

From Science to Policy Action

CCPAWA Regional Inception Meeting, Banjul, 1st April 2011

Ken Mwathe
Project Manager
BirdLife Africa Climate Change Project
Ken.mwathe@birdlife.org



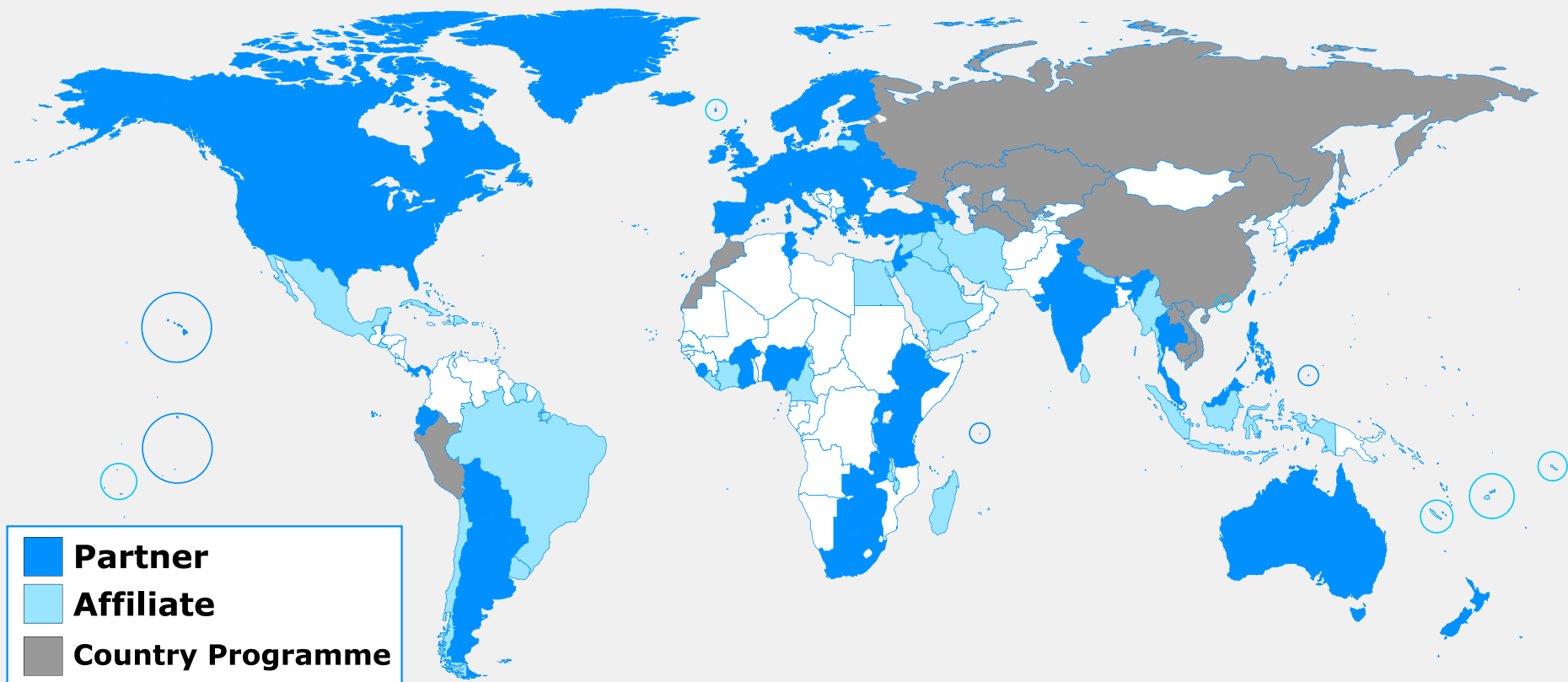
MAKERERE UNIVERSITY
"we build for the future"



MacArthur
Foundation







BirdLife International is a partnership of 116 national conservation organisations and the world leader in bird conservation. BirdLife's unique local to global approach enables it to deliver high impact and long term conservation for the benefit of nature and people.

BirdLife in Africa works in 23 African countries

4 Programmes

- SPECIES
- SITES
- HABITATS
- PEOPLE

Two Projects

Developing a Climate Adaptation Framework for the conservation of birds and other biodiversity across Africa. (2007-2009)

- Modelling work across Africa
- Fine modelling - Albertine Rift
- Climate Adaptation Framework
- Africa Climate Exchange
- Climate Change Brochure



Two Projects.....

***Implementing and monitoring an adaptive
Management Framework in the Albertine Rift
(2009-2012)***

1. Policy and advocacy
2. Capacity Building
3. On the ground action

THE AFRICA CLIMATE EXCHANGE

- One stop information sharing website on climate change in Africa
- www.africa-climate-exchange.org
- Created over a period of 2 years
- Open access – no login required.
- Hosted by Squarespace
- Holds 1,600 species distribution maps - the first of its kind for any taxa in Africa
- The Structure.....



Welcome to the Africa Climate Exchange

This website, developed by BirdLife International, serves as a one stop shop on information on climate change, mitigation and adaptation in Africa. Using birds and BirdLife's Important Bird Area network as entry points, it demonstrates how biodiversity in Africa will respond to climate change and what can be done.

The Africa Climate Exchange (ACE) links to various sources of information on climate change in Africa and other parts of the world. A growing Library of 350 downloadable documents is freely available. This website will spur dialogue and debate on various Climate Change issues. We are also making active follow up of developments after the United Nations Conference on Climate Change [UNFCCC COP15](#) recently concluded at Copenhagen and its implications to Africa. ACE can be used by ordinary people looking for information on climate change and impacts, as well as experts seeking scientific information. [More »](#)

Search site

Latest news

Tuesday, March 8, 2011

[Zwazo magazine tackles climate change](#)

[Africa : Rising Food Prices Require Political Response - AllAfrica.com](#)

[Drought in East Africa likely to Persist as Global Temperatures ...](#)

[Kenya: Research helps farmers adapt to climate change - NGO News ...](#)

[More news »](#)

Library



News



Maps



Library



Visit our Library to find the latest climate change documents.

News



Click here to see the latest climate change news.

Maps



View the first complete set of maps detailing how climate change is likely to affect Africa's bird species.

MACARTHUR
The John D. and Catherine T. MacArthur Foundation

This website has been created with financial support provided by John D. and Catherine T. MacArthur Foundation. The [MacArthur Foundation](#) also supported two of BirdLife's

Climate Change projects in Africa, the most recent being: *Implementing an Adaptive Framework for Climate Change in the Albertine Rift*.



Biodiversity is life
Biodiversity is our life

Kenya: Research helps farmers adapt to climate change - NGO News ...

[More news »](#)

Latest Library updates

February 11 - BirdLife
MEA Bulletin: Sustainable Development

February 11 - BirdLife
The Millennium Development Goals and natural resources management: reconciling sustainable livelihoods and resource cons

February 11 - BirdLife
A comprehensive index for a sustainable society: the SSI - the Sustainable Society Index

February 11 - BirdLife
The Value of Multi-proxy Reconstruction of Past Climate

February 11 - BirdLife
Increasing local voice and benefit in natural resource investment: a legal empowerment approach

[Library content RSS](#)



Africa Climate exChange



[Home](#) [About](#) [Library](#) [News](#) [Maps](#) [Links](#)

Library

Entries by Category

Click on a category below to view a list of all entries within that category.

- [Adaptation Plans](#) (90)
- [Biodiversity & Ecosystems](#) (118)
- [Community Adaptation](#) (126)
- [Conventions](#) (66)
- [Ecosystem Adaptation](#) (151)
- [Financing](#) (87)
- [Livelihoods & Economies](#) (259)
- [Mitigation](#) (208)
- [Modelling/Monitoring](#) (101)

Entries by Tag

Click on a tag below to view a list of all entries within that category.

- [Angola](#) (1)
- [Australia](#) (12)
- [Bangladesh](#) (3)
- [Benin](#) (2)
- [Botswana](#) (2)
- [Brazil](#) (3)
- [Burkina Faso](#) (1)
- [Burundi](#) (6)
- [Cambodia](#) (1)

Search site



Subscribe to Email alerts

[Library content updates - weekly alerts](#)

[News stories - daily alerts](#)

[News stories - weekly alerts](#)

.. (1)

Africa Climate Exchange - ...

+

www.africa-climate-exchange.org/news/

din... Login | Facebook Google Maps YouTube - Broadcast ... Yahoo! Mail (knmurimi) BibleGateway Readin... Jewish History BirdLife Internaional ...



Africa Climate exChange



Home

About

Library

News

Maps

Links

▪ **Zwazo magazine tackles climate change**

The latest issue of Zwazo, Nature Seychelles' (BirdLife in Seychelles) bi-annual conservation magazine is on climate change. It contains accounts...

21/2/2011

▪ **Africa : Rising Food Prices Require Political Response - AllAfrica.com**

Interestingly, Krugman pointed to global warming and climate change as the main causes disrupting food production ... inheritance of the...

4/3/2011

▪ **Drought in East Africa likely to Persist as Global Temperatures ...**

A new study in Climate Dynamics finds that decreased rainfall in eastern Africa is linked to climate change. The warming...

24/2/2011

▪ **Kenya: Research helps farmers adapt to climate change - NGO News ...**

Kenya's smallholder farmers are taking steps to adapt to climate change, and key investments could help the country to reduce...

25/2/2011

▪ **Forests for water and wetlands**

Today is World Wetlands Day and the 40th anniversary of the Convention on Wetlands, which was adopted in the Iranian...

1/2/2011

Search site

»

Subscribe to Email alerts

Library content updates - weekly alerts

News stories - daily alerts

News stories - weekly alerts

hange.org

all Earth' 440 Million Years Ago - ABC News

Cambs meeting...

Wireless Netwo...

Africa Climate E...

Skype™ - ken...

Microsoft Powe...

Document1 - Mi...

EN





Africa Climate exChange



[Home](#) [About](#) [Library](#) [News](#) [Maps](#) [Links](#)

Maps

A suite of maps, showing how the ranges of the majority of bird species breeding in sub-Saharan Africa could be impacted by climate change, is made available here online.

- [Search by Common Name](#)
- [Search by Scientific Name](#)
- [Search by Family](#)

These maps, depict modeled present-day and modeled projections of future species ranges approximating to four discrete time periods: present-day (based on the mean climate between 1970–2000), 2025 (a mean of climate projections for the period 2010–2039), 2055 (mean for 2040–2069) and 2085 (mean for 2070–2099).

The maps have been developed collaboratively by BirdLife International and Durham University with data provided by the [Zoological Museum of the University of Copenhagen](#) (see [here](#)) for 'observed' distributional data for all terrestrial bird species breeding in sub-Saharan Africa.

These ranges have been prepared for 1608 species, the entire breeding avifauna of sub-Saharan Africa, minus 71 species recorded from fewer than five grid cells, for which modeling was impractical.



The "climate envelope" of a species represents the association between its present-day distribution and current climatic variables. Future distributions are then estimated by projecting this relationship onto scenarios of climate change, making the assumption that current relationships between climate and distribution are retained (see e.g.

Search site



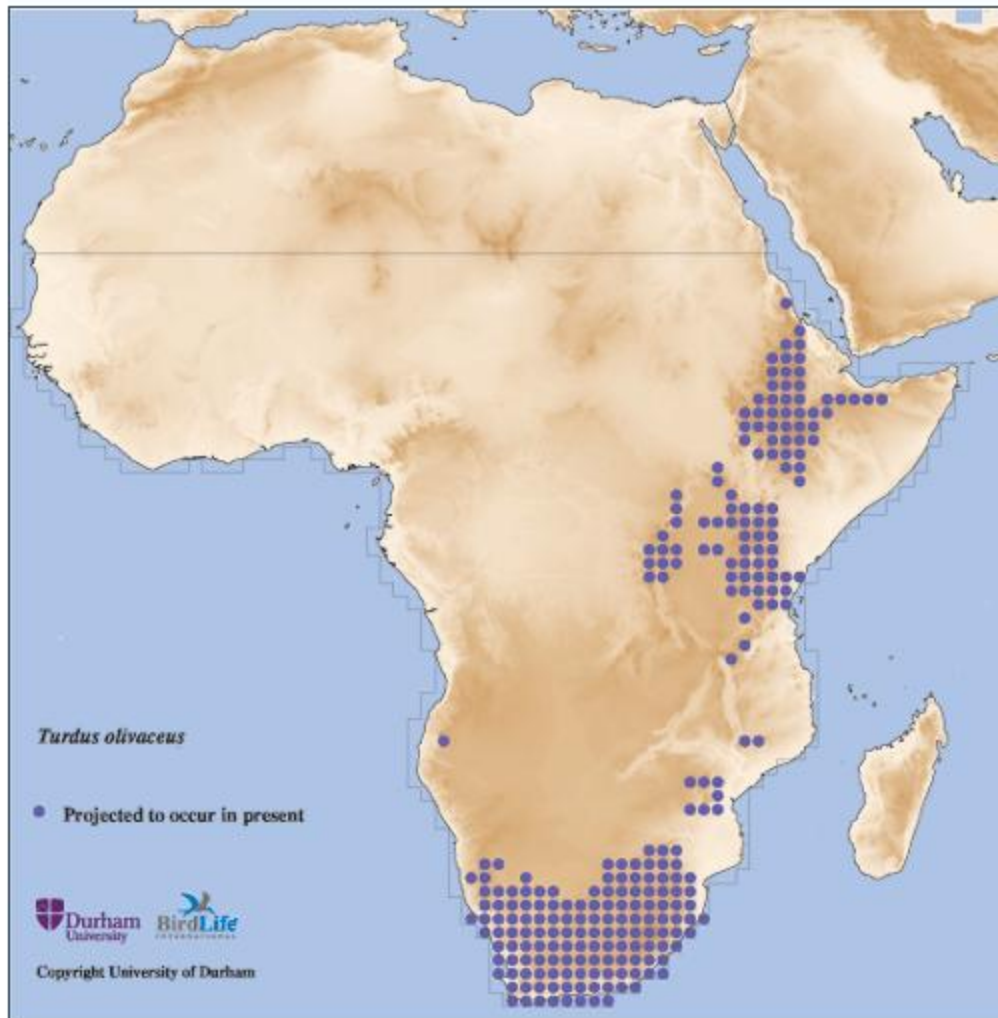
Species Impact Maps

[Search by Common Name](#)
[Search by Scientific Name](#)
[Search by Family](#)

[Africa's IBAs & Climate Change](#)
[Focus on the Albertine Rift](#)



Projected current and future distribution maps for Olive Thrush, (*Turdus olivaceus*)



See also

How to help



Present

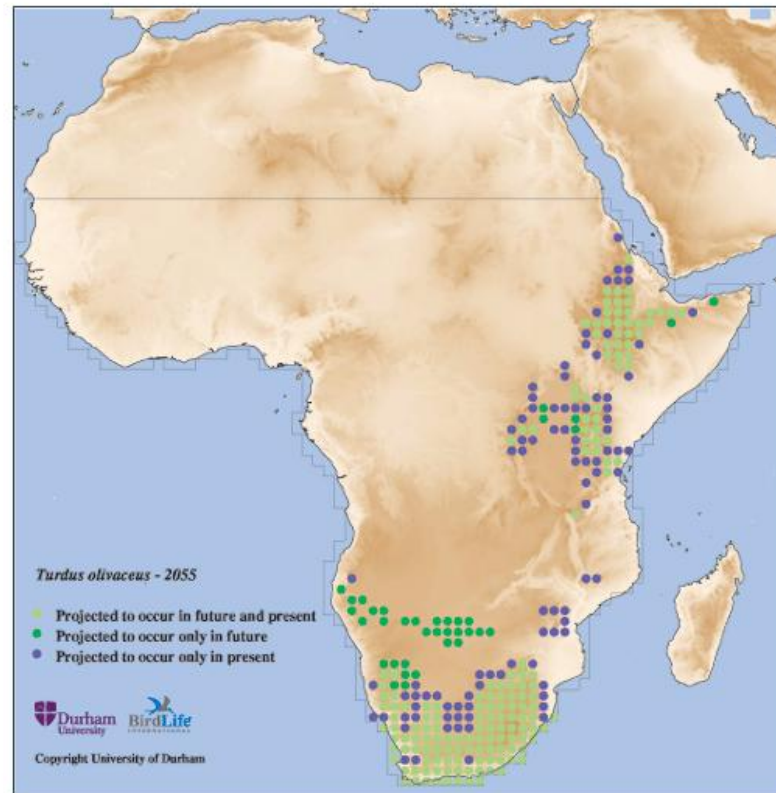
Advanced Search

WorldBirds

Birdlife.org



Projected current and future distribution maps for Olive Thrush, (*Turdus olivaceus*)



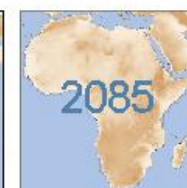
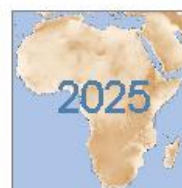
Preventing
Extinctions
Programme



Saving the world's
most threatened birds

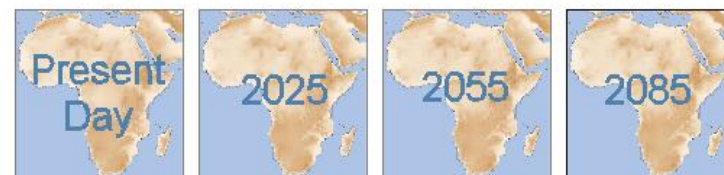
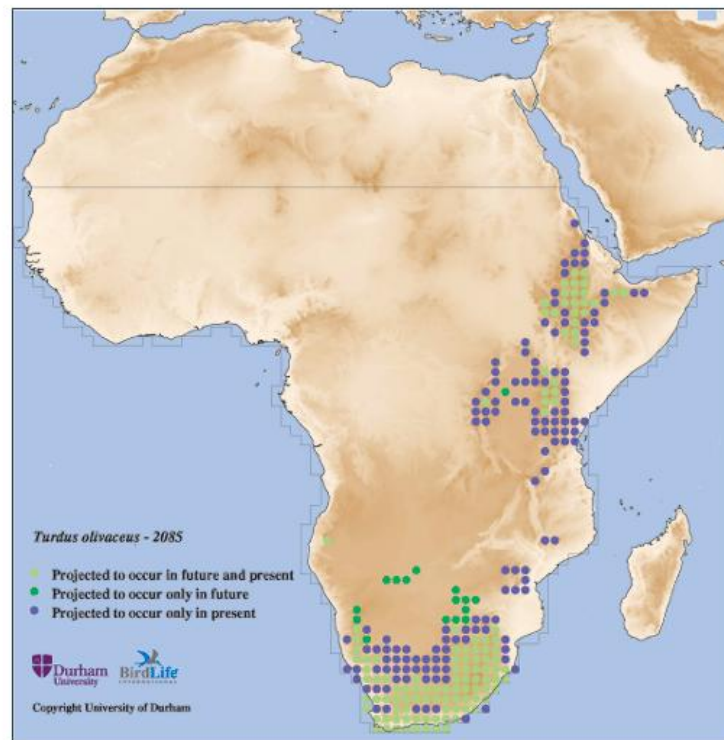


2055





Projected current and future distribution maps for Olive Thrush, (*Turdus olivaceus*)



AUC: 0.9389, O:46.5, R:52.8

Species Search Go

See also

How to help

Preventing
Extinctions
Programme

Saving the world's
most threatened birds

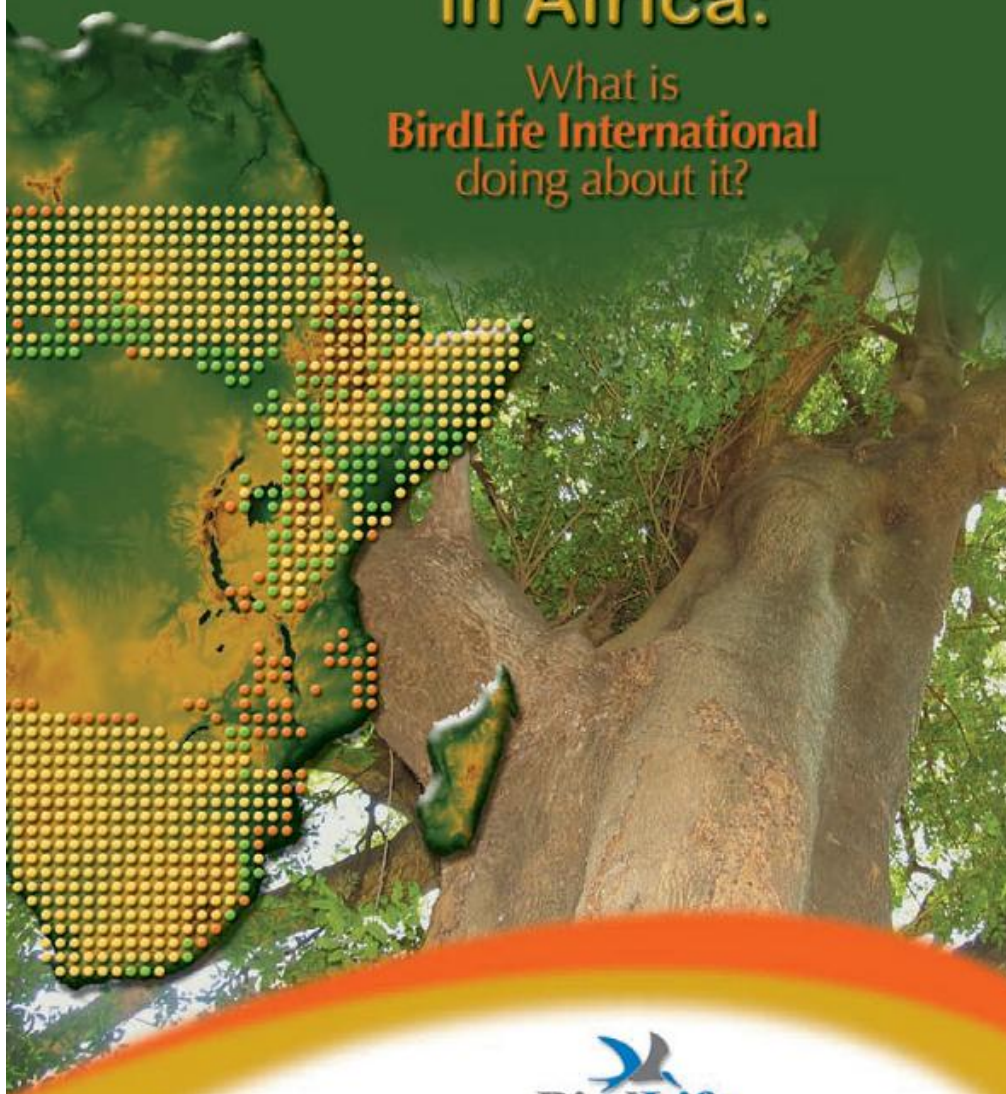


2085

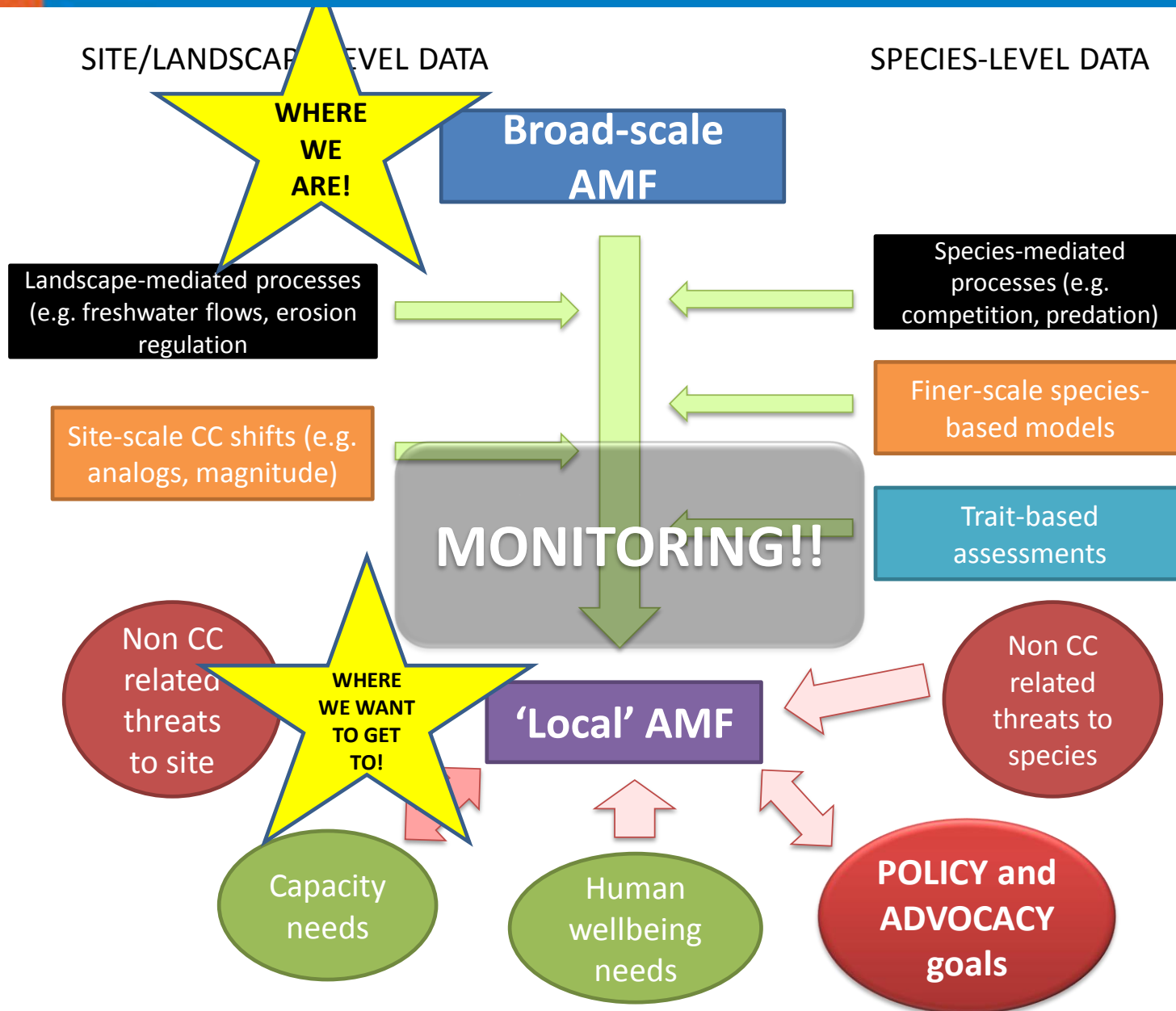


Climate Change in Africa:

What is
BirdLife International
doing about it?



Adaptation.....



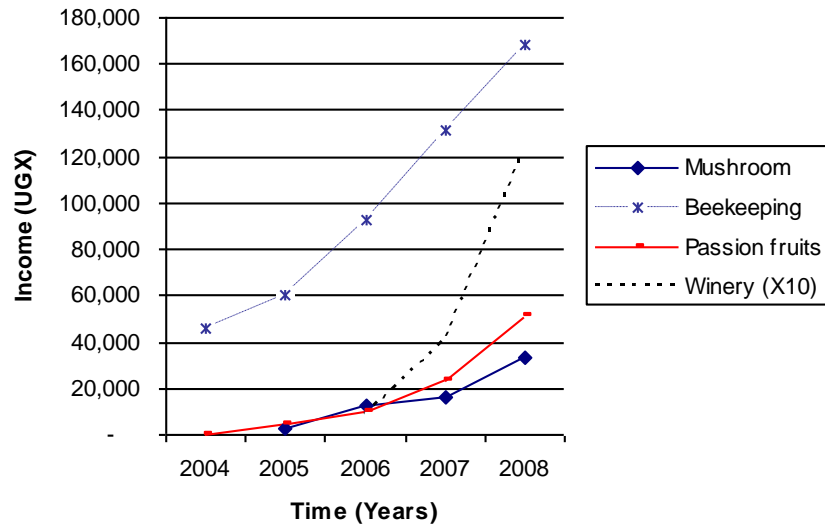
Adaptation: Summary of science implications

	Individual site scale Action & Policy	Regional/global scale Action & Policy
Short term	<ul style="list-style-type: none"> • Mitigate non-climate threats (agric, forestry, industry, hunting, invasives etc) • Strengthen buffers • Expand sites where feasible taking account of surrounding habitats & needs of priority spp. • Initiate monitoring • Research priority spp's ecological needs • Promote appropriate safeguarding (PA designation, community management etc) • Use policy levers to tackle threats at sites (local agricultural policy, forest policy, IAS legislation etc) + through EIAs etc 	<ul style="list-style-type: none"> • Identify new IBAs in gap areas • Manage matrix to maximise permeability, especially expected high turnover (e.g. establish corridors, agri-e schemes) • Use policy levers to tackle non-CC threats at broad agricultural policy, forest policy, IAS legislation etc) • Strengthen & incorporate adaptation into EIA & SEA use planning • Promote importance of IBAs as network • Strengthen national PA policy & promote the need to adaptation • Ensure national adaptation policy encompasses bio (incl. sector-specific adaptation plans) • Ensure NBSAPs incorporate adaptation concerns & IBAs as priorities • Ensure national mitigation strategies are informed by needs & opportunities
Long term	<ul style="list-style-type: none"> • Continue to mitigate non-CC threats, incl. as new ones emerge through indirect CC impacts • Manage/restore/create habitats to optimise suitability for emigrants/colonists/persistent species as appropriate, • Manage disturbance regimes (fire, flood, grazing etc) to prevent/facilitate habitat succession as appropriate • Consider translocations if appropriate • Maintain monitoring • Repeat research regularly to update adaptation plans • Maintain & adapt safeguarding to changing site boundaries, if appropriate • Use policy levers to tackle existing & emerging threats at site, incl. those driven by indirect CC impacts 	<ul style="list-style-type: none"> • Continue to assess adequacy of IBA networks & ide as appropriate • Adapt matrix management as needs (& threats) cha • Use policy levers to tackle non-CC threats at broad as these change through indirect CC impacts • Keep species legislation up to date as new priority s

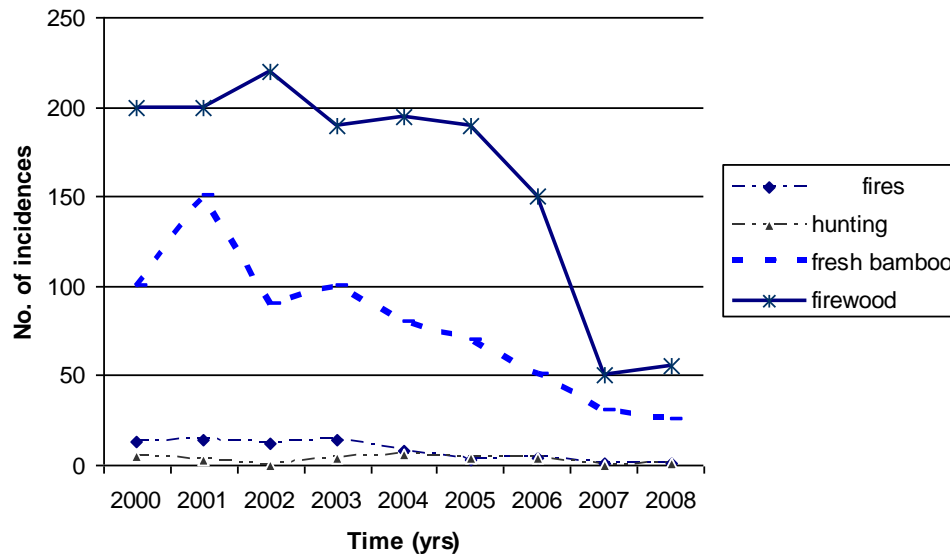
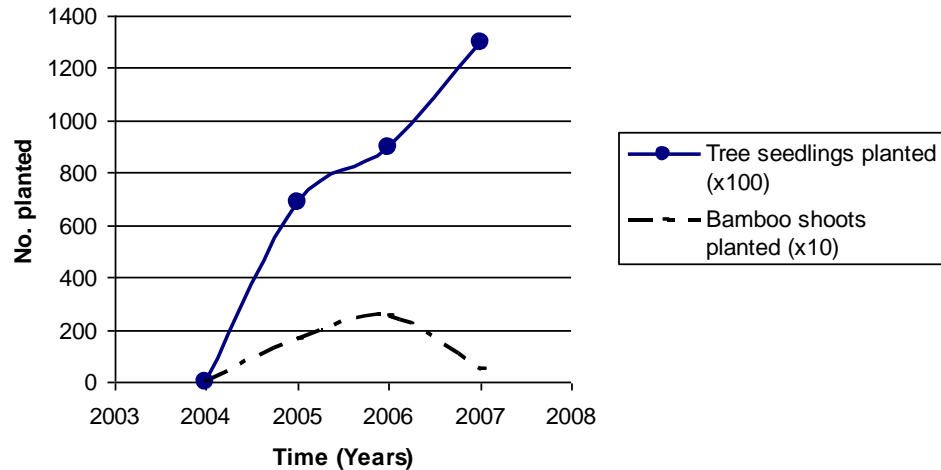


Adaptation demystified?

Average HH income per enterprise



Trees and bamboo planting



- Impacts of community -based conservation to conservation of biodiversity; a case of Echuya Forest Reserve

Policy Work

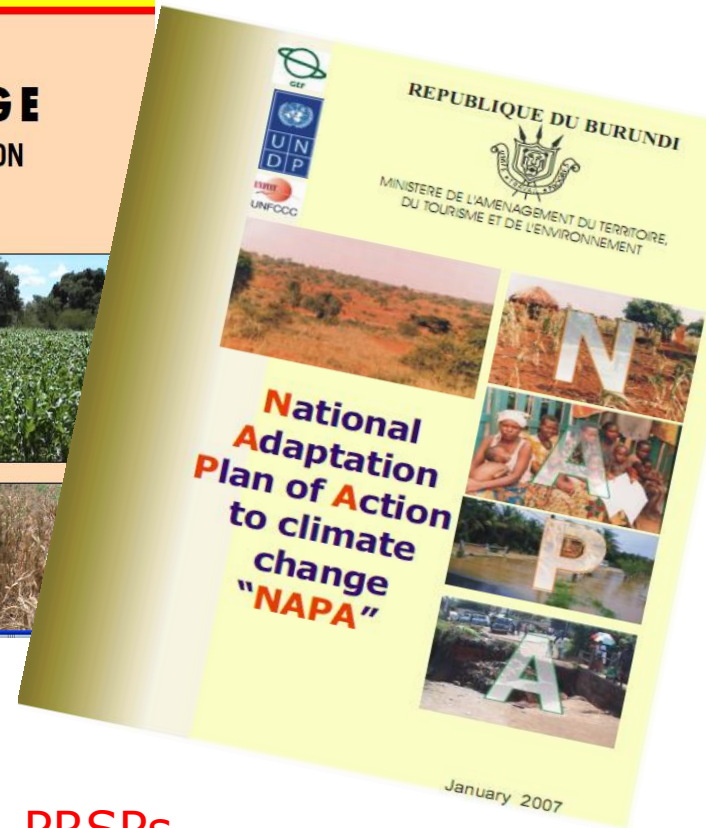
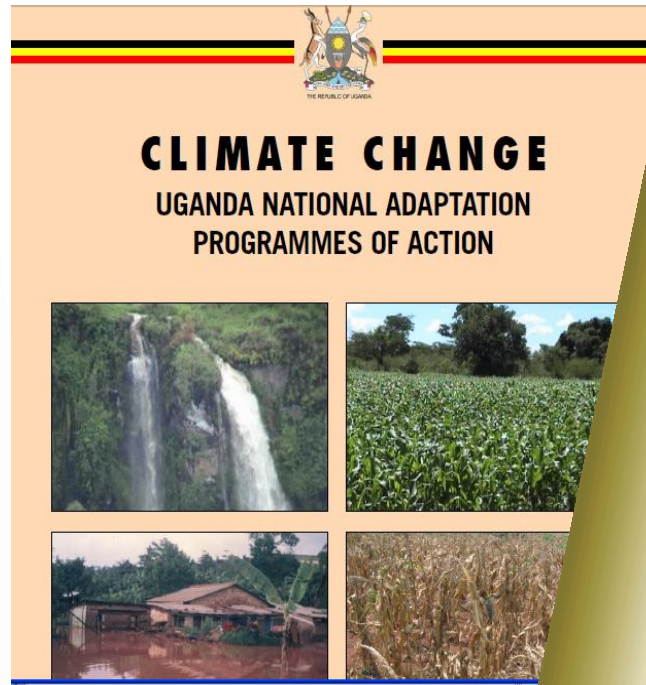
REPUBLIC OF RWANDA



MINISTRY OF LANDS,
ENVIRONMENT,
FORESTRY, WATER
AND MINES
P.O. BOX 3502 KIGALI
Tel. 582628/Fax. 582629

NATIONAL ADAPTATION PROGRAMMES OF ACTION
TO CLIMATE CHANGE

NAPA-RWANDA



Others: NBSAPs, PA plans, PRSPs

Regional and Global Processes - CBD COP 10



Capacity Building

Msc Student &
PA Staff



Policy & Advocacy
Staff



Relevance to this Project

- Bird point and dispersal data and modelling for West African Pas
- Monitoring to detect climate change impacts
- Translating the science into practical guidance and tools for PA managers
- Downscaling the science to design adaptation at individual PAs
- Policy analysis and intervention

BirdLife West Africa Network



PARTNERS:



MAKERERE UNIVERSITY
"we build for the future"



MacArthur
Foundation

- WILDLIFE CONSERVATION SOCIETY
- INSTITUTE OF TROPICAL FOREST CONSERVATION
- CONSERVATION INTERNATIONAL

MERCI POUR VOTRE ATTENTION

