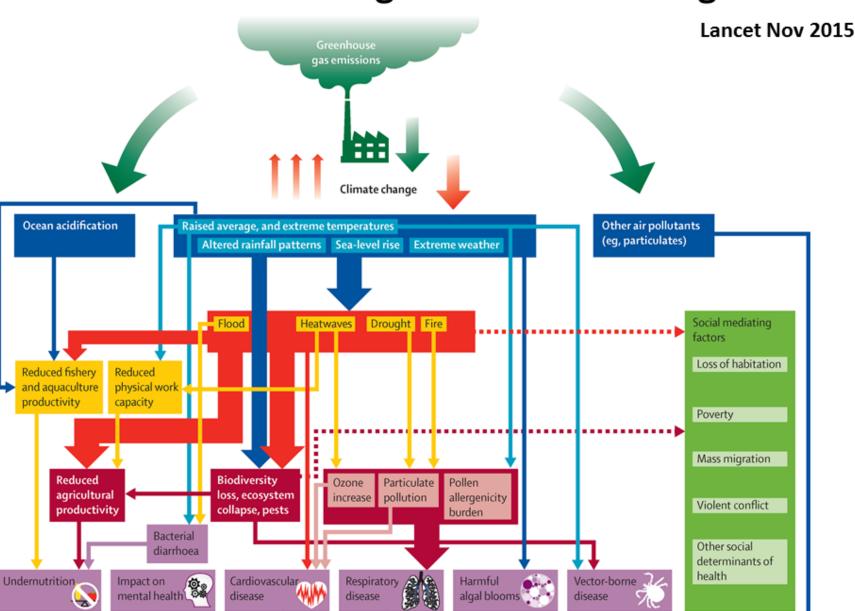


Health effects of global climate change





Health, Climate Change & The Lancet



THE LANCET

Health and climate change



"Tackling climate change could be the greatest global health opportunity of the 21st century."

A Commission by The Lancet

THE LANCET

The Lancet Countdown: Tracking Progress on Health and Climate Change





A Review by The Lancet

THE LANCET

The 2017 report of the Lancet Countdown: from 25 years of inaction to a global transformation for public health





A Review by The Lance

THE LANCET

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The 2018 report of the *Lancet* Countdown on health and climate change



"The nature and scale of the response to climate change will be the determining factor in shaping the health of nations for centuries to come."



A Review by The Lancet

THE LANCET

November, 2019

The 2019 report of the *Lancet* Countdown on health and climate change



"An unprecedented challenge demands an unprecedented response, and it will take the work of the 7.5 billion people currently alive to ensure that the health of a child born today is not defined by a changing climate."



A Review by The Lancet

Lancet Countdown Partners





























































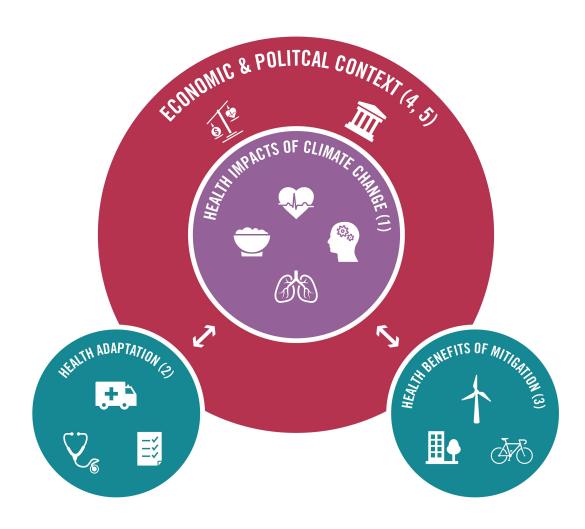












2019 Indicators



Section	Indicator	
Climate Change Impacts,	1.1.1: Vulnerability to extremes of heat	
Exposures and	1.1.2: Health and exposure to warming	
Vulnerability	1.1.3: Exposure of vulnerable populations to heatwaves	
	1.1.4: Change in labour capacity	
	1.2.1: Wildfires	
	1.2.2: Flood and drought	
	1.2.3: Lethality of weather-related disasters	
	1.3: Global health trends in climate-sensitive diseases	
	1.4.1: Climate suitability for infectious disease transmission	
	1.4.2: Vulnerability to mosquito-borne diseases	
	1.5.1: Terrestrial food security and undernutrition	
	1.5.2: Marine food security and undernutrition	
Adaptation, Planning,	2.1.1: National adaptation plans for health	
and Resilience for Health	2.1.2: National assessments of climate change impacts, vulnerability, and adaptation for health	
	2.1.3: City-level climate change risk assessments	
	2.2: Climate information services for health	
	2.3.1: Detection, preparedness and response to health emergencies	
	2.3.2: Air conditioning – benefits and harms	
	2.4: Spending on adaptation for health and health-related activities	

2019 Indicators



Section	Indicator	
Mitigation Actions and	3.1.1: Carbon intensity of the energy system	
Health Co-Benefits	3.1.2: Coal phase-out	
	3.1.3: Zero-carbon emission electricity	
	3.2: Access and use of clean energy	
	3.3.1: Exposure to air pollution in cities	
	3.3.2: Premature mortality from ambient air pollution by sector	
	3.4: Sustainable and healthy transport	
	3.5: Food, agriculture, and health	
	3.6: Mitigation in the healthcare sector	
Economics and Finance	4.1: Economic losses due to climate-related extreme events	
	4.2: Economic costs of air pollution	
	4.3.1: Investment in new coal capacity	
	4.3.2: Investments in zero-carbon energy and energy efficiency	
	4.3.3: Employment in low-carbon and high-carbon industries	
	4.3.4: Funds divested from fossil fuels	
	4.4.1: Fossil fuel subsidies	
	4.4.2: Coverage and strength of carbon pricing	
Public and Political	5.1: Media coverage of health and climate change	
Engagement	5.2: Individual engagement in health and climate change	
	5.3: Engagement in health and climate change in the United Nations General Assembly	
	5.4: Engagement in health and climate change in the corporate sector	

Key Messages of the 2019 Report

"The life of every child born today will be profoundly affected by climate change...

Without accelerated intervention, this new era will come to define the health of people at every stage of their lives."





Key Messages of the 2019 Report

"A second path—which limits the global average temperature rise to "well below 2°C"—is possible, and would transform the health of a child born today for the better, right the way through their life."

Key Messages of the 2019 Report

"An unprecedented challenge demands an unprecedented response.

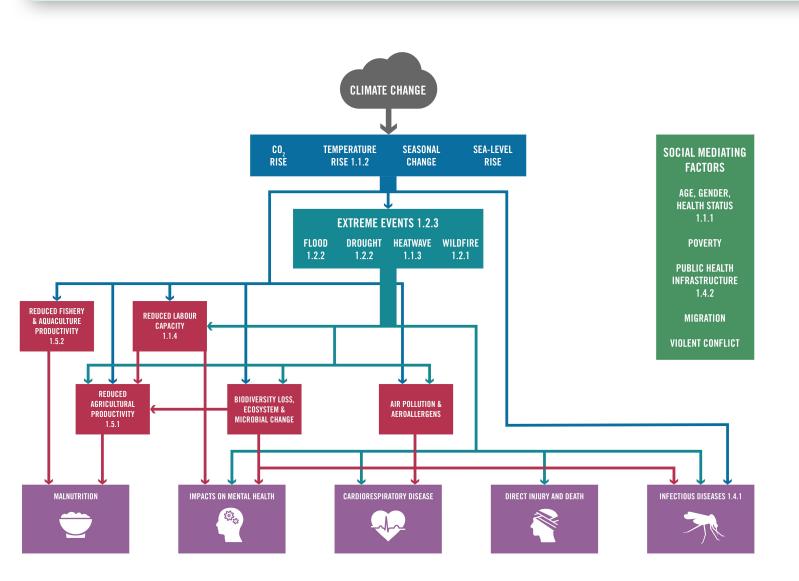
It will take the work of the 7.5 billion people currently alive to ensure that the health of a child born today is not defined by a changing climate."





WWClimate Change Impacts, Exposures & Vulnerability





- **1.1 Heat and Health**: Vulnerability to Extremes of Heat; Exposure to Warming; Exposure of Heatwaves; Change in Labour Capacity
- 1.2 Health and Extreme Weather Events: Wildfires; Flood and Drought; Lethality of Weather-Related disasters
- 1.3 Global Health Trends in Climate-Sensitive Diseases
- 1.4 Climate-Sensitive Infectious **Diseases**: Suitability for Transmission; Vulnerability
- 1.5 Food Security and **Undernutrition**: Terrestrial Food; Marine Food



Adaptation Planning & Resilience for Health



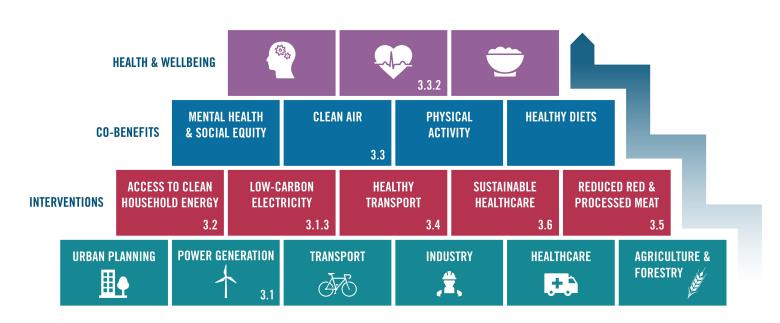


- 2.1 Adaptation Planning and Assessment: National Adaptation Plans and Assessments for Health; City-Level Climate Change Risk Assessments
- 2.2 Climate Information Services for Health
- 2.3 Adaptation Delivery and Implementation: Detection, Preparedness and Response to Health Emergencies; Air Conditioning Benefits and Harms
- 2.4 Adaptation Spending for Health



Mitigation Actions & Health Co-Benefits





FOUNDATIONS OF GOOD HEALTH

- 3.1 Power Generation: Carbon Intensity of the Energy System; Coal Phase-Out; Zero-Carbon Emission Electricity
- 3.2 Access and Use of Clean Energy
- 3.3 Clean Air: Air Pollution in Cities; Premature Mortality from Ambient Air Pollution by Sector
- 3.4 Sustainable and Healthy Transport
- 3.5 Food, Agriculture, and Health
- 3.6 Mitigation in the Healthcare Sector

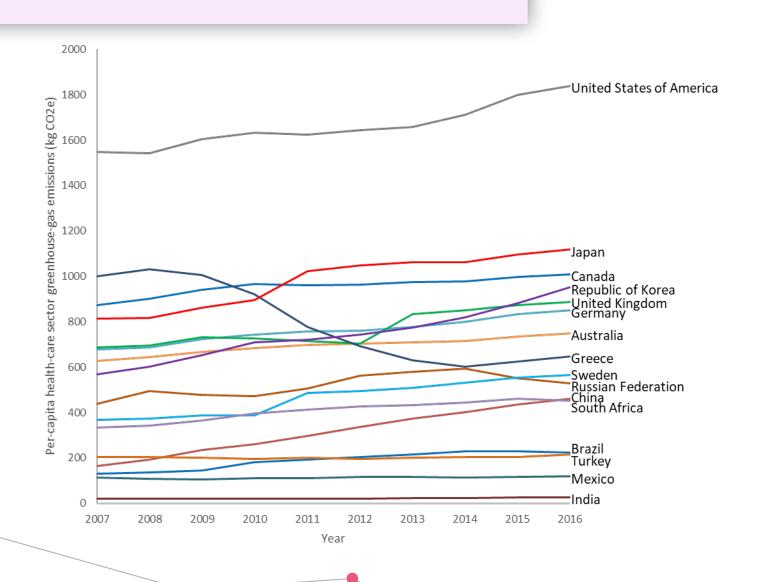


3.6: Mitigation in the Healthcare Sector



Headline Finding:

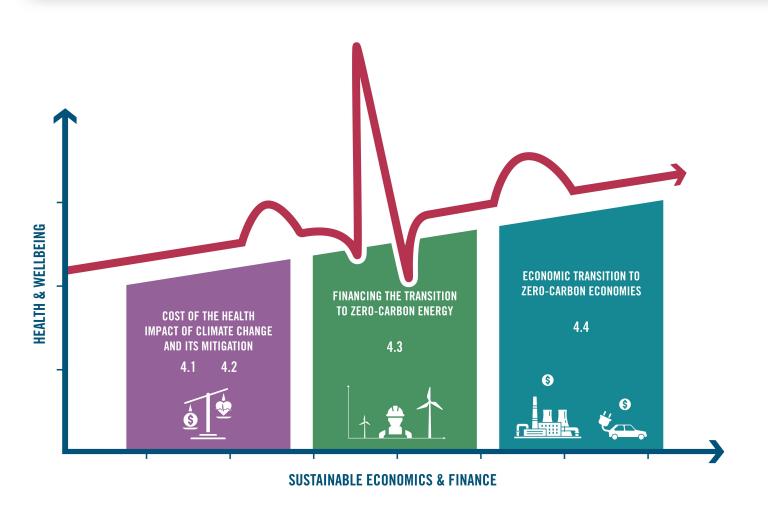
Of the global total emissions in 2016, the healthcare sector contributed 4.6%.





Economics and Finance



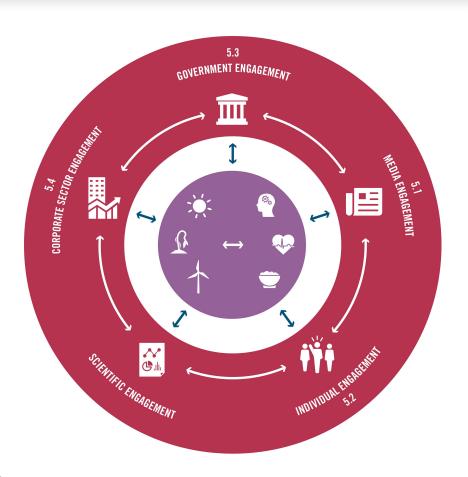


- 4.1 Economic Losses due to Climate-Related Extreme Events
- 4.2 Economic Costs of Air Pollution
- 4.3 Financing the Transition to Zero-Carbon Energy: Investment in New Coal Capacity, Zero-Carbon Energy and Energy Efficiency; Employment in Low-carbon and High-carbon Industries; Funds Divested from Fossil Fuels
- 4.4 Economic Transition to Zero-Carbon Economies: Fossil Fuel Subsidies; Coverage and Strength ff Carbon Pricing, and Use of Revenues



Public and Political Engagement





- 5.1 Media Coverage Of Health And Climate Change
- 5.2 Individual Engagement in Health and Climate Change
- 5.3 Engagement in Health and Climate Change in the United Nations General Assembly
- 5.4 Engagement in Health and Climate Change in the Corporate Sector



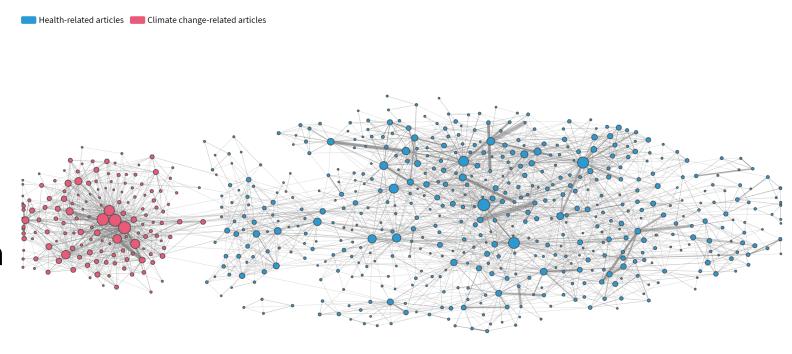
5.2: Individual Engagement in Health and Climate Change



Headline Finding:

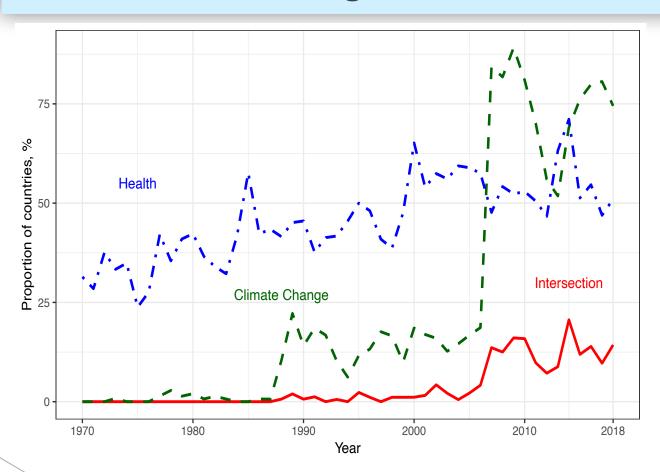
Individuals typically seek information about either health OR climate change.

Where they seek information across these areas, it is primarily driven by an initial interest in health-related content.









Headline Finding:

National leaders are increasingly drawing attention to health and climate change at the UN General Debate.

This trend has been led by Small Island Developing States, who comprised of 36% of the total countries referencing health and climate change in 2018.









JB/12 A/44/PV. 46

The meeting was suspended at 11.25 a.m. and resumed at 11.50 a.m.

ADDRESS BY MR. GEORGE BUSH, PRESIDENT OF THE UNITED STATES OF AMERICA

The PRESIDENT: The Assembly will now hear an address by the President of the United States of America.

Mr. George Bush, President of the United States of America, was escorted into the General Assembly Hall.

The PRESIDENT: On behalf of the General Assembly I have the honour to welcome to the United Nations the President of the United States of America, His Excellency Mr. George Bush, and to invite him to address the General Assembly.

President BUSH: I am honoured to address the General Assembly today at the beginning of its forty-fourth session. I should like to congratulate

Joseph Garba of Nigeria, a distinguished diplomat, on his election as President of this session of the General Assembly, and I wish him success in his presidency.

I feel a great personal pleasure on this occasion, for this is a homecoming

UN General Debate Corpus

- All speeches from 1970 to 2018 (and counting).
- United Nations Dag Hammarskjold Library: English version.
- 8,093 statements.
- UN membership: 70 (1970) and 193 (2018).
- On average 123 sentences, 945 unique forms, and 3,248 individual words each.
- https://github.com/sjankin/UnitedNations





"Speeches at the General Debate are interesting because they flesh out national policies; what states think. It is the one place where states can speak their mind – it reflects the issues that states consider to be most important. In this way, the speeches in the General Debate are unique... The [GD] speeches are one of the least coordinated parts of the [EU's] UN activities."

-Deputy Head of Finnish Mission to the UN

"coordination for the General Debate does not happen; governments do not want other states looking over their speeches ... these speeches are the most sovereign thing that a country does as a member of the UN."

—Spokesperson for the German Mission to the UN

"the General Debate is important because it officially sums up the position of Italy on the most important things in international politics in that particular year... the speech is a summary of a country's foreign policy in a given year."

—Diplomat for the Italian Mission to the UN



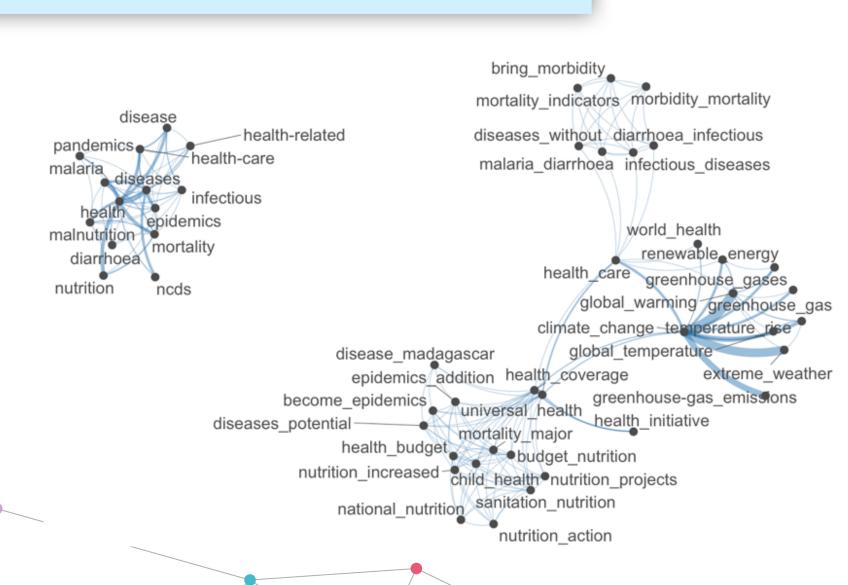
mental disorder

stunting

5.3: Government Engagement in Health and Climate Change



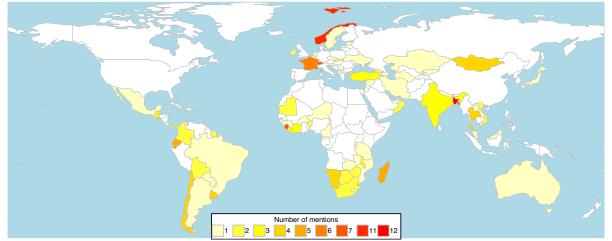
	Health terms	Climate change terms
	•malaria	*climate change
	•diarrhoea	•global warming
	•infection	•green house
	•disease	•temperature
	•sars	extreme weather
	•measles	•global environmental change
	•pneumonia	climate variability
	•epidemic	•greenhouse
	•pandemic	•low carbon
	•public health	•ghge
	•health care	•renewable energy
	epidemiology	carbon emission
	•healthcare	*co2 emission
	•health	*climate pollutant
	mortality	
	morbidity	
	•nutrition	
	•illness	
	•infectious	
	•ncd	
	*non-communicable disease	
\	•noncommunicable disease	
	•communicable disease	
	air pollution	
	•nutrition	
	•malnutrition	



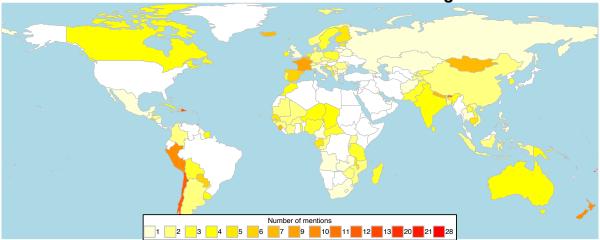




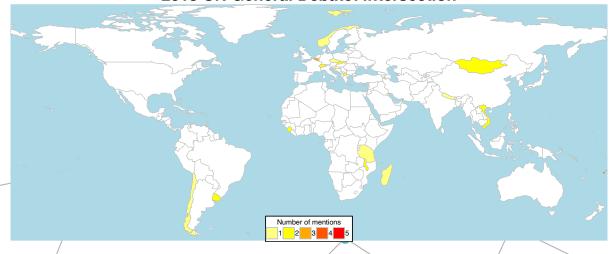




2018 UN General Debate: Climate Change

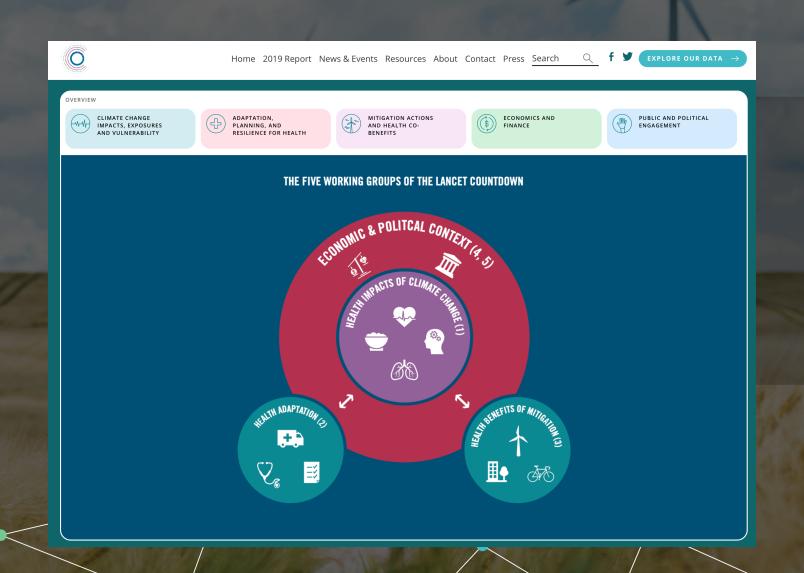


2018 UN General Debate: Intersection



The New Interactive Data Platform







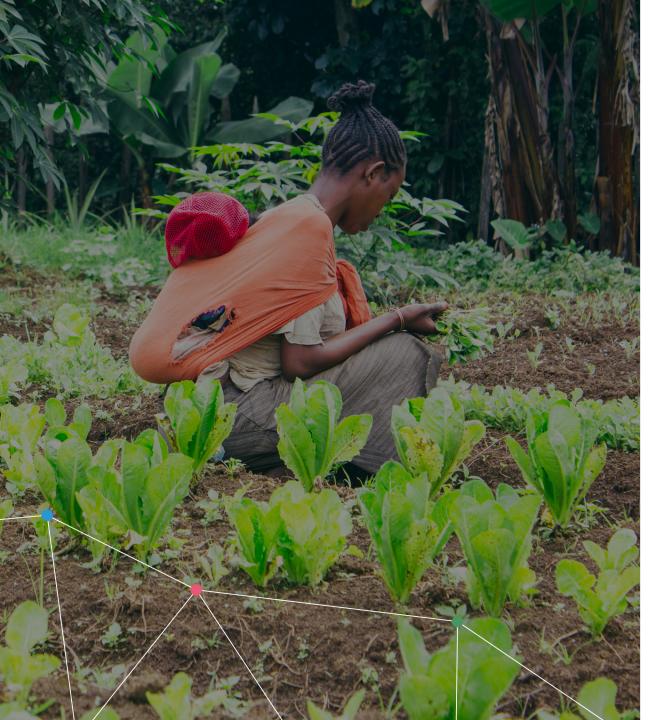
"The life of every child born today will be profoundly affected by climate change...

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"An unprecedented challenge demands an unprecedented response.

It will take the work of the 7.5 billion people currently alive to ensure that the health of a child born today is not defined by a changing climate."



Thank you

Slava Jankin jankin@hertie-school.org

www.lancetcountdown.org

@smych @LancetCountdown THE LANCET



