

Open NAP Master

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Abstract

The Open NAP master is a general NAP developed based on best available IPCC science and other high quality science products covering sectors and systems typically encountered in development countries when developing National Adaptation Plans. One thing that is obvious from the extensive IPCC 5AR is the immense knowledge of how climate change impacts different systems and sectors, and how similar those impacts are between countries. It is unlikely we will discover new impacts or improve our basic understanding of climate change in order to develop improved adaptation plans. It is also clear that doing more and more generic impact or vulnerability assessments will have limited value - we can now take as known and accepted that things like droughts, floods etc will have negative impacts, and will get worse as climate continues to change, and that any given system will be impacted by multiple hazards, climate-related and others.

The next frontier seems to be how to use the knowledge we have to design effective adaptation responses. In this exercise, we build on the collective knowledge that exists now, to design a general NAP that can be applied as an entry point for any country.

Executive Summary

This chapter will contain a summary of the NAP containing the key priorities to be communicated.

Risk Continuum between drr, adaptation and L&D

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Developing a collection of systems for adaptation taking into account SDGs, Sendai Framework, urban systems and other relevant frameworks

Introduction to a systems approach

XXX XXXX

A master collection of systems

Mapping systems to the SDGs

Collection of systems for cities and other scopes

Table of systems and annotations: LIST OF MAIN SYSTEMS: Results of Nairobi Workshop, 2-6 Sept 2019

MEGASYSTEM: Disaster Risk - Human safety and well-being

SYSTEM: River bank flooding as a planning system

SYSTEM: Urban flooding as a planning system

SYSTEM: Major storms (cyclones) as a planning system

SYSTEM: Lightning as a planning system

SYSTEM: Heat waves as a planning system

SYSTEM: Landslides as a planning system

MEGASYSTEM: Food Security

Food Availability

General Food Crop Production

SYSTEM: Crop production (species, inputs, crop pests and disease (locust, army worm, others))

SYSTEM: Post-harvest food processing

SYSTEM: Post-harvest food storage

SYSTEM Individual Crop Production – subsistence: maize, rice

SYSTEM: National Strategic Grain Reserve

Food Access

SYSTEM: Access to food on sale

SYSTEM: Food commodity trade: local, national and international

SYSTEM: Urban food supply chains

Food Utilization

SYSTEM: Food affordability

Food stability

SYSTEM: Food availability contingency measures

MEGASYSTEM: Commercial Agriculture

SYSTEM: Crop commodities

SYSTEM: Crop commodity: Maize supply chain – Production, Processing, packaging, storage, Distribution, Retail

SYSTEM: Crop commodity: Coffee supply chain; Tea; tobacco; banana

SYSTEM: Meat supply chain: Beef supply chain – Production, Processing, packaging, storage, Distribution, Retail

SYSTEM: Eggs supply chain – Production, Processing, packaging, storage, Distribution, Retail

SYSTEM: Milk supply chain – Production, Processing, packaging, storage, Distribution, Retail

SYSTEM: Commercial fisheries

SYSTEM: Small scale and artesian inland freshwater fisheries (lakes, dams, rivers)

SYSTEM: Commercial lake and dam fisheries

SYSTEM: Individual Fish Species; Tilapia, Cichlids

MEGASYSTEM: Land use

SYSTEM: National physical/spatial master plans

MEGASYSTEM: Water Resources

Available water resources

SYSTEM: Riven basin water balance system

SYSTEM: National underground aquifer systems

SYSTEM: National water resources use management policies: different uses

SYSTEM: Shared basin water resources governance

SYSTEM: Urban water system for city X (water source point dynamics, distribution infrastructure (clean water, recycling, waste), city water system demand management, water processing facilities, water supply contingency plans)

SYSTEM: Rural drinking water supply system

MEGASYSTEM: Waste and sanitation

SYSTEM: Urban waste management system/Sewage

SYSTEM: Urban waste management system/Landfill

SYSTEM: Urban waste management system/Medical

MEGASYSTEM: Energy

SYSTEM: Hydroelectric generation

SYSTEM: Electricity distribution infrastructure (grid system)

SYSTEM: Electricity power demand management (domestic and business)

SYSTEM: National energy mix/balance

SYSTEM: Emergency plans/provisions for power supply disruption

SYSTEM: Regional power pooling

SYSTEM: Biomass energy - wood/charcoal

MEGASYSTEM: Ecosystems

Special Ecosystems

SYSTEM: Center of endemism: Lake Malawi ecosystem

SYSTEM: Lake ecosystem: Lake Chilwa

SYSTEM: Specific ecoregions for unique flora and fauna: Mulanje cedar

SYSTEM: Wetlands ecosystem

SYSTEM: Mountain system

SYSTEM: Conservation areas: wildlife, forest, etc

SYSTEM: Managed forest plantation

SYSTEM: Transboundary migration system

MEGASYSTEM: Health Services

SYSTEM: Air quality and health

SYSTEM: Extreme temperatures and human well-being

SYSTEM: Contagious disease management system

SYSTEM: Health infrastructure: hospitals and clinics

SYSTEM: Emergency shelters

SYSTEM: Medicine supply network

SYSTEM: Access routes to hospitals

SYSTEM: Vulnerable groups (elderly, homeless, slums, schools/children)

MEGASYSTEM: Tourism

SYSTEM: Tourism infrastructure

SYSTEM: Nature-based tourism (parks & wildlife)

SYSTEM: Specific tourism attractions e.g. Lake Malawi, Nyika Plateau

MEGASYSTEM: Transportation

SYSTEM: Urban mass transit system

SYSTEM: Critical transportation infrastructure: key bridges, key access routes and corridors

SYSTEM: Distribution/access network: fuel, food, etc

SYSTEM: National transport infrastructure (rail, roads, etc)

SYSTEM: Airports

SYSTEM: Rail transport

SYSTEM: Regional transport networks and corridors

SYSTEM: Global transportation chokepoints (canals, etc) useful in import/export

MEGASYSTEM: Physical assets

SYSTEM: Industrial installations

SYSTEM: Business installations

SYSTEM: Human settlements/Living spaces

SYSTEM: Telecomm infrastructure

SYSTEM: Urban natural and planned drainage system

MEGASYSTEM: Governance

SYSTEM: Disaster Management/Disaster Response Governance

SYSTEM: Adaptation planning governance

SYSTEM: National government budget, tax and policies

SYSTEM: Business and economic operations

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General Open NAP

Cotents

Country NAP: Case study for country X

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Adaptation Solutions Database

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References
