



UNIVERSITY OF  
**STIRLING**



# Capacity Building for Monitoring and Managing the Bushmeat Trade

Darwin Initiative 162-12-002

2003-2006

# GABON





# WHY GABON ?



# WHY BUSHMEAT ?





# PROJECT DESIGN



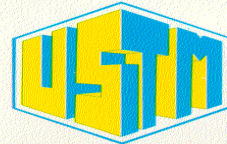
# STARTING OUT





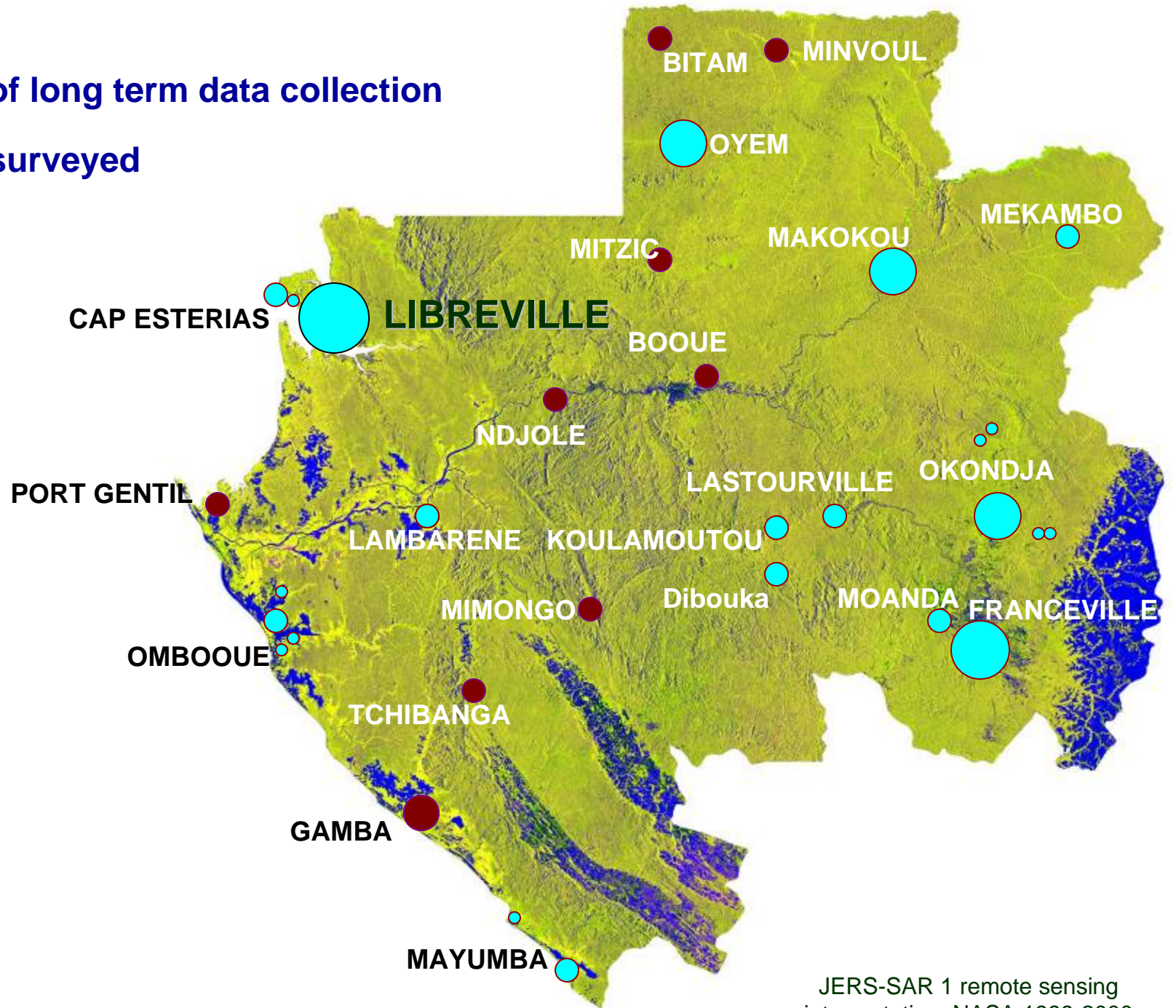
# PARTNERS

- Centre International de Recherches Medicales de Franceville
- Darwin Initiative
- Ministry of Water and Forests
  - National Forestry College
  - Wildlife and Hunting Department
- Wildlife Conservation Society Gabon
- University des Sciences et Techniques de Masuku
- University of Stirling



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- Sites of long term data collection
- Sites surveyed



JERS-SAR 1 remote sensing interpretation, NASA, 1999-2000

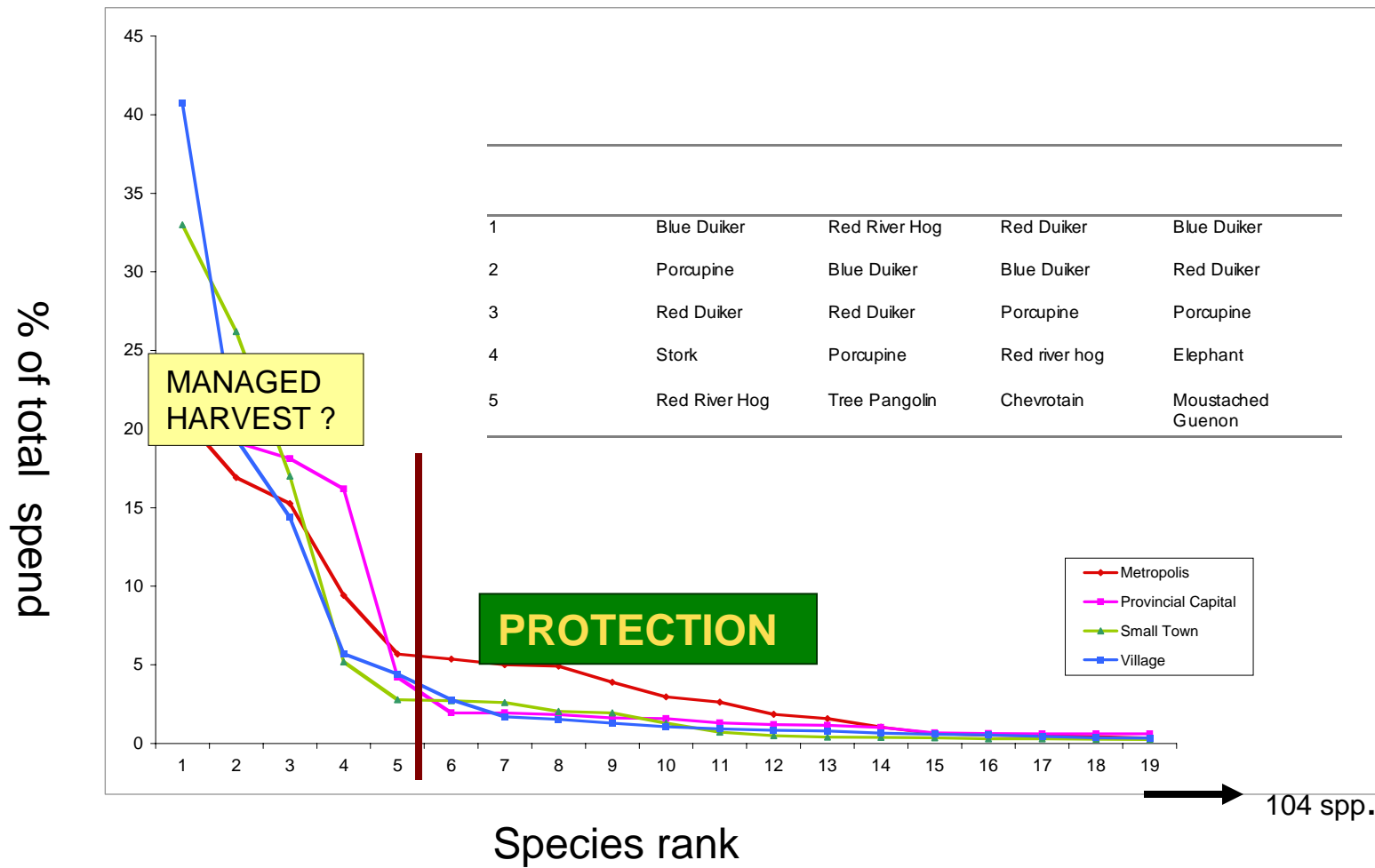


# Bushmeat transported for commerce

- Canoe
- Aeroplane
- Road vehicle
- Train



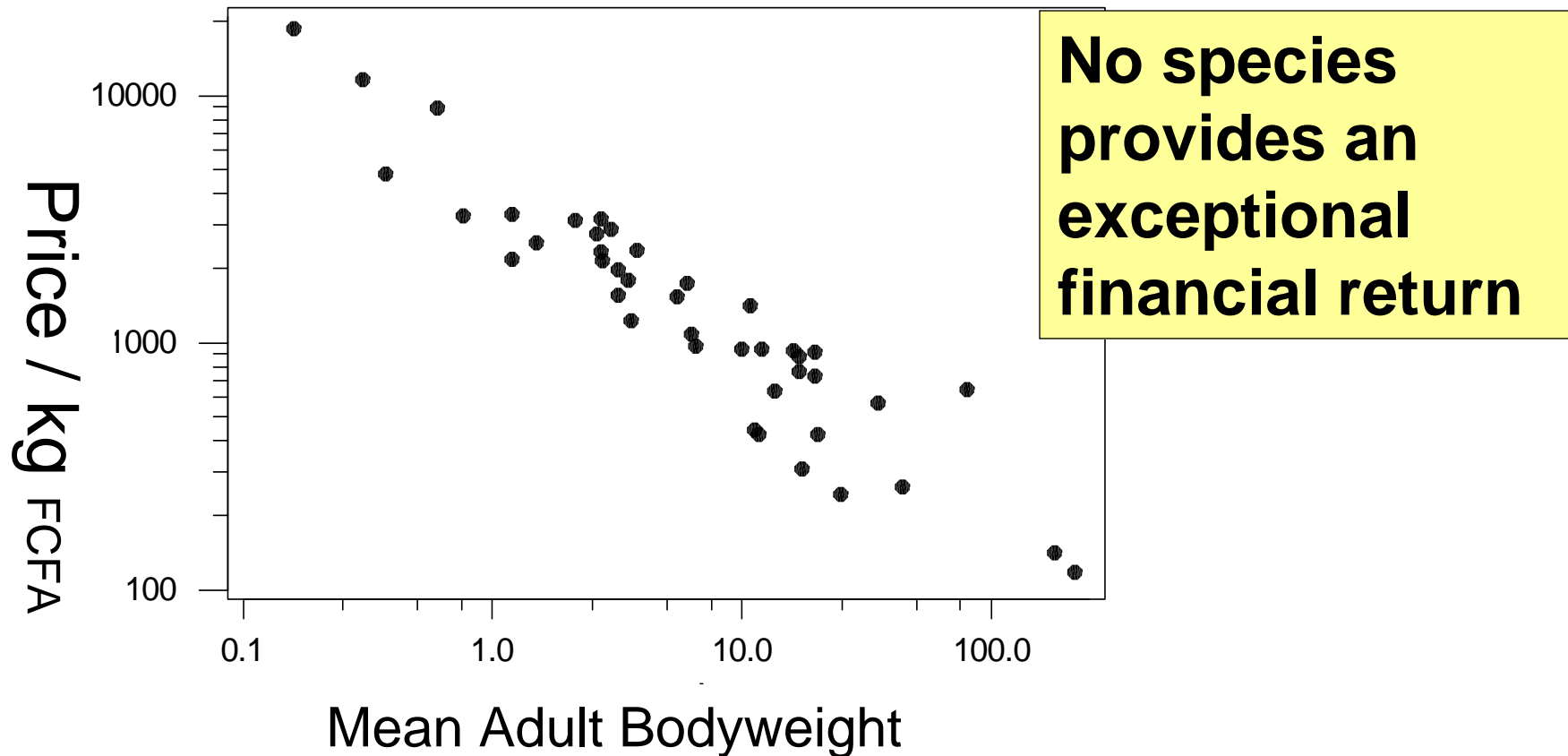
# BIODIVERSITY



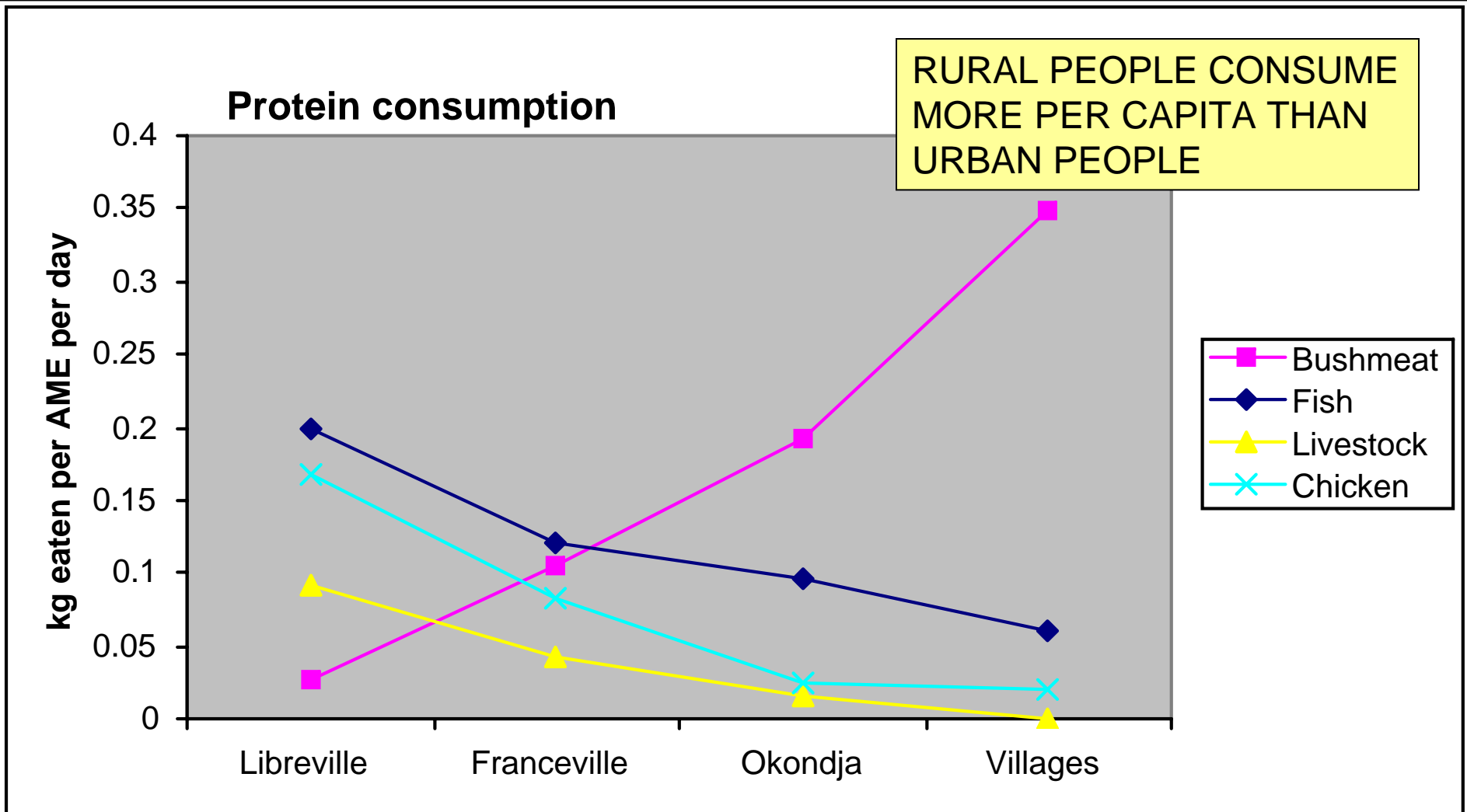


# BIODIVERSITY

Price per kilo (ln transformed) paid in a Libreville Market against body size of the animal.



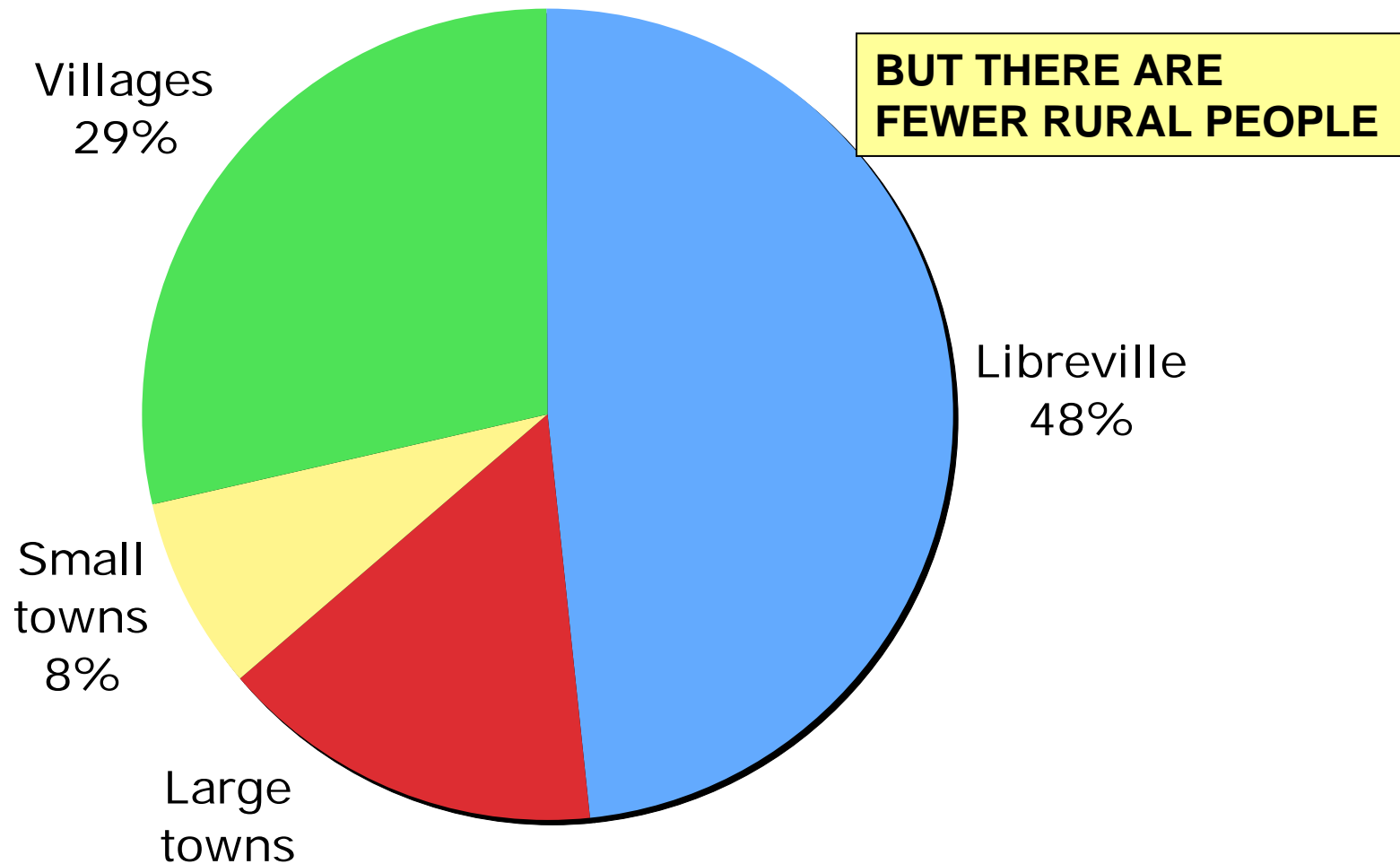
# WHO USES THE RESOURCE ?



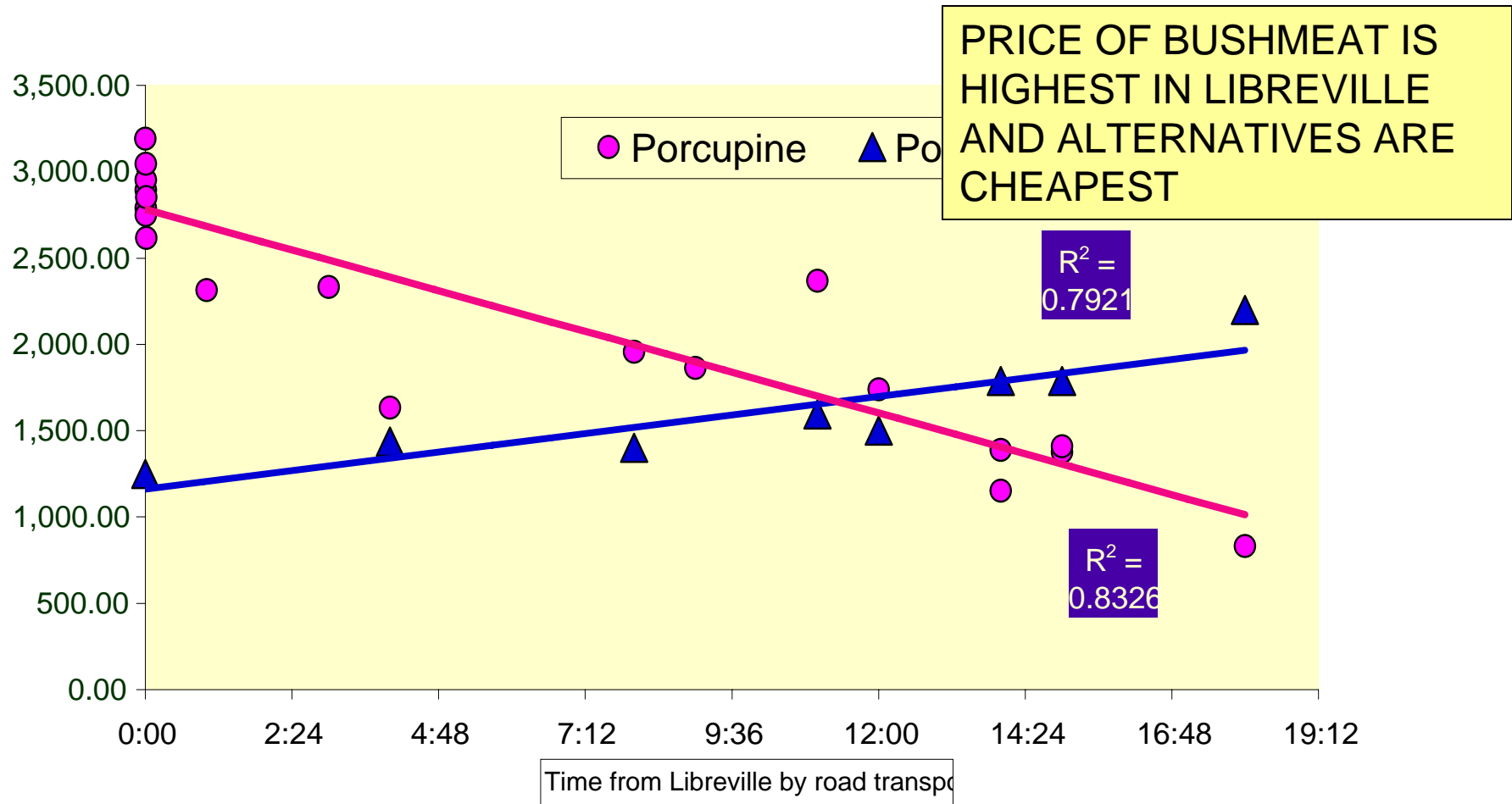


# WHERE ARE THE CONSUMERS?

Population distribution in Gabon  
1993 census and UNHabitat projections for 2003



# WHAT AFFECTS USE ?

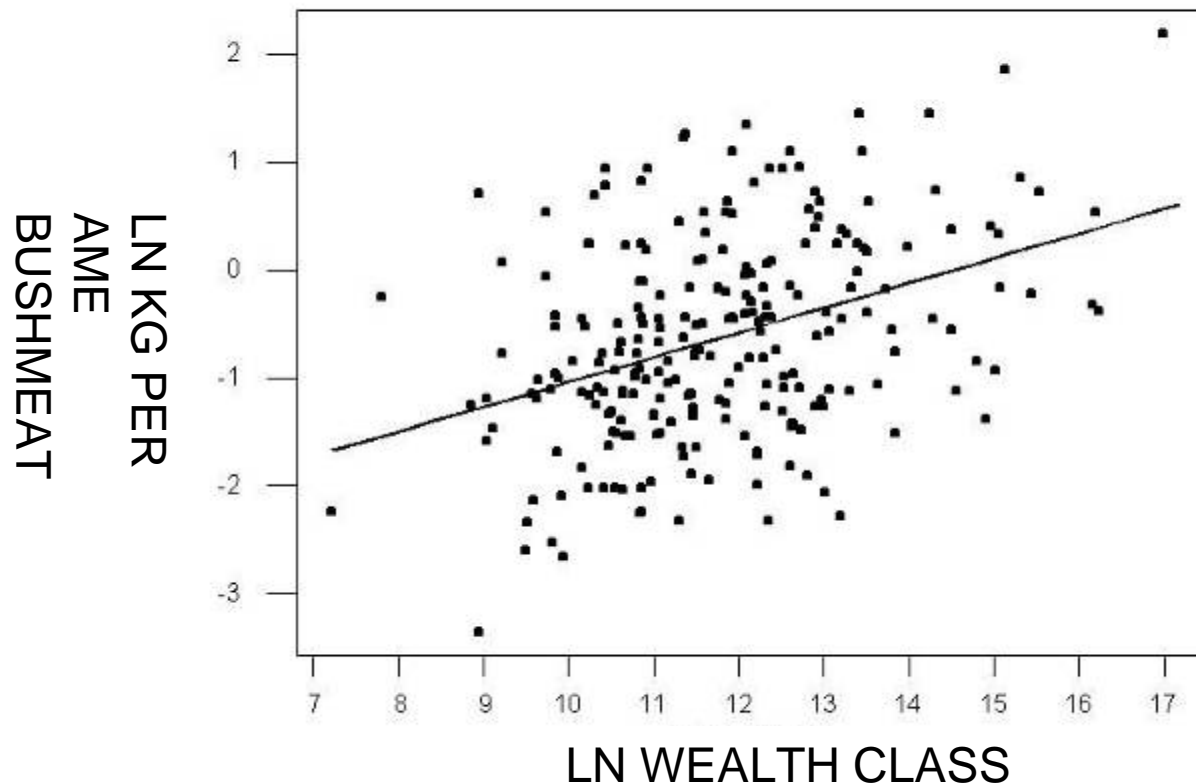




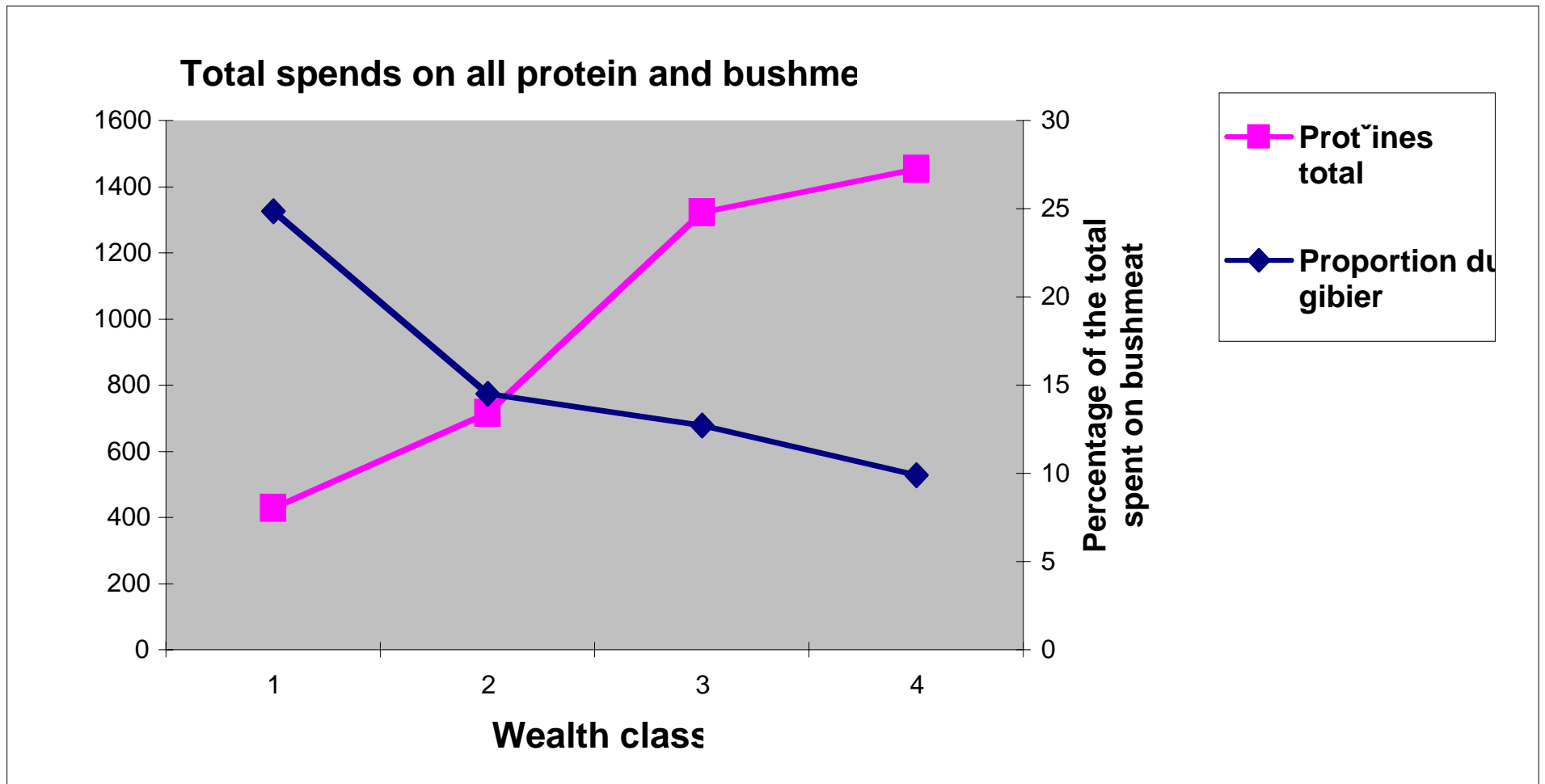
# DOES WEALTH AFFECT CONSUMPTION ?

$$\text{LN\_GIB\_PPP} = -3.33928 + 0.229626 \text{ LN\_WC}$$

S = 0.875078    R-Sq = 14.7 %    R-Sq(adj) = 14.3 %

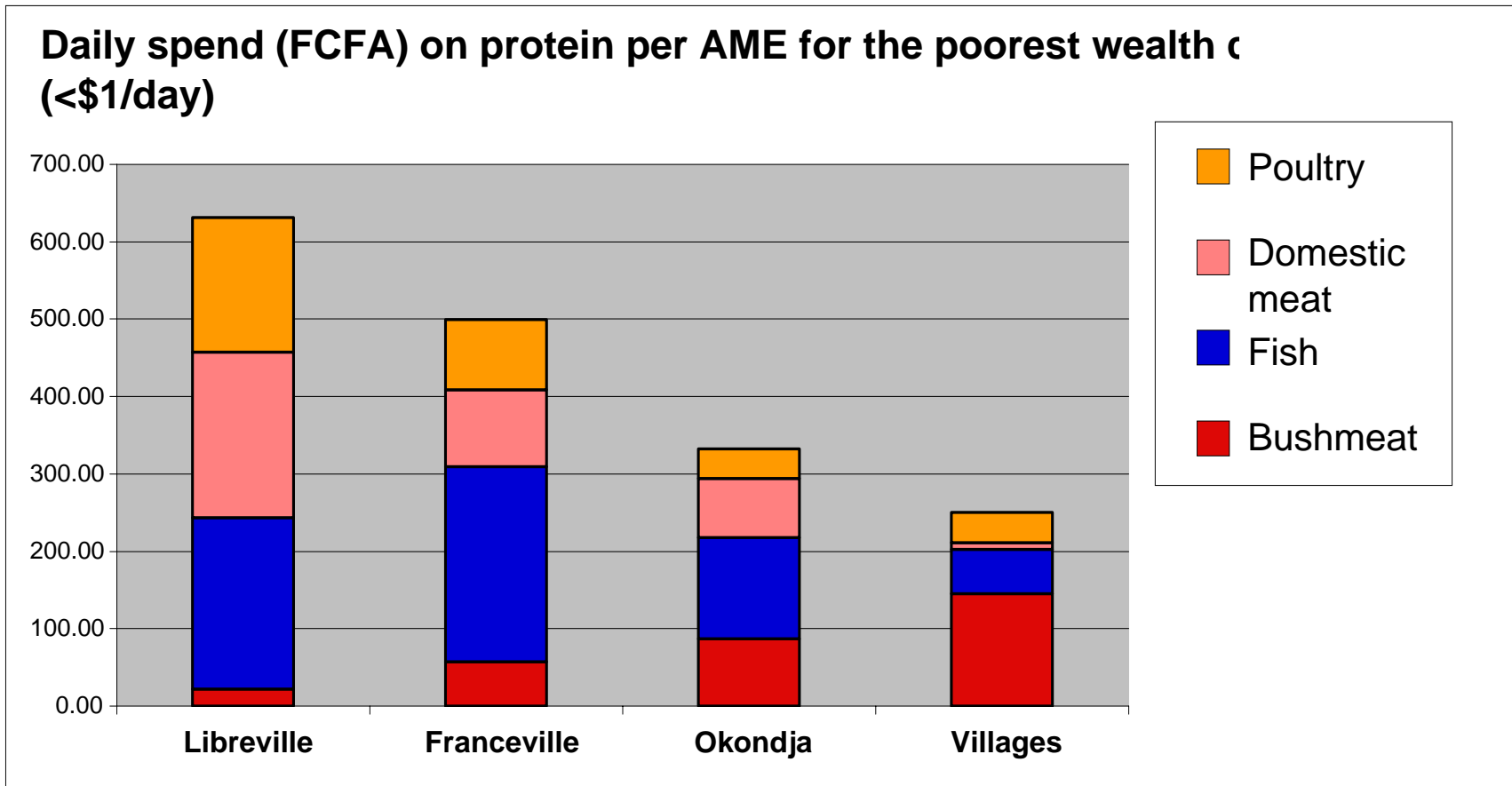


# DOES WEALTH AFFECT CONSUMPTION ?



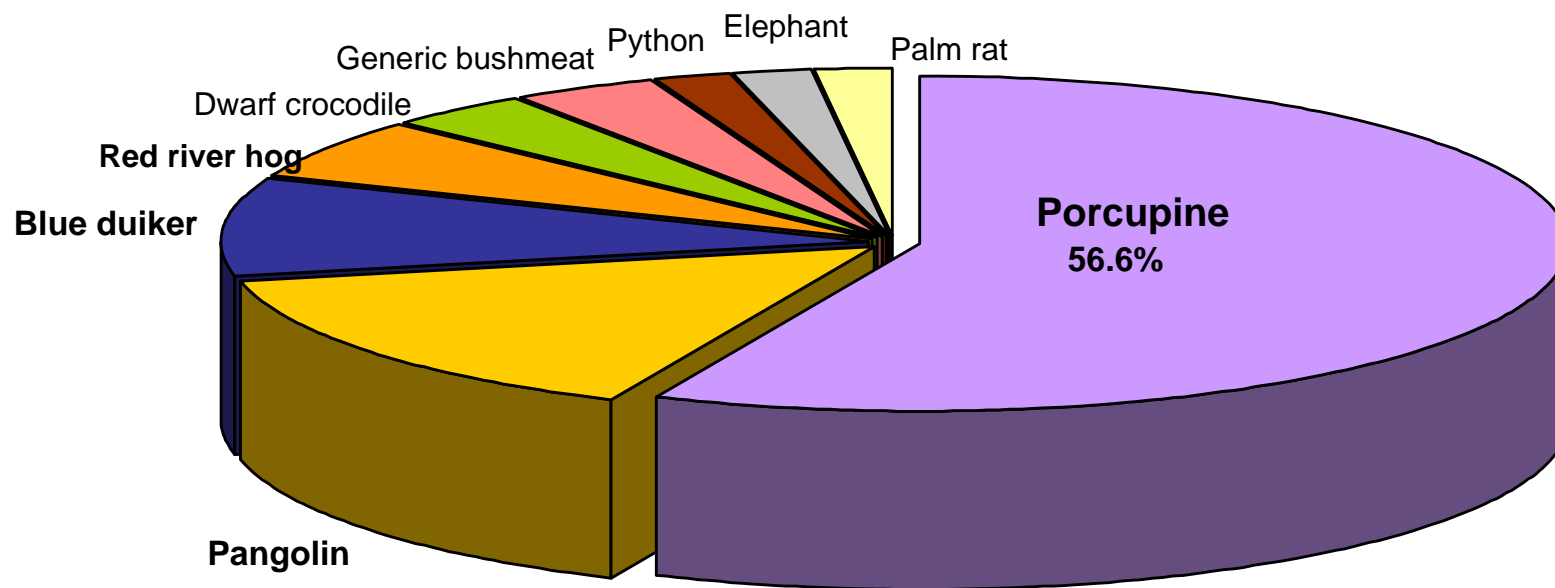


# DOES AVAILABILITY AFFECT CONSUMPTION?



# CONSUMER PREFERENCES

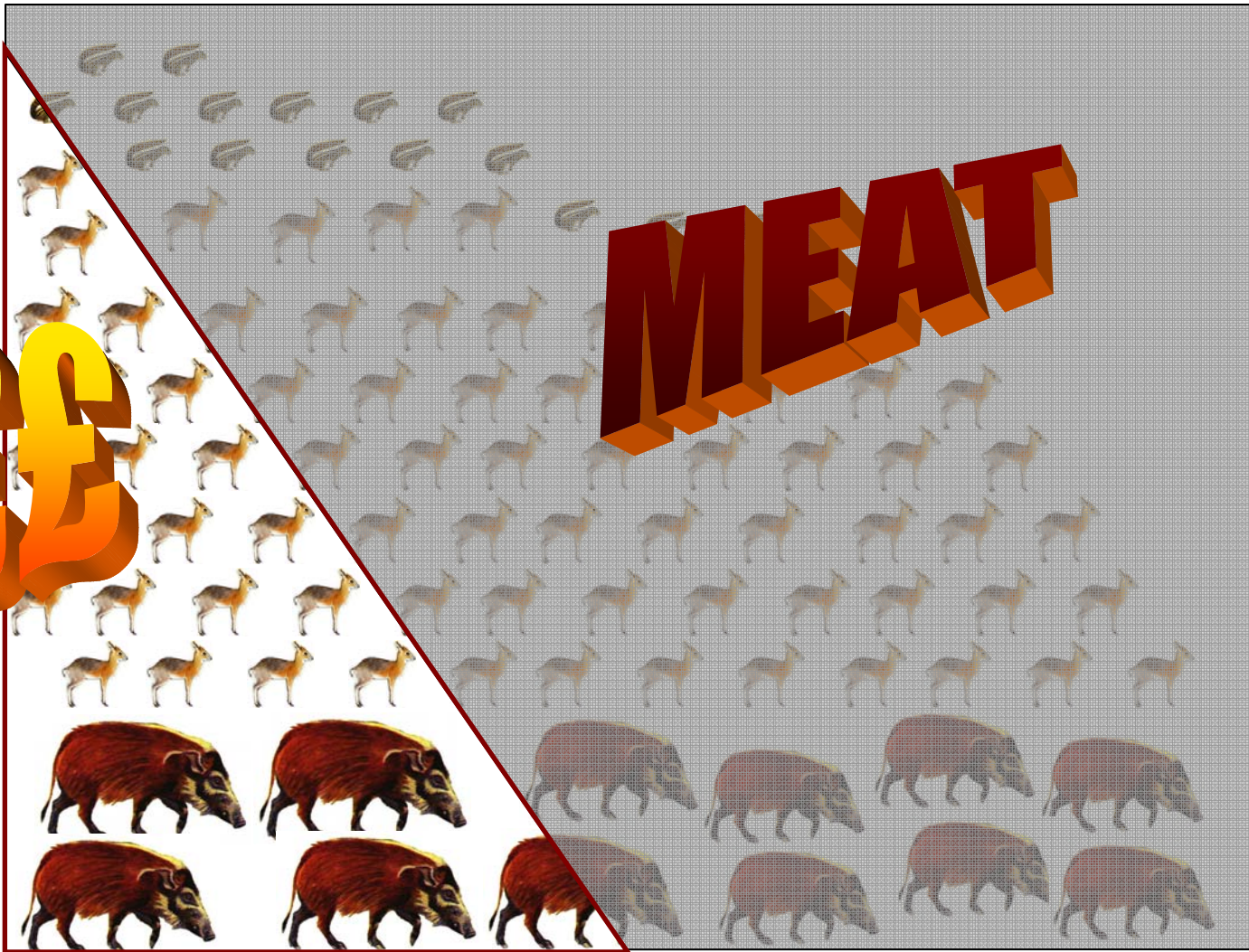
Percentage of bushmeat consumers expressing a preference for the species, N=135



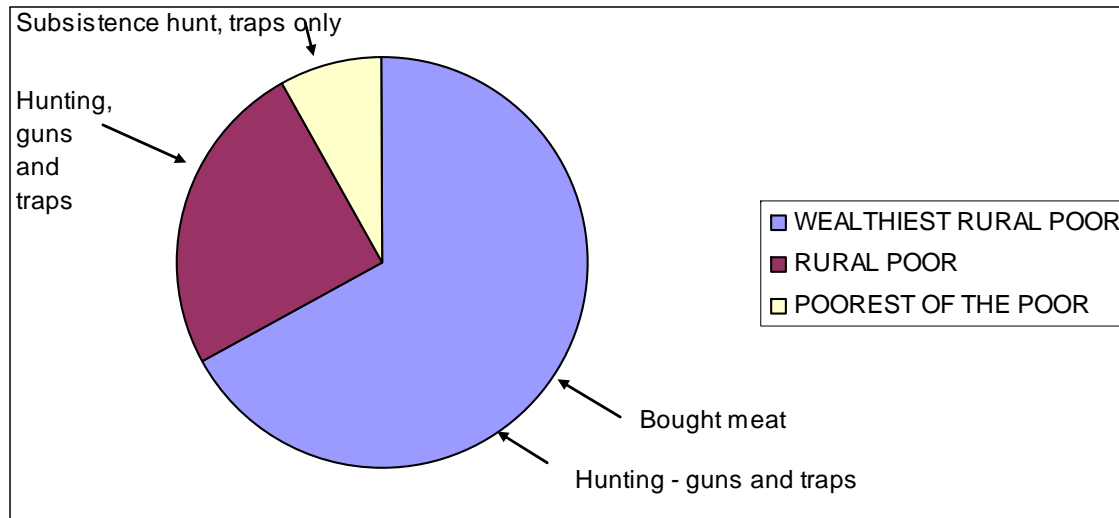
# BENEFITS : MEAT OR CASH

£££

MEAT



# BENEFITS : MEAT OR CASH



Hunting variable		Alcohol and cigarettes	Food	Household goods
	Spearman rank	0.500	-0.277	-0.269
Total hunting income (fcfa)	p	0.004	0.125	0.136



# POTENTIAL FOR SUSTAINABILITY ?

- Human population distribution and size makes a sustainable livelihood based on wild meat protein potentially possible in rural areas
- Current hunting practice biased to a few species means that biodiversity protection and 'game' management may be possible in tandem
- Consumer preference is for a fast-breeding rodent, potentially adapted to a sustainable offtake

# WHAT WE STILL NEEDED TO KNOW

How long before wildlife populations are eradicated or people are impoverished?

How well can we evaluate trends in consumption or trade?

Is there a constituency for change?


How well are current management practices working?

# RESEARCH PROJECTS




# NATIONAL DATABASES


Menu Principal



DARWIN INITIATIVE



WILDLIFE CONSERVATION SOCIETY



Eaux et Forêts

## Menu Principal

Que Aimeriez-vous faire ?

- Saisir les données
- Verifier les données
- Statistiques de données
- Voir la Gestion de Listes
- Gestion de Rapports
- Fermer la base de données

**Base de données:  
Projet - gibier**



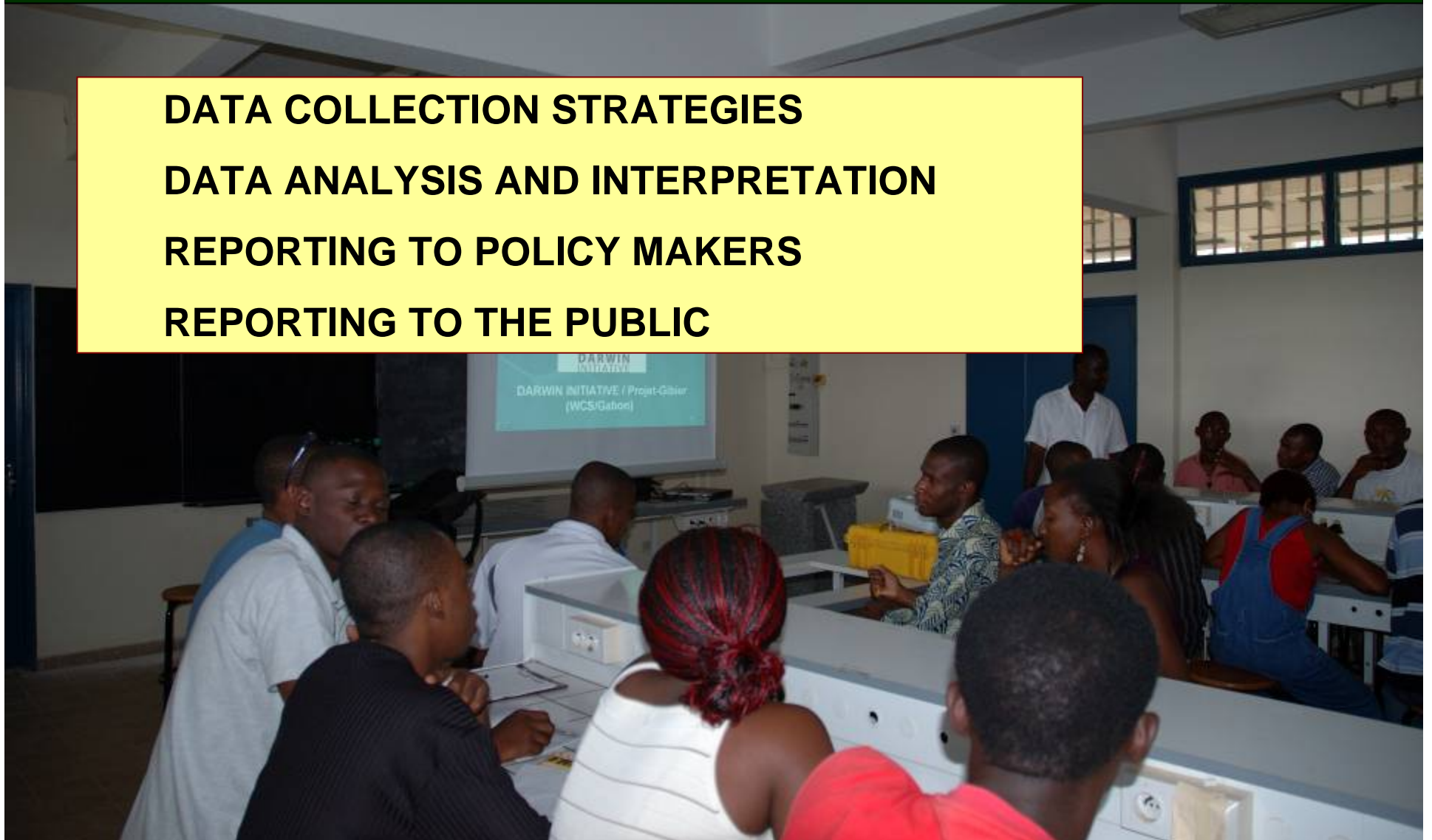
# IMPROVING PROFESSIONAL CAPACITY

**DATA COLLECTION STRATEGIES**

**DATA ANALYSIS AND INTERPRETATION**

**REPORTING TO POLICY MAKERS**

**REPORTING TO THE PUBLIC**



# POLICY MAKING



# POLICY TO PRACTICE





# PITFALLS





# THE FUTURE

