleys, inclined planes, levers, sparking a love of science for an entire first grade classroom



Alliance for Innovative Education doubled the number of girls participating in STEM programming in a rural community

Participating in  
two STEM competitions made students  
three times more likely to want a STEM job\*

\*International Journal of Science Education

## Supporting STEM in Utah

The Utah STEM Foundation works to support a STEM-competitive workforce through collaborations with industry and community partners to increase engagement and industry alignment for STEM education.



of funding received by the foundation is invested back into the community to support STEM in Utah.

## Foundation Funding Priorities:



### Workforce

Students will thrive in STEM and contribute to Utah's workforce



### Girls

We will work to close the gender gap in STEM fields



### Innovation

We will use creativity and innovation to solve challenging problems



### Social Justice

We will provide Utah communities with equitable access to STEM opportunities

## Company Support During COVID-19

The Utah STEM Foundation has worked with several industry partners to donate over \$70,000 in personal protective equipment (PPE), 3D Printers, and operational assistance to Arts and Humanities non-profit organizations during the pandemic.



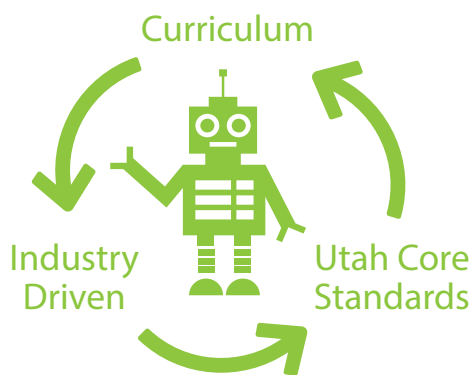
## In-Kind Highlight: New STEM Hub

MHTN Architects contributed several hundred hours and other in-kind contributions designing the new STEM AC offices, including the Innovation Hub.

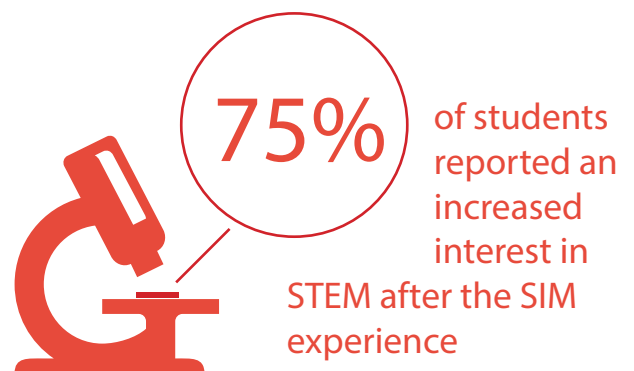
R&O Construction contributed nearly \$40,000 in in-kind work for the Innovation Hub.

STEM in Motion (SIM) is a mobile education program that works with schools and communities across Utah to provide hands-on learning and inspire the next generation of STEM leaders.

## Curriculum



## Student Impact



## Quick Facts

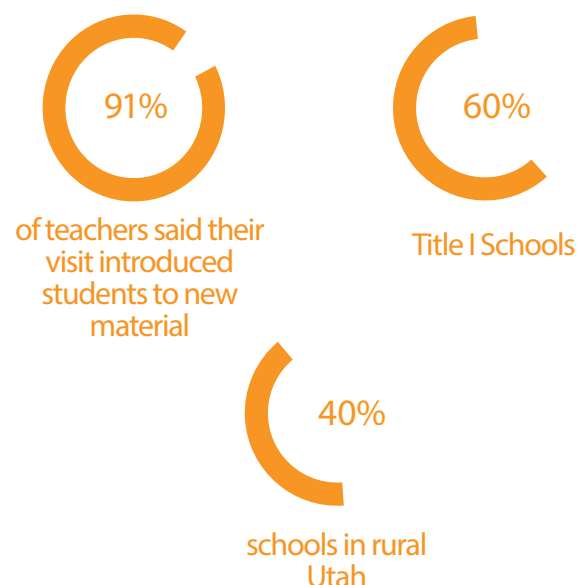
6,171 students impacted

47 schools visited

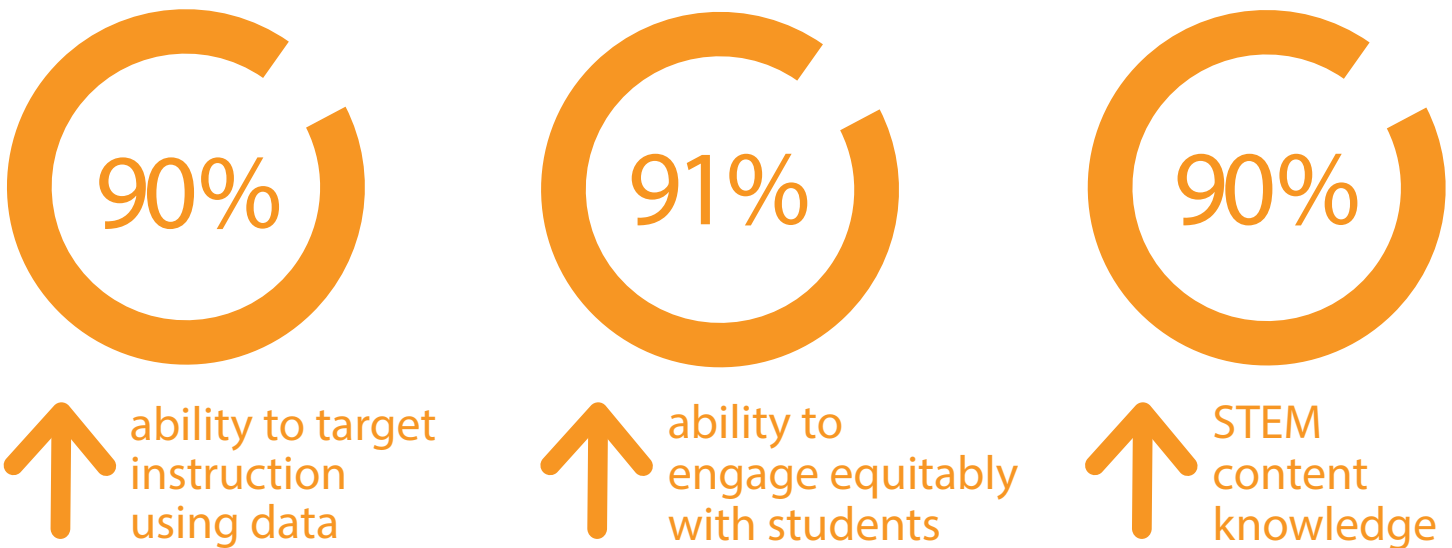
17 school districts

10 new STEM kits

## Equity & Access



## Percentage of teachers who reported positive impacts:



### STUDENT OUTCOMES

Teachers reported increases in students' ability to:



- communicate
- collaborate
- think critically
- think creatively



- be self directed learners



- solve real world problems

### QUICK FACTS

10,519 teacher and administrator participants



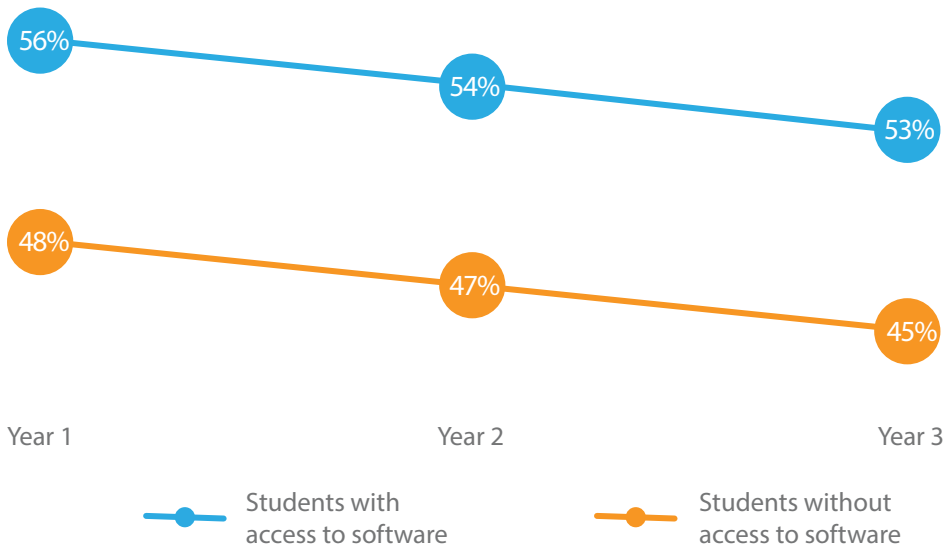
68 locally designed STEM professional learning plans



53 multi-year projects, showing long term commitment and teacher buy-in

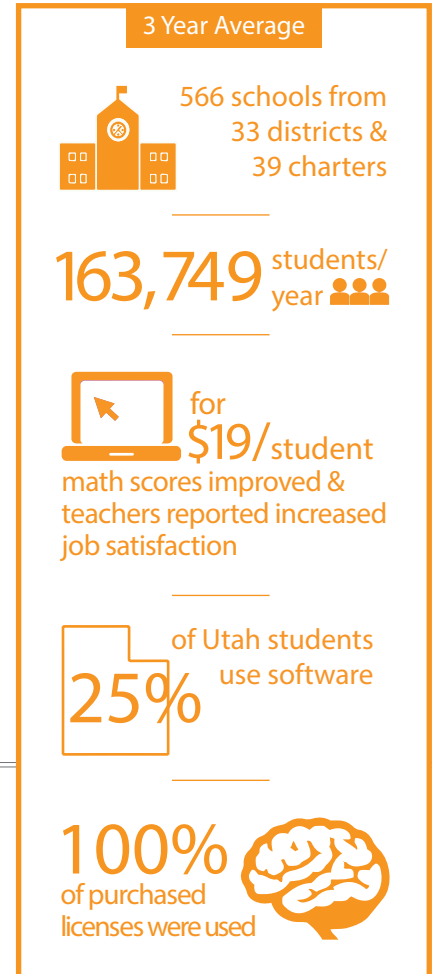


Over three years, students who used math software were **consistently more likely to be proficient in math** than similar students with no access to STEM AC approved math software.\*



Teacher and administrator commitment, support, and feedback averaged from three years of survey information.

- **80%** of teachers agreed the software **increased their instructional effectiveness.**
- **95%** of teachers agreed the software **helped students strengthen important skills.**
- **95%** of administrators agreed the software **had a positive impact on students' math performance.**
- **71%** of teachers agreed the math software **increased their satisfaction with their job.**



\*Programs assess students' understanding of math and provide personalized content, adaptively targeting knowledge gaps and providing immediate feedback. Of the six providers on the approved vendor list (AVL), two programs had sufficient data for longitudinal analysis.

The K-12 Mathematics Personalized Learning program provides resources to LEAs and schools through a competitive grant process to support the use of mathematics software that is individualized, self-adapting, engaging, and provides frequent feedback while addressing core standards in math. The Utah Education Policy Center, a research center at the University of Utah, provides external evaluation for the program.

The Computing Partnerships program helps identify gaps in, and provide solutions for, computing opportunities for students and teachers in Utah.

## TEACHER OUTCOMES

Teachers reported increases in their ability to:



provide equitable opportunities in computing



develop project-based teaching strategies



use technology to enhance student learning



## QUICK FACTS

32,260 students impacted



1,847 teacher participants

350 new class sections

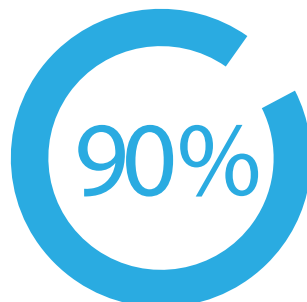


59% of projects in rural Utah

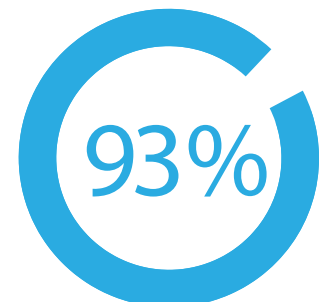
Percentage of teachers reporting positive student impacts:



confidence in ability to use computers



technical skills related to computing



value of computing in careers