



# Accelerating Climate Progress with AI: From Science to Action Workshop

*Hosted by the National Academies Roundtable on Artificial Intelligence and Climate Change*

# Expectations for Conduct

We are committed to fostering a professional, respectful, inclusive environment where all participants feel safe and welcome to participate in an atmosphere that is free of harassment and discrimination

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# Engaging in the Conversation



Join our Slido to ask questions, leave comments, and respond to polls



In person participants will be invited to the microphones during Q&A

# Artificial Intelligence and Climate Roundtable

This Roundtable fosters ongoing discussions, shared learning, and coordination around emerging issues related to AI and climate change. The Roundtable explores both how AI can combat climate change and the environmental impact of AI itself, encompassing technical, social, and behavioral dimensions.

This activity is supported by **Google**, the **Heising-Simon Foundation**, **IBM**, **Microsoft**, the **Patrick J. McGovern Foundation**, the **William and Floral Hewlett Foundation**, and a grant from the **Chan Zuckerberg Initiative DAF**, and advised fund of **Silicon Valley Community Foundation**.



# Thank you to the Accelerating Climate Progress with AI Workshop Planning Committee!

**Stephan Sain,**  
*chair*  
Jupiter  
Intelligence

**Katherine  
Dagon**  
National Science  
Foundation

**Leila Doty**  
City of San José

**Kaiyu Guan**  
University of  
Illinois Urbana-  
Champaign

**Lynn Kaack**  
Hertie School

**Amy Luers**  
Microsoft

**Soheil Salehian**  
Planet  
Reimagined

**Adrienne  
Wootten**  
University of  
Oklahoma

# Accelerating Climate Progress with AI

## Workshop Statement of Task

The workshop will serve as a forum for interdisciplinary, cross-sectoral dialogue to facilitate cross-sector engagement, identify critical applications where AI can inform climate action at speed and scale, and consider how AI's broader societal impacts affect approaches to addressing climate change. The workshop may include discussions of:

- The use of AI in climate modeling and emerging AI tools that can advance climate adaptation, mitigation, and resilience efforts.
- Areas where AI could facilitate near-term advancements in climate science and/or the transformation of that science to actionable information for addressing climate threats and impacts (for example, in agriculture, urban systems, water systems/management, power grid operations, carbon management, climate finance, policy, laws, and public health).
- Stakeholders' key needs for climate information at various spatial (e.g. local to national) and temporal scales.
- Expanded opportunities for interdisciplinary and cross-sector partnerships to co-develop responsible climate-AI tools, including consideration of how to incorporate findable, accessible, interoperable, and reusable (FAIR) principles and data access and management.

# Day 1 Agenda

## January 13, 2026



Join our Slido to ask questions, leave comments, and respond to polls



9:00 AM (PT)	<b>Welcome &amp; Setting the Stage</b> Stephan Sain, Jupiter Intelligence
9:15 AM (PT)	<b>Keynote: AI and Climate Change: Opportunities, Challenges, and Dangers</b> David Rolnick, McGill University and Mila
9:45 AM (PT)	<b>Climate Decision Making in the Age of GenAI</b> Angel Hsu, University of North Carolina at Chapel Hill
10:15 AM (PT)	<b>BREAK</b>
10:25 AM (PT)	<b>Using AI to Advance Climate Science to Meet User Needs</b>
10:30 AM (PT)	<b>Living with Wildland Fire: AI to Inform Adaptation</b>
11:45 AM (PT)	<b>AI for Water Resource Management</b>
12:30 PM (PT)	<b>LUNCH</b>
1:30 PM (PT)	<b>Use of AI in Agriculture and Land Management</b>
2:40 PM (PT)	<b>AI in Urban Planning for Climate Change Impacts</b>
3:55 PM (PT)	<b>BREAK</b>
4:15 PM (PT)	<b>AI: Solution or Obstacle for Climate Action?</b> Francesca Dominici, Harvard University
4:40 PM (PT)	<b>Day 1 Wrap-Up</b>
5:00 PM (PT)	<b>ADJOURN</b>

# Workshop Attendees Who is here?



Join our Slido to ask questions, leave comments, and respond to polls



## Discussion Question

What sector is your primary affiliation?

- A.** Academia – student
- B.** Academia – faculty /staff
- C.** Private
- D.** Public
- E.** Non-profit



# What sector is your primary affiliation?

Multiple Choice Poll



201 votes



201 participants

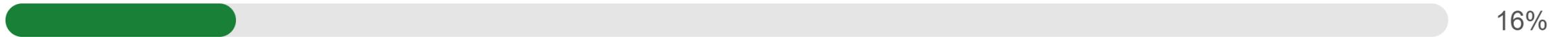
Academia - Student - 24 votes



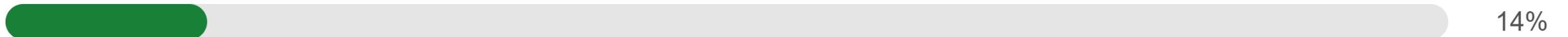
Academia - Faculty or Staff - 88 votes



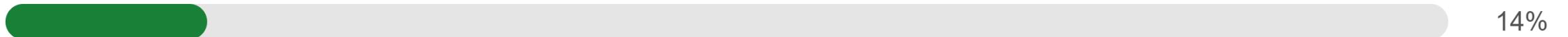
Private - 33 votes



Public - 28 votes



Non-profit - 28 votes



# Workshop Attendees Who is here?



Join our Slido to ask questions, leave comments, and respond to polls



## Discussion Question

How familiar are you with the use of Artificial Intelligence in climate science or in decision making tools for climate action?

- A.** I am an expert or use tools regularly
- B.** I have a solid understanding of one or both of these topics
- C.** I have some basic knowledge
- D.** This is a new topic for me



# How familiar are you with the use of Artificial Intelligence in climate science or in decision-making tools for climate action?

Multiple Choice Poll



201 votes



201 participants

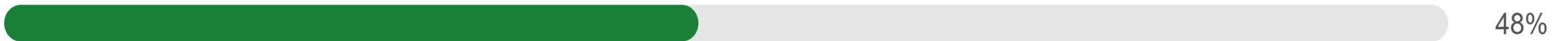
I am an expert/I use the tools regularly - 23 votes



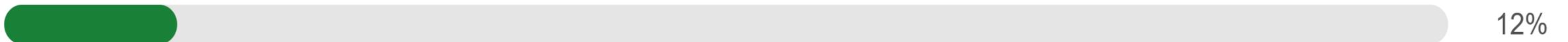
I have a solid understanding of one or both of these topics - 58 votes



I have some basic knowledge - 96 votes



This is a new topic for me - 24 votes



# Workshop Attendees Who is here?



## Open Response Question

In 1-2 words, what you hear the terms “AI” and “climate” together, what comes to mind?

Join our Slido to ask questions, leave comments, and respond to polls



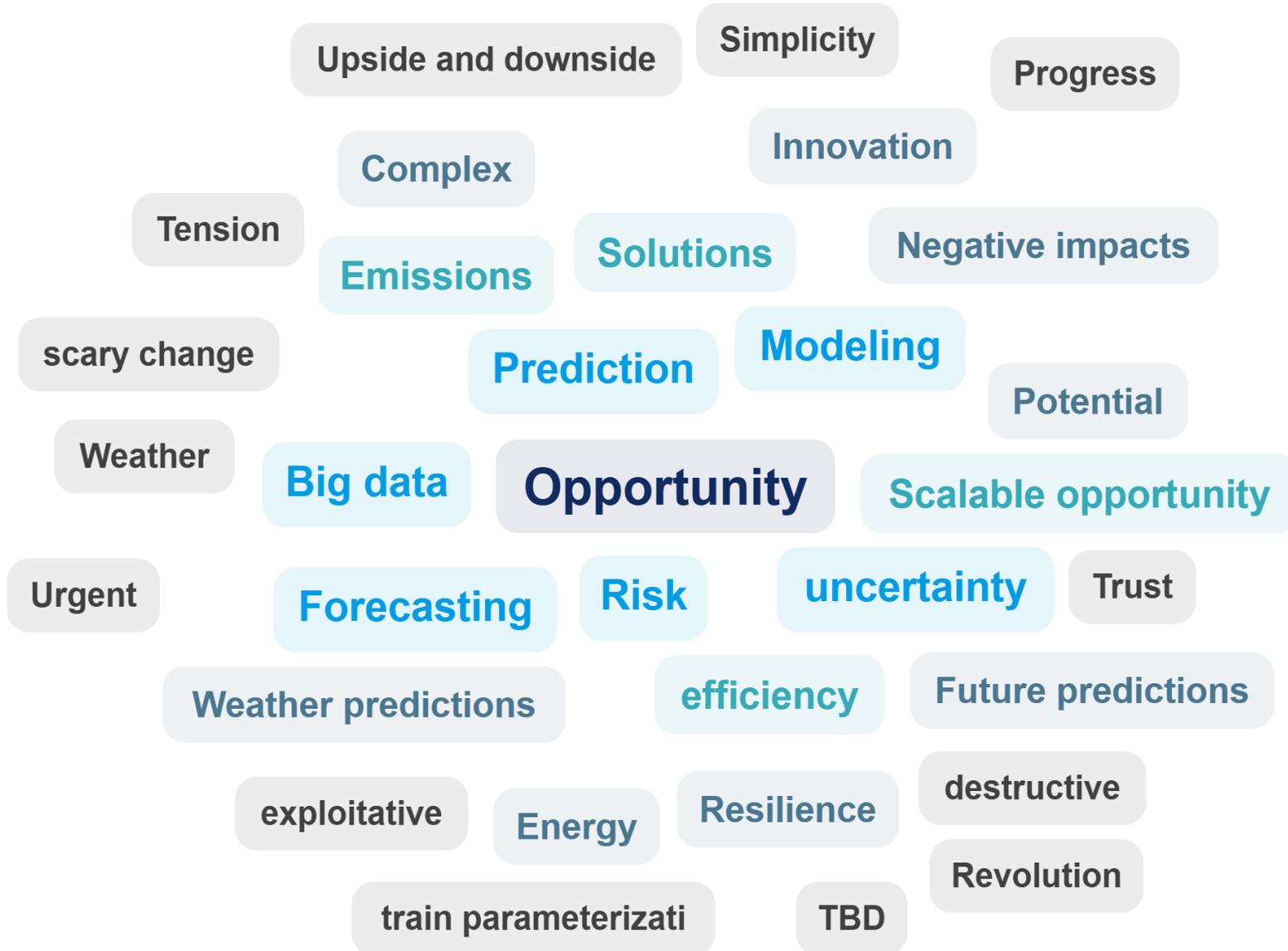


In 1-2 words, when you hear the terms "AI" and "climate" together, what comes to mind?

Wordcloud Poll

164 responses

164 participants



# **Artificial Intelligence and climate change: opportunities, challenges and dangers**

*by David Rolnick*

# **Climate Decision Making in the Age of GenAI**

*by Angel Hsu*

ACCELERATING CLIMATE PROGRESS WITH AI: FROM SCIENCE TO ACTION WORKSHOP

# Using AI to Advance Climate Science to Meet User Needs

Join our Slido to ask  
questions, leave  
comments, and  
respond to polls



# Living with Wildland Fire: AI to Inform Adaptation

AI-enhanced tools can be used to both address fires when they occur and identify land management solutions for fire prevention. However, challenges exist related to accessing data for to be used in climate models, downscaling outputs for local actions, and standardizing approaches to using AI-enhanced tools for forecasting fire weather. Through moderated discussion, panelists will highlight opportunities to integrate AI into approaches to wildland fire detection and prevention, and highlight solutions to the challenges that exist in this space.

## Moderator

**Hugo Lee**, National Aeronautics and Space Administration

**Andre Perkins**, Allen Institute for Artificial Intelligence

**İlkay Altıntaş**, WIFIRE

**James Randerson**, University of California – Irvine

**Alan Talhelm**, CAL FIRE

# Climate Modeling @ Ai2

W. Andre Perkins  
Senior Research Engineer  
Allen Institute for AI, Seattle



Andre Perkins

Spencer Clark

Brian Henn

Anna Kwa

Jeremy McGibbon

Chris Bretherton

Oli Watt-Meyer

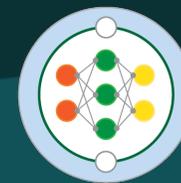
Elynn Wu

James Duncan

Troy Arcomano



External partners



M<sup>2</sup>InES



GFDL



LLNL



Building breakthrough AI to solve  
the world's biggest problems

# Are we ready for AI in Climate Research?

Panel Presentation for NASEM “Accelerating Climate Progress with AI:  
From Science to Action Workshop” -- (Remote) January 14, 2026

**Presenter: İlkay ALTINTAŞ, Ph.D.**

**University of California, San Diego**

Chief Data Science Officer, **San Diego Supercomputer Center**  
Founding Faculty Fellow, **Halicioğlu Data Science Institute**  
Founding Director, **Societal Computing and Innovation Lab**  
Joint Faculty Appointee, **Los Alamos National Laboratory**



**Societal Computing  
and Innovation Lab**

**SAN DIEGO  
SUPERCOMPUTER CENTER**

UC San Diego

# Roles for AI in Wildfire Resilience in California

Alan Talhelm, PhD  
Assistant Deputy Director  
Climate & Energy



# Living with Wildland Fire: AI to Inform Adaptation



Join our Slido to ask questions, leave comments, and respond to polls



## Discussion Question

What do you think should be the top priority near-term focus area to improve the accuracy and usability of wildland fire information developed using AI?

- A.** Expanded collection of high-quality observational data to train and evaluate AI models
- B.** Improved communication and transparency about how AI is used in wildland fire science and/or development of applications that can inform decision-making
- C.** Use of AI to improve model downscaling and fine-scale spatial resolution data
- D.** Addressing workforce limitations (e.g., developing AI-based tools that can assist in forest management)



What do you think should be the top priority, near-term focus area to improve the accuracy and useability of wildland fire information developed using AI?

Multiple Choice Poll

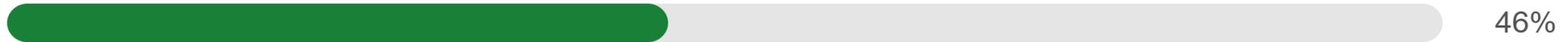


68 votes



68 participants

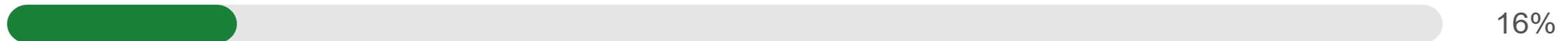
Expanded collection of high-quality observational data to train and evaluate AI models - 31 votes



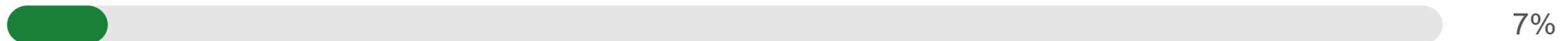
Improved communication and transparency about how AI is used in wildland fire science and/or development of applications that can inform decision making - 21 votes



Use of AI to improve model downscaling and fine-scale spatial resolution data - 11 votes



Addressing workforce limitations (e.g. developing AI-based tools that can assist in forest management) - 5 votes



# AI for Water Resource Management

AI can be used to advance climate action related to hydrology, water quality, water resources, and water resource management more broadly. However, challenges exist related to how AI-enhanced tools can help clarify uncertainty. Through moderated discussion, panelists will highlight activities that integrate AI with hydrologic and climate modeling and the potential use of AI for management decision-making.

## Moderator

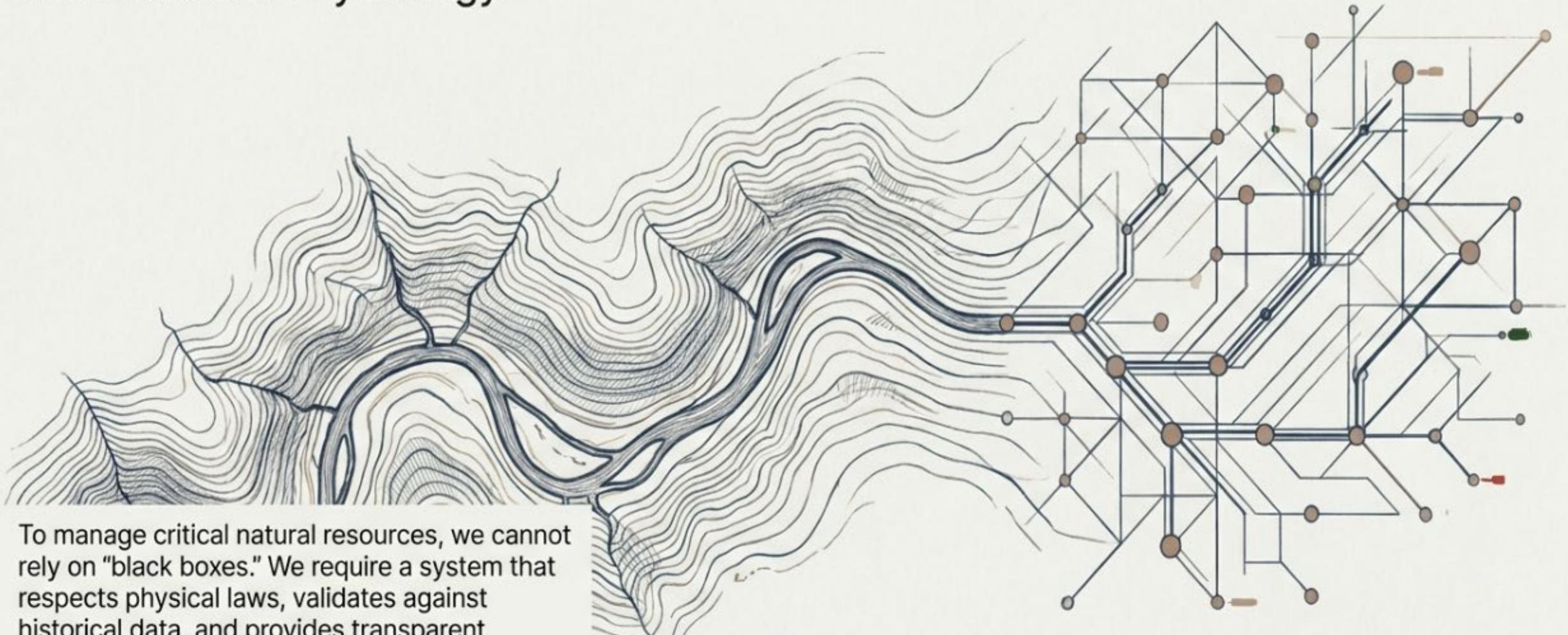
**Adrienne Wooten**, University of Oklahoma

**Debaditya Chakraborty**, University of Texas at San Antonio

**Kathleen Boomer**, Foundation for Food and Agricultural Research

# The Pillars of Trustworthy AI

Bridging Physics, Data, and Decision-Making  
in Climate and Hydrology.



To manage critical natural resources, we cannot rely on "black boxes." We require a system that respects physical laws, validates against historical data, and provides transparent outputs for high-stakes decision-making.

Based on the research and frameworks of Dr. Debaditya Chakraborty



# Trustworthy AI for Water Management

Accelerating Climate Progress with AI:  
From Science to Action  
January 13, 2026

Kathleen Boomer  
Scientific Program Director,  
Sustaining Vibrant Agroecosystems (Water)



# AI for Water Resource Management



Join our Slido to ask questions, leave comments, and respond to polls



## Open Response Question

In 1-2 words, what do you view as the primary challenge to incorporate AI in climate planning for water resource management and/or water quality?

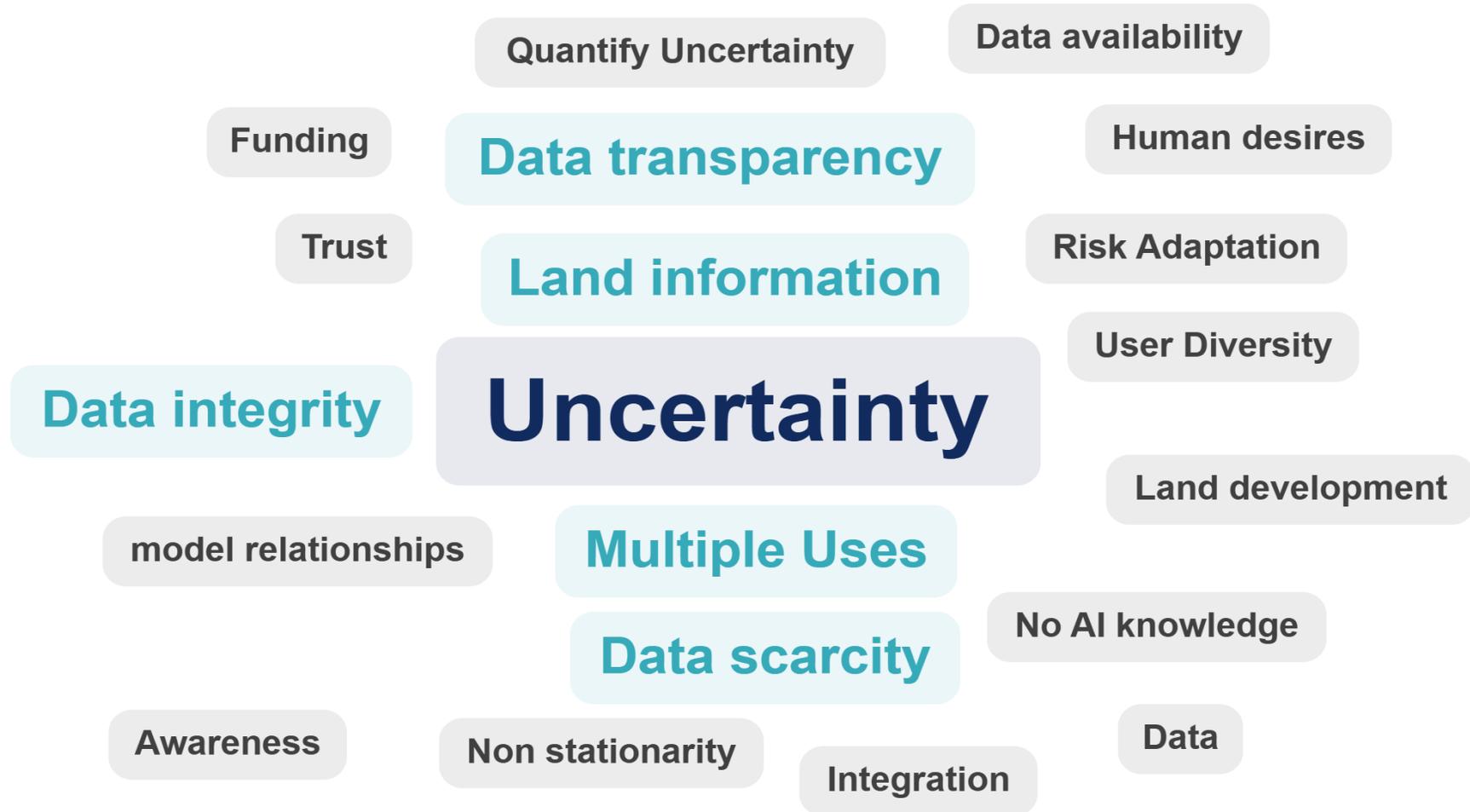


In 1-2 words, what is the primary challenge to incorporate AI in climate planning for water resource management and / or water quality?

Wordcloud Poll

28 responses

28 participants





**Thank you for attending the National Academies' Accelerating Climate Progress with AI: From Science to Action workshop!**

**We will resume at 1:30 PM (PT)**

# Use of AI in Agriculture and Land Management

AI-enhanced agriculture and land management tools have changed the way farmers choose agricultural practices – including what crops to plant, when to plant them, and what seasonal weather to expect during planting and harvesting seasons – and address food insecurity. Through moderated discussion, panelists will discuss data and design challenges related to getting AI tools from the R&D stage to the application space, highlighting the current state of AI-enhanced tools being used for agriculture and land management and predicting what is to come with the proper investment.

## Moderator

**Kaiyu Guan**, University of Illinois  
Urbana-Champaign

**Catherine Nakalembe**, University of  
Maryland

**David Lobell**, Stanford University

**Emma Bassein**, John Deere

# From Models to Multipliers: Translational Geo-AI for Scalable Climate Resilience

Catherine Nakalembe  
Assistant Professor | XylemLab | University of Maryland  
National Academies Accelerating Climate Progress Workshop  
Arnold and Mabel Beckman Center | January 13-14, 2026



# Use of AI in Agriculture and Land Management



Join our Slido to ask questions, leave comments, and respond to polls



## Discussion Question

Based on the discussion in this panel, where do you think the largest opportunities lie for advancing AI in agriculture in the near term?

- A.** Expanded collection of high-quality observational data to train and evaluate AI models
- B.** Using AI to provide more local-scale/granular information to inform decision-making
- C.** Enhanced communication to various stakeholder groups about how and where AI can improve agricultural practices



Based on the discussion in this panel, where do you think the largest opportunities lie for advancing AI in agriculture in the near term?

Multiple Choice Poll 42 votes 42 participants

Expanded collection of high-quality observational data to train and evaluate AI models - 15 votes



Using AI to provide more local-scale/granular information to inform decision making - 14 votes



Enhanced communication to various stakeholder groups about how and where AI can improve agricultural practices - 13 votes



# AI in Urban Planning for Climate Change Impacts & Adaptation

Through moderated discussion, speakers will highlight the challenges and opportunities for AI-enhanced tools to support the translation of data related to flooding and urban heat islands into understanding of risk for various sectors, including city-planning, reinsurance, and the general public.

## Moderator

**Michael Méndez**, University of  
California - Irvine

**Adam Nayak**, Columbia University

**Chris Belasco**, City of Pittsburgh  
Pennsylvania

**Mariela Alfonzo**, State of Place



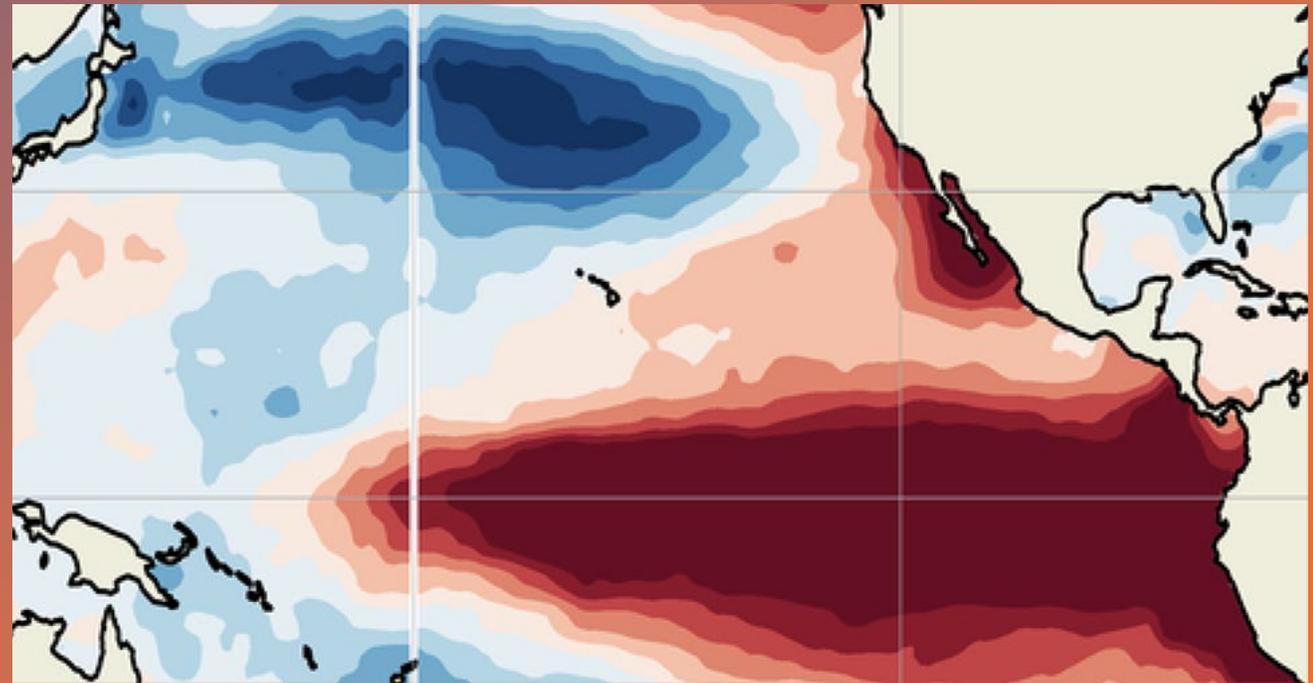
# Futures in AI for Climate Risk

Spatiotemporal Planning  
for an Evolving Climate

**Adam Nayak**

PhD Candidate

*Dept. Earth & Environmental Engineering,  
Columbia University*





# Planning Tree Planting for Climate Resilience

Chris Belasco, PhD

Senior Manager of Digital Services and Chief  
Data Officer

Department of Innovation and Performance  
City of Pittsburgh



STATE OF PLACE

# NATIONAL ACADEMIES ACCELERATING CLIMATE PROGRESS WORKSHOP:

How Data & AI can Harness the Power of  
Place to Improve Climate Resilience &  
Quality of Life

Mariela Alfonzo, Ph.D,  
Founder/CEO, State of Place  
[www.stateofplace.co](http://www.stateofplace.co)  
[mariela@stateofplace.co](mailto:mariela@stateofplace.co)  
Jan 12<sup>th</sup>, 2026



# AI in Urban Planning for Climate Change Impacts & Adaptation



Join our Slido to ask questions, leave comments, and respond to polls



## Open Response Question

In 1-2 words, what is your primary takeaway from the AI in Urban Planning for Climate Change Impacts & Adaptation panel?



# In 1-2 words, what is your primary takeaway from the AI in Urban Planning for Climate Change Impacts & Adaptation panel?

Wordcloud Poll



42 responses



32 participants





**Thank you for attending the National Academies' Accelerating Climate Progress with AI: From Science to Action workshop!**

**We will resume at 4:15 PM (PT)**

# **AI: Solution or Obstacle for Climate Action?**

*by Francesca Dominici*

# AI: Solution or Obstacle for Climate Action?



Join our Slido to ask questions, leave comments, and respond to polls



## Technical Trivia

How many gallons of water per day does a typical U.S. hyperscaler consume for cooling?

- A. 500 gallons per day
- B. 500 thousand gallons per day
- C. 3 million gallons per day

 How many gallons of water per day does a typical U.S. hyperscaler consume for cooling?

Multiple Choice Poll  29 votes  29 participants

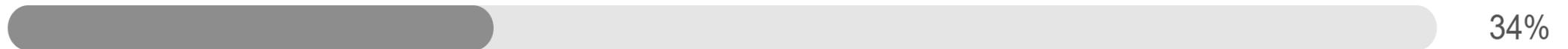
500 gallons per day - 3 votes



500 thousand gallons per day - 16 votes



3 million gallons per day - 10 votes



# Day 1 Takeaways



Join our Slido to ask questions, leave comments, and respond to polls



## Open Response Question

What is your biggest takeaway from the discussions you heard today?

## Open Response Question

What is your biggest takeaway from the discussions you heard today?

Trustworthiness is a major hinderance

Elephant and Bee AI solutions and their relevance

Verification of data, validation of results, and need for xAI tools and training

The risks for AI include losing the ability to use it for climate science if the backlash, government policies, etc. are too limiting. Data centers are a problem for the climate, but so is not having them.

only data cannot solve the problem without proper use of instrument

AI may be the elephant in the room, but co-designed with domain experts can be as brilliant and busy as bees

Bees & elephants

Diverse application

Embellishments 🤖

1. Data for verification
2. Sensors on farm equipment for improving farming processes.
3. AI proper training

The breadth of tools and the challenges to using the right tool. Challenges of trust

Data validity  
Data variety  
Scope and specific need  
Data science = Domain science

## Open Response Question

What is your biggest takeaway from the discussions you heard today?

Scale matters

AI needs to have human expertise and ethical guidance. Lots of good data. Farmers are very smart, one cannot fool them.

There's a pressing need to appreciate and represent specific decision context, but also to develop approaches that scale. Navigating this tension is a key priority.

The continued effort to solving the problems we are facing using AI.

Climate is still a talking point; cannot hide an elephant behind a bee 🐝

Fancy new tools don't matter if the people can't or don't want to use them.

Quality data

Uncertainty

We need to think not just about whether we can (with AI), but whether we should.

## Open Response Question

What is your biggest takeaway from the discussions you heard today?

Given that AI is rapidly advancing, I am concerned about how the outcomes and narrative can be accurately interpreted today. I believe the actual impact and figures are significantly higher than the percentages currently shown. How can we adjust the report to reflect the growth of a discipline as fast-moving as AI?

AI is not useful (and may actually be detrimental) without the human expertise behind/to properly interpret it. Bees and elephants. But a lot of the negative potential impacts could be mitigated by using that expertise. I also seem to remember hearing: people's perception of trustworthiness of AI results is not correlated to how factually accurate it is.

The value of drilled down data in an emerging data overload scenario. The value of differentiating the focus of one's work between the proverbial bees and elephants. Social sciences identifies physicians as high-ranking trusted sources of information for US Americans, when communicating needs and results of climate and health data, underscoring the value of cross sector work to access climate data in a frame of trustworthiness.



# Accelerating Climate Progress with AI: From Science to Action Workshop

*Hosted by the National Academies Roundtable on Artificial Intelligence and Climate Change*

# In 1-2 words, when you hear the terms “AI” and “climate” together, what comes to mind?

Day 1 Ice Breakers (4/4)

1 6 4

In 1-2 words, when you hear the terms "AI" and "climate" together, what comes to mind?



# Day 1

## Overall Theme\*



The workshop surfaced a strong consensus that **technical progress in AI is outpacing answers to questions of trust, governance, equity, and real-world decision-making**. Many of the most pressing challenges are not about whether AI works—but **how, when, for whom, and under what conditions it should be used**.

\*as summarized by ChatGPT

# Key Takeaways from Participants

**Zewei Ma, University of Illinois at Urbana-Champaign**

**Donna Gerardi, Washington State University, State Academies of Science**



# Day 2 Agenda

## January 14, 2026



Join our Slido to ask questions, leave comments, and responds to polls



- 9:00 AM (PT) **Welcome & Reflections from Day 1**  
Stephan Sain, Jupiter Intelligence
- 9:30 AM (PT) **Keynote: The Trust Deficit: How AI Can Bridge or Widen the Divide in Climate Progress**  
Kieran White, KW MEDIA
- 10:00 AM (PT) **Keynote: Earth Observation for Climate Action**  
Dan Hammer, Renaissance Philanthropy and LGND
- 10:30 AM (PT) **BREAK**
- 10:50 AM (PT) **Addressing Common Opportunities & Challenges to Accelerate Action**
- 12:00 PM (PT) **LUNCH**
- 1:00 PM (PT) **Enhancing Cross-Sectoral Partnerships**
- 2:10 PM (PT) **Accelerating Climate Action with AI – A Path Forward**
- 3:10 PM (PT) **Meeting Reflections and Takeaways**
- 3:30 PM (PT) **ADJOURN**

# **The Trust Deficit: How AI Can Bridge or Widen the Divide in Climate Progress**

*by Kieran White*

# Earth Observation for Climate Action

*by Dan Hammer*

A photograph showing three individuals from behind, seated at a desk in a control room or data center. They are looking at a wall of eight large monitors. The monitors display various data visualizations, including maps of the world and colorful heatmaps or charts. The scene is dimly lit, with the primary light source being the screens themselves. The overall atmosphere is professional and focused on data analysis.

**Thank you for attending the National Academies’  
Accelerating Climate Progress with AI: From  
Science to Action workshop!**

**We will resume at 10:50 AM (PT)**

# Addressing Common Opportunities & Challenges to Accelerate Action

This session will consider common issues in the utilization of AI in climate research and the data that is utilized and generated; and near-term opportunities to address those issues to advance opportunities for greater action across sectors/topical areas. Panelists will discuss near-term opportunities to improve the incorporation of AI into climate sciences that inform decision making and challenges that need to be overcome to accelerate climate action.

## Moderator

**John Holmes**, National Academies of Sciences, Engineering, and Medicine

**Karen McKinnon**, University of California – Los Angeles

**Douglas Rao**, North Carolina State University

**Monica Morrison**, NSF NCAR



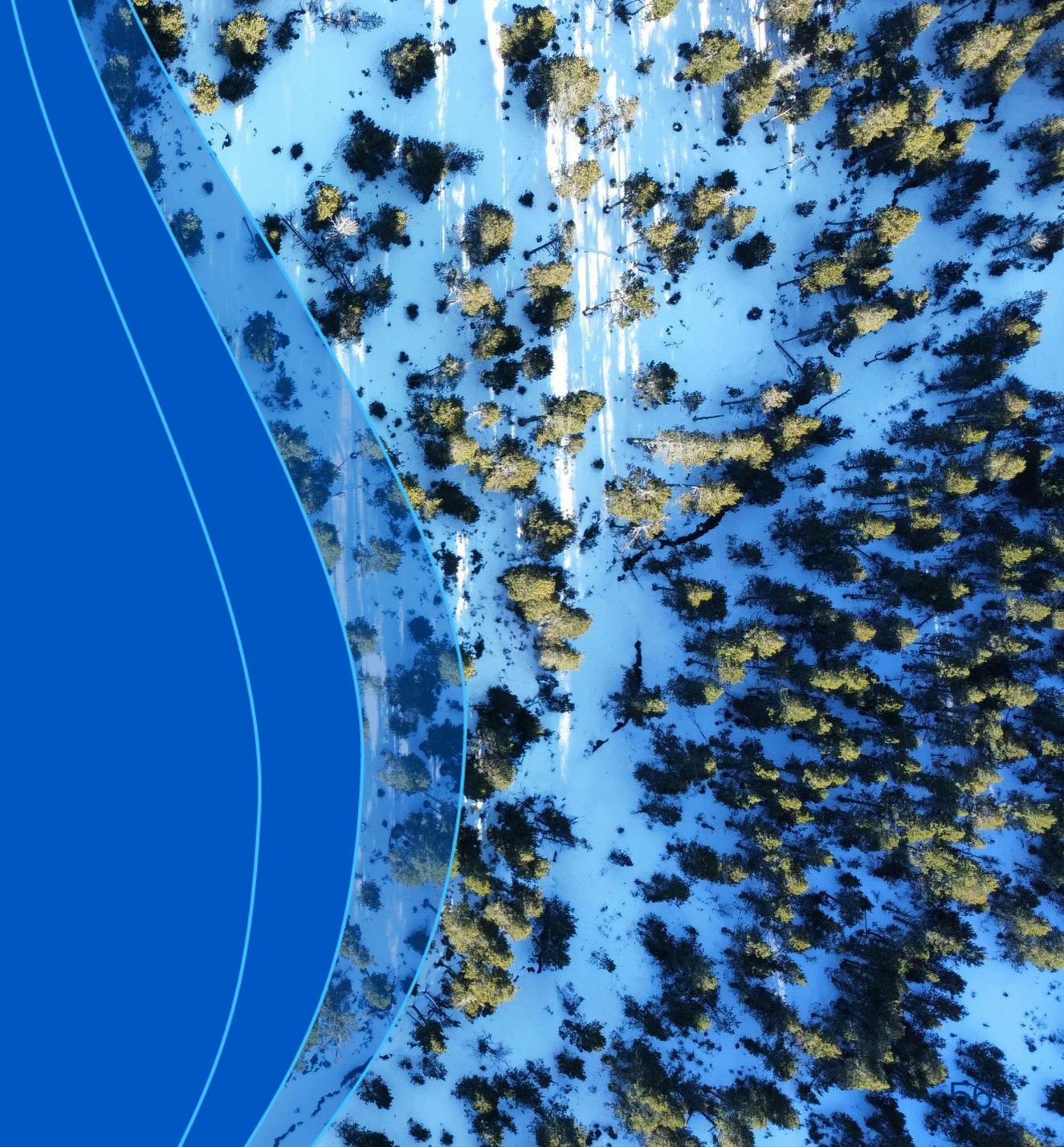
**NCAR**  
OPERATED BY UCAR

14 JANUARY 2026

# Responsible AI for Actionable Climate Science

**Monica Ainhorn Morrison, PhD**  
Climate and Global Dynamics Laboratory

*Epistemic: relating to knowledge or  
knowledge generating processes*



# Addressing Common Opportunities & Challenges to Accelerate Action



Join our Slido to ask questions, leave comments, and responds to polls



## Discussion Question

In your view, which of these areas is a top priority for fostering accelerated climate action using AI in the near term?

- A.** Creating a path to democratization of information and modeling platforms
- B.** Addressing uncertainties in climate information developed using AI models
- C.** Addressing uncertainties in the useability of or trust in AI tools that can inform decision-making (e.g., is information fit for purpose?)
- D.** Integrating available data across disciplines for use in AI models
- E.** Other



# In your view, which of these areas is a top priority for fostering accelerated climate action using AI in the near term?

Multiple Choice Poll

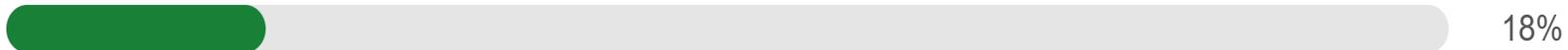


38 votes

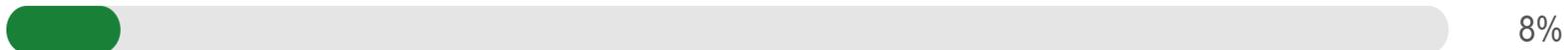


38 participants

Creating a path to democratization of information and modeling platforms - 7 votes



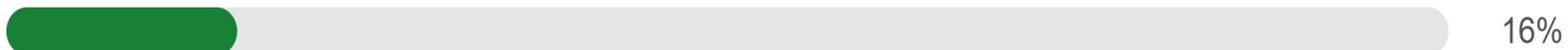
Addressing uncertainties in climate information developed using AI models - 3 votes



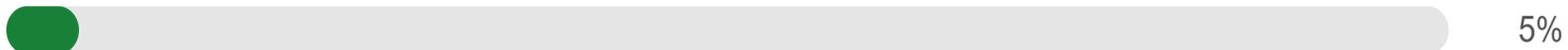
Addressing uncertainties in the usability or trust of AI tools that can inform decision making (e.g., is information fit for purpose?) - 20 votes



Integrating available data across disciplines for use in AI models - 6 votes



Other - 2 votes



If you chose "Other", please add your top priority area below

Open text poll



3 responses



3 participants



Katie Hasty  
"translating" data to action for laypersons or populations



Catherine Nakalembe  
Translating current capabilities into decision making



Jason Furtado  
Clear defined use cases



**Thank you for attending the National Academies' Accelerating Climate Progress with AI: From Science to Action workshop!**

**We will resume at 1:00 PM (PT)**

# Enhancing Cross-Sectoral Partnerships

This session will bring stakeholders engaged in AI development, climate sciences, climate action, decision making, and related areas to discuss how cross-sectoral partnerships may be strengthened and expanded to better meet societal needs.

**Moderator**

**Amy Luers**, Microsoft

**Tom Hamill**, The Weather Company

**F. Paul Bertetti**, Edwards Aquifer Authority

**Christopher Wirz**, University of Illinois Urbana- Champaign

# **Cross-Sectoral Partnerships in Applying AI for Water Resources Management: A Regional Agency Perspective**

*Accelerating Climate Progress with AI:  
From Science to Action Workshop  
January 14, 2026*

F.P. Bertetti, H. Başağaoğlu, C. Yang, L. Schmidt,  
A.M. Wooten, C. Sharma, D. Chakraborty

EDWARDS AQUIFER AUTHORITY  
SOUTH CENTRAL CLIMATE ADAPTATION SCIENCE CENTER  
UNIVERSITY OF TEXAS AT SAN ANTONIO

# Accelerating Climate Action with AI – A Path Forward

This session aims to synthesize and reflect on the workshop while also bringing in new perspectives to consider how to move things forward. Panelists will highlight what they heard are the greatest near-term opportunities to advance AI for climate action.

## Moderator

**Katie Dagon**, National Center for Atmospheric Research

**Alexis Hoffman**, Jupiter Intelligence

**Elizabeth Barnes**, Boston University

**Marc Alessi**, Union of Concerned Scientists

# Closing Thoughts

From the perspective of a climate + AI scientist

Elizabeth A. Barnes, PhD  
Dalton Family Chair in Environmental Data Science & Sustainability  
Professor of Computing & Data Sciences  
Professor of Earth & Environment  
Boston University

National Academies Roundtable on Artificial Intelligence & Climate Change  
Accelerating Climate Progress with AI: From Science to Action Workshop  
January 14, 2026

# { Closing Thoughts

National Academies Roundtable on Artificial Intelligence & Climate Change  
Accelerating Climate Progress with AI: From Science to Action

Marc J. Alessi, PhD  
Climate Attribution Science Fellow



# Workshop Takeaways



Join our Slido to ask questions, leave comments, and responds to polls



## Discussion Question

What general area did you learn the most about during this workshop?

- A.** Importance of trustworthiness in AI for climate science and action, and how trust may vary among stakeholder groups
- B.** How both AI and more traditional models, along with observational data, will be necessary to advance climate science and action
- C.** Different approaches for how AI can be used in climate science and climate action
- D.** AI used in climate science and action is different from ChatGPT
- E.** Other



# What general area did you learn the most about during this workshop?

Multiple Choice Poll

34 votes

34 participants

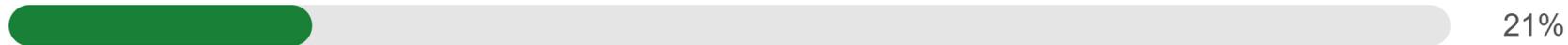
Importance of trustworthiness in AI for climate science and action, and how trust may vary among stakeholder groups - 17 votes



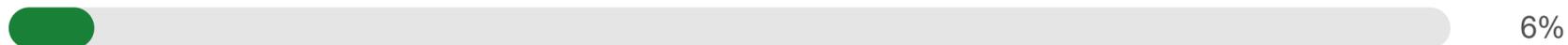
How both AI and more traditional models, along with observational data, will be necessary to advance climate science and action - 7 votes



Different approaches for how AI can be used in climate science and climate action - 7 votes



AI used in climate science and action is different from ChatGPT - 2 votes



Other - 1 vote



If you chose "Other", please add your top priority area below

Open text poll 2 responses 2 participants

- A Ann Bostrom  
Appetite for better understanding AI application partnerships
- C Costa Samaras  
Automated trustworthiness- building in systems that don't require user evaluations

# Workshop Takeaways



Join our Slido to ask questions, leave comments, and responds to polls



## Open Response Question

In 1-2 words, what is the greatest challenge you heard come out of the workshop?

## Open Response Question

In 1-2 words, what is the greatest opportunity you heard come out of the workshop?

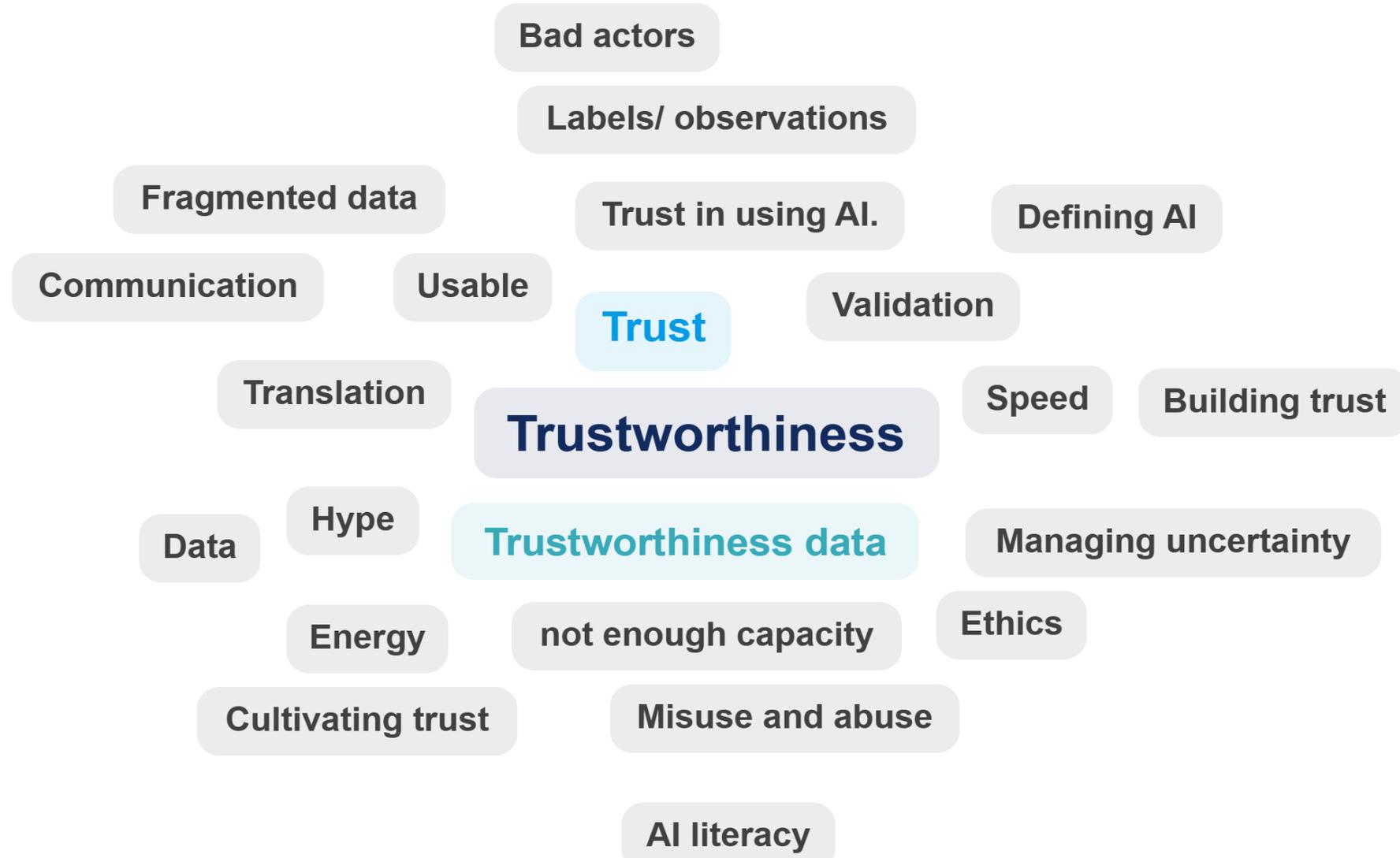


# In 1-2 words, what is the greatest challenge you heard come out of the workshop?

Wordcloud Poll

30 responses

30 participants





In 1-2 words, what is the greatest opportunity you heard come out of the workshop?

Wordcloud Poll

27 responses

27 participants



A photograph showing three individuals from behind, seated at a desk in a control room or data center. They are looking at a wall of eight large monitors. The monitors display various types of data: some show maps with color-coded overlays, others show abstract data visualizations, and one shows a satellite-style image of a landscape. The scene is dimly lit, with the primary light source being the screens themselves.

**Thank you for attending the National Academies’  
Accelerating Climate Progress with AI: From  
Science to Action workshop!**

**Please stay in touch**