Johannesburg, South Africa

Local progress report on the implementation of the 10 Essentials for Making Cities Resilient (First Cycle)

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Essential 1

Put in place organization and coordination to understand and reduce disaster risk, based on participation of citizen groups and civil society. Build local alliances. Ensure that all departments understand their role to disaster risk reduction and preparedness.

How well are local organizations (including local government) equipped with capacities (knowledge, experience, official mandate) for disaster risk reduction and climate change adaptation?

Level of Progress achieved: 4

Description of Progress & Achievements:

These plans make recommendations in respect of appropriate institutional arrangements, special prevention and protection measures, required by?law and service system changes and improvements, and any essential upgrading of key network infrastructure

To what extent do partnerships exist between communities, private sector and local authorities to reduce risk?

Level of Progress achieved: 4

Description of Progress & Achievements:

Building on the work of the Strategic Interest Group, a standing Stakeholder Working Group with representatives from key private and public sector institutions within the inner city was established. In consultation with this Group, priority disaster prevention, management and mitigation plans and actions catering specifically for the city was developed and incorporated into the City's Disaster Management Plans.

How much does the local government support vulnerable local communities (particularly women, elderly, infirmed, children) to actively participate in risk reduction decision-making, policy making,

planning and implementation processes?

Level of Progress achieved: 5

Description of Progress & Achievements:

Communication with vulnerable communities has improved to prevent flood disasters, the Disaster Management, Environmental Management and other affected Departments has developed a new participatory system ‘Joburg Flood Risk Communication Support System’. This system includes three support functions; i.e. a learning support system for flood risk literacy, making a choice of flood disaster mitigation measures, and supporting to hold workshops on Flood control measures, this aims at educating communities on how to prepare against severe large?scale flood damage and to identify problems that could occur during normal times; such as an emergency, a disaster, and the recovery phase and possible countermeasures to each problem. A second workshop was on on Hazard maps, the purpose of the was to explain what information can be obtained from a hazard map, how a hazard map can be used, and to discuss local area community awareness of disasters and preventive action. Flood risk communication with vulnerable communities is currently and an ongoing exchange of information and opinion about flood risk among individuals and groups. Conventional risk transmission will also be used as means to communicate; this is more of a one?way information communication process from experts to local area residents. Therefore, for a Metropolitan City such as Joburg three aspects of flood risk communication require careful consideration: 1) instead of information being provided in one direction only, there should be a two?way exchange of information and opinions; 2) an expert will be required to provide enough information to non?experts for them to make reasonable choice among proposed measures; and 3) Building a trusting relationship.

To what extent does the local government participate in the national DRR planning?

Level of Progress achieved: 4

Description of Progress & Achievements:

Within the City's evolving Disaster Management Plans the critical importance of the city to the ongoing daily functioning of the national economy will be recognised

Essential 2

Assign a budget for disaster risk reduction and provide incentives for homeowners, low-income families, communities, businesses and public sector to invest in reducing the risks they face.

How far does the local government have access to adequate financial resources to carry out risk reduction activities?

Level of Progress achieved: 2

Description of Progress & Achievements:

City's Financial unit ensures that disaster plans are compiled and maintained in its service, with specific reference to the following

To what degree does the local government allocate sufficient financial resources to carry out DRR activities, including effective disaster response and recovery?

Level of Progress achieved: 2

Description of Progress & Achievements:

Compilation of pro?active departmental disaster management programmes to support risk reduction or elimination;

What is the scope of financial services (e.g. saving and credit schemes, macro and micro-insurance) available to vulnerable and marginalised households for pre- disaster times?

Level of Progress achieved: 2

Description of Progress & Achievements:

Supplying resources for disaster management purposes as requested by the Executive Management Team

To what extent are micro finance, cash aid, soft loans, lone guarantees etc available to affected households after disasters to restart livelihoods?

Level of Progress achieved: 2

Description of Progress & Achievements:

Supplying resources for disaster management purposes as requested by the Executive Management Team

How well established are economic incentives for investing in disaster risk reduction for households and businesses (e.g. reduced insurance premiums for households, tax holidays for businesses)?

Level of Progress achieved: 2

Description of Progress & Achievements:

situations;Managing donations for emergency response Facilitating emergency procurement;Initiating and facilitating efforts to make funds available for disaster Management in the municipal area

To what extent do local business associations, such as chambers of commerce and similar, support efforts of small enterprises for business continuity during and after disasters?

Level of Progress achieved: 2

Description of Progress & Achievements:

Compilation of reactive departmental disaster management plans to ensure service continuation during emergency/disaster situations

Essential 3

Maintain up-to-date data on hazards and vulnerabilities, prepare risk assessments and use these as the basis for urban development plans and decisions. Ensure that this information and the plans for your city's resilience are readily available to the public and fully discussed with them.

To what degree does the local government conducted thorough disaster risk assessments for key vulnerable development sectors in your local authority?

Level of Progress achieved: 5

Description of Progress & Achievements:

The City of Johannesburg has undertaken a climate change risk and vulnerability assessments to adapt to, and improve its resilience to possible climate change impacts and to inform its adaptation plan that will lead to the adoption of some “no?regrets” adaptation actions. The assessment of these impacts provides an insight on how to situate vulnerability, disaster risk and climate change adaptation efforts within the relevant legislative and policy frameworks to understand how these are relevant to the City’s communities.

To what extent are these risk assessments regularly updated, e.g. annually or on a bi-annual basis?

Level of Progress achieved: 4

Description of Progress & Achievements:

no detials available

How regularly does the local government communicate to the community, information on local hazard trends and risk reduction measures (e.g. using a Risk Communications Plan) including early

warnings of likely hazard impact?

Level of Progress achieved: 4

Description of Progress & Achievements:

The City of Johannesburg is addressing climate change adaptation through considerations that can be integrated into policies, guidelines, programs, strategies and civic society in numerous sectors at a number of different levels, especially the community level. At the local level, the local strategies for preparing and responding to the anticipated impacts of climate change can be built into municipal planning processes and community level strategies, covering risk assessment practices, community social services, and emergency preparedness programs (African Development Bank (AfDB et al, 2002)) and reducing the barriers to communication through sharing information and feedback that provides positive reinforcement.

How well are local government risk assessments linked to, and supportive of, risk assessments from neighbouring local authorities and state or provincial government risk management plans?

Level of Progress achieved: 4

Description of Progress & Achievements:

Based on current, known resilience levels and control measures, critical risks for the municipality have been identified as well as ways in which all city stakeholders could respond to them.

How well are disaster risk assessments incorporated into all relevant local development planning on a consistent basis?

Level of Progress achieved: 5

Description of Progress & Achievements:

The City of Johannesburg is addressing climate change adaptation through considerations that can be integrated into policies, guidelines, programs, strategies

and civic society in numerous sectors at a number of different levels, especially the community level. At the local level, the local strategies for preparing and responding to the anticipated impacts of climate change can be built into municipal planning processes and community level strategies, covering risk assessment practices, community social services, and emergency preparedness programs (African Development Bank (AfDB et al, 2002)) and reducing the barriers to communication through sharing information and feedback that provides positive reinforcement.

Essential 4

Invest in and maintain critical infrastructure that reduces risk, such as flood drainage, adjusted where needed to cope with climate change.

How far do land use policies and planning regulations for housing and development infrastructure take current and projected disaster risk (including climate related risks) into account?

Level of Progress achieved: 3

Housing	No
Communication	No
Transportation	No
Energy	No

Description of Progress & Achievements:

Cost?Benefit analysis that is aligned with the objectives of the climate chnage adaptation plan as a basis for the vulnerability assessments is being conducted.An improvement is required to do these analyses as proactive measure rather than reactive.

How adequately are critical public facilities and infrastructure located in high risk areas assessed for all hazard risks and safety?

Level of Progress achieved: 4

Description of Progress & Achievements:

Cost?Benefit analysis that is aligned with the objectives of the climate chnage adaptation plan as a basis for the vulnerability assessments is being conducted.An improvement is required to do these analyses as proactive measure rather than reactive.

How adequate are the measures that are being undertaken to protect critical public facilities and infrastructure from damage during disasters?

Level of Progress achieved: 3

Description of Progress & Achievements:

Cost?Benefit analysis that is aligned with the objectives of the climate chnage adaptation plan as a basis for the vulnerability assessments is being conducted.An improvement is required to do these analyses as proactive measure rather than reactive.

Essential 5

Assess the safety of all schools and health facilities and upgrade these as necessary.

To what extent have local schools, hospitals and health facilities received special attention for "all hazard" risk assessments in your local authority?

Level of Progress achieved: 3

Schools	Yes
Hospitals/ health facilities	Yes

Description of Progress & Achievements:

Some of the schools and hospitals have special programmes on safety

How safe are all main schools, hospitals and health facilities from disasters so that they have the ability to remain operational during emergencies?

Level of Progress achieved: 5

Schools	Yes
Hospitals/ health facilities	Yes

Description of Progress & Achievements:

Some of the schools and hospitals have special programmes on safety

To what degree do local government or other levels of government have special programs in place to regularly assess schools,

hospitals and health facilities for maintenance, compliance with building codes, general safety, weather-related risks etc.?

Level of Progress achieved: 2

Schools	Yes
Hospitals/ health facilities	Yes

Description of Progress & Achievements:

Some of the schools and hospitals have special programmes on safety

How far are regular disaster preparedness drills undertaken in schools, hospitals and health facilities?

Level of Progress achieved: 2

Schools	Yes
Hospitals/ health facilities	Yes

Description of Progress & Achievements:

Some of the schools and hospitals have special programmes on safety

Essential 6

Apply and enforce realistic, risk compliant building regulations and land use planning principles. Identify safe land for low-income citizens and develop upgrading of informal settlements, wherever feasible.

How well are risk-sensitive land use regulations and building codes, health and safety codes enforced across all development zones and building types?

Level of Progress achieved: 3

Description of Progress & Achievements:

There are existing building codes and regulations, the city is considering intergrating climate change adaptation into programmes to reduce risks from disasters and other environmental hazards through building into sectoral planning processes such as infrastructure design and maintenance codes and standards.

How strong are existing regulations (e.g. land use plans, building codes etc) to support disaster risk reduction in your local authority?

Level of Progress achieved: 5

Description of Progress & Achievements:

There are existing building codes and regulations, the city is considering intergrating climate change adaptation into programmes to reduce risks from disasters and other environmental hazards through building into sectoral planning processes such as infrastructure design and maintenance codes and standards.

Essential 7

Ensure education programmes & training on disaster risk reduction are in place in schools and communities.

How regularly does the local government conduct awareness-building or education programs on DRR and disaster preparedness for local communities?

Level of Progress achieved: 5

Programs include cultural diversity issues	No
Programs are sensitive to gender perspectives	No

Description of Progress & Achievements:

A number of education and awareness programmes are ongoing on disaster management, community based adaptation and early warning systems for schools, community leaders and communities at large, also in line with the "Making Cities Resilient Campain", championed by the Provicial Disaster Management Centre.

To what extent does the local government provide training in risk reduction for local officials and community leaders?

Level of Progress achieved: 4

Description of Progress & Achievements:

no details available

To what degree do local schools and colleges include courses, education or training in disaster risk reduction (including climate related risks) as part of the education curriculum?

Level of Progress achieved: 4

Description of Progress & Achievements:

no details available

How aware are citizens of evacuation plans or drills for evacuations when necessary?

Level of Progress achieved: 3

Description of Progress & Achievements:

no details available

Essential 8

Protect ecosystems and natural buffers to mitigate floods, storm surges and other hazards to which your city may be vulnerable. Adapt to climate change by building on good risk reduction practices.

How well integrated are local government DRR policies, strategies and implementation plans with existing environmental development and natural resource management plans?

Level of Progress achieved: 4

Description of Progress & Achievements:

no details available

To what degree does the local government support the restoration, protection and sustainable management of ecosystems services?

Level of Progress achieved: 5

Forests	No
Coastal zones	No
Wetlands	Yes
Water resources	Yes
River basins	No
Fisheries	No

Description of Progress & Achievements:

The City of Johanesburg identified a need to refine the wetland audit and to develop a

wetland protection and management plan within the Johannesburg Metropolitan area. • The scope of this work includes: – Consolidation and refinement of the information from the wetland audit and other sources of information; – Classification of wetlands according to their health, conservation status and role withinthe City; – Determination of conservation priorities and targets in the municipality, taking cognizance of loss of wetland types etcIdentification of critical buffers, linkages and/or feeder systems that need to be protected or restored (e.g. Groundwater systems, perched aquifers, seeps zones, springs and etc.

How much do civil society organizations and citizens participate in the restoration, protection and sustainable management of ecosystems services?

Level of Progress achieved: 4

Description of Progress & Achievements:

Determination and recommendations on priority management, mitigation and/or rehabilitation interventions necessary to ensure the viability of city?wide sustainable wetland systems to provide environmental goods and services and adapting to climate change and building resilience to its impacts and related hazards.

How much does the private sector participate in the implementation of environmental and ecosystems management plans in your local authority?

Level of Progress achieved: 3

Description of Progress & Achievements:

Determination and recommendations on priority management, mitigation and/or rehabilitation interventions necessary to ensure the viability of city?wide sustainable wetland systems to provide environmental goods and services and adapting to climate change and building resilience to its impacts and related hazards.

Essential 9

Install early warning systems and emergency management capacities in your city and hold regular public preparedness drills.

To what degree do local institutions have access to financial reserves to support effective disaster response and early recovery?

Level of Progress achieved: 2

Description of Progress & Achievements:

The previous recent devastating floods in Johannesburg's communities demonstrated city's vulnerability to climate risk and emphasized how important it is to protect the city from possible future changes to the city's climate. Current disaster mitigation and climate change adaptation interventions include inter alia mapping out of flood prone areas, development of early warning systems of climatic disasters, public awareness raising programmes and campaigns

To what extent are early warning centres established, adequately staffed (or on-call personnel) and well resourced (power back ups, equipment redundancy etc) at all times?

Level of Progress achieved: 3

Description of Progress & Achievements:

no details available

How much do warning systems allow for adequate community participation?

Level of Progress achieved: 1

Description of Progress & Achievements:

no details available

To what extent does the local government have an emergency operations centre (EOC) and/or an emergency communication system?

Level of Progress achieved: 5

Description of Progress & Achievements:

no details available

How regularly are training drills and rehearsal carried out with the participation of relevant government, non-governmental, local leaders and volunteers?

Level of Progress achieved: 3

Description of Progress & Achievements:

no details available

How available are key resources for effective response, such as emergency supplies, emergency shelters, identified evacuation routes and contingency plans at all times?

Level of Progress achieved: 4

Stockpiles of relief supplies	Yes
Emergency shelters	Yes

Safe evacuation routes identified	Yes
Contingency plan or community disaster preparedness plan for all major hazards	Yes

Description of Progress & Achievements:

no details available

Essential 10

After any disaster, ensure that the needs of the survivors are placed at the centre of reconstruction with support for them and their community organizations to design and help implement responses, including rebuilding homes and livelihoods.

How much access does the local government have to resources and expertise to assist victims of psycho-social (psychological, emotional) impacts of disasters?

Level of Progress achieved: 4

Description of Progress & Achievements:

no details available

How well are disaster risk reduction measures integrated into post-disaster recovery and rehabilitation activities (i.e. build back better, livelihoods rehabilitation)?

Level of Progress achieved: 5

Description of Progress & Achievements:

The City has put measures in place for disaster affected and vulnerable communities such as clearing of human settlements from flood boundaries, especially informal settlements,Improving on existing stormwater reticulation in areas of concern through construction of retention dams and repair of damaged infrastructure City officials and volunteer teams conduct emergency relief work following the devastating disasters,Clean?up operation and debris like sand, soil, stones and bricks removal,and volunteer organisations such as Red Cross etc.come into play to assist.

To what degree does the Contingency Plan (or similar plan) include an outline strategy for post disaster recovery and reconstruction, including needs assessments and livelihoods rehabilitation?

Level of Progress achieved: 4

Description of Progress & Achievements:

no details available