

Is South Africa ready for a low carbon transition – A DST perspective



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science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

Global Change Grand Challenge

A
Understanding a changing planet

- 1 Observation and monitoring
- 2 Dynamics of the oceans around
- 3 Linking the land, air and sea
- 4 Linking the land, air and sea
- 5 Improving model predictions at different scales

B
Reducing the human footprint

- 1 Waste-minimisation methods and technologies
- 2 Conserving
- 3 Institutional integration to manage ecosystems and ecosystem services
- 4 Doing more with less

C
Adapting the way we live

- 1 Preparing for rapid change and extreme events
- 2 Planning for
- 3 Water security for South Africa
- 4 Food and fibre security for South Africa

D
Innovation for sustainability

- 1 Dynamics of transition at different scales – mechanisms of
- 2
- 3 Options for greening the developmental state
- 4 Technological innovation for sustainable social-ecological systems
- 5 Social Learning for sustainability, adaptation, innovation and resilience

The Global Change Research Plan identifies four major cross-cutting knowledge challenges and 18 key research themes.



National Designated Entity (NDE) – Climate Technology Centre and Network (CTCN)

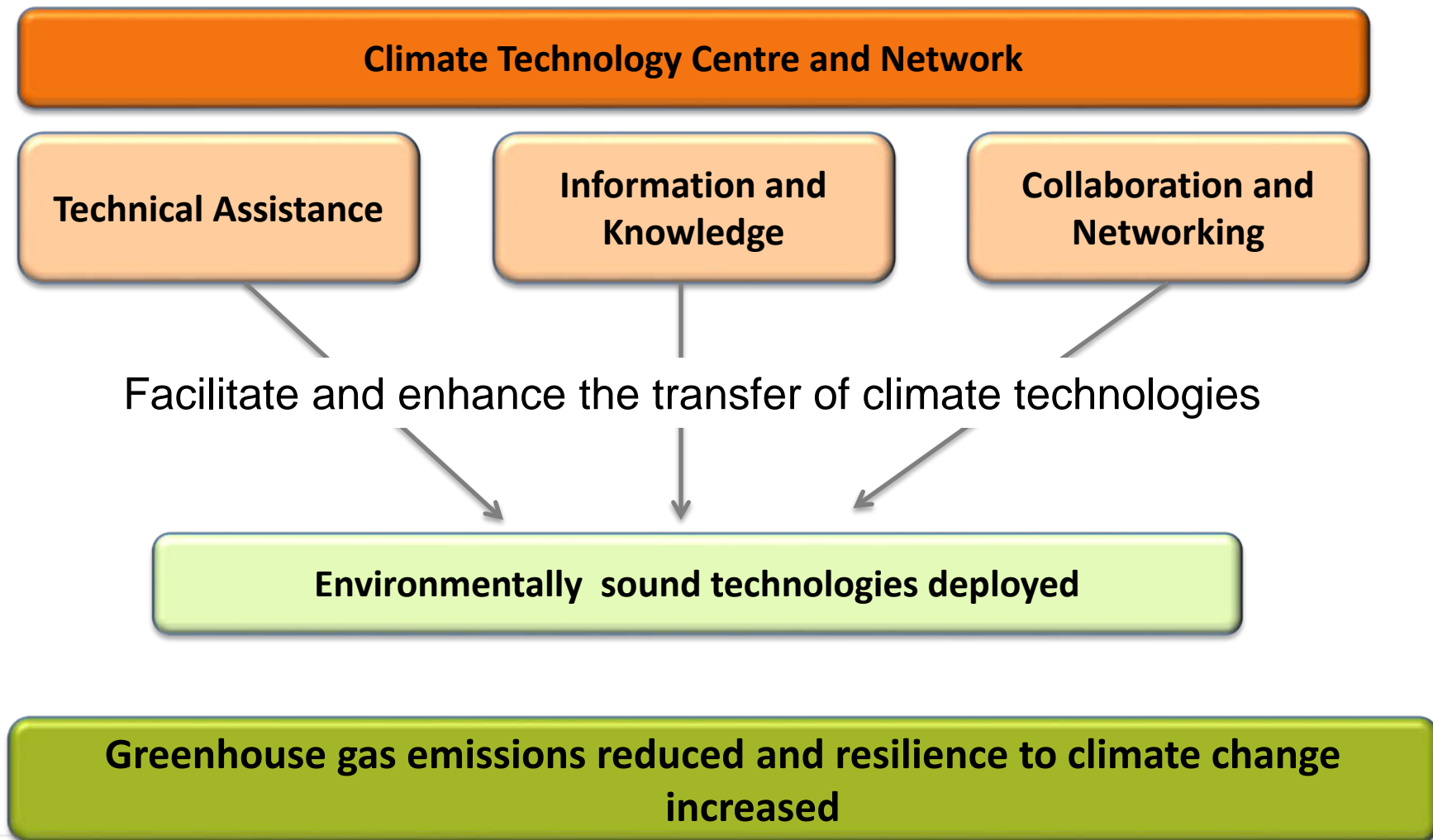


OBJECTIVE OF CTCN SERVICES

Support the identification, use and widespread deployment of environmentally sound technologies in developing countries by:

- **Removing barriers hindering transfer of technologies**
- **Enabling informed choices about climate technologies**

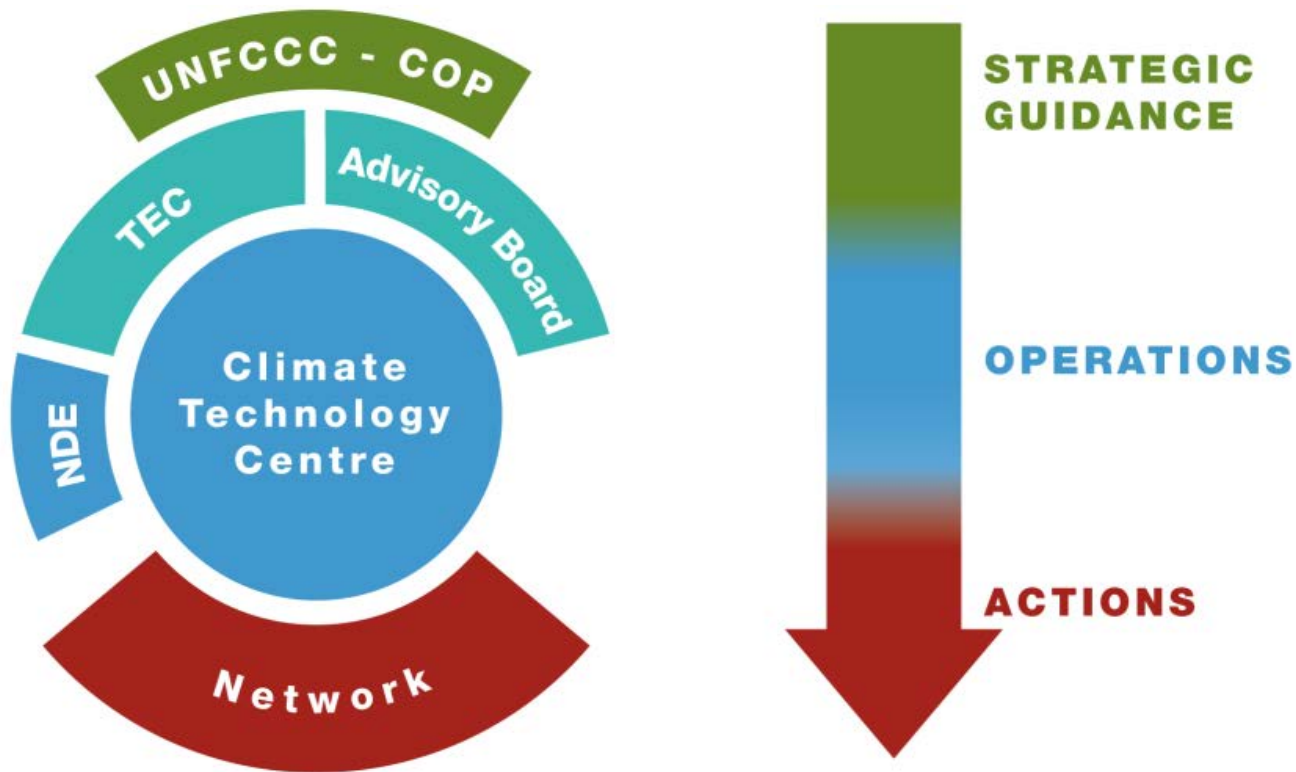
OVERVIEW OF CTCN SERVICES



CTCN STRUCTURE

Core Centre co-managed by UNEP and UNIDO, backed by partner institutions

Main support provided through the Network





CTCN FUNCTIONS AND NDE'S

NDEs support the CTCN functions at national level by:

Function 1	Leading and coordinating the formulation, selection and submission of requests Facilitating and monitoring the implementation of CTCN response assistance
Function 2	Fostering collaboration and access to information and knowledge to accelerate climate technology transfer in the country
Function 3	Strengthening networks, partnerships and capacity building for climate technology transfer in the country





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