

30 AUGUST 2023

PRESENTATION – BOAO FORUM FOR ASIA PERTH 2023

Fortescue Metals Group Ltd (Fortescue, ASX: FMG) advises that Executive Chairman, Dr Andrew Forrest AO, is presenting at the Boao Forum for Asia Perth on Wednesday, 30 August 2023. A copy of the presentation is attached and a recording of the presentation will be available on Fortescue's website at www.fortescue.com.

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Forward Looking Statements Disclaimer

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Additional Information

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What's the chance of 1.5°C holding?

1 in 50



**We have better odds
in roulette (1 in 36)**

But this misses the point

There is now an immediate threat

It is much more lethal than COVID

The fossil fuel industry admits global temperatures are rising

Supran et al (2023)

**But there's something they're
not telling you...**

Something else is rising

Much faster

And it's already killing people

Could your health already be at risk?

Yes

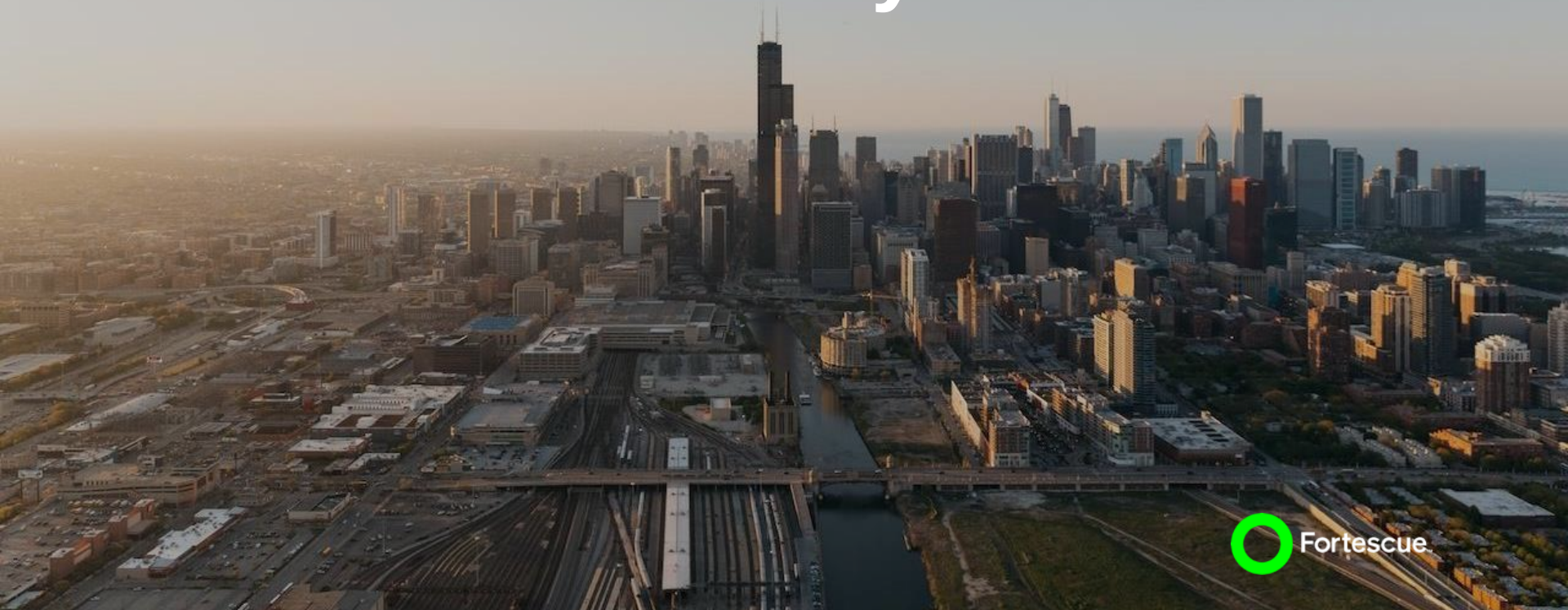
Humanity is at risk

Now

Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Saeed et al (2021) & Wang et al (2021) & Vecellio et al (2022) & Freychet et al (2020)



Can you escape if you live in a city?



Sure, until the air conditioning fails

Sherwood and Huber (2010)

**You're young and
work outdoors
Are you safe?**



You're at extreme risk

Im et al. (2017) & Abokhashabah (2020) & Vecellio et al (2022) & de Lima et al (2019)
& Foster et al (2020) & Morris et al (2021)



**So are children, grandparents
and people who are already ill**

Why?

Lethal humidity

Im et al (2017) & Saeed et al (2021) & Wang et al (2021) & Vecellio et al (2022) & Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Raymond et al (2020) & Freychet et al (2020) & Wang et al (2020)

Normally your sweat cools you down

Osilla et al (2023) & Kovac (2010) & Raymond et al (2020)

But if it's too humid...

Your sweat can't evaporate
Your body heat can't escape

Your core temperature starts to rise

Raymond et al (2020) & Vecellio et al (2022)

**At just 35°C, with high humidity,
you can die in six hours**

But even temperatures as low as 31°C can kill

Lethal Humidity is already here

Columbia University & Saeed et al (2021) & Raymond et al (2020)



But it's rising

**For every degree our planet
warms, humidity rises 7%**

**Lethal Humidity will be
the next global pandemic**

Health care systems are straining They will fail

Filip et al (2022)

CONTENITORE MONOUSO PER
RIFIUTI SANITARI
PERICOLO
A RISCHIO INFETTIVO



Fortescue

This time, there's no cure

Your heart rate accelerates

Pounding headache

Vomiting

**Your heart pumps up to 400%
more blood than normal**

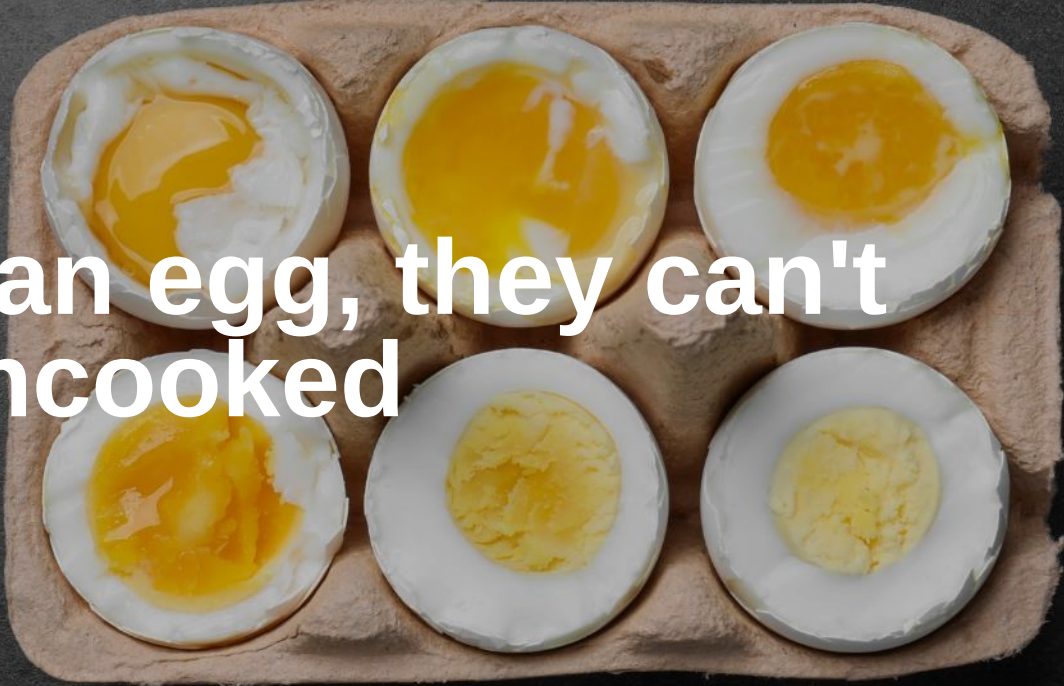
Within minutes to hours...

**Your body temperature
will rise to a very dangerous**

41°C

**This is the beginning
of the end**

The tiny structures that enable you to be alive unravel

A top-down view of a brown cardboard egg carton containing six hard-boiled eggs, arranged in two rows of three. The eggs are sliced in half, revealing bright yellow yolks and white albumen. The carton is set against a dark, textured background.

Like an egg, they can't
be uncooked

You bleed internally

Your blood thickens

Harvard Medical School & Kenny et al (2010)



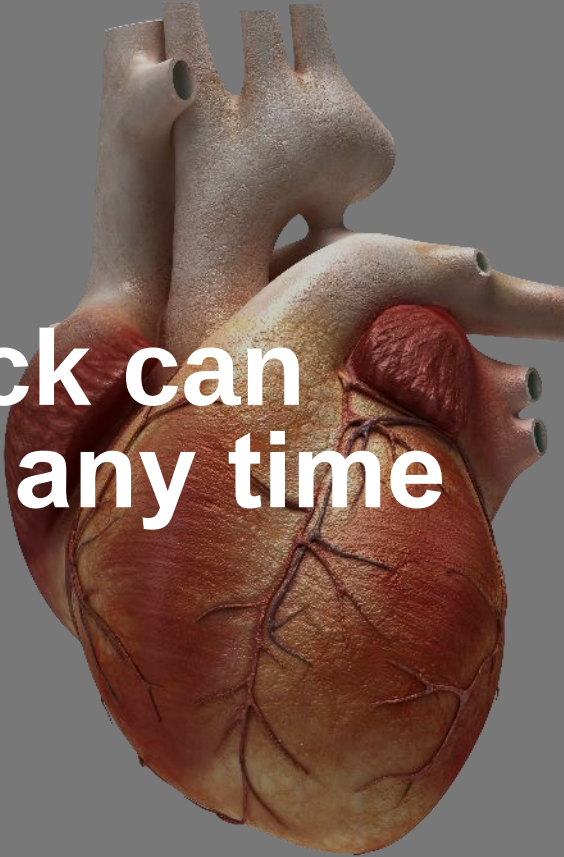


Your organs start to fail

Hallucinations

Seizures

Coma

An anatomical illustration of a human heart, showing the major blood vessels (aorta, pulmonary artery, and pulmonary veins) and the coronary arteries. The heart is rendered in a realistic, slightly translucent style, showing the internal structure of the ventricles and the branching network of arteries. The color palette is primarily reds and oranges, with some lighter, more translucent areas for the vessels.

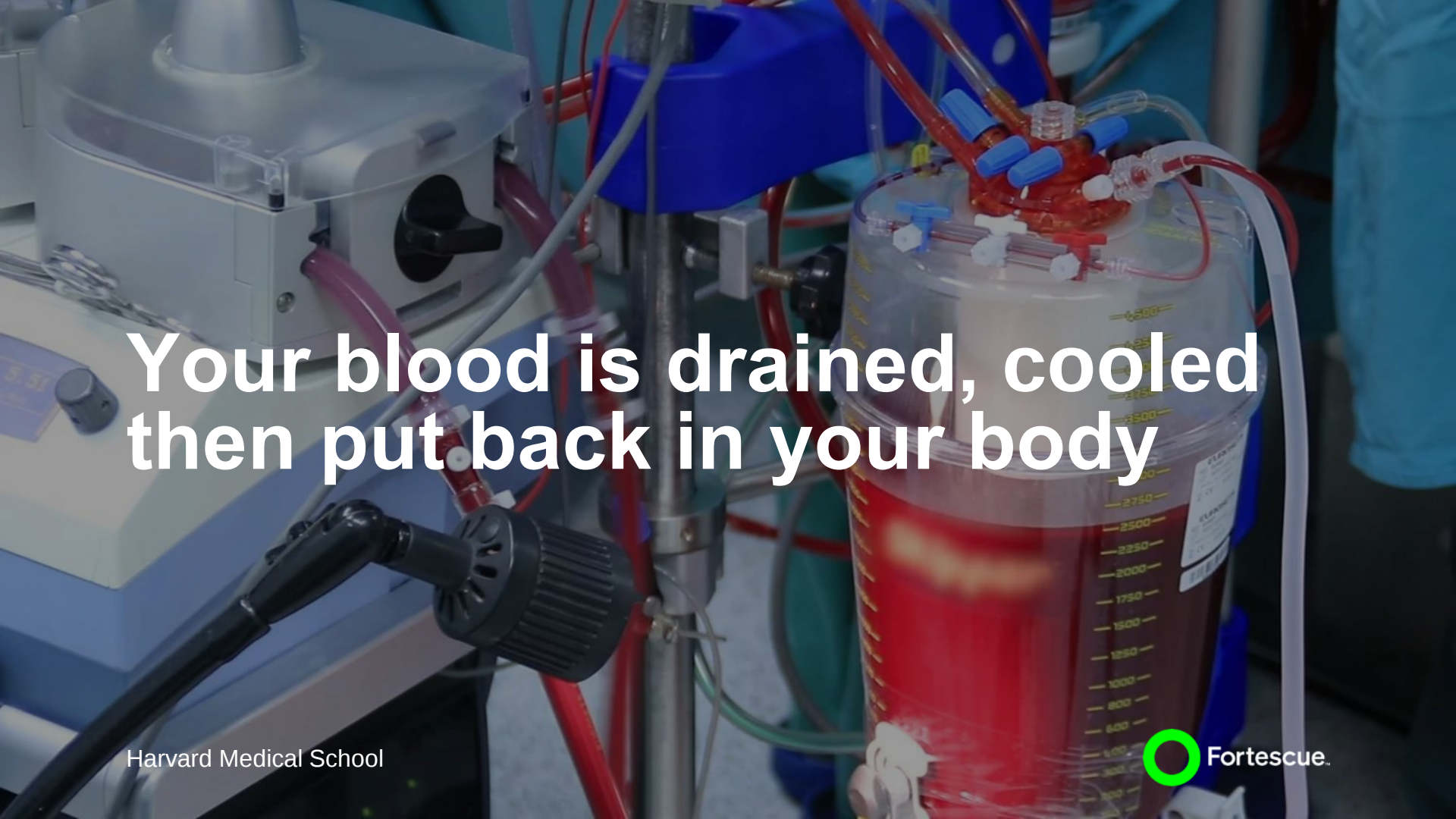
Heart attack can happen at any time

You struggle to breathe

A close-up photograph of a medical procedure being performed on a patient's arm. A healthcare provider, wearing blue nitrile gloves and a black wristwatch, is using a grey medical device on the patient's skin. The patient's arm is resting on a surface covered with crushed ice. Several circular medical sensors are attached to the patient's arm. In the background, a grey basin and other medical supplies are visible. The text "If you've made it to hospital..." is overlaid in white. The Fortescue logo is in the bottom right corner.

If you've made it to hospital...

**You can have a
“cardiopulmonary bypass”**

A close-up photograph of medical equipment, likely a perfusion system. A large, clear plastic reservoir on the right is partially filled with red liquid (blood). It has multiple ports with blue and white caps. To its left is a grey machine with a black dial and various tubes connected. A black cable with a circular connector is in the foreground. The background is slightly blurred, showing more medical equipment and a person in blue scrubs.

**Your blood is drained, cooled
then put back in your body**

Even if you get to a hospital...

**You're more likely to die than
survive**

If you don't make it to hospital

You die

Ebi et al (2021) & Sherwood and Huber (2010) & Im et al (2017)

A photograph of a brown and white cow standing in a green field. A small white lamb is perched on the cow's back, facing forward. The background shows rolling green hills and a line of trees under a clear sky.

**All mammals (including you)
have a new, real and current
danger**

Sherwood and Huber (2010) & Coffel et al (2018)

The most affected countries are the biggest:

China, India and the USA

Coffel et al (2018) & Pew Research Center & Wang et al (2019) & Freychet et al (2020)

Where much of the world's food comes from

Saeed et al (2021) & Mishra et al (2020) & World Population Review

But also

West Africa
South America
All of Asia
Australia
Central Europe
Middle East

Coffel et al (2018) & Freychet et al (2020) & Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Saeed et al (2021) & Wang et al (2021)



What happens next?



Stampede migration, survival behaviours and border collapse

Horton et al (2021) & Xu et al (2020) & Carril et al (2022)

Think Central to North America

Border walls fail

Wall between California and Tijuana Baja California



Mexico Heatwave June 2023

Think Africa to Europe



Ethiopia Droughts January 2023

Think across Asia



Ballia India Deadly Heat
June 2023

A construction worker wearing a yellow hard hat and blue gloves is wiping sweat from his forehead with his right arm. He is wearing a white t-shirt with some paint splatters. The background shows a construction site with blue vertical pipes and yellow machinery.

Xinjiang China 52.2°C Heat
July 2023



Zhouzhou China Flooding August 2023



**Buan, South Korea Dangerous Humidity
August 2023**

The world has Stockholm Syndrome

We are tied to fossil fuels

**We think we can't survive
without them**

But we can...

And we must

The origination of global warming is the industrial world

**One major company must go
first**



We are Fortescue

We are completely decarbonising



Real Zero by 2030

**Decarbonisation
underway**

**US\$10 billion
EBITDA** (FY23)



**Iron Ore &
Critical Minerals**

Green steel,
battery metals,
proof of delivery

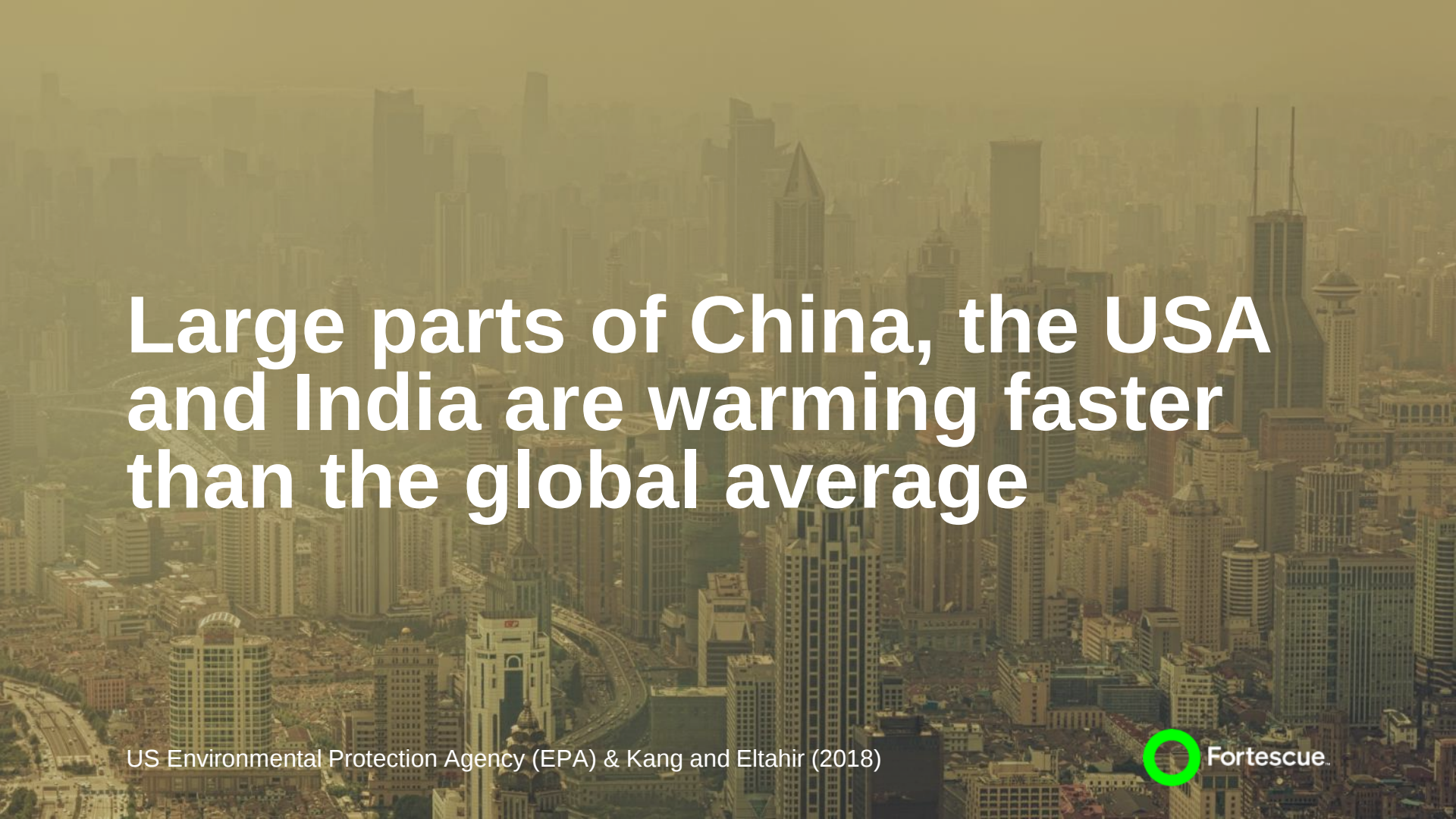
Green Energy

Technologies, electrons,
innovation, social license

Creating green energy to replace fossil fuels

Designing green tech to enable Real Zero

**We are asking China, the USA
and India to do no more than this**



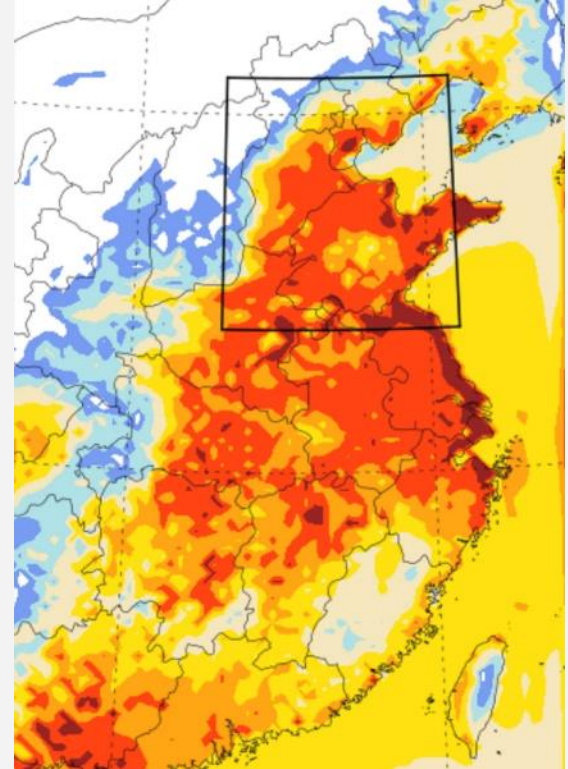
**Large parts of China, the USA
and India are warming faster
than the global average**

US Environmental Protection Agency (EPA) & Kang and Eltahir (2018)

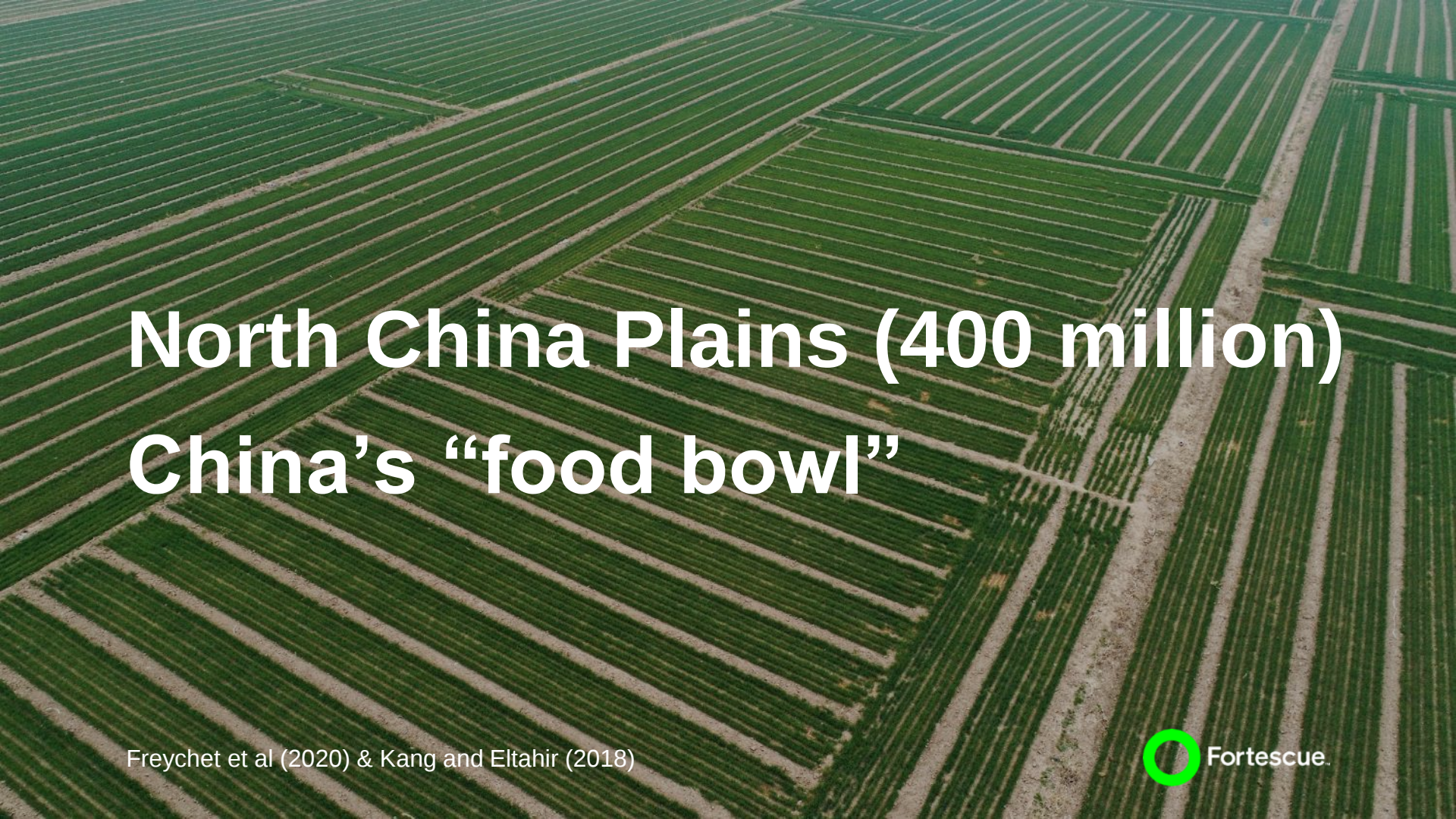


Lethal Humidity conditions are already occurring in parts of East China

**Red marks where
Lethal Humidity
will happen, as it
gets worse**



Kang and Eltahir (2018) & Li et al (2020) & Dawei Li et al (2020)



North China Plains (400 million) China's “food bowl”

Freychet et al (2020) & Kang and Eltahir (2018)

**One of the most densely
populated regions in the world**

Yangtze River Valley

Kang and Eltahir (2018) & Freychet et al (2020)

Southeastern China

Wang et al (2019)

A wide-angle photograph of the Shanghai skyline across a body of water. The Oriental Pearl Tower is prominent on the left, and the Shanghai Tower is the tallest building on the right. The sky is blue with scattered white clouds.

Shanghai, Weifang, Jining, Qingdao, Rizhao, Yantai and Hangzhou

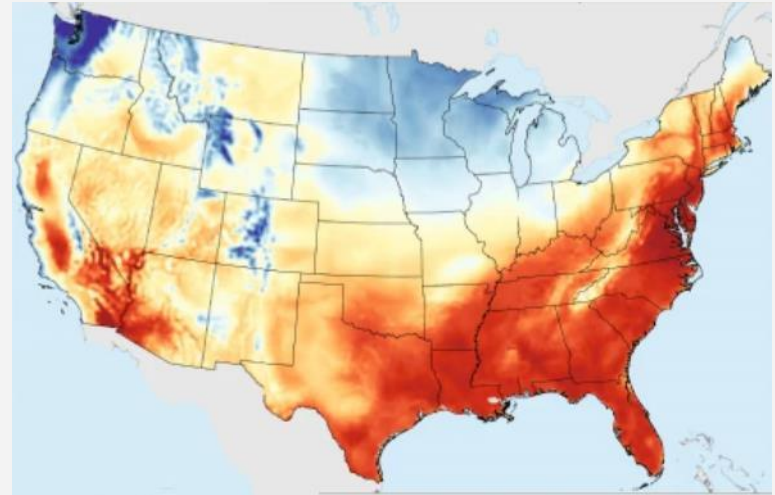
Freychet et al (2020) & Kang and Eltahir (2018)



In the USA, Lethal Humidity occurs at 1.5°C warming

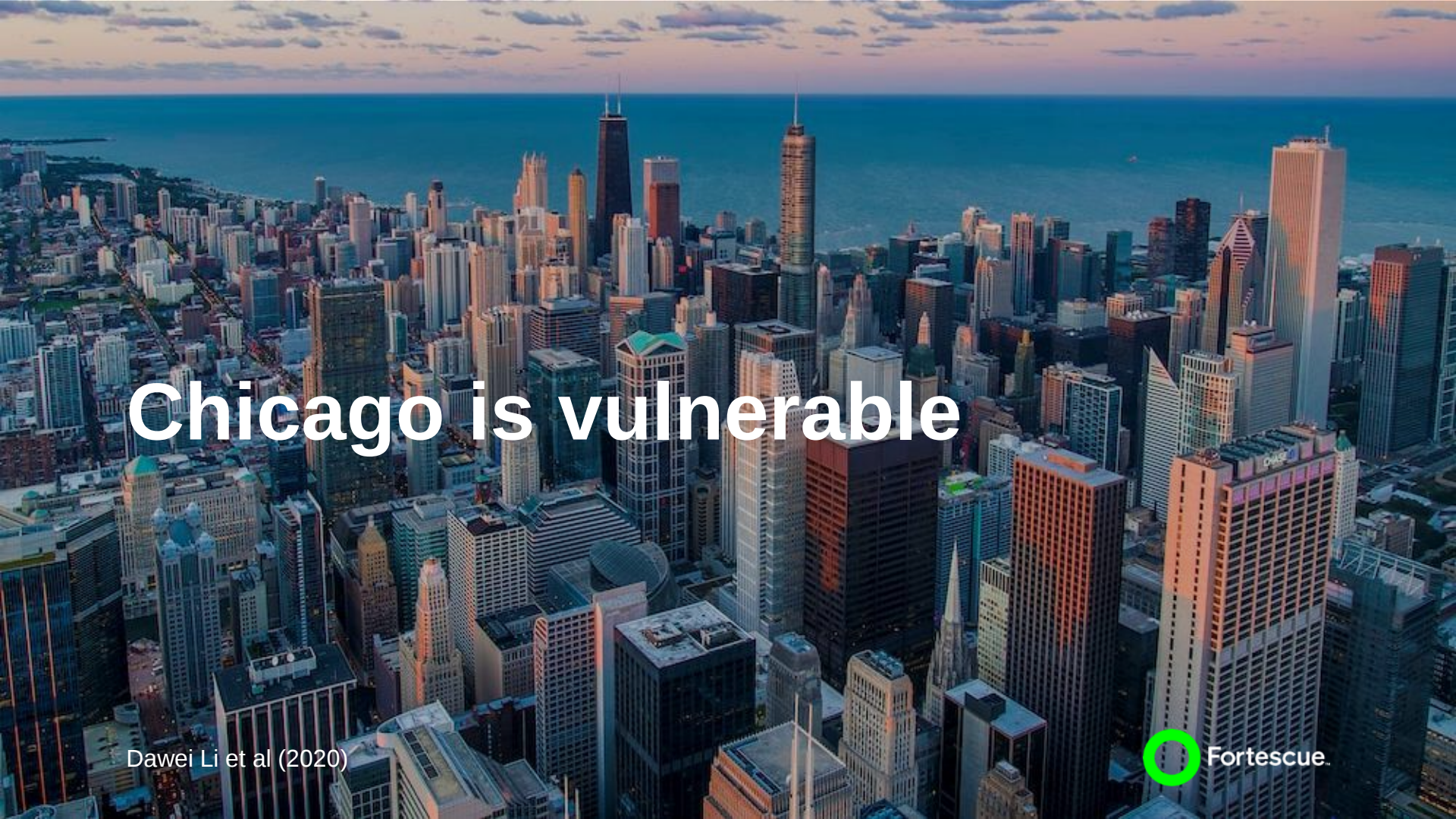
Buzan and Huber (2020) & Freychet et al (2022) & Dawei Li et al (2020)

Southeast USA is most at risk



Spangler et al (2022)

Raymond and Horton (2017)

An aerial photograph of the Chicago skyline at sunset. The city is densely packed with skyscrapers, and the sun is low on the horizon, casting a warm, golden glow over the buildings. The Lake Michigan is visible in the background, with a few small boats on the water. The sky is a mix of orange, pink, and blue.

Chicago is vulnerable

Dawei Li et al (2020)

India?

**Lethal Humidity
conditions already exist...**

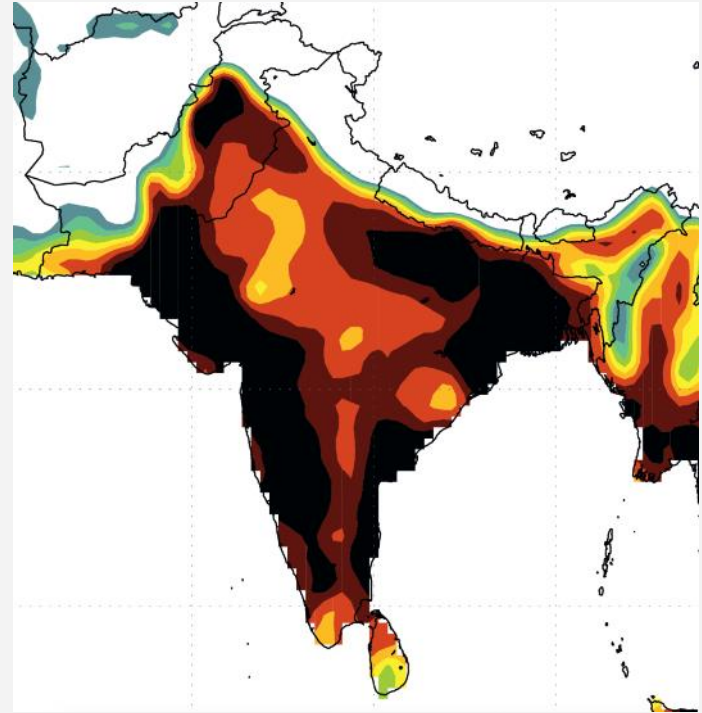
**They have already been
recorded on India's:**

East coast

Southwest coast

Northwest

**But Lethal
Humidity
becomes
commonplace
in India at 1.5°C
(black)**



Saeed et al (2021) & Raymond et al (2020)

A wide-angle, high-angle photograph of a bustling street in Mumbai, India. The street is filled with a dense traffic of vehicles, including numerous yellow and black taxis, white cars, and several red double-decker buses. A large crowd of pedestrians is walking along the sidewalks and crossing the street. In the background, the grand, ornate, and light-colored stone building of the Victoria Memorial is visible, surrounded by lush green trees. The sky is overcast, and the overall atmosphere is one of a busy, crowded urban environment.

Mumbai (17 million)



New Delhi (33 million)

A photograph of an elderly man standing in a vast, lush green rice field. He is shirtless, wearing a white cloth draped over his left shoulder and a white dhoti. The field is filled with tall, green rice stalks. In the background, there is a line of trees, including several palm trees, under a clear sky.

India's food bowl, the Indo-Gangetic Plains

Freychet et al (2022)

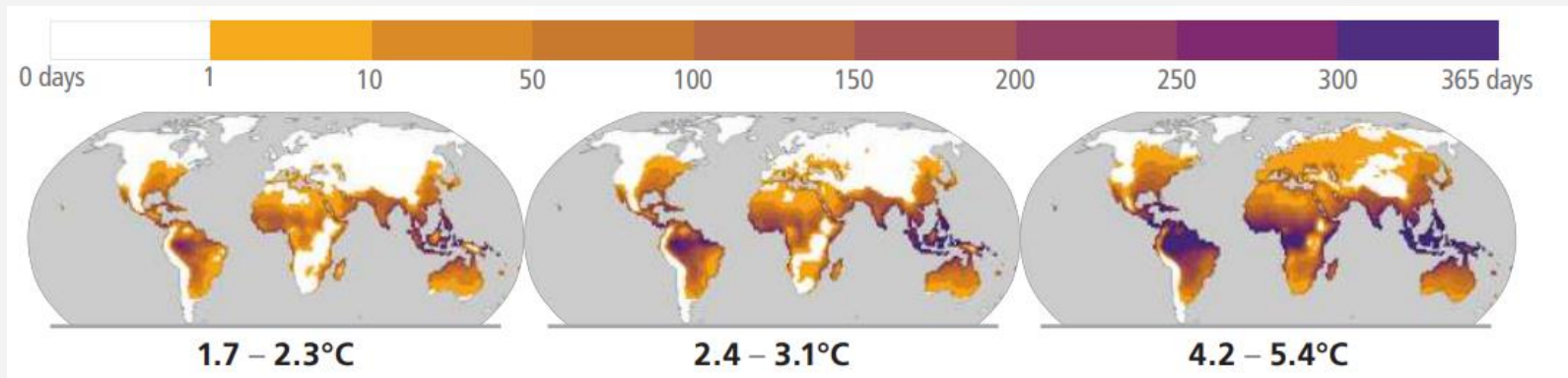
In Australia:

**Lethal Humidity occurs at
1.5°C warming**

The more the planet warms, the worse Lethal Humidity gets

Freychet et al (2022)

Some countries will experience 365 days a year of mortality risk (IPCC, 2023)



We can duck this no longer

**The actions we need to
take are clear**

**Take down all barriers
to green energy manufacturing**

Including fossil fuel subsidies

Match policy settings to risk

Immediately

Support a Green Armistice China, the USA and India

When?

**APEC, November 2023
California**

What?

**Announce law intention to
render illegal any action which
that would prevent mitigation
of global warming**

Who?

President Xi

President Biden

Prime Minister Modi

Green Armistice

MEMBERS
RESOLUTION

BOAO Forum
Perth, today

1

DISCUSSIONS
PROCEED

G20
New Delhi,
September

2

LAW INTENTION
ANNOUNCED

APEC
San Francisco,
November

3

IMPLIMENTATION BY
GLOBAL BUSINESS

BOAO Initiative
Hainan, March
2024

4

CHINA, USA AND INDIA – LEAD THE WORLD

**SIMPLE AGREEMENT LED BY BUSINESS –
FAST**





**We
are the ones responsible
for the deaths caused by
climate change**



**You
can hold business leaders
to account**

A close-up photograph of a hand in a red sleeve inserting a white ballot into a slot on top of a grey ballot box. The background is dark and out of focus.

**You
can hold your local
government leaders to
account**



Make us change

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