

ARTIFICIAL INTELLIGENCE AND GEOSPATIAL REVOLUTION TO AVOID A BOILING AMAZON NOV.15.2023 **SESSION 2**



María Elena Gutiérrez ACCA

Deforestation and global warming, driven by the use of fossil fuels, threaten water supplies, food resources and ecosystems, affecting not only the Amazon, but also the coast and mountains of Peru. It is necessary that the academic community and politicians collaborate for rapid and effective actions, essential to recover and protect our biodiversity.

43



Thomas E. Rhodes USAID/PERU

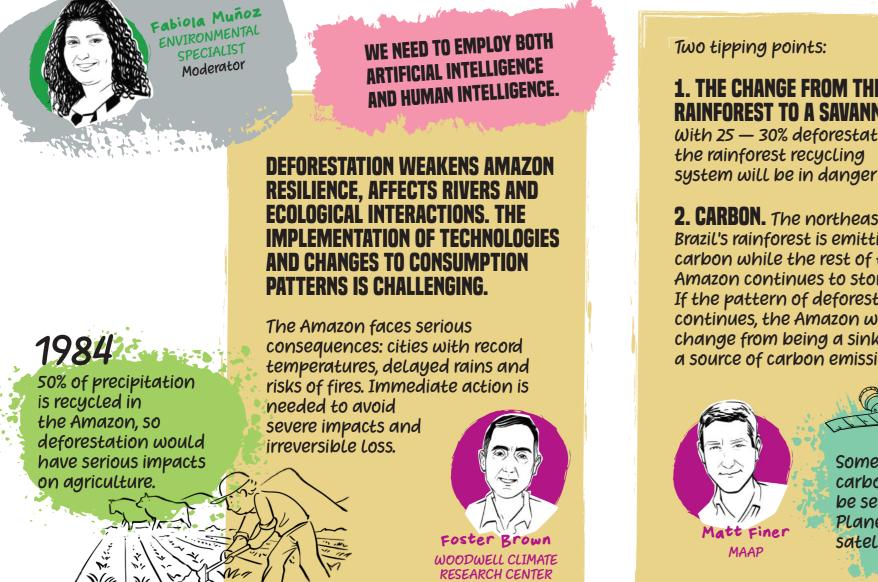
Achieving the Paris goals requires global collaboration. The urgency is real; we use AI and new geospatial technologies to predict and reduce environmental risks. USAID is committed to working with local and international allies on climate adaptation and mitigation. Through SERVIR-Amazonia and its collaboration with NASA, we take advantage of geospatial information to improve environmental monitoring and decision making. AmazonTEC guides us in understanding the potential of these tools, and the need for strong alliances to protect the Amazon.



Andreas Dahl Jørgensen NICFI

we want to bring a clear message to the COP "we will not be able to meet the Paris goals if we do not stop deforestation in the Amazon, protecting nature is a joint effort, the world needs to wake up and join this cause. At NICFI we work directly supporting carbon markets and expanding the value chains of indigenous communities and fighting predators, as well as improving technology to monitor and supervise forests".





1. THE CHANGE FROM THE RAINFOREST TO A SAVANNAH. with 25 — 30% deforestation, the rainforest recycling

2. CARBON. The northeast of Brazil's rainforest is emitting more carbon while the rest of the Amazon continues to store carbon. If the pattern of deforestation continues, the Amazon would change from being a sink to being a source of carbon emissions.



Some of the highest carbon reserves can be seen though Planet 3m resolution satellite images.

Organizer:



In collaboration with:







THIS IS A MOMENT **OF REVOLUTION.** Rebecca Moore **WE REACH INFLECTION** Google Earth Engine **POINTS WHERE DATA**, **TRANSFORMED INTO KNOWLEDGE, CAN GUIDE MORE INFORMED DECISIONS**

The massive amount of unanalyzed data is a challenge, but thanks to initiatives like Google Earth Engine and accessible policies, more than 100,000 users can access data in the cloud, enabling real changes in decision-making, especially in the protection of territories indigenous people and the prevention of deforestation.

USERS USING GOOGLE EARTH ENGINE

MORE THAN

con't

\$3

NISAR, NASA'S 2024 **MISSION. WILL DETECT CHANGES IN BIOMASS AND SURFACE**

Overcoming the challenge of cloud cover, NISAR will provide cloud-free images every 12 days, penetrating the Amazon canopy. It will be available through its own applications that will facilitate learning and data sharing.

TO COMBAT CLIMATE CHANGE.

A massive volume of 4.4 terabytes of data is expected, a seriour challenge!



Karina Pinasco SDSN AMAZONIA

we need tools that highlight and encourage positive actions to move towards a sustainable future in the Amazon region.

across multiple sectors. Jose Leandro

Fernandes

CIAT/CGIAR

Carmen Josse ECOCIENCIA FOUNDATION

technological evidence.

information, which is not

We live in an era of

unprecedented access to

It is essential to articulate

information and technology.

or coalitions between various

and, more broadly, the private

while we enjoy abundant

access to information and

technology, the key

lies in the ability to

interpret, coordinate

foster collaborations

innovations and

innovations and create alliances

organizations, companies, academia

sector to confront climate change.

There is often a gap between

always considered official or

adequately incorporated into

Technology is not a substitute for policy implementation. We require Leaders to modify their decisions to

the pace and precision of available

the evidence and available (ECUADOR

policymaking and law enforcement.

22

Climate action is extremely important for Amazonian countries, not only because of our rich biodiversity but also because of the political context.

TECHNOLOGY IS ESSENTIAL TO IDENTIFY SOLUTIONS, ALLOWING US TO RECOGNIZE AND VALUE THOSE WHO ARE CONTRIBUTING POSITIVELY.







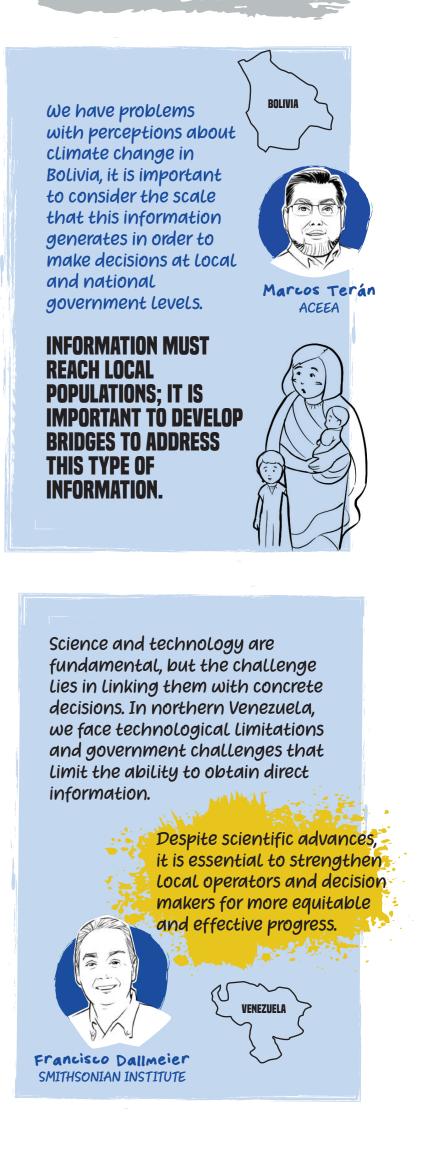








With the support of:





Noguerón WRI

Moderator