

Project RAISE

A Responsible Al Strategy for the Environment

IEEE Planet Positive 2030 Workshop, The Hague

Multinational Initiative

25 members working together to advance the responsible development and use of AI, grounded in human rights, inclusion, diversity, innovation, and economic growth.



2.8 billion people



AUSTRALIA KOREA

BELGIUM MEXICO

BRAZIL NEW ZEALAND

CANADA NETHERLANDS

CZECH POLAND

REPUBLIC SINGAPORE

DENMARK SLOVENIA

FRANCE SPAIN

GERMANY SWEDEN

INDIA UNITED KINGDOM

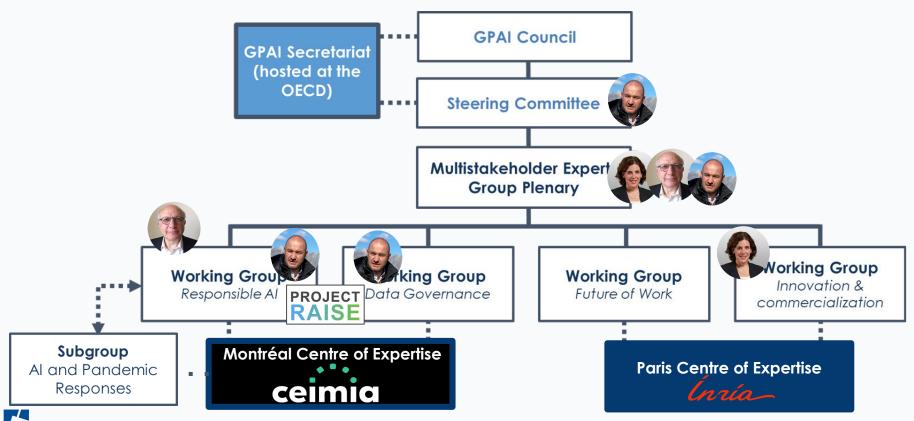
IRELAND UNITED STATES OF

ISRAEL AMERICA

ITALY EUROPEAN UNION

JAPAN

GPAI STRUCTURE



Project Co-leads



Raja Chatila Sorbonne



Lee TiedrichDuke University



Nicolas Mialhe
The Future Society

Project Managers



Johannes Kirnberger
CEIMIA & OECD



Stephanie King
CEIMIA



Arnaud Quenneville-L.
CEIMIA

Project Steering Group Invited Experts

PROJECT RAISE

Overall objective

"Develop and operationalize a global **responsible Al adoption strategy** for climate action and biodiversity"

Long-term objectives

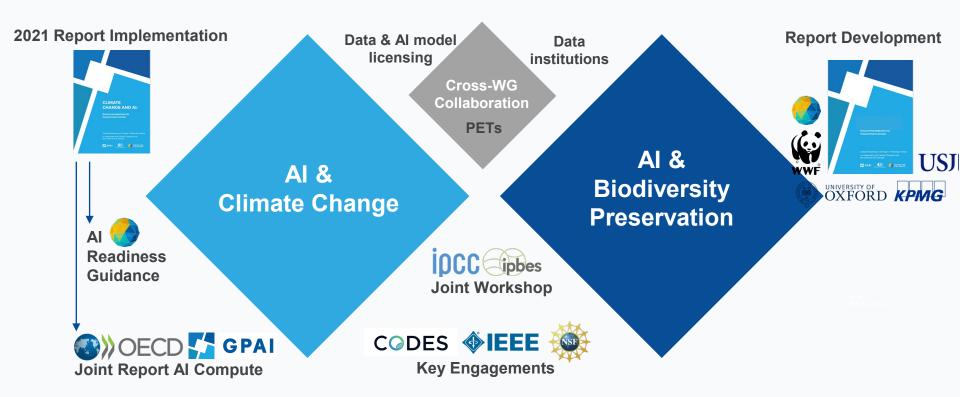
Implement strategic roadmap and recommendations to **inform policy** and **high-impact use cases**

Develop and **impact and risk assessment framework harnessing** Al for climate action and biodiversity preservation responsibly

Work with **institutional partners** to **anchor** Al for environmental action at COP, member states, and other international bodies



PROJECT 2022 Activities





































Existing collaborations

2021 Al & Climate Report summary see: https://gpai.ai/projects/responsible-ai/environment/climate-change-and-

ai.pdf

Al as a tool for climate action





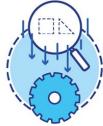
Data & digital infrastructure

Data, simulation environments, testbeds, libraries, computational hardware



Research & innovation funding

Interdisciplinary & cross-sectoral work guided by climate impact



Deployment & systems integration

Policy design & evaluation, market design, business models



Reducing Al's negative impacts on the climate

Application and compute-related impacts





Responsible Al



Capacity building



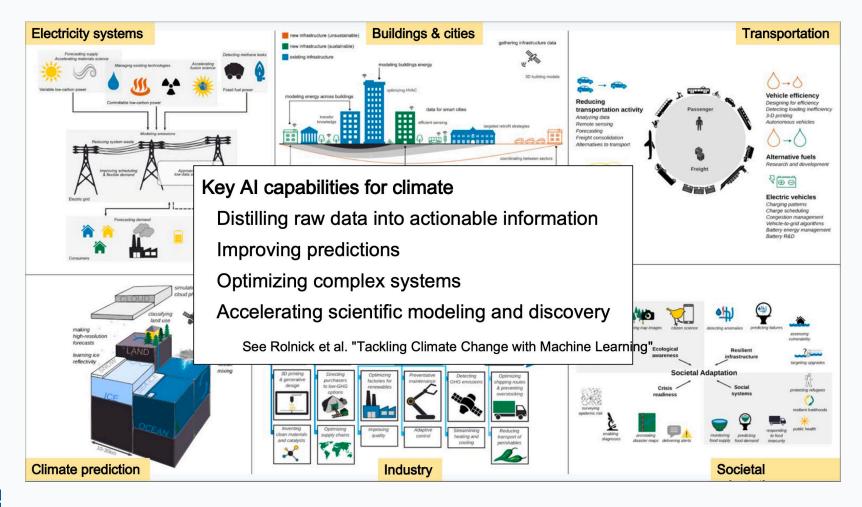
International collaboration



Impact assessment

Implementation, evaluation, and governance capabilities









Deployment and systems integration

Accelerate the pathway from research → minimum-viable-product → testing/deployment → scaling



Case study:

National Grid ESO (UK) has used AI to double the accuracy of its forecasts of electricity demand, enabling better integration of renewables.





International collaboration

Stronger international cooperation on Al-for-climate applications will be important in unlocking Al's full potential for addressing climate challenges.

Recommendations include:

- Support knowledge sharing on Al-for-climate policies and implementation between key stakeholders in different countries.
- Bring together researchers and innovators to address common and cross-border Al-forclimate challenges, and as part of this, pool data and agree on data standards.
- **Develop an international** Al-for-Climate Partnership to support the coordination and delivery of international Al-for-climate work.



WHAT IS A DIGITAL TWIN?

Our planet is a complex system. To better understand how it works, we have created a simulated 'living' replica.

Driven by advanced AI, this computer model is fed by a continuous flow of observations from the physical world.

It allows us to revisit our past, understand our present and predict our future.

PHYSICAL WORLD

Planet Earth













Destination Earth

UNDERSTAND THE PAST, PREDICT THE FUTURE

Fed by real-world observations, these digital twins let us understand what has happened on Earth – and what will happen in the decades ahead.

