



# Emerging Pandemic Threats - PREVENT

Lessons Learned Forum  
September 5-6, 2012  
Mercure Hotel, Vientiane capital

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# What is EPT?



- EPT means emerging pandemic threats
- A USAID program with four components –
  - PREDICT
  - RESPOND
  - IDENTIFY
  - PREVENT

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# Components



1. Through PREDICT, USAID and partners monitor and increase local capacities in geographic “hot spots” to identify the emergence of new infectious diseases in high-risk wildlife, such as bats, rodents, and nonhuman primates, that could pose a major threat to human health.
2. RESPOND project twins schools of public health and veterinary medicine in “hot spot” regions with U.S. counterpart institutions to strengthen the provision of long- and short-course trainings for cadres of animal- and human-health professionals in field epidemiology and respond to disease outbreaks timely and sustainably.

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# Components



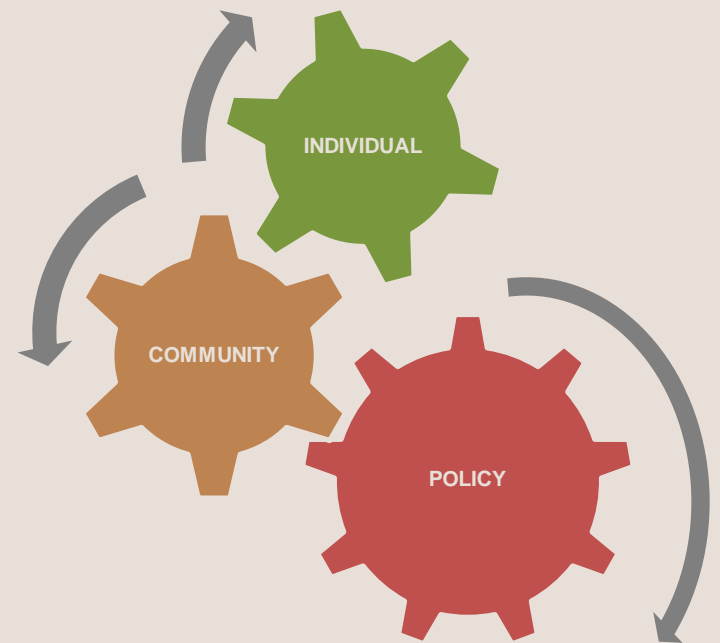
3. IDENTIFY represents a USAID partnership with WHO, the U.N. Food and Agriculture Organization (FAO), and OIE. The project aims to help develop laboratory networks and strengthen diagnostic capacities in geographic “hot spots” for new emergent diseases.
4. PREVENT builds upon USAID’s ongoing H5N1 avian influenza efforts. It also supports efforts to characterize behaviors that increase the potential for new disease threats from wildlife or wildlife products to spread, and formulates strategies for behavior change and/or communication approaches that meet the challenges posed by emerging pandemic disease threats.

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**Goal:** To prevent the emergence and spread of zoonotic diseases, building on USAID's H5N1 avian influenza efforts.

PREVENT applies a **social and behavior change approach** to develop and introduce interventions for improved practices at multiple levels



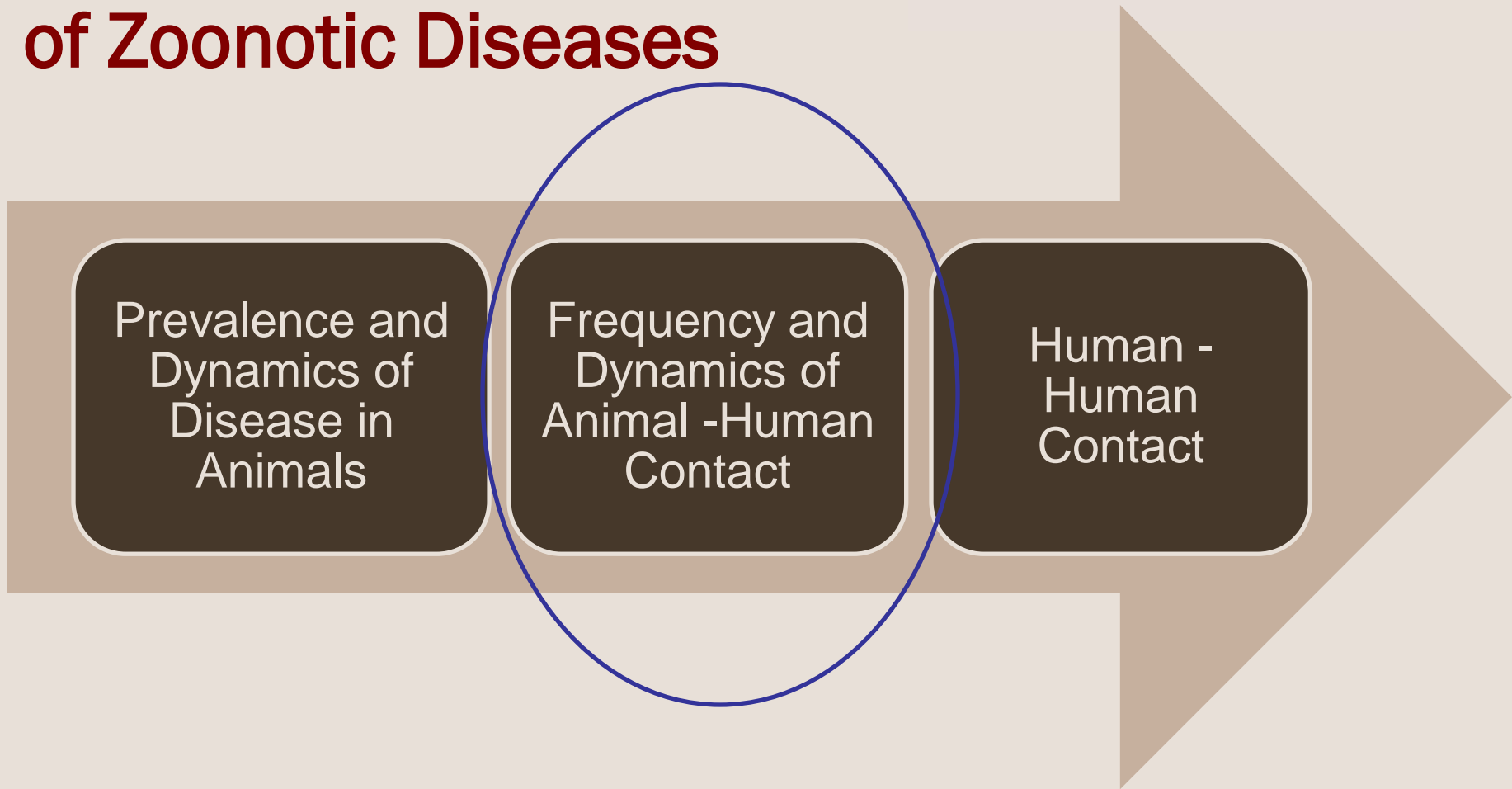
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# One Health: Many Behaviors



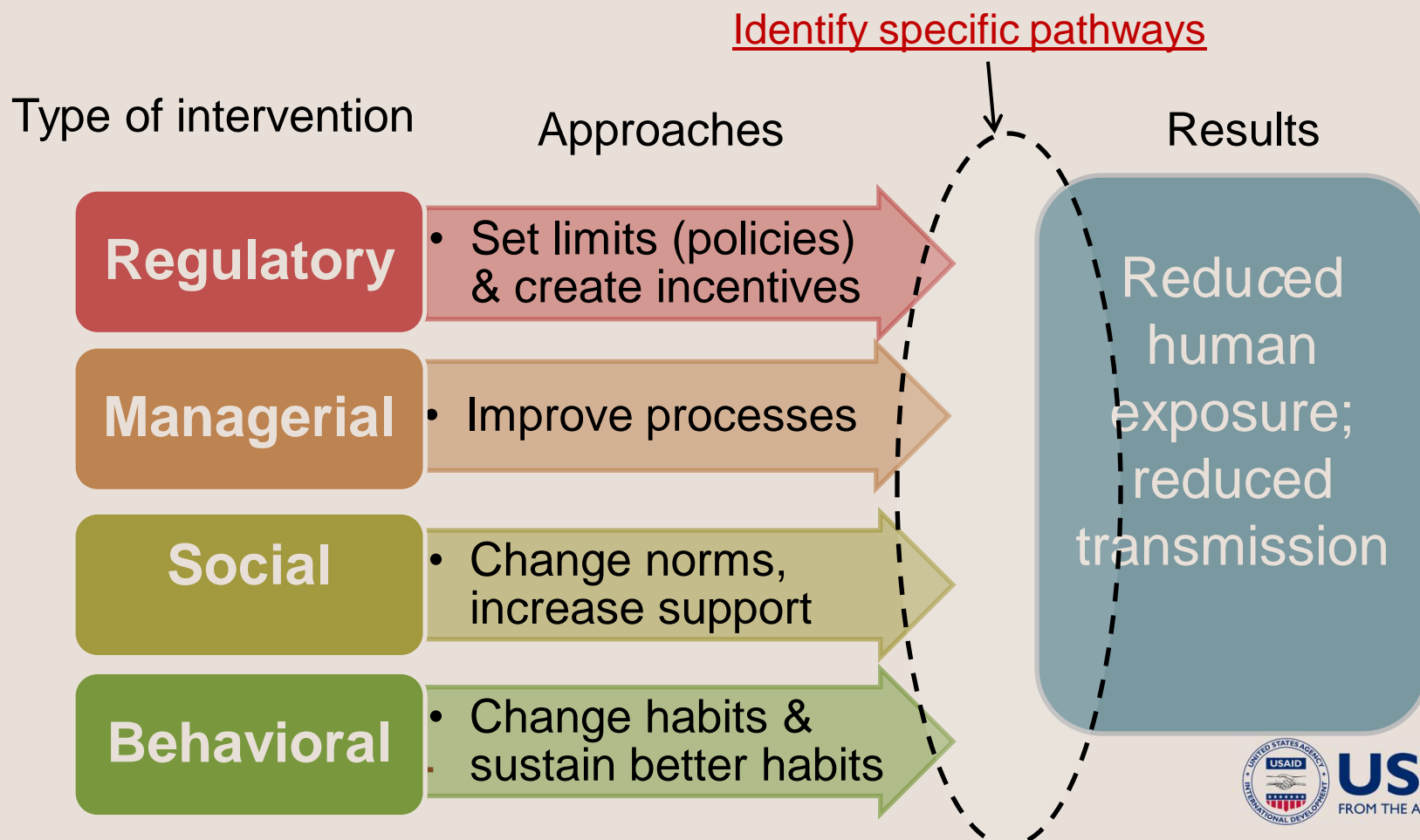


# Factors for Emergence of Zoonotic Diseases





# Objective 1: Develop a strategic framework for risk reduction







## Objective 2: Characterizing “high-risk” behaviors and practices

- PREVENT will examine practices of institutions and organizations as well as individuals
- A key element of the characterization will be understanding motivation – reasons for persistence of high-risk practices or reluctance to adopt safer ones



## Objective 3: Identify "high-risk" groups

- Primarily those most likely to be exposed and infected (e.g., hunters, market vendors and others who come in contact with wild animals and their excreta)
- Including institutions and organizations that create an enabling environment for transmission (e.g., wild animal/meat trade; extractive industries: logging, mining, oil)



## Objective 4: Develop, validate and implement effective social, behavior change and communication interventions

- Assess existing interventions, adapt/improve and scale up those that are effective
- Based on evidence about highest-risk groups and practices, develop additional approaches
  - Identify key audiences, specific “do-able” practices
  - Special attention to creating an enabling policy & organizational environment

# Empowering the “Front Line”



- Provincial and District Animal Health (Veterinary) Officials
- Field Epidemiologists
- Health Care Workers

- Village Authorities
- Village Health Volunteers
- Village Animal Health Volunteers (Paravets)
- Community Leaders

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# Empowering communities to protect themselves



## *One Village = One Poultry Unit*

- Participatory Approaches Work
- Risk Assessment and Communication
- Analysis of Resources and threats
- Local Solutions



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# Progress to date

## 2.2.1. Literature Review

- Completed.
- Final report disseminated, May 2012



*Result* : Body of knowledge that contributes to what is known about exposure of humans to wildlife in Lao PDR.

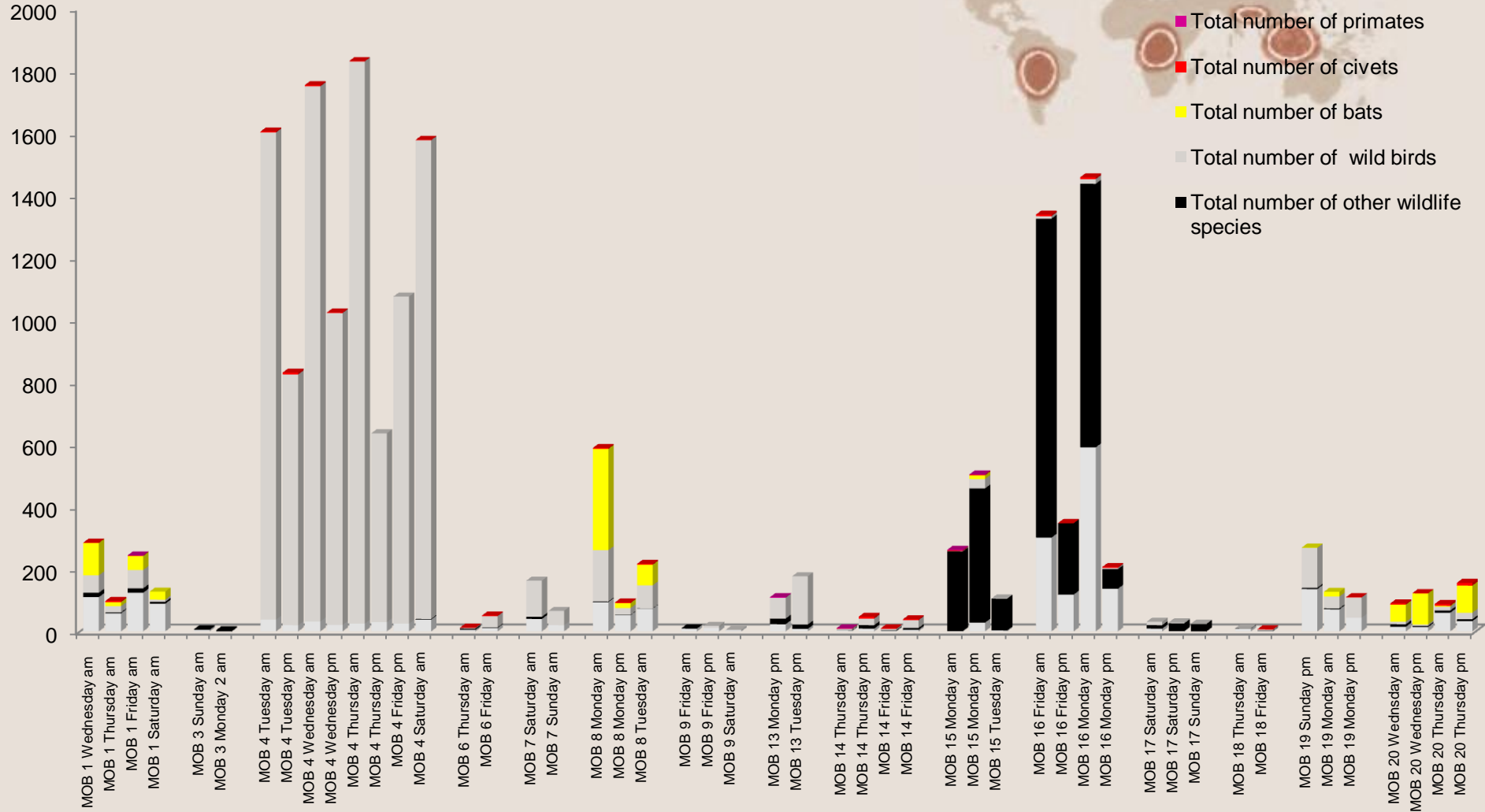
## 2.2.2 Ascertain characteristics of selected markets in PDR Lao

- Completed
- Final report shared  
Aug 3, 2012



*Result:* Information about market bio-security and understanding of types and prices of key wild species - rodents, bats, and additional wildlife found in markets in Lao PDR.

# LAOS QUANTITY/PRICESURVEY



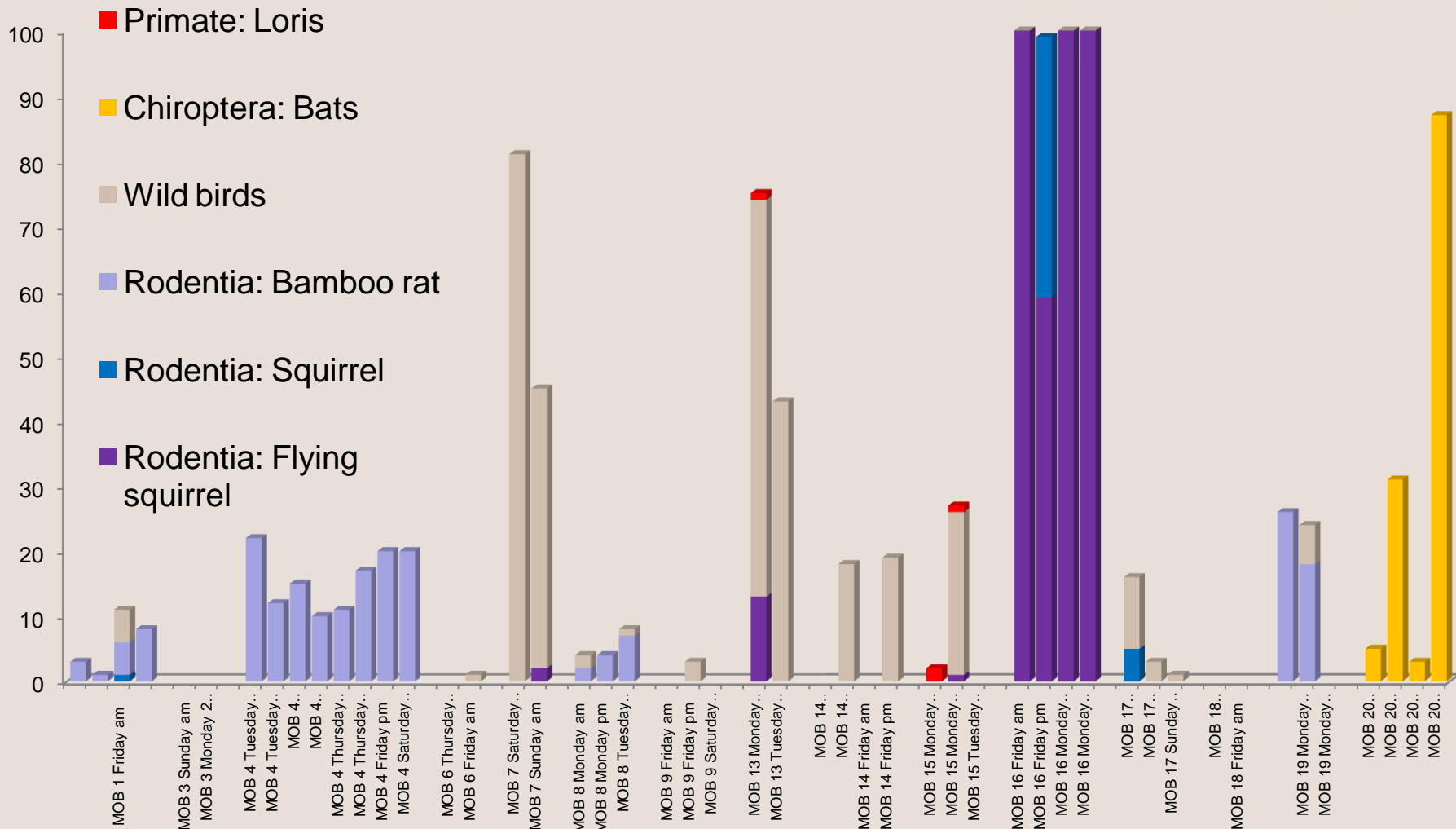
Types of wildlife found in 15 main markets on each day and time of observation.

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# LAOS QUANTITY/PRICESURVEY:

## LIVE ANIMALS OF KEY EPT SPECIES IN MARKETS



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**USAID**  
FROM THE AMERICAN PEOPLE

## 2.2.3 Human-Animal Exposure Formative Research

- Completed
- Final Report shared Aug 3, 2012.



**Result:** Information about animal names, how they are categorized, their roles, types of human-animal contact and perceived risk. Guidance for adapting the human-animal exposure survey questionnaire

# LAOS FORMATIVE RESEARCH: WAYS PEOPLE ENCOUNTER ANIMALS

	Lao (rural)	Hmong (rural)	Lao (town)	Brao (rural)
<b>Bats</b>				
Bats (unspecified)	See, Touch, Hear, Evidence	See, Touch	See	See, Touch, Evidence
<b>Rodents (partial list)</b>				
Rats (unspecified)	See, Touch, Hear Smell, Evidence	See, Touch	See, Touch	See, Touch
Bandicoot rat			See, Touch	
House mouse	See		See	See
Bamboo rat	Touch	Touch		
Flying squirrel	See, Touch, Hear	See, Touch	Touch	See
Porcupine	See, Touch		See	Evidence
Squirrel	See, Touch, Hear	See, Touch	Touch	Touch, Evidence

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## 2.2.6 Extractive Industry Research –

- Initiated listing key players from mining, logging and hydropower industries



*Result:* Report of Lao PDR extractive industry players, interests, political climate, incentives and barriers

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## 4.2.2 Market Working Group –



- Provided TA to the MWG in the conduct of market AI campaign with poultry traders, vendors and slaughterers before the Lao new Year

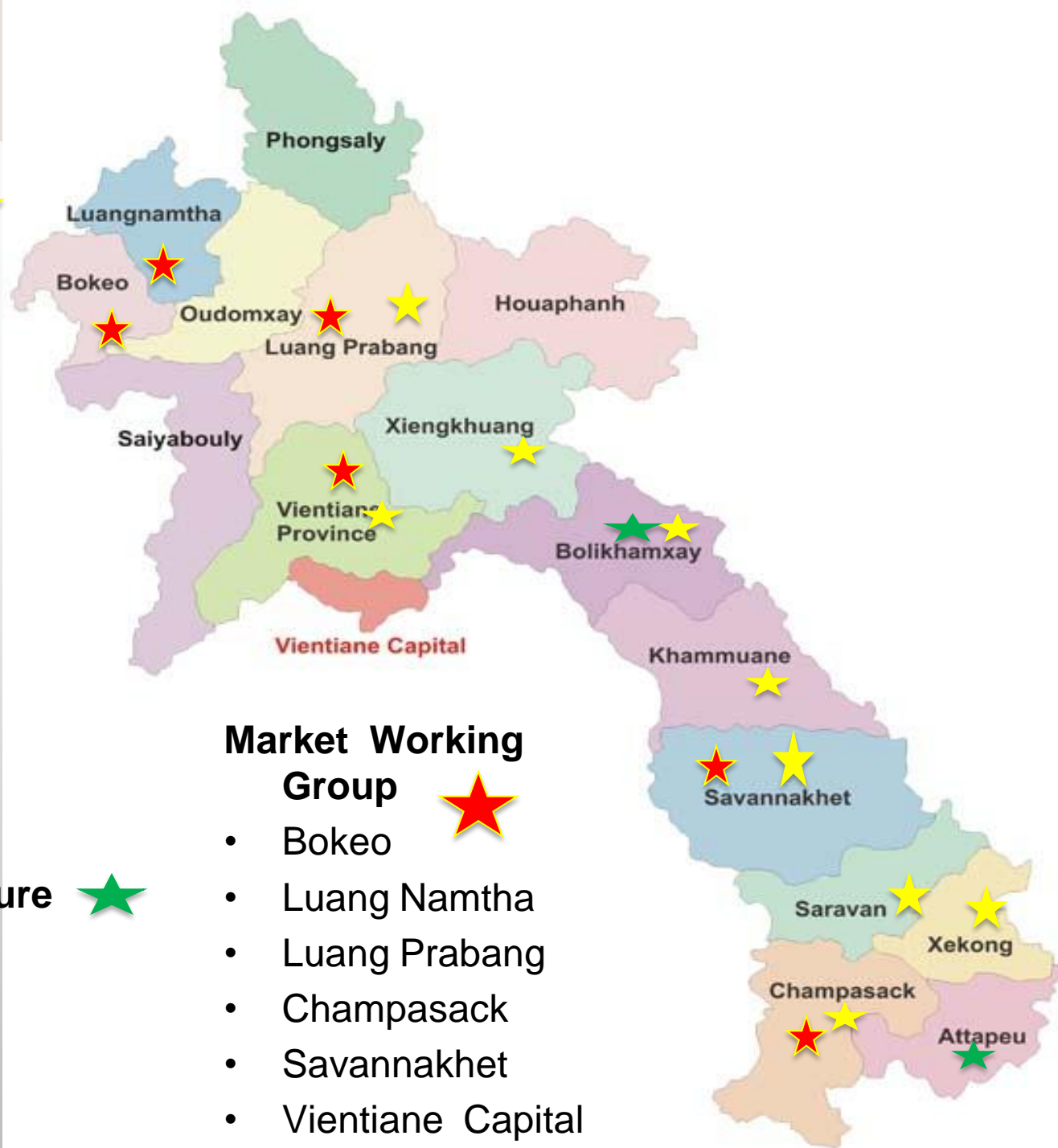
*Result : Expansion of MWG to cover EID's and One Health.*

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# Location

## Market Monitoring

- Vientiane
- Xieng Khouang
- Luang Prabang
- Champasack
- Xekong
- Saravan
- Savannakhet
- Bolikhamxay
- Khammouane



## Market Working Group

- Bokeo
- Luang Namtha
- Luang Prabang
- Champasack
- Savannakhet
- Vientiane Capital

## Human-Animal Exposure Formative Research

- Bolikhamxay
- Attapeu



**Thank you!**

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