

TT Club Loss Prevention

Future Risks – Climate Resilience

2024

TT CLUB
IS MANAGED
BY **THOMAS
MILLER**



Agenda

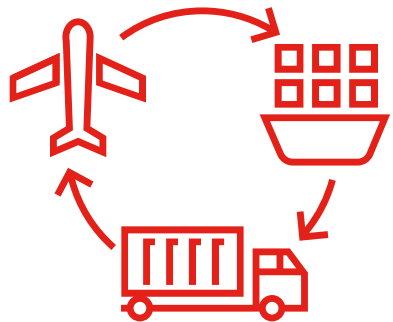
- **TT Club and loss prevention**
- **Climate challenges**
- **Climate impacts**
- **Climate resilience**



TT Club introduction



TT Club overview



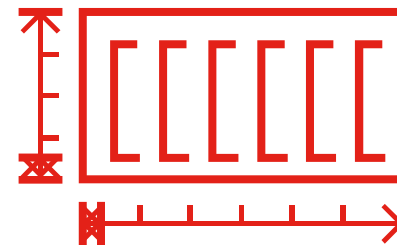
TT stands for
'through transport'



Club denotes
our mutual status



Comprehensive cover



Tailored to your needs

“

**The TT Club's mission is to make the
global transport and logistics industry
safer, more secure and more sustainable**

”

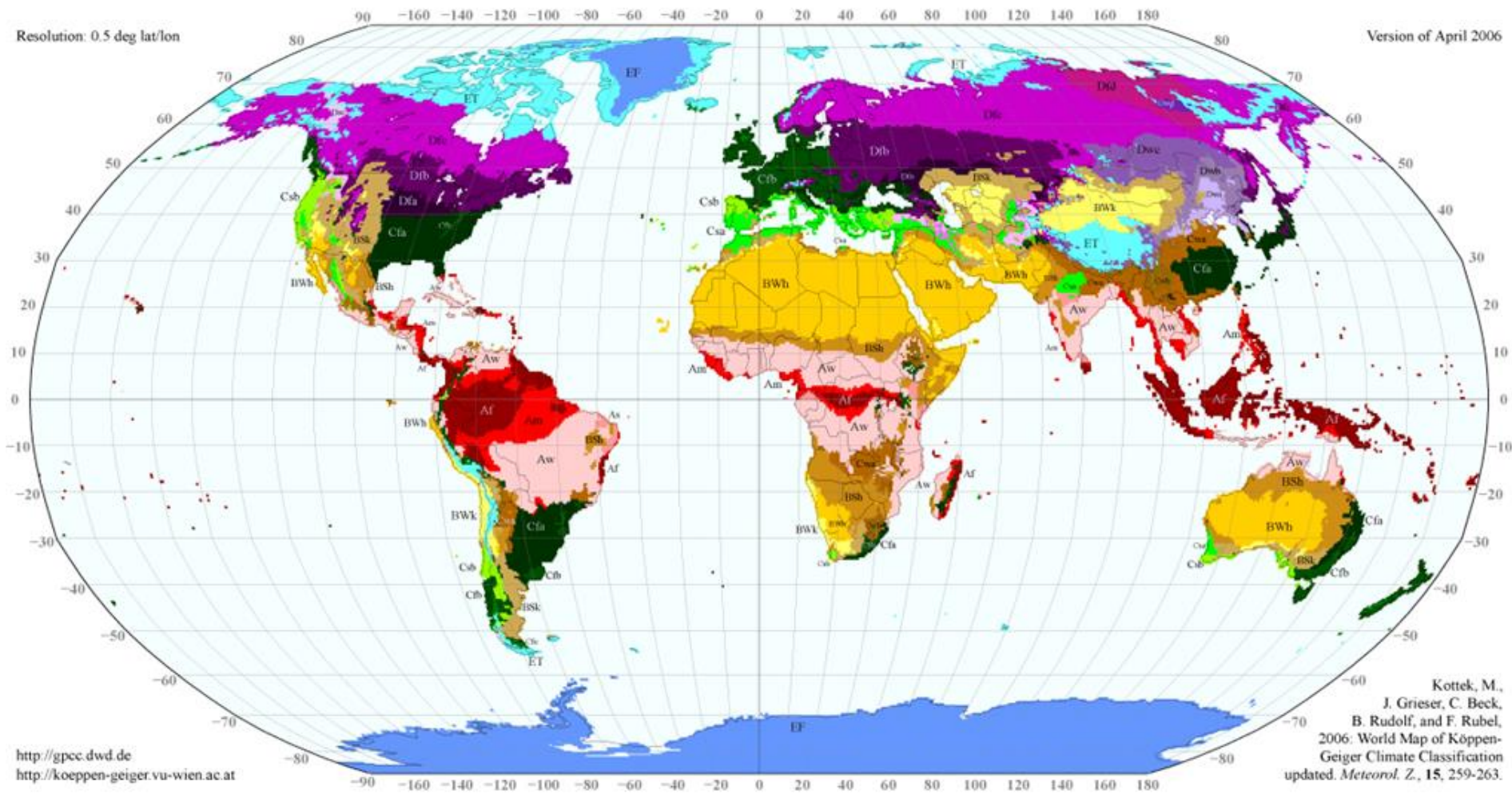
Climate challenges

Climate Change Adaptation



Introduction

- Climate change is the long-term shift in temperatures and weather patterns.
- Such shifts can be natural, due to changes in the sun's activity or large volcanic eruptions.
- But since the 1800s, human activities have been the main driver of climate change, primarily due to the burning of fossil fuels like coal, oil and gas.



Exposure

“1.8 billion people, or 23% of the world population, are directly exposed to flood depths greater than 0.15m in a 1-in100-year flood event”

[United Nations Office for Disaster Risk Reduction]



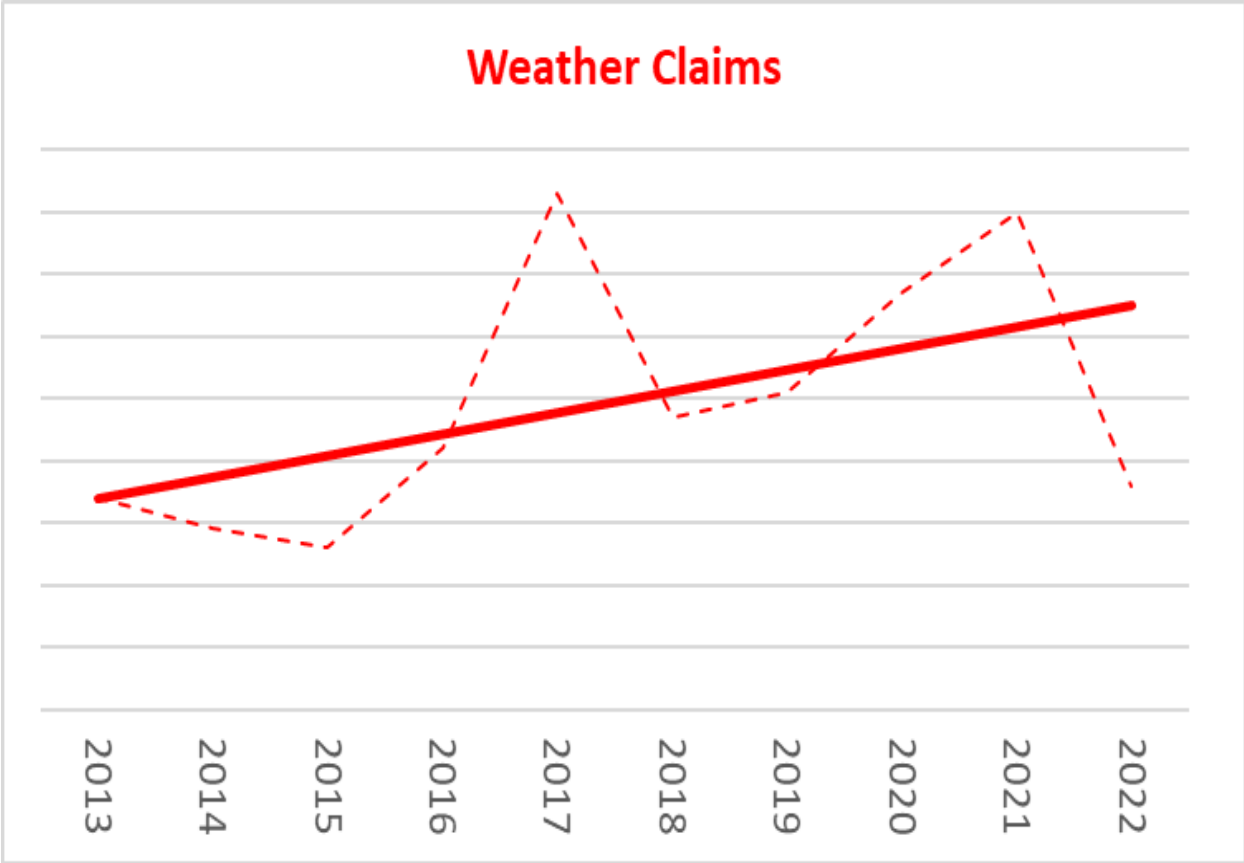
Data sound bites

- **2023 record hottest year.**
- **Global natural catastrophe losses exceed \$100b for 4th year in a row.**
Ref; SwissRe
- **SwissRe estimating insured losses could double in next 10 years.**
- **Record breaking hail storms in the highest-ever insured loss in Italy.**
- **August costliest-ever event in Slovenia from flood.**

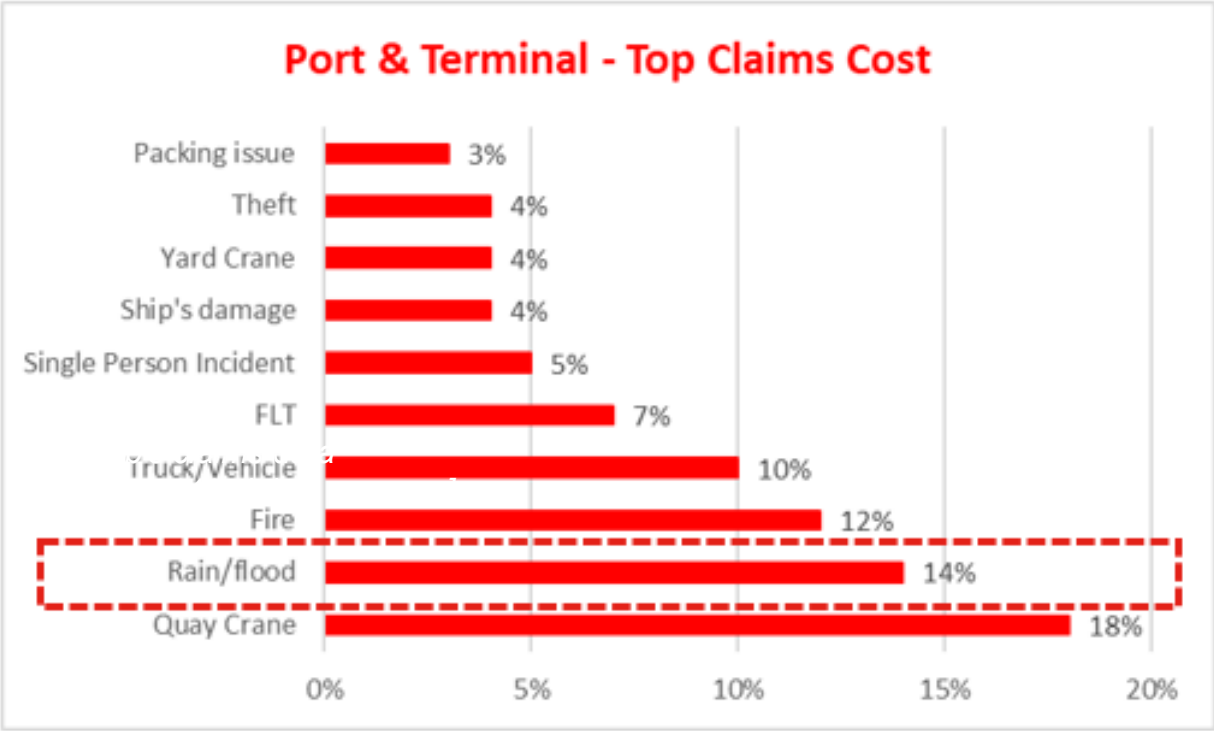


Climate related claims

Weather Claims

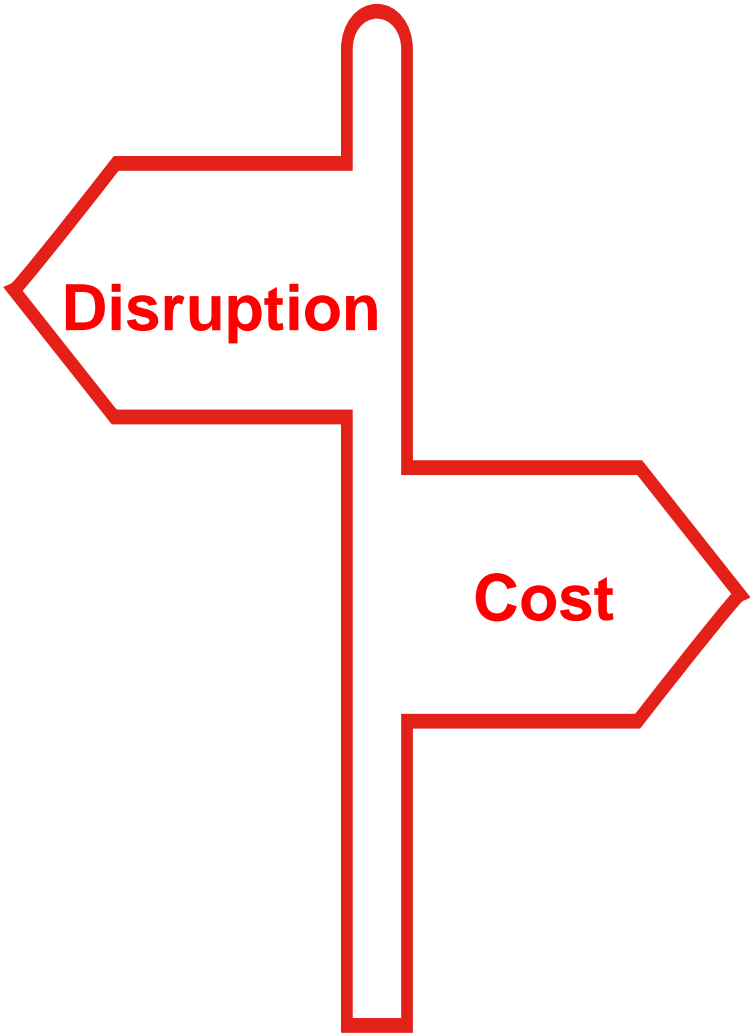


Port & Terminal - Top Claims Cost



Data sound bites

Location of claims



Climate impact

Climate Impact – Marine Operations

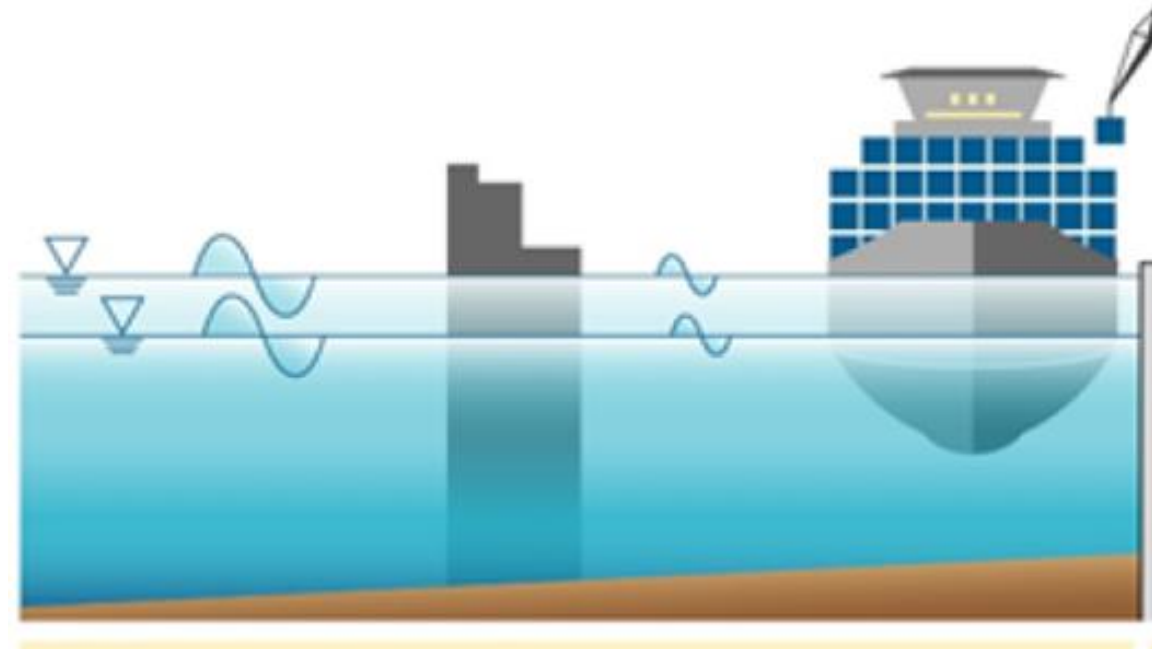
Climate variables;

- Air temperature
- Water temperature
- Rainfall intensity
- Mean sea level
- High winds / storms
- Water chemistry

Navigation zone

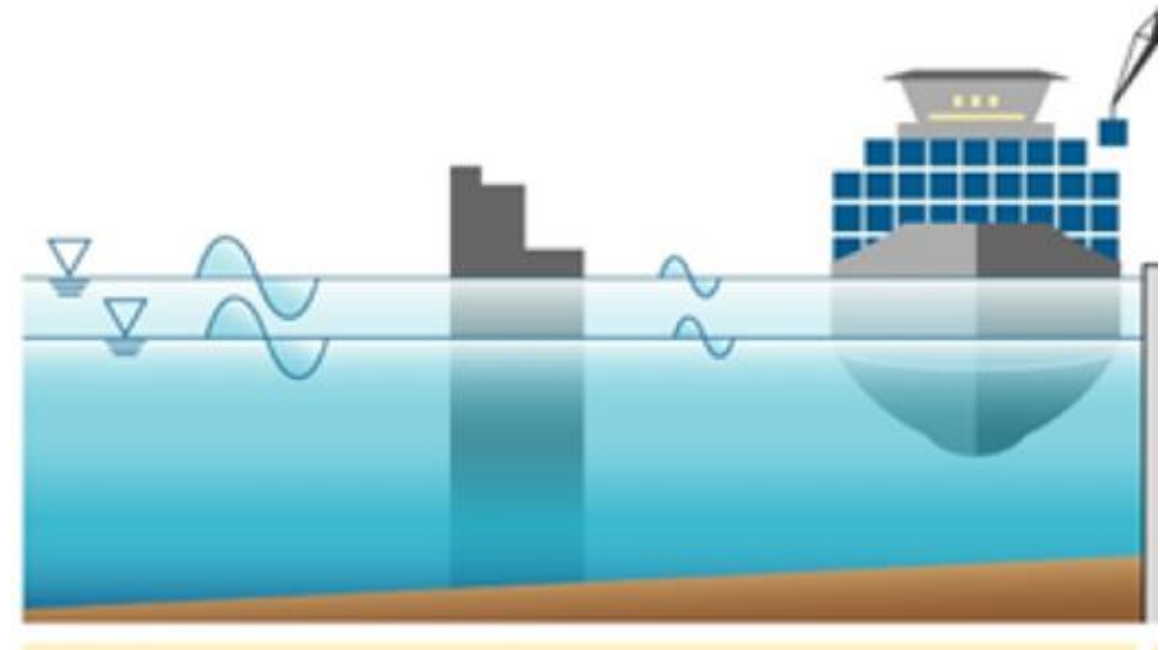
Protective
infrastructure

Manoeuvre and
berthing area



Climate impacts;

- Ice / Snow / Hail
- Water depth, currents & sediment
- Overtopping
- Scour
- Wave load
- Wind load



Climate Impact – Port Operations

Climate variables;

- Air temperature
- Water temperature
- Rainfall intensity
- Mean sea level
- High winds / storms



Climate Impact – Port Operations

Climate impacts;

- Excess heat / humidity
- Ice or icing
- Snow or hail
- Surface water flooding
- Overtopping
- Wind load

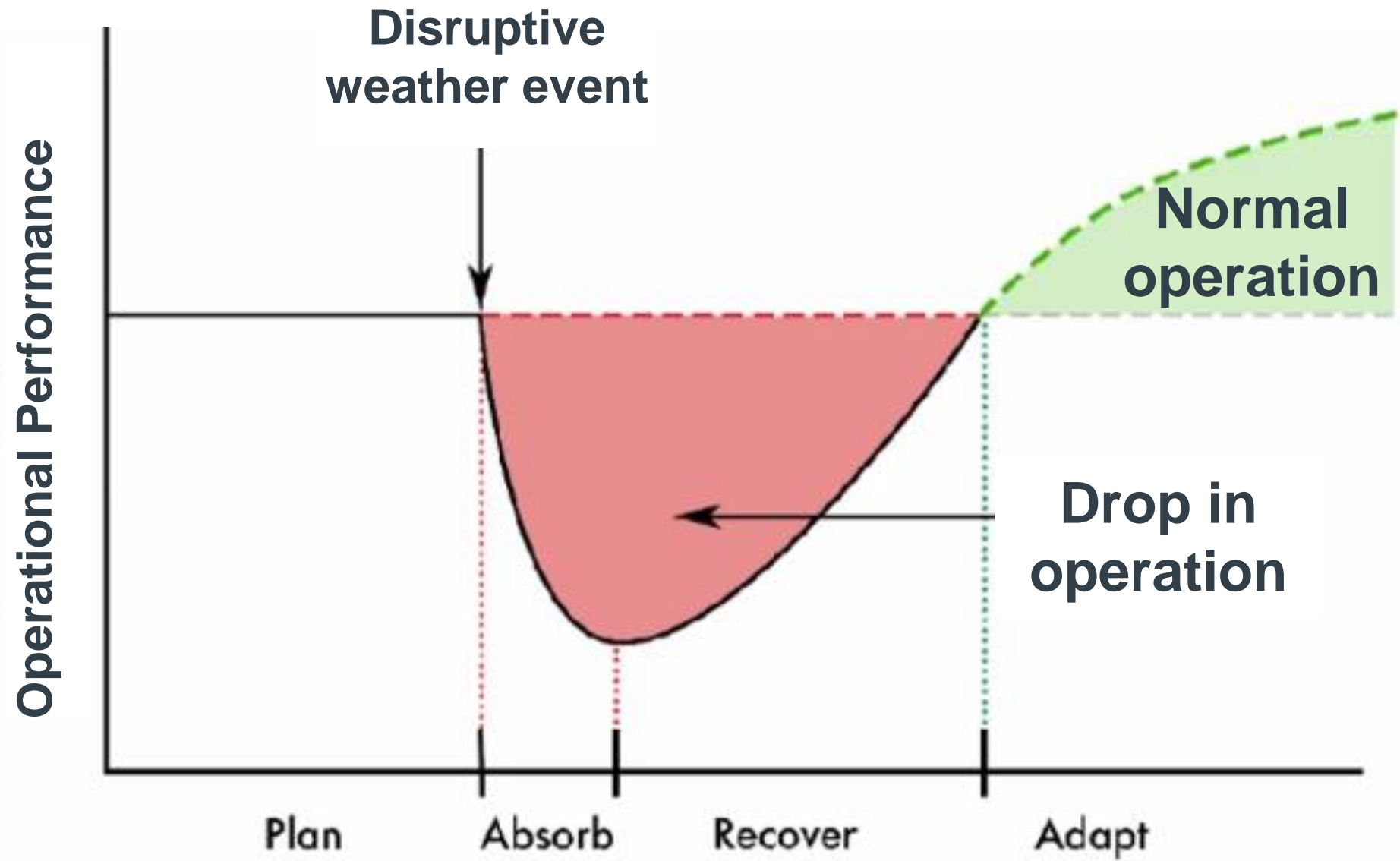


Climate Impact

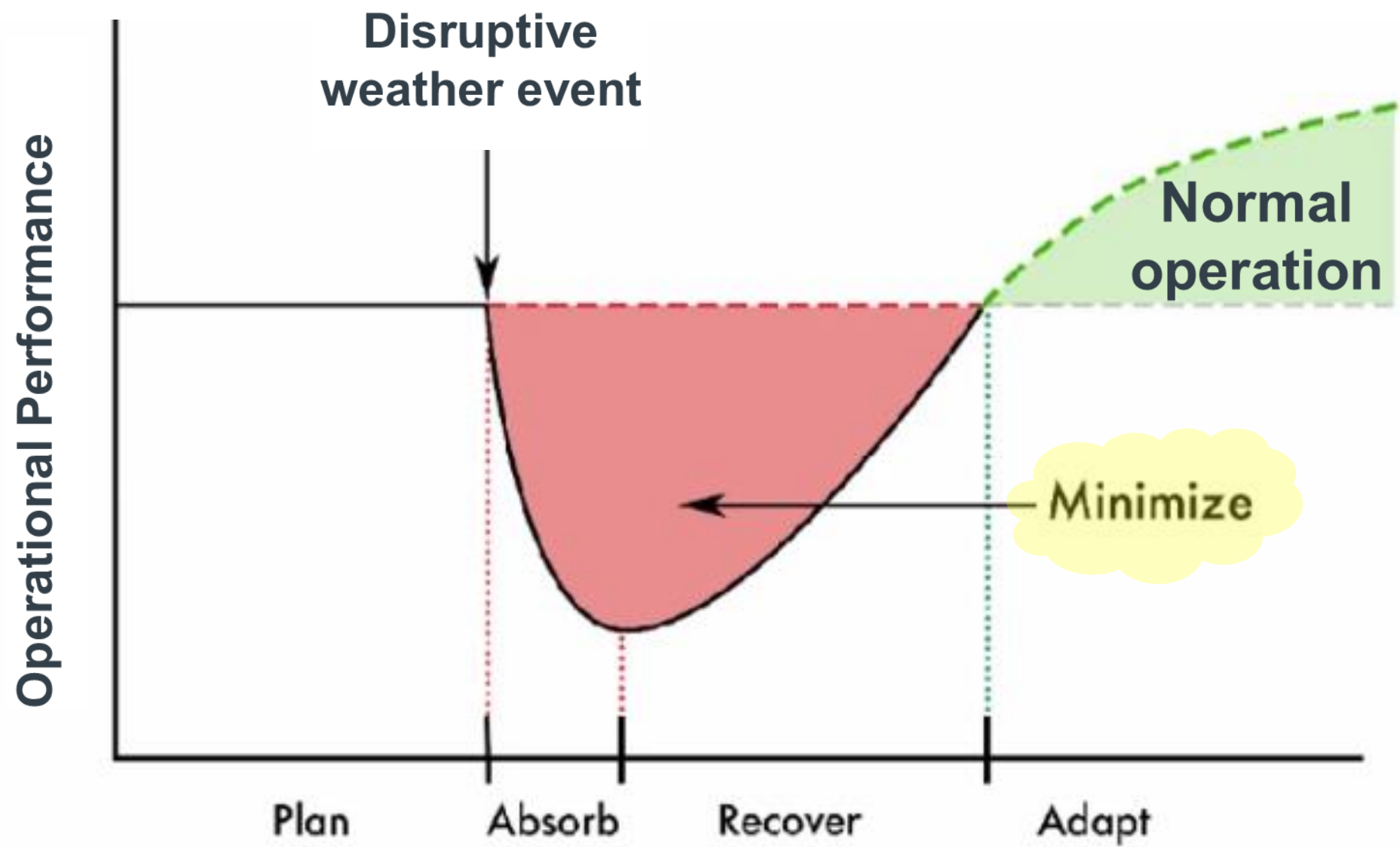


Climate Resilience

Climate Resilience



Climate Resilience



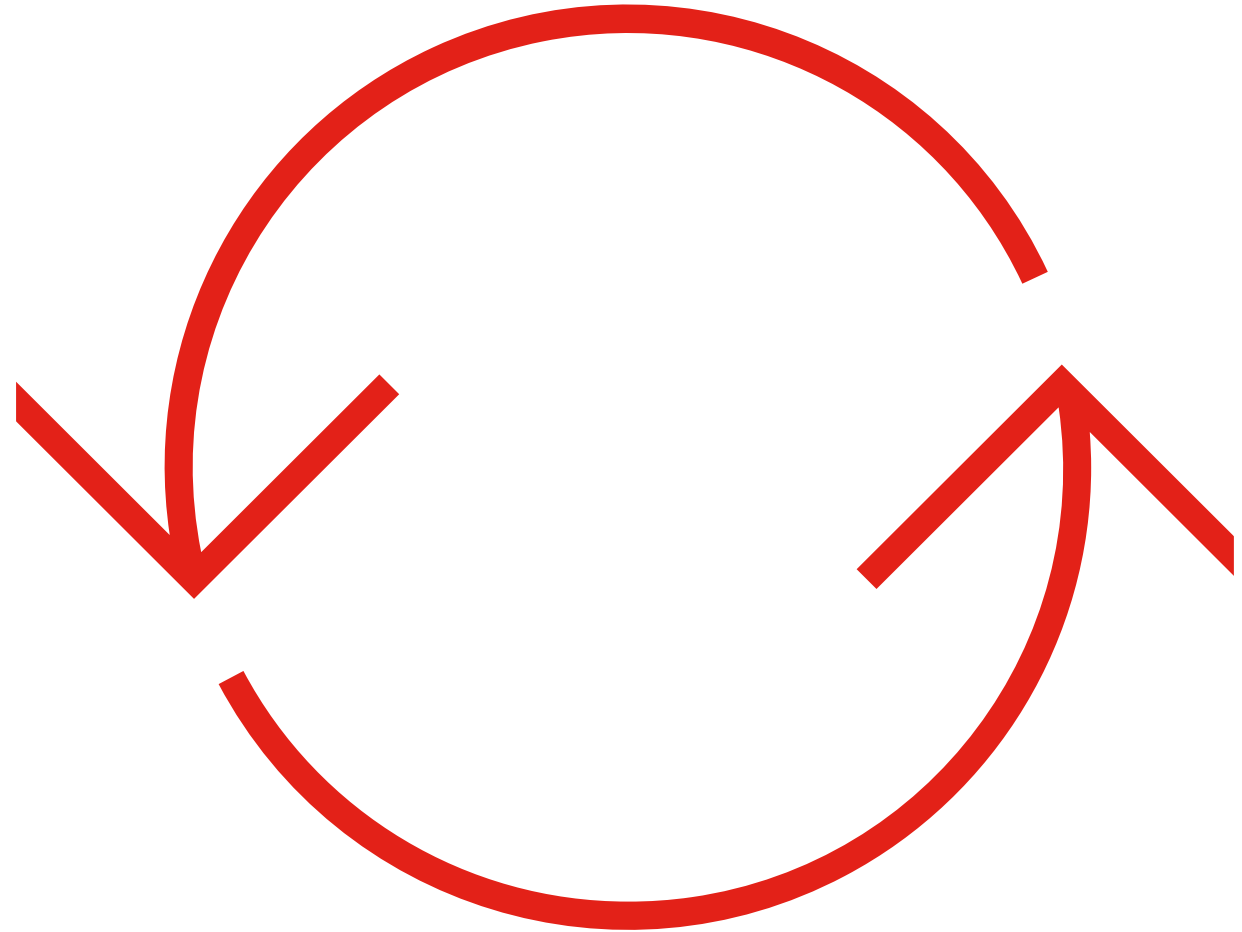
Climate Resilience

- ISO has introduced amendments to their Management System Standards;
- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO/IEC 27001:2022
- Requires organisations to consider Climate Change, and its effects and risks.



Climate Resilience

- **Avoiding maladaptation**
- **Short-term vs. long-term measures**
- **Accommodate uncertainty in design**
- **Understanding when to act?**
- **Continued review**



Thank you Any questions?

ttclub.com

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