ABOUT

The Microsoft AI for Earth program makes advanced Microsoft Azure cloud computing resources and powerful AI tools, as well as AI expertise and training, to individuals and organizations working on environmental and conservation programs aimed towards transforming the way we are currently managing complex environmental challenges.

These awards are intended to drive exploration and discovery by providing innovative data science, spatial analysis, and visualization tools to organizations that are focused on finding solutions to climate change, loss of biodiversity, agricultural cost and yield, and increased water scarcity. Learn more about environmental sustainability at Microsoft.

TO DATE AI FOR EARTH HAS:

Awarded more than 35 grants to individuals and organizations in more than 10 countries.
Jane Goodall Institute (Africa)  
Using the power of Azure cloud to identify chimpanzee habitat connectivity and conservation priorities in Africa  
Biodiversity

International Center for Tropical Agriculture (Africa)  
Enhancing food and nutrition resilience in Africa through a Nutrition Early Warning System (NEWs)  
Agriculture

Southern California Coastal Water Research Project (USA)  
Using imagery from unmanned aerial systems (drones) to identify trash in waterways to inform cleanup efforts and determine trash policy effectiveness  
Water

Lakehead University (Canada)  
Development of a forest resource inventory by utilizing deep learning for automated tree species identification, stand delineation and land classification  
Biodiversity, Climate

University of Saskatchewan (Canada)  
Image and Video Analysis for Rapid Crop Phenotyping; Predicting Crop Phenotypes from Genotypes with Deep Learning  
Agriculture

Carnegie Mellon University (USA)  
Agriculture

University of Wisconsin-Madison (USA)  
Development of an Automated Computer Vision System to Monitor Behavior of Dairy Cows  
Agriculture

Michigan State University (USA)  
Complexity as a holistic path to sustainability, not a roadblock  
Agriculture, Climate, Biodiversity

Aalborg University (Denmark)  
Low-Cost Handheld Plant Health Monitoring Device for Resource Limited Regions  
Agriculture

Indraprastha Institute of Information Technology (India)  
Integration of the variability of the urban heat island of Bucharest (Romania) using coupled WRF, LSM and satellite imagery  
Climate

Taiwan AI (Taiwan)  
Beyond Beauty - Homeland From Above  
Agriculture, Climate

University of Maryland at Baltimore County  
Biodiversity

University of Oviedo (Spain)  
Integrated assessment of the variability of the urban heat island of Bucharest (Romania) using coupled WRF, LSM and satellite imagery  
Climate

University of Arizona (USA)  
Agriculture

University of California, Irvine (USA)  
Predicting Climate Change Research Using Dynamic Data Assimilation for Topic Modeling  
Water, Climate

Tohoku University (Japan)  
University of California, Irvine (USA)  
Dynamic Disaster Management Cloud Service Platform Based on Satellite Remote Sensing and Artificial Intelligence  
Climate

Georgia Institute of Technology (USA)  
Deep Learning for Fine-scale Population Maps  
Water, Biodiversity, Climate

University of Sts. Cyril and Methodius (Macedonia)  
Cloud based General Weed Detection Service  
Agriculture

Yale University School of Forestry and Environmental Studies (USA)  
Systematic ground truthing, land classification and crop health  
Agriculture

University of Oviedo (Spain)  
Development of tools for risk assessment in coastal areas with Geographic Information Systems  
Water, Climate

University of Bucharest (Romania)  
Integrated assessment of the variability of the urban heat island of Bucharest (Romania) using coupled WRF, LSM and satellite imagery  
Climate

Long Live the Kings (USA)  
Water, Climate

Chesapeake Conservancy (USA)  
Using organizations a faster, more effective, and lower cost land cover mapping tool to help them better analyze, monitor, and manage natural resources  
Agriculture, Biodiversity, Climate, Water

Microsoft Azure Award Grantees

AI FOR EARTH

Key

AGRICULTURE
WATER
BIODIVERSITY
CLIMATE CHANGE
MULTIPLE