

INSIGHTS FROM THE REPORT
Academia and Research Partners

- **The evidence base is rapidly expanding**, with rich datasets generated across devices, networks, sensors and satellites, spanning sectors such as agriculture, early warning systems, cities, carbon markets and the blue economy.
- Programme pilots are also generating actionable insights, demonstrating clear behavioural responses to incentives. Examples such as **ATEC's "cook-to-earn" model** and **anticipatory cash transfers in Nepal** are creating strong foundations for causal analysis.
- These datasets and pilots provide **new opportunities to link real-world outcomes with digital signals**, enabling more precise measurement of climate interventions across both mitigation and adaptation use cases.
- At the same time, **cross-sector applications are emerging**, where integrated data streams are being used to better understand risk, optimise resource use and improve system-level performance.

WHY THIS MATTERS FOR YOUR SECTOR

There is a growing opportunity to move beyond observation to applied, policy-relevant research, using real-world datasets to generate evidence that directly informs programme design and investment decisions.

By combining digital, environmental and behavioural data, research institutions can play a critical role in validating impact, improving model accuracy and ensuring that climate intelligence systems are both robust and scalable.

ACTION POINTS FOR ACADEMIA AND RESEARCH PARTNERS

1. **Co-design** research with innovators, MNOs and implementers, producing peer-reviewed outputs that are directly linked to policy uptake and real-world application.
2. **Develop** frameworks for data governance, ethics and equity, ensuring that climate intelligence systems are inclusive, trusted and scalable across diverse contexts.
3. **Advance** open, interoperable data architectures that enable secure sharing of satellite, IoT and mobile datasets, supporting cross-sector research and reproducible climate intelligence models.
4. **Establish** joint research platforms and data sandboxes that allow academics, governments and industry partners to test, validate and scale AI models across real-world climate use cases.

GSMA Mobile for Development

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