



Ecosystem based Adaptation



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety

DEVELOPMENT OF VIA AND ITS APPLICATION

Dar es Salaam, 22nd March 2013

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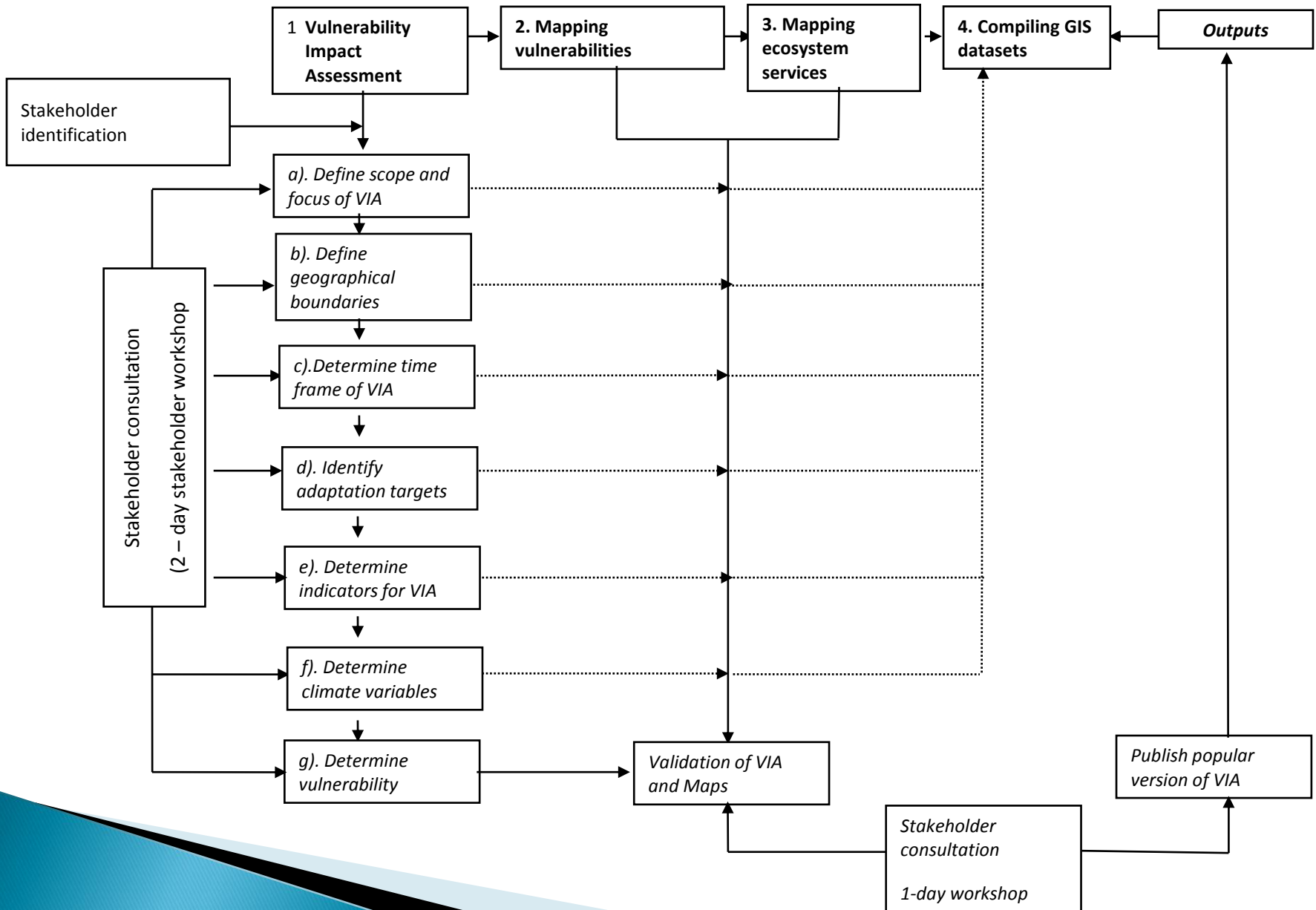
Introduction

VIA for Mt Elgon (Outputs)

1. Conduct a VIA for Mt Elgon with a focus on the links between ecosystems and people, to enable EBA;
2. Produce maps of vulnerability to most relevant types of CC impacts of local communities & ecosystem services that support them in Mt Elgon region;
3. Produce maps of current and future ecosystem service supply for the Mt Elgon region; and
4. Provide GIS data sets suitable for the national and District project stakeholders to explore options for locations suitable for EBA activities.



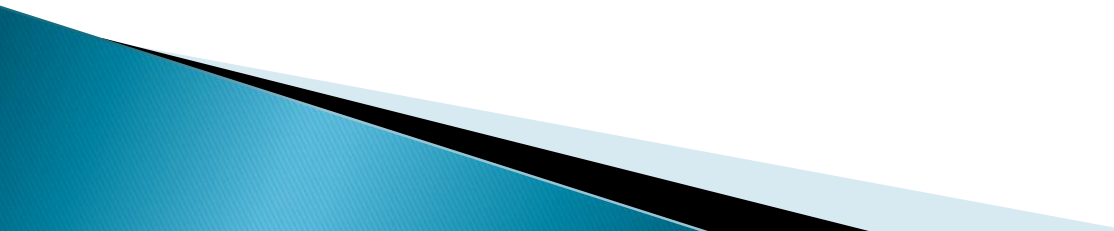
VIA Conceptual Framework



Methods

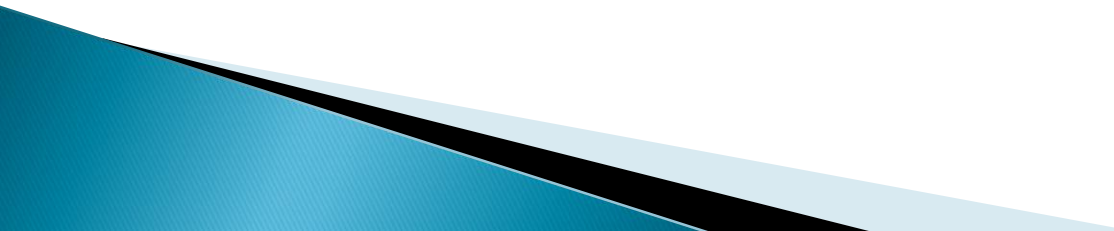
1. Define scope & focus of the VIA
 - Geographical boundaries, Timeframe of VIA
 - Users of the results (Project, Districts, National)
 - Adaptation targets (Ecosystem, Infrastructure, Sustainable Livelihoods)

 2. Determine Indicators for VIA (answer Qns)
 - What is the purpose of the indicator?
 - Resilience of WHAT to WHAT?
 - Vulnerability of WHAT to WHAT?
 - Link exposure, sensitivity & adaptive capacity.


 3. Determine climate variables relevant to VIA
 - Secondary sources, expert opinions and stakeholder consultations
 - Rainfall, Temperature, Wind, etc.
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Methods

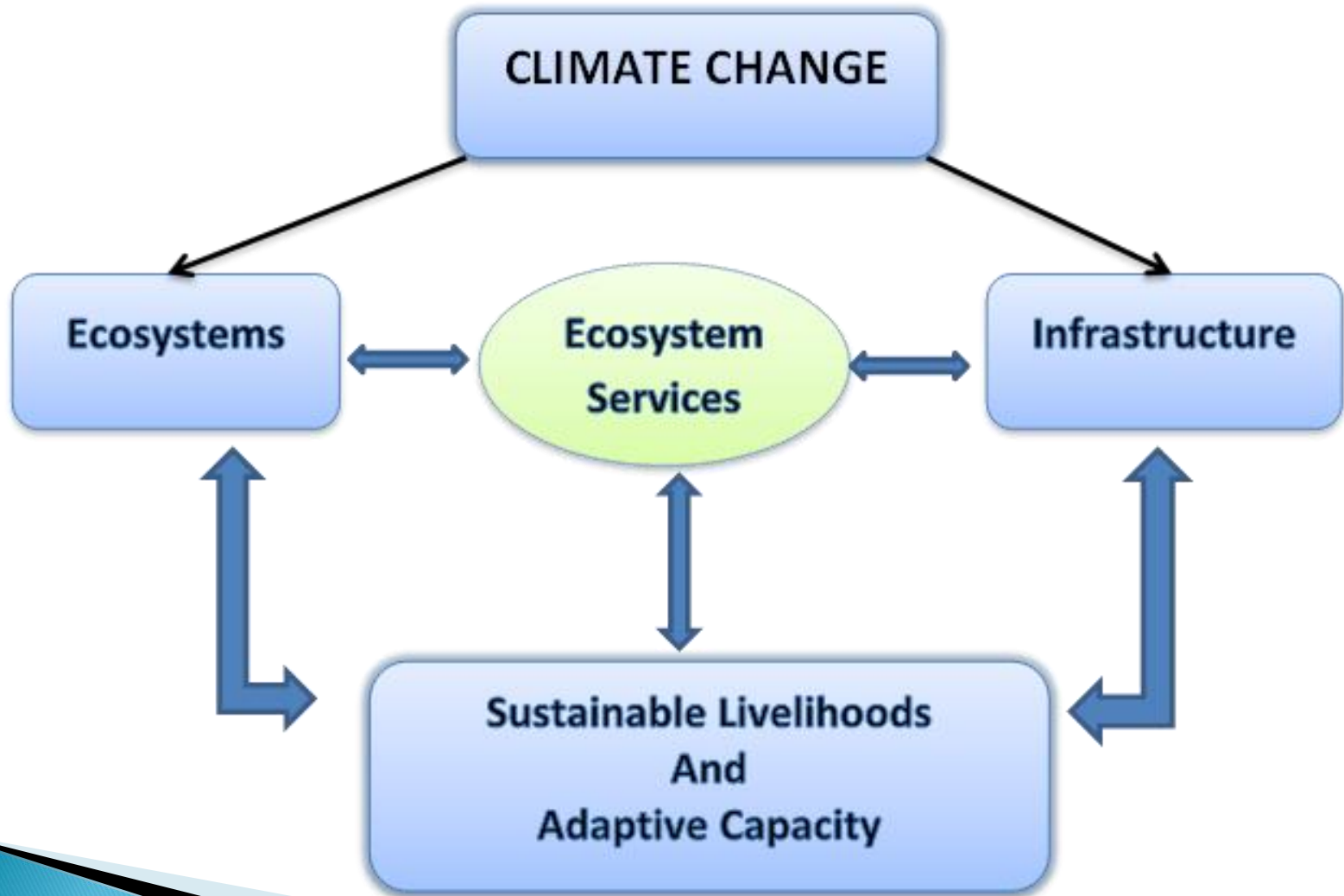
4. Determine vulnerability to climate change
 - Participatory hazard mapping (link hazards to locations in the area)
 - Develop vulnerability indices (scale of 0 to 1)
 - Conduct risk assessment for future projections of vulnerability
 - Assess ecosystem services (identify sources, current supply and trends, future supply)

 5. Map Vulnerabilities to Climate Change (the role of GIS)
 - Import vulnerability indices into GIS software to develop vulnerability maps
 - GPS points of sources of ecosystem services and data from secondary sources used in generating spatial representation of current and future supply of ecosystem services
 - Combination (over-laying) of hazard maps and spatial representation of ecosystem services informs the selection of areas for implementation of EBA measures
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Lessons learnt

1. Process and methodology should be iterative
 2. VIA process is multi-disciplinary in nature
 3. Socio-economics data and baselines of the area play a key aspect.
 4. The science in terms of; scale of analysis, sampling techniques, model development is crucial
 5. Key questions should be clear so as to get the right indicators.
 6. Triangulation of methods (e.g. model projections vs expert opinion)
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Summary VIA for EBA



**Thank you for your
Attention**

www.EBAflagship.org