CTCN
UN Climate Technology Centre & Network

TESS Forum
28 April 2022

CTCN and Climate Technology Priorities

CTCN Services

TECHNICAL ASSISTANCE

KNOWLEDGE SHARING

COLLABORATION & NETWORKING

Mitigation
REDUCE GHG
EMISSIONS

Adaptation
STRENGTHEN
CLIMATE
RESILIENCE
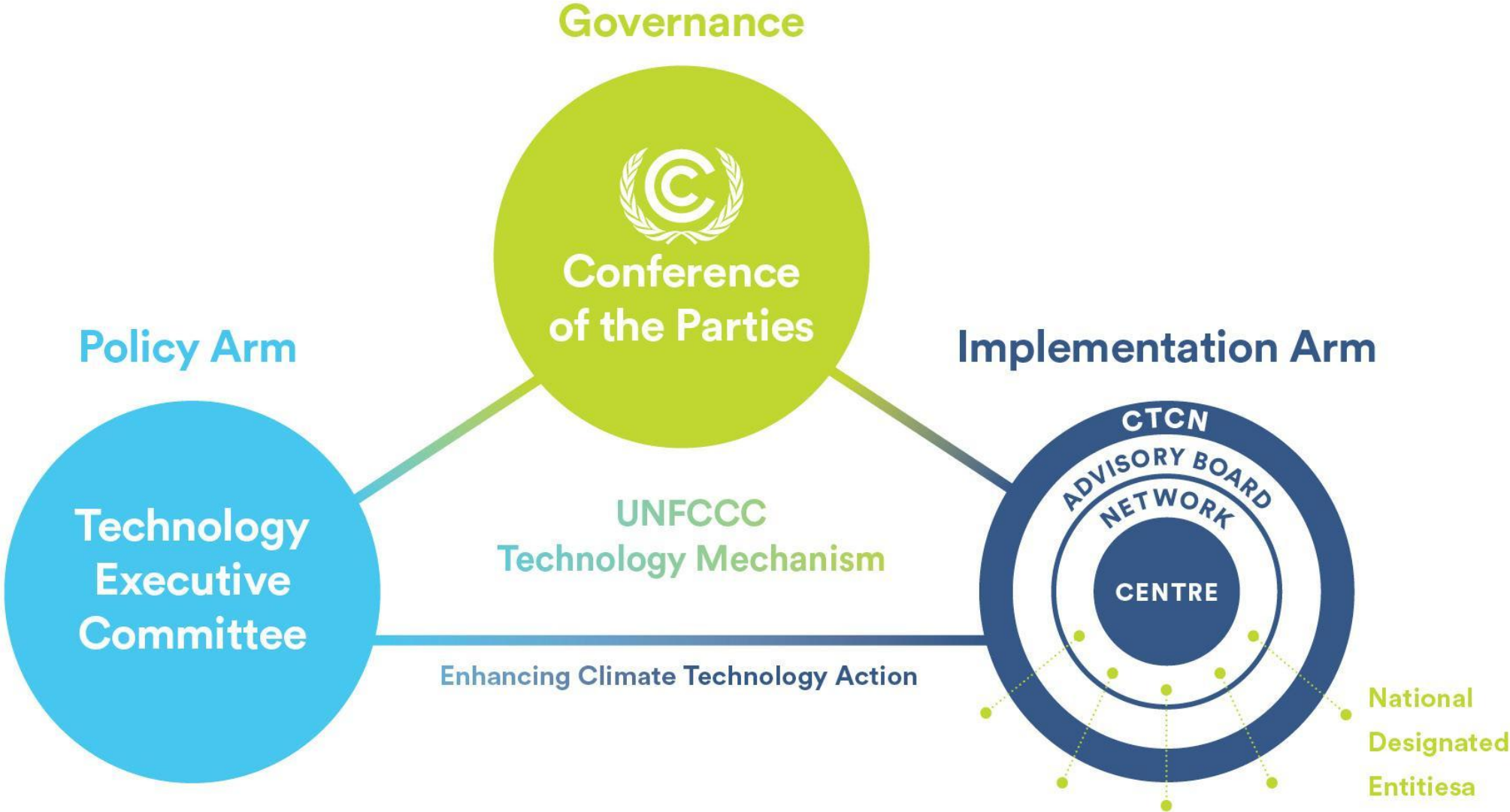
Agriculture
Carbon Fixation & Abatement
Energy Efficiency
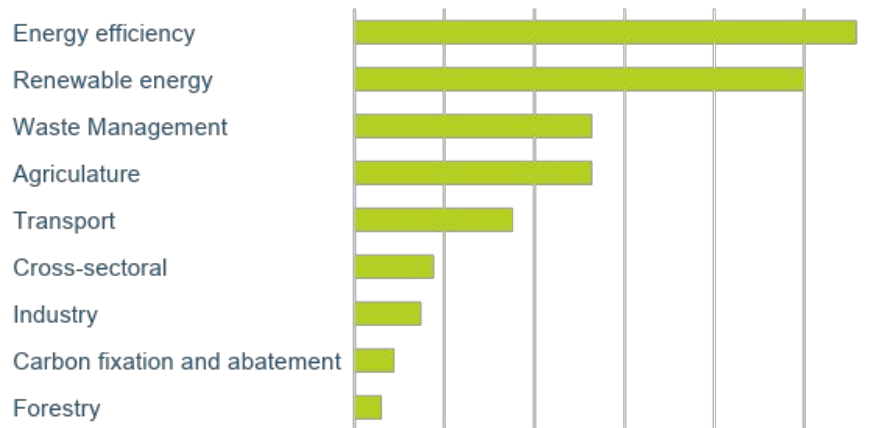Forestry
Industry
Renewable Energy
Transport
Waste Management

Agriculture & Forestry
Coastal Zones
Early Warning & Environmental Assessment
Human Health
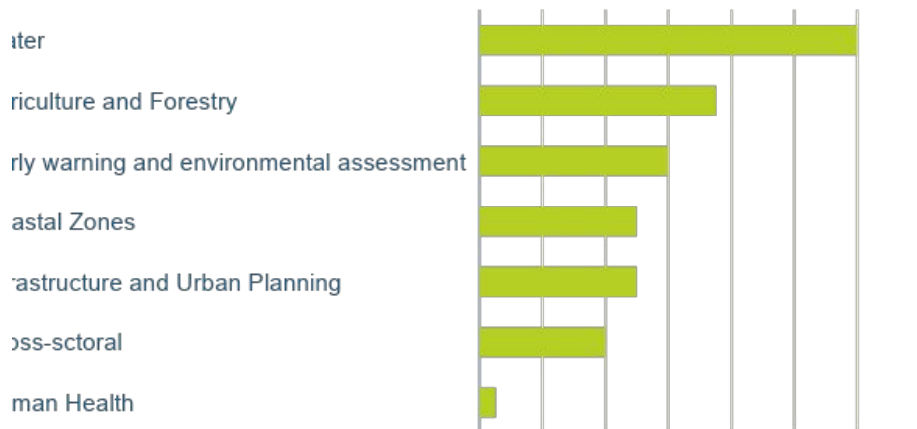Infrastructure & Urban Planning
Marine & Fisheries
Water

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Sectoral distribution of requests mitigation

- Energy efficiency
- Renewable energy
- Waste Management
- Agriculature
- Transport
- Cross-sectoral
- Industry
- Carbon fixation and abatement
- Forestry

Sectoral distribution of requests adaptation

- ...ter
- ...riculture and Forestry
- ...rly warning and environmental assessment
- ...astal Zones
- ...rastructure and Urban Planning
- ...oss-sctoral
- ...man Health

332 TA requests received from 108 countries

Eastern Europe 2% 6 TAs

Asia 27% 99 TAs

Oceania 4% 15 TAs

LAC 23% 84 TAs

Africa 45% 166 TAs
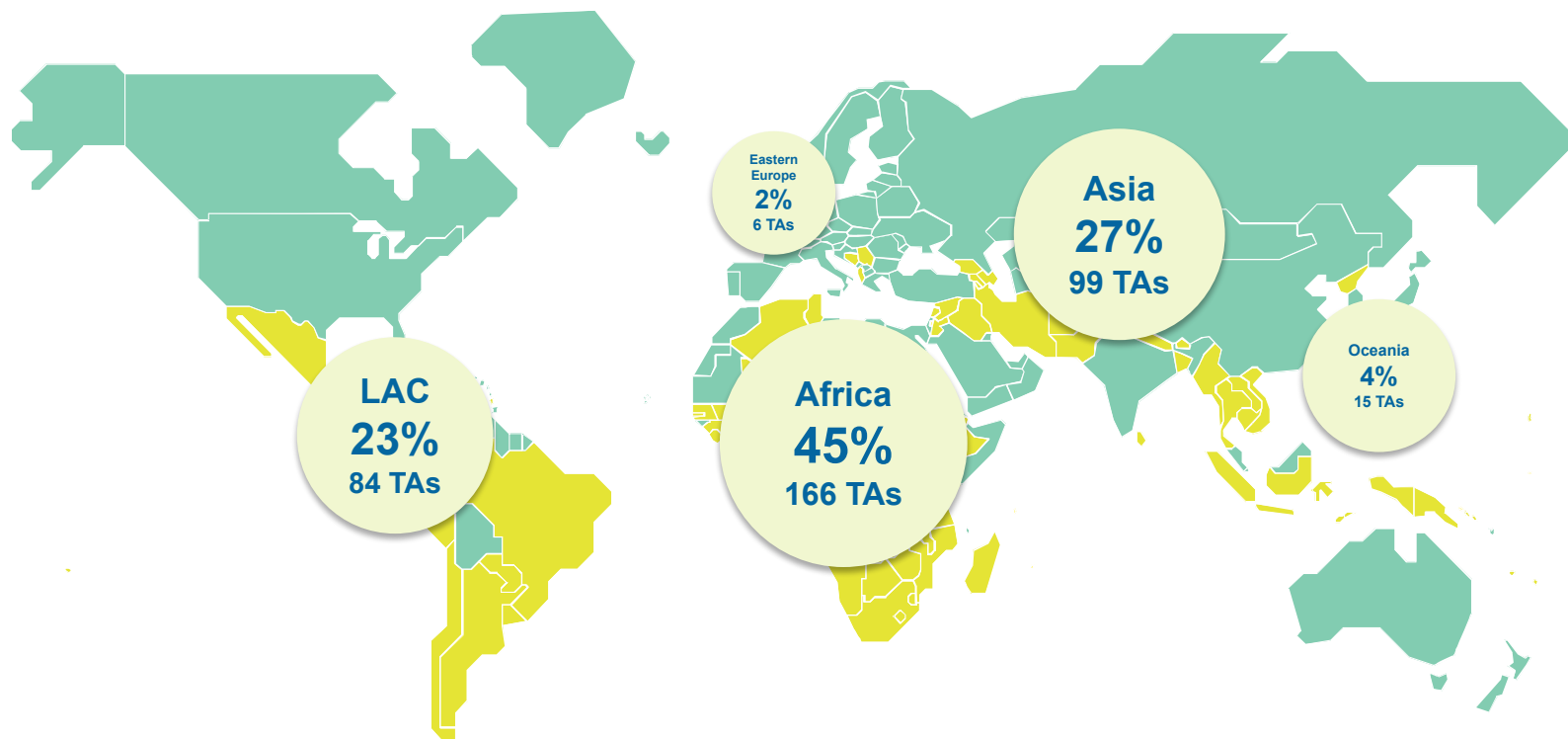
Joint TEC-CTCN Report on NDCs and Technology Needs (2021)

- Analysis of Nationally determined contributions received as of 31 December 2020 globally

- Information on technology needs mentioned in the updated NDCs, including examples and success stories

- Link: https://unfccc.int/ttclear/misc_/StaticFiles/gnwoerk_static/techandndc/c93353c94cfc4a1daa013f27ea92df2f/bdc9d4fab72f44c283a0f35fb72ecc8e.pdf
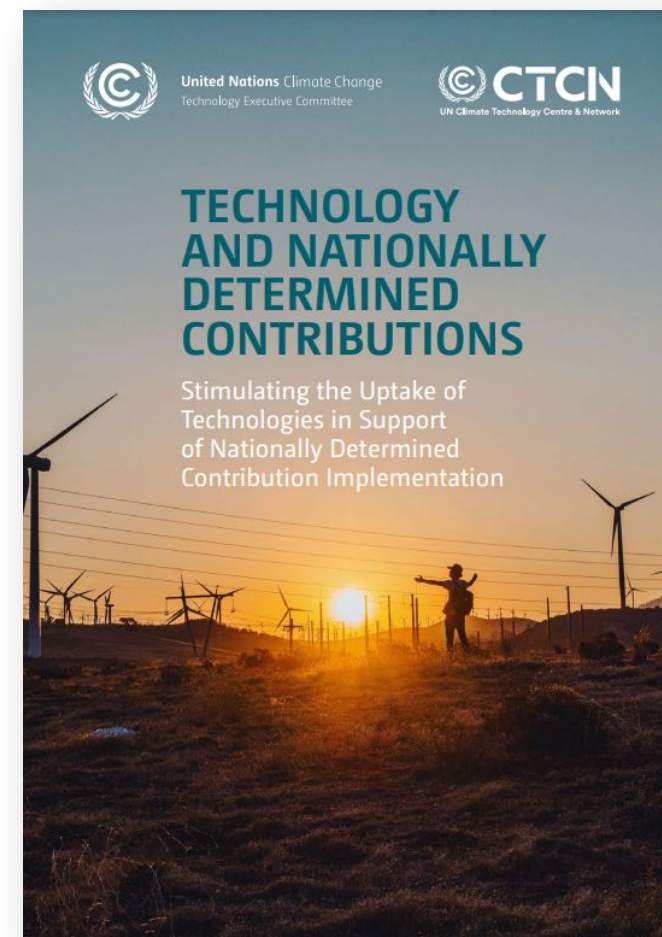
Relevance of Technology in Updated NDCs


Number of revised NDCs mentioning technology issue
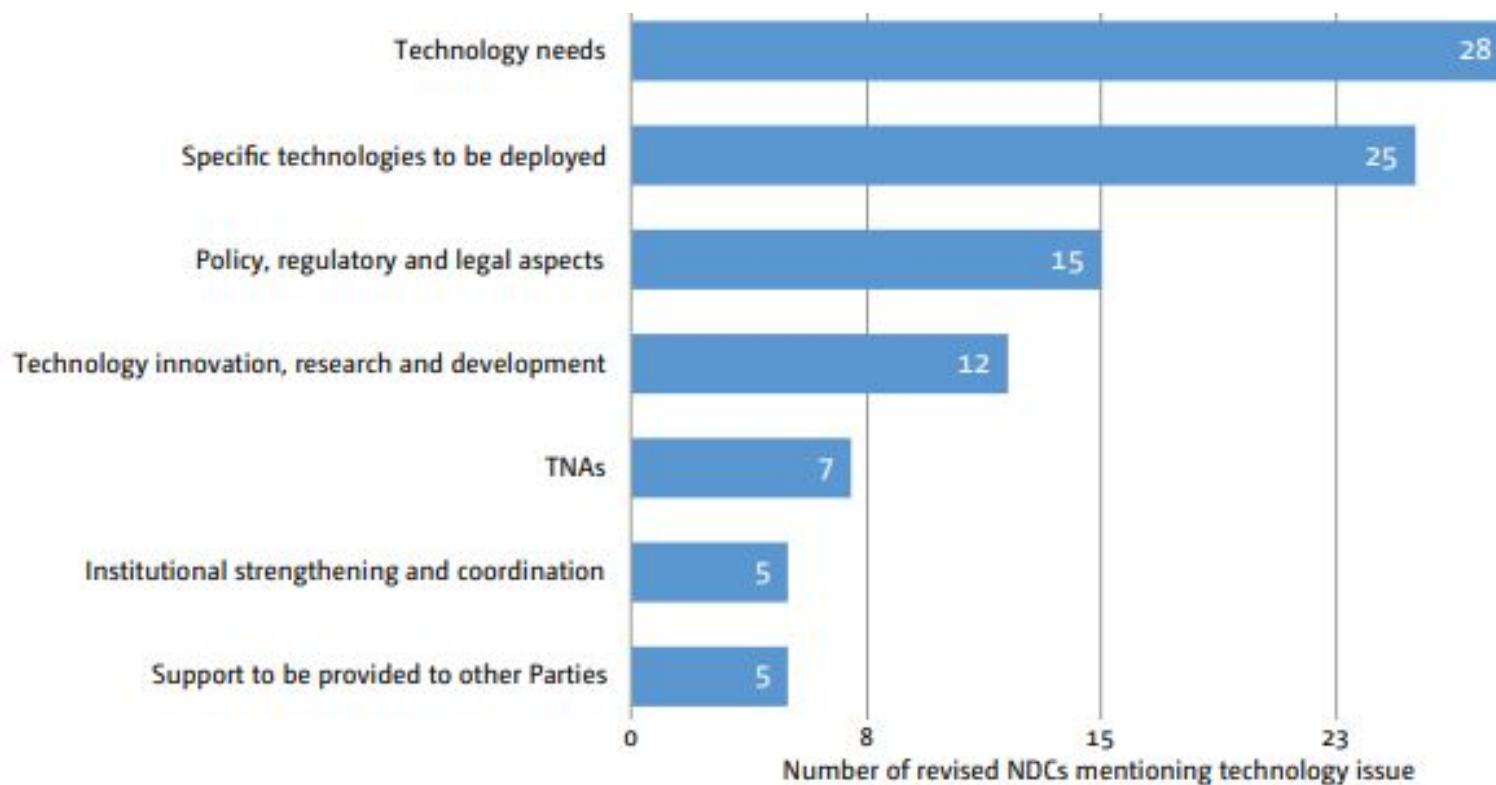
- Most NDCs (90 per cent) include information on technology

- 93 per cent include only qualitative information on technology aspects, while 37 per cent also include quantitative information
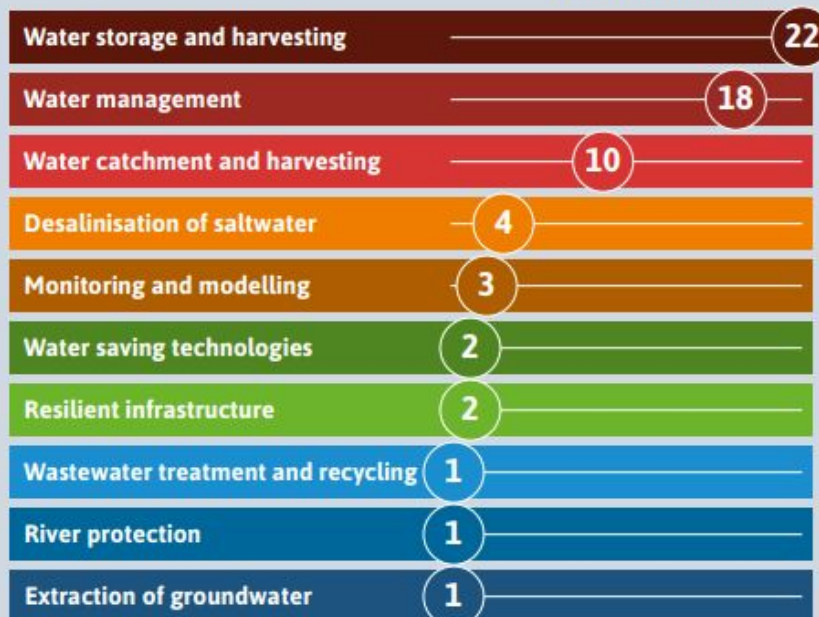
TNA Adaptation Priorities, Africa

TNA ADAPTATION PRIORITY SECTORS, 31 AFRICAN COUNTRIES

Number of sectors

Sector	Number
Water	29
Agriculture	29
Coastal zone	9
LULUCF & Forestry	6
Natural disasters	2
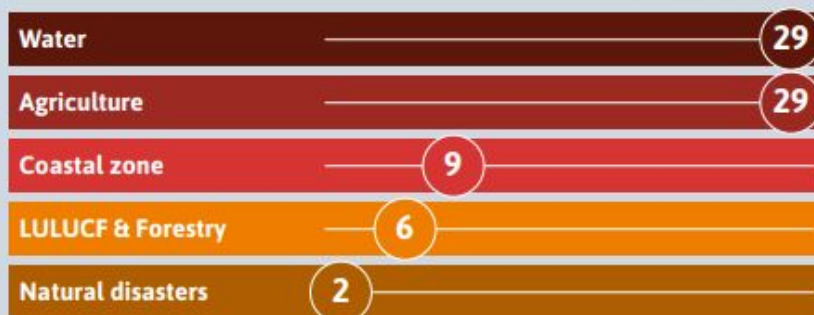
TECHNOLOGIES FOR ADAPATATION IN THE WATER SECTOR (27 AFRICAN COUNTRIES)

Number of technologies

Technology	Number
Water storage and harvesting	22
Water management	18
Water catchment and harvesting	10
Desalinisation of saltwater	4
Monitoring and modelling	3
Water saving technologies	2
Resilient infrastructure	2
Wastewater treatment and recycling	1
River protection	1
Extraction of groundwater	1

TECHNOLOGIES FOR ADAPTATION IN THE AGRICULTURE SECTOR (27 AFRICAN COUNTRIES)

Number of technologies

Technology	Number
Farming systems and crop management	20
Crop diversification and new varities	11
Drip irrigation	8
Soil management	8
Conservation agriculture	6
Food conservation	4
Agroforestry	4
Climate monitoring and forecasting	3
Livestock management	3
Waste recycling	2
Infrastructure and technology	2
Irrigation systems	2
Finance mechanism	1
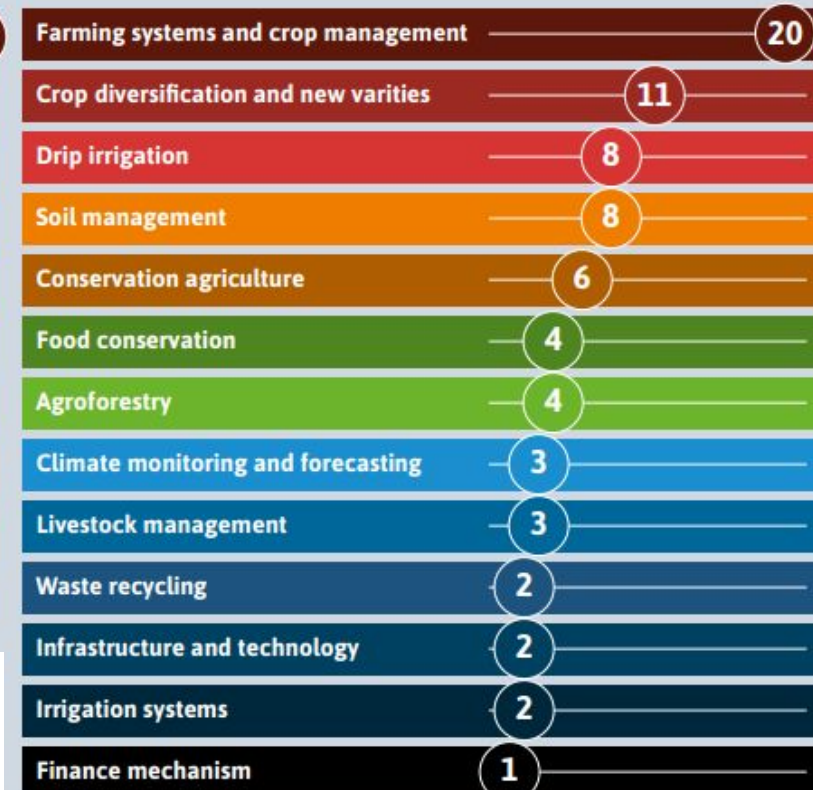
TNA Mitigation Priorities, Africa

TNA MITIGATION PRIORITY SECTORS, 31 AFRICAN COUNTRIES

Number of sectors

Sector	Number of sectors
Energy	30
LULUCF & Forestry	8
Waste management	7
Transport	5
Agriculture	3
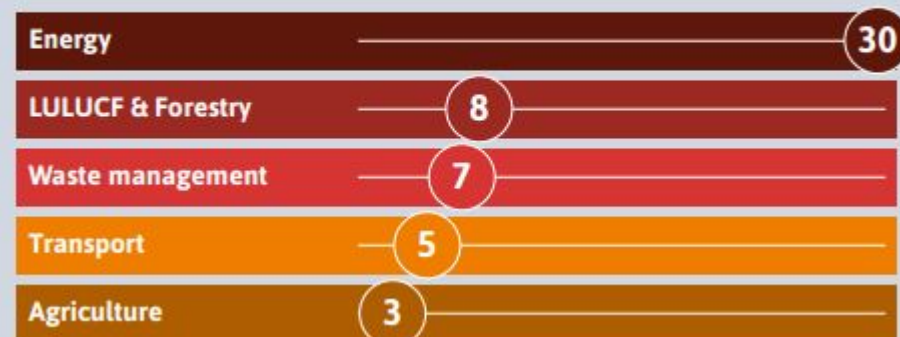
TECHNOLOGIES FOR MITIGATION IN THE ENERGY SECTOR (26 COUNTRIES)

Number of technologies

Technology	Number of technologies
Solar energy	29
Hydropower	14
Bioenergy	9
EE – Cooking stoves	7
EE – Buildings and lighting systems	5
Cogeneration	5
Wind energy	3
Waste to energy	3
Energy management	3
Geothermal energy	2
EE – Vehicles	2
EE – Power system and combustion	2
EE – Industry	1
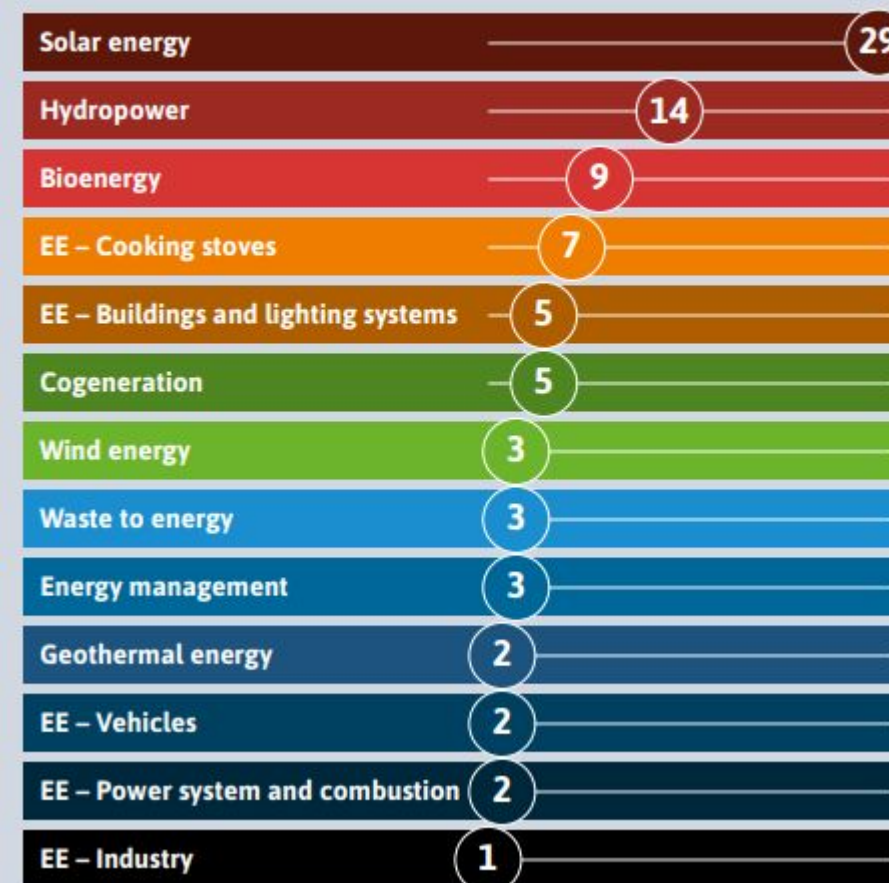
Technology and capacity building
- Lack of data availability to implement technologies in an informed way
- Economic and social viability of technologies is crucial for sustained impact
- No one-size-fits-all approach
- Lack of alignment and integration of climate change into national and sectorial policies hinder the implementation of NDCs

Regulations and governance
- Insufficient monitoring and evaluation systems
- Absence of clear policies on climate change, as well as policies that engage the private sector in climate projects

Financing
- Lack of financing, in particular for most vulnerable countries
- Inadequate knowledge and awareness on climate change hinder African countries from mobilizing resources

Opportunities

Clarity on priority sectors and technologies
- TNAs and NDCs provide clarity on priority sectors and technologies, as well as support needed along the technology development cycle

Clarity on funding gaps
- Analyses highlight regions and sectors where more financing is needed due to increased vulnerability
- Targeted financing can be provided

Collaboration and engagement opportunities
- Mechanisms for financing and technical assistance in place with large networks
- South-South-Collaboration as a vehicle to effectively transfer technologies and knowledge within a region with similar environments and needs
- Further engagement of private sector

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E DELLA TUTELA DEL TERRITORIO E DEL MARE

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Environment, Community and Local Government