



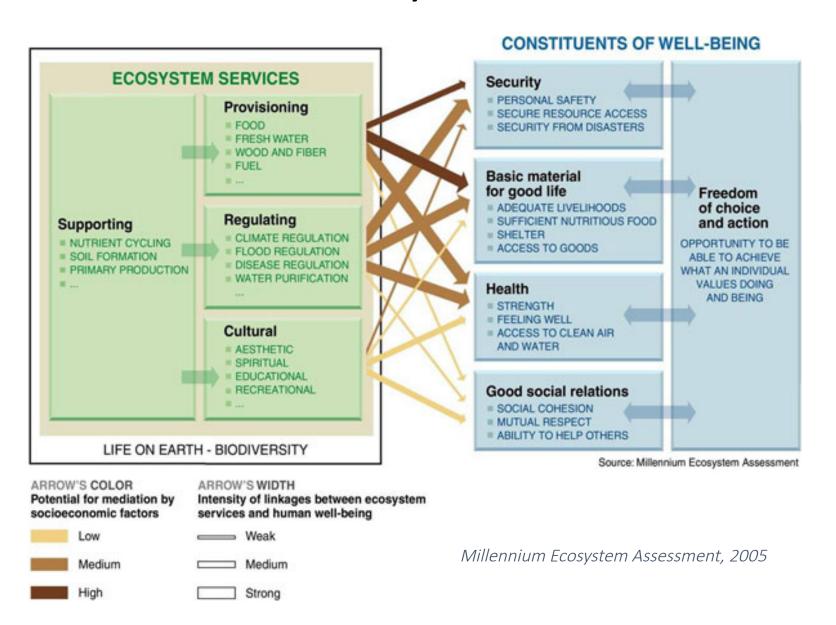
Managing Idaho's Landscapes for Ecosystem Services (MILES)







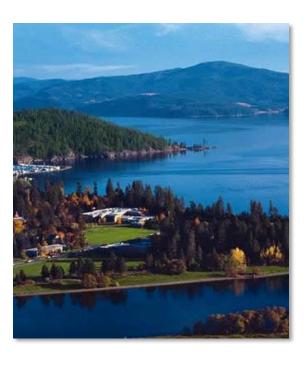
What are Ecosystem Services?



MILES Vision

... for Idaho to develop capacity to *create new knowledge* about ecosystem services, landscape change, and associated socio-economic systems, and to develop our ability to *provide science-based decision support* needed to sustainably manage Idaho's resources.

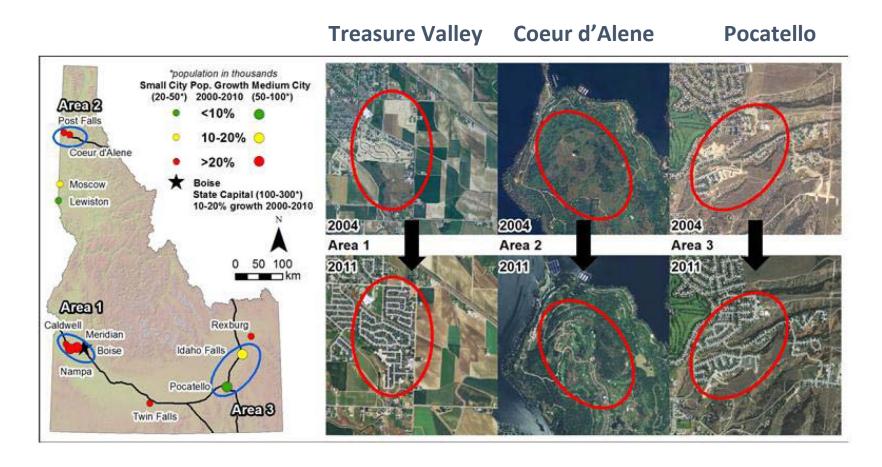




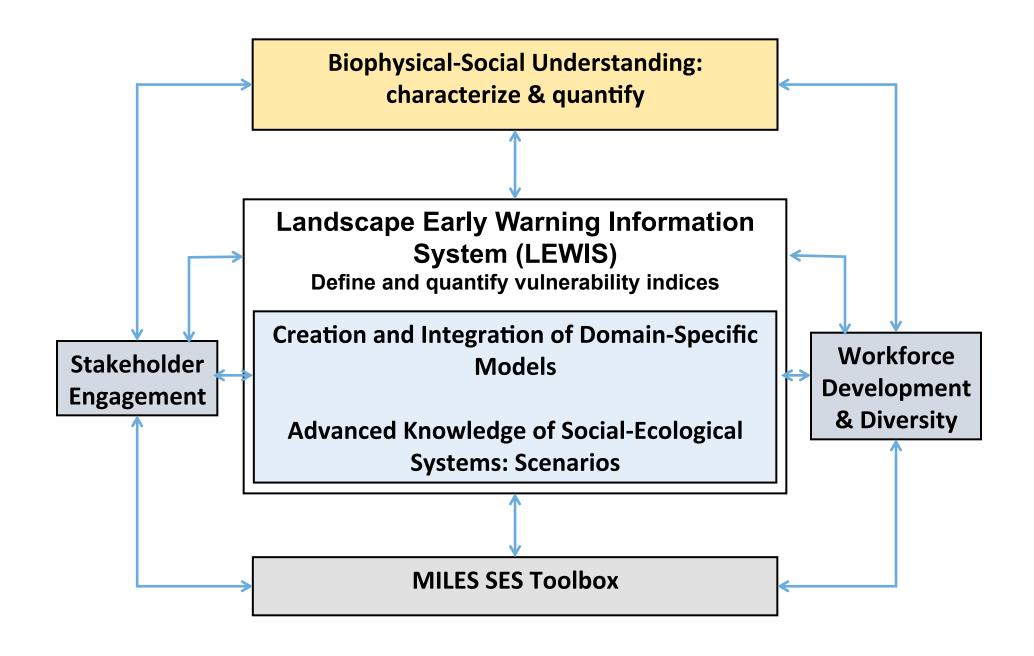


Three Field Laboratories

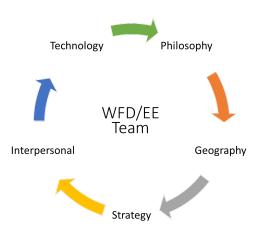
Landscape change under the stressors of climate change and urban expansion



Field laboratories share characteristics (water resource issues, population growth) but also has unique stakeholder perceptions, values and associated biophysical system processes; activities are both integrated statewide, and site specific.



Workforce Development/External Engagement Initiatives









Integration Goal: form a pattern of statewide teamwork to develop and implement WFD/EE 'best practices'. Involves regular meetings by 21 participants from 6 different institutions.

Program:
connecting Idaho's
Primarily
Undergraduate
Institutions with
statewide research
enterprise

MILES
Undergraduate
Research and
Internships
program (MURI):
connecting
undergraduate
students with
research enterprise

MILES Adventure
Learning program
(AL): connecting
secondary teachers
and students with
statewide research
enterprise



MILES Ambassadors



Dave Makings,College of Southern
Idaho (CSI)



Willard Pack,
College of Western Idaho
(CWI)



Julie Van Middlesworth, North Idaho College (NIC)



Keegan Schmidt, Lewis Clark State College (LCSC)

- Designed to increase the participation of 2year and 4-year Idaho colleges in MILES activities
- Serves to promote Idaho EPSCoR's diversity and workforce development goals by providing assistance to MURI, Adventure Learning, and State Initiatives.



MURI Program







Spring/Summer MURI:

Students Awarded - 64

23% Underrepresented Minority

55% Female

13% PUI students

5% Stakeholder

Examples:

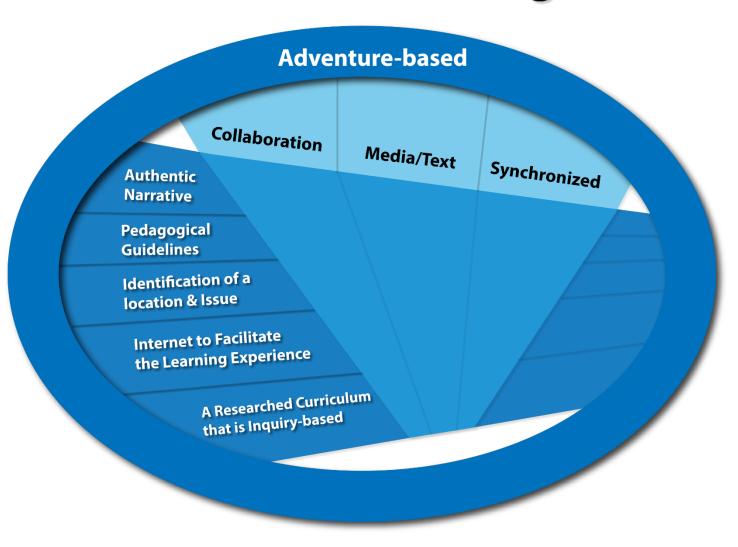
- mapped pollinator diversity and abundance and native plant distributions
- Fuel loads and fire risk

MILES Adventure Learning program: connecting secondary teachers and students with statewide research enterprise





Adventure Learning







MILES -

Adventure Learning









Login



Summer 2014—Teacher Workshops

Middle- and high-school teachers from across Idaho are invited to take part in workshops designed to build understanding of the various ways we benefit from having healthy, functioning ecosystems, and the challenges that we face as a state in trying to manage our resources to maintain balance in these systems.

Adventure Learning

Summer 2014 Blog Teacher Resources Lesson Plans Winter 2014 Blog

Teacher Workshops

Calling for K-12 teacher applicants!

Visit the Idaho EPSCoR website for details.

Partners



Links to AIM-UP: Discussion & Feedback

Historical perspective: past-present-future of the urban-wildland interface

Collections provide necessary evidence for past ecosystems and can help populate models to predict future conditions.

What are innovative questions to link social sciences with natural science collections?

Mapping/Geography is key! How to share availability of georeferenced collections?

How can Vision & Change/ Next Generation Science Standards be integrated into a collections-based model of teacher professional development?



STATE Initiatives

Idaho STEM Pipeline

- Website designed to provide information on STEM programming in Idaho
- Links to STEM opportunities for students, teachers, and community
- Averages 10k + hits monthly





Updates:

- Spanish Translation
- Live Twitter Feed



STATE Initiatives





Idaho STEM Higher Education Network

- Established to foster communication across campuses
- Involves Idaho's three public universities and 2 and 4 year colleges
- Assists in creating sustainable partnerships and strengthening recruitment and retention efforts - particularly for underrepresented minorities and women

