



IDAHO
STEM
ACTION CENTER



Senate Education Committee Presentation

Dr. Kaitlin Maguire

February 1, 2021

STEM and Idaho's Economy

19 of the 20
"HOT JOBS"
in Idaho require

**STEM
SKILLS.**

IDAHO
jobs requiring
STEM SKILLS
are expected to grow by
16.3% by 2028.

**IDAHO'S
TECH SECTOR**
is the
THIRD FASTEST GROWING
in the nation at **4.2%**

Idaho's STEM jobs
**PAY NEARLY
TWICE THE
MEDIAN WAGE**
of non-STEM JOBS.

Within 10 years,
90% OF JOBS
will require
DIGITAL SKILLS.





**STEM Education
builds
21st Century
Skill Development**





Parents

- **92%** believe their community should invest more in STEM
- **99%** would like their child to pursue a STEM career



STEM Action Center Board



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Idaho STEM Statutes

STEM Action Center

Idaho Code [67-823](#), 2015

Computer Science Initiative

Idaho Code [33-1633](#), 2016

STEM Education Fund

Idaho Code [67-824](#), 2016

STEM School Designation

Idaho Code [33-4701](#), 2017

STEM Diploma

Idaho Code [33-523](#), 2018

Computer Science for All

Idaho Code [33-1634](#), 2018

Idaho Education Tax Credit

Idaho Code [63-3029A](#)



As Legislated in Idaho Code

(§67-823, §33-1633, §33-4701, §33-1634, and §33-523)

5 Broad Areas of Impact

Coordinate
state-level
STEM-related
activities

Promote
STEM
through best
practices in
education

Support
high-quality
professional
development
and grants for
educators

Facilitate
STEM-related
competitions,
fairs, camps,
and student
programs

Engage
private industry
in the development,
implementation, and
sustainability of
STEM AC programs



STEM AC Strategic Goals

1. Advance equitable **access** to high-quality STEM+CS opportunities for educators, students, and communities



2. **Align** education and workforce needs throughout Idaho

3. Increase **awareness** of the importance of STEM throughout Idaho



Goal 1: ACCESS

- i-STEM Summer Institutes

- 36 workshops in 6 regions
- >400 Idaho public educators
- In partnership with SDE, STEM businesses and higher education
- Train-the-trainer model



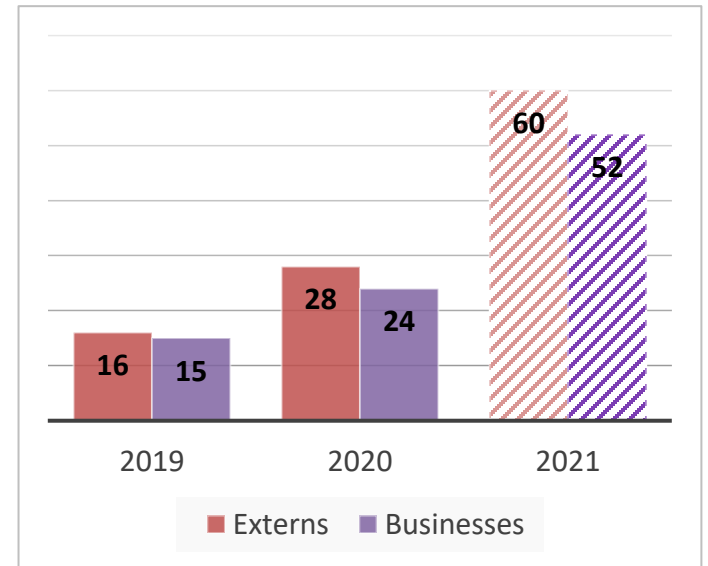
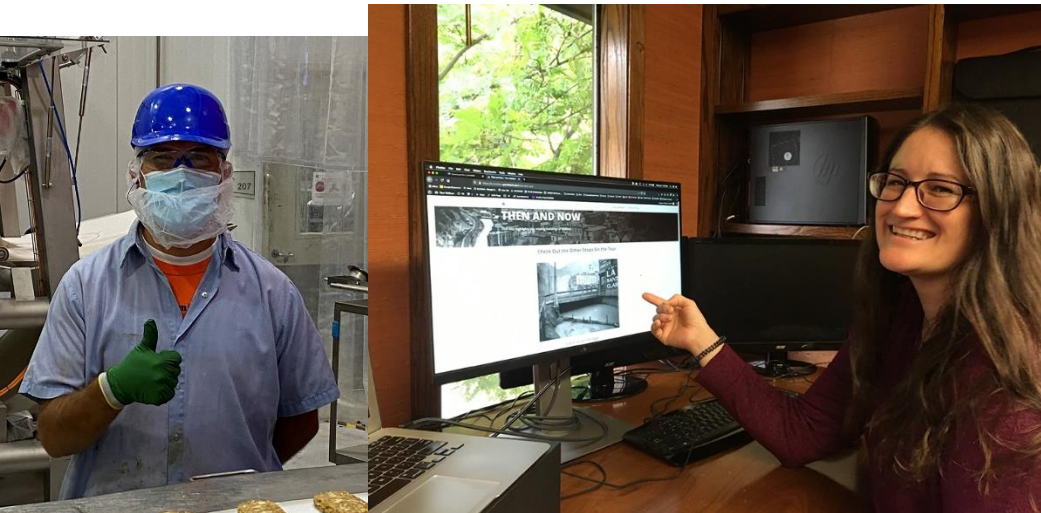
- Idaho Science and Engineering Fairs

- 3 regional fairs
- 300 students in 2020 (48% rural; 50% girls)
- In partnership with STEM businesses and higher education

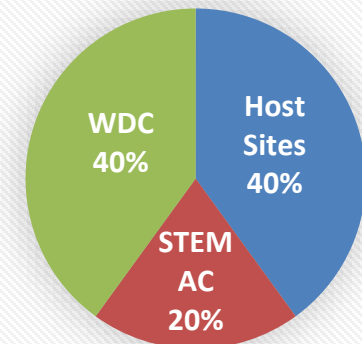


Goal 2: ALIGNMENT

Educator Externships



2020 Stipend Costs



Goal 2: ALIGNMENT

STEM Designated Schools (§33-4701)

- **Barbara Morgan STEM Academy**, K-5, West Ada
- **Bingham Academy**, 9-12, Blackfoot
- **Galileo STEM Academy**, K-8, West Ada
- **Temple View Elementary**, PK-6, Idaho Falls
- **Southside Elementary**, K-6, Lake Pend Oreille District
- **N. Idaho STEM Charter Academy**, K-12, Rathdrum

STEM Diploma (§33-523)

- 8 credits in math; 8 credits in science, 5 credits of choice
- 2,400 graduating seniors in 2020 were eligible




Goal 3: AWARENESS




**Stay STEM-spired
with daily learning resources!**

Keep up on the newest STEM-azing learning opportunities.
Check out our [STEM@Home Resource Portal](#)



STEM EDUCATION

- Increases comprehension of 21st-century skills
- Promotes critical thinking
- Pays higher wages

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0:22 / 4:23



Idaho EcosySTEM



Get Involved!

Be a part of the STEM Learning Ecosystems

Interested in learning more or bringing your organization and/or business on board? stem.idaho.gov/idaho-stem-ecosystem



- 100+ Partners
- Federally Funded
- Local decision-making with coordination at state-level to meet greatest needs



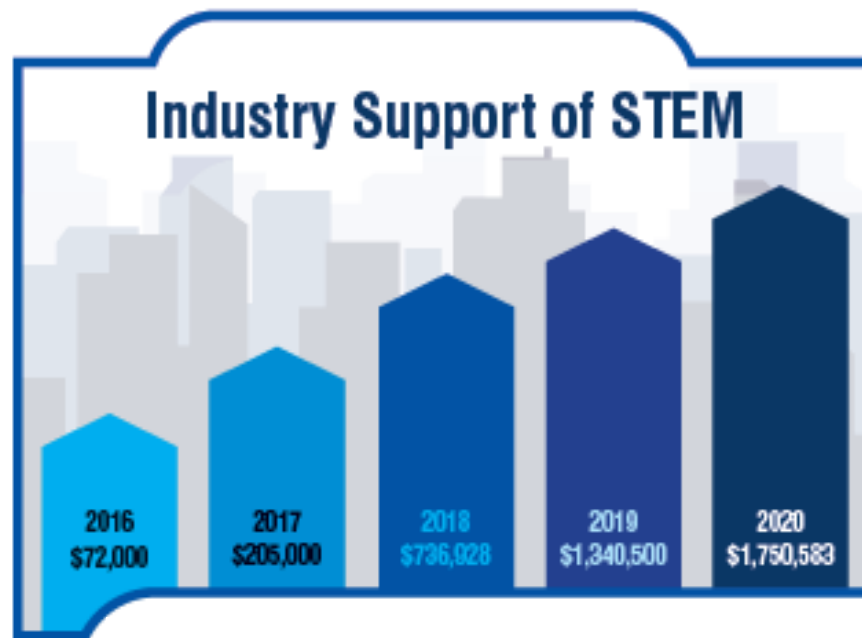
Computer Science Initiative (§33-1633)

- Multifaceted approach
- 2nd state in the nation to adopt all of Code.org's policy recommendations.
- Idaho requires all secondary schools to offer CS (§33-1634).
- Increase in number of students taking AP and Dual Credit CS courses.
- STEM.Idaho.gov/computerscience



STEM AC Budget

	General Fund (cash)	Dedicated Fund (spending authority)	Total
FY 21 Appropriation	\$3,047,100	\$3,102,600	\$6,149,700
FY 22 Recommended	\$3,056,100	\$2,929,900	\$5,986,000

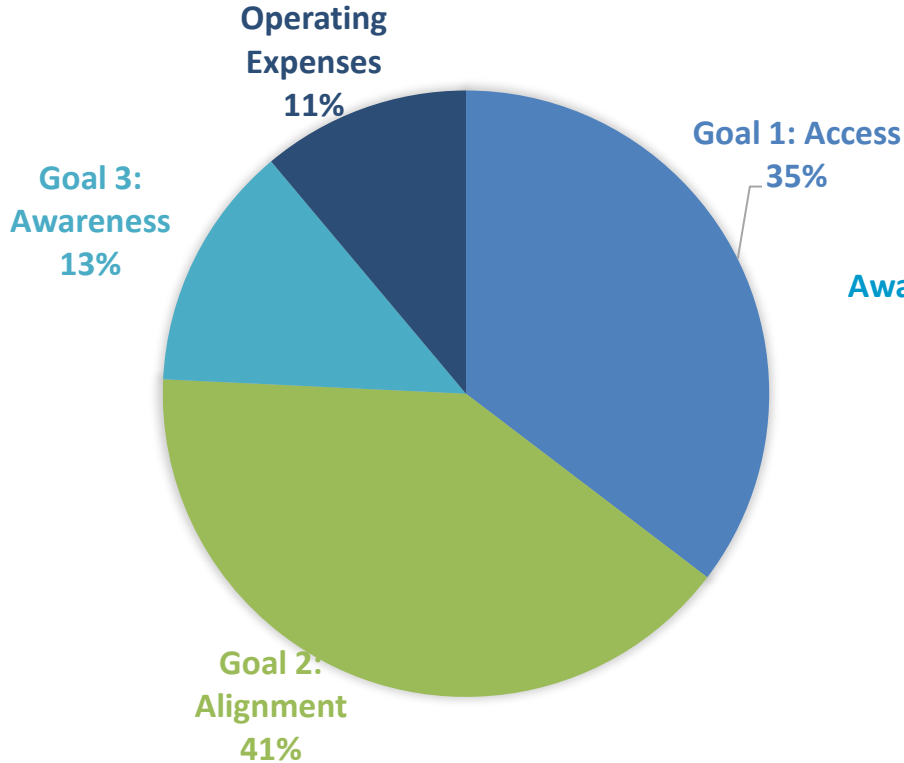


99% of funds received in FY20 were restricted funds

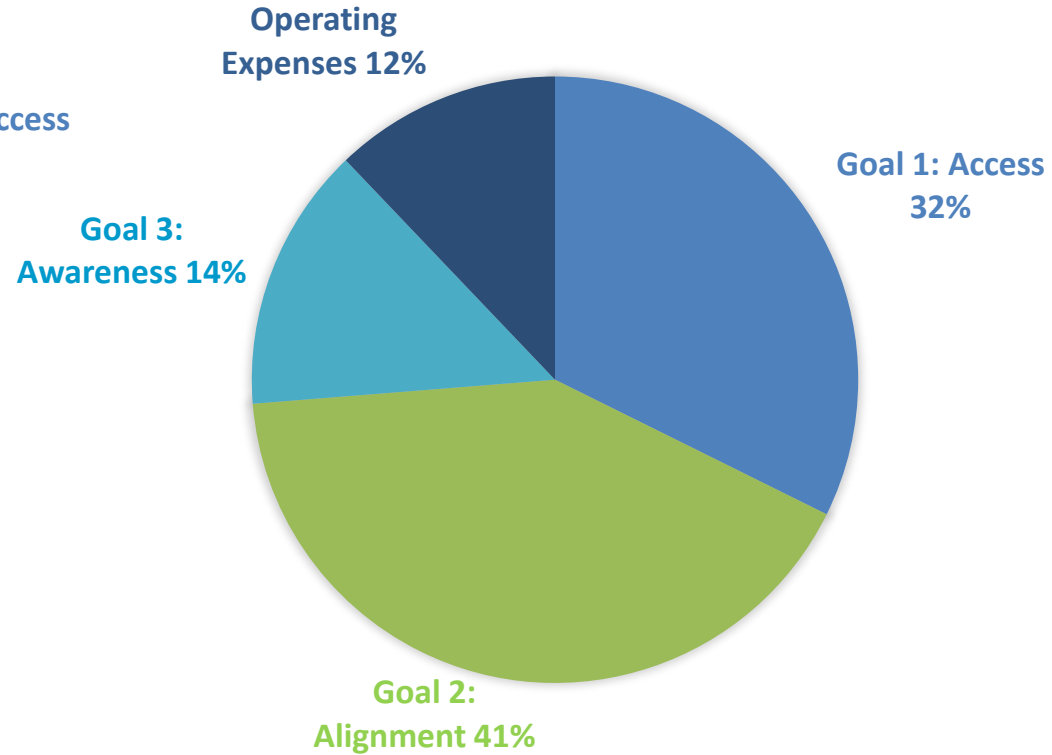


Budget Analysis by Goal

FY20 ACTUALS



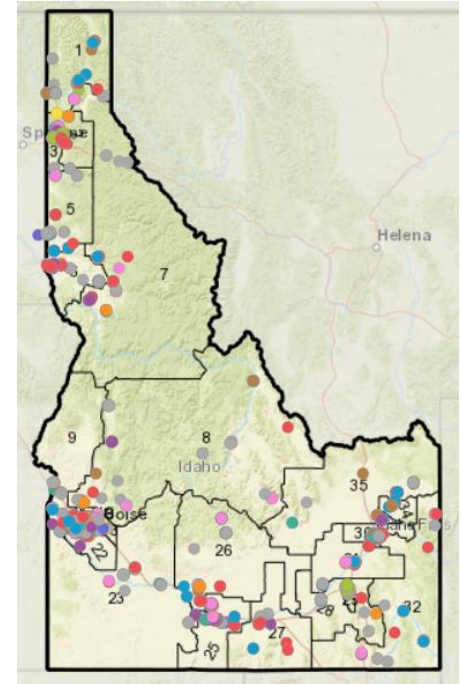
FY21 PROPOSED



Thank You

[Strategic Plan](#)

[Performance Report Metrics](#)



[Data Map Link](#)



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