

Climate Change Adaptation Local Government Climate Change Support Programme (LGCCSP) / Lets Respond Toolkit

National Climate Change Information System Training
Workshop

06 August 2019

Savoy Hotel, 19 De Beers Rd, City Centre, Kimberley



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA





environmental affairs

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SALGA
South African Local Government Association



cooperative governance

Department:
Cooperative Governance
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Local government Climate Change Policy mandate

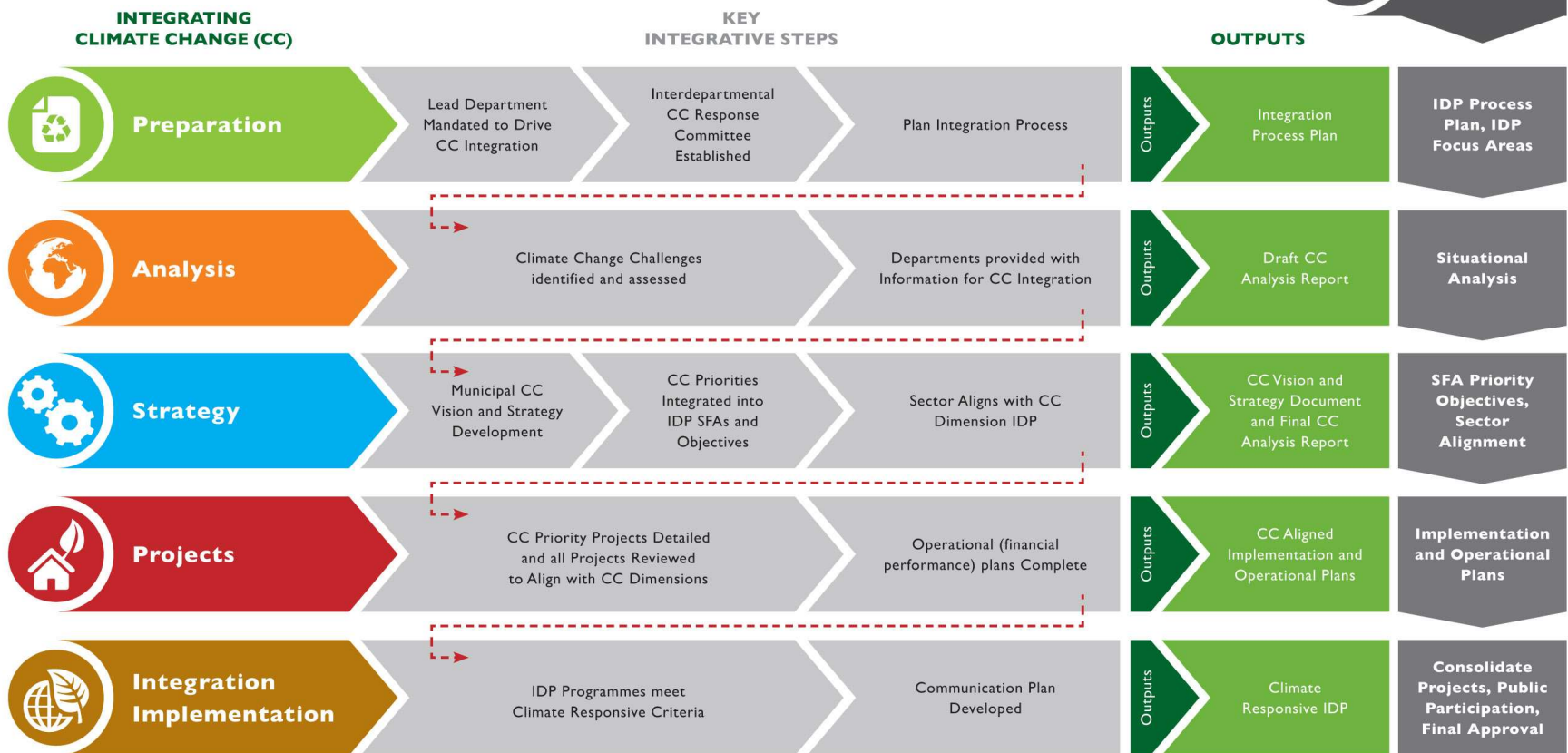


- Local government is tasked with the provision of services in a sustainable and equitable manner, the facilitation of socio-economic development and the promotion of a healthy environment for all. Climate change will impact on the ability of municipalities to meet these objectives
- The National Climate Change Response Policy recognises that much of the climate change adaptation and mitigation efforts will have to take place at municipal level and that the necessary support should be provided to municipalities to achieve sustainable development objectives
- The Department of Environmental Affairs, Department of Cooperative Governance and Traditional Affairs, South African Local Government Association, in partnership with the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) have developed a toolkit and guide that aims to support the integration of climate change response into municipal development planning tools such as IDP and municipal sector plans.



Introduction

Let's Respond: Integrating climate change response into Municipal IDPs



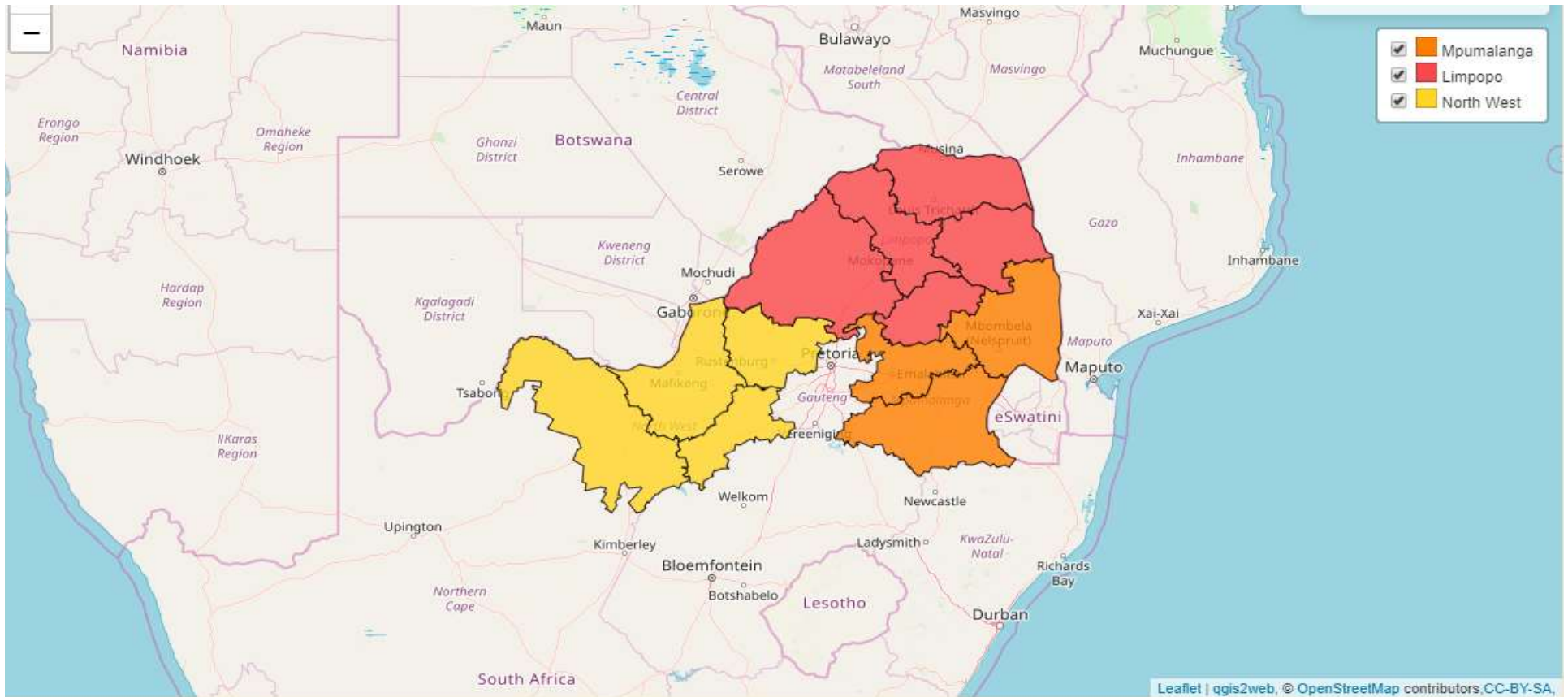


Local Government Climate Change Support Program phases I –III (IV)

LGCCSP Objectives

- Assessment of municipal landscape that provides the basis for responses.
- Build technical capacity of local government officials to conduct VA, develop adaptation responses, prioritise actions, develop implementation plans and mainstream CC adaptation into municipal IDPs, SDFs and municipal service delivery programmes;
 - Undertake climate risk and VA and identify response measures
 - Develop district CC adaptation strategies and action plans (only for Group A districts); and
 - Review and suggest recommendations for the improvement of existing strategies and action plans (DM's with CCRS/P).
- Facilitate capacity building and knowledge-transfer throughout the process so as to enhance implementation of the prioritised adaptation options.

LGCCSP PHASE I

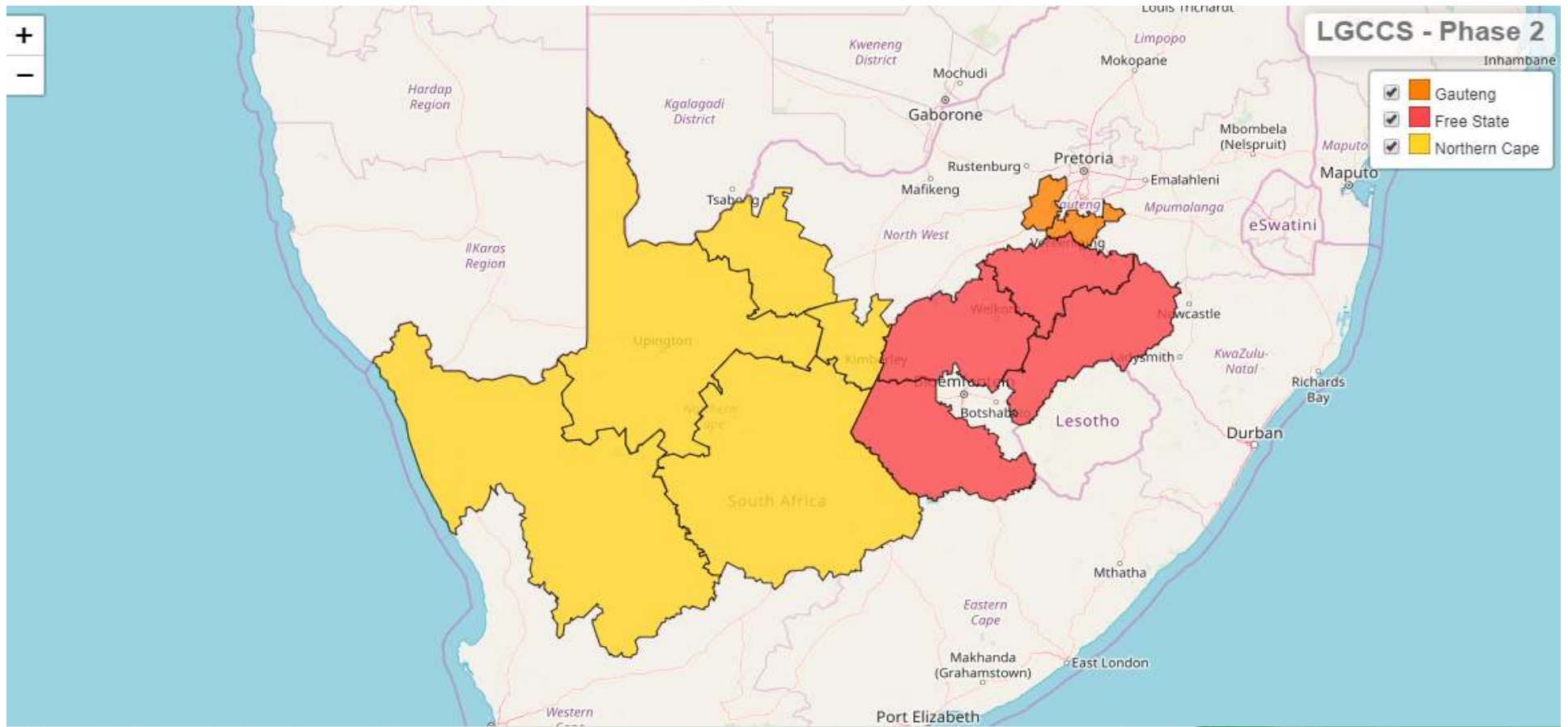


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LGCCSP PHASE II



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LGCCSP PHASE III

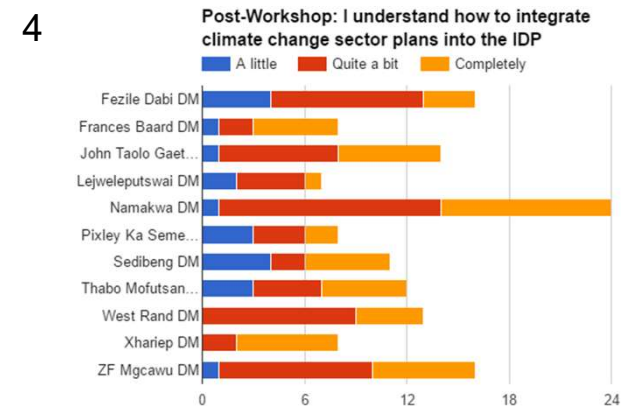
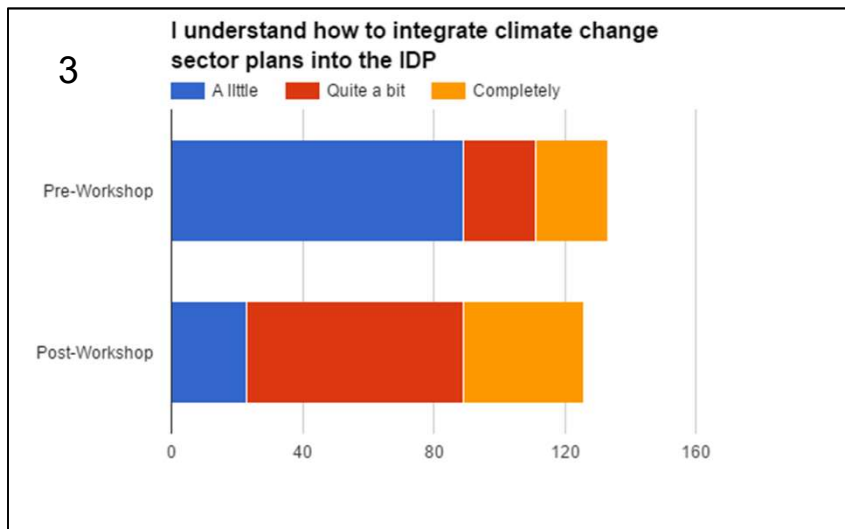
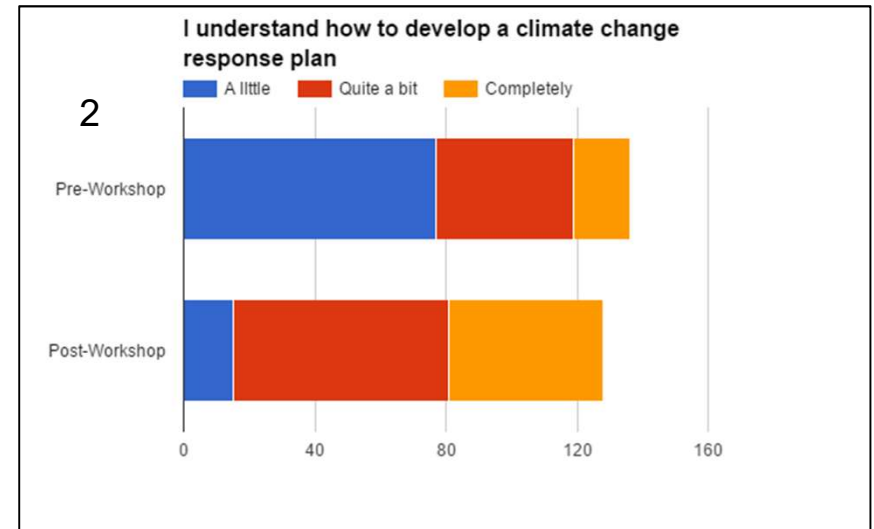
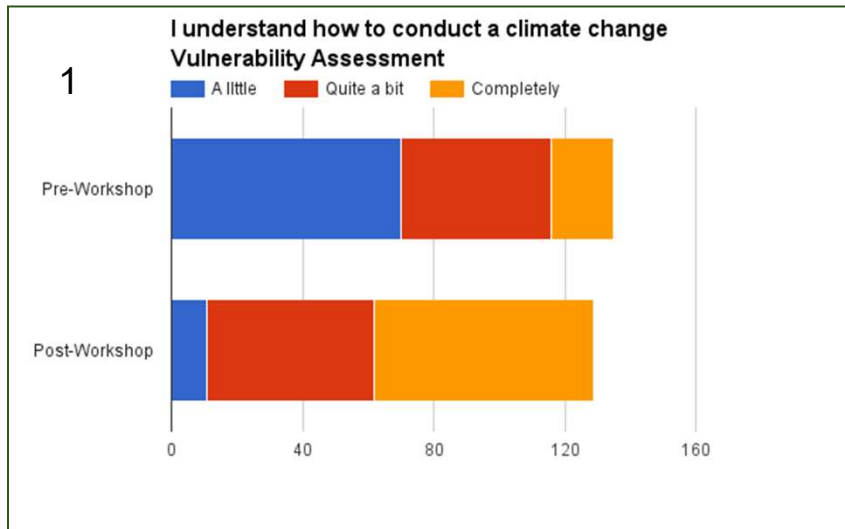


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LGCCSP PHASE II



LGCCSP Phase 3 Learning Report

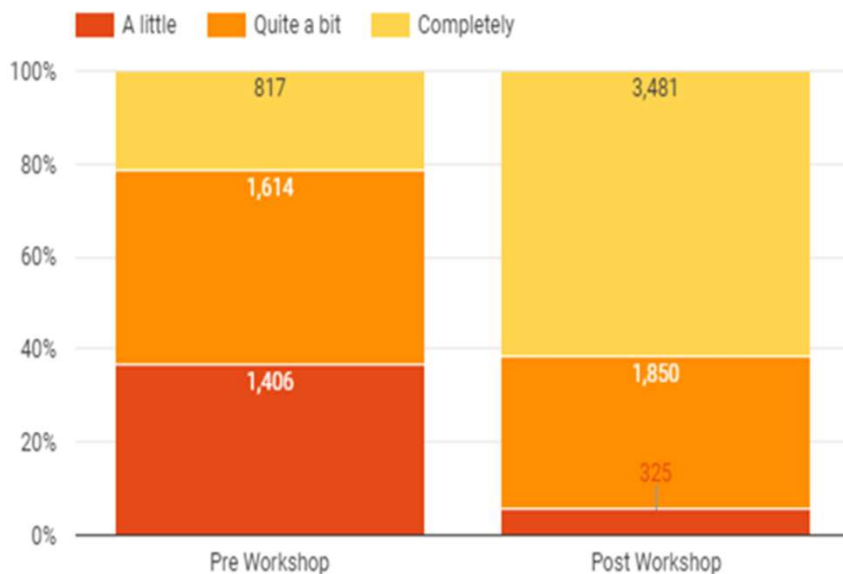
This report provides a summary of the stakeholder feedback received from the Provincial inception workshops and the District Municipality vulnerability assessment workshops held in the Eastern Cape, Western Cape and KwaZulu-Natal.

Select Workshop and Questions below

Phase

Workshop Name

Question



Overall Learning

Pre Workshop

Post Workshop

A little

1,406

A little

325

Completely

817

Completely

3,481

LET'S RESPOND

A TOOLKIT TO INTEGRATING CLIMATE CHANGE RISKS
AND OPPORTUNITIES INTO MUNICIPAL PLANNING

Lets Respond Toolkit Website

- Developed during LGCCSP Phase I and updated throughout until Phase III.
- The purpose of this website is to provide stakeholders with information and tools to respond to climate change at a local level in South Africa.
- An initiative of the Department of Environmental Affairs, SALGA and the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH (Including all other project partners).

Lets Respond Toolkit Website

A number of tools have been developed through the LGCCSP to assist stakeholders to respond to climate change:

- The Lets Respond Toolkit provides stakeholders with an introduction and overview on how to integrate climate change into municipal planning processes.
- The Vulnerability Assessment Toolkit provides stakeholders with a step by step process for conducting a Climate Change Vulnerability Assessment.
- The Climate Change Response Plan Templates can be used as a starting point to develop a municipal climate change response plan.
- Finally, the Stakeholder Engagement Toolkit outlines a set of steps for engaging stakeholders in the climate change planning process.
- This website also contains climate change related resources and information on each of the participating municipalities.
- This includes a range of climate change related maps, municipal census data relevant to climate change and project management information, such as workshop details and an events calendar.

Lets Respond Toolkit Website

Overview on how to integrate climate change into municipal planning processes.



Lets Respond Toolkit Website

The Vulnerability Assessment Toolkit provides stakeholders with a step by step process for conducting a Climate Change Vulnerability Assessment.

2. Vulnerability Assessment Tool

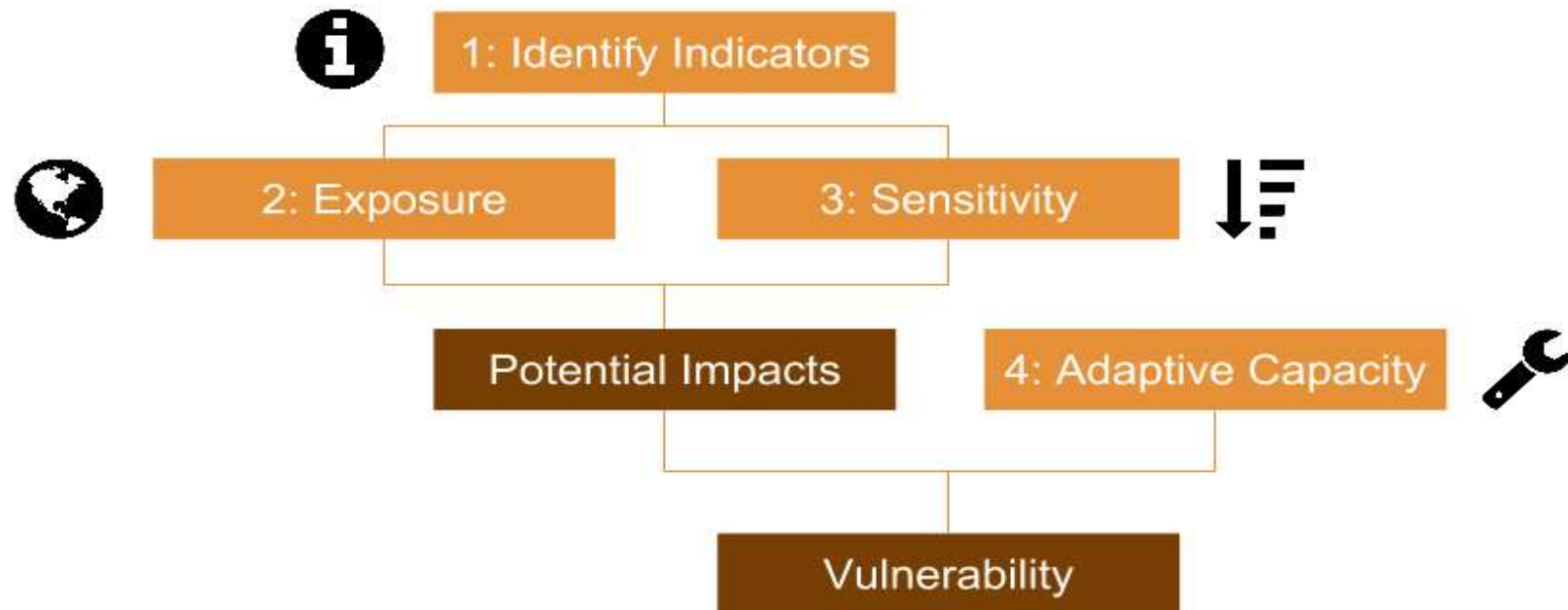


What is a climate change Vulnerability Assessment?

Lets Respond Toolkit Website

- Vulnerability Assessment excel sheet.
- Template guiding the undertaking a Vulnerability Assessment process.
- Populated with LTAS 1 & 2 guided indicators.
- Other material such as Census data etc.
- IPCC adopted Framework:

Vulnerability Assessment Methodology



Lets Respond Toolkit Website

Climate Change Response Plans






LET'S RESPOND
A TOOLKIT TO INTEGRATING CLIMATE CHANGE RISKS
AND OPPORTUNITIES INTO MUNICIPAL PLANNING

Search this site

Home1. Climate Change Introduction2. Vulnerability Assessment Tool3. Responses4. Municipalities5. Sectors6. Resources7. About

[3. Responses](#) > [3. Municipal Response Plans](#) >

NC Response Plans

	TITLE	LAST MODIFIED
	Frances Baard District Municipality CC Response Plan.docx	8/15/18 LetsRespond Toolkit
	John Taolo Gaetsewe District Municipality CC Response Plan...	8/15/18 LetsRespond Toolkit
	Namakwa District Municipality CC Response Plan.docx	8/15/18 LetsRespond Toolkit
	Pixley Ka Seme District Municipality CC Response Plan.docx	8/15/18 LetsRespond Toolkit
	ZF Mgcawu District Municipality CC Response Plan.docx	8/15/18 LetsRespond Toolkit

Lets Respond Toolkit Website

Stakeholder Engagement Toolkit

Presentation on how to secure stakeholder participation.

Stakeholder consultation plan template.

Stakeholder database template.

LET'S RESPOND
A TOOLKIT TO INTEGRATING CLIMATE CHANGE RISKS
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[3. Responses](#) >

1. Stakeholder Engagement

Stakeholder engagement is a crucial part of developing a climate change response plan. The following webpage provides tools and guidelines on how to ensure effective stakeholder consultation and input is achieved when developing climate change response plans.

Why do I need stakeholder input?

The need for government to consult with the public is enshrined in the Constitution as well is in the Batho Pele principles for Government. Section 152 of the constitution states:

"The objects of local government are [...] to encourage the involvement of communities and community organisations in the matters of local government."

Stakeholder consultation is also important because it can result in more robust policies and programs by ensuring

- Better alignment with other policies, programs and projects
- Broader buy-in when stakeholder are involved developing plan
- New ideas and new voices increase the scope of the plan

99

Lets Respond Toolkit Website

Climate change related resources and information on each of the participating municipalities

[Home](#) [1. Climate Change Introduction](#) [2. Vulnerability Assessment Tool](#) [3. Responses](#) [4. Municipalities](#) **[5. Sectors](#)** [6. Resources](#) [7. About](#)

5. Sectors

Climate change impacts on different sectors in different ways. The sections below provide details on the climate change impact and potential responses for different sectors in South Africa.



[Agriculture](#)



[Biodiversity and Ecosystems](#)



[Coastal and Marine](#)



[Disaster, Infrastructure and Human Settlements](#)



[Human Health](#)



[water](#)

Lets Respond Toolkit Website

Climate Change related maps, municipal census data relevant to climate change

[Home](#) | [1. Climate Change Introduction](#) | [2. Vulnerability Assessment Tool](#) | [3. Responses](#) | [4. Municipalities](#) | [5. Sectors](#) | **[6. Resources](#)** | [7. About](#)


6. Resources

There are a range of resources available to assist local government in developing Climate Change Response Plans:

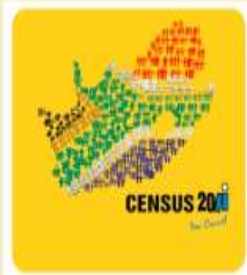
Resources

- [1. Maps](#)
- [2. Let's Respond Toolkit](#)
- [3. Long Term Adaptation Scenarios](#)
- [4. Census Data](#)
- [5. Workshop Materials](#)
- [6. Downloads](#)

[Long Term Adaptation Scenarios](#)



[Census Data](#)



Lets Respond Toolkit Website

Workshop material

[Home](#)

[1. Climate Change Introduction](#)

[2. Vulnerability Assessment Tool](#)

[3. Responses](#)

[6. Resources](#) >

5. Workshop Materials

LGCCS Workshop Tools

TITLE



LGCCS Facilitation Plans



LGCCS Workshop Handouts



LGCCS Workshop Presentations

Climate Change Adaptation Provincial Climate Change Interventions Program

National Climate Change Information System Training
Workshop

06 August 2019

Savoy Hotel, 19 De Beers Rd, City Centre, Kimberley



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National Climate Change Response Policy

VISION

Transition to a lower carbon and climate resilient society

OBJECTIVE

Manage CC impacts thru interventions that build & sustain SA's social, economic & environmental resilience and emergency response capacity

National
Climate Change
Response
Policy

OBJECTIVE

Make a fair contribution to the global effort to stabilize GHG concentrations.....

STRATEGIC APPROACH

Developmental
Transformational and participatory
Needs driven and customised
Dynamic and evidence based
Informed decision-making

Provincial and Local government Climate Change Policy mandate

- Each province will develop a climate response strategy, which evaluates provincial climate risks and impacts and seeks to give effect to the National Climate Change Response Policy at provincial level.
- Local government plays a crucial role in building climate resilience through **planning human settlements and urban development**; the provision of municipal **infrastructure and services**; **water and energy** demand management; and local **disaster response**, amongst others.
- Climate change considerations and constraints will be integrated into municipal development planning tools such as Integrated Development Plans, and municipal service delivery programmes.

Provincial Climate Change Interventions Program Aims

“Assist 6 provincial governments in addressing water-related climate risks by developing funding project proposals (technical and financial) for various climate change adaptation interventions”



Objectives

1. Undertake a background analysis:
 - a. Desktop review,
 - b. Interviews and
 - c. Site visits seeking
2. Develop a project proposal (conceptual and technical);
3. Provide cradle-to-grave costing for each identified intervention/project
4. Develop a step-by-step how-to guide/manual that provides the process followed when developing each of the project proposals.

Program Scope and Deliverables

Task: “Develop six (6) thorough technical proposals and comprehensive budgets (which are tailored to the chosen funding agency).”

Deliverable: “Six (6) technical project proposals and comprehensive budget”



Gauteng - Conversion of polluted wetlands to constructed wetlands in townships

Concept:

Support GDARD to develop a detailed funding proposal for the reconstruction of selected degraded wetland/s in township areas in the Gauteng area (Sustainable Drainage Systems).



Gauteng - Conversion of polluted wetlands to constructed wetlands in townships

Original Scope - Tasks

- An analysis of the most appropriate sites as interpreted from the Province's vulnerability mapping
- An analysis of hydrogeological and pollution load to select appropriate sites for constructed wetlands
- Proposed wetland design with justification
- Wetland vegetation identified for each site
- Estimates on economic spin-offs from the project such as job creation

Revised Scope - Tasks

- An initial site visit and analysis of the most appropriate sites as identified from the parallel sustainable urban drainage systems (SUDS) research
- Two additional provincial project steering committee meetings
- Additional research on strengthening of the climate rationale on the project relating to hazards and risks
- Additional research on understanding the "pollution" rationale or pathways in relation to water quality
- Additional research on cost benefit analysis
- Conduct site visit as part of the cost benefit analysis research
- Additional research on alternatives to the proposed hard infrastructure project.
- Conduct stakeholder interviews as part of the additional research requirements.
- Revise desktop research report

Mpumalanga - Rainwater harvesting in primary schools to support food gardens

Concept:

Support to DARDLEA in developing a funding proposal and implementation guidelines for rainwater harvesting systems to supply food gardens in six schools across the Mpumalanga province.



Mpumalanga - Rainwater harvesting in primary schools to support food gardens

- Assess types of roof designs of six primary schools in three District Municipalities
- Recommend with justification for the type of irrigation system linked to the rainwater harvesting technology and system for household food gardens.
- Provide an economic assessment on the improvement to each household's cost-of-living with and without the proposed intervention.
- The overall costing for the technology and the system for each school.
- Conduct six school level project steering committee meetings combined with site visits to better conceptualise the intervention at each school
- Attend one additional provincial project steering committee meeting
- Develop a model for different types of schools that can be replicated throughout the province.
- Use costing from 6 schools to estimate costs for a provincial wide schools fund application
- Cost report that includes detailed costs for the 6 schools and estimates for all primary schools in the province.

Northern Cape - Exploring innovations for alternative water sources

Concept:

Support to the Northern Cape DENC to develop a funding proposal for the sourcing and usage of groundwater for 186 communities (approximately 3,000 households) in the John Taolo Gaetsewe (JTG) District Municipality in the province of the Northern Cape.



Northern Cape - Exploring innovations for alternative water sources

- Undertake a groundwater viability (ground water table) assessment for the identified sites of +/- 3000 households in 1 District Municipality.
- Define step-by-step process of borehole installation.
- The overall costing for the technology and the system for each household connection. In addition complete costing of the drilling of borehole(s) should be calculated.
- Conducting a literature study that lists, outlines and describes previous research initiatives in the area. The study should provide a summary of the surface water and groundwater profiles in the area.
- Stakeholder Interviews to further understand research gaps
- Define boundary for the study area using outcomes from initial research
- Revise desktop research report including a draft structure for a water management plan.

North West - Developing a Water Plan within and surrounding Marico Biosphere Reserve

Concept:

Support NW READ in developing a detailed funding proposal for a Management Plan of water resources in and around the Marico Biosphere Reserve.



North West - Developing a Water Plan within and surrounding Marico Biosphere Reserve

- Conducting a literature study that lists, outlines and describes previous research initiatives in the area. The study should also provide a summary of “Working for Wetlands” projects in the area.
- Overview of the ecological infrastructure and assessment of “aquatic” ecosystem conditions through undertaking a situational analysis:
- Conducting a literature study that lists, outlines and describes previous research initiatives in the area. The study should provide a summary of the surface water and groundwater profiles in the area.
- Stakeholder Interviews to further understand research gaps
- Define boundary for the study area using outcomes from initial research
- One additional provincial project steering committee meeting
- Revise desktop research report including a draft structure for a water management plan.

KwaZulu-Natal - Fund application for alternative water sources for households

Concept:

Support to KZNEDTEA to develop a detailed funding proposal for alternative water sources for households in selected wards in KZN.



KwaZulu-Natal - Fund application for alternative water sources for households

- Assessment of roof designs required for the 1000 households identified and the type of rainwater harvesting technologies applicable for these roof types. In addition, the type and size of applicable tanking system should be determined and calculated. Should multiple technologies be applicable, details should be provided and costed against this.
- Recommend with justification for the type of irrigation system linked to the rainwater harvesting technology and system for household food gardens.
- Provide an economic assessment on the improvement to each household's cost-of-living with and without the proposed intervention.
- The overall costing for the technology and the system for each household.
- Conducting a literature study that prioritise climate stressed areas within the province to help identify areas that could be included in the fund application.
- Set up one additional provincial project steering committee meeting
- Attend the provincial disaster management forum meeting
- Set up meeting with COGTA to present the project.
- Conduct site visits to assess 3 areas that are shortlisted as part of the research.
- Revise desktop research report including prioritised areas.

Limpopo - Rainwater harvesting & food gardens in 1,000 households

Concept:

Support to the LEDET to develop a detailed funding proposal for a pilot program to roll out rainwater harvesting for food gardens within the five district municipalities (for 200 households per district) across the province of Limpopo.



Limpopo - Rainwater harvesting & food gardens in 1,000 households

- Assessment of roof designs required for the 1000 households identified and the type of rainwater harvesting technologies applicable for these roof types. In addition, the type and size of applicable tanking system should be determined and calculated. Should multiple technologies be applicable, details should be provided and costed against this.
- Recommend with justification for the type of irrigation system linked to the rainwater harvesting technology and system for household food gardens.
- Provide an economic assessment on the improvement to each household's cost-of-living with and without the proposed intervention.
- The overall costing for the technology and the system for each household.
- Conducting a literature study that prioritise climate stressed areas within the province to help identify areas that could be included in the fund application.
- Assess groundwater potential in the province as an alternative water source to rainwater
- Attend one additional provincial project steering committee meeting
- Revise desktop research report including prioritised areas.

Scope revision.

- Develop six (6) thorough technical proposals and comprehensive budgets (which are tailored to the chosen funding agency).
- Develop four concept notes with estimate operational and capital budgets (Gauteng, Limpopo, KwaZulu-Natal and Mpumalanga)
- Develop two terms of reference for the development of an integrated water management plan (North West and Northern Cape).

Original Scope - Deliverables

- Six (6) technical project proposals and comprehensive budget

Revised Scope - Deliverables

- Four Concept Notes
- Two Terms of Reference

Project partners.

**Department of Water and
Sanitation**

**Department of Environmental
Affairs (GIZ)**

Department of Human Settlements

**Department of Rural Development
and Land Reform**

**Department Agriculture, Forestry
and Fisheries**

**Provincial Department of
Environmental Affairs**



