IVARESUNEX - THEFE FRST 500 DAYS

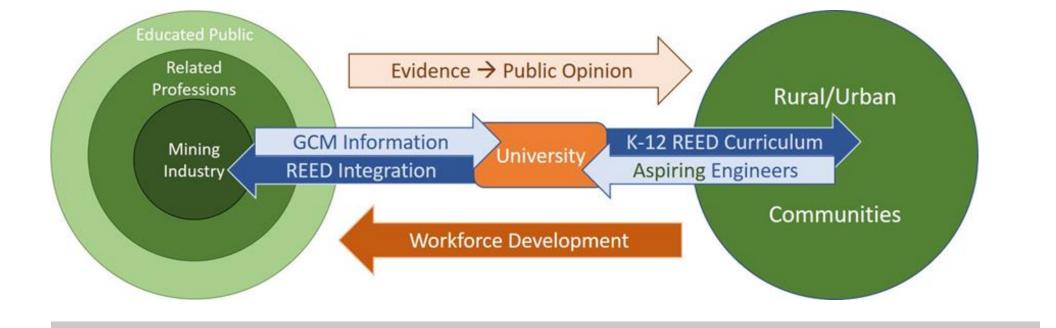
Peter Mullner, Stephen Crowley, Cassie Koerner, Heather Williams, Jared Talley, Claire Xiong, Sidney Palmer, Dorsey Wanless, Chad Husband

Theme

Materials Resources Sustainability Nexus (MARESUNEX) Theme: Creating and maintaining an ecologically, socially and economically just and sustainable world through material innovation in Idaho.

Vision

Healthy, mutually engaged, thriving rural and urban communities maintain a sustainable and just flow of materials from sourcing to disposing through STEM-informed decision making.



Mission

We build partnerships that create sustainable materials solutions that germinate from the values and traditions of rural communities and incorporate the knowledge of Science, Engineering, Technology, and Mathematics.

The partnerships

- Preserve and support rural communities and identities.
- 2. Develop resources for technologies that support a healthy global environment and justice for all participants.

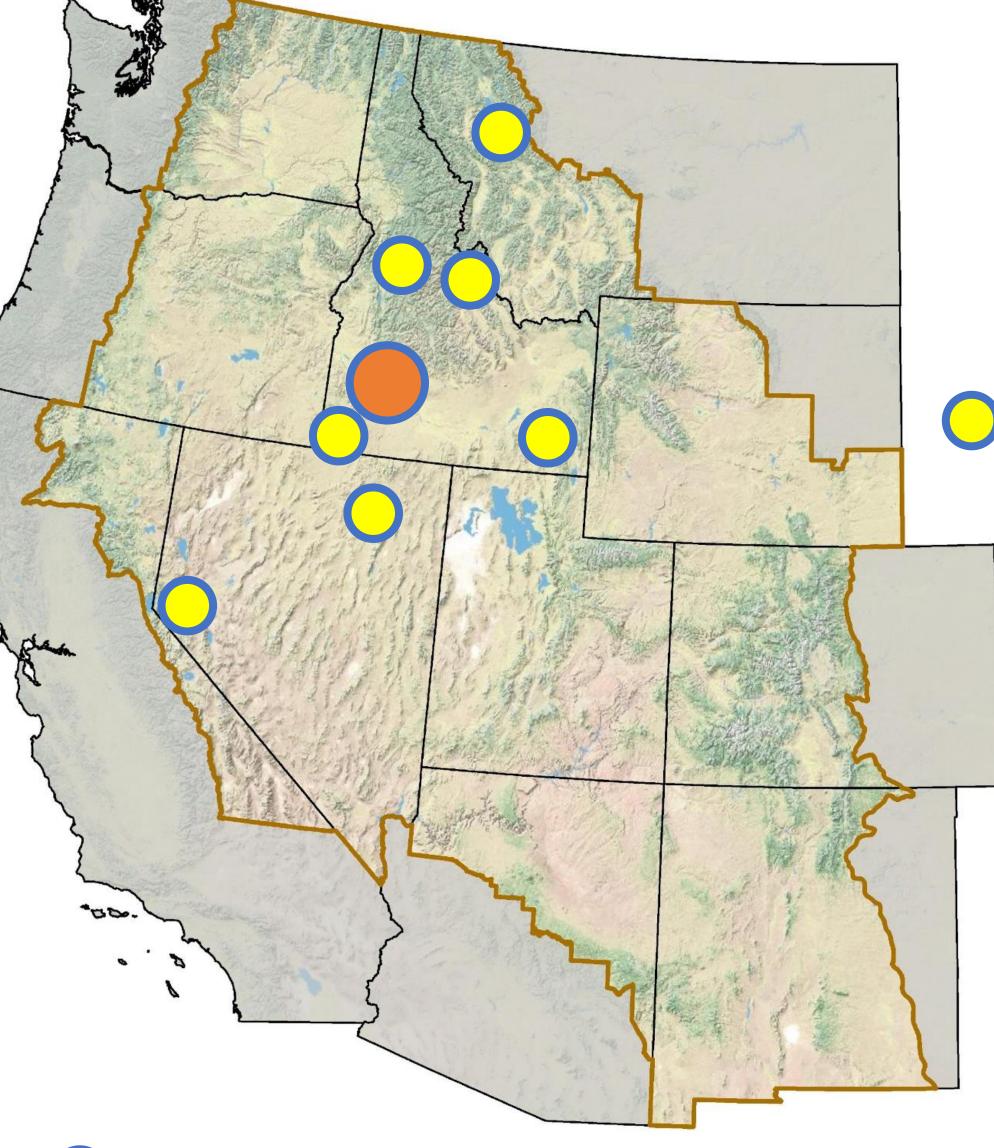
MARESUNEX nucleates at mining communities in Idaho from where it spreads through the Northwest and the United States.

Identifying and developing educational tools to support responsible mining in Idaho



Related Professions Industry

Partnerships





individual partner organization

multiple partner organizations (Boise)

Promoting Cohesion

Building a nexus

- . Larger Team Activity
- a) Weekly Meetings
- b) Collaborative Writing Projects
- c) Joint Grant Submission
- d) Special Activities
- 2. Sub-Team Activity
- a) Leadership Meetings
- b) 497/597 Materials, Resources, and Sustainability
- c) Jared/Heather INCLUDES
- 3. Individual Efforts



- limited too)

- 4. Have fun

- Check in regularly with folks about what they need from the project and what they are able to offer - this changes over time





A series and series and series and

2022 NSF INCLUDES Seminar presentation

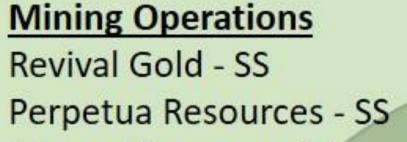
2023 FY25 Initiative **NSF ENGINES** NSF INCLUDES 2nd **IGEM-HERC** SLOAN

Community Partners

Lessons Learn

. Rome wasn't built in a day - plan to grow your resources and skills over the lifetime of the program 2. Resources include (but are not

- a. grant ideas
- b. grant drafts
- c. experience with particular grants 3. Develop a suite of deliverables (grants, papers, talks etc)
- 5. Hold time for 'nerding out' 6. Gather regularly



Integra DeLamar - SS JR Simplot – SS **Bunker Hill** Heather ITAFOS Williams

COED

Leadership

Bidirectional Flow of Support

Peter Mullner, MSMSE Stephen Crowley, PHIL Chad Husband, CRCA

Jared Talley SPS, HCRI

Government Agencies Governor's OEMR - SS Idaho Geological Survey - SS





Achievements

2024 NSF TRAILBLAZER TRANSFORM Seminar presentation

IMA Conference 2022 (attended) IMA Conference 2023 - Presentation

Writing Project

MARESUNEX

Team

Team

Claire Xiong **MSMSE**

Cassie

Terra Nostra - SS

Stantech - SS

Mining Consultants

Strata Tetra Tech **Brown and Caldwell**

Schools

Koerner EPI

Sidney Palmer SKC

Dorsey Wanless Geosciences

ID Dept. of Water Management - SS Bureau of Land Management

Salmon SD - SS Salish Kootenai College (Tribal) - S\$ Iowa SU - SS UNR - SS Great Basin C - SS/

Others Idaho Mining Association/ Idaho Power