

Integrating Climate and Nutrition in India

A Comprehensive Assessment of Policy and Programmatic Pathways

Presenter Name

Drishiti Makhijani

Global Alliance For Improved Nutrition, India

Climate change and malnutrition stand as pressing global challenges, each profoundly affecting human health and environmental sustainability

CLIMATE CHANGE

- It is likely that warming will **exceed 1.5°C** during the 21st century
- Projected to result in **250,000** additional premature deaths per year by 2050
- Projected to push **more than 100 million** additional people into extreme poverty by 2030
- **More than 40%** of the world's population is highly vulnerable to climate change



The impact of malnutrition in all its forms is estimated to be **US\$3.5** trillion each year,

and climate change is predicted to cost **US\$3.7** trillion each year.

MALNUTRITION

- As many as **828 million** people are undernourished
- Over **2 billion** people are affected by micronutrient deficiencies
- **676 million** people suffer from obesity
- An underlying cause in **nearly half** of all deaths of children under 5 years of age

Understanding the bi-directional relationship between Nutrition and climate change

EXAMPLES OF CLIMATE IMPACT ON SYSTEMS

1. Reduced aquatic species biodiversity, and altered wild fish stocks. (IPCC, 2022a).
2. Severe water scarcity (IPCC, 2022b).
3. Shocks impede investment in long-term opportunities (WB 2019)
4. Novel illnesses limit health system response capacity (WHO, 2023d)

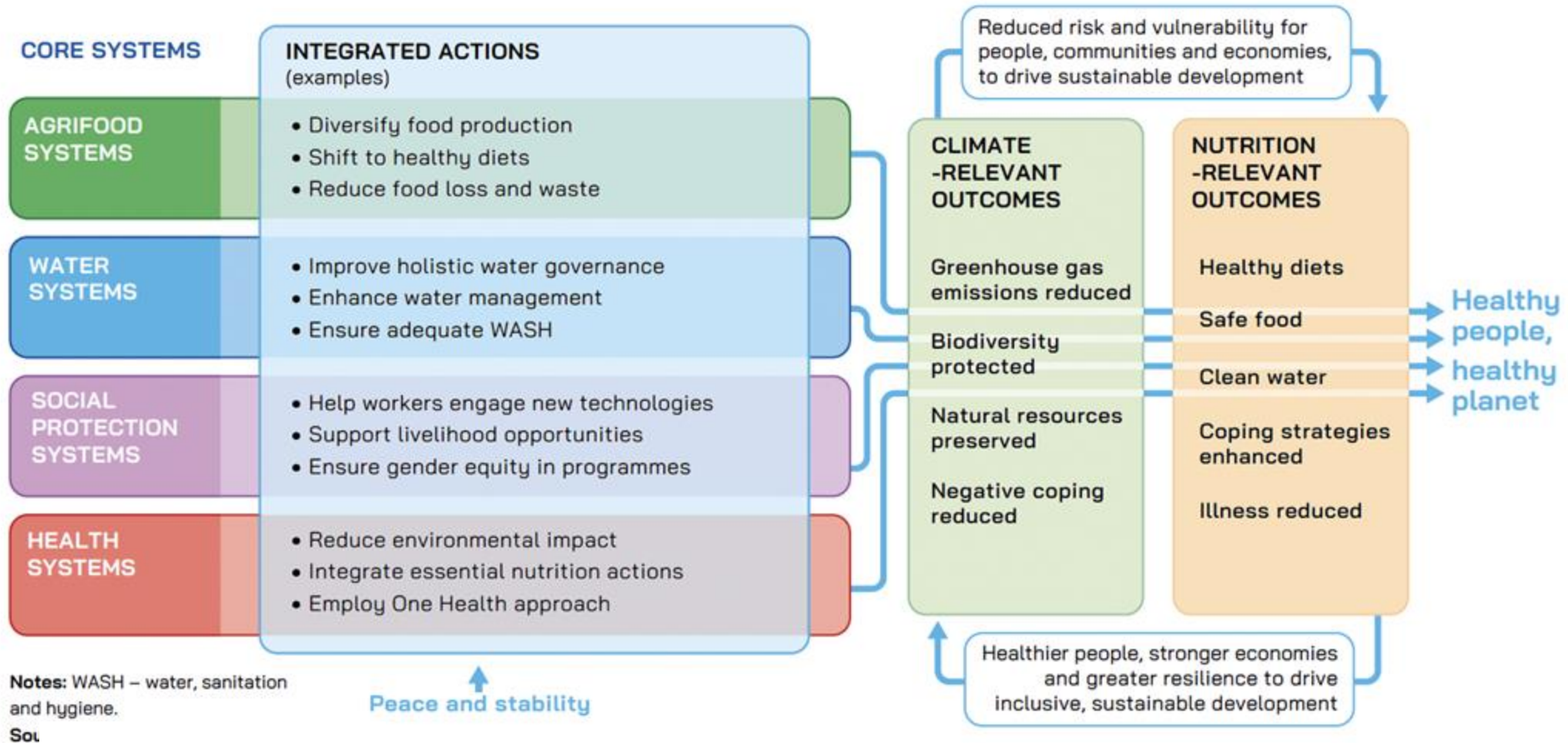
EXAMPLES OF SYSTEMS' IMPACT ON CLIMATE

1. Greenhouse gas emissions. (IPCC, 2022a).
2. Pollution, chemical and hazardous waste. (IPCC, 2022c).
3. Maladaptation practices consuming natural resources. (IPCC, 2022c).
4. Ecosystem destruction. (IPCC, 2022b).



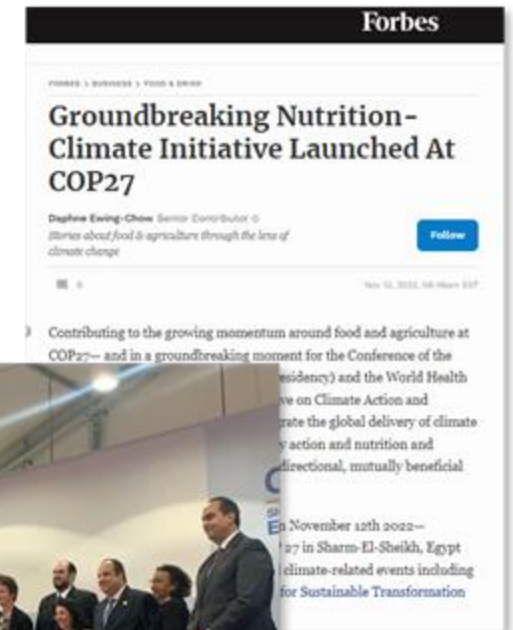
Four Core systems essential to Ensuring Good Nutrition

Looking at Integrated actions to drive sustainable development



Initiative on Climate Action and Nutrition (I-CAN) Overview

- ❖ Initiative on Climate Action and Nutrition (I-CAN) is a multistakeholder (WHO, FAO, UN-Nutrition secretariat, GAIN and SUN), multi-sectoral global flagship program launched by Government of Egypt at the “Adaptation and Agriculture” thematic day at COP27
- ❖ Formally hosted as a climate and nutrition working group under the [Alliance for Transformative Action for Climate and Health \(ATACH\)](#) co-chaired by the Government of Egypt and GAIN



Climate Action and Nutrition: Pathway to Impact



Accelerating Action and Opening Opportunities: A Closer Integration of Climate and Nutrition



Objectives of Initiative on Climate Action and Nutrition (I-CAN)



Articulate a common, compelling narrative around climate and nutrition.



Build a strong alliance across nutrition and climate communities.



Develop and share the evidence base on integrated nutrition and climate action.



Strengthen existing efforts and address gaps.

Focus of the current work

Work In India

What we have done:

- ❖ **A study of the national and subnational policy landscape** to analyse the **current situation in climate and nutrition action**, establishing a baselines for key outcomes
- ❖ The study mapped relevant government-led or -supported policies, programmes, and initiatives under the **thematic areas of climate, nutrition, and agriculture** across all States in India and uncovered the **extent of integration.**

How does this help?

We hope that these numbers can help serve as:

a mirror: where are we?

a beacon: where do we want to be?

a spotlight: who can we learn from?



Pillars of I-CAN baseline assessment



20 Indicators Have Been Analysed

Implementation, Action, and Support	
1	Level of integration of climate and nutrition action in State Action Plans Climate Change
2	Number of states with state-initiated major nutrition related scheme/mission/intervention/policy that includes climate-related actions
3	Number of states with state-initiated major climate related scheme/mission/intervention/policy that includes nutrition-related actions
4	Number of states that include climate-related actions in centrally initiated- ICDS and Mission Saksham Anganwadi & Poshan 2.0 initiatives, at state level
5	Number of states that include climate-related actions in centrally initiated- PM-POSHAN, at state level
6	Number of states with State Disaster Management Plans that includes nutrition-related actions
Capacity Building, Data, & Knowledge Transfer	
1	Number of data and knowledge portals that bring climate and nutrition together

Policy and Strategy	
1	Number of states with initiatives/policies on millets that bring climate and nutrition together
2	Number of states that include climate and nutrition-related actions in centrally initiated- NMSA, NFSM, & RKVY-RAFTAAR initiatives, at state level
3	Number of states with organic farming policy that brings climate and nutrition together
4	Number of states with State Agricultural Plans (SAP) that brings climate and nutrition together
5	Number of states with State Agriculture Infrastructure Development Plans (SAIDP) that brings climate and nutrition together
6	Number of states with state-initiated major agriculture related scheme/mission/intervention/policy that includes both climate and nutrition-related actions
Investments	
1	Value of Green Climate Fund (GCF) initiatives that include nutrition considerations
2	Value of The World Bank loans that are nutrition and climate supporting
3	No. of companies with headquarters in India in WBA that score well on nutrition and sustainability
4	Value of Climate-related Official Development Assistance(ODA) in India's specific projects that are specific to climate and nutrition
5	Value of IFAD initiatives that include climate and nutrition considerations
6	Value of JICA funded projects that include climate and nutrition considerations
7	Value of Asian Development Bank (ADB) funded projects that include climate and nutrition considerations

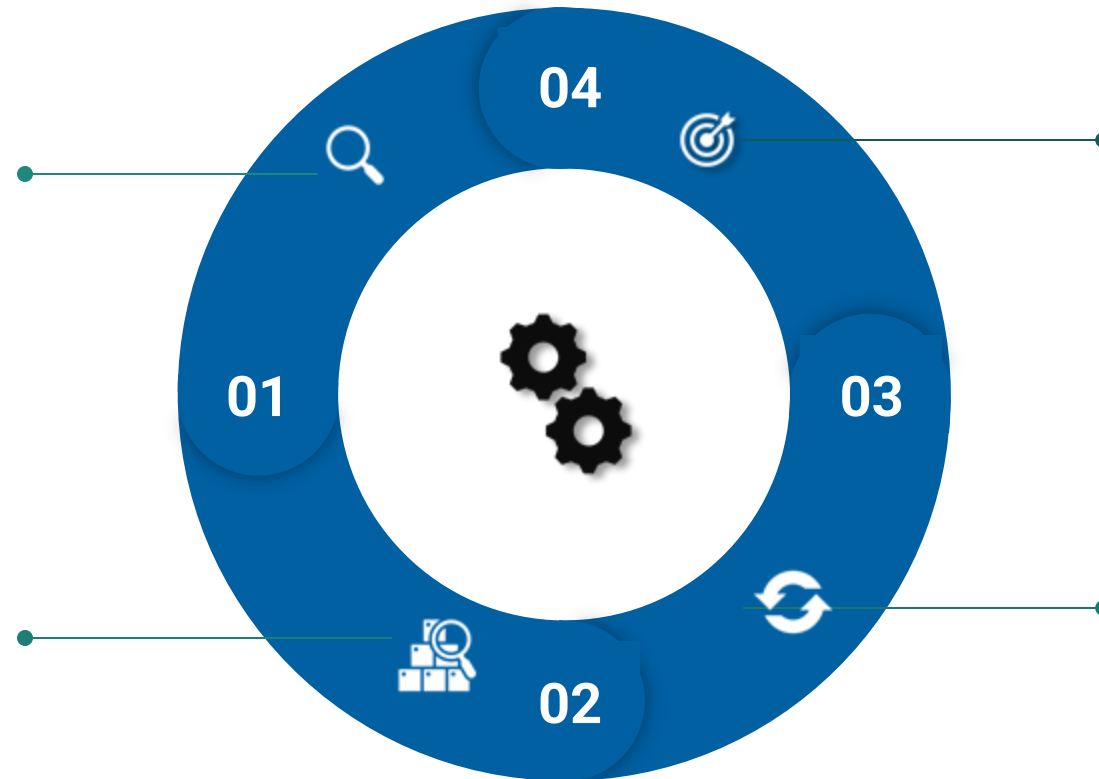
The study methodology

Manual keyword search

1. Nutrition & agriculture keywords in climate documents
2. Nutrition and climate keywords in agriculture documents
3. Climate and agriculture keywords in nutrition documents

Assessment of Relevant sections

Relevant sections were read, analysed, and a classification level (1-4) was assigned .



Final classification

Final classification levels were assigned

Re-review

Review process was undertaken again

* Note: Climate-agriculture integration is assigned for only relevant non-investment indicators

Key Findings

- 1 State Action Plans on Climate Change (SAPCCs) show Intent to Connect Climate and Nutrition**
 - **82%** of the SAPCC's studied **acknowledge the interlinkages between climate and nutrition** .
 - **7%** of the SAPCC's studied **had strategies looking at the interconnectedness of the climate and nutrition**.
- 2 State Disaster Management Plans (SDMP) have Some intention to connect climate & nutrition**
 - **69%** of the analyzed SDMPs **had Mentions of relevant nutrition keywords and concepts** and some content/analysis on linkages between nutrition and climate
 - **8%** of the analyzed SDMPs **have nutrition action as an objective with some initial plans** on measures to be taken to achieve this
- 3 Agricultural Initiatives Emphasize Climate Resilience but Overlook Nutrition**
 - **44.12%** of agricultural initiatives studied aim to promote climate resilience.
 - **8.82%** of these initiatives explicitly link climate resilience with nutrition security goals.
- 4 Organic Farming Policies and Initiatives Offer Potential for Climate and Nutrition Integration**
 - **80%** of organic farming policies include actions to improve climate resilience.
 - **10%** of these policies explicitly integrate climate and nutrition objectives.
- 5 Opportunity to develop a data portal that integrates climate and nutrition**
 - **0 out of 25** assessed data portals were found to contain relevant keywords and concepts on either climate or on nutrition, and even if keywords were found they were not used in the intentional context of integration.

Recommendations



Develop **location and context-specific data infrastructure** and **technological innovations**



Enhance **policy-level integration** by focusing on **aligning India's climate goals with agriculture and nutrition policies** for improved outcomes.



Foster cross-sectoral collaboration by establishing **interdepartmental committees and multi-stakeholder** platforms to **synchronize efforts** and ensure an optimal utilization of **resources**.



Strengthen **Capacity building efforts** at the **institutional and community level** to foresee and respond to emerging challenges and **promote local solutions**.

Limitations / Research Boundary

- Only **Publicly available data on government ministry/department websites, scheme specific websites, government guidelines/documents/publications by the government** have been considered for assessment.
- Documents **formulated/revised between the time period 2016-2023 (for agriculture and climate related documents) and 2018-2023 (for nutrition related documents) have been considered.** However, this is subject to change based on the availability of documents.
- Only those **initiatives that are currently active and are being implemented for at least one year** have been considered.
- we are looking at the **state-level implementation of the central government Flagship policies/schemes**, which is a state subject. Additionally, we will examine **state-initiated schemes, programs, initiatives, and policies** across Nutrition, Agriculture, and Climate.

Thank you