



This presentation is based on world-leading peer-reviewed scientific publications

It is designed to be read in 2 minutes and presented in 6 minutes

Temperatures are rising

But something else is also rising

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

You are not evolved for this

Your DNA is wired to handle heat, but not with humidity

That's why it's called Lethal Humidity

7

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)



There is no vaccine

There is no cure

If it's too humid...

Your sweat can't cool you

Your body heat can't escape

Your core temperature rises

On a 35° C day, with high humidity, you can die within hours

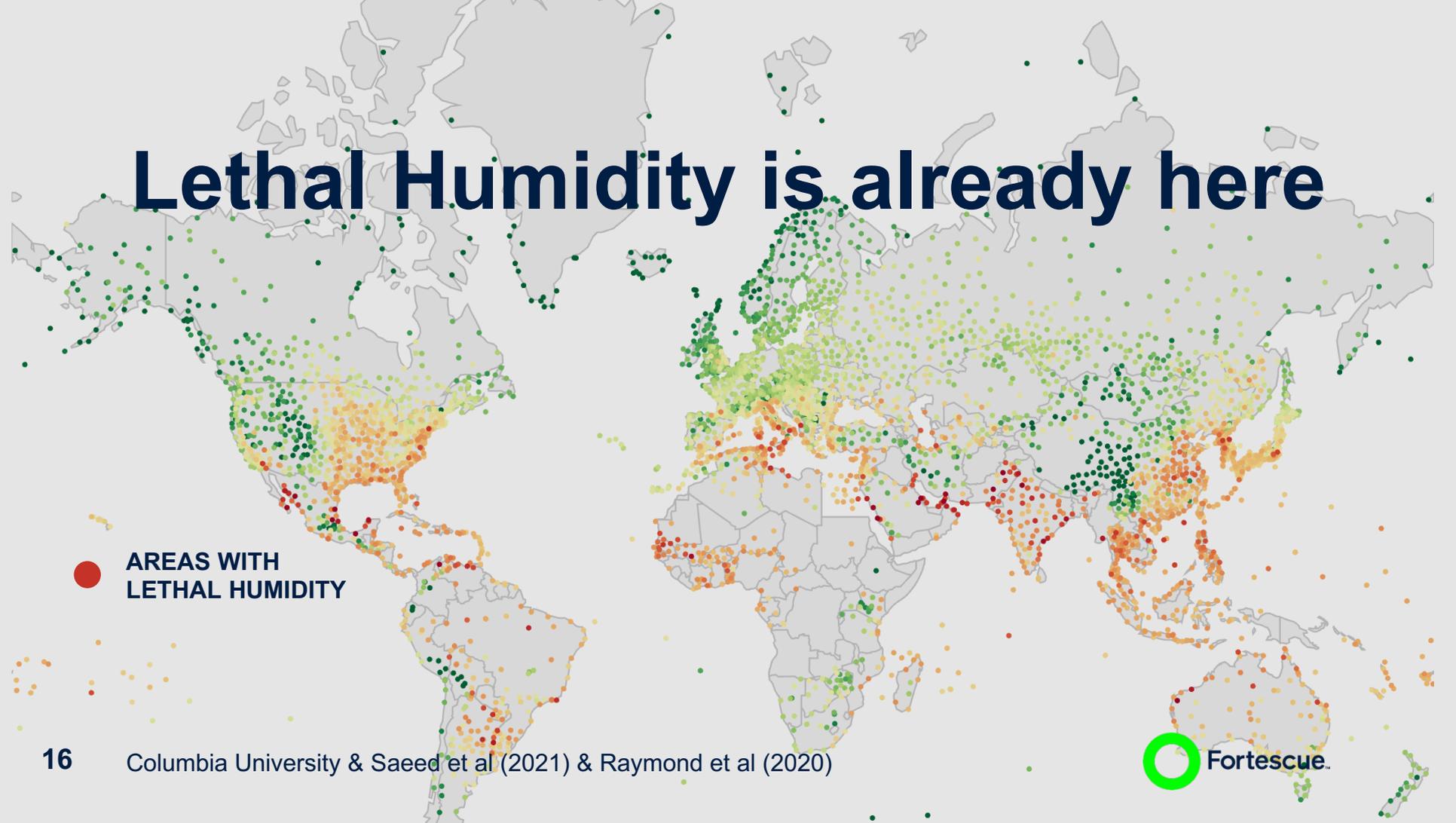
Even 31°C can kill some people

Lethal Humidity is already here

 AREAS WITH
LETHAL HUMIDITY

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

 Fortescue.



**Hot air holds more humidity and,
worse...**

**The hotter it gets, the more water
evaporates to humidity**

It's a vicious cycle

We have to stop it now

It's multiplying energy in the weather system

Humidity is why Storms, floods, heatwaves and tropical cyclones...

Are becoming so violent

A man wearing a dark jacket and a camouflage cap is wading through murky, brown floodwaters. He is holding a large, tan-colored dog in his arms. The background shows a white building, bare trees, and a black metal fence. The scene is set in California during January.

California, January



Spain, July

A photograph capturing a scene of urban flooding in China. In the foreground, a yellow excavator bucket is partially submerged in murky water, serving as a makeshift boat. Three men are inside the bucket: one is seated in the center, shirtless and wearing striped shorts; another man in a maroon shirt and khaki shorts stands behind him, leaning forward; and a third man in a dark t-shirt and shorts stands to the right, holding a plastic bottle. A blue gas cylinder with Chinese characters is visible inside the bucket. The background shows a flooded street with a green bus, white vans, and a silver car partially submerged. The text "China, August" is overlaid in white on the scene.

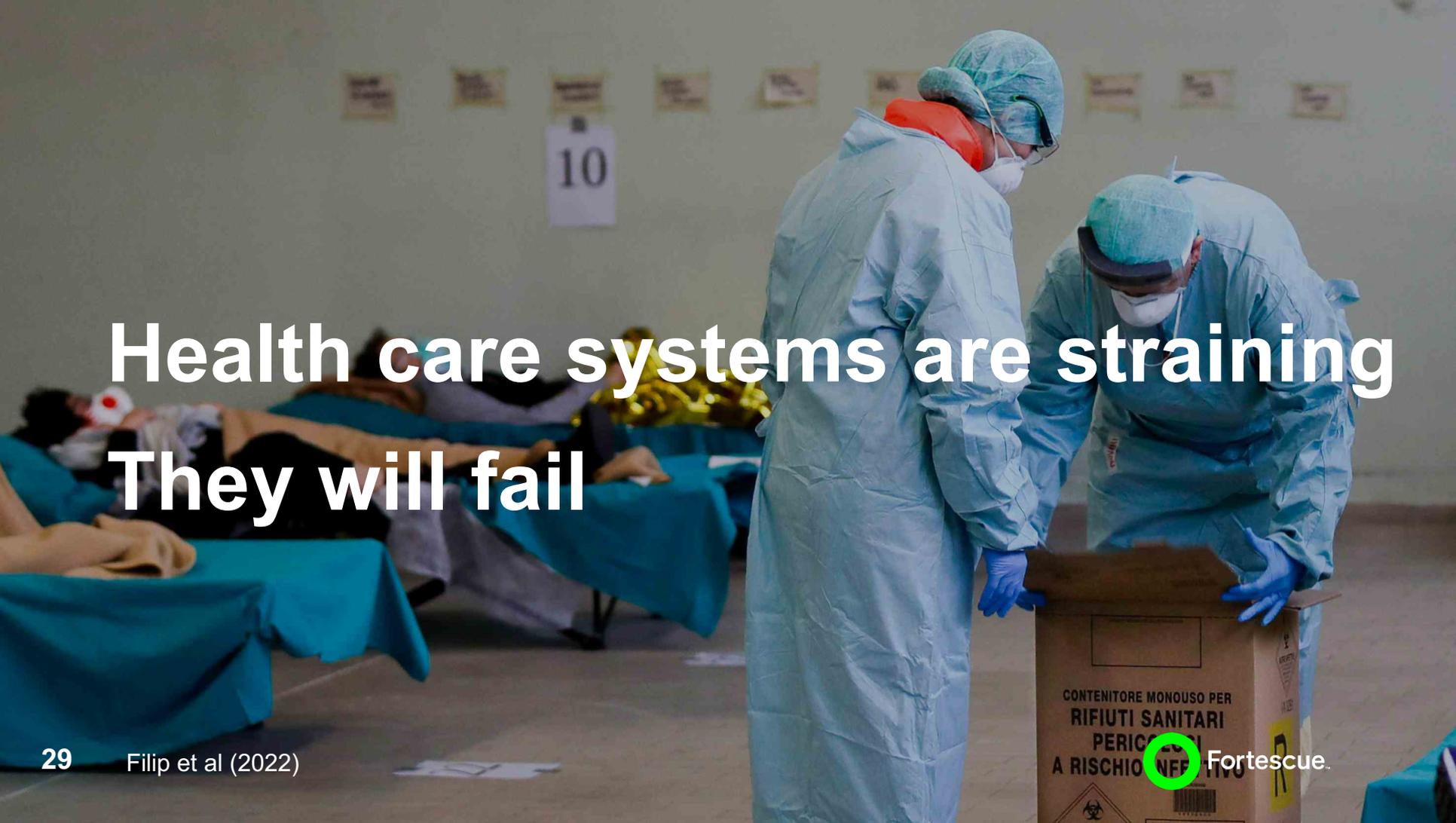
China, August

A group of young people, likely participants in a summer camp or outdoor program, are walking through a campsite. They are carrying large backpacks and some are wearing hats and sunglasses. The campsite is filled with tents, including a large white tent and a green tent. In the foreground, there is a large pile of gear, including backpacks, bags, and clothing. The text "South Korea, August" is overlaid on the image in a large, white, sans-serif font.

South Korea, August

Humidity is also a greenhouse gas
It's accelerating global warming

Lethal Humidity will be the next global pandemic



Health care systems are straining They will fail

Your heart rate accelerates

Pounding headache

Vomiting

**Your heart pumps up to 400%
more blood per minute**

Within minutes to hours...

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

41°C



This is the beginning of the end

You bleed internally (haemorrhage)

Your blood thickens

The protein structures you need to live, unravel

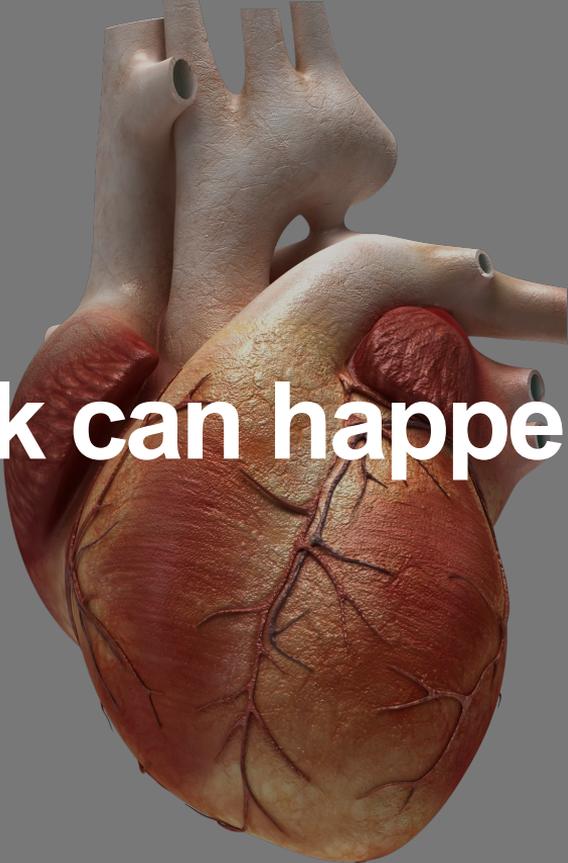
Like an egg, they can't be uncooked



Hallucinations

Seizures

Coma



Heart attack can happen at any time

You struggle to breathe

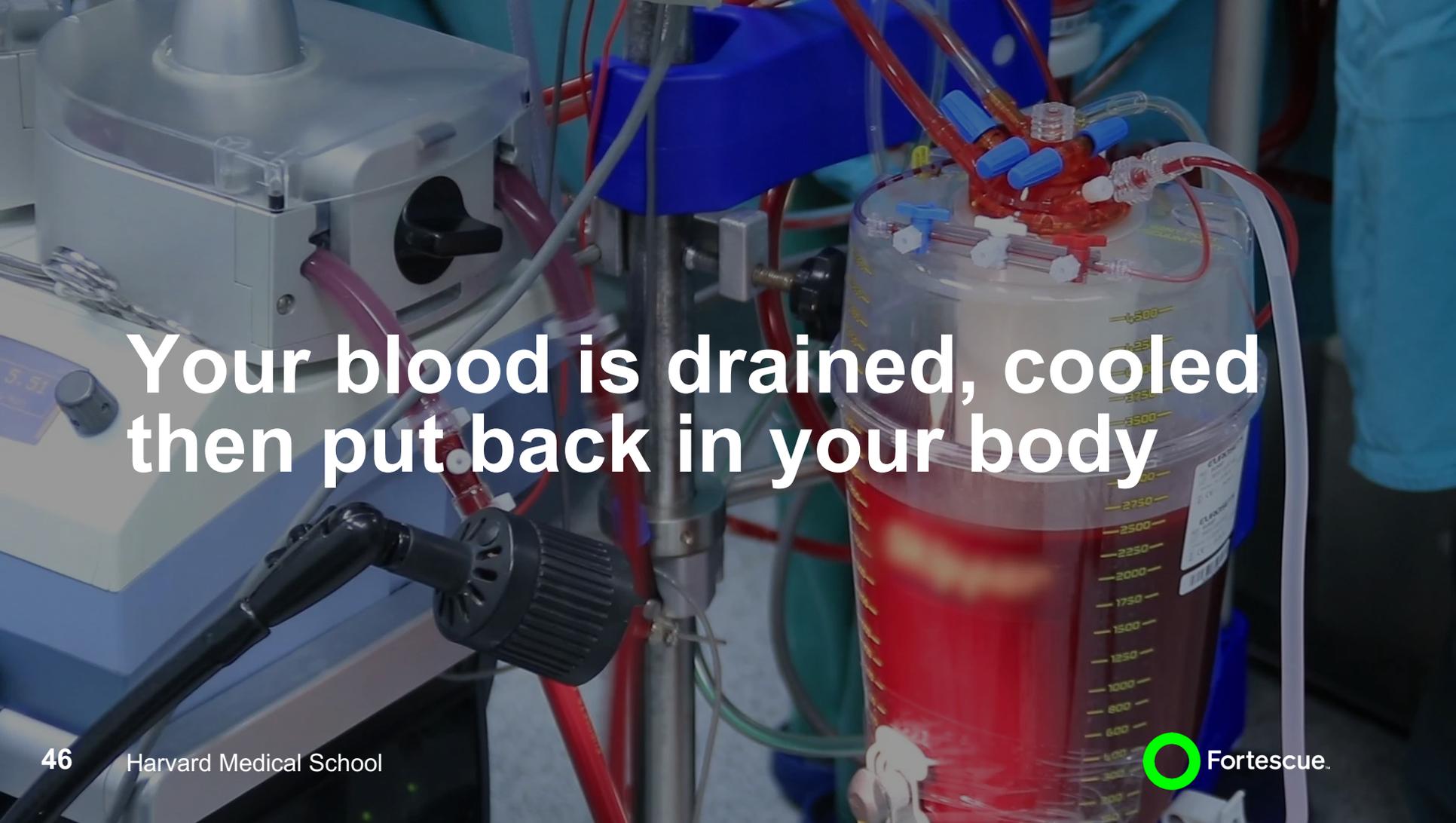


Your organs fail



If you've made it to hospital...

You can have a cardiopulmonary bypass

A close-up photograph of a medical device, likely a perfusion system. It features a large, clear plastic reservoir filled with a red liquid, representing blood. The reservoir has yellow volume markings on its side, ranging from 0 to 3500. The top of the reservoir is connected to a complex network of red and clear plastic tubes and connectors. Some connectors are blue. To the left, there is a grey and white control unit with a black knob and a digital display showing '5.51'. The entire setup is mounted on a metal stand. The background is slightly blurred, showing a clinical setting with blue scrubs.

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

But 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

Lethal Humidity

Estimated 100 million are at risk

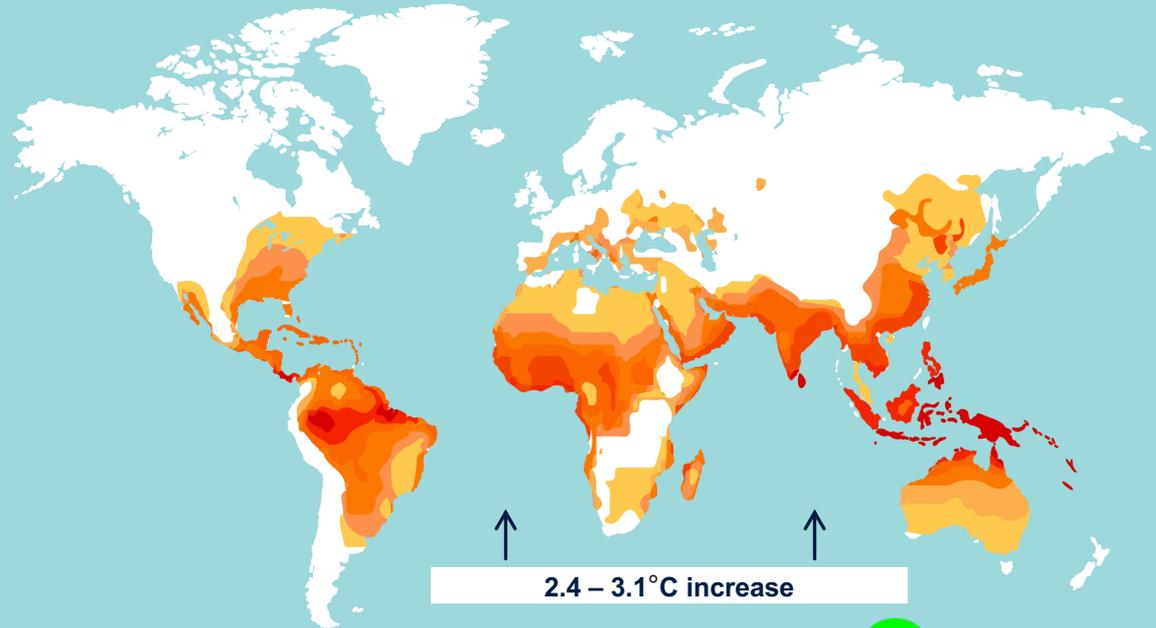
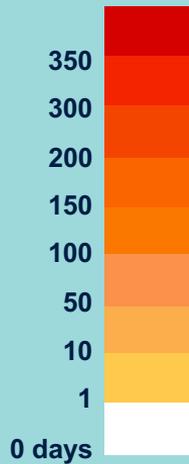
51 Freychet et al (2020) & Coffel et al (2018) & Buzan and Huber (2020) & Kang and Eltahir (2018) & Zhang et al (2021) & Saeed et al (2021) & Wang et al (2021) & Wang et al (2019) & Li et al (2020) & Dawei Li et al (2020) & Russo et al (2017) & Speizer et al (2021) & Raymond and Horton (2017)



The most impacted countries are the biggest: China, the USA and India

The more the planet warms, the worse Lethal Humidity becomes

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



What happens next?



Stampede migration, survival behaviours and border collapse

Think Central to North America

Think Africa to Europe

Think across Asia

The world has Stockholm Syndrome

An irrational loyalty to fossil fuels

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

But we can...

And we must

The industrial world is responsible

And it must change

With policies that enable, not prevent change

One major company is going first



We are Fortescue

We are completely decarbonising

Real Zero by 2030

Decarbonisation underway

US\$10 billion Earnings



Creating green energy to replace fossil fuels

Designing green tech to enable Real Zero

We are asking

China

USA

India

to do no more than this

We can duck this no longer

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

1. Take down all barriers to green energy manufacturing

2. Eliminate fossil fuel subsidies

3. Match policy settings to risk

Immediately

Who?

President Xi • President Biden • Prime Minister Modi

What?

**Announce immediate plans
rendering illegal all actions that
prevent global warming mitigation**

When?

November, this year

Where?

APEC, San Francisco

Why?

**Without a Green Armistice,
Lethal Humidity will kill way
more people than hot wars**

Green Armistice

MEMBERS RESOLUTION	MEMBERS RESOLUTION	DISCUSSIONS PROCEED	LAW INTENTION ANNOUNCED	IMPLIMENTATION BY GLOBAL BUSINESS
BOAO Forum for Asia Perth August	Africa Climate Summit Nairobi September	G20 New Delhi September	APEC San Francisco November	BOAO Initiative Hainan March 2024
1	2	3	4	5

SIMPLE AGREEMENT LED BY BUSINESS – FAST



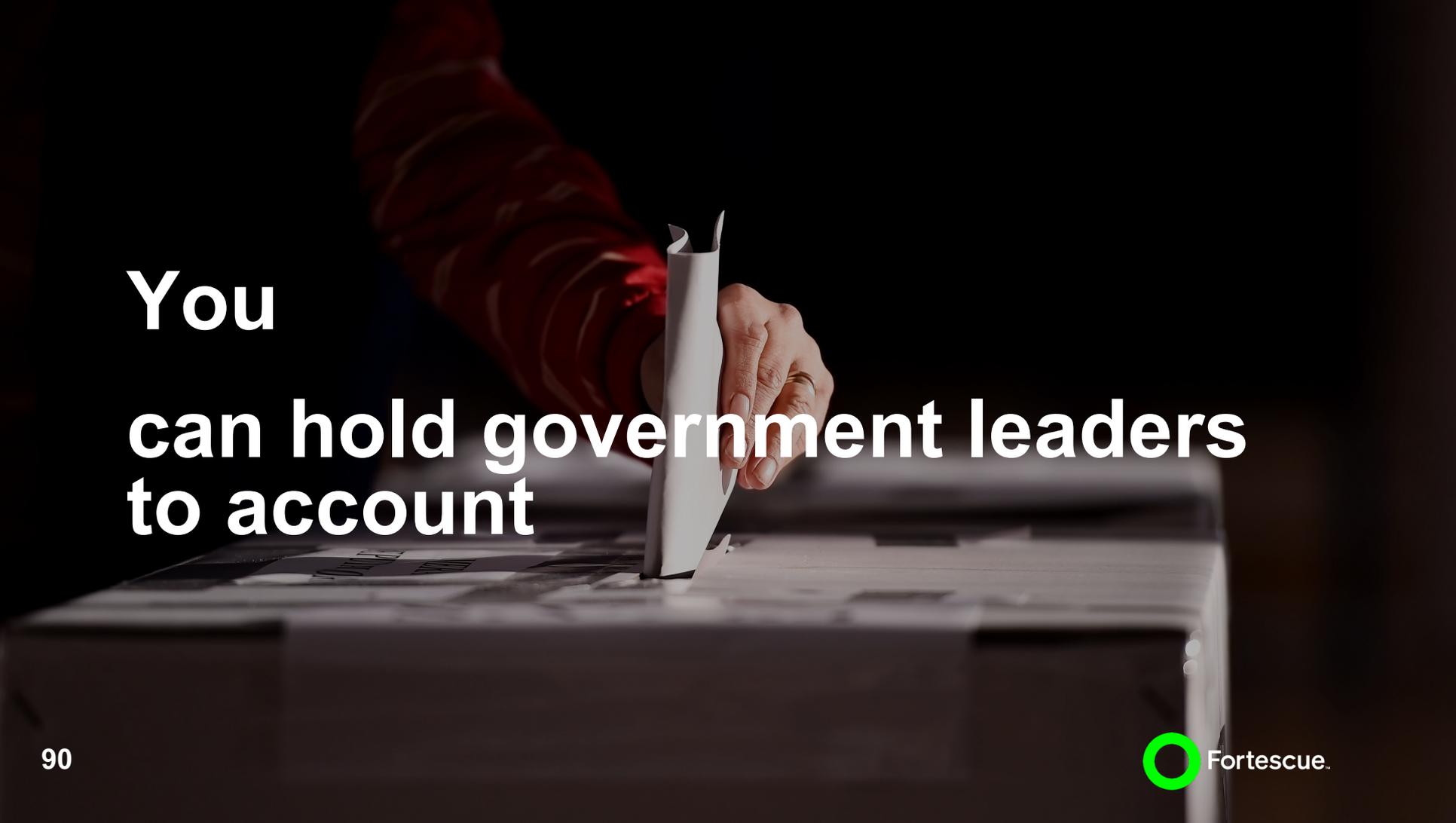
**The industrial world is causing
global warming**



We
are the ones responsible
for the deaths caused by
Lethal Humidity



**You
can hold business leaders
to account**

A close-up photograph of a hand in a red sleeve inserting a white ballot into a ballot box. The background is dark, and the lighting highlights the hand and the ballot. The text is overlaid on the image.

**You
can hold government leaders
to account**



Make us change

Call for this simple agreement

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Professor Steve Sherwood, ARC Centre of Excellence for Climate Extremes, University of New South Wales

“We know heatwaves are getting worse due to global warming. But a lot of people and policymakers aren’t yet aware that rising humidity is supercharging these events. India, the Middle East and China already experience deadly heat and humidity, and the risk is rising rapidly.”

“High humidity at temperatures of just 31 to 35°C and up prevents people from cooling down by sweating, leading to heatstroke and death. But rising humidity is dangerous for other reasons too: it’s fuelling more violent storms and floods, and water vapour is itself a powerful greenhouse gas. We need to act now.”

“Climate change is not reversible. Its impacts are not distant or abstract. The science shows it will lead to the deaths of our fellow human beings, putting at risk hundreds of millions of people if we don’t act quickly. This finding is backed by scientific consensus and the IPCC’s 2023 Synthesis Report.”