



# Recent activities, hot topics, and challenges in the Netherlands

5th International Climate Change Adaptation Platforms Meeting  
*Tsukuba, Japan - 24-10-2024*

Kim van Nieuwaal  
Malou ten Have

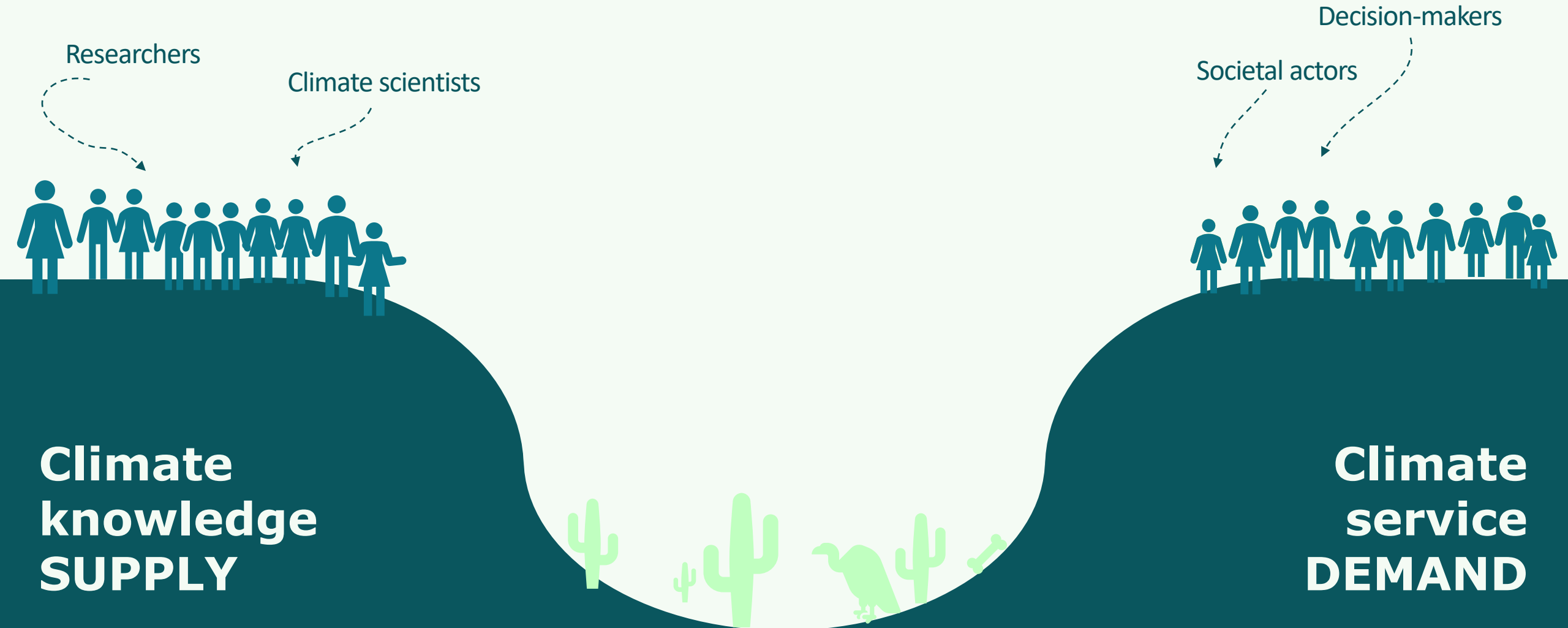


# About Climate Adaptation Services (CAS)

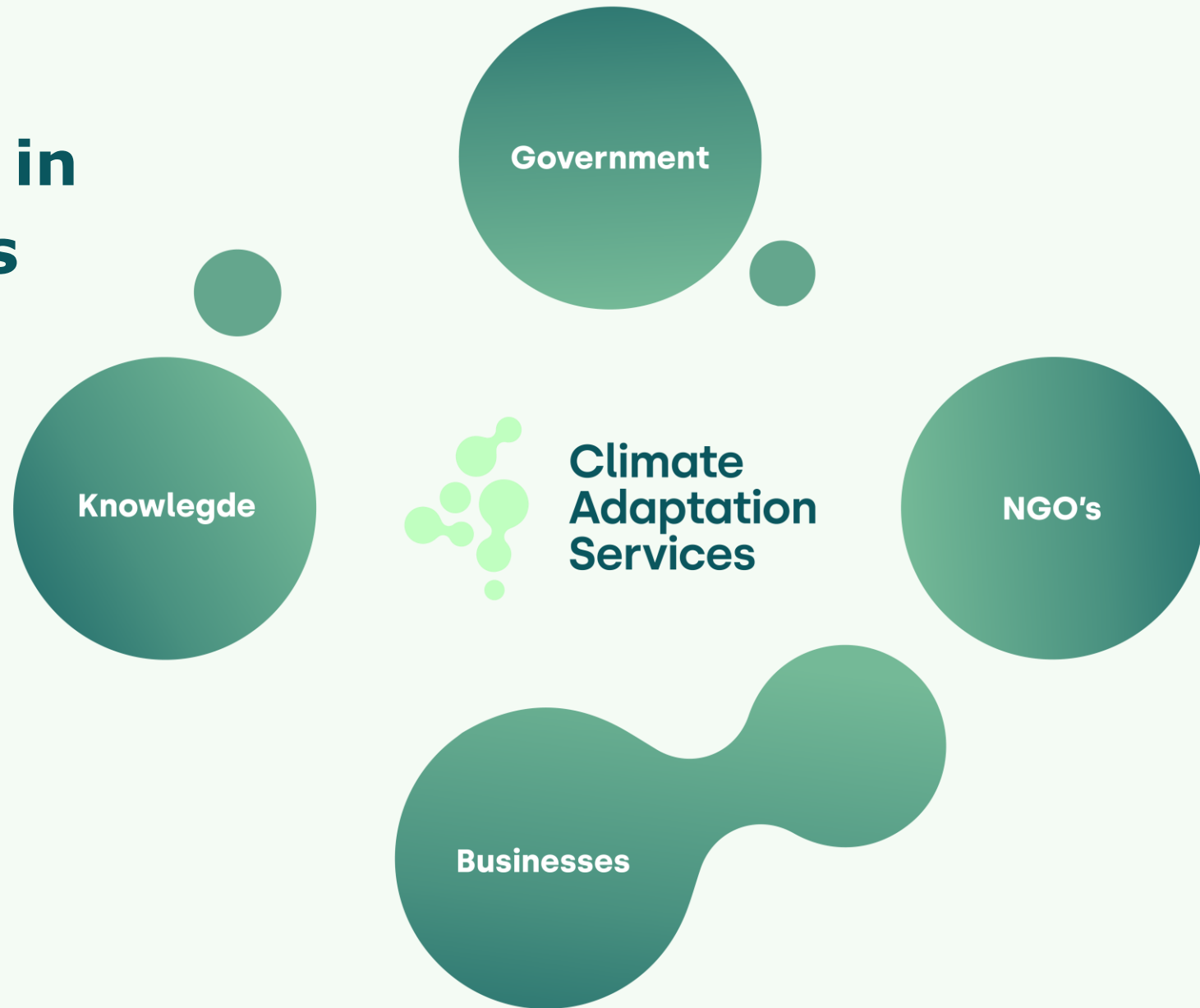
- Independent Knowledge Broker in The Netherlands
- Established from the Research Programme 'Knowledge for Climate'
- We focus on developing climate services together with users and knowledge institutes
- We develop and maintain several climate adaptation portals



# We bridge the gap between scientific knowledge and practice

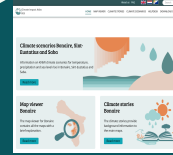


# Unique position in The Netherlands



# Constellation of Dutch Adaptation Platforms

# Climate Impact Atlases



## Climate Impact Atlas Dutch Caribbean

*International*

# Knowledge portals



## Portal Dutch Caribbean



## Dutch Knowledge Portal



## Dutch Climate Impact Atlas

*National*

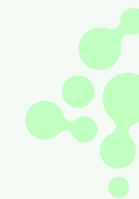


## Knowledge Portal Brabant

*Regional*



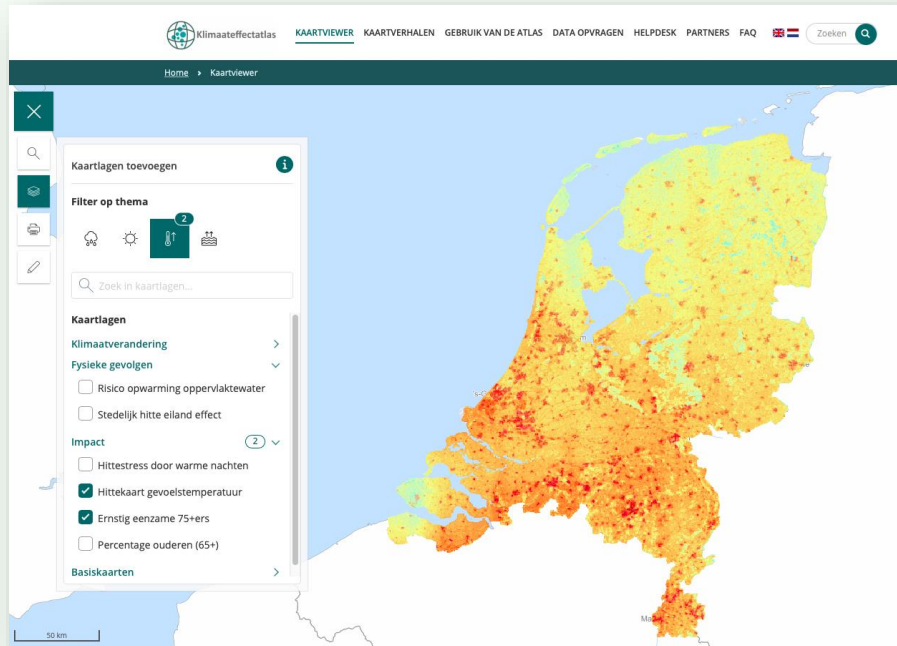
Climate Adaptation Services



Climate Adaptation Services

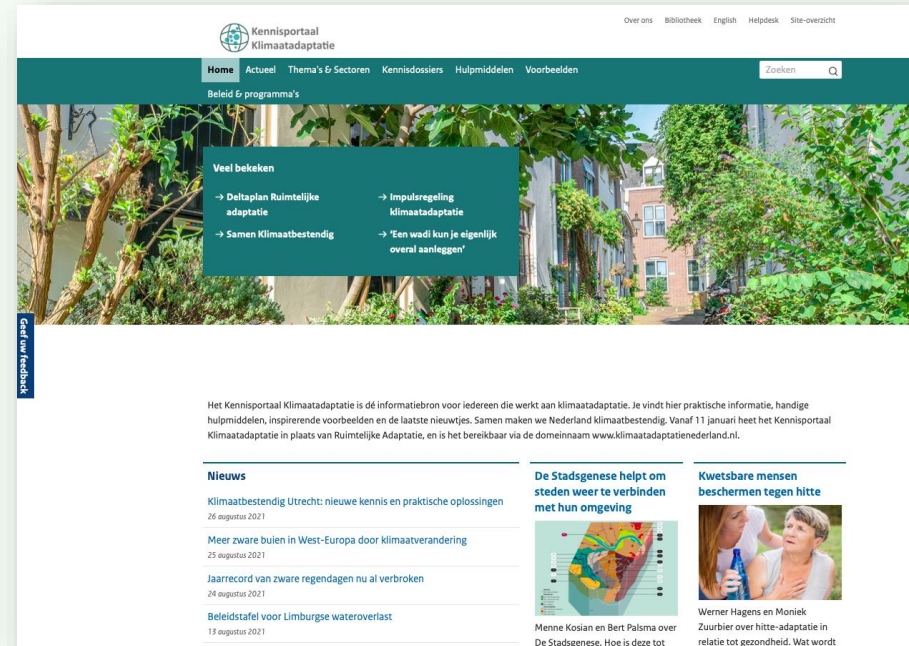
# Two cornerstones of the Dutch knowledge infrastructure

## Dutch Climate Impact Atlas *klimateffectatlas.nl/en/*



*500 visitors per day;  
1000 downloads in 2023*

## Adaptation Knowledge Portal *klimateadaptatienederland.nl/en*



*1300 visitors per day  
250.000 in 2023*

# Portal and Climate Impact Atlas for Dutch Caribbean

Kennisportaal  
Klimaatadaptatie

About us

Home Get started Knowledge dossiers Tools Examples Library Policy and programmes

Home > The Caribbean part of the Kingdom of the Netherlands >

→ The Caribbean part of the Kingdom of the Netherlands

- How is the climate changing?
- What are the consequences of climate change?
- How can we adapt to the consequences of climate change?
- Best practices in climate adaptation
- Networks in the Caribbean region
- Island Voices

## The Caribbean part of the Kingdom of the Netherlands

Welcome to the knowledge portal section on the Caribbean part of our Kingdom. This section presents information on climate change and on the steps that the Caribbean islands of Aruba, Curaçao, Sint Maarten, Bonaire, Sint Eustatius, and Saba can take to adapt to the consequences.

[klimaatadaptatienederland.nl/en/caribbean/](https://klimaatadaptatienederland.nl/en/caribbean/)

Climate Impact Atlas  
BES

About us FAQ Search

HOME MAP VIEWER CLIMATE STORIES CLIMATE SCENARIOS HELPDESK DOWNLOAD DATA

## Climate scenarios Bonaire, Sint-Eustatius and Saba

Information on KNMI climate scenarios for temperature, precipitation and sea level rise in Bonaire, Sint-Eustatius and Saba.

[Read more](#)

## Map viewer Bonaire

The map viewer for Bonaire contains all the maps with a brief explanation.

[Read more](#)

## Climate stories Bonaire

The climate stories provide background information to the main maps.

[Read more](#)

[bes.climateimpactatlas.com/](https://bes.climateimpactatlas.com/)



# Regional portal for the province of Brabant



## Aan de slag met klimaatadaptatie

-  Als professional  
Lees verder - >
-  Als inwoner  
Lees verder - >
-  Als ondernemer  
Lees verder - >
-  Als docent/student  
Lees verder - >

## Sectoren

-  Water en Ruimte
-  Natuur
-  Landbouw
-  Gezondheid
-  Recreatie toerisme
-  Infrastructuur
-  Energie
-  ICT en telecom
-  Veiligheid

## Nieuws uit Brabant

<https://www.klimaatadaptatiebrabant.nl/>

# Triple-A approach

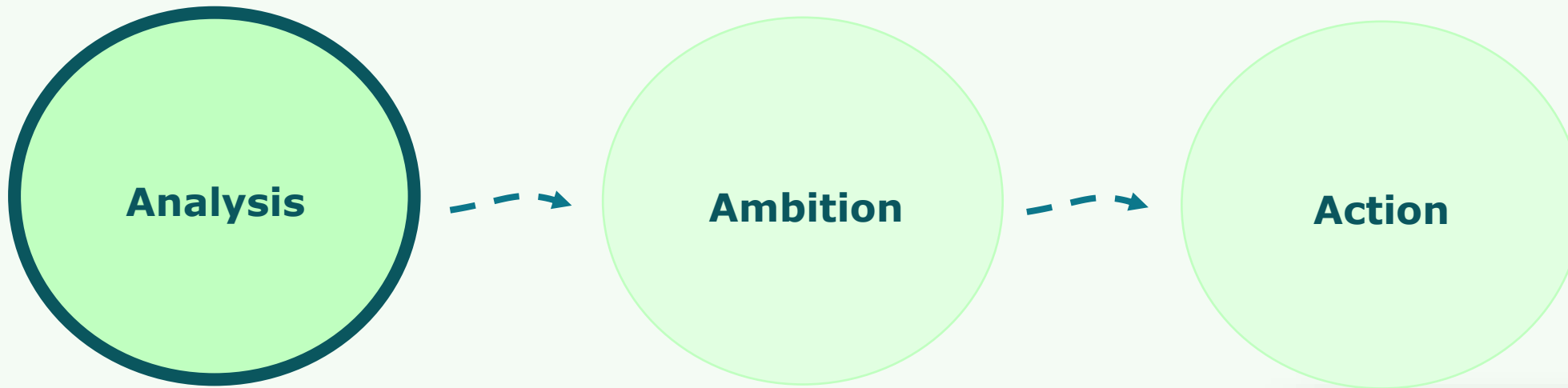
# 3 phases



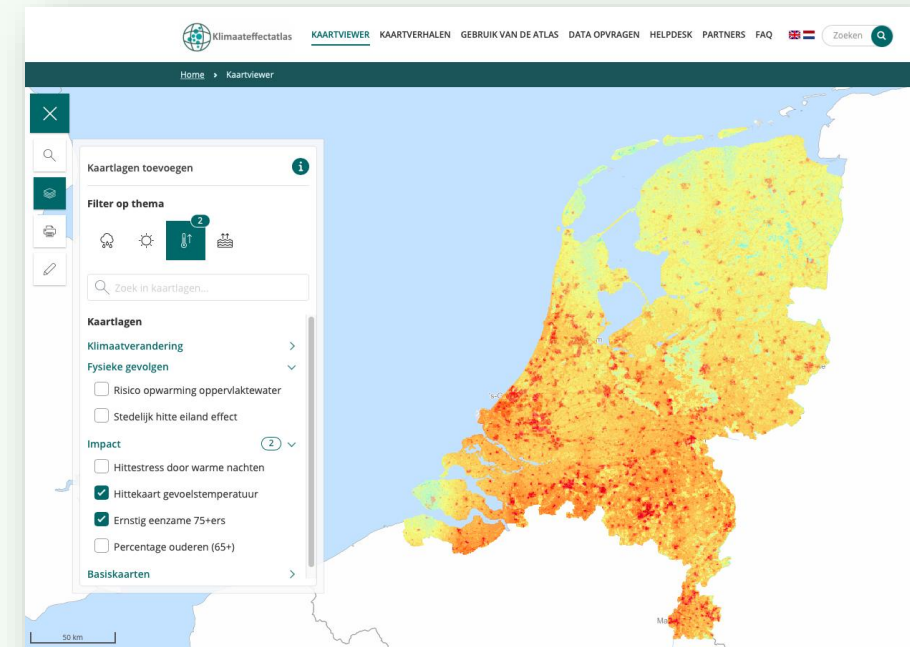
# Triple-A is proven concept in the Netherlands

- Proven concept for 10+ years in the Netherlands > as approach now also used in the Dutch Caribbean
- In NL current emphasis lies on action-phase and monitoring
- The content on the adaptation platforms align with the phase of the triple-A approach

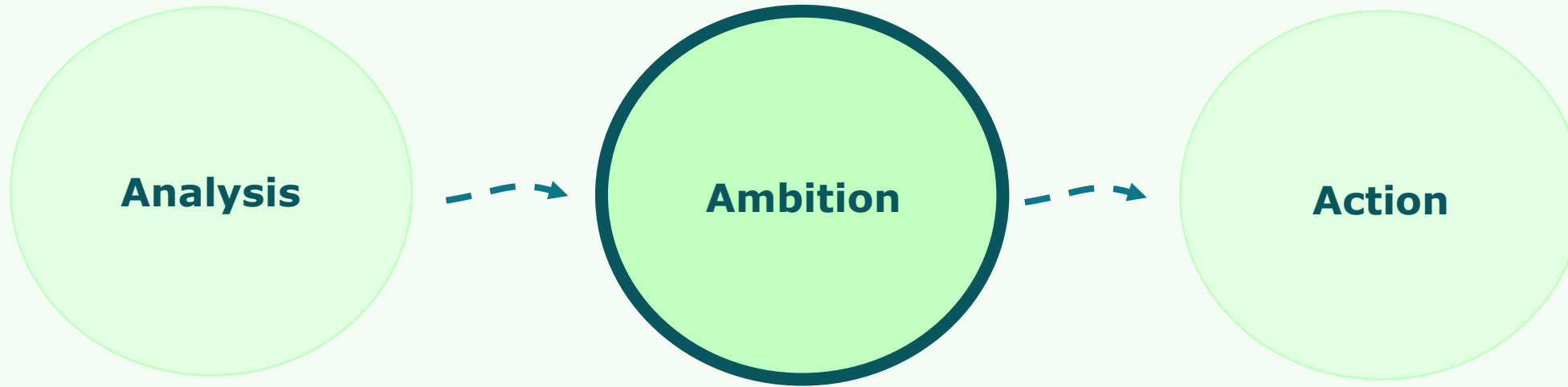
# How do we align content to the Triple-A approach?



- Climate Impact Atlas
- Knowledge dossiers on portals



# How do we align content to the Triple-A approach?



- Share good examples of adaptation strategies on portals
- Adaptation Pyramid (see next section)

# How do we align content to the Triple-A approach?









- 'Get started' section on Dutch portal
- Share examples for inspiration

**Who can take action?**

Everyone! We can all contribute to climate-proofing our environment: government bodies, businesses, NGOs, and residents. In addition, it is important for the education sector to focus sufficient attention on climate adaptation. The links below will point you to information for setting to work.

The pages below are only available in Dutch.

<b>Governments</b>  <a href="#">Get started as a government body</a>	<b>Businesses</b>  <a href="#">Get started as a business</a>	<b>Residents</b>  <a href="#">Get started as a resident</a>
<b>Education</b>  <a href="#">Get started as a teacher or student</a>	<b>NGO's</b>  <a href="#">Get started as an NGO</a>	<b>Caribbean</b>  <a href="#">Get started in the Caribbean</a>



# Adaptation Pyramid

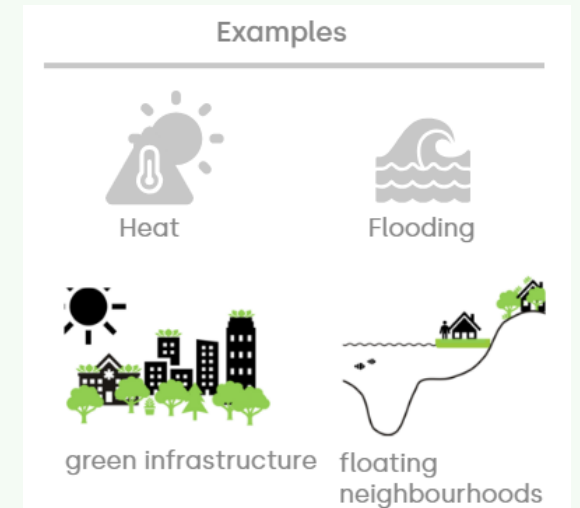


# The Adaptation Pyramid

A tool/visual that can help:

- to move to the next phase of the Triple-A approach: only with a clear goal we can chart a clear course
- to set ambition and clear goals
- with monitoring & evaluation: are you on the right track to meet your goals?
- enhance collaboration with other sectors/departments

# Transformative adaptation



## Transformative adaptation

We strengthen the natural system as a foundation and we make the water and soil system guiding.



# Incremental adaptation




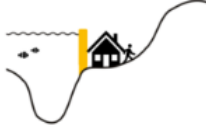
## Incremental adaptation

Technical measures provide protection from extremes where the natural system is inadequate.

## Transformative adaptation



Examples

 Heat	 Flooding
 air conditioning	 flood engineering

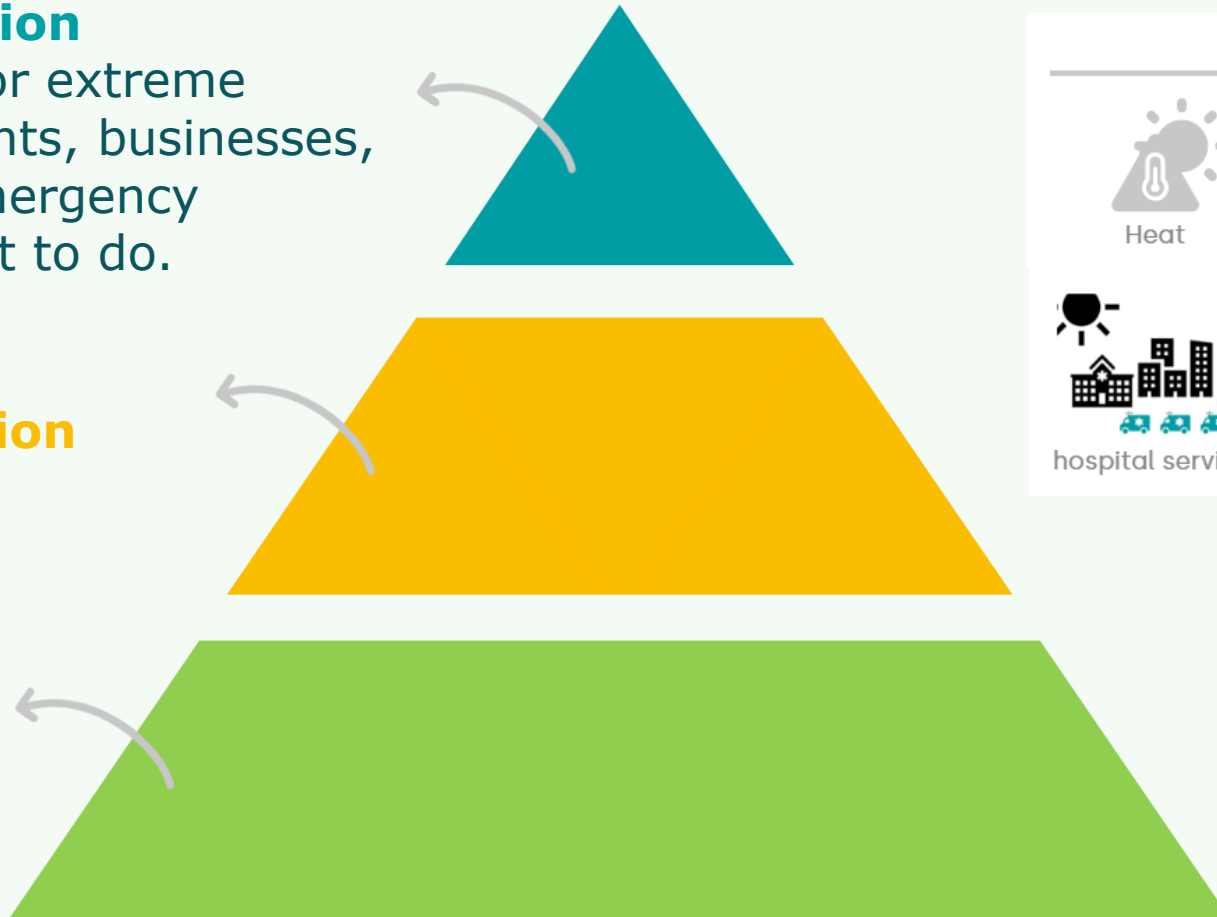
# Reactive adaptation

## Reactive adaptation





We are prepared for extreme events. Our residents, businesses, institutions and emergency services know what to do.

## Incremental adaptation

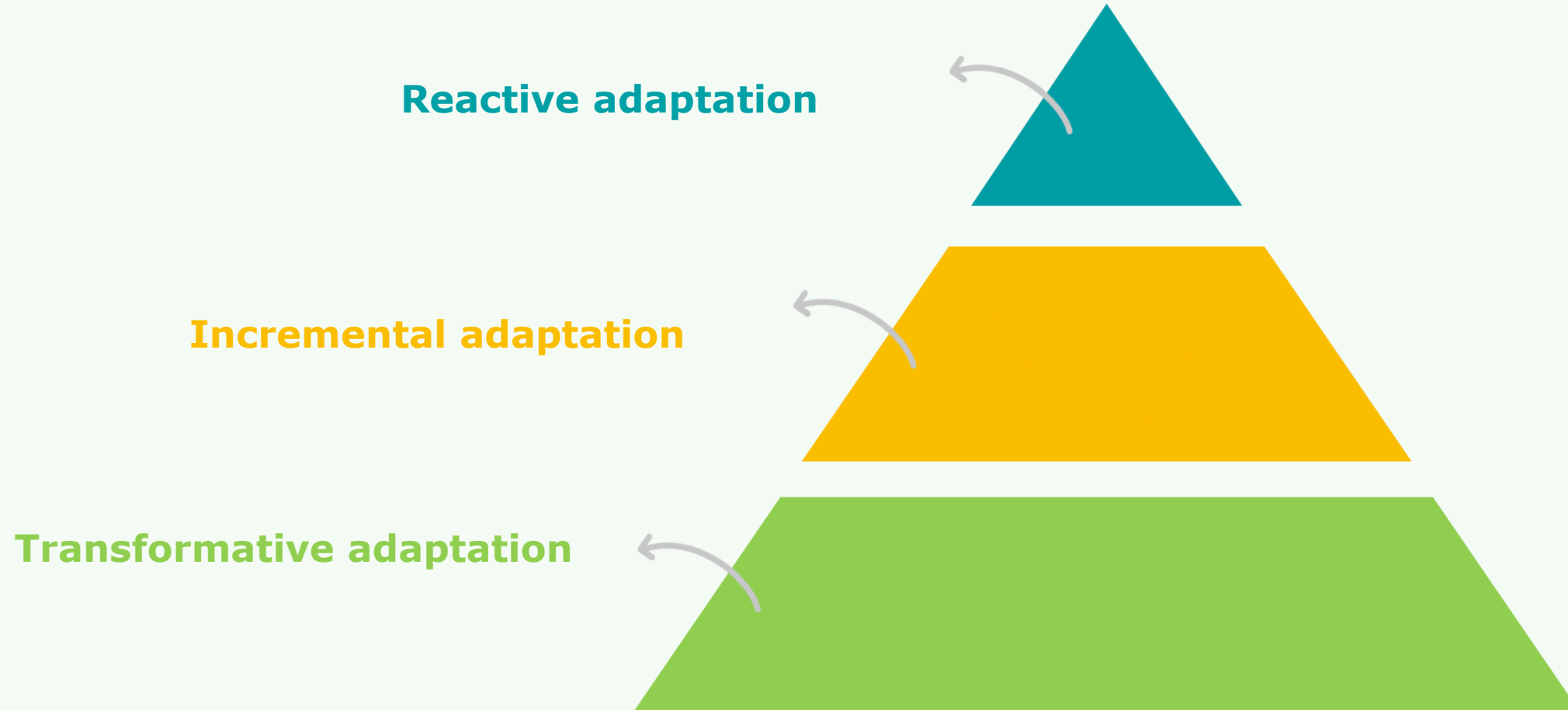
## Transformative adaptation



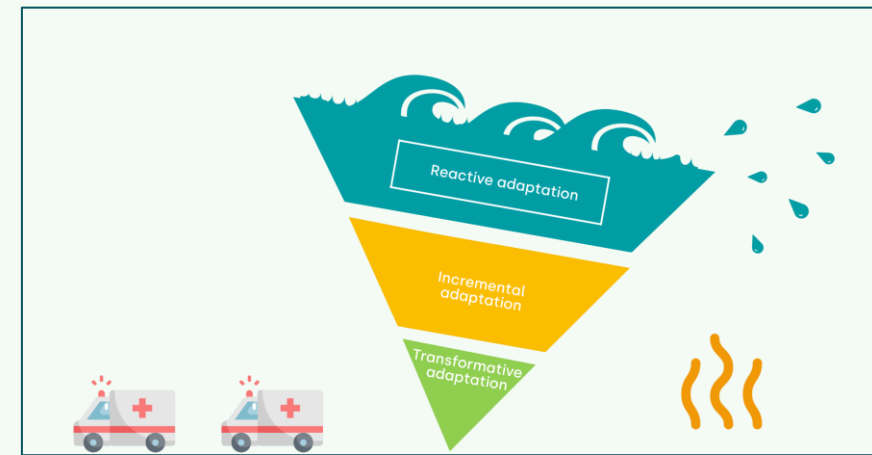
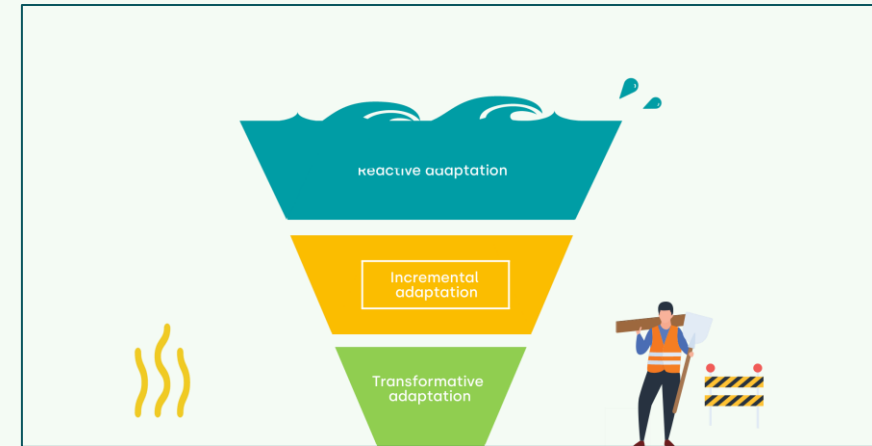
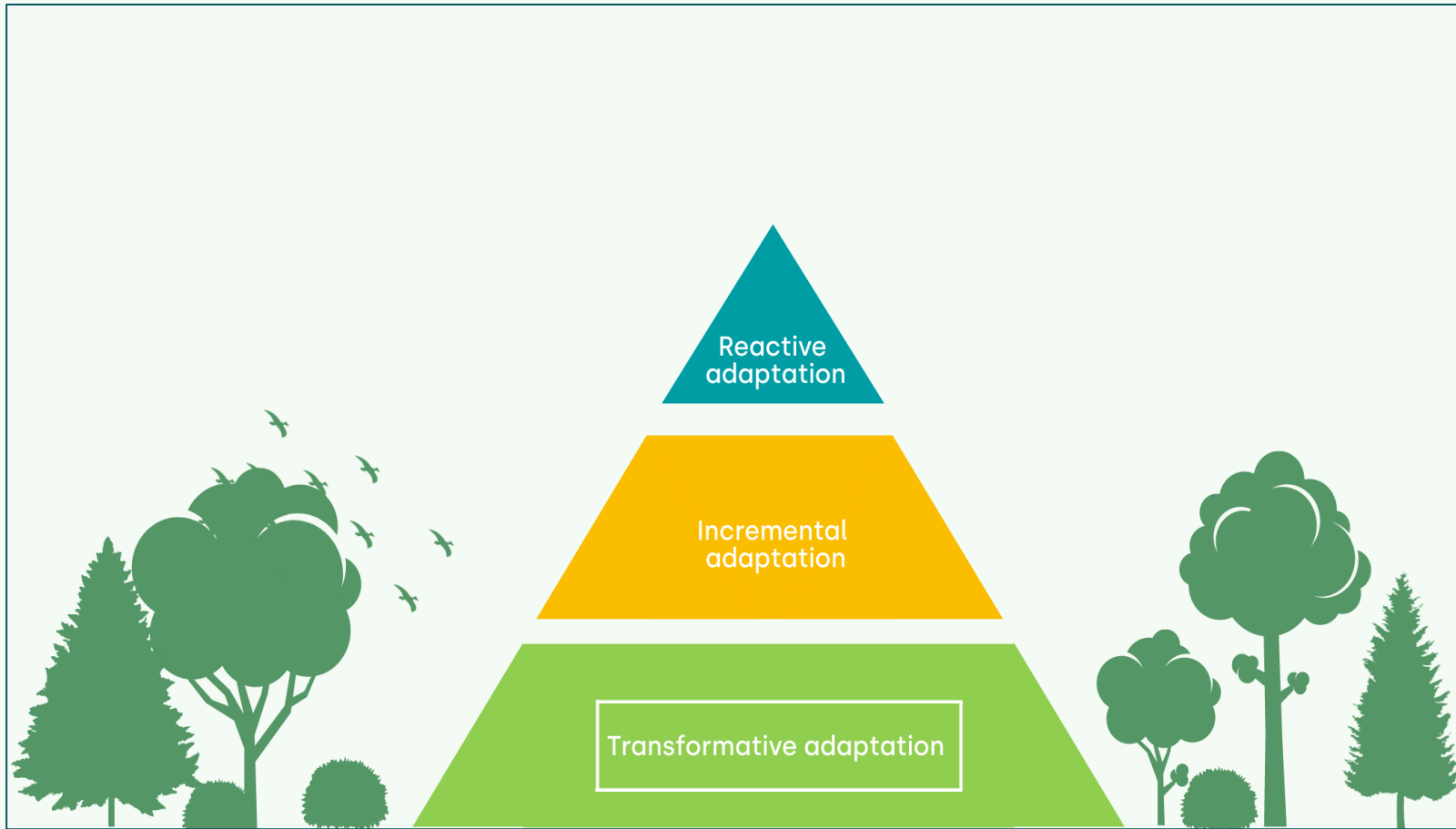
Examples

 Heat	 Flooding
 hospital services	 emergency rafts

# Three layers that are all important



# But investing in a solid foundation reduces the need for incremental and reactive adaptation.





**Thank you for your attention!**

**Questions? Contact us:**

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