



Climate Change  
and Air Quality

# Developing a Green Finance Taxonomy for South Africa

12 October 2020



environmental affairs

Department:  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA





# Introduction to the National Climate Change Information System (NCCIS)

- The South African National Climate Change Information System (NCCIS) is a web-based platform for the **tracking, analysis and enhancement** of South Africa's progress towards the country's transition to low-carbon economy and climate-resilient society as enshrined in the **National Climate Change Policy (2011)**.
- NCCIS contains **climate related data and information from a range of sources** for the purposes of providing insights into the country's progress in responding to climate change and achieving national and international **goals, commitments and targets**.



# NCCIS A national climate policy support platform tracking national climate action

## NCCIS

NATIONAL CLIMATE CHANGE INFORMATION SYSTEM

INTEGRATING DATA AND DECISION-SUPPORT

### ABOUT

The NCCIS is part of the national effort to track South Africa's overall transition to a low carbon and climate resilient economy by offering a series of decision support tools to inform policy and decision-making.

### PURPOSE

The system monitors and evaluates climate change drivers, events, links to national objectives, targets and strategies in respect of climate change mitigation and adaptation monitoring and assessment of actions taken by stakeholders.

### COLLABORATIVE PROCESS

NCCIS is composed of building blocks and key elements to identify specific aspects of climate resilience for direct monitoring and evaluation. The work of DEA and SAEON is aimed at:

1. Collating data from a range of sources, and
2. Integrating a wide variety of tools and initiatives into an integrated, modular system avoiding duplication of efforts and ensuring a common frame of reference.

### ACTIONABLE DATA SETS

Resources including datasets, static content, references to documentation and reports, and other digital objects are easy to search and discover in the NCCIS.

The NCCIS offers a series of decision support tools to inform policy and decision-making, as well informs South Africa's domestic and international reporting climate action including Parliament, Cabinet as well South Africa's position in various negotiating platforms such as the current COP25.



environmental affairs  
Department of  
Environmental Affairs  
REPUBLIC OF SOUTH AFRICA



science & technology  
Department of  
Science and Technology  
REPUBLIC OF SOUTH AFRICA



LEARN MORE AT  
[HTTPS://CCIS.ENVIRONMENT.GOV.ZA](https://ccis.environment.gov.za)



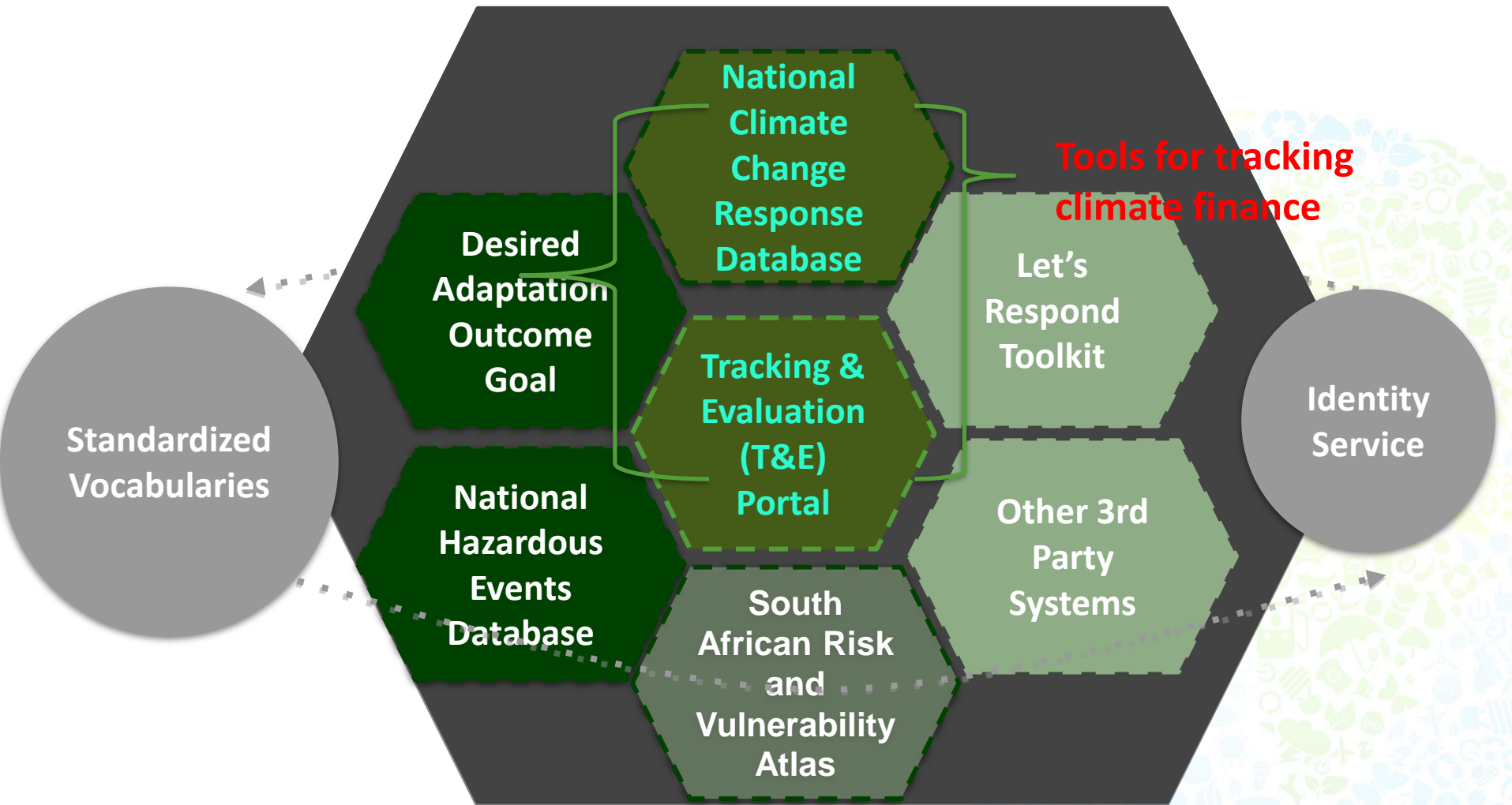
# NCCIS Data sources

The NCCIS is supported by a **national, provincial, and local scale system** of data-collection to provide detailed, **complete, accurate and up to date data on:**

- Greenhouse **gas emission reductions achieved** through projects, policies and other related instruments/measures.
- **Observed and projected climate change.**
- Current and future risks, impacts and vulnerabilities.
- Climate resilience response measures.
- Analysis of impact of adaptation and mitigation measures.
- **Information on climate change financial flows.**
- Tracking of **technology transfer** activities related to climate change initiatives.
- Tracking climate change monitoring and evaluation indicators.

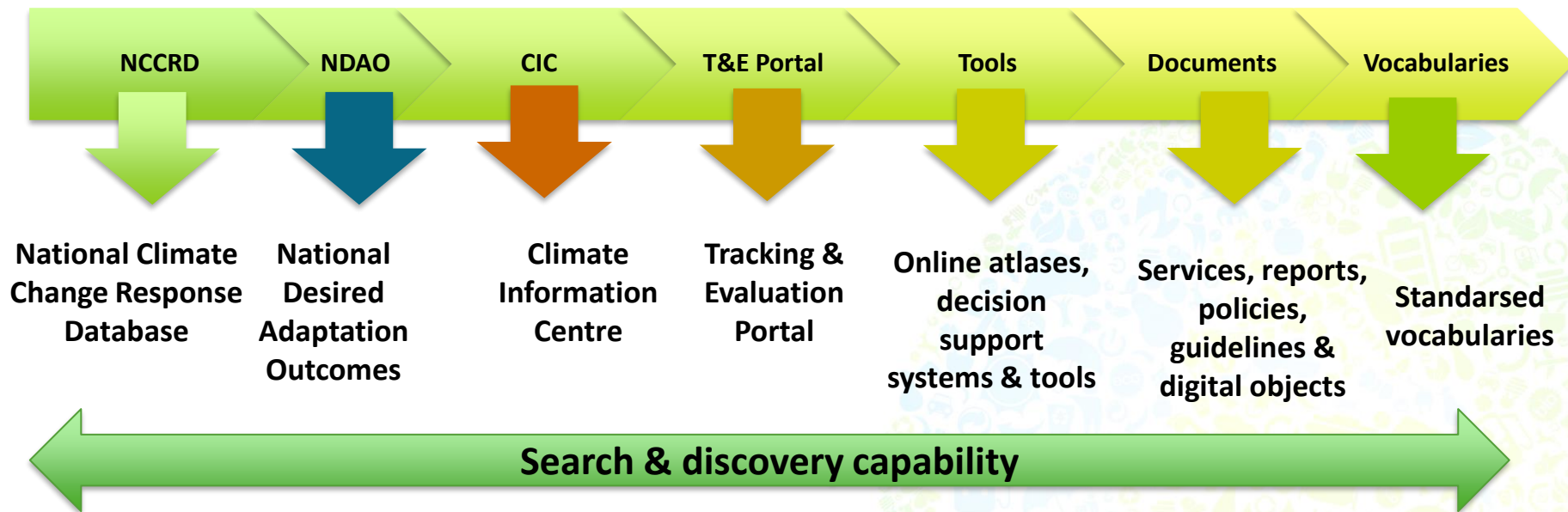


# NCCIS - Extendable System of Systems





# South Africa's NCCIS system architecture



The NCCIS is conceived as a distributed system of systems, capable of exchanging data and processes within an ecosystem of participant and contributing systems. These systems could be at provinces or other national departments, or provided by third parties - locally or internationally.

- URL: [http:// https://ccis.environment.gov.za](http://https://ccis.environment.gov.za)



# Climate Action - linkages

## Challenges

To understand risks, vulnerabilities, GHG trends and projections

Energy, transport, economic models

Climate scenario

GHG projections

Vulnerability assessments

GHG inventory

Climate data

## Implementation

Tracking support for investments, capacity and technology

Private investment

Bilateral

Public investment

Multinational

Technology transfer

*Why are we taking action?*

*Who is investing in actions?*

*Are actions working and sufficient?*

## Actions

Information on mitigation and adaptation actions

Timelines

Location

Costs

Stakeholders

Sectors and categories affected

Action impacts (ex-ante and ex-poste)

## Indicators

Quantitative information for tracking all elements

National statistics

Climate events

Action monitoring

GHG inventory

*What actions will contribute?*

*What are the wider benefits and possible conflicts of the action?*

## Targets

To record national targets and international obligations

Commitments

Plans

Area wide, sectoral and emissions reduction targets

## Wider impacts

Linking wider impacts to national strategies and SDGs

National strategies

SDGs

Wider impacts evidence



# Support Channels

Summary

Actions

Support

Indicators

Chose Support Channel

- Bilateral Cooperation
- Blended Funding
- Domestic Funding
- Multilateral cooperation
- All

## Tooltip

Number of Actions: 12

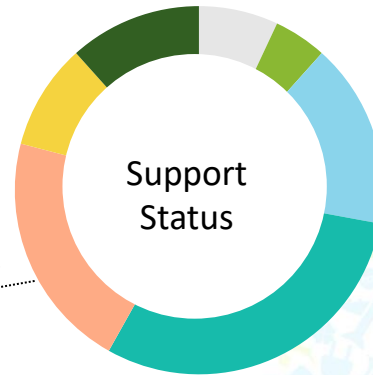
Support Channel: Bilateral Cooperation

Support Status: Pledged

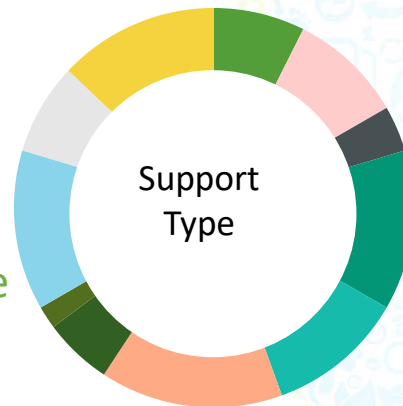
Table of Supporters

i

This data visualisation allows to investigate the number of climate actions according to the type of support channel available, the support status and its type.



Hover over the rings to see more information



- Committed
- Disbursed
- Financial
- Needed
- Pledged
- 1. Financial
- 1.1 Conditional Grants
- 1.2 Concessional Loans
- 1.3 Equity Finance
- 1.4 Export credit and guarantees
- 1.5 Grants
- 1.6 Non-concessional loans
- 2. Capacity Building
- 3. Technical Support
- 4. Technology Support
- 5. General



# Support Received

Summary

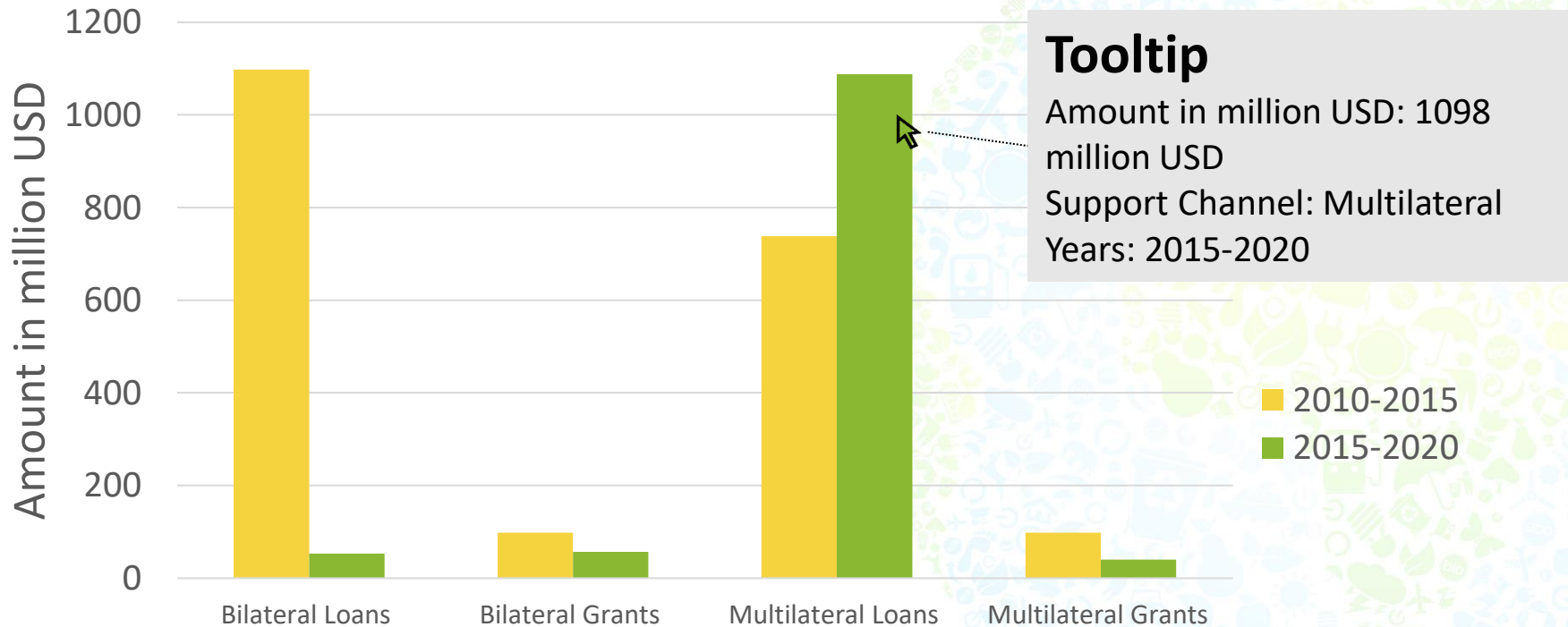
Actions

Support

Indicators



This data visualisation allows the support received to be visualised for the Biennial Update report.





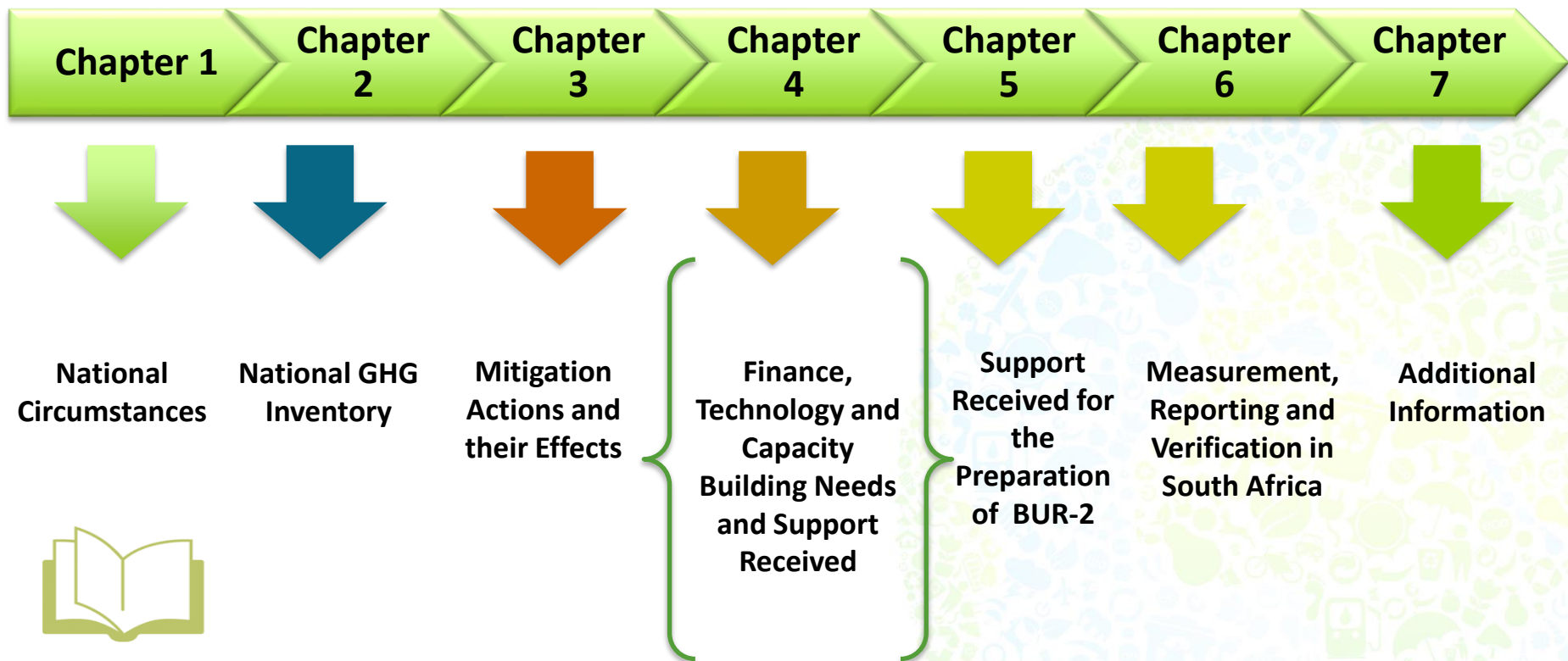
# Why track climate finance?

By **Reporting**, **Tracking** and **Monitoring** climate flows, policy makers (among others) can;

1. Assess the scale of finance, identify the main actors (public and private) in the market,
2. Understand investment gaps, and highlight opportunities and address barriers to mobilise finance in support of low-carbon, climate-resilient development



# Overview of BURs Chapters

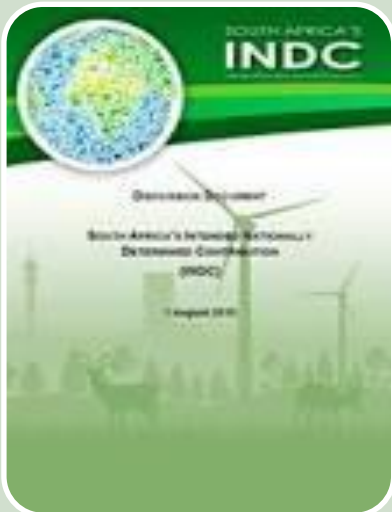


<https://unfccc.int/sites/default/files/resource/Final%203rd%20BUR%20of%20South%20Africa%20100.pdf>

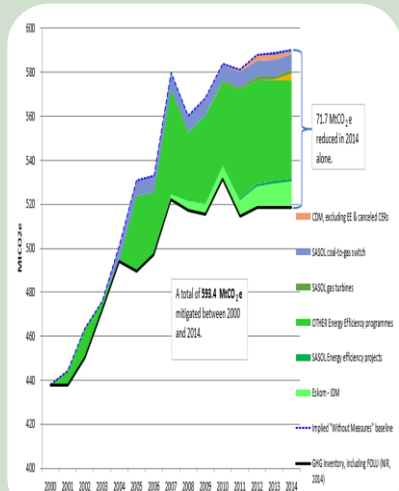


# Significance of tracking climate finance in the Climate Change Response Policy

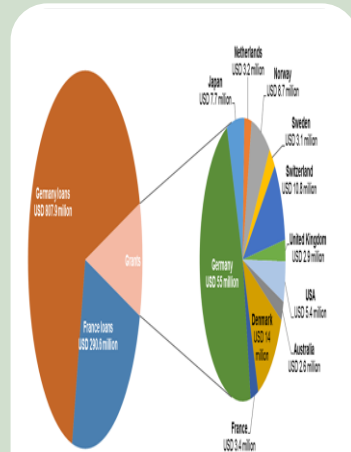
## Tracking Progress of South Africa's NDC



## Understanding the effectiveness of South Africa's Policies and Measures



## Highlighting Investment Priorities and Opportunities



## Information Hub and Resource

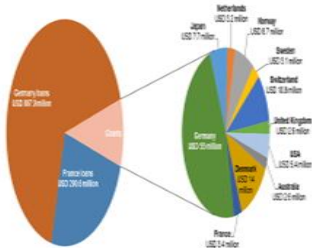






# Use cases of climate finance tracking: Information resource

## Investment opportunities



- **Investors** looking for opportunities in mitigation and adaptation projects.
- **Project Developers and Project Owners** that look for green investment opportunities

## Information resource



- **Researchers** for sourcing South Africa's climate information and open data
- **News and media houses** to obtain updates of South Africa's climate action



# Development of the National Climate Finance Support Strategy

- DEFF currently collaborating with NT and other stakeholders on the development of the National Climate Finance Support Strategy
- Development of Climate Finance Needs Support Strategy (the strategy is about outlining the priority climate response areas that needs financial support, as opposed to a broader finance strategy that may be a broader National Treasury function)
- Like in most countries, there has been a limitation in the national ability to track the flow of finances directed to climate change response measures in SA.
- The South Africa's National Climate Finance Support Strategy will provide tracking mechanisms as part of addressing the problem of tracking climate finance.



# NCCIS useful links

- NCCIS: <https://ccis.environment.gov.za>
- NCCRD: <https://ccis.environment.gov.za/nccrd>
- NDAO: <https://ccis.environment.gov.za/ndao>
- NHE: <http://app01.saeon.ac.za/ndmcsite/>
- Spatial Data Repository: <http://www.sasdi.net>
- Integrated Atlas Example: <http://sarva2.dirisa.org/atlas/agriculture>
- Integrated Metadata Example:  
<http://www.sasdi.net/search.aspx?guid=45be3b83-73f6-a504-d85d-c9b005b7a7a9&control=hide&noframe=true&tab=Results>
- Training material: <http://elearning.ccis.saeon.ac.za/>;  
[https://docs.google.com/document/d/1jD9OkTSgkYrwG8hYazz-cAM\\_reMw4tgpdmP\\_I5vHKpl/edit?usp=sharing](https://docs.google.com/document/d/1jD9OkTSgkYrwG8hYazz-cAM_reMw4tgpdmP_I5vHKpl/edit?usp=sharing)
- NCCIS Demo Video:  
[https://drive.google.com/drive/folders/1lo5Xzk\\_ghfJ1p6l8RBgP9R0-QCprQKcY?usp=sharing](https://drive.google.com/drive/folders/1lo5Xzk_ghfJ1p6l8RBgP9R0-QCprQKcY?usp=sharing)