Board Meeting
July 20, 2022

IDAHO STEM ACTION CENTER

STEM Action Center Board Room

1:00 – 2:30 pm

Approval of April Minutes

Request for Motion to Approve Minutes from April

Goal Updates

- **GOAL 1**: Increase **awareness** of the importance of STEM throughout Idaho
- **GOAL 2**: Advance equitable **access** to high-quality STEM+CS opportunities for educators, students, and communities
- **GOAL 3**: **Align** STEM education with workforce needs throughout Idaho

FY 2022 Performance Report

Performance Measures with Targets and Explanations			
Measure	FY 21 Baseline	FY 22 Targets	FY 22 Actuals
Value of earned media for STEM-related efforts in Idaho.	$742,005	$800,000	$2,080,064
Reach of earned media for STEM-related efforts in Idaho.	2,537,523	3,000,000	3,927,379

Goal 1: Awareness

Performance Measures with Targets and Explanations			
Measure	FY 21 Baseline	FY 22 Targets	FY 22 Actuals
Number of educator utilizations of i-STEM regional library materials.		60	72
Number of STEM designated schools	6	9	7

Goal 2: Access

Performance Measures with Targets and Explanations			
Measure	FY 21 Baseline	FY 22 Targets	FY 22 Actuals
Number of independently generated Public-Private Partnerships proposals funded that involve collaboration of education, government, employer, and/or other stakeholders.	48	50	47
Number of externships run to connect educators and college and career counselors with employers.	26	30	27

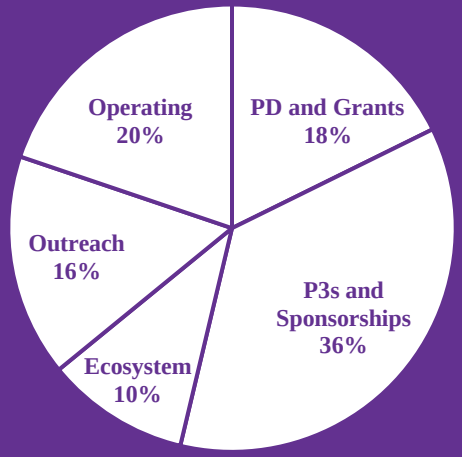
Goal 3: Alignment

FY 2022 Performance Report

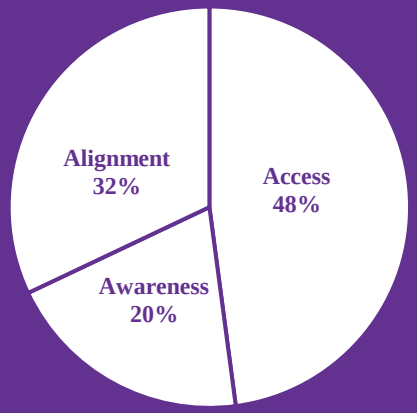
Total Funds Raised = $1.8 million

Total In-Kind Received

OPERATING EXPENDITURES



OPERATING EXPENDITURES BY GOAL



FY 2023 Strategic Plan

Strategic Plan updated and submitted on July 1

Legislation for 2023

- **Currently NO proposed legislation**
- **CS high school graduation requirement**
- **Ideas/Needs from the Board?**

STEM AC Strategic Approach:

Honing our work as a center of expertise in Idaho

&

changing our theory of engagement

OUR AREAS OF EXPERTISE

COLLABORATION AND CONNECTIONS

ANALYZING STEM IMPACT

TRANSLATOR BETWEEN DIFFERENT ORGANIZATIONS

SHARING BEST PRACTICES

UNDERSTANDING GAPS IN SERVICES, CONTENT, SUPPORT

Overarching Goal

In two years, our end users will regularly produce and/or utilize a variety of STEM opportunities in their communities and/or regions.

THEORY OF ENGAGEMENT

- Reaching individuals, schools, organizations, and communities that we have not engaged with to-date.
- Intentional shift to meet our ‘end users’ where they are as opposed to waiting to be approached by them.
- Provide a menu of services that includes consultation, toolkits, best practices, flagship programs, pilot programs, data/metric support, media services.
- Follow-up work and consultation, foster communities of practice and continue to make connections.

STEM AC SERVICES

- **CULTIVATE NEW IDEAS**
  - PILOT PROGRAMS
  - STRATEGIC PARTNERSHIP DEVELOPMENT

- **CONDUCT EFFECTIVE PROGRAMS**
  - FEWER PROGRAMS, MORE IN-DEPTH

- **CONSULT PARTNER ORGANIZATIONS**
  - GUIDANCE ON IMPLEMENTATION
  - CONNECT WITH NEW PARTNERS
  - LEARN TOGETHER

- **COLLECT VETTED RESOURCES**
  - CURATE VETTED RESOURCES
  - CREATOR ONLINE TOOLKITS

- **COMMUNICATE AWARENESS AND ADVOCACY**
  - PROMOTE SUCCESS STORIES & VALUES
  - SHARE TOOLS FOR ADVOCACY
  - MEDIA ENGAGEMENT

Our Commitments

We build the human power to offer opportunities for all.

- We incubate new ideas by piloting programs, cultivating talent and strategic partnerships
- We consult with communities to help educational organizations, business, industry, and employers to better understand each other and work together.
- We offer effective programming for communities and organizations ready to engage in the work.
- We offer vetted tools for STEM success.

Our Commitments

We help communities understand the value of STEM learning for all.

- We highlight stories of Idahoans demonstrating success
- We communicate with leaders from education, industry, non-profits, government, etc…
- We develop networks of STEM champions to spread the word
- We give communities the tools they need to share their success with others

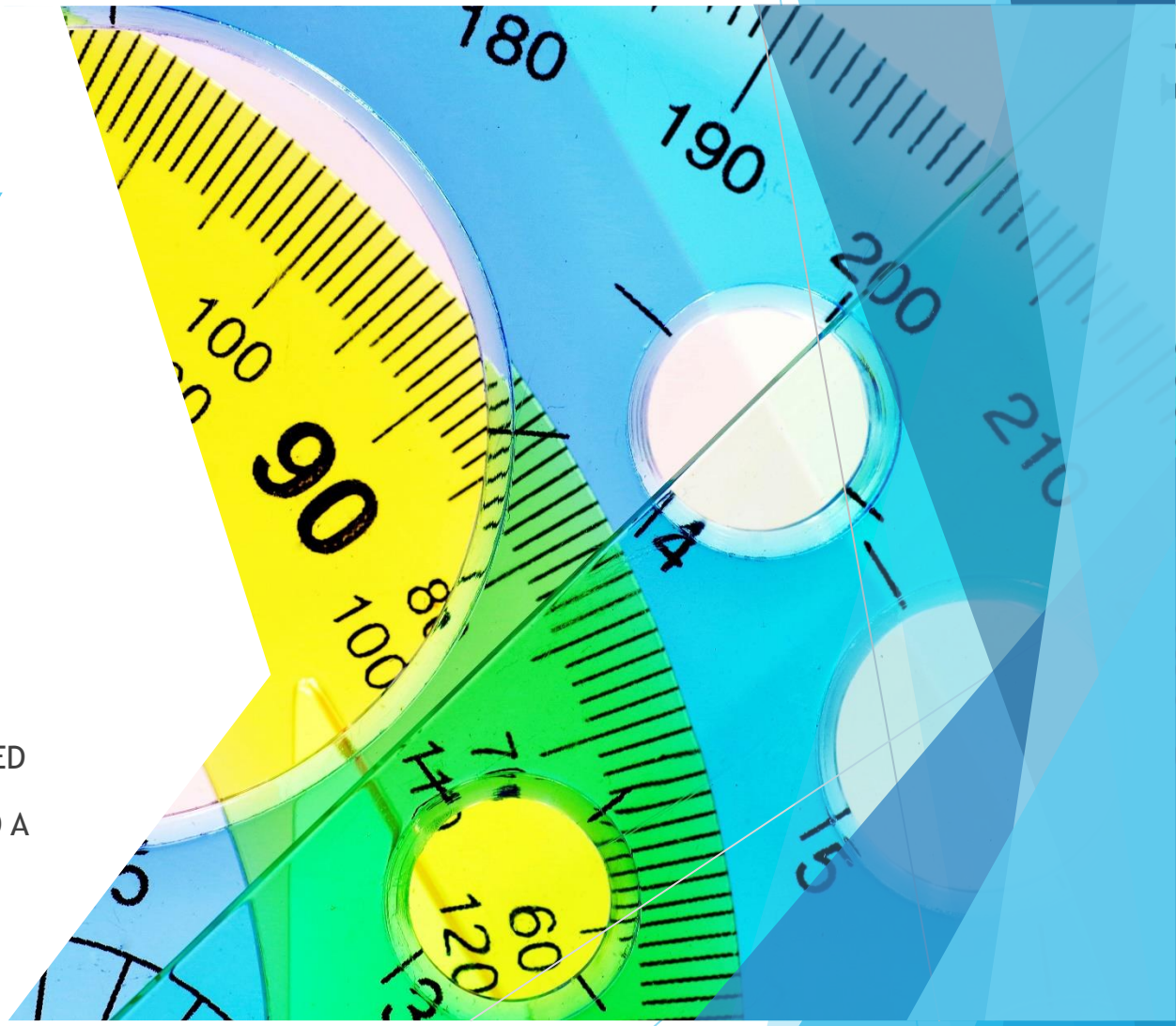
Our Commitments

We provide support and services so communities can offer effective STEM opportunities and engage all learners.

- We partner to provide effective opportunities using proven methods and tools.
- We help communities connect and build partnerships to leverage shared resources.
- We connect people with peers to foster continued learning and growth.
- We innovate to create Idaho-grown opportunities and expand access to all.
- We vet and curate effective learning tools for families, educators, and communities.

EFFECTIVE PROGRAM QUALITY STANDARDS

- REQUIRED:
  - RESEARCH-BASED
  - INCLUDE CHECK-INS
  - INCLUDE A COMMUNITY OF PRACTICE
  - DATA COLLECTION
  - SUSTAINABILITY PLAN
  - RECRUITMENT STRATEGY
- DESIRED
  - SCALABLE
  - DATA COLLECTION COMPLETED BY ORGANIZATION AND PROVIDED TO STEM AC
  - INCLUDES A CONNECTION TO A BROADER ECOSYSTEM



FY 2024 Budget Request

- General Fund budget increase of 3% ($95,196)
- Foundation Development Coordinator
  - Net zero transfer of funds ($79,200)
- Communications Manager ($95,800)
- Office Specialist ($47,300)

STEM School Designation

- Cognia has revised their standards
  - Four key characteristics
  - 10 standards
- After STEM AC Board approval, we will present for State Board of Education approval

Four Key Characteristics

CULTURE FOR STEM LEARNING: School community actively engaged & supportive; learner's needs and interests are the focal point; school community is included & supported. Standards 1-2

LEADERSHIP FOR STEM LEARNING: Leadership demonstrates & communicates expectations; influence & impact culture in positive ways; model & engage in learning while supporting others to do so. Standards 3-5

ENGAGEMENT OF STEM LEARNING: Learners are included in the learning process; learners participate with confidence; learners have agency over their learning. Standards 6-8

GROWTH IN STEM LEARNING: Learners possess non-academic skills that ensure readiness to learn; learners academic achievement reflects preparedness to learn; learners attain knowledge & skills necessary to achieve goals for learning. Standards 9-10

Key Characteristic 1: Culture of Learning

Keys to A Culture of Learning

A healthy culture is evident where:

- School community is actively engaged and supportive of the institution's mission
- Learners' academic and non-academic needs and interests are the focal point
- School community is included and supported

Standard 1: Learners engage in STEM learning experiences that integrate all STEM disciplines with an emphasis on processes and practices associated with STEM.

Standard 2: Professional staff members implement high quality STEM courses and curriculum aligned to recognized standards and organized into interdisciplinary frameworks.

Key Characteristic 2: Leadership for Learning

Keys to Leadership for Learning

Leadership for learning is demonstrated when school leaders:

- Communicate expectations for learning
- Influence and impact the culture in positive ways
- Model and engage in learning while supporting others to do so

Standard 3: Professional staff members and leaders participate in an ongoing system of STEM-specific professional learning.

Standard 4: Leaders engage a diverse network of community partners and stakeholders in order to support and sustain STEM programs and initiatives.

Standard 5: Leaders ensure that all stakeholders have ongoing opportunities to access information and learn about STEM implementation.

Key Characteristic 3: Engagement of Learning

Keys to Engagement of Learning

Engagement is demonstrated when all learners:

- Are included in the learning process
- Participate with confidence
- Have agency over their learning

Standard 6: **Learners engage collaboratively in authentic inquiry during ongoing units of study.**

Standard 7: **Learners engage in self-directed STEM learning guided by professional staff members who are effective facilitators of learning.**

Standard 8: **Learners benefit from a formal structure of within-school and extra-curricular opportunities to extend STEM learning.**

Key Characteristic 4: Growth in Learning

Keys to Growth in Learning

Growth is evident when

- Learners possess non-academic skills that ensure readiness to learn
- Learners' academic achievement reflects preparedness to learn
- Learners attain knowledge and skills necessary to achieve goals for learning

Standard 9: Learners demonstrate their learning through performance-based assessments and have opportunities to develop self-assessment and self-monitoring skills.

Standard 10: Learners demonstrate STEM literacy outcomes that prepare them for the next level of learning and work.

STEM School Designation

Request for Motion to Approve Cognia Standards

STEM AC Legislation (67-823) and Bylaws call for annual selection of Chair and Vice Chair

Request for Motion to:

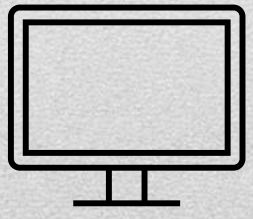
1) Nominations
2) Vote

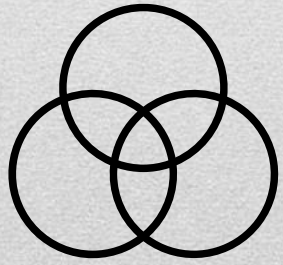
Employer/School District Partnerships

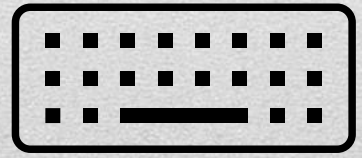
Battelle Energy Alliance

Operator of Idaho National Laboratory

Board Member Updates
&
Open Discussion







Areas You Can Support

- Introductions to STEM Supporters
- Share Success Stories
- Share Events
- Follow us on Social Media (or share)

Upcoming Events

Next Board Meeting
October TBD
(In Person Location?)

CSEdCon
Sept. 21-22
Fort Lauderdale, FL

Educurious PBL Training
Aug. 1-3 (Boise)
Oct. 10-12 (Pocatello)

Public Comment