



# External Engagement

iUTAH: Broader Impacts

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# External Engagement

- Participatory research, outreach, communication and dissemination activities with key audiences in support of iUTAH research
- Efforts support development of diverse, well-prepared STEM workforce and scientifically literate public in Utah

# External Engagement Team

- Team:
  - **NHMU/UU: Madlyn Runburg (EE Co-chair),** Becky Menlove, Lorie Millward
  - **Utah DNR: Chris Keleher (EE Co-chair)**
  - UEN: Laura Hunter, Karen Krier, Jessica Anderson
  - USU: Nancy Mesner, Brian Greene, Carlos Licon
  - GSLC/UU: Louisa Stark
- Partners:
  - USOE: Sarah Young
  - SUU: Paul Husselbee
  - UU: Nalini Nadkarni

# External Engagement Goals

- **Goal 1:** Provide participatory iUTAH related research experiences to K-12 and public audiences.
- **Goal 2:** Develop dynamic communications strategy for dissemination of iUTAH activities and outputs.

# External Engagement Objectives

- *Goal 1: Provide participatory iUTAH related research experiences to K-12 and public audiences.*
  - **Objective 1.1:** Leverage existing Utah Water Watch (UWW) and Taking Learning Outdoors (TLO) programs to align with iUTAH *EE* goals.
  - **Objective 1.2:** Integrate iUTAH research into the planning and implementation of UWW and TLO programs.
  - **Objective 1.3:** Support Workforce Development and Diversity Enhancement goals.
  - **Objective 1.4:** Support project evaluation efforts.

# External Engagement Objectives

- *Goal 2: Develop dynamic communications strategy for dissemination of iUTAH activities and outputs.*
  - **Objective 1.1:** Produce an iUTAH website
  - **Objective 1.2:** Support project evaluation efforts
  - **Objective 1.3:** Engage natural resource managers across Utah through direct and comprehensive communications and participation with relevant areas of iUTAH.

# External Engagement Activities

- *Goal 1: Provide participatory iUTAH related research experiences to K-12 and public audiences.*
  - **Activity 1.1:** Refine UWW and TLO program goals and content to support relevant aspects of iUTAH research areas.
  - **Activity 1.2:** Identify goals and needs to advance UWW and TLO programs in year two.
  - **Activity 1.3:** Include iUTAH researchers, EOD team members and community stakeholders in the planning and implementation of UWW and TLO programs
  - **Activity 1.4:** Design recruitment plan for diverse audiences as described in iUTAH
  - **Activity 1.5:** Participate in iUTAH evaluation activities

# External Engagement Activities

- **Goal 2:** *Develop dynamic communications strategy for dissemination of iUTAH activities and outputs.*
  - **Activity 1.1:** Design and launch iUTAH website
  - **Activity 1.2:** Participate in iUTAH evaluation activities
  - **Activity 1.3:** Work through existing networks and relationships to provide in-person and electronic communications to natural resource managers in Utah



# External Engagement Outputs

- *Goal 1: Provide participatory iUTAH related research experiences to K-12 and public audiences.*
  - **Output 1.1:** Documented program goals and activities highlighting iUTAH EE goal alignment
  - **Output 1.2:** List of activities and outcomes that inform goals and needs
  - **Output 1.3:** List of collaborators and collaborations
  - **Output 1.4:** List of integration points of iUTAH research with UWW and TLO
  - **Output 1.5:** Documented recruitment efforts including strategies and outcomes
  - **Output 1.6:** List of EE evaluation activities
  - **Output 1.7:** Documented participation in iUTAH evaluation activities

# External Engagement Outputs

- *Goal 2: Develop dynamic communications strategy for dissemination of iUTAH activities and outputs.*
  - **Output 1.1:** Fully functioning website
  - **Output 1.2:** Established process for adding content and enhancements
  - **Output 1.3:** List of EE evaluation activities and outcomes
  - **Output 1.4:** Documented participation in iUTAH evaluation activities
  - **Output 1.5:** Documented communication activities with natural resource managers in Utah

# Possible Challenges

- UWW and TLO will require recruitment and follow through during the year that potentially impact the number of people who will be involved.

# Anticipated Outcomes or Impacts

- The EE team will have an increased understanding of audience needs and interests relative to engagement
- Audience feedback will allow EE team to assess achievement of goals and refinement of programs

# Engagement Logic Model



INPUTS	ACTIVITIES	OUTPUTS	OUTCOMES	IMPACT
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**INFRASTRUCTURE**

- Existing relationships and networks:  
*NR Mangers and Agencies; K-12 State, District, and School Administrators; K-12 teachers and students; Higher Education; Broad ISE community; Private and Public Partners*
- CI-Water K-12 Resources

**ENGAGEMENT**

- K-12 Teachers and Students
- ISE Organizations
- Natural Resource Agencies
- Community Partners
- Undergraduate/ Graduate Students

**FUNDING**

- iUTAH
- CI-Water
- NHMU
- UU
- USU

**INFRASTRUCTURE**

- Build diverse EE advisory team
- Recruit K-12 EE Teacher Mentors
- Identify EE/RFA integration areas
- Develop and implement diverse participant recruitment plan
- Create communication and engagement plan
- Identify additional EE opportunities

**PRACTICE**

- Align TLO and UWW program activities to the RFAs
- Plan and implement TLO and UWW
- Plan and implement iUTAH communication events

**INTEGRATION WITH RFA 1-3, CI**

- Organize cross area participation of EE/RFA members

**INFRASTRUCTURE**

- Diverse EE advisory team
- K-12 iUTAH EE Mentor Community(20/ year)
- Integrated EE/RFA activities
- Diverse participant groups
- iUTAH website
- Communication and engagement plan

**PRACTICE**

- iUTAH aligned and operating TLO and UWW programs
- Informed and engaged EE audience

**INTEGRATION WITH RFA 1-3, CI**

- EE audiences and RFA researchers participating across iUTAH activity areas

**INFRASTRUCTURE**

- Diverse, participatory networks
- Effective, diverse methods of communications, internally and externally

**PRACTICE**

- Increased K-12 teacher and student use of outdoor environments as a context and application for learning.
- Communities engaged in sharing, understanding and participation with iUTAH activities.

**INTEGRATION WITH RFA 1-3, CI**

- RFA and EE working collaboratively to bridge research to EE audiences

- Increased awareness and understanding of coupled human-water systems.
- Increased capacity for tackling adaptive community issues through multi-stakeholder relationships