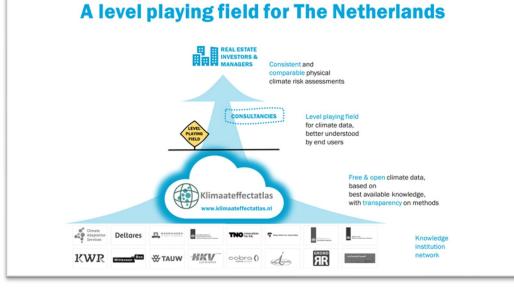
### In the spotlight of EU regulations

1. World Economic Forum's Global Risks Report 2023 puts climate change on the top of the list (again)

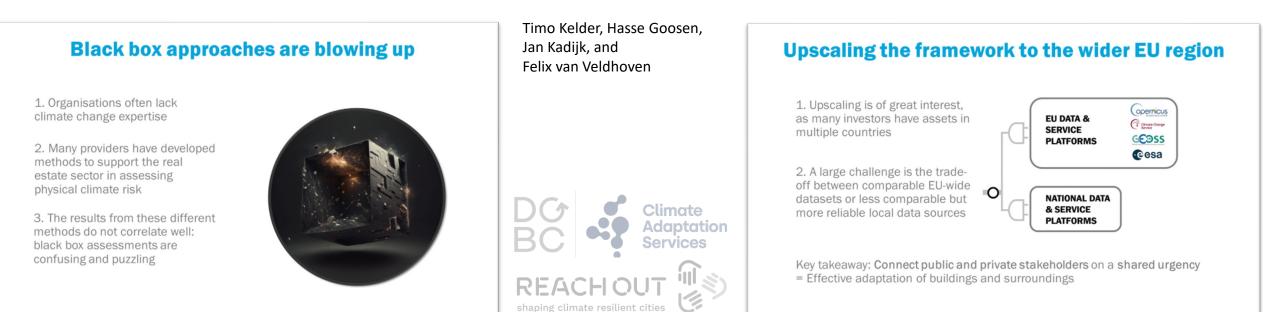
2. Private funding remains vastly below the scale needed

3. EU strengthens regulations for companies: climate risk analyses become mandatory





### Opening the 'black-box' of climate risk assessments for real estate portfolios: lessons from The Netherlands





# In the spotlight of EU regulations

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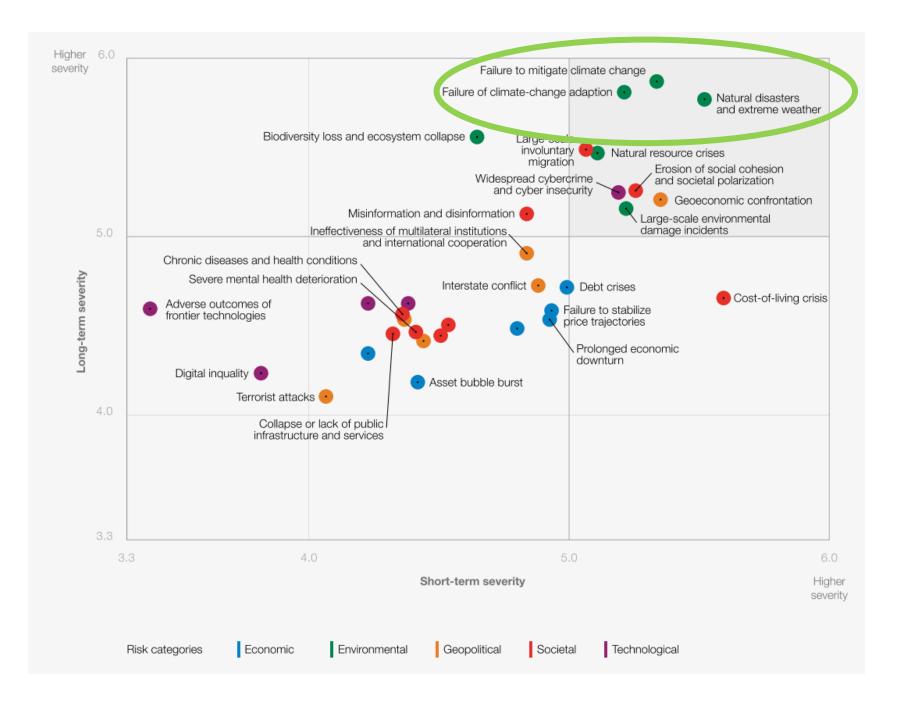


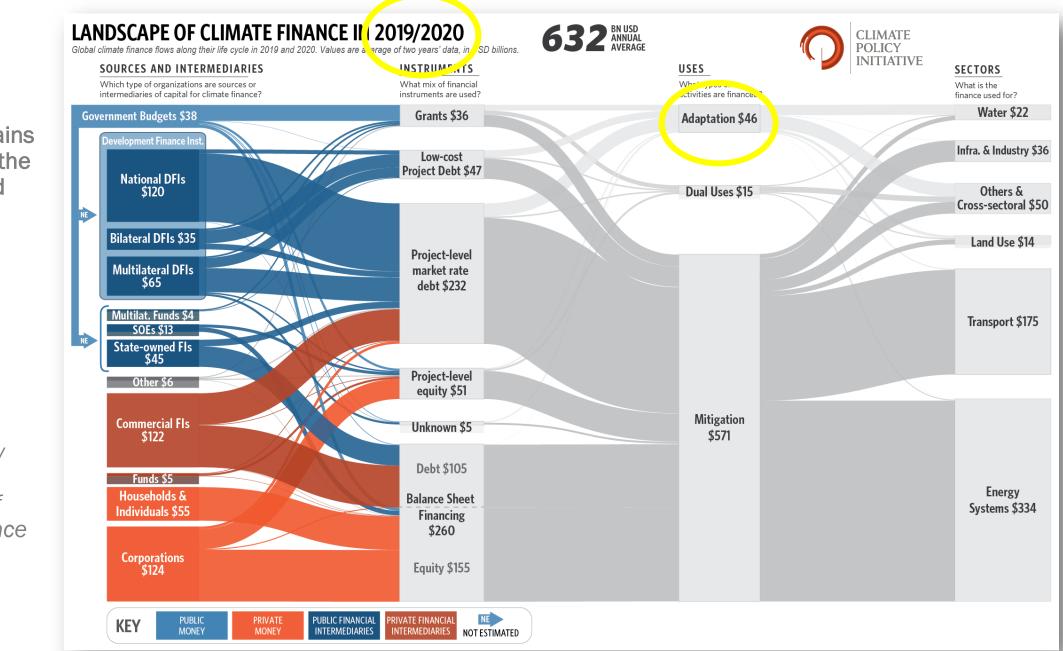


1. Climate action failure dominates global risks in the next decade



World Economic Forum's Global Risks Report 2023 puts climate change on the top of the list (again)





### 2. Private funding remains vastly below the scale needed

Climate Policy Initiative, Landscape of Climate Finance (2021) 2. Private funding remains vastly below the scale needed

Climate Policy Initiative, Landscape of Climate Finance (2021)

# 632 BN USD ANNUAL AVERAGE **KEY FINDINGS** An increase of at least 590% in annual climate finance is required to meet 1. internationally agreed climate objectives by 2030. 2. Adaptation finance continues to lag. Total adaptation finance remains far below the scale necessary to respond to existing and future climate change. 3. Nearly all adaptation finance tracked was funded by public actors.



3. EU strengthens regulations for companies: climate risk analyses become mandatory

Since 2022, investors and companies are required to disclose whether a fund, investment, financial product or activity is sustainable

Starting in 2024, all large companies and all listed companies will be obliged to report on sustainability policies and performance.

Since 2021, there is an obligation for all asset managers to disclose information on ESG policies

Mandatory climate risk disclosure from April 2022 for large organizations and financial institutions in the UK, in line with the TCFD



Taxonomy Regulation (EU Taxonomie)



Corporate Sustainability Reporting Directive (CSRD)



Sustainable Finance Disclosure Regulation (SFDR)



Task Force on Climate-Related Financial Disclosures (TCFD)

# Black box approaches are blowing up

1. Organisations often lack climate change expertise

2 A large number of providers have developed different methods to support the real estate sector in assessing physical climate risk

3. The results from these different methods do not correlate well: black box assessments are confusing and puzzling



Climate

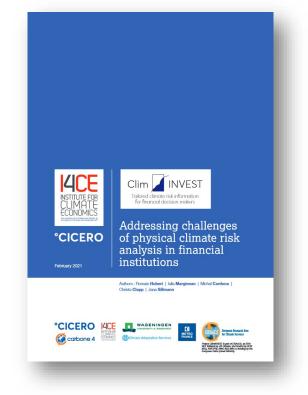
Services

Adaptation

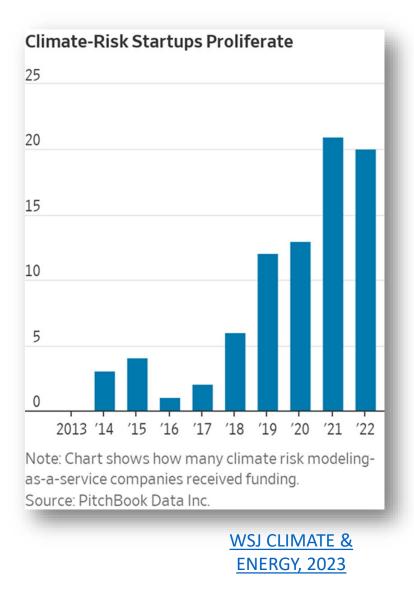


<u>ClimINVEST project</u>: a 3-year collaboration between European climate experts and financial institutions

- Financial institutions underestimate the climate problem.
- There is a need for better data that is openly accessible and transparent.
- There is a 'black box' and institutions do not have the expertise to assess the quality of climate data.



The number of climate risk startups has increased enormously over recent years



"Black box" approaches limit confidence and the ability to improve, compare and combine results.





Our Suggested Approach >

#### CLIMATE-RELATED RISKS CAN BE CATEGORIZED AS PHYSICAL OR TRANSITION

#### PHYSICAL RISK

providers and discovered highly varied results. The purpose

of this report is two-fold: to provide real estate investors

with a framework for assessing physical climate risk tools

and to caution against taking a one-size-fits-all approach.

Physical risk is defined as potential loss caused by climate-related events. These can be acute or chronic

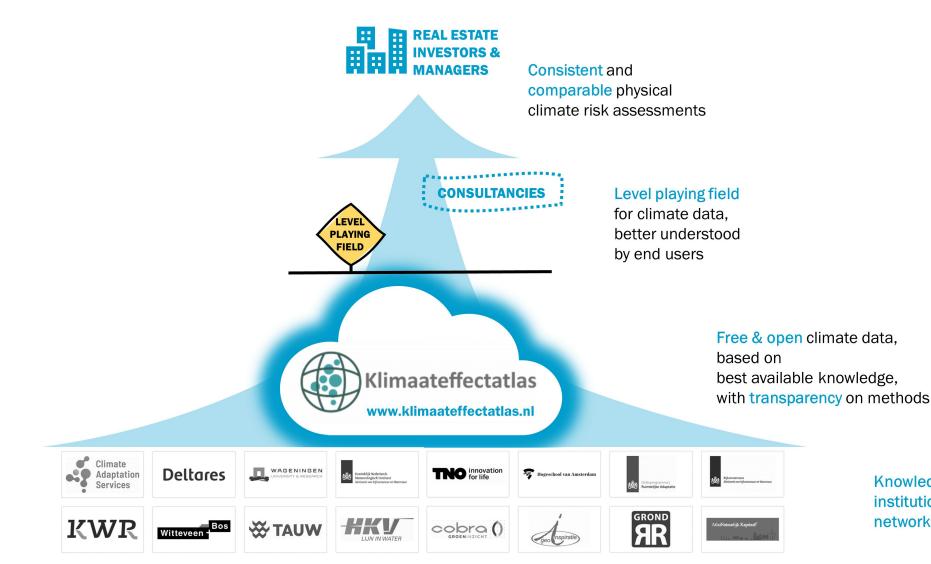
#### TRANSITION RISK

Transition risk encompasses the risks stemming from the need to decarbonize in order to minimize global warming and reduce physical risks.

This material was developed by the Morgan Stanley Investment Management Global Real Assets Team and the Morgan Stanley Institute for Sustainable Investing. The statements above reflect the opinions and views of the Global Real Assets Team and the Institute for Sustainable Investing as of the date hereof and not as of any future date and will not be updated or supplemented. All forecasts are speculative, subject to change at any time and may not come to pass due to economic and market conditions.

There is little correlation between the results of different providers

## Solution: working towards a level playing field for **The Netherlands**



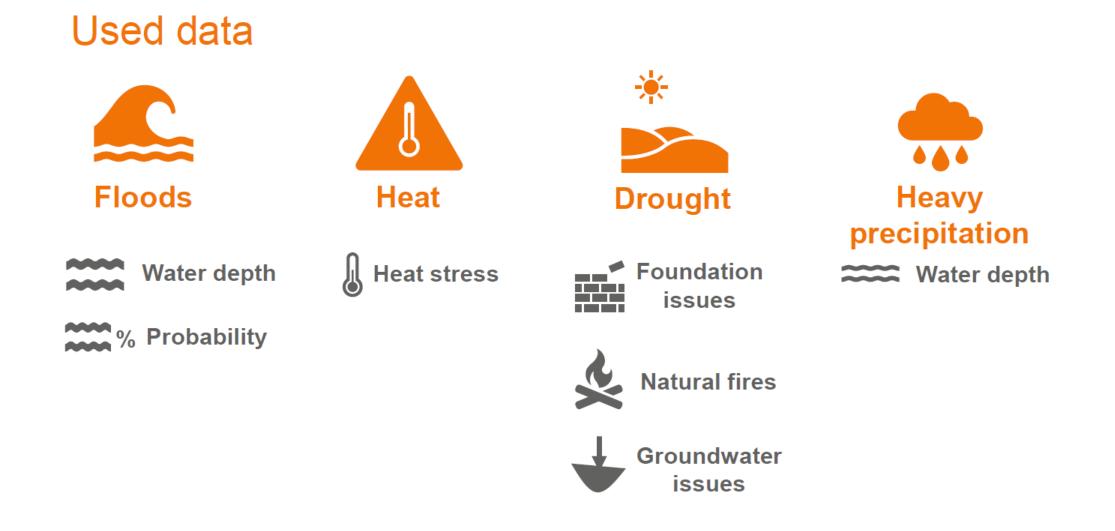
Knowledge institution network

The level playing field is developed though a framework for climate adaptive buildings



Estimating the climate effects on the surroundings of a building Estimating the vulnerability of a building to various climate effects, by looking at building-specific properties Defining and implementing measures that reduce risks

**Surroundings score** 



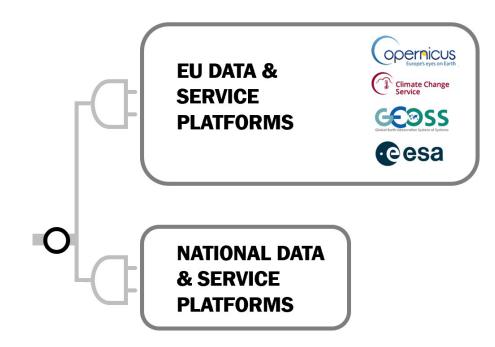
The process of development featured extensive end-user involvement and co-production. This is a list of partners:



## Upscaling the framework to the wider EU region

1. Upscaling is of great interest, as many investors have assets in multiple countries

2. A large challenge is the trade-off between comparable EU-wide datasets or less comparable but more reliable local data sources







### Co-production of information through <u>Science-Practice Labs</u>

Three key takeaways from the Science-Practice Lab 2022:

1. The starting point of physical climate risk assessments in science is not the same as in practice.

2. From this starting point of physical climate risk, we can further improve towards financial climate risk.

3. Besides our current probabilistic way of calculating likelihoods and risk, there is an opportunity to look at individual events to better understand ripple effects.



