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Lumpy skin disease (LSD)

An update on LSD situation and its control

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Fourth LSD Coordination Meeting for South-East Asia
28 – 29 November 2023, Bangkok, Thailand

LSD Situation

Diagnosis of Lumpy Skin Disease in Lao PDR

- Clinical Signs
- Confirm by RT-PCR on 28 May 2021 (NAHL)

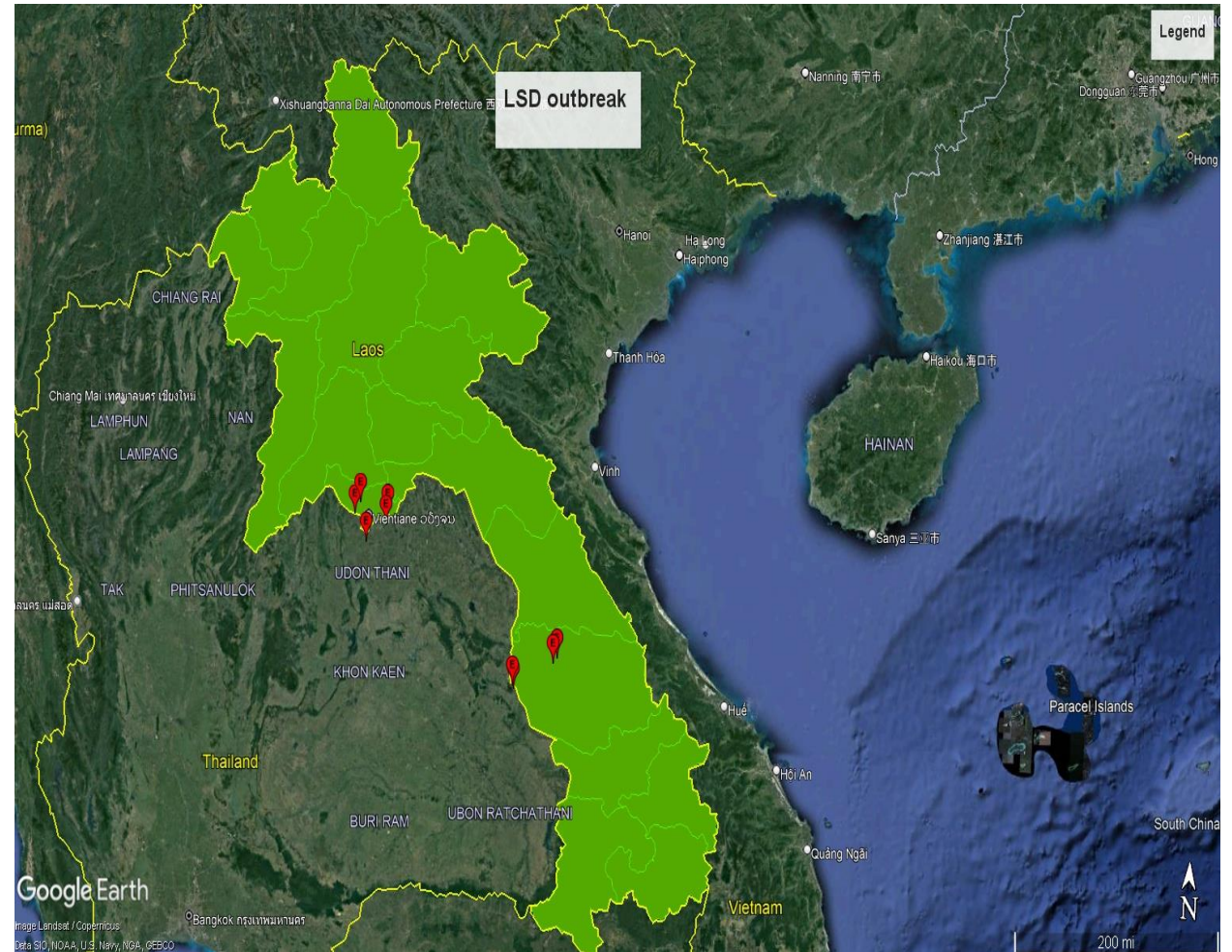
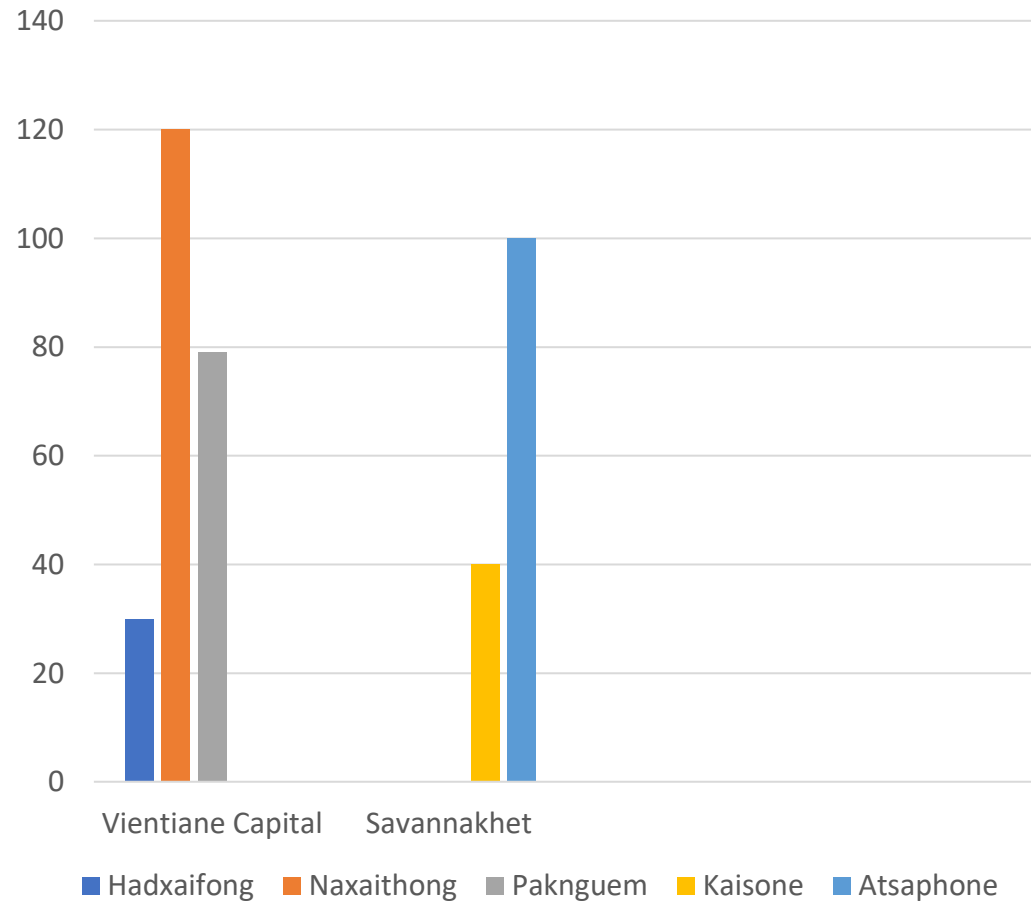


LSD Situation

ID	Province	District	Village	Latitude	Longitude	Date of Outbreak	Stop date	Cattle at Risk	Buffalo at Risk	Cattle_affected	Buffalo affected	Cattle died	Buffalo_died	Number of sample	Positive	Diagnostic Method
1	Vientiane Capital	Hadxaifong	Donfai	17.85801	102.65881	22-May-2021	21-Jun-2021	154	98	30	0	0	0	0	0	
2	Vientiane Capital	Naxaithong	Saendin	18.23214	102.54457	23-May-2021	22-Jun-2021	523	206	78	0	0	0	0	0	
3	Vientiane Capital	Naxaithong	Nayang	18.11445	102.47802	23-May-2021	24-Jun-2021	210	120	42	0	0	0	5	4	RT-PCR
4	Vientiane Capital	Paknguem	Huaynamyun	18.1536	102.9328	23-May-2021	23-Jun-2021	140	98	28	0	0	0	0	0	
5	Vientiane Capital	Paknguem	Nafaiy	18.04644	102.91684	23-May-2021	22-Jun-2021	255	180	51	0	0	0	0	0	
6	Savannakhet	Kaisone	Nongdern	16.6211677	104.7745	27-May-2021	28-Jun-2021	105	54	21	0	0	0	0	0	
7	Savannakhet	Kaisone	Nongphue	16.5875139	104.790942	27-May-2021	26-Jun-2021	97	25	19	0	0	0	0	0	
8	Savannakhet	Atsaphone	Naduae	16.871103	105.304206	28-May-2021	30-Jun-2021	220	87	44	0	0	0	0	0	
9	Savannakhet	Atsaphone	Songhong	16.9267668	105.353844	28-May-2021	29-Jun-2021	314	110	56	0	0	0	0	0	

Temporal distribution – graphs and map

LSD Outbreak in 2021



LSD Prevention and Control activities

- LSD vaccination (got support by FAO 1.900 bottles and use at Luangnamtha province)

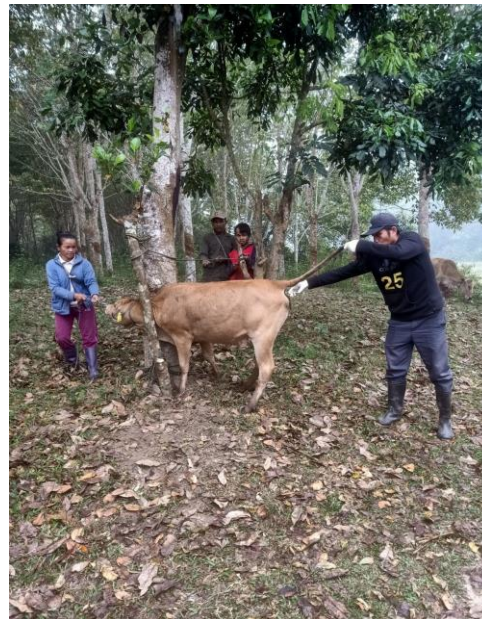


LSD Prevention and Control activities

- Animals movement control
- Slaughter campaigns (Upon arriving at the slaughterhouse, animals must be unloaded immediately from the transport vehicle and placed in the facilities holding pens.
- Management strategies
- Biosecurity protocols to prevent the introduction and spread of lumpy skin disease: Applying biosecurity principles of cleaning and isolation of affected animals



LSD Prevention and Control activities



Main challenges and recommended solution

Main challenges

- LSD is new Disease for stakeholders particularly Lao Farmer, traders.
- Informal animal movement
- Veterinary services in Lao PDR will gain experience of handling with LSD.
- Limited Veterinarian.
- Limited support funding.
- No private sector involvement yet

Recommended solution

- Continue Public awareness.
- Strengthen surveillance.
- Detail outbreak investigations and treatment of secondary infection.
- Continue control measures including animal movement control.
- Developing National Strategy plan on Control and eradication of LSD.
- Import LSD vaccine . •
- Capacity building of vet services staff on LSD control
- Engagement private sector for investment on LSD vaccine production





THANK YOU



4th LSD Coordination Meeting
28 – 29 November 2023, Bangkok, Thailand