

Open Planetary Intelligence Network (OPIN)

Weaving Shared Prosperity through Climate and Technology

A New Era of Cooperation Launching at the Leaders' Summit in Belém

A Moment of Convergence

Humanity stands at a crossroads of accelerating climate impacts and rapid technological disruption. COP30 offers a historic opportunity to merge the digital and climate transitions into a single planetary transformation.

The Paris Agreement is working, but implementation is still too slow for what science and justice demand in a situation of climate urgency. The climate transition is now inexorable – it will redefine economies, reshape societies, and determine the future of development. Whether it deepens inequality or opens new paths for shared prosperity, sustainable development, and the reduction of poverty and inequalities will depend on the choices made today.

Digital technologies, though often concentrated in a few hands and deployed in ways that reinforce asymmetries or even contribute to worsening the climate crisis, hold the power to reverse this logic. If made open and inclusive, they can provide the missing speed and scale to accelerate low-carbon and climate-resilient development worldwide — linking the climate, digital, and development agendas around shared prosperity and justice.

India's G20 Presidency in 2023 demonstrated that well-designed digital public infrastructure (DPI), augmented by artificial intelligence (AI), can enable the use of data for accelerated progress towards the Sustainable Development Goals through inclusive digital transformation, of which the India Stack is a prominent and successful example. Meanwhile, Brazil's PIX system has shown how interoperable digital architectures can deliver financial inclusion and prosperity at scale. Experiences such as these reveal how open and interoperable systems can make technology a true public good – accessible, inclusive, and aligned with human development.

A Planetary Mission for the Digital Age

At the COP30 Leaders' Summit in Belém, Brazil and the Republic of India, in partnership with the United Nations, are launching the Open Planetary Intelligence Network (OPIN) – a global multistakeholder mission to leverage data interoperability for accelerating the deployment of critical technologies that advance climate action and sustainable development.

OPIN seeks to unify the digital and climate transformations into a single planetary agenda, building an open, inclusive, and resilient digital foundation to align innovation

with the Paris Agreement, the Global Digital Compact, and the 2030 Agenda for Sustainable Development. It will serve as a backbone for accelerated climate action – ensuring that data, technology, and scientific progress work in concert to deliver solutions at scale, build trust, and secure climate justice in the decisive years ahead.

In practical terms, OPIN will mobilize digital ecosystems to support the implementation of climate plans connecting them to the resources needed: public and private finance, technology, and capacity-building. Applications that already exist and may be exponentially leveraged through OPIN include real-time data sharing for early warning and disaster response; digital payment systems that reward small farmers for sustainable agricultural practices; and interoperable platforms that enable families to sell the energy they generate through decentralized renewable systems, among innumerable others.

A Digital Stack for Shared Prosperity

At the core of OPIN lies the creation of a Global Digital Public Infrastructure for shared prosperity, which will:

- (i) Enable interoperability of climate data, finance, and policy systems across borders;
- (ii) Function as a foundational backbone enabling future and cross-sectoral digital platforms for diverse applications and use cases across public and private sectors;
- (iii) Establish clear incentive mechanisms—such as data access, recognition, or benefits—within a data governance framework grounded in equity, participation, and inclusion principles while respecting data sovereignty;
- (iv) Support transparency and accountability in the implementation of climate commitments;
- (v) Facilitate access to innovation for developing countries, Indigenous Peoples, and local communities;
- (vi) Link public and private efforts, ensuring technology mobilization serves global public goods;
- (vii) scale-up and accelerate the widespread deployment of finance, technology, and capacity-building.

Founding Partners and Early Collaborators

The initial institutional partners of OPIN include:

- Networks for Humanity (NFH) – an international network of laboratories expanding globally through the Foundation for Interoperability in Digital Economy (FIDE), focused on open and interoperable digital infrastructure;

- Council on Energy, Environment and Water (CEEW) – one of Asia’s leading public policy research institutions, based in India;
- Coalition for Digital Environmental Sustainability (CODES) – a UN-mandated coalition promoting digital sustainability;
- Global Enabling Sustainability Initiative (GeSI) – a cross-sector business association with over 200 members worldwide; and
- Institute for Technology and Society (ITS Rio) – a Brazilian think tank at the intersection of technology, governance, and rights.

These founding partners will help anchor OPIN as a global public good for the digital and climate transitions. The initiative will remain open to the voluntary participation of countries, regions, cities, organizations, and networks wishing to contribute to the interoperable architecture of planetary cooperation.

A New Era of Shared Leadership

The joint launch of OPIN by Brazil and India at the Leaders’ Summit in Belém, in partnership with the United Nations, will symbolize a new era of South–South leadership, where inclusive digital transformation underpins just climate transitions, weaving together humanity’s digital intelligence and planetary resilience into an integrated, sustainable, and prosperous future.