

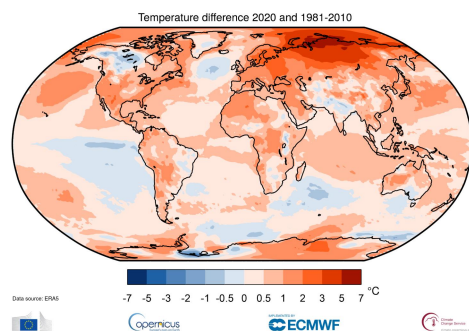


Domenico Vito, Osservatorio Parigi

Big Data, AI e Sostenibilità un'alleanza per il nostro futuro comune



Bioingegnere PhD, Osservatore alle Conferenze delle Parti dal 2015, **Membro della Società Italiana di Scienze del Clima (SISC)**, attivo in diverse organizzazioni e reti ambientaliste (The Climate Reality Project) e partecipante attivo di UN YOUNGO, la costituente dei giovani all'interno della Convenzione Quadro delle Nazioni Unite, in cui prende parte a vari gruppi di lavoro (Energia, Salute e Agricoltura) e funge da coordinatore tematico del Major Group for Children and Youth (MGCY) dell'**UNEP**, del **Microplastics and Marine Litter (ML&MP)** Working Group e del MOC-LLAB. Membro di GACSA e promotore del blog/canale YouTube HubZine Italia per la divulgazione sui negoziati internazionali e organizzatore dei Simposi sui Cambiamenti Climatici e del Climate Social Forum.



Climate Change

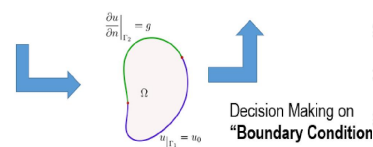


Marine litter

AREAS OF INTEREST

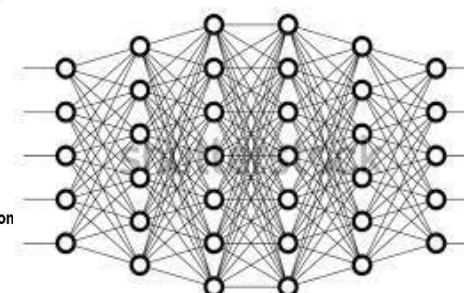
Bidirectional communication contributes to strength two mechanisms related to a community within its environment that are:

- the information-decision mechanism → Sustainability



- the action-reaction mechanism

ICT 4 DEV



www.shutterstock.com - 502552039



Osservatorio Parigi

MISSION

The Paris Observatory wants to be a "Hub" within HubZine Italia to follow, monitor and comment on the UNFCCC climate negotiations and their effects on the Italian and European context with an informative but technical and competent approach.

VISION

The Observatory will collect articles, events, media and commentary and in-depth information on the negotiating decisions taken during the COPs and intermediate events.

Topics will be developed, articles written, reports developed and knowledge produced in order to better support the dissemination, dissemination and advocacy of the United Nations Framework Convention on Climate Change and the Paris Agreement

<http://osservatorioparigi.hubzineitalia.com/>



ACTIVITIES

- UNFCCC VLOG REPORT : reporting activities on the ground during the negotiations
- Writing articles and commentaries
- Report drafting
- Training and dissemination activities

osservatorio.parigi@hubzineitalia.com

Osservatorio Parigi - People



Domenico Vito, PhD

EuroPM, Observer, COP



Rosa Manzo

Associate Professor
University of South Eastern
Norway, Oslo



Giacomo di Capua

Researcher,
Environmental Sustainability
and Health
University of Technology Dublin



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Observer, COP
Student, Mathematics
University of Milan



Jenny Salazar Zapata

Observer, COP
PhD candidate in "Banking and Finance"
Department of Management –
Sapienza University of Rome.



Irene Abra

Observer, COP
Marketing and global markets student
at the University of Milan Bicocca



Injy Johnstone

Observer, COP
Master in Environmental Policy
SciencesPo School
of International Affairs, Paris



Giovanni Maria Dettori

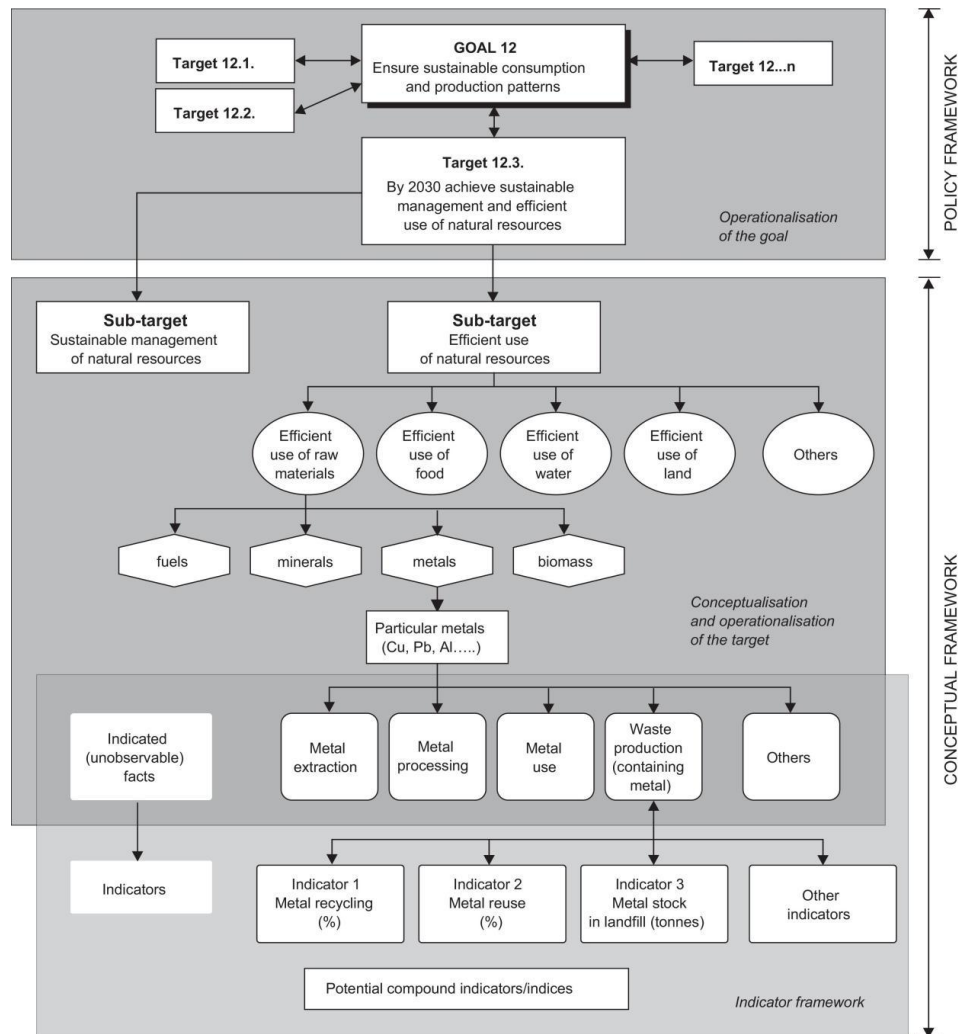
Master of Science
International Relationship

Cosa sono gli obiettivi di sviluppo sostenibile?



Il framework degli SDGs

Il paradosso dell'IA



Attualmente, il quadro degli Obiettivi di Sviluppo Sostenibile è composto da **17 obiettivi, 117 target e 241 indicatori** e **questa struttura costituisce la spina dorsale per monitorare i progressi degli Obiettivi di Sviluppo Sostenibile** a livello locale, nazionale, regionale e globale.

Oggi, il Forum Politico di Alto Livello sullo Sviluppo Sostenibile (HSFS) annuale funge da piattaforma centrale delle Nazioni Unite per il monitoraggio e la revisione degli Obiettivi di Sviluppo Sostenibile.

Un solido quadro di indicatori trasforma gli Obiettivi di Sviluppo Sostenibile e i loro target in uno strumento di gestione e ogni 4 mesi la Commissione Statistica delle Nazioni Unite aggiorna questo insieme di indicatori.

Misurabilità della Sostenibilità

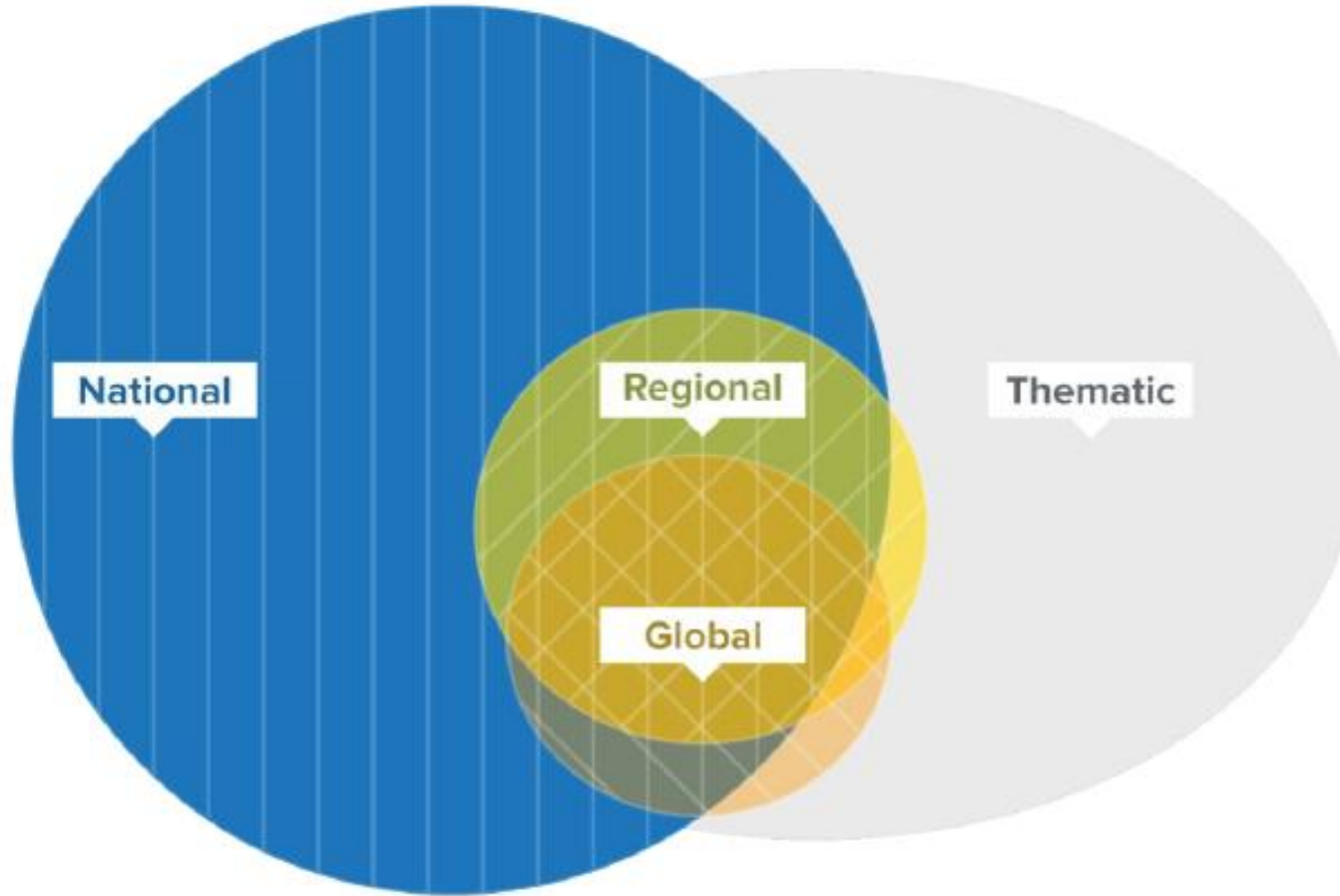
SDG come parte di un'infrastruttura statistica

Indicators as part of the statistical infrastructure



DATA BEHIND INDICATORS

Per valutare la reale conformità degli indicatori e renderli affidabili, ogni 4 mesi la **Commissione statistica delle Nazioni Unite** aggiorna e perfeziona l'insieme degli indicatori degli **Obiettivi di Sviluppo Sostenibile** in collaborazione con il *custodian*



In tale contesto, gli Obiettivi di Sviluppo Sostenibile sono diventati una questione tecnica importante, in cui la misurazione e il monitoraggio dell'impatto degli **Obiettivi di Sviluppo Sostenibile** svolgono un ruolo fondamentale. Gli indicatori possono anche monitorare azioni, investimenti e politiche.

Diversi livelli di monitoraggio degli SDG:

Nazionale, prerogativa di ciascun governo nazionale. Globale, basato su una serie di indicatori di monitoraggio globali che seguono uno standard armonizzato per forum politici di alto livello.

Regionale, fornisce una piattaforma per la condivisione delle conoscenze, la revisione tra pari e l'apprendimento reciproco tra le regioni.

Tematici: comprendono indicatori speciali che possono includere input e matrici di processo utili a integrare gli altri set.

Le 5P dello sviluppo

Il paradosso dell'IA



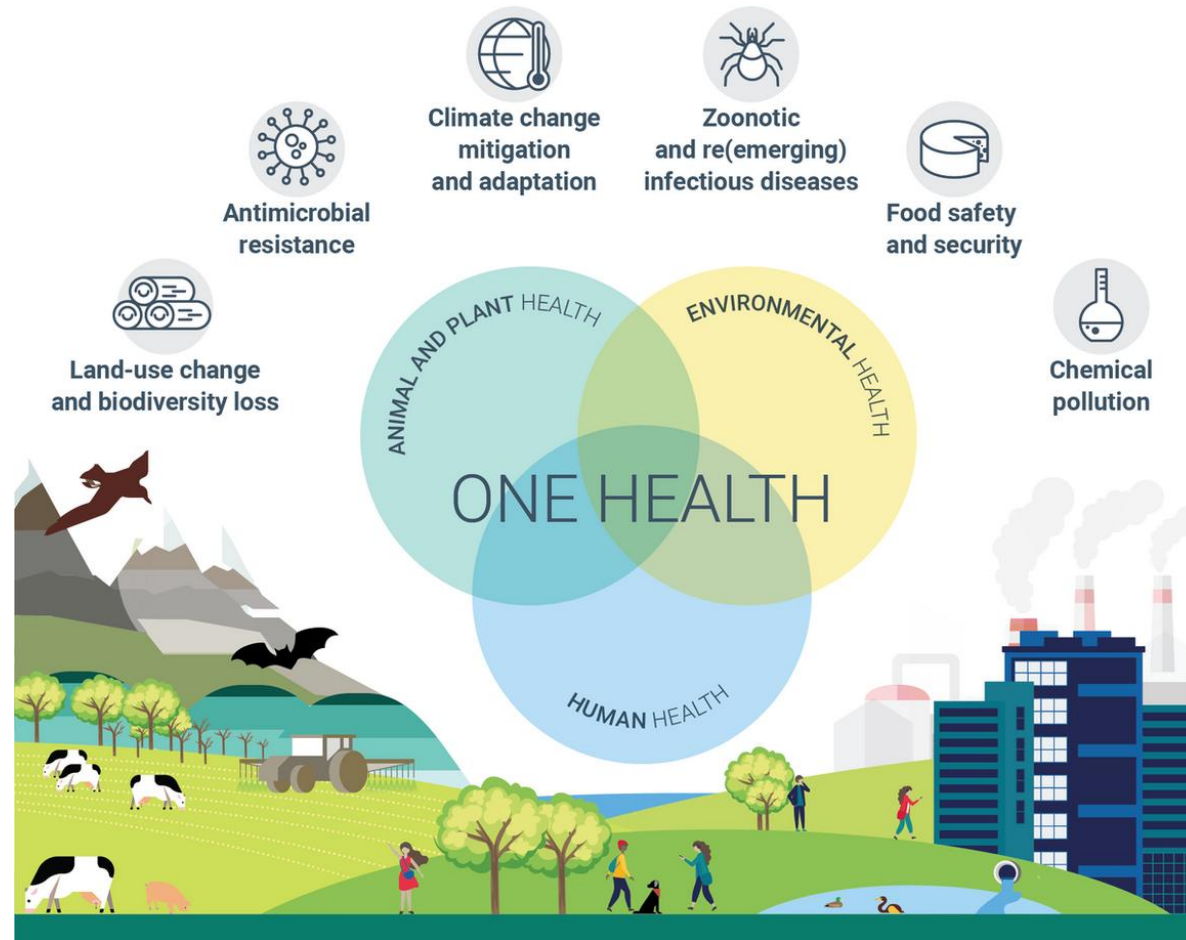
Gli Obiettivi di Sviluppo

Sostenibile sono stati redatti dalle nazioni per le nazioni, ma vogliono raggiungere la società civile, gli imprenditori, le organizzazioni non governative (ONG) e gli attori pubblici, coinvolgendoli nel raggiungimento di pace, prosperità, partenariato e giustizia per tutti.

I 17 Obiettivi di Sviluppo

Sostenibile possono essere infatti classificati anche secondo il modello delle cinque "P" per una migliore valutazione: persone, pianeta, prosperità, partenariato e pace.

L'approccio One-Health



One Health è un approccio multisettoriale che mira a bilanciare e ottimizzare la salute di persone, animali, piante e del loro ambiente condiviso, riconoscendone l'interconnessione.

Promuovendo azioni congiunte, One Health riunisce professionisti di diverse discipline per affrontare in modo integrato le complesse minacce per la salute.

Dal 2021, l'**Organizzazione delle Nazioni Unite per l'Alimentazione e l'Agricoltura (FAO)**, l'**Organizzazione Mondiale per la Salute Animale (OIE)**, il Programma delle Nazioni Unite per l'Ambiente (UNEP) e l'Organizzazione Mondiale della Sanità (OMS) hanno accolto con favore la nuova definizione operativa di **One Health** elaborata dal loro comitato consultivo, il **One Health High Level Expert Panel (OHHLEP)**.

The One Sustainable Health



FOUNDATION

One
**Sustainable
Health**

For all

Under the aegis of



INSTITUT
PASTEUR

The One Digital Health

Save

Email

> J Med Internet Res. 2021 Feb 5;23(2):e22189. doi: 10.2196/22189.

One Digital Health: A Unified Framework for Future Health Ecosystems

Arriel Benis ^{1 2}, Oscar Tamburis ³, Catherine Chronaki ⁴, Anne Moen ⁵

Affiliations + expand

PMID: 33492240 PMCID: PMC7886486 DOI: 10.2196/22189

Abstract

One Digital Health is a proposed unified structure. The conceptual framework of the One Digital Health Steering Wheel is built around two keys (ie, One Health and digital health), three perspectives (ie, individual health and well-being, population and society, and ecosystem), and five dimensions (ie, citizens' engagement, education, environment, human and veterinary health care, and Healthcare

One Digital Health è una struttura unificata proposta.

Il quadro concettuale del One Digital Health Steering Wheel si basa su due elementi chiave (One Health e salute digitale), tre prospettive (salute e benessere individuale, popolazione e società, ecosistema) e cinque dimensioni (coinvolgimento dei cittadini, istruzione, ambiente, assistenza sanitaria umana e veterinaria e Industria Sanitaria 4.0).

One Digital Health mira a trasformare digitalmente i futuri ecosistemi sanitari,

<https://pubmed.ncbi.nlm.nih.gov/33492240/>

The One Sustainable Health



Under the aegis of



AI and SDGs

What is the #AI4ClimateAction Initiative?

The #AI4ClimateAction Initiative was established by the Technology Mechanism in June 2023 to explore the role of artificial intelligence (AI) as a powerful technological tool for advancing and scaling up transformative climate solutions for mitigation and adaptation action in developing countries with a focus on least developed countries (LDCs) and small island developing States (SIDS).



AI and SDGs

Il paradosso dell'IA



AI4SIDS
Letetia Addison



MICHAEL: GLOBAL
DISASTER MONITORING
AND ALERT SYSTEM
Zainab Akhtar



RAICE: AI DRIVEN
PRECISION IRRIGATION
FOR SUSTAINABLE RICE
FARMING IN NEPAL
Asbina Baral



ACBA ENERGY
Nair de Sousa

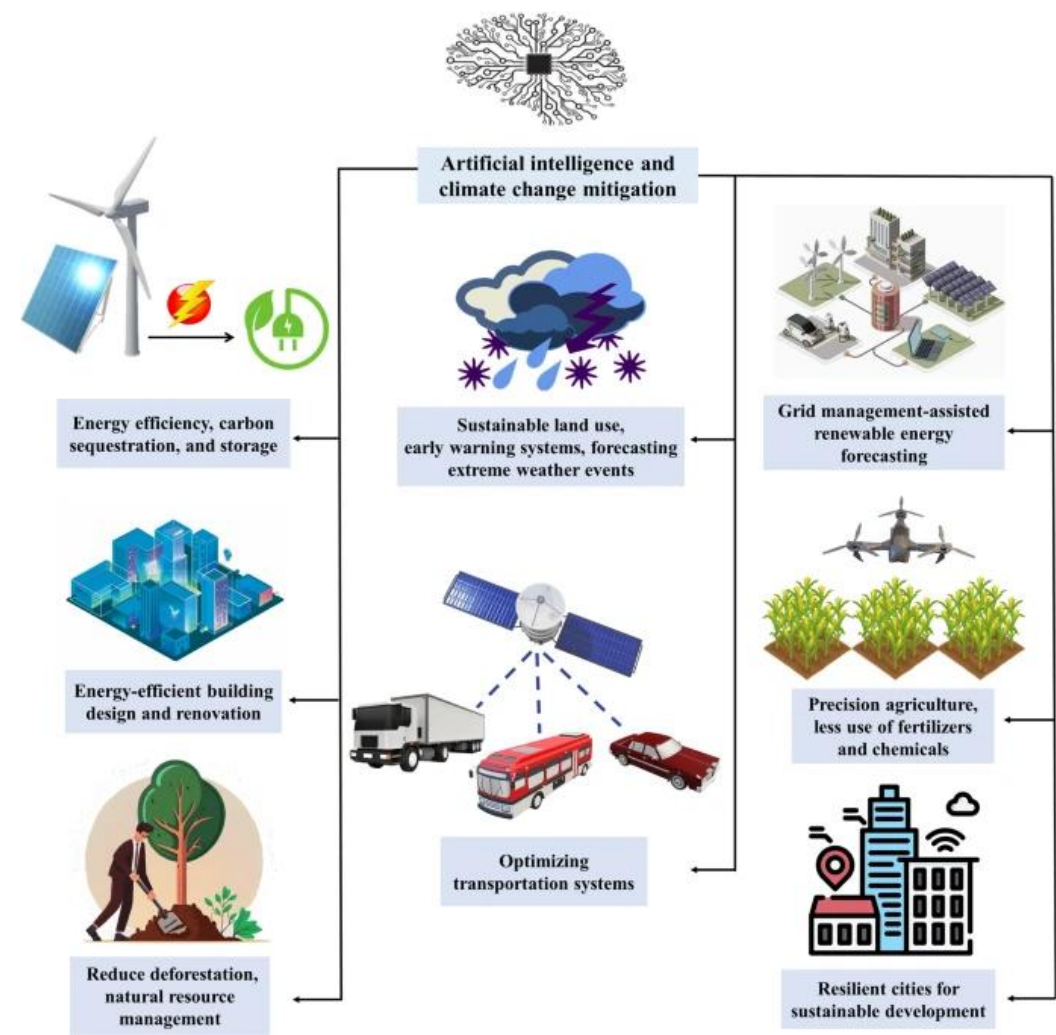


CLIMATE SMART
IRRIGATOR (SMART
WATER-ENERGY -FOOD
NEXUS EFFICIENCY
IRRIGATION)
Edmond Ng'walago



KLIMALERT FOR A
CLIMATE RESILIENT
SURINAME
Nuravni Sallons

AI and SDGs



Home > Environmental Chemistry Letters > Article

Artificial intelligence-based solutions for climate change: a review

Review Article | Open access | Published: 13 June 2023

Volume 21, pages 2525–2557, (2023) Cite this article

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Environmental Chemistry Letters

Aims and scope →

Submit manuscript →

Lin Chen, Zhonghao Chen, Yubing Zhang, Yunfei Liu, Ahmed I. Osman, Mohamed Farghali, Jianmin Hua, Ahmed Al-Fatesh, Ikko Ihara, David W. Rooney & Pow-Seng Yap

59k Accesses 120 Citations 59 Altmetric 9 Mentions Explore all metrics →

Use our pre-submission checklist →

Avoid common mistakes on your manuscript.

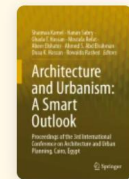


Home > Architecture and Urbanism: A Smart Outlook > Conference paper

Artificial Intelligence Shaping Sustainable Cities for Climate Change Mitigation: A Review of Literature

Conference paper | First Online: 03 November 2020

pp 483–495 | Cite this conference paper



Architecture and Urbanism: A Smart Outlook

Ahmed K. Abd El-Hameed

Access this chapter

AI for Sustainable Development Goals (AI4SDGs) Think Tank

A global collection of AI projects and proposals that impacts UN Sustainable Development Goals, both positively and negatively. The goal is to promote the positive use of AI for Sustainable Development, and to investigate on the negative impact of AI on Sustainable Development. Detailed evaluation on each project is provided based on our rating scheme. You are welcome to share your project to the world and get evaluated by submitting your project or proposal information here.

[BROWSE BY GOALS](#)[SHARE YOUR PROJECT](#)

<https://ai-for-sdgs.academy/>

Green Digital Action

AI & Digital in Action for NDCs: From Data to Impact

Side event at Bonn Climate Change Conference (SB 64)
17 June 2026, 16:30 to 17:45



 Simon Stiell Executive Secretary UNFCCC	 Ingrid-Gabriela Hoven Managing Director GIZ	 Tomas Lamanaukas Deputy Secretary General ITU	 Pedro Ivo Ferraz Chair TEC
 James Grabert Division Director UNFCCC	 David Gonahasa Science, Technology and Innovation Secretariat Uganda	 Mireia Vilaplana Sustainability Director NTT Data	 Luis Neves CEO GeSI

In partnership with:  United Nations Climate Change  giz

→ ITU.int/green-digital



Soren Gigler, Bolivia

Confronting AI Poverty in the Digital Age



Bjorn-Soren Gigler, PhD 

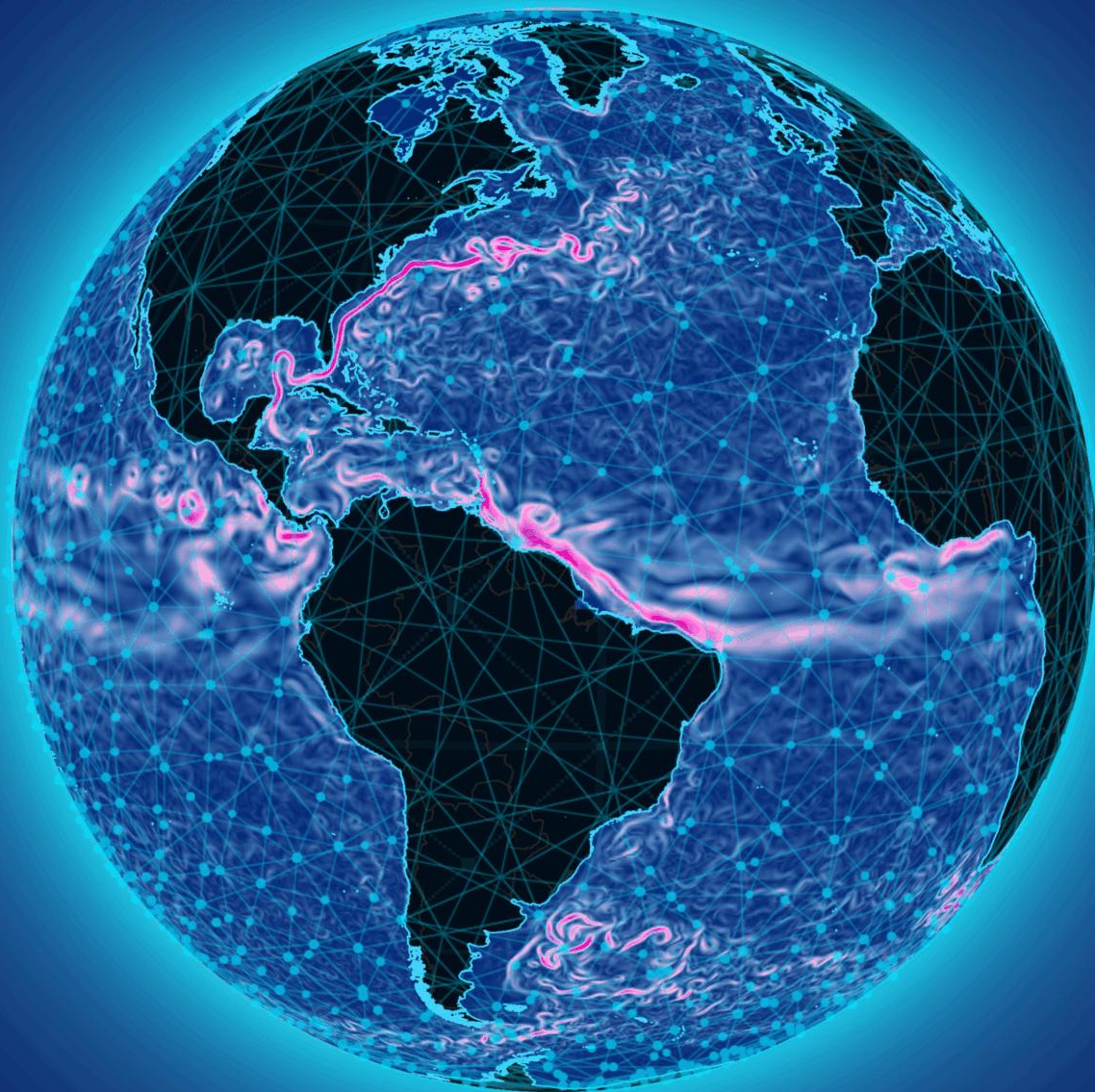
Senior Digital and Green Transformation Specialist, Adjunct Professor,
Georgetown University-personal views



13 giugno 2026

AI for Ocean Forecasting

GLONET dataset



Efficiency

10-day forecasts generated in seconds compared to hours for GLO12



Cloud Optimization

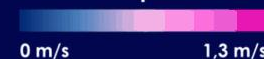
Reduced computational & storage costs



Accuracy

+10 to 15% accuracy for currents compared to GLO12

Sea Water Velocity
on 13 April 2025



Developed by Mercator Ocean International and available on the European Digital Twin Ocean platform, the GLONET dataset uses AI to deliver 10-day ocean forecasts.

SAVE THE DATE

**1st Artificial Intelligence
for Copernicus Workshop**

Date: 5 – 7 November 2019

Location: ECMWF, Reading, UK

More information coming soon

1ST ARTIFICIAL INTELLIGENCE FOR COPERNICUS WORKSHOP

Join us to discuss and help define recommendations for further development of AI in the context of Copernicus and its downstream services.

Discussions will focus on:

- Data Mining
- Data Fusion
- Machine Learning

Sousse, Tunisia
1,080 images

Exploring the project

HDPE, LDPE, PA, PET, PP, PS, and Other.
Hand Drawn V8, Sam, and Cellpose

Data processing and visualization for boundary detection model stages

Step 1: Image



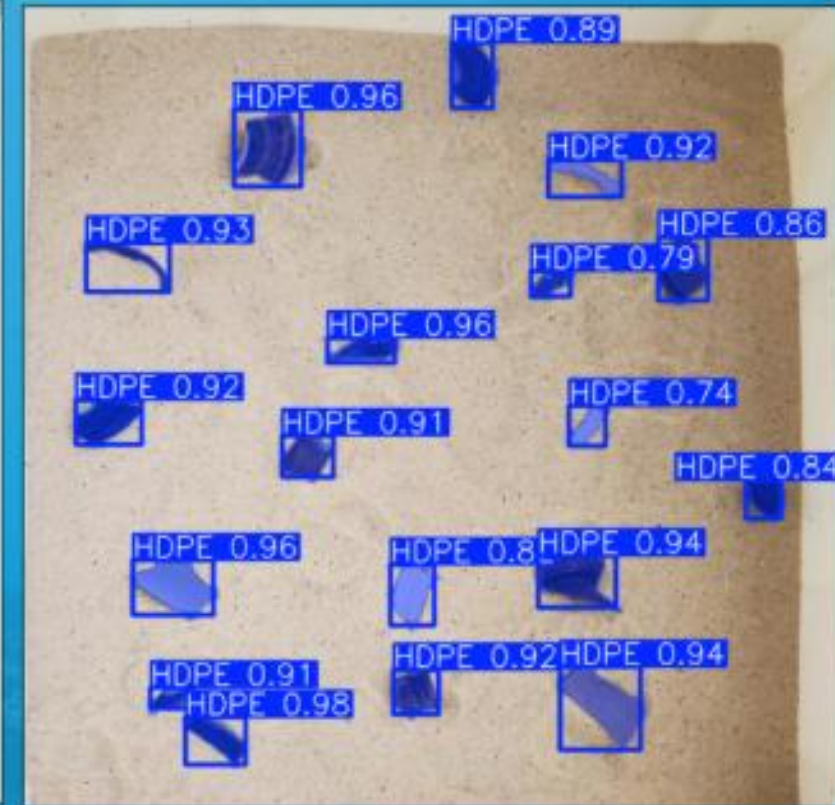
Sample image

Step 2: Identify



Identify the presence of plastics.
Using Edge detection techniques,
Polygon Segmentation models

Step 3: Classify



Classify (HDPE).
Using computer vision models
(YOLO)

Study Objectives

AI-ε: An open-source, offline-friendly prototype combining **YOLOv8** and **LangChain**.

- Detect diseases in Cashew, Cassava, Tomato, Maize
- Deliver safe, farmer-friendly prevention & treatment advice
- Empower smallholder farmers within a One Health framework



Methodology- Technical Details

01

Detection (YOLOv8m)

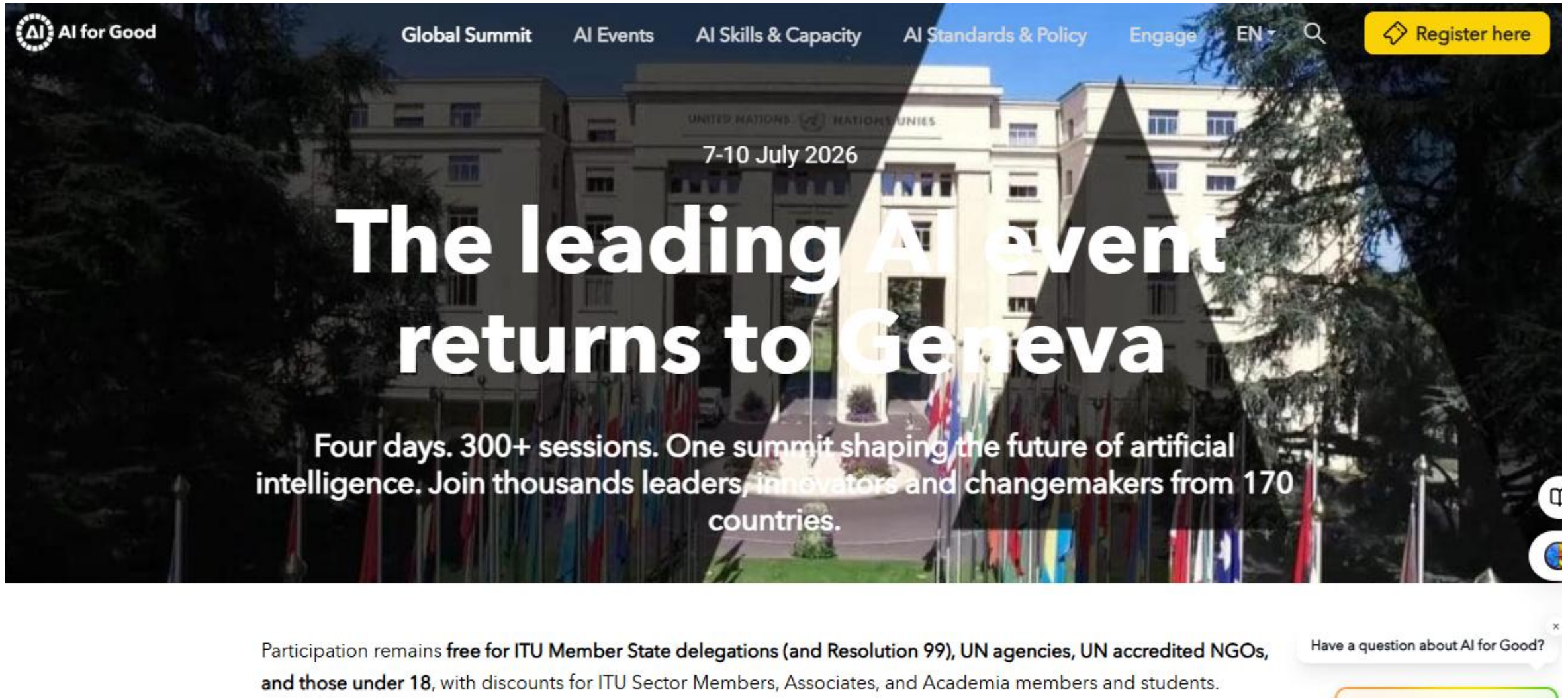
- **13,519 images** → 4 crops (cashew, cassava, maize, tomato) → 20 disease classes
 - Data split + augmentation (**~32k training samples**)
-

02

Advisory (LangChain RAG)

- Built from manuals + scientific reports
- Retrieval system delivers farmer-friendly prevention & treatment advice
- Non-chemical first; chemical only as last resort with PPE reminders

Together, these two phases create a **lightweight, offline-friendly tool for smallholder farmers.**

A promotional banner for the AI for Good Global Summit. The background is a photograph of the United Nations building in Geneva, with many national flags in the foreground. The text is overlaid on this image. At the top left is the 'AI for Good' logo. The top navigation bar includes links for 'Global Summit', 'AI Events', 'AI Skills & Capacity', 'AI Standards & Policy', 'Engage', and 'EN' with a search icon. A yellow 'Register here' button is at the top right. The main headline is 'The leading AI event returns to Geneva' in large white font. Below it, a sub-headline reads '7-10 July 2026'. Further down, another line of text says 'Four days. 300+ sessions. One summit shaping the future of artificial intelligence. Join thousands leaders, innovators and changemakers from 170 countries.' At the bottom, a paragraph states: 'Participation remains free for ITU Member State delegations (and Resolution 99), UN agencies, UN accredited NGOs, and those under 18, with discounts for ITU Sector Members, Associates, and Academia members and students.' A small chat bubble on the right says 'Have a question about AI for Good?'.

AI for Good

Global Summit AI Events AI Skills & Capacity AI Standards & Policy Engage EN

Register here

7-10 July 2026

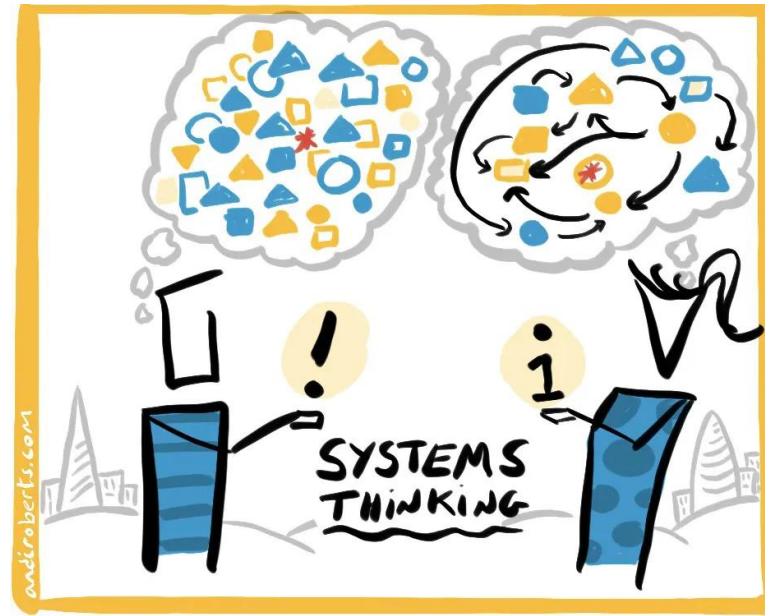
The leading AI event returns to Geneva

Four days. 300+ sessions. One summit shaping the future of artificial intelligence. Join thousands leaders, innovators and changemakers from 170 countries.

Participation remains **free** for ITU Member State delegations (and Resolution 99), UN agencies, UN accredited NGOs, and those under 18, with discounts for ITU Sector Members, Associates, and Academia members and students.

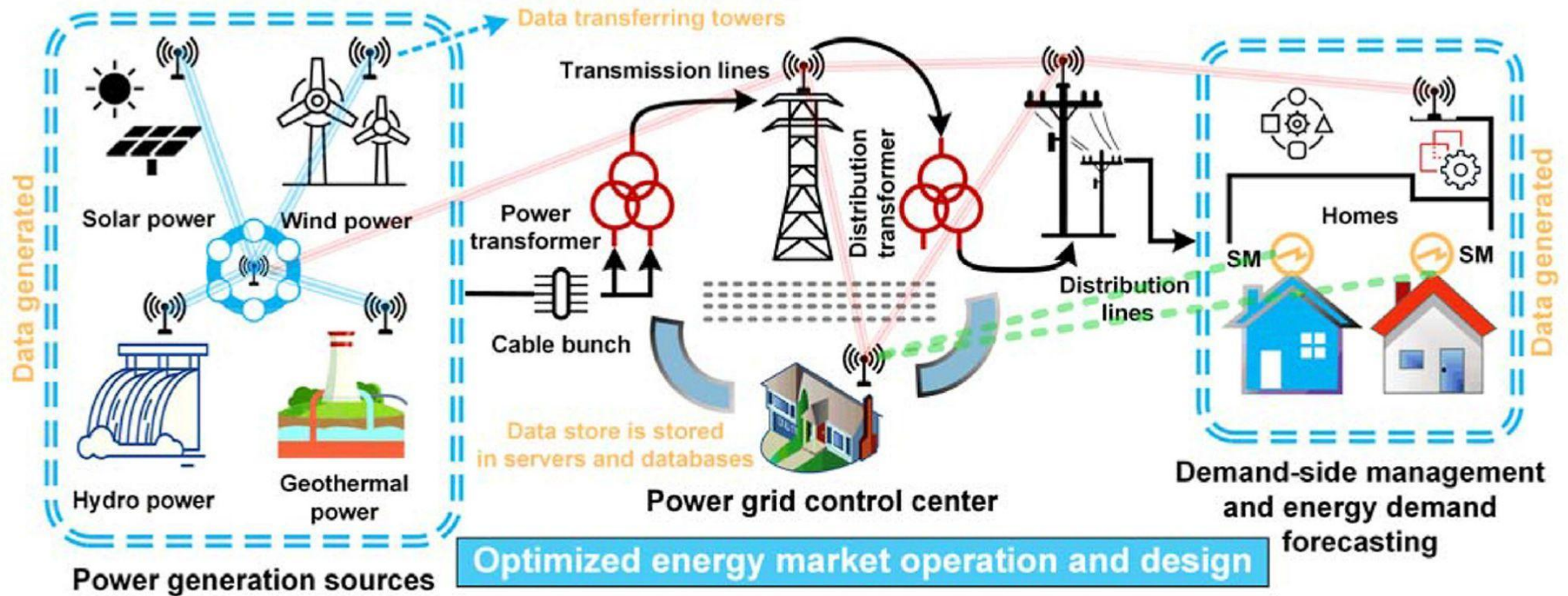
Have a question about AI for Good?

Rivoluzione digitale e transizione ecologica sono competitive o sinergiche?



AI and Renewable Energy

Big data and AI applications.



AUGUST 13, 2025

Even without hurricanes, customers in Puerto Rico lose about 27 hours of power per year

Puerto Rico average duration of annual electricity interruptions (2021–2024)
number of hours per customer



Data source: U.S. Energy Information Administration, *Annual Electric Power Industry Report*

Data values: Reliability—2024 Data Early Release



I recently sat down with Robert Cross—founder of Cross Consulting and principal at Outfit—to explore what may be the real bottlenecks: financing, storytelling, regulation, and the industry’s tendency to work in silos rather than together.

Robert argues that distributed energy resources have become an “irresistible force” colliding with the “immovable object” of the traditional utility business model. But instead of seeing distributed energy as a threat, he believes utilities increasingly have an opportunity to embrace it as a relief valve—one that can help meet AI-driven electricity demand, strengthen resilience, and reduce the need for costly infrastructure expansion.



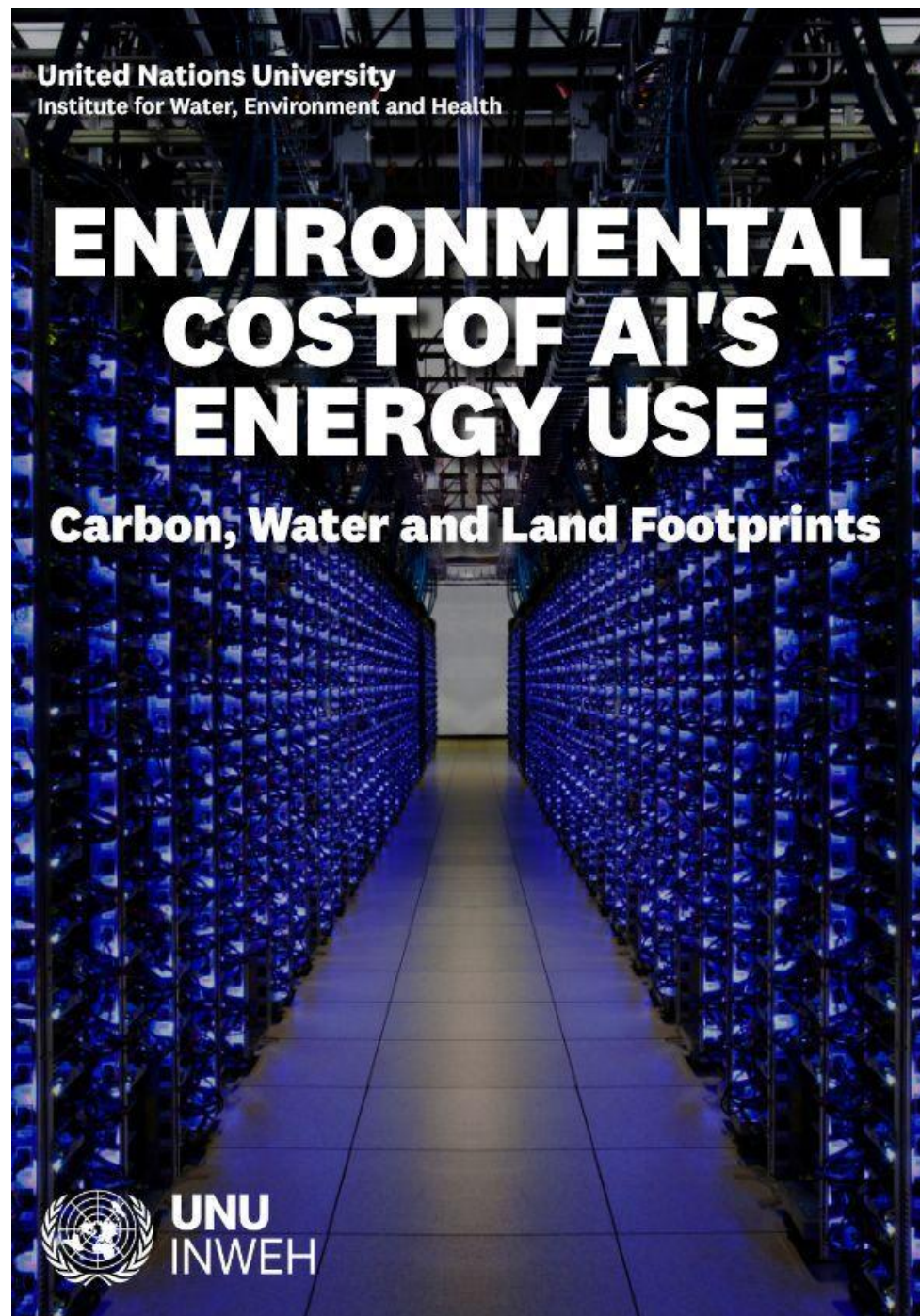
Il **Global Digital Compact** è un quadro completo per la governance globale della tecnologia digitale e dell'intelligenza artificiale.

Vent'anni dopo il **Vertice Mondiale sulla Società dell'Informazione**, traccia una tabella di marcia per la cooperazione digitale globale per sfruttare l'immenso potenziale della tecnologia digitale e colmare il divario digitale.

Il 22 settembre 2024, i leader mondiali si sono riuniti a New York per il Summit del Futuro, dove hanno adottato un Patto per il **Futuro che include un Global Digital Compact**

Il Patto riconosce il contributo fondamentale del settore privato, delle comunità tecniche, dei ricercatori e della società civile alla cooperazione digitale. Invita tutte le parti interessate a impegnarsi per realizzare un futuro digitale aperto, sicuro e protetto per tutti.

- **Colmare tutti i divari digitali** e realizzare un'economia digitale inclusiva
- **Connettere tutte le persone**, le scuole e gli ospedali a Internet
- **Rendere le tecnologie digitali** più accessibili e accessibili a tutti, anche in diverse lingue e formati
- **Aumentare gli investimenti** in beni pubblici digitali e infrastrutture pubbliche digitali
- **Sostenere donne e giovani innovatori e piccole e medie imprese**
- **Costruire uno spazio digitale inclusivo, aperto, sicuro e protetto**
- **Rafforzare i quadri giuridici e politici per proteggere i minori online**
- **Garantire che Internet** rimanga aperto, globale, stabile e sicuro
- **Promuovere e facilitare l'accesso** a informazioni indipendenti, basate sui fatti e tempestive per contrastare la disinformazione e la cattiva informazione
- **Rafforzare la governance internazionale dei dati e governare l'IA** per l'umanità
- **Sostenere lo sviluppo di quadri nazionali** interoperabili di governance dei dati
- **Istituire un gruppo scientifico internazionale sull'IA** e un dialogo politico globale sull'IA
- **Sviluppare partnership per lo sviluppo di capacità in materia di IA** e valutare le opzioni per un Fondo globale sull'IA





**Magnifica Humanitas. Encyclical
Letter for the custody of the
human person in the time of
artificial intelligence**

**MAGNIFICA
HUMANITAS**



Leone PP. XIV

A crowd of people is shown with digital overlays representing facial recognition and data analysis. The overlays include circular patterns, crosshairs, and labels like "On File", "Profile Analysis", and "Target".

THANKS FOR THE ATTENTION

“

A world of AI haves and have-nots would be a world of perpetual instability. **We must never allow AI to stand for “advancing inequality”.** Only by preventing the emergence of fragmented AI spheres can we build a world where technology serves all humanity.

”

António Guterres, Secretary-General of the United Nations