Board Meeting
July 20, 2022

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
<table>
<thead>
<tr>
<th>Measure</th>
<th>FY 21 Baseline</th>
<th>FY 22 Targets</th>
<th>FY 22 Actuals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of earned media for STEM-related efforts in Idaho.</td>
<td>$742,005</td>
<td>$800,000</td>
<td>$2,080,064</td>
</tr>
<tr>
<td>Reach of earned media for STEM-related efforts in Idaho.</td>
<td>2,537,523</td>
<td>3,000,000</td>
<td>3,927,379</td>
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<tr>
<td>Number of educator utilizations of i-STEM regional library materials.</td>
<td></td>
<td>60</td>
<td>72</td>
</tr>
<tr>
<td>Number of STEM designated schools</td>
<td>6</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>Number of independently generated Public-Private Partnerships proposals funded that involve collaboration of education, government, employer, and/or other stakeholders.</td>
<td>48</td>
<td>50</td>
<td>47</td>
</tr>
<tr>
<td>Number of externships run to connect educators and college and career counselors with employers.</td>
<td>26</td>
<td>30</td>
<td>27</td>
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</tbody>
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**Goal 1: Awareness**

**Goal 2: Access**

**Goal 3: Alignment**
FY 2022 Performance Report

Total Funds Raised = $1.8 million
Total In-Kind Received

OPERATING EXPENDITURES

- PD and Grants 18%
- P3s and Sponsorships 36%
- Ecosystem 10%
- Outreach 16%
- Operating 20%

OPERATING EXPENDITURES BY GOAL

- Awareness 20%
- Access 48%
- Alignment 32%
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:
Honoring 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