

2024

"A year of records -

Is there a need for action?"

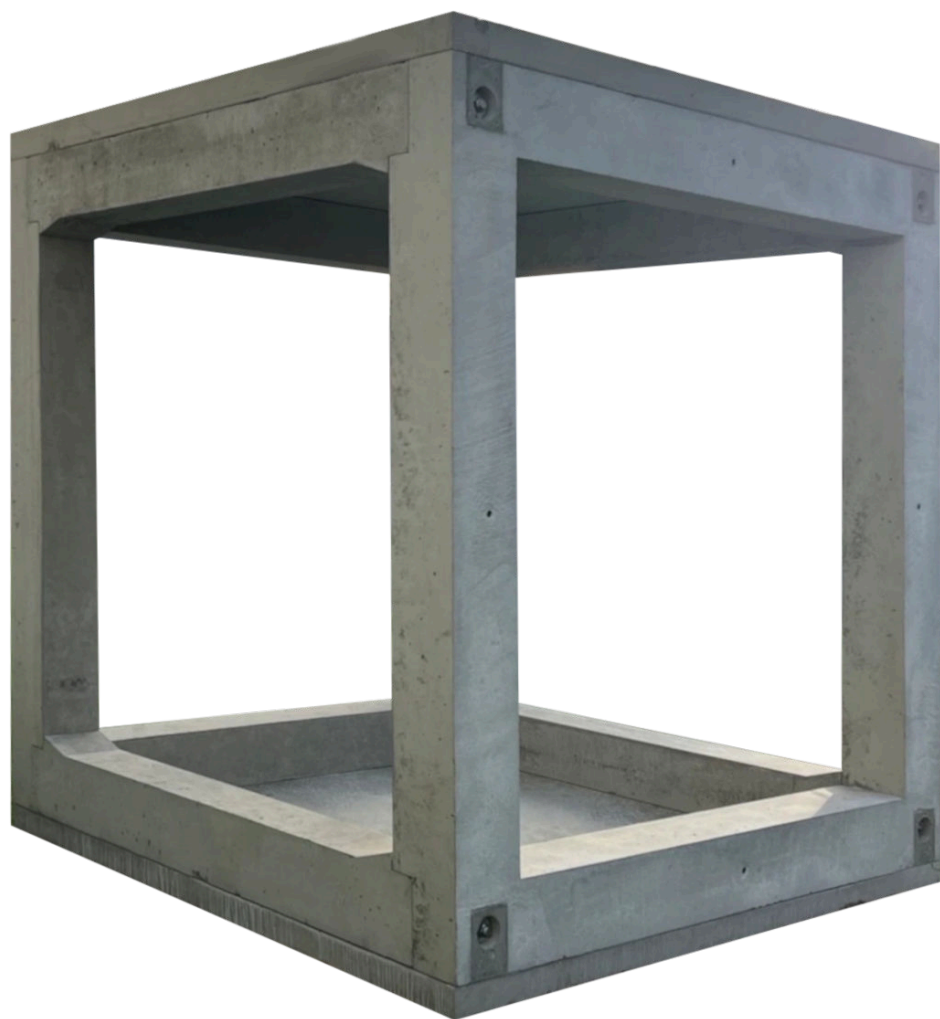
Yes, we have a SOLUTION!

Taming nature with JUMBO BLOCK®?

☞ "Of course not.

☞ But we can mitigate the consequences of extreme weather."

JUMBO BLOCK® does exactly that:



☞ Store water where it is needed

and

☞ Prevent flooding before it occurs.



How can you use it?

Just like that:

- 💡 Turn roads into more than just traffic areas!
- 💡 Utilise huge retention capacities directly under your sealed surfaces!
- 💡 Protect your city from flooding and
- 💡 Prepare flexibly for future weather extremes!

How does the JUMBO BLOCK® system work?

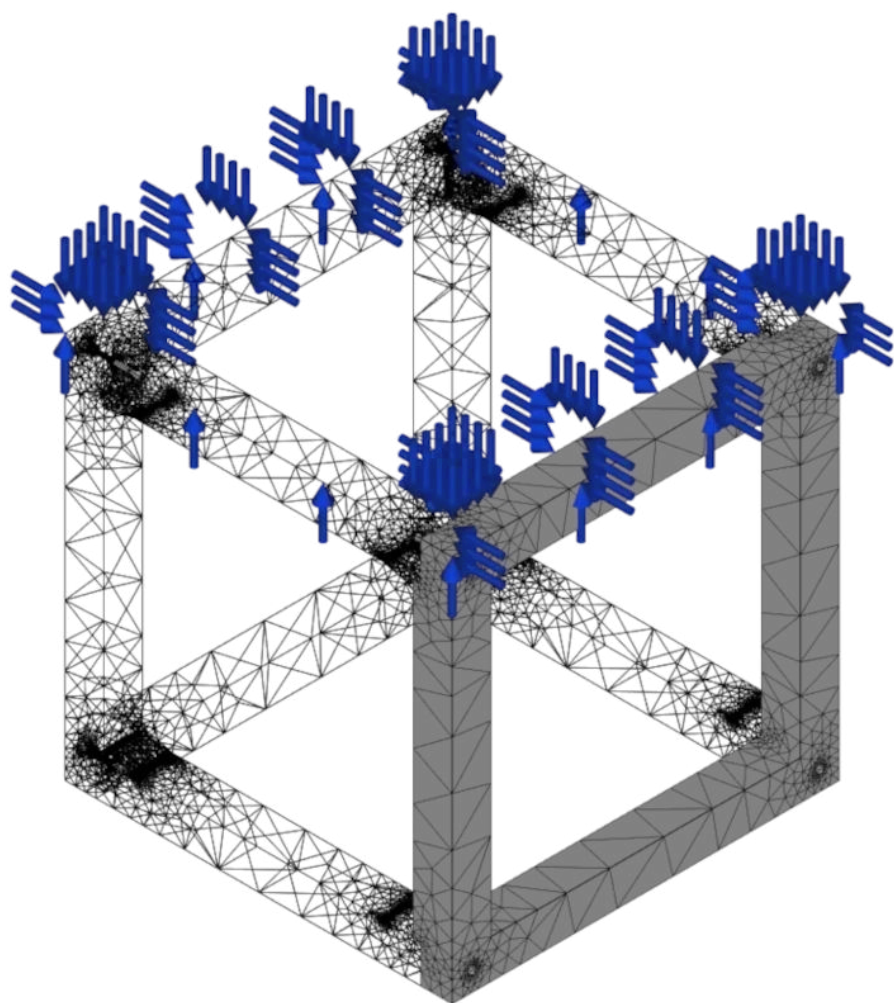


✓ Modular block system

for

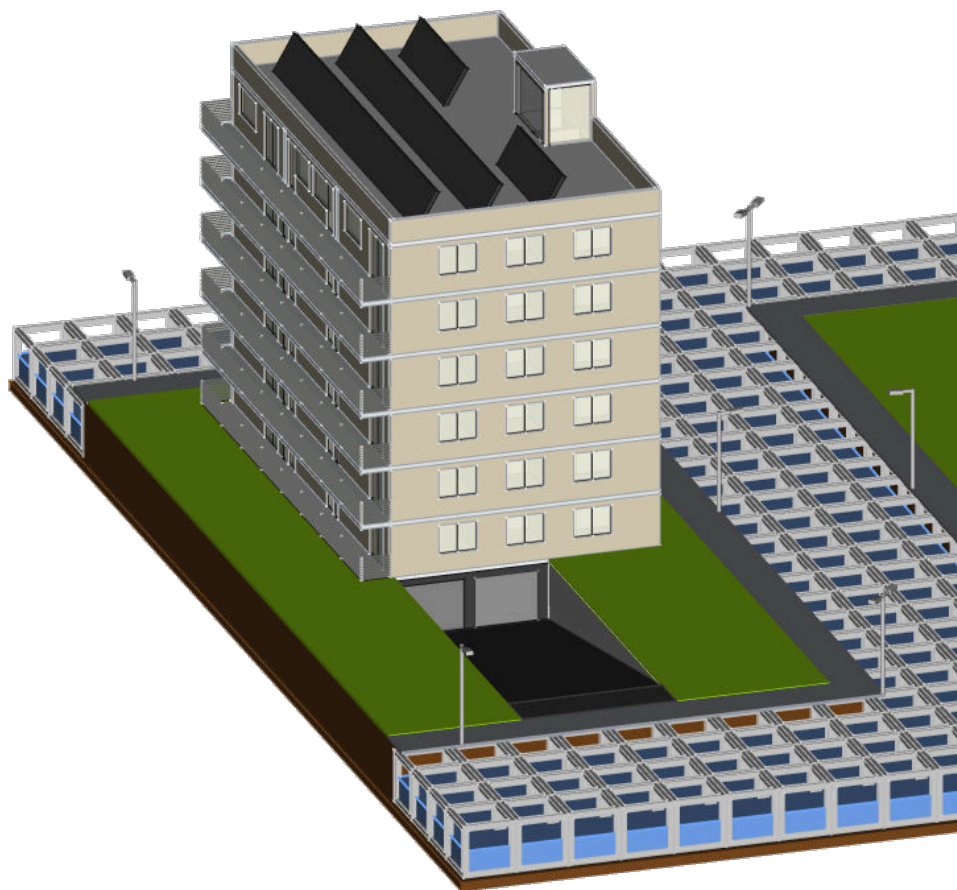
- Rainwater retention
- Water storage
- Land usability

Extreme resilience and versatility



- ✓ Extremely resilient → Carries high loads (F 900) and has optimum pressure distribution
- ✓ Adaptable → In addition to rainwater retention, also suitable for foundations and protective structures

„Safe cities despite heavy rain - the solution lies beneath our roads“



- ✓ Prevents flooding and protects infrastructure
- ✓ Modular, durable & versatile in use

Seeing and understanding

1. YouTube: [Link to the film](#)
The biggest solution against
Urban flooding

2. permanent exhibition
BBW Weißensee, Thuringia:
[Make an appointment,](#)
[marvel](#)



Still tight?

✓ **Highly resistant sealing**

- **Protection against water, chemicals & mechanical stress**

✓ **Modern MS polymer technology - flexible, durable & environmentally friendly**

✓ **Extremely resistant - Resistant to fertilisers, waste water, acids & microorganisms**

Completely clean?

✓ „Of course!“

With **AQUATO** for water & wastewater technology:

Sales, distribution & technical expertise

→ Everything from a single source

✓ Sustainable & efficient solutions

✓ Customised water and drainage systems

Thank you for your interest

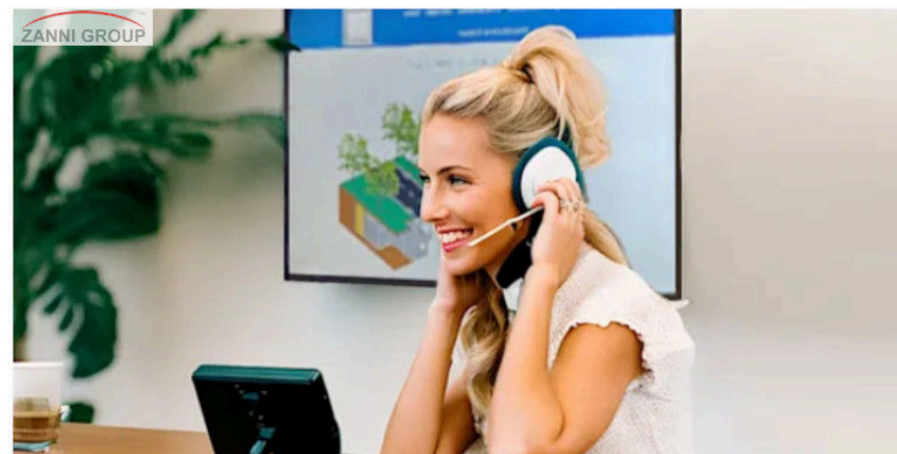


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Sales and distribution



Production

Civil engineering and installation



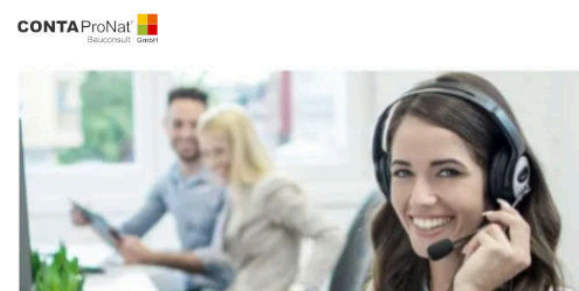
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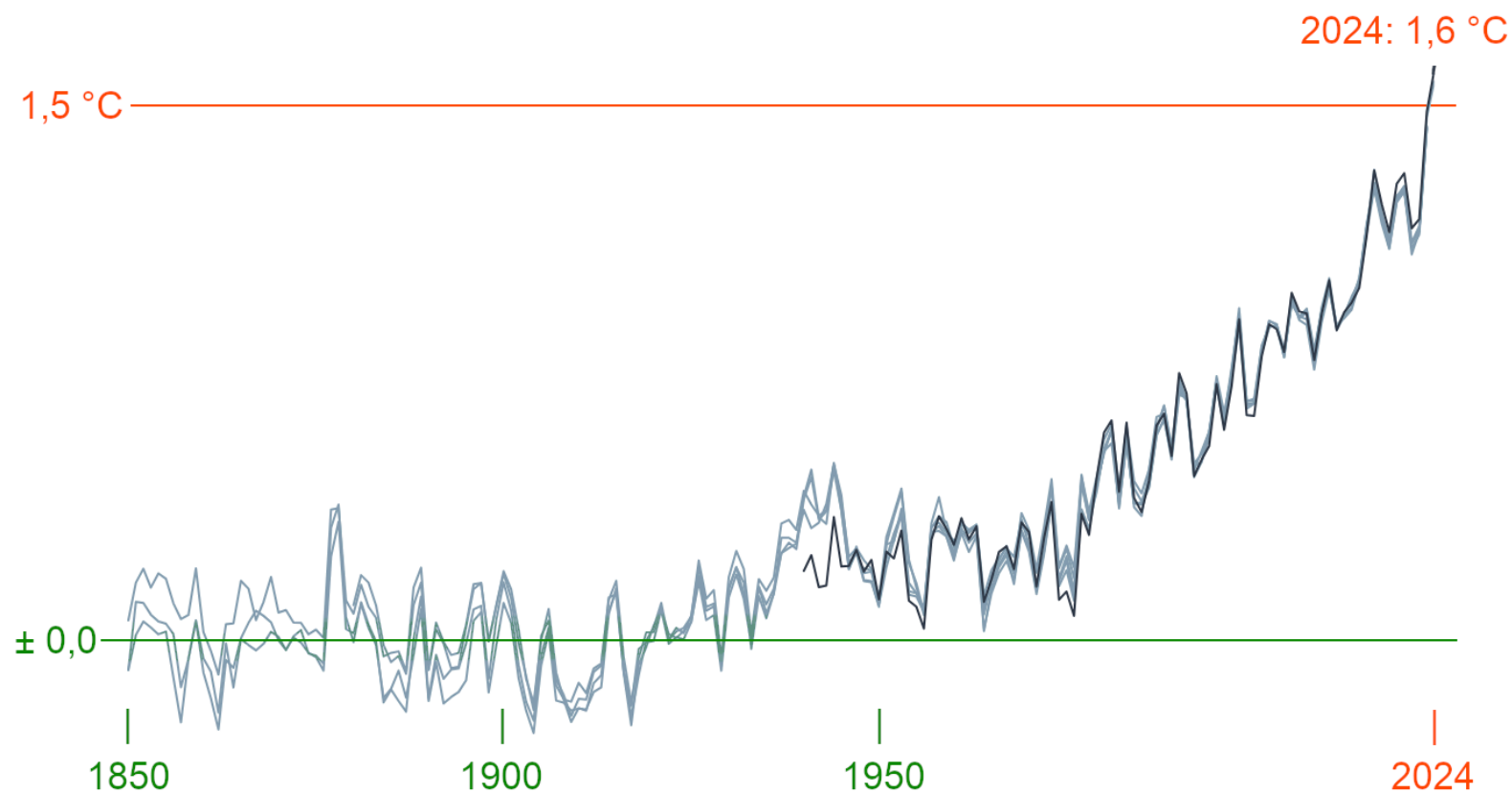
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"A year of records -

The reason for our efforts!"

It got a little warmer!



Annual deviation from the mean 1850-1900

Source: Copernicus Global Climate Highlights 2024

Data

Dark: Copernicus ERA5

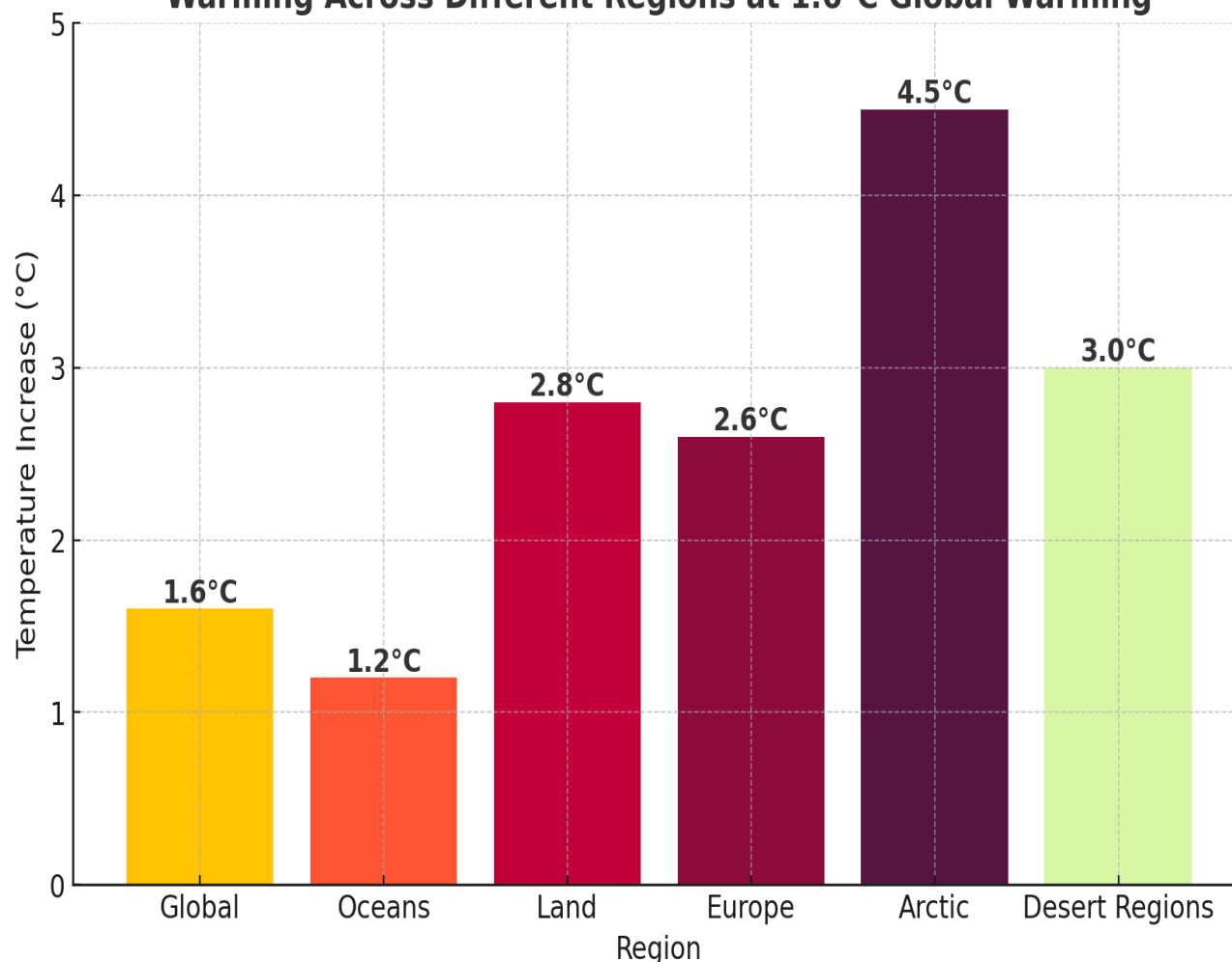
Bright: JRA-3Q, GISTEMPv4, NOAA GlobalTempv6, Berkeley Earth, HadCRUT5

Source: Copernicus

The Copernicus Climate Change Service (C3S) is part of the EU space and earth observation programme Copernicus, whose five other services deal with atmosphere, emergency, land, sea and security. It is operated primarily by the European Centre for Medium-Range Weather Forecasts (ECMWF) and supported by the European Space Agency (ESA), among others.

Everywhere ?

Warming Across Different Regions at 1.6°C Global Warming



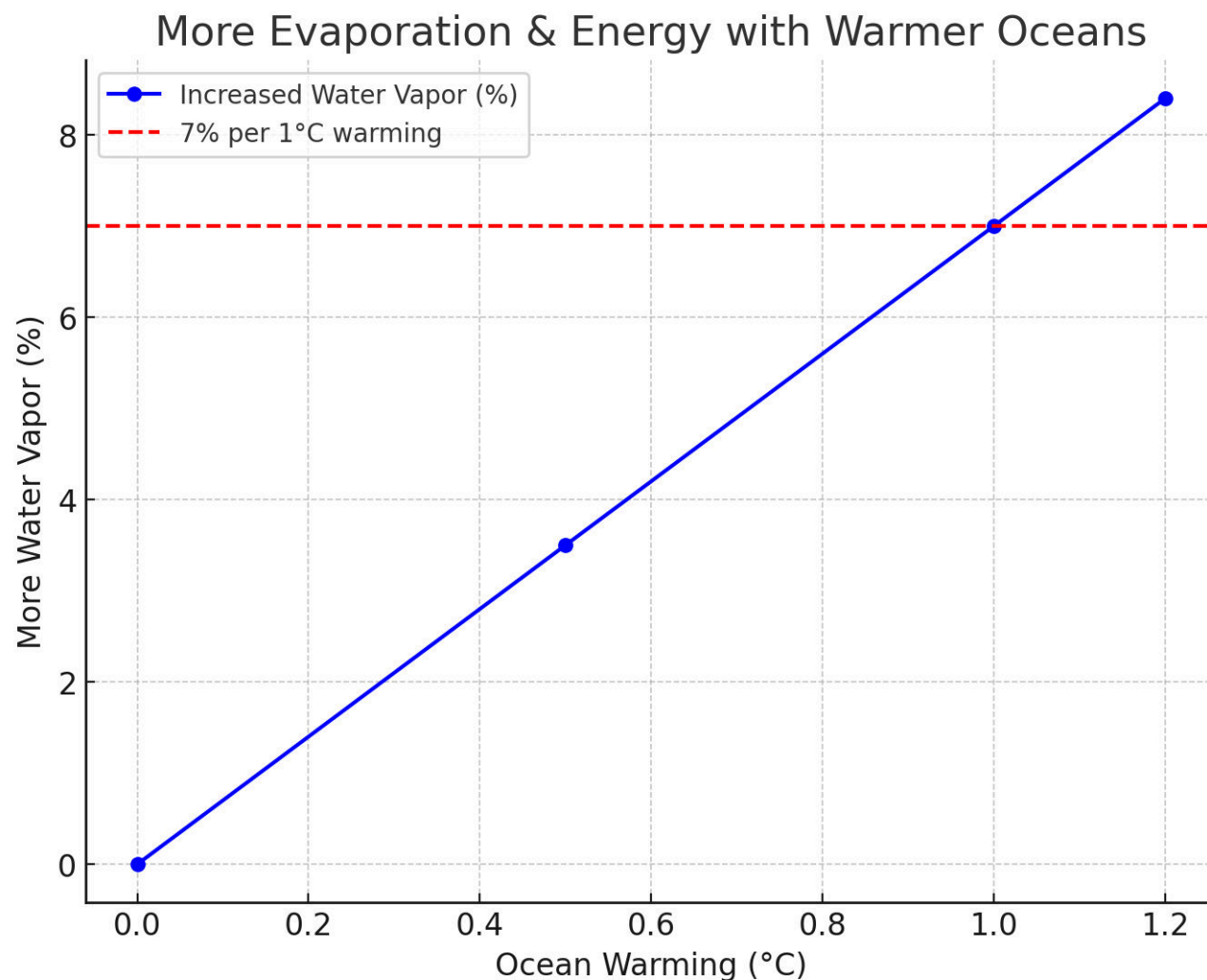
Meaning

Oceans are heat reservoirs → The global average temperature is dampened.

Lower heat capacity of the soil → Land surfaces do not store heat as well as water and release it more quickly.

Feedback effects (e.g. due to ice melting, reduced vegetation) → Dry areas warm up more than humid regions.

Ocean warming and evaporation



Meaning

Current global evaporation
approx. 505,000 km³ of water per year
in the ocean and on land

+ 1°C means + 7% water vapour

corresponds to + 35,350 km³ of water
in the atmosphere

is equivalent to 14 billion Olympic
swimming pools full of water or
5x the total amount of water in Lake
Constance!

Oops, something's coming!

☞ More moisture

→ More extreme precipitation

☞ More energy

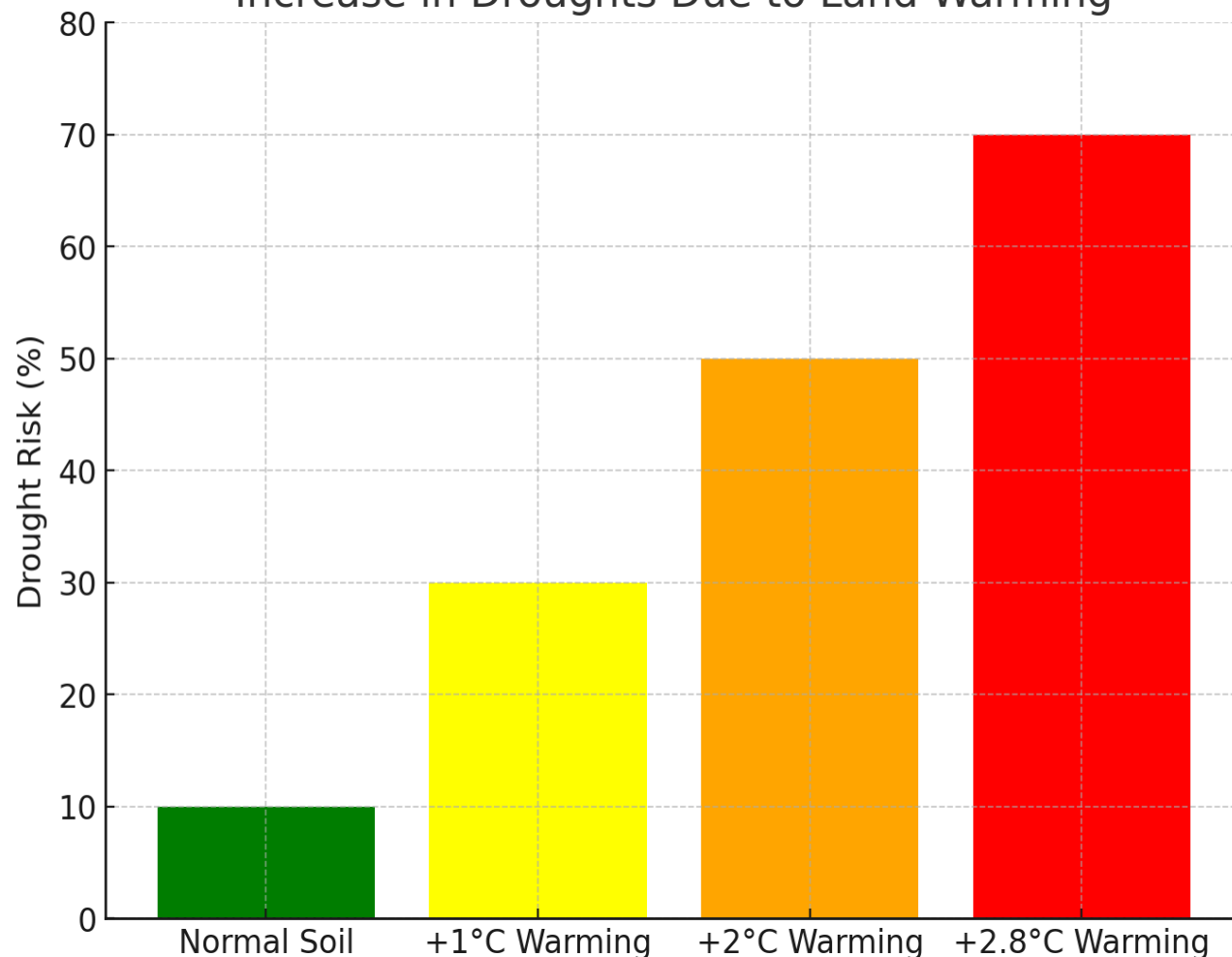
→ More and stronger storms

✓ Result: weather extremes

→ Heavy rain, floods, droughts

Land warming and consequences

Increase in Droughts Due to Land Warming



Meaning

A hot day $>35^{\circ}\text{C}$ evaporates approx. 4 mm of water per day.

With $+2.8^{\circ}\text{C}$ warming, $\sim 12\%$ more water evaporates \rightarrow 4.5 mm per day or 135 mm per month

corresponds to 15 mm less soil moisture

\rightarrow Soils dry out faster, plants wither, periods of drought are extended by 20-40%

\rightarrow Crop losses and water shortages

Oops, something's coming!

☞ More heatwaves and extreme temperatures

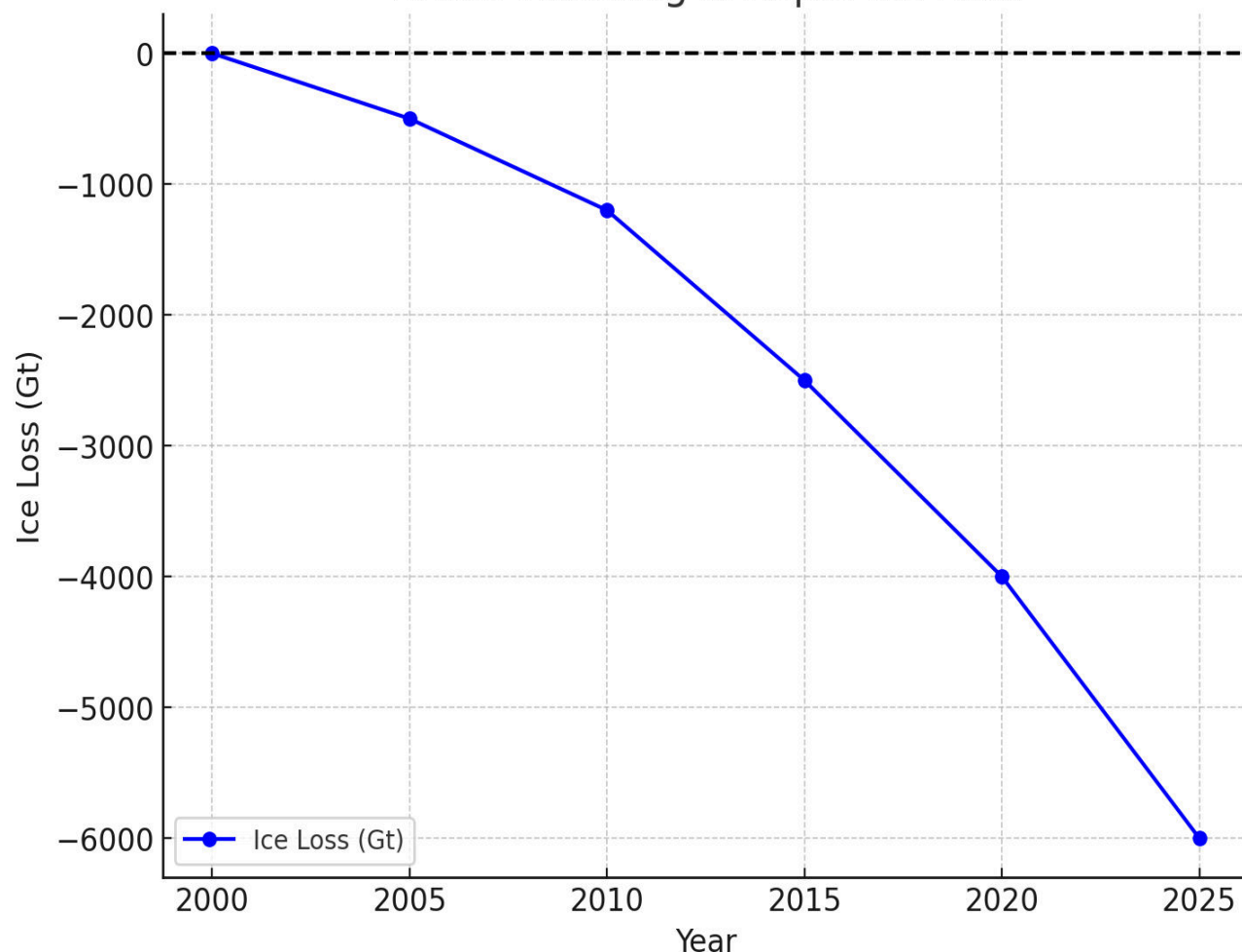
☞ Desertification is spreading

☞ Harvests dry out more quickly

☞ Water scarcity on the rise

Arktische Erwärmung und Eisschmelze

Arctic Warming & Rapid Ice Loss



Meaning

Arctic ice is currently losing around 150 billion tonnes per year.

Warming by +4.5°C accelerates ice loss by a factor of 3-4 → 450-600 billion tonnes per year.

That's enough to put Germany about 2 metres under water!

Darker ocean surfaces (because ice is melting) absorb more solar heat, which further accelerates warming.

Oops, something's coming!

☞ Rising sea level

→ Coastal towns under threat

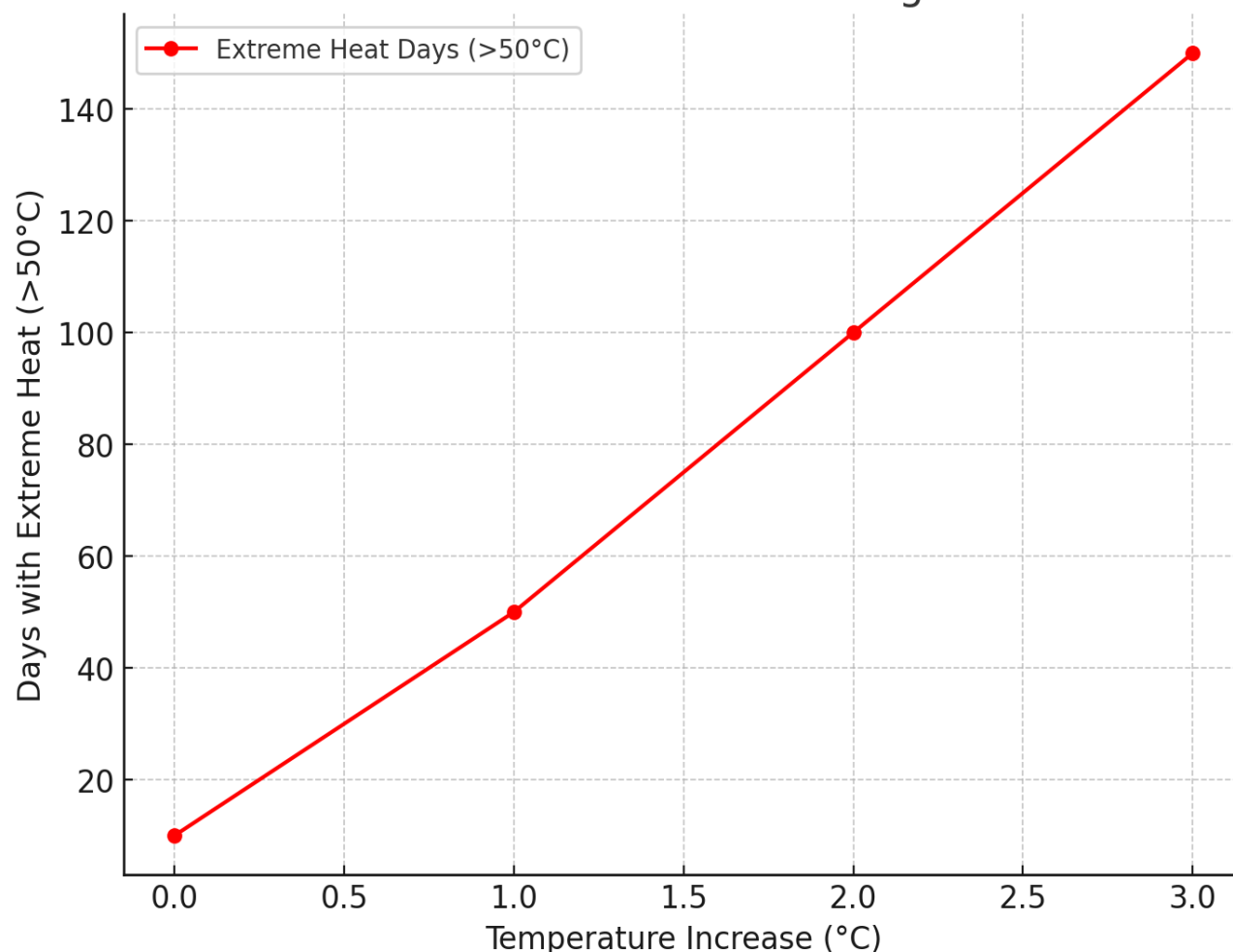
☞ Stronger storms due to changing air currents

☞ Release of methane from permafrost

⇒ Rising temperatures

Desert regions and extreme heat

Extreme Heat in Desert Regions



Meaning

The Sahara currently experiences 40-50 extreme heat days (>45°C) per year.

With +3.0°C warming, the number rises to 100-150 days per year!

Temperatures of over 55°C are regularly reached in North Africa and the Middle East, for example.

More than 1 billion people in these and other regions will suffer from water shortages.

Oops, something's coming!

☞ Extreme heatwaves

→ Uninhabitable regions

☞ Crop failures

→ Hunger crises & migration

☞ Water shortage

→ Growing social tensions, war

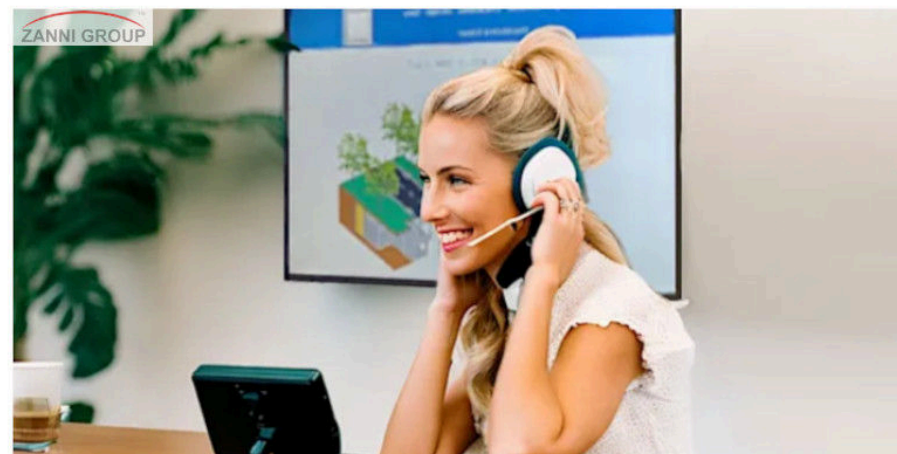
Thank you for sticking with it!



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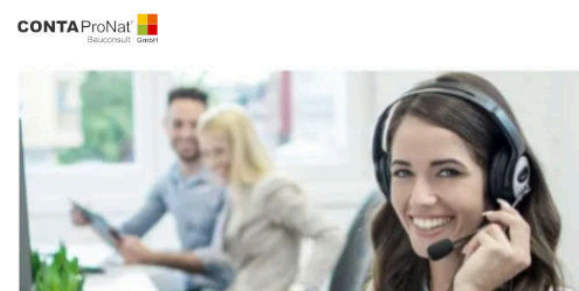
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