

**6th Global Conference of IPSI  
12-14 January 2016 Siem Reap, Cambodia**

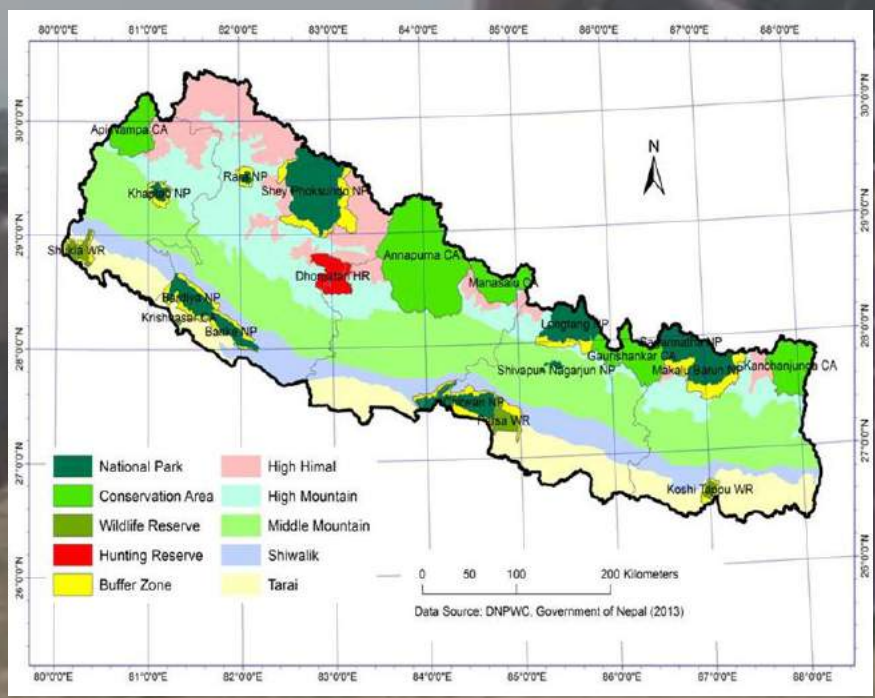


- **Mangal Man Shakya  
Wildlife Watch Group**

- **Damage of SEPLS in  
Nepal due to epic  
earthquake in April-May  
2015.**



- Over 2.28 million households and 8 million people in 31 districts affected with total damage and loss of NPR 28.4 billion (USD 284 million)
- About 9,000 people died (55% women), 22,220 were injured, and over 100,000 people were displaced
- Seven protected areas including two Ramsar sites with 47% of the total area and 27% of buffer zones and 41% of total forested areas affected

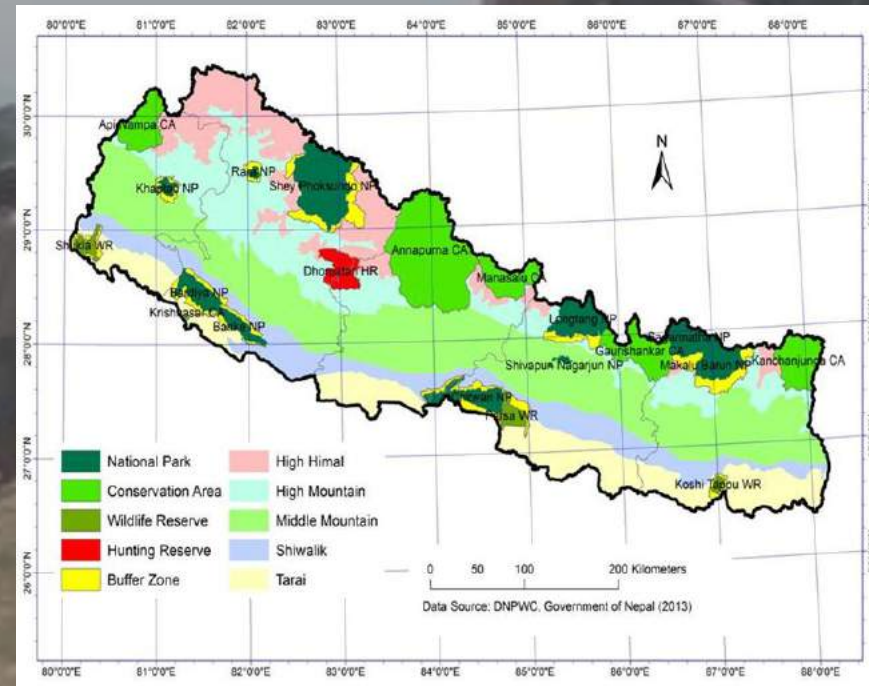






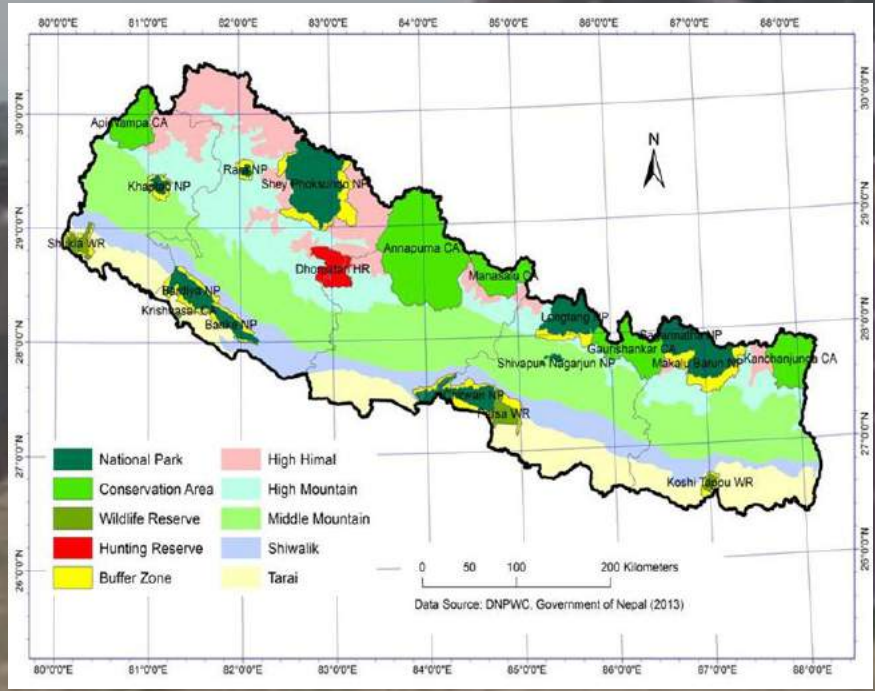
- Out of 75, 31 districts were affected. About 135,200 tonnes of foodstuff has been lost, 17,290 large livestock, 40,976 small livestock and 507,665 poultry animals died following the collapse of buildings. 180,00 people engaged in tourism were affected.

- More than 500,000 private properties were completely damaged.





- The total value of the damage and loss caused by the earthquake is estimated to be USD 7 billion, which is equivalent to about one third of Nepal's gross domestic product.





# Impacts on infrastructure

SN	Name of PAs	Before earthquake		After earthquake*		Cost estimate of the damage (NPR)	Estimated cost for reconstruction (NPR)
		No. of office buildings/ posts	Security buildings / posts	No. of office building/posts damaged	Security buildings/ posts damaged		
1	SNNP	32	70	14	70	6,825,000	55,182,000
2	LNP	28	84	26	84	26,150,000	97,000,000
3	MBNP	26	0	5	0	20,500,000	35,500,000
4	SNP	31	18	28	18	5,875,000	10,130,000
5	GCA	8	0	8	0	1,200,000	72,000,000
6	MCA	11	0	3	0	9,750,000	12,500,000
7	ACA	8	0	7	0	7,500,000	15,400,000
<b>Total</b>		<b>144</b>	<b>172</b>	<b>91</b>	<b>172</b>	<b>77,800,000</b>	<b>297,712,000</b>

\* Some are completely damaged and some partially

SN	Name of PAs	Total length of trails (km)	Total length of trail damaged by earthquake (km)	Road network (km)	Road network damaged by earthquake (km)	Cost estimate of the damaged trail (NPR)	Estimated cost for reconstruction of damaged trail (NPR)
1	SNNP	50	5	150	1	1,250,000	3,250,000
2	LNP	172	60	75	15	15,000,000	39,000,000
3	MBNP	200	40	0	0	10,000,000	26,000,000
4	SNP	205	21	0	0	5,250,000	13,650,000
5	GCA	70	15	NA	NA	3,750,000	9,750,000
6	MCA	184	6.5	0	0	1,625,000	4,225,000
7	ACA	235	3	NA	NA	750,000	1,950,000
<b>Total</b>		<b>1,116</b>	<b>151</b>	<b>225</b>	<b>16</b>	<b>37,625,000</b>	<b>97,825,000</b>

# Post disaster response by WWG

## Response

Food and drinking water supplies (Rice/ bitten rice, lentil/bean, salt, dry food, noodles etc)

Non-food items (Blanket, mattress, clothing etc) and medicines

Temporary shelter (Tent, tarpaulin etc)

Water, health and sanitation

Uninterrupted wildlife patrolling and monitoring





# Paradigm shift – species to landscape



Landscape/ecosystem approach



1998

2014

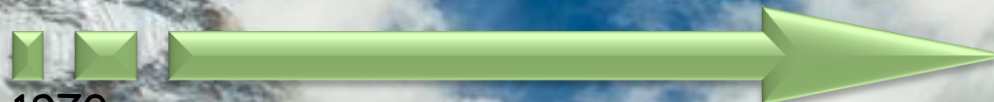
Buffer zone/community based approach



1980

2002

Habitat/PA management approach



1970

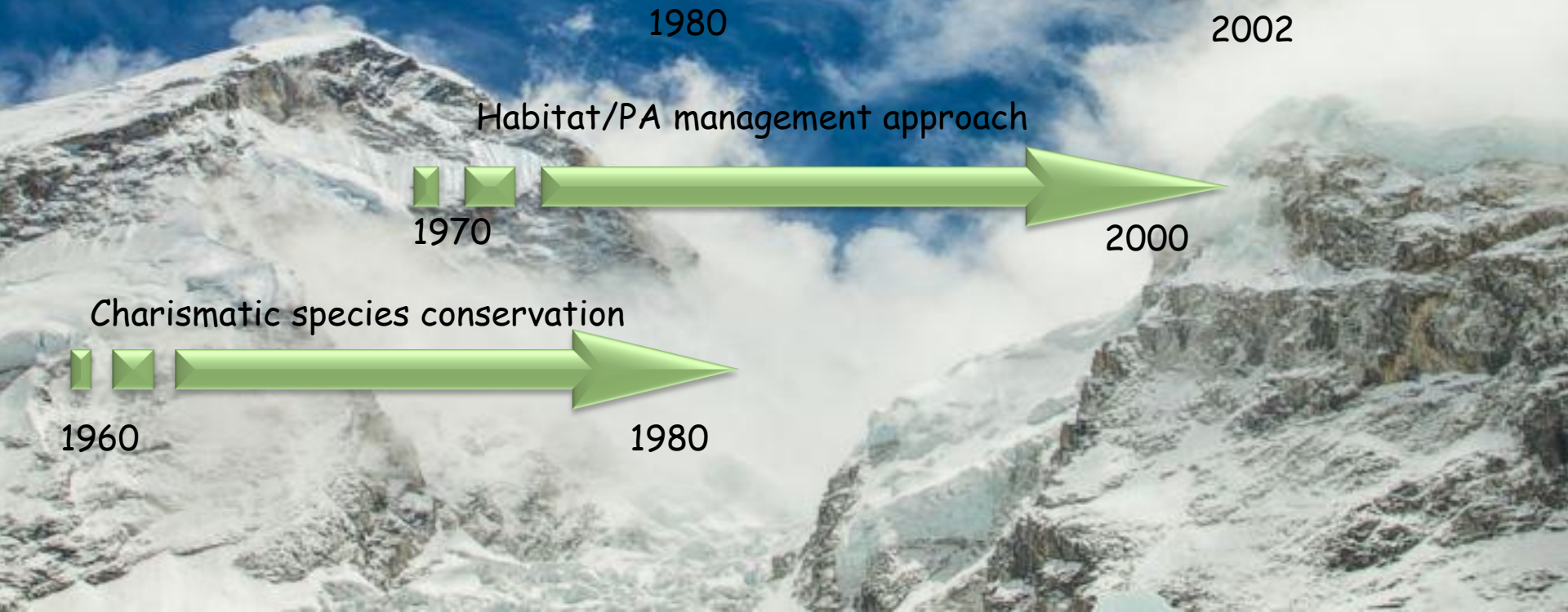
2000

Charismatic species conservation



1960

1980



# Impacts on species: an example



Population status of Snow Leopard in Nepal				
Habitat Blocks	Density/ 100 Km <sup>2</sup>	Number		
		Mean	Lower	Upper
Western	3.2	319	280	349
Rolwaling	1.5	17	6	24
Sagarmatha	1.8	4	2	5
Kangchenjunga	2.6	18	13	21
<b>Total</b>		<b>358</b>	<b>301</b>	<b>400</b>

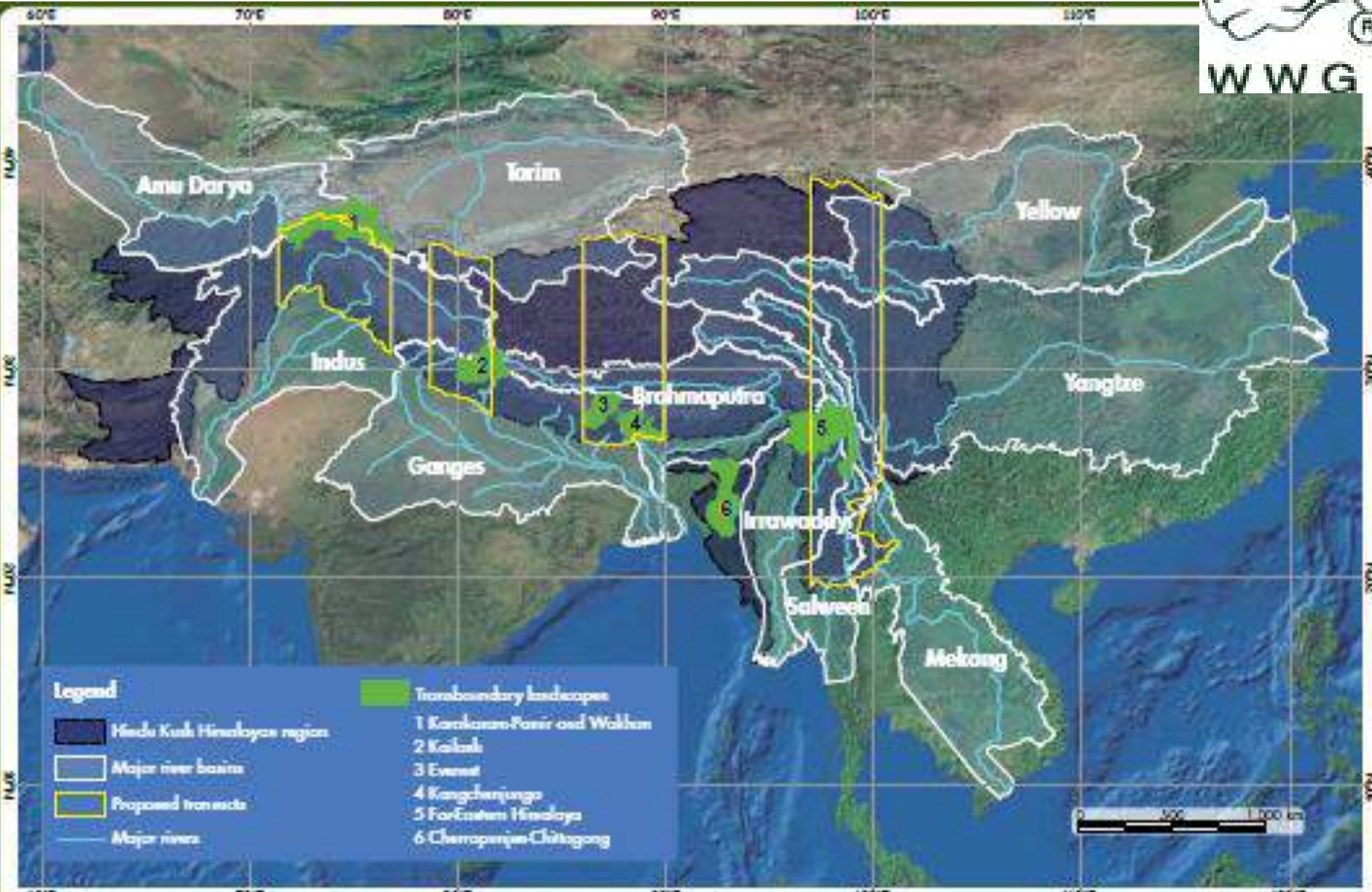
Snow leopard in affected areas		
PAs	Estimated Population	Potential Habitat (Km <sup>2</sup> )
SNNP	0	-
MBNP		853
SNP	4	220
Rolwaling (GCA+ LNP)	17	1,129
MCA	7	549
ACA	17	1,907.25
<b>Total</b>	<b>45</b>	<b>4,658.04</b>

Source: SLCAP for Nepal 2005-2015





# Customisation of Ecosystem approach





# Post disaster recovery needs



**Short term and long term strategies**

Permanent resettlement for those displaced from home

Restoration of tourism enterprises

**Infrastructure development**

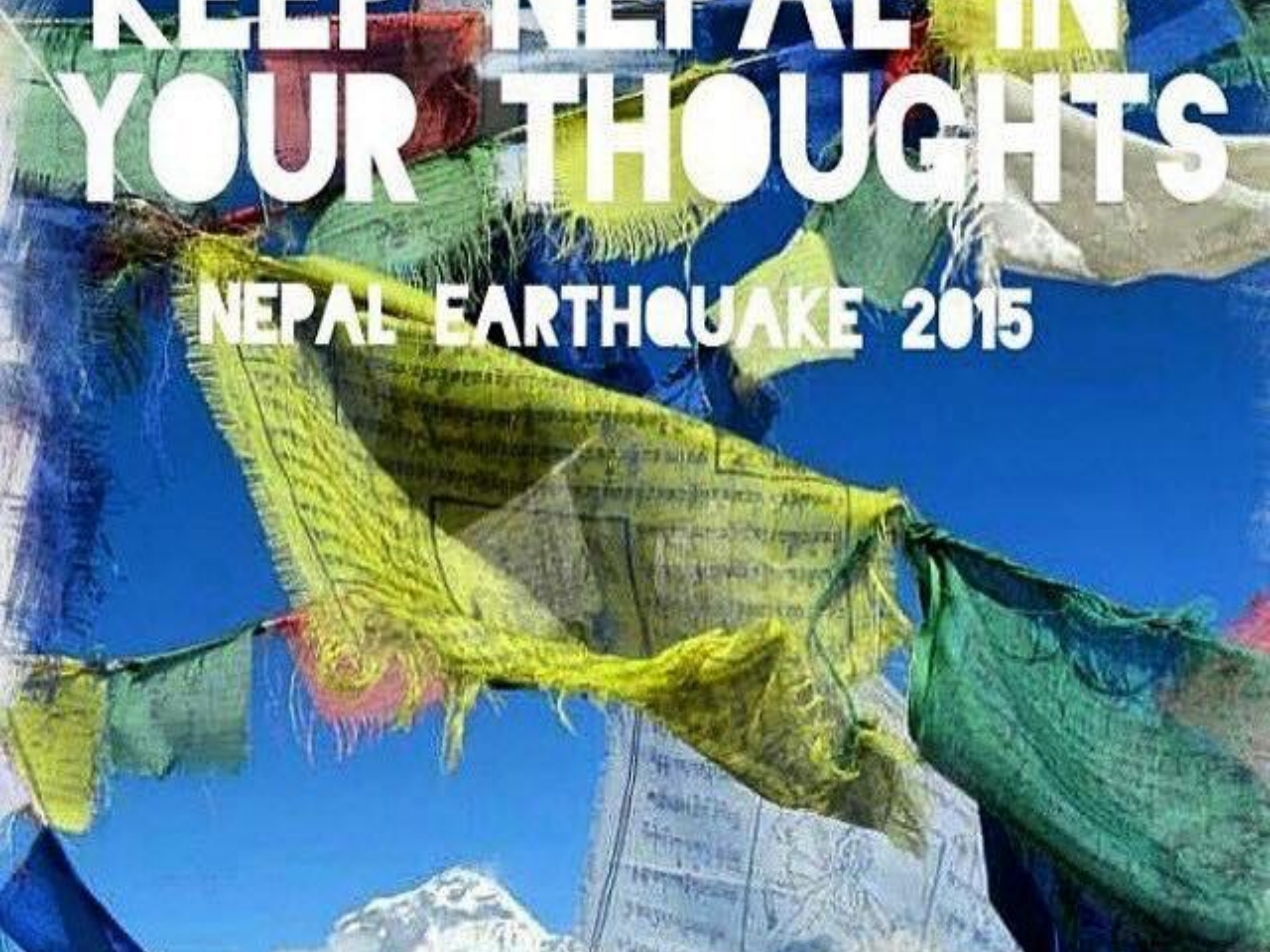
**Systematic impact assessment on biodiversity**

Species conservation and habitat restoration

**Forest based enterprise activities**







**KEEP NEPAL IN  
YOUR THOUGHTS**

**NEPAL EARTHQUAKE 2015**