



World Organisation  
for Animal Health  
Founded in 1924



15<sup>th</sup> Meeting of the Upper Mekong Working Group  
on Foot and Mouth Disease Zoning and Animal  
Movement Management

Animal Movement Pathways  
Upper Mekong Region

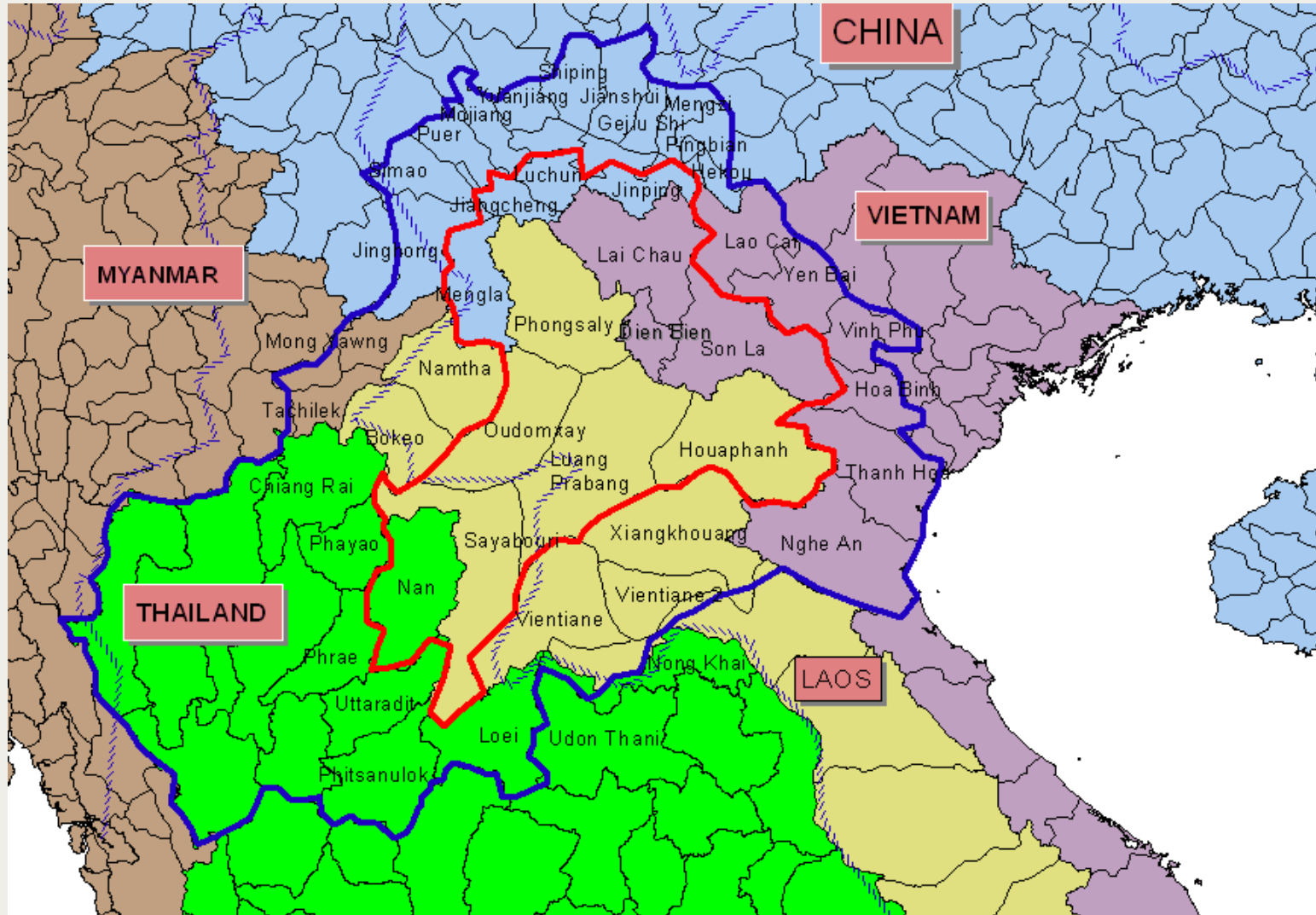


*Bolortuya, P*  
*WOAH SRR SEA*

*24-26 April 2024,*  
*Luang Namtha, Lao PDR*

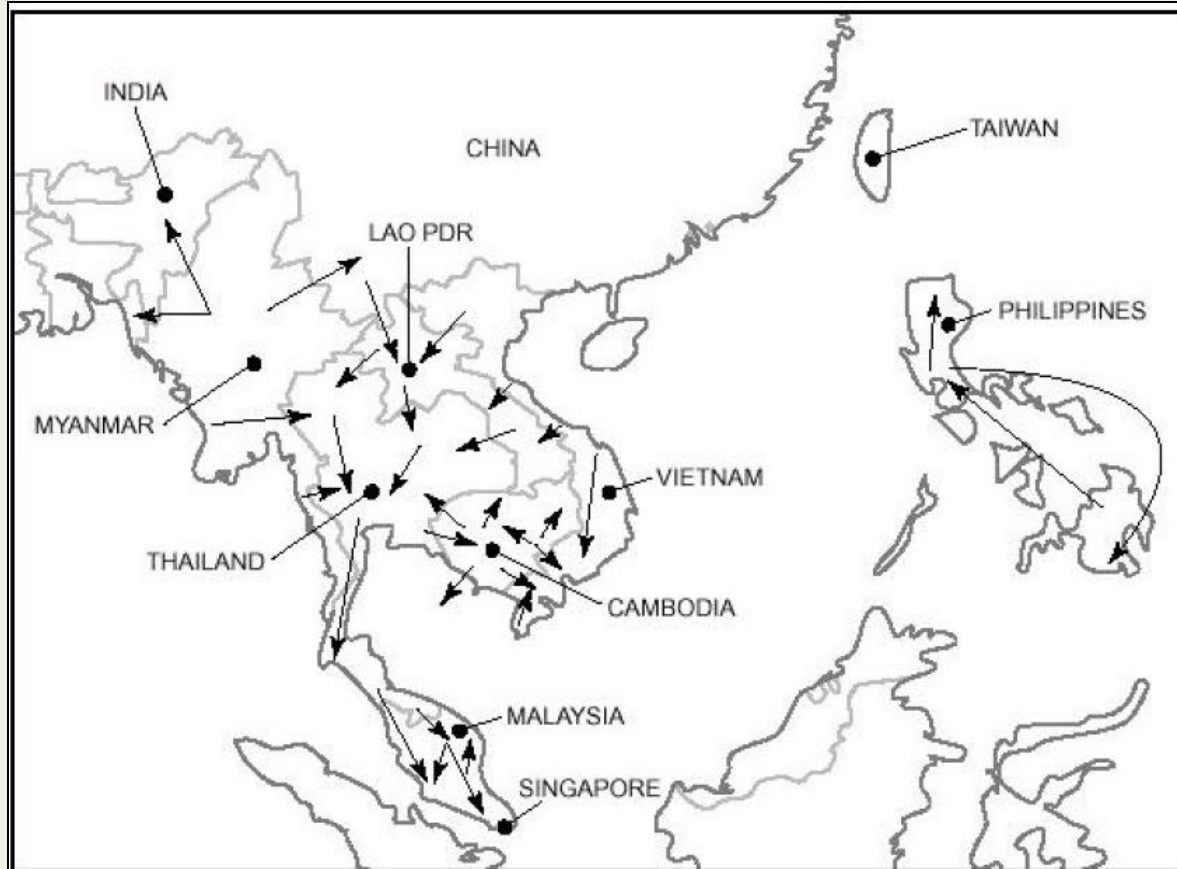


# Upper Mekong Zone

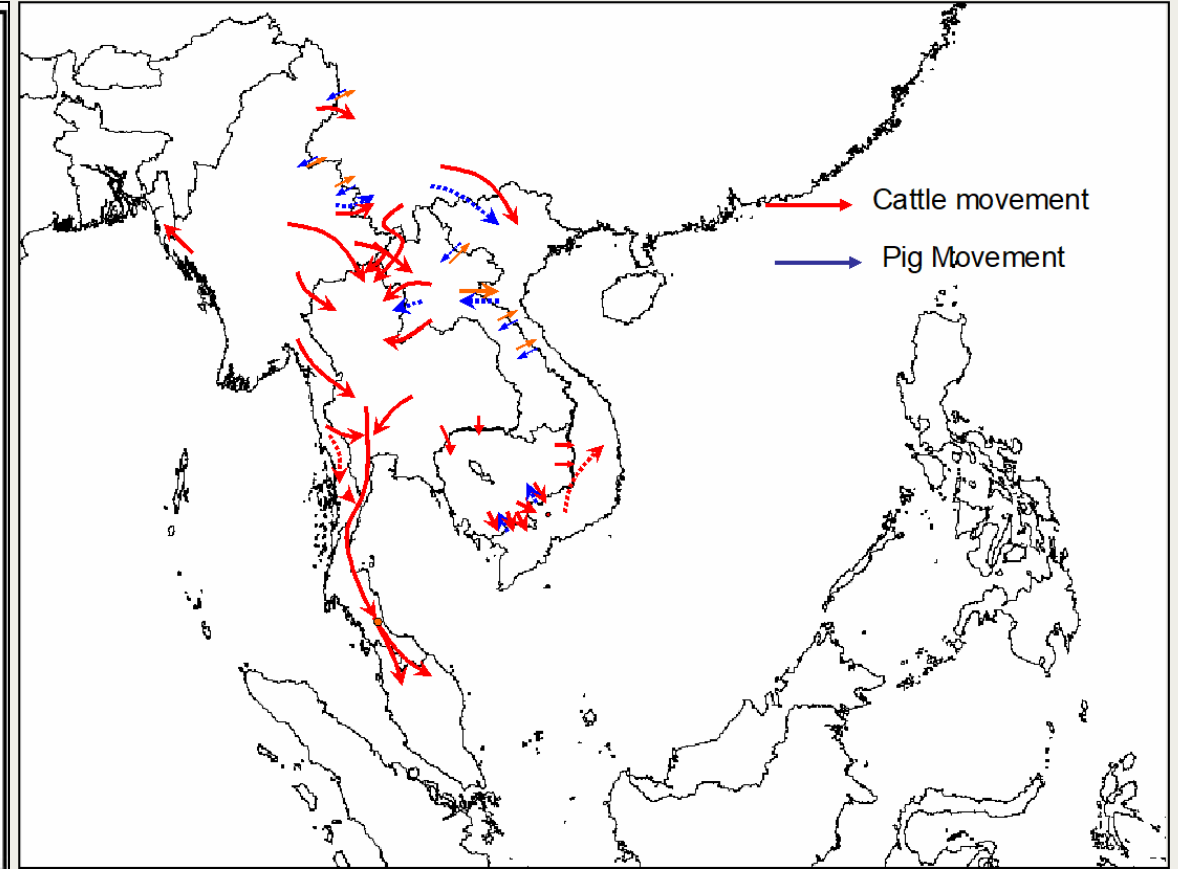




## Animal movement (1998)

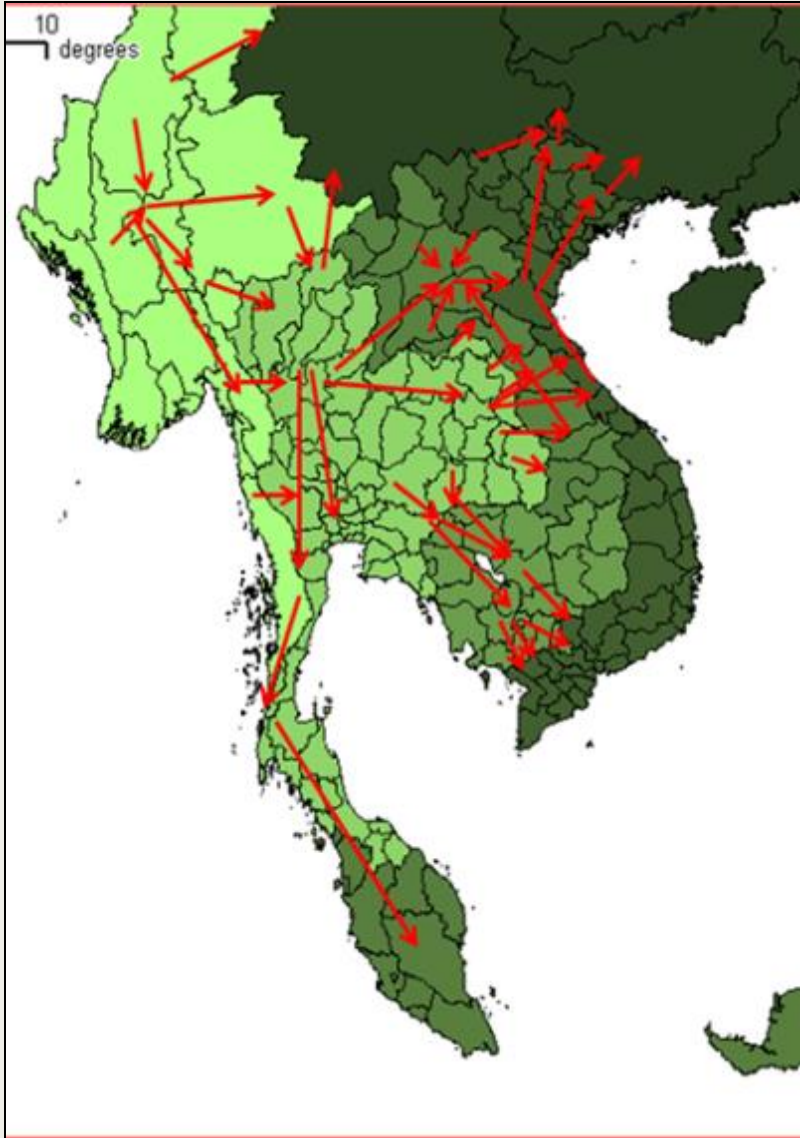


## Animal movement (2006)





Animal movement (2009)



Animal movement (2013)





# Movement pathways and market chains of large ruminants in the Greater Mekong Sub-region 2015



FUNDED BY THE GOVERNMENT OF PR CHINA AND AUSTRALIAN STANDZ INITIATIVE



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# Participating Countries

China

Lao PDR

Myanmar

Thailand

Vietnam





<b>CHINA</b>	Yingjiang County, Yunnan Province	Kachin State, Myanmar
	Ruili Counties, Yunnan Province	Shan State, Myanmar
	Gengma Counties, Yunnan Province	Shan State, Myanmar
	Menglian Counties, Yunnan Province	Shan State, Myanmar
	Jinghong County, Yunnan Province	Shan State, Myanmar
	Meng La County, Yunnan Province	Luang Namtha Province, Lao PDR
	JingXi County, Guangxi Province	Cao Bang Province, Vietnam
<b>LAO PDR</b>	Luang Namtha Province	Meng La County, China
	Bokeo Province	Chiang Rai Province, Thailand
	Bolikhamtai Province	Nghe An Province, Vietnam (to the East)
		Buang Kan Province, Thailand (to the West)
<b>MYANMAR</b>	Central Myanmar (Bago, Mandalay, Magway)	China/Thai border areas could not be visited due to security concerns
	Moulemein, Mon State	Not border area – port in Myanmar
<b>THAILAND</b>	Chiang Rai Province	Bokeo Province, Lao PDR and Shan State, Myanmar
	Tak Province	Kayin State, Myanmar
	Petchaburi and other Provinces	Fattening area for cattle destined for China
	Kanchanaburi	Tanintharyi Division, Myanmar (also identified as fattening area for cattle destined for China)
<b>VIETNAM</b>	Cao Bang Province	JingXi County, China
	Lang Son Province	Ping Xieng County, China
	Quang Ninh Province	Dong Xing County, China
	Hanoi	Slaughterhouses – destination of animals crossing border



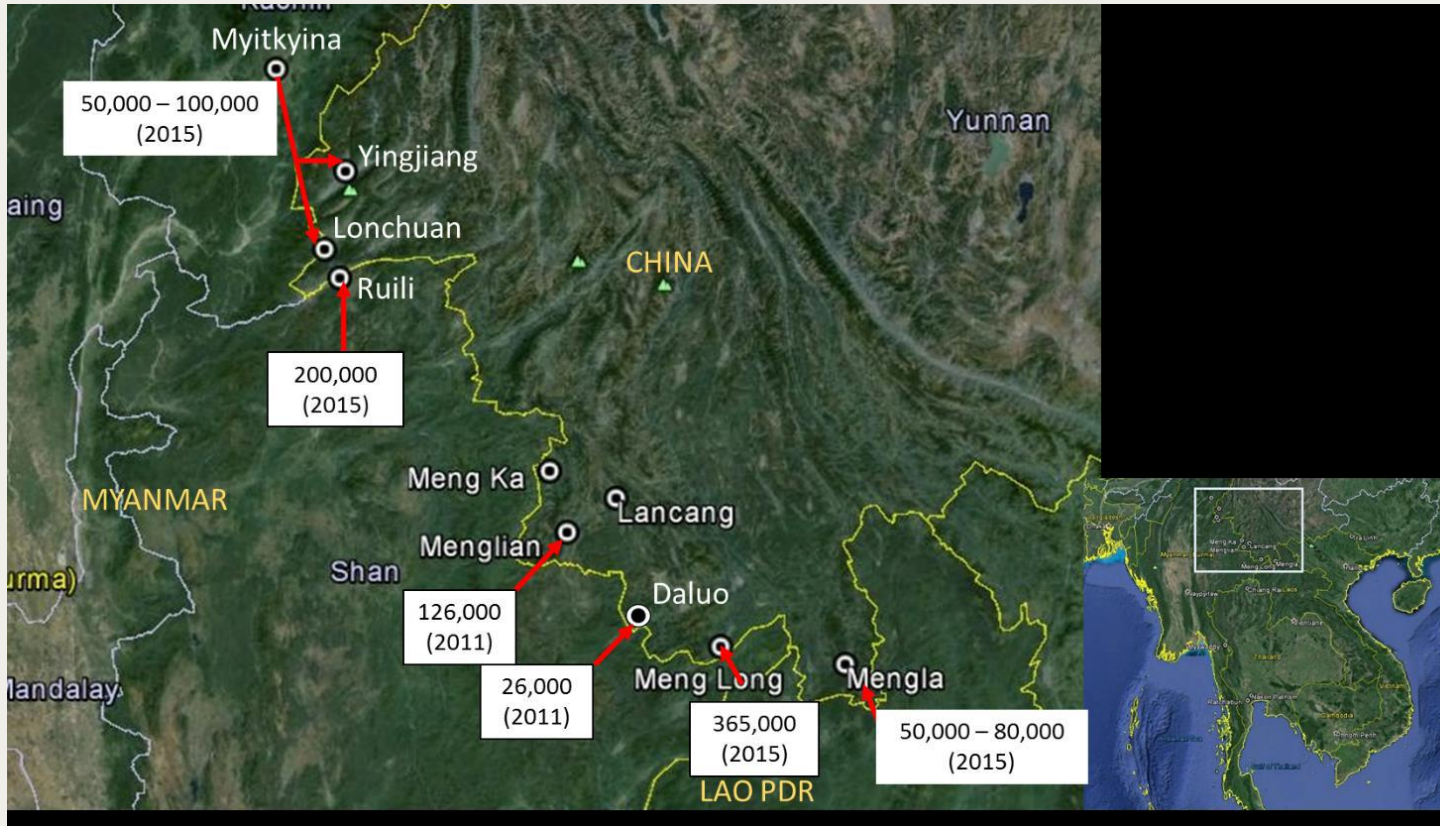
# Myanmar

- Source of large ruminants
- Potential 'gateway' to the region from neighbouring countries





# Myanmar to China

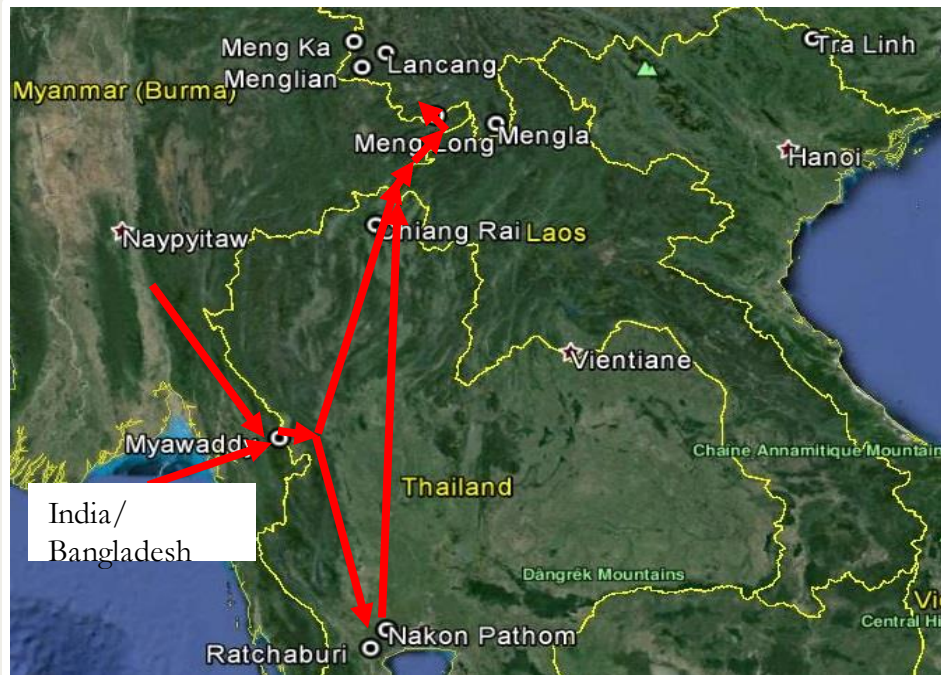


A map showing the major border crossing points between Myanmar and China and Lao PDR and China

- Menglian
- Menghai (Daluo)
- Jinghong
  
- Mandalay-Lashio
  - Muse-Ruili
- Mandalay-Myitkyina(Katchin)
  - Yingjian and Longchuan



# Myanmar to China



## Pathway to Jinghong, China

- Originated from India, Bangladesh and gathered in Myanmar
- Transported them to Chiang Rai
- Maywaddy (Myanmar) - Mae Sot (Thailand)



# Muse-Ruili Crossing

Active border crossing for large ruminants  
for many years

Chinese traders buy cattle in Mandalay

Employ locals to transport to the China  
border

Mandalay-Lashio

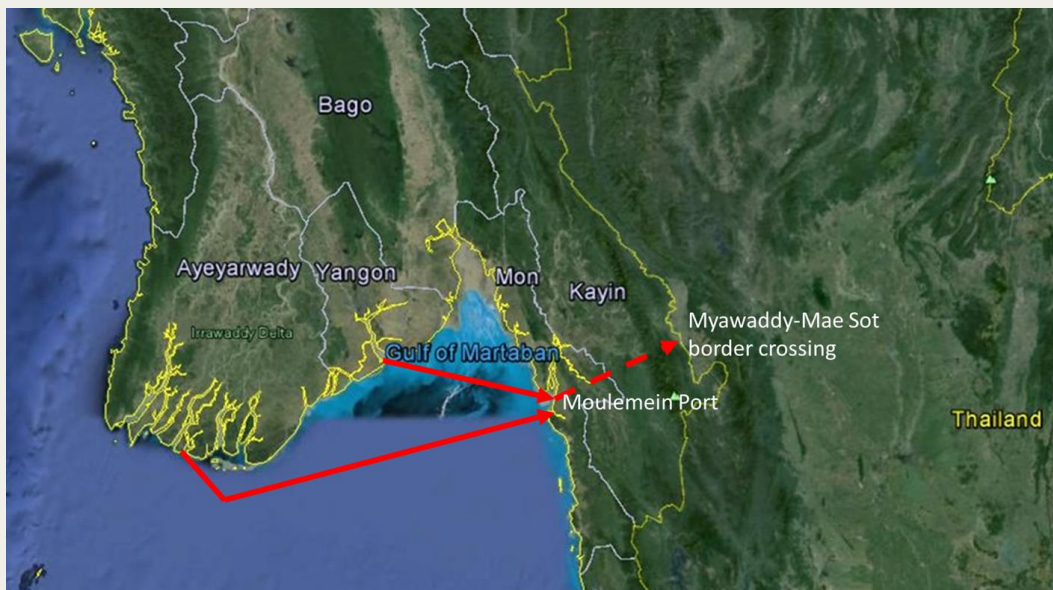




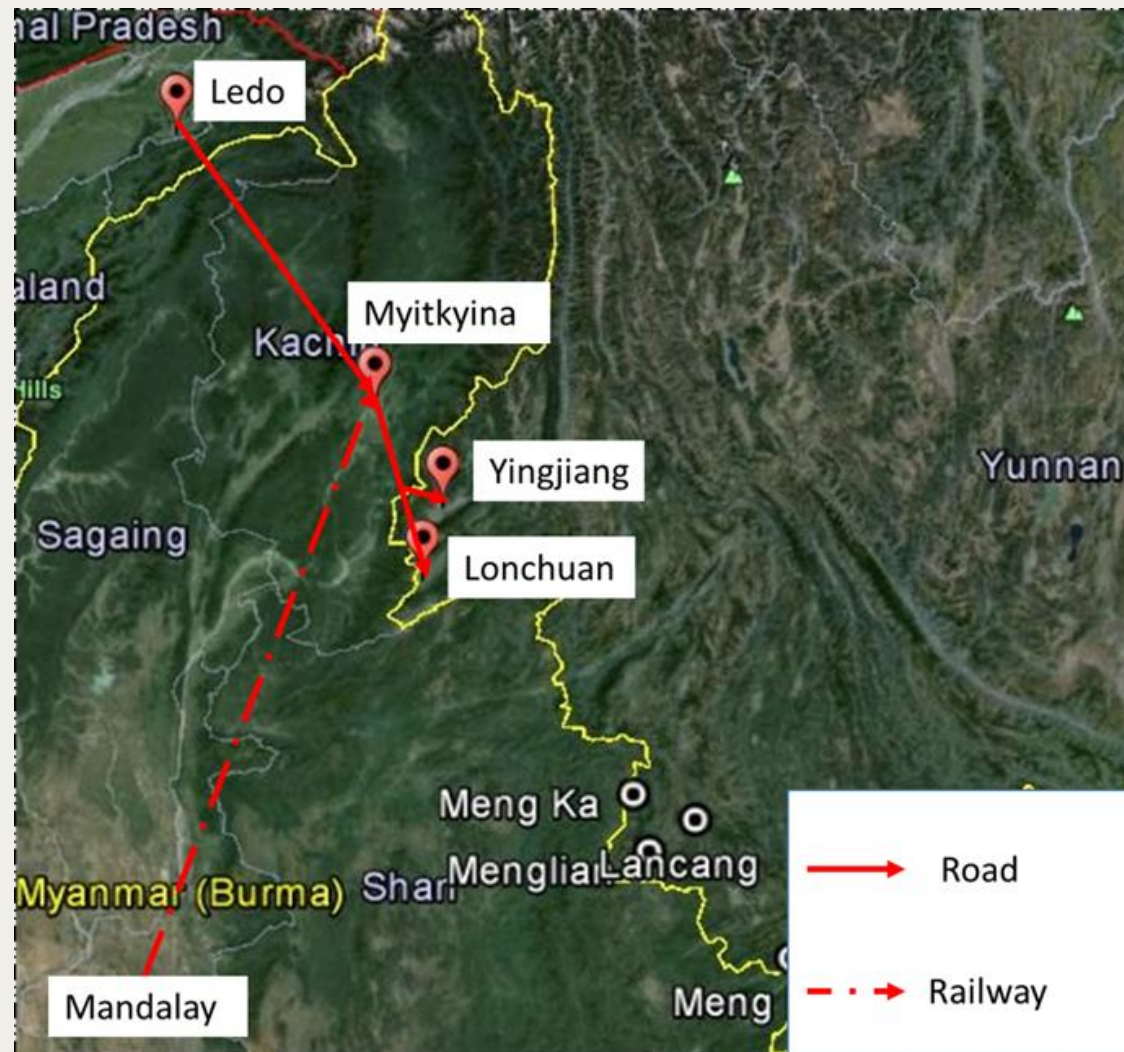
## Myanmar to Yingjiang/Lonchuan

Mandalay -Myitkyina in Kachin State of Myanmar by train

To Yingjiang and Longchuan Counties in China



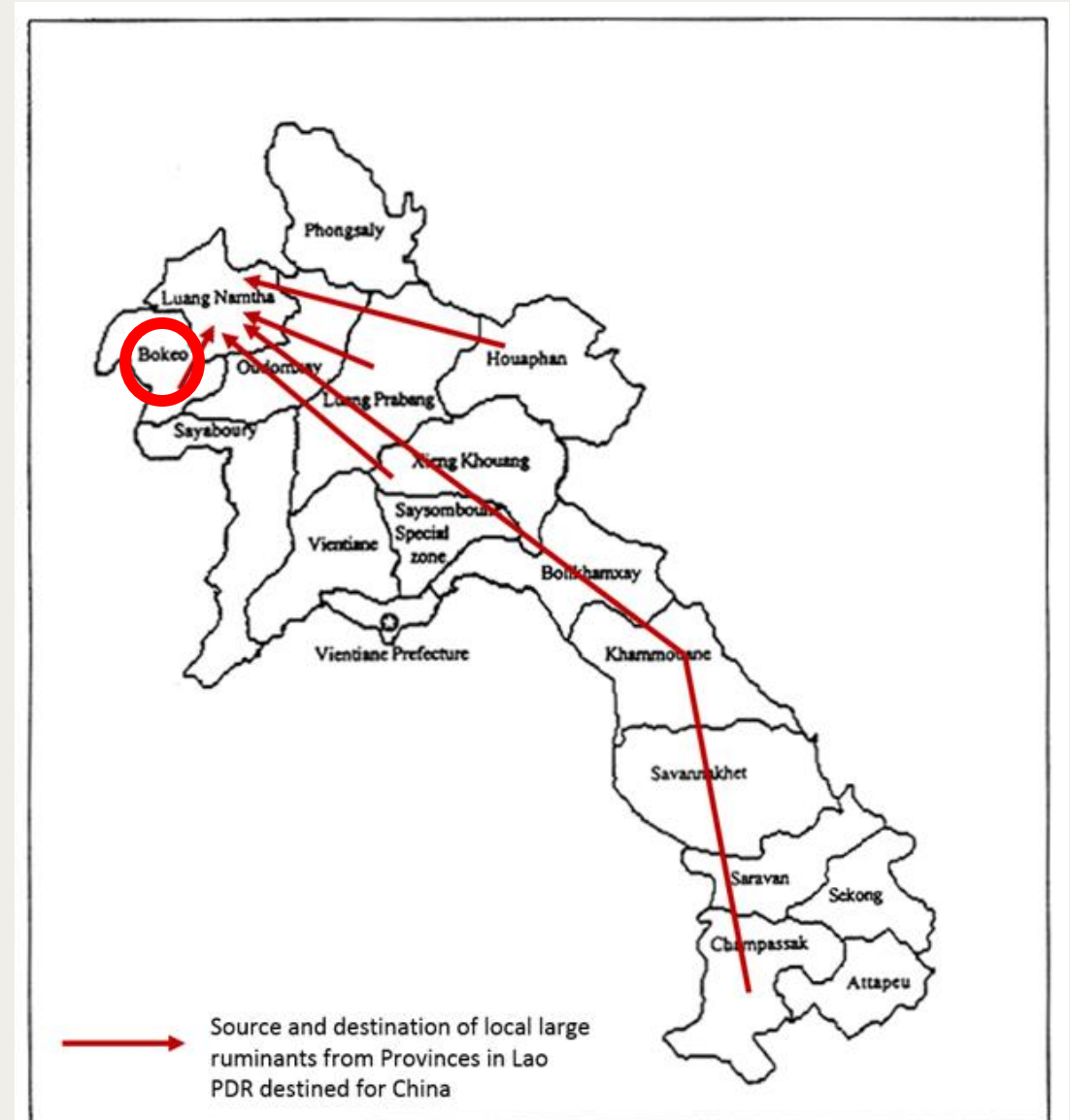
Entry of large ruminants and Moulemein Port



Map indicating the route taken by large ruminants to the Chinese border near Yingjian and Lonchuan

# Lao PDR

- Domestic movement in Lao PDR destined for Luang Namtha Province
- Mainly from Southern Provinces (Champasak) and Northern Provinces (Xieng Khouang, Luang Prabang and Houaphan)
- Lao PDR focused on the movement of large ruminants to China from the two northern Provinces of Luang Namtha and Bokeo
- Also cattle movement from Thailand to Lao PDR and Vietnam.





## Xieng Kouang Province (hub)

- Cattle moved from Xieng Kouang to Vietnam
- Cattle moved from Xieng Kouang to Vietnam and China
- Continues to be an important trading hub for large ruminants from the northern Provinces





# Thailand

- A key transit country for cattle and buffalo destined for China
- Hub for quarantine and fattening



# Thailand



*A map showing the major movement pathways from Central Myanmar and Bago to the border between Kayin State in Myanmar and Thailand*

## ***Entry/import:***

- Myanmar Myawaddy/Mae Sot
- Three Pagoda pass/Kanchanaburi

## ***Direct export:***

- Local cattle move to Chiang Rai for export to Lao PDR, destined for China.

## ***Fattening:***

- Petchaburi, Ratchaburi, Kanchanaburi, Suphan Buri, Prachaup Khiri Khan.

## ***Export:***

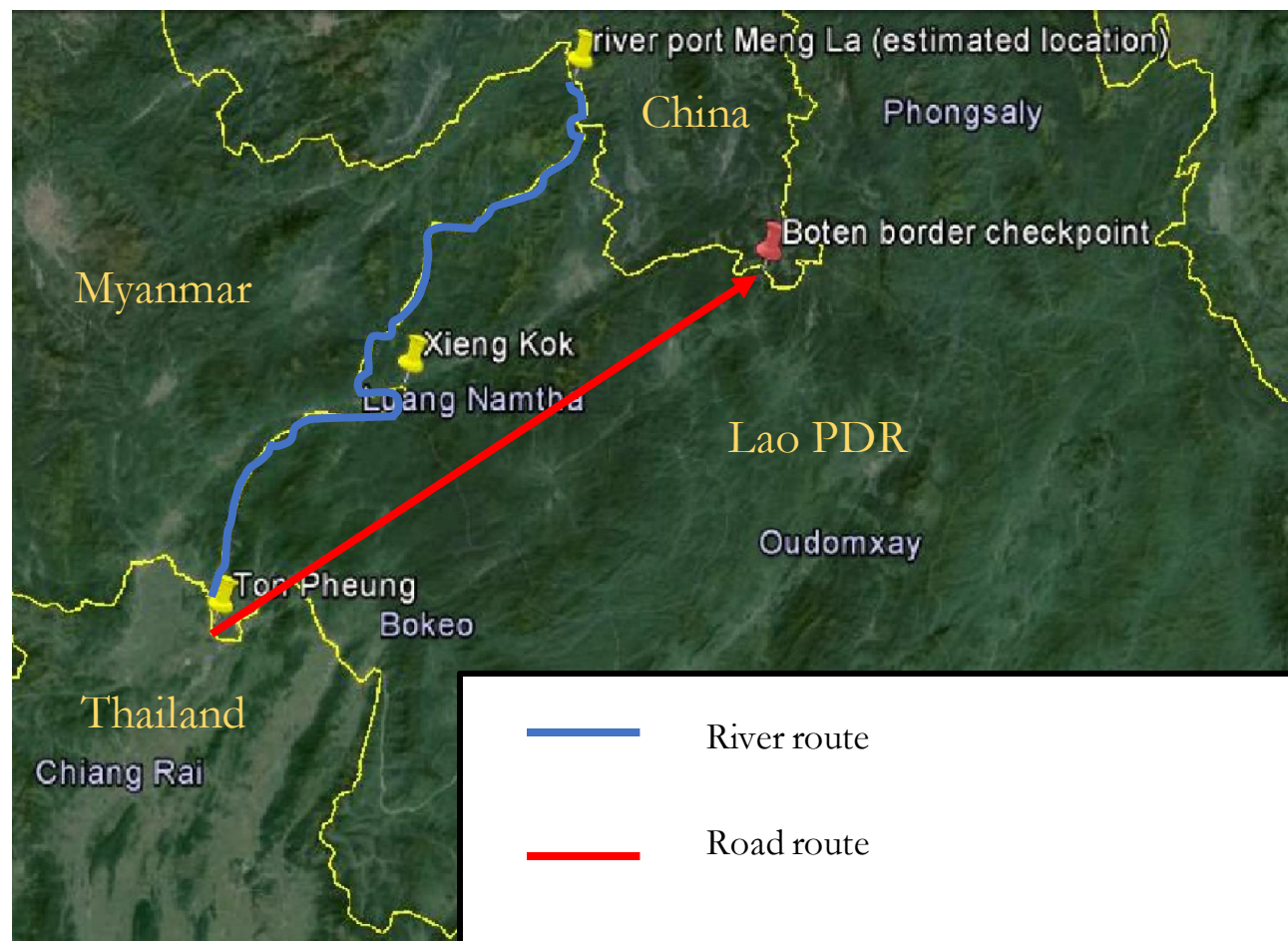
Chiang Saen, Chiang Rai for export to Lao PDR destined for China



# Thailand



Main fattening hubs in Thailand

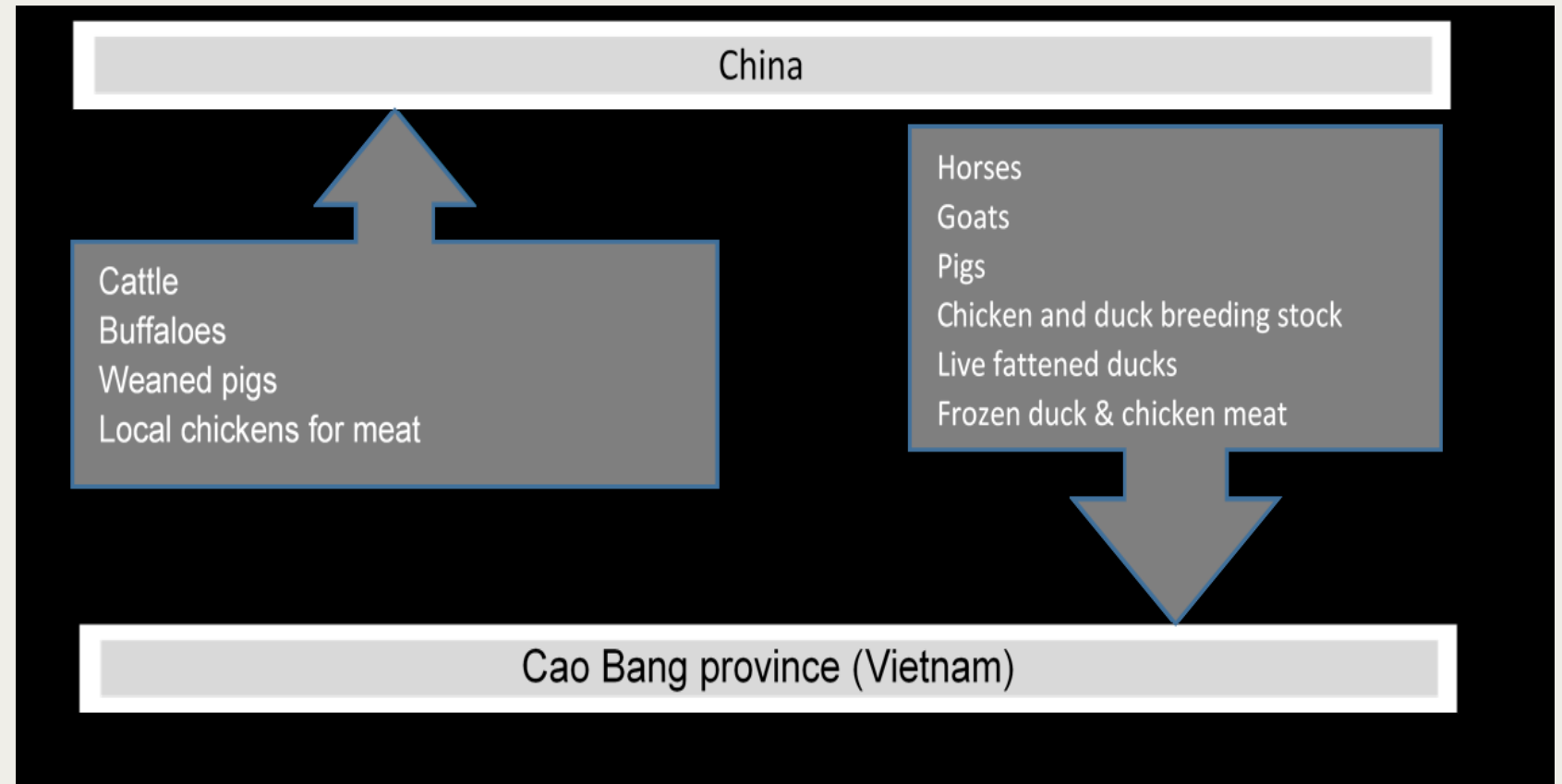


Road route and river route: Thailand to China via Lao PDR



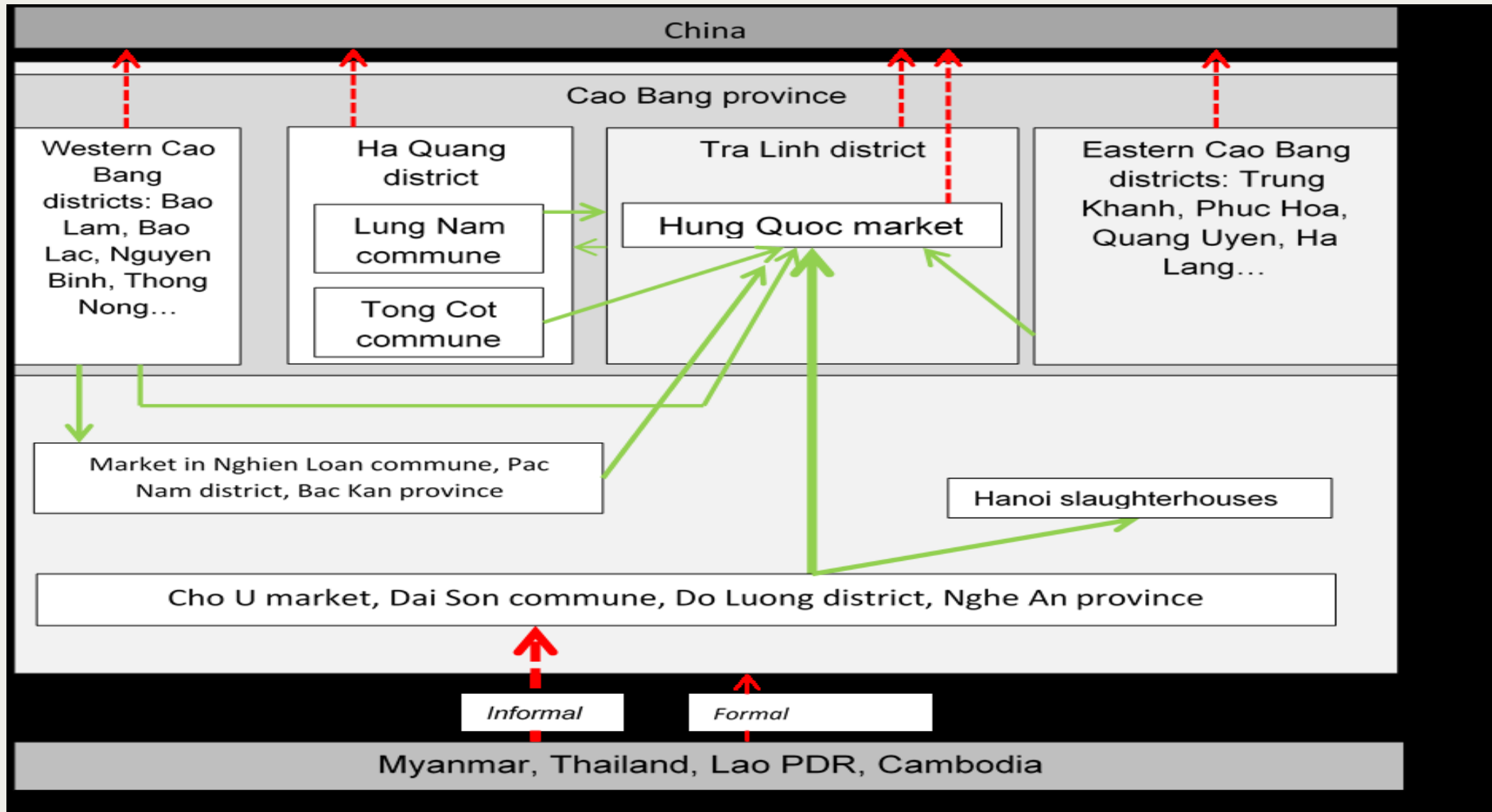
# Vietnam

Cao Bang Province is an historically important pathway for cross-border trade



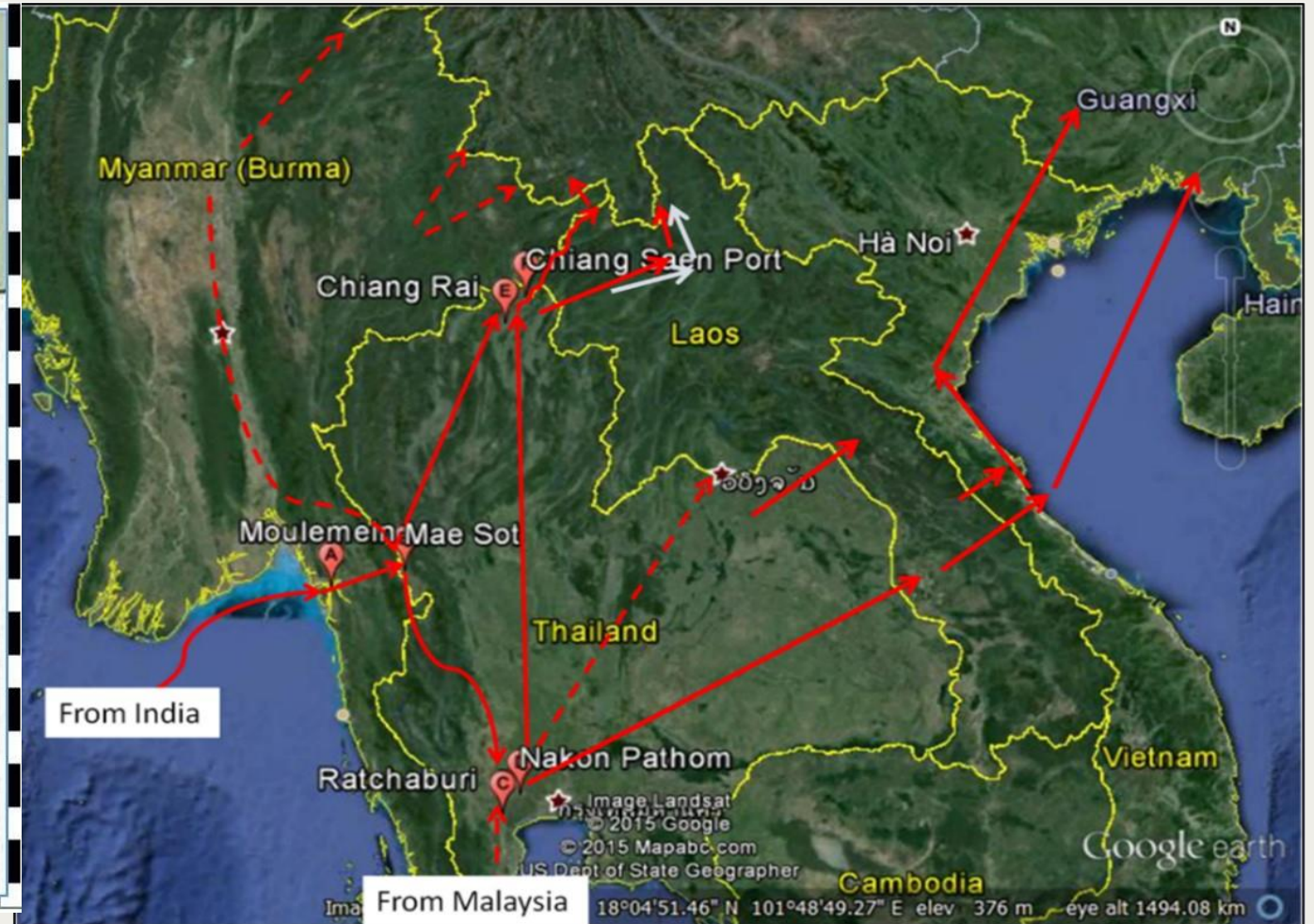


## Schematised trade pathway for cattle and buffalo from Vietnam and other GMS countries to China through Cao Bang Province





# Summary of regional movement pathways





**THANK YOU FOR YOUR  
ATTENTION**

