

## NEVADA SYSTEM OF HIGHER EDUCATION

NEVADA BOARD OF REGENTS

NSHE CHANCELLOR

NSHE SYSTEM OFFICE

UNIVERSITIES





COMMUNITY COLLEGES















## WHO WE ARE



- One of eight institutions within the Nevada System of Higher Education
- Two main campuses in Las Vegas and Reno
- Over 60 years of environmental research and discovery
- More than 600 scientists, engineers, students, and support staff
- More than 140 PhDs in more than 40 disciplines
- \$47M in sponsored research grants and contracts annually



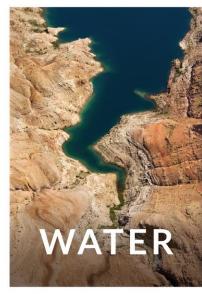


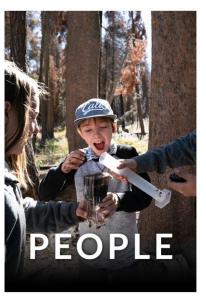


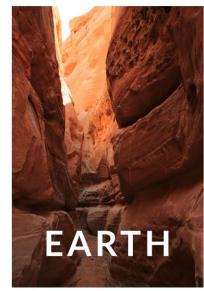














INVESTIGATING HUMAN'S IMPACT ON THE ENVIRONMENT AND THE ENVIRONMENT'S IMPACT ON HUMANS



#### NATIONAL SCIENCE FOUNDATION RANKING

Top 9%

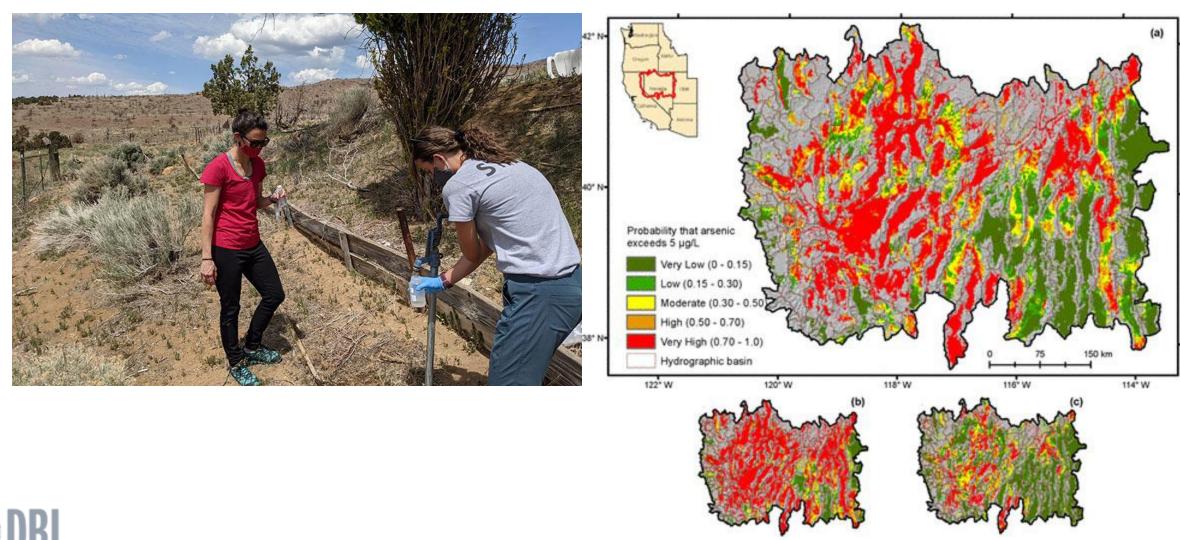
Second Institutions

ATMOSPHERIC SCIENCE
24 out of 437 Institutions

AGEOLOGICAL & EARTH SCIENCES
13 out of 437 Institutions



#### PRIVATE DRINKING WATER WELLS













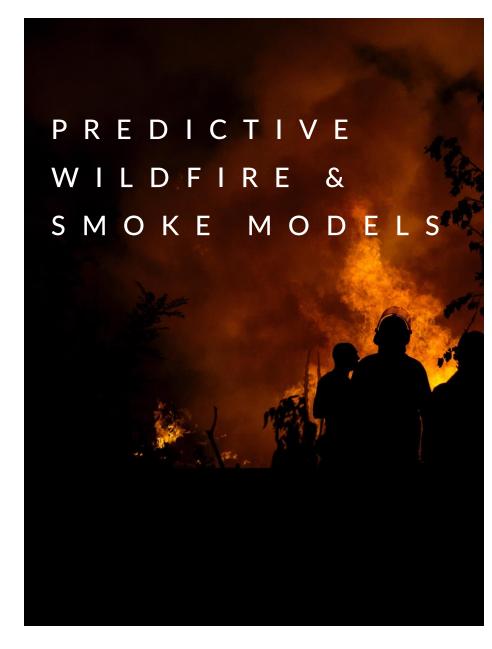




A WARMING PLANET

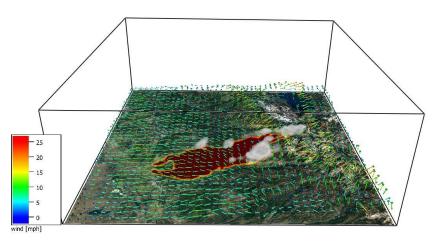








TIM BROWN, Ph.D.









# DROUGHT





## THE NEVADA WATER RESOURCES INITIATIVE











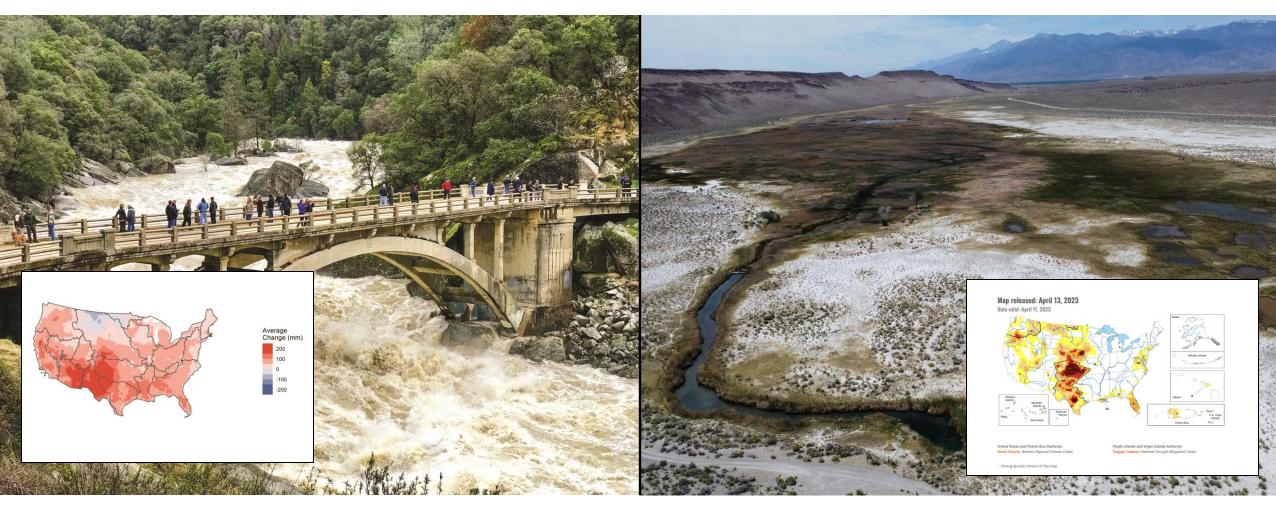


PROVIDING IMPACTFUL DATA FOR LOCAL AND REGIONAL DECISION-MAKING





# WEATHER MODELING



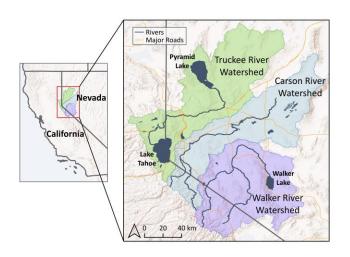
ATMOSPHERIC RIVERS

DROUGHT MONITOR



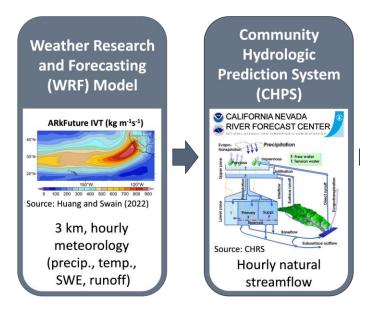
# ARkStorm2.0 @ Sierra Front

Engaging emergency planners to anticipate impacts of extreme storms after wildfires



Sierra Front watersheds Truckee, Carson, Walker AR2.0 scenario used as input to hydrologic models then overlaid with socioeconomic data, wildfire burnscars, landslide/debris flow predictions, and critical infrastructure.





Visualized in a map App to support ER planning and exercises



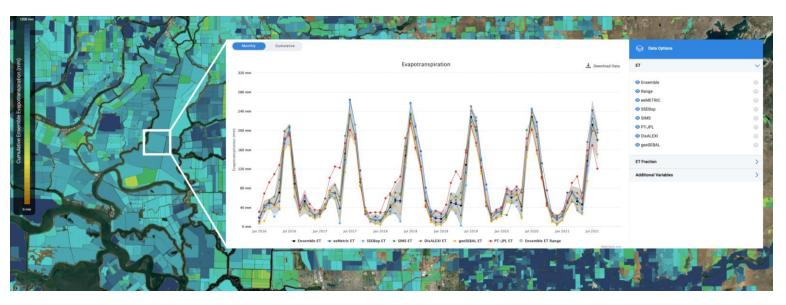
For more information see: https://www.dri.edu/project/arkstormtahoe-2-0/



# **OPENET**

FILLING THE BIGGEST DATA GAP IN WATER MANAGEMENT



















# ARCHAEOLOGY







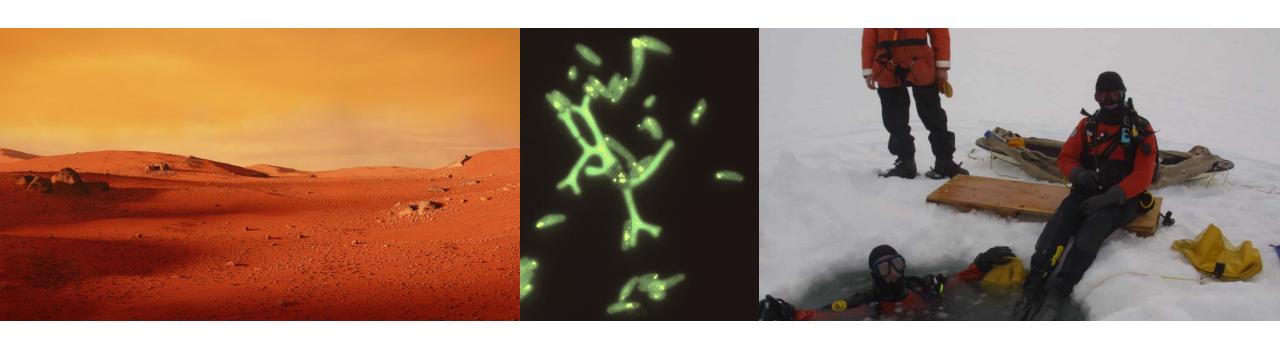








# LIFE IN EXTREME ENVIRONMENTS







# SOLAR





# ECOCELLS





## PROTECTING NATIONAL PARK SCENERY











K-12 GREEN BOX PROGRAM











## STEM EDUCATOR PROFESSIONAL DEVELOPMENT













## UNDERGRADUATE RESEARCH IMMERSION INTERNSHIP PROGRAM







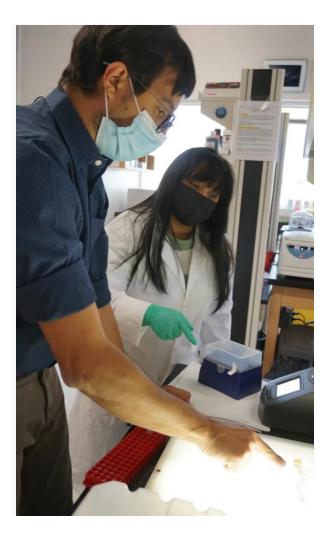














# SUPPORTING STUDENTS















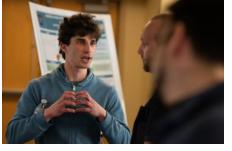








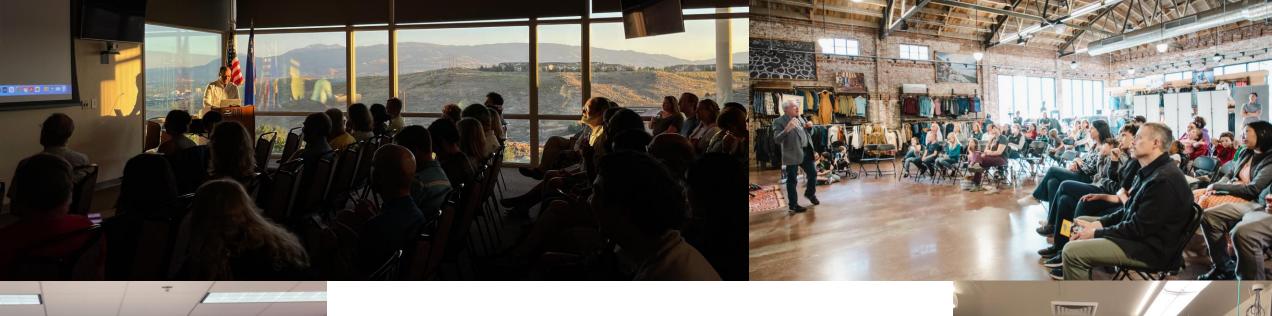














## C O M M U N I T Y O U T R E A C H A N D E N G A G E M E N T

**PUBLIC EVENTS** 

SOCIAL MEDIA ENGAGEMENT

COMMUNITY OUTREACH



## DIVERSITY OF FUNDING SOURCES

































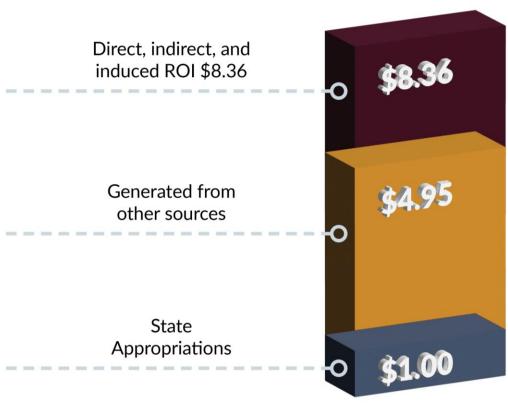






# ECONOMIC IMPACT & RETURN ON STATE INVESTMENT







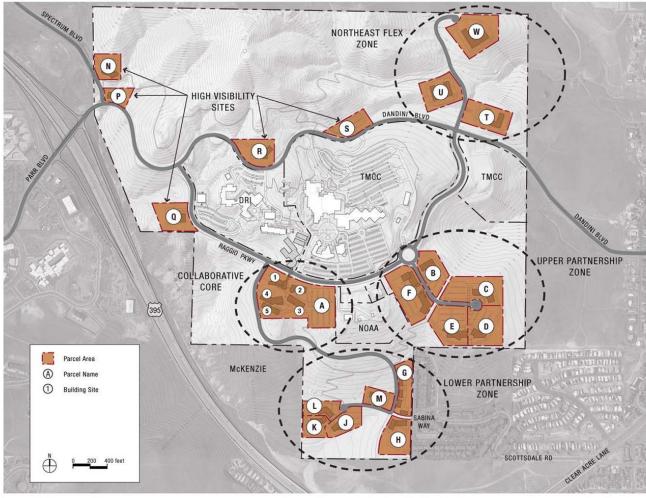


Figure 3.1 I Development Zones and Parcels







# THANK YOU



RESEARCHING THE HUMAN IMPACT ON THE ENVIRONMENT AND THE ENVIRONMENT'S IMPACT ON HUMANS

WILL SHEET