STATE OF THE IDAHO ECOSYSTEM

Spark! Strategic Solutions

March 30, 2023



Topics

About Spark! Strategic Solutions

About STEM Ecosystems

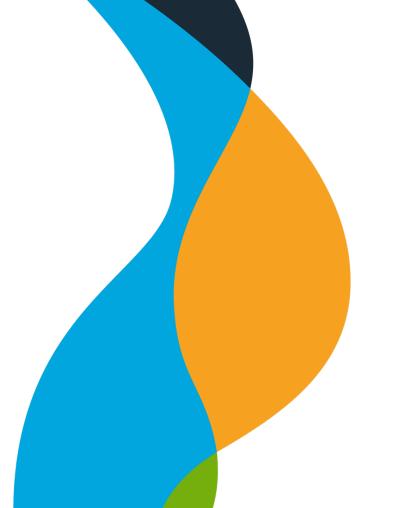
The Idaho EcosySTEM

Where have we been?

Where are we going?









Meet your Spark! team

We're here to build harmonious and co-creative communities where people:



Feel a sense of belonging and connection.



Can access community capital to support their well-being.



Recognize their personal power and opportunity to improve humanity.





Above all else, we're guides.

Spark! is a team of compassionate ideators, strategists, and mobilizers who love building vibrant communities.



How we work

To build thriving communities, we believe that you need to:

- See the whole system.
- Lead with convening power.
- Ensure balanced representation.
- Use data to drive action.

The Spark! Method







STEM Ecosystems

What is a STEM Ecosystem?



A STEM Learning Ecosystem encompasses schools, community settings such as after-school and summer programs, science centers and museums, and informal experiences at home and in a variety of environments that together



Constitute a rich array of learning opportunities for young people.



A learning ecosystem harnesses the unique contributions of all these different settings in symbiosis to deliver STEM learning for all children.



Designed pathways enable young people to become engaged, knowledgeable and skilled in the STEM disciplines.



The Idaho EcosySTEM was part of cohort 6.







Initial & Continuing Partners

- Boise State University
- Career & Technical Education
- Discovery Center of Idaho
- Galileo STEM Academy
- Idaho Commission for Libraries
- Idaho Diversity Network (EPSCoR)
- Idaho National Laboratory
- Idaho Out-of-School Network
- Idaho State Department of Education
- Micron Foundation
- University of Idaho
- & many more!

What about the Idaho EcosySTEM?

The Idaho STEM Ecosystem is a network of STEM education leaders and supporters striving for a STEM-literate Idaho.



Key Programs

- Chief Science Officers (CSOs)
- Externship Program
- i-STEM
- Idaho Science & Engineering Fairs
- STEM Leadership Academy
- STEM Scholarships
- STEM School Designation

Idaho EcosySTEM Vision

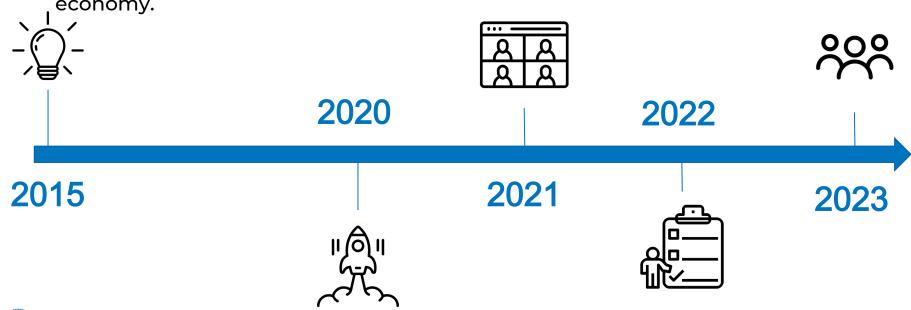
Dedicated partners collaborate to coordinate STEM experiences and opportunities in Idaho.



Where have we been?

Idaho EcosySTEM General Timeline

Mission: To foster the integration of STEM experiences for Idahoans, creating problem-solvers and critical thinkers who will lead and sustain our economy.





2022 Spring Convening

The Power of Partnerships

Meeting Intent:

Reinvigorate existing relationships and build new relationships, learn and share about STEM efforts throughout the state, and continue to develop out the goals and infrastructure of the EcosySTEM.



Intended Outcomes:

- Shared understanding of what the EcosySTEM is, why it was developed, and how it works
- 2. Strengthen partnerships to leverage resources
- 3. Create actionable collaboration



Opportunities:

- Shared, consistent, and tangible definitions, structure, and parameters
- 2. Aligned and clear communications
- Community driven and community controlled access and promotion of STEM
- 4. Self sustaining and longterm durability



Strategic Action Planning

Timeline: May – July 2022

Shared Language

Accountability Structure

Defined how the various parts of the Idaho EcosySTEM work together and influence each other.

Leadership Team

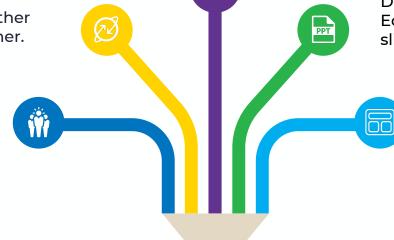
Identified statewide partners to inform guidance and decision making for the Idaho EcosySTEM to create the content on this slide. Created guiding principles, strategic objectives, and key results.



Develop a consistent Idaho EcosySTEM PowerPoint slide deck.

Strategic Action Plan Placemat

One pager "placemat" created to define and direct the Idaho EcosySTEM efforts.

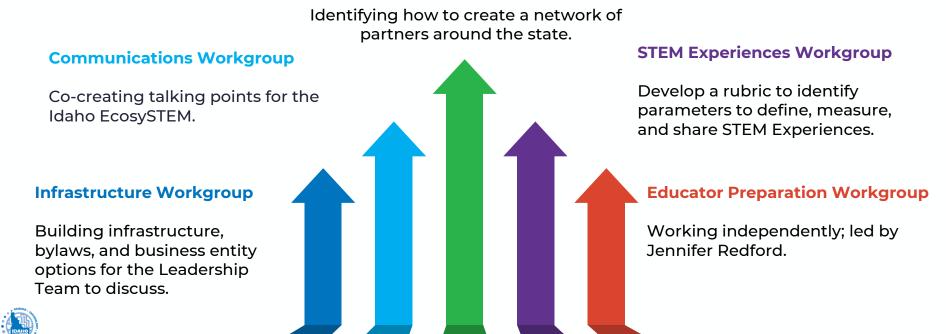




Implementation Planning

Timeline: September 2022 – March 2023

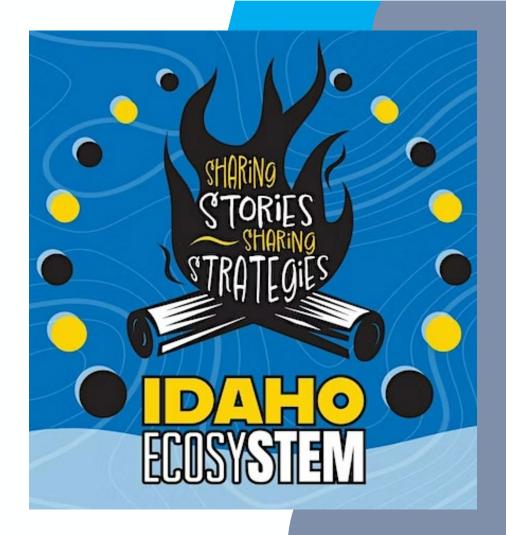
Capacity Workgroup



Idaho EcosySTEM



Where are we going?







EcosySTEM Hubs



Idaho North & North Central (INNC) Hub

Connecting Partners

- Computer Science Week Hour of Code
- Science Saturdays
- STEM Creator Fair



Idaho South & East EcosySTEM (ISEE) Hub

Visibility & Outreach

- Shirts and magnets
- Events Calendar & Facebook Page
- Program & Event
 Sponsorship
- Increased requests from schools, STEM Nights, and other events



South West Idaho STEM Hub (SWISH)

Engagement

- Over \$30k awarded to STEM programs
- Sponsorship of STEM GEMS Program
- STEM Nights
- STEM Day at the Fair
- Robotics Workshops



STEM Matters Month

February 2023













STEM Statewide Strategic Plan

2014 - 2018



GOAL 1

All students will have equitable access to P-20 STEM education opportunities, curriculum, programs, and policies that will improve P-20 student content knowledge, academic performance, and interest in STEM, contributing to the success of students and employees entering STEM fields.



GOAL 2

P-20 educators will be diverse and of high quality and be prepared and able to incorporate and integrate STEM education in their curriculum and instruction.



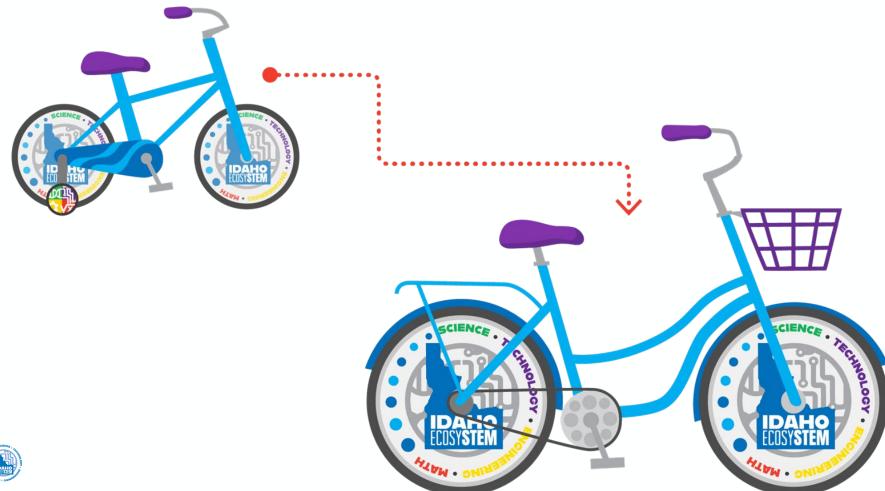
GOAL 3

Create awareness and support for STEM education across the state.



GOAL 4

Develop a diverse STEM talent base that is prepared to meet the demands of a globally competitive economy and is informed by and aligned with statewide economic and workforce development initiatives.



Questions?



Thank you!

Go be the Spark!

connor@sparkstrats.com





APPENDIX What did we create?

Idaho EcosySTEM Leadership Team

NAME	ORGANIZATION	EcosySTEM Hub
Kay Seven	Nez Perce Tribe	INNC
Alaysha Whitworth	American Heritage Charter Schools	ISEE
Katie Kory	ATC Manufacturing	INNC
Chet Andes	Idaho Career & Technical Education	Statewide
Tracie Bent	Idaho State Board of Education	Statewide
Cathy Beals	Idaho State Department of Education	
Sonia Martinez	artinez Idaho State University	
Erica Compton	Idaho STEM Action Center	Statewide
John McFarlane	Idaho STEM Action Center	Statewide
Melinda Davis	Impact STEM ED	INNC
Rachel A. Jameton	Lewis Clark State College	INNC
Lisa Lalliss-Skogsberg	a Lalliss-Skogsberg FIRST Idaho	
John Cassleman	Cassleman Schweitzer Engineering	
	Selkirk Outdoor and Leadership Education (SOLE	
Dennison Webb	nison Webb Experiences)	
Sarah Childers	Sarah Childers Temple View Elementary School	

Idaho EcosySTEM Hub Coordinators:

- Ashley Schaffner Idaho South & East EcosySTEM Hub (ISEE STEM) Coordinator
- Dan Schillo South West Idaho STEM Hub (SWISH) Coordinator
- Susan Stauffer Idaho North & North Central Hub (STEM INNC) Coordinator



FOUNDATION OUR VISION

opportunities in Idaho.

Families

Employers

reciprocal partnerships.

partners.

Dedicated partners collaborate to

coordinate STEM experiences and

Youth (PreK - 20)

OUR PRIORITY AUDIENCES

OUR GUIDING PRINCIPLES

Reinforce Existing Activities - Avoid duplication

by supporting what already exists and building

Ensure Balanced Representation - Prioritize

inclusion of individuals who are furthest from

STEM in Idaho and promote access and

opportunity for all Idaho STEM voices and

Lead with Connection - Bring education,

industry, and other leaders to the table to

Use Data to Drive Action - Hold a strong

making and continuous improvement.

STEM access and opportunities in Idaho.

commitment to evidence-informed decision-

Ground in Joy - Joyfully and inclusively advance

Engage the Whole System - Communicate and work across sectors In Idaho and deliver programming at the local level.

collaboratively address STEM workforce

development needs in Idaho.

Educators (informal and formal)

KR 1: Develop and finalize leadership team bylaws.

success stories and partnerships.

CONVENING PLANNING GROUP)

classroom, and in the community.

identify existing and new STEM opportunities.

informal PreK-20 educators, (EDUCATOR PREP WORKGROUP)

employers and manage timely updates.

finalize process of implementation for Idaho EcosySTEM.

KR 1: Develop shared language around Idaho regarding STEM.

KR 2: Present at 3 local and statewide conferences in 2023.

KR 3: Build and implement an Idaho EcosySTEM communications plan.

STRATEGIC OBJECTIVES (O) & KEY RESULTS (KR)

OBJECTIVE 1 | Formalize the Idaho EcosySTEM structure.

OBJECTIVE 2 | Align communications efforts to promote awareness of the importance of STEM.

KR 3: Publish quarterly op-eds or other content in each region to promote local STEM

KR 4: Develop and share common metrics for measuring STEM awareness and success

stories and partner on publishing annual data with the Idaho STEM Action Center.

OBJECTIVE 3 | Convene partners to build capacity and continued investment in STEM

pathways.

each region can build on one another/connect to inform 3-6-month STEM pathways.

KR 3: Create a local network that includes families, educators, and employers in local

OBJECTIVE 4 | Coordinate existing STEM experiences to improve access and opportunities

for priority audiences.

communities to share tips and best practices for integrating STEM at home, in the

KR 1: Use the STEM experience inventory to help inform how different STEM experiences in

KR 2: Plan the 2023 Idaho EcosySTEM convening and invite and engage parents, students,

employers, educators, and statewide partners in collaborative activities. (TRANSITIONED TO

KR 2: Review and align on selected business plan created by Boise State EMBA program and

thinkers who will lead and sustain our economy.

ACCOUNTABILITY STRUCTURE

Idaho EcosySTEM

A group of partners working together to support STEM learning and workforce development in all Idaho communities to ensure a prosperous future.

Capacity Workgroup | STEM Experiences Workgroup Educator Prep Workgroup

Leadership Team

Cohesive team that provides direction and decisions for the

EcosySTEM. The Leadership Team is representative of Idaho STEM voices

Regional Hubs (ISEE, INNC, SWISH)

Community partners that support the development of strategic implementation plans by designing solutions to

enhance the regional STEM landscapes.

Idaho STEM Action Center (STEM AC)

The Idaho STEM Action Center serves as the backbone

organization by providing operational support and fiscal

sponsorship for the Idaho EcosySTEM at this time.

IMPLEMENTATION

OUR MISSION

Infrastructure Workgroup | Communications Workgroup

To foster the integration of STEM experiences for

Idahoans, creating problem-solvers and critical

KEY PERFORMANCE INDICATORS (KPIs)

OBJECTIVE 1 | Structure and bylaws established; business plan

OBJECTIVE 4 | Inventory of STEM experiences; STEM experience

"inventory" is publicly available and informative for families.

implemented: communications plan implemented

OBJECTIVE 2 | Shared language implemented; # presentations at

2023 EcosySTEM convening attendees by group

educators, and employers

conferences; annual STEM data published; # of op-eds published

KR 1: Partner with local industry partners to build an inventory of STEM experiences and OBJECTIVE 3 | # of network partners and collaborators; connect STEM experiences into STEM pathway options in each region: #

KR 2: Publish and share the STEM experience inventory with families, educators, and

KR 3: Increase accessibility of professional development resources for Idaho formal and

Meeting Norms

We participate as equals with shared responsibility for the outcomes.

We communicate openly, honestly, and respectfully.

We listen as allies.

We stick to the agenda.

We have no
hidden
disagreements or
questions; if we
disagree, we do
so with grace and
tact.

We help each other learn.

We show up on time and prepared.



Guiding Principles

Reinforce Existing Activities



Engage the Whole System



Communicate and work across sectors In Idaho and deliver programming at the local level.



Avoid duplication by supporting what already exists and building reciprocal

Ensure Balanced Representation

partnerships.



Use Data to Drive Action

Hold a strong commitment to evidence-informed decisionmaking and continuous improvement.



Prioritize inclusion of individuals who are furthest from STEM in Idaho and promote access and opportunity for all Idaho STEM voices and partners.



Ground in Joy

Joyfully and inclusively advance STEM access and opportunities in Idaho.



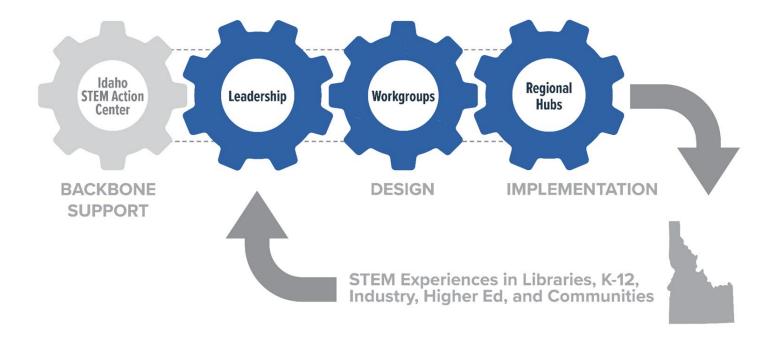


Bring education, industry, and other leaders to the table to collaboratively address STEM workforce development needs in Idaho.





Idaho EcosySTEM Accountability Structure





Idaho EcosySTEM Implementation

WORKGROUP	STRATEGIC OBJECTIVE	MEETING DATES	PARTICIPANTS	LEAD
Infrastructure	Formalize the Idaho EcosySTEM structure.	11/16 12/14 1/11 2/8	Sarah Childers Cathy Beals Katie Kory	Erica Compton
Communications	Align communications efforts to promote awareness of the importance of STEM.	12/7 1/18 2/15	John Cassleman Melinda Davis Lisa Lalliss-Skogsberg Sarah Penney-Jackson Joshua Sneideman Kayleen Hoyt	Dan Schillo
Capacity	Convene partners to build capacity and continued investment in STEM pathways.	11/15 12/13 1/19 2/16	Aaron McKinnon Alaysha Whitworth Courtney Taylor Sonia Martinez Trisha Mick Felice Otero Frankie Adams	Susan Stauffer
STEM Experiences	Coordinate existing STEM experiences to improve access and opportunities for priority audiences.	11/30 12/15 1/5 2/2	Andrea Baerwald Angela (Angie) Good Dennison Webb Dr. Joy Jansen John McFarlane Julia Hopper Lisa Lalliss-Skogsberg Rachel A. Jameton Space Idaho	Ashley Schaffner John McFarlane



Implementation Template

