

# Climate change in 2050: the implications of a heating world

If no action is taken to address climate change, by 2050...

## The places where we live and work



will be **1.5° hotter**<sup>1</sup>

if greenhouse emissions continue at today's rate.

## Infrastructure assets

Extreme hot weather could significantly lower the efficiency of power systems around the world.



Up to **185,000**

airline passengers per year may be grounded due to extreme heat, approximately **23x** more than<sup>3</sup> today.

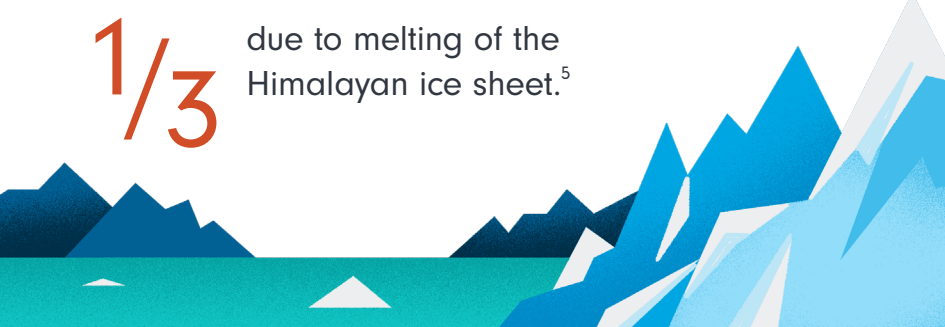


## Natural capital

is prone to significant risks as climate change worsens.

Water flows into the great rivers of Asia will be severely reduced by more than

**1/3** due to melting of the Himalayan ice sheet.<sup>5</sup>

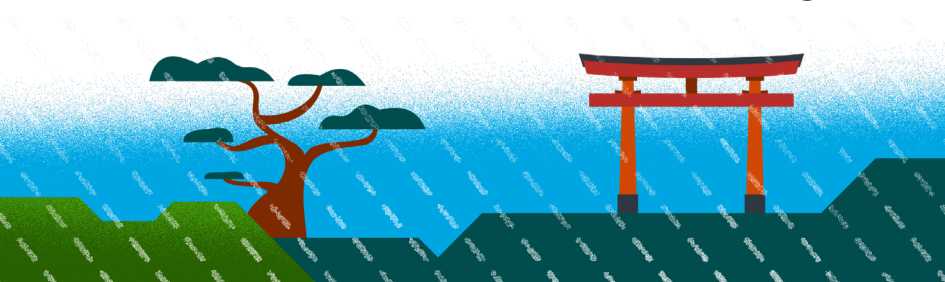


## Precipitation risks

The likelihood of

**extreme precipitation events could increase**

**3 or 4-fold**<sup>7</sup> in Asian regions.



## Waste management

Global waste will grow by **70%**<sup>9</sup>

as urbanisation and populations rise.



## Food production

will become more volatile due to climate change.



Crop yields will decline **1/5**<sup>2</sup> – making it inadequate to feed the growing global population.

## Physical assets

damaged as a result of riverine flooding will rise to

**\$1.6** and **\$1.2**<sup>4</sup> trillion globally trillion in Asia.



## Outdoor air quality

If there is no change in emissions,

**1,126,000** premature mortalities are expected each year.<sup>6</sup>

Outdoor air pollution particulate matter and ground-level ozone are projected to become the top causes of environmentally related deaths worldwide.



## Water management



**57%** of the global population<sup>8</sup>

will live in areas that suffer water scarcity at least 1 month per year.



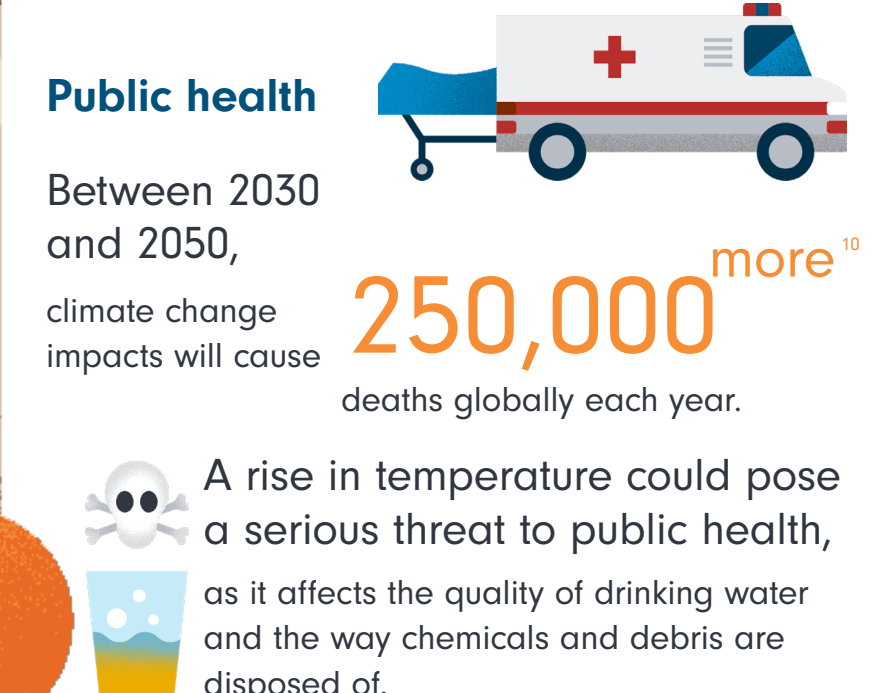
## Public health

Between 2030 and 2050,

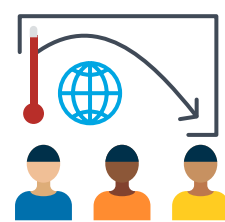
climate change impacts will cause

**250,000** more<sup>10</sup> deaths globally each year.

A rise in temperature could pose a serious threat to public health, as it affects the quality of drinking water and the way chemicals and debris are disposed of.



## Global initiatives and the role of investors in addressing climate change



### Paris Climate Conference in 2015

On December 12, 2015, countries and businesses around the globe joined hands at the global climate conference in Paris, to limit the rise of the global temperature to well below 2 degrees Celsius.



### Net Zero Asset Managers Initiative

A group of 30 global asset managers pledged to reduce their own operational carbon emissions to net zero – no additional emissions – and ensure their investment portfolios are carbon neutral by 2050 or sooner.



### Task Force on Climate-related Financial Disclosures (TCFD)

Set up in 2018 to encourage asset managers to actively engage investee companies to provide climate disclosure aligned to the TCFD framework.

1. Source: NASA, 2019.  
2&5. Source: Existential climate related security risk by Breakthrough - National Centre for Climate Restoration, 2019.  
3&4&7. Source: Climate risk and response in Asia by McKinsey Global Institute, 2020.

6. Source: Neihls, University of Leeds, 2019.  
8. Source: nature.com, 2019.  
9. Source: Worldbank, 2018.  
10. Source: WTO, 2018.

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