### Positive economic reinforcement against poisoning. Bunyala model.

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# Background

- Bird poisoning primarily for economic gain by poachers.
- Poisoning for pest/locust bird control by farmers.
- NB: Poisoned birds ALL consumed by human beings.

A poacher preparing carbofuran-laced rice bait to target wild ducks and geese

### Resultant poisoned Fulvous Whistling Ducks

#### Other seedeaters-doves & weaverbirds-also not spared

Carbofuran-laced Pila ovata snails to target snail-eating Openbills Poisoned Openbills and incapacitated live decoys used to lure others to poison-laced bait

Quantifying study (counting poisoned birds): Feb'09 to Dec '09: -Carbofuran used -3186/8659 (dead/total exposed) or 37% of 33 species died -452/1005 or 45% of 8 palaearctics poison-killed -2734/7654 or 38% of 24 African species poisonkilled

### Some of the other species also counted after being poisoned

# Broad categorization of bird meat price per bird (Ksh/Usd) before and after education in 2009

Species/family	Phase I of intervi <b>ew</b> s/ questionnaires		Phase II of interviews/ question naires	
	Raw KSh/USD	Dried/Roasted KSh/USD	Raw KSh/USD	Dried/Roasted KSh/USD
African openbill	50/0.60	70/0.87	80/0.99	100/1.2
Marabou stork	400/4.97	825	400/4.97	\$%
Ibises and egrets	40/0.50		40/0.50	
Pigeons and doves	20/0.25	40/0.50	40/0.50	50/0.60
Sandpipers	10/0.1		20/0.25	
Widowbirds/ weavers/pipits	5/0		10/0.1	

°1 USD = ca 80 KsH

#### Conservation action:

- Local community education (2009-2011):
   But unsuccessful because of weak
   justification (Gaps on intoxication info)
- Government involvement: Furnished with reports, engaged in fact-finding mission but recommendations shelved.

Bird poisoning & harvesting continued unchecked, hence: Evolution of income-earning community scouting otherwise the "vigilant strategy"

# Objectives of vigilant strategy

MAIN: Initiate sustainable avian and other biodiversity resource exploitation

- Appreciation of bird/other biodiversity
- Safeguard birds/other biodiversity & human lives from poisoning

## Methods

- Income-earning educational & systematic
   bird monitoring (1 scout = €10/week)
  - Vigilant foot surveys at the rice plantation.
  - Raptor Road Surveys beyond Bunyala

(warning system especially against poisoning).

# Educating scouts about birds hence their appreciation

# Foot survey monitoring by local scouts against poisoning



Raptor road survey monitoring of all raptors but focussing on Hooded Vulture & Beaudouin's Snake Eagle in the locality & at poisoning risk

## Results

Reduced poisoning incidences:

-Sept 2012- Dec 2013: 34 poisoning incidences; 142 prevented.

-Jan 2014 - March 2014: O observed poisoning incidences (does not mean NO POISONING).

\*Poisoning observed nearly daily pre Sept'12.

•Detection & monitoring of other threats particularly raptor snaring against domestic chicken kills and for use of their carcasses as scare decoys to parasitic birds

# **Problems/Limitations**

- Lack of justification of the dire consequences of poisoning (poisons not well known/understood)
  - -No demonstration of human
  - intoxication
  - -No concise demonstration of raptor poisoning

And yet there is possible additional dermal intoxication while preparing bait by poachers aside from consumption of poisoned birds

### Mixing bait & poison with bare hands

And possible raptor poisoning such as this kestrel coming to feed on live termites mingling with laid out laced termite bait at the vents of termite mounds

#### Problems/limitations continued:

Lack of a proper premise/housing/room hence: Scouts being taught in the open, on random grounds that complicates dealing with;
Semi-illiterate scouts

Hostile environment especially flooding

Emergence of counterfeit pesticides; e.g the background pictures show compounds, all branded FURADAN 5G

Hostile/adamant poachers

ONALD A. TURNER. The Egretta garzetta complex in Tanzanial

ZIANG

- Intermittent funding
  - Inadequate equipment: headlamps, GPS units, motorcycle (probably a vehicle), classroom & furniture (tent-doubling up as an office/store room- chairs, writing board), power source (Solar), partly funded schemes.

- PI up-keep/salary

(affects consistency; PI has to leave

& fundraise via side jobs for upkeep)

Remoteness of locality

-need for aggressive marketing & sacrificial touring incentives
(justification of a vehicle)

## THE DREAM

 Bird watching haven with competent local guides/'bird guardians' ultimately preventing poisoning. • A site with integrated structures to enhance bird watching and discouragede poisoning Rice Fields

Block perches Feeders/water trays Bird hide

## Conclusion

 Direct wages/salaries to locals linked to LIVE birdlife have played a significant role in preventing poisoning

Sustained income could END poisoning

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## The end