

GSLEP program update Bhutan



VIII Steering Committee Meeting February 10 – 11, 2024 Samarkand, Uzbekistan

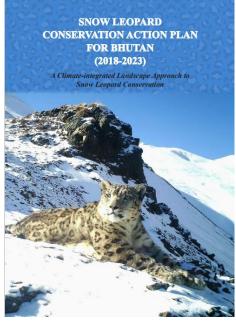
Department of Forests & Park Services Ministry of Energy & Natural Resources Royal Government of Bhutan

Bhutan State of Snow Leopard

Implementation status of the NSLEP (National Goals of GSLEP)

Nationwide Snow Leopard Survey-I (2015-2016) Snow leopard Conservation Action Plan for Bhutan (2018-2023)

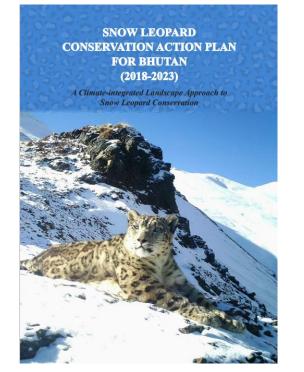
- **Goal:** To maintain a viable population of snow leopards in Bhutan with ecological links to snow leopards in the eastern Himalayan mountain landscape.
- **Target 1:** By 2023, Snow leopard populations in Bhutan are stable or *increasing*.
- **Target 2:** By 2023, important snow leopard habitat mapped and secured for conservation to ensure ecological and demographic connectivity of snow leopard population.
- **Target 3:** By 2023, over 80% of the local communities are engaged as willing conservation stewards of snow leopards, prey species and habitat.

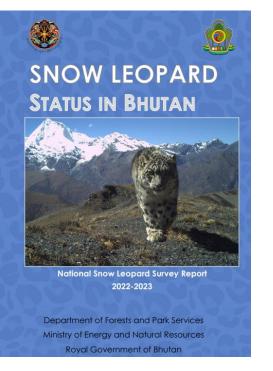


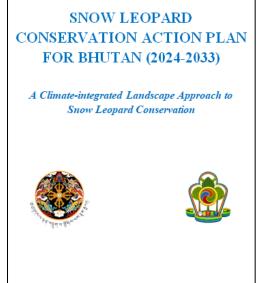


Progress:

- Nationwide Snow Leopard Survey-I (2015-2016) 96 individuals
- Snow leopard Conservation Action Plan for Bhutan (2018-2023) prepared with 8 objectives, 19 outputs, 54 actions under 3 targets.







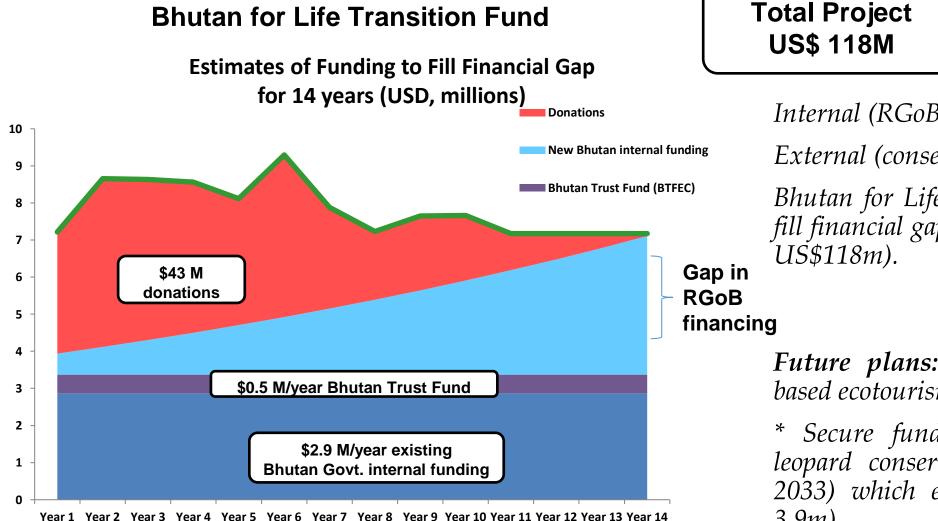
NATURE CONSERVATION DIVISION Department of Forests and Park Services Ministry of Energy and Natural Resources

Status:

- 45 action achieved (83.33%) and 9 were not achieved (16.67%).
- Estimated budget BTN 255 million (USD 3.2 million)
- Implemented almost 80% of the action plan
- Funding gap of over 30% of total cost



Resource mobilization





Internal (RGoB)-63%

External (conservation project)-37%

Bhutan for Life - estimates of funding to fill financial gap for 14 years (Total Project

Future plans: * *Enhancing community* based ecotourism.

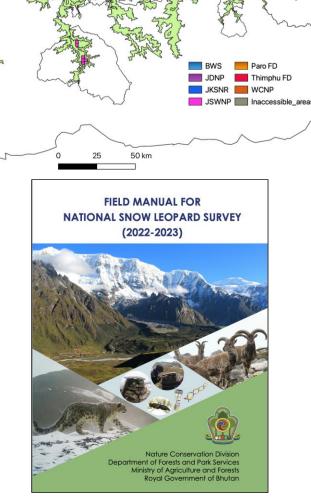
Secure fund to implement 2nd snow leopard conservation action plan (2024-2033) which estimate BTN 300m (US\$ 3.9*m*)

Threats to Snow Leopards, their Ecosystems, and Local Livelihoods

- *Climate change: global threat to ecosystems & human communities*
- Human-wildlife Conflict: livestock depredation
- *Habitat degradation:* shifts in vegetation, shrubs overtaking, alpine habitat shrinks, grazing competition, NWFP collection.
- Disease & feral dogs: transmission of diseases
- **Proposed strategy:** Snow leopard Conservation Action Plan for Bhutan 2024-2033 this will be achieved through strategic actions grouped under 4 objectives, 10 strategies and 53 actions with fund estimate of BTN 300m (3.9 US\$).

Snow Leopard Population Survey-II

- NSLS-II (2022-2023)-Updated status of snow leopards through camera trapping based on PAWS protocols.
 - ✓ *Current population*
 - ✓ *Distribution pattern*
- Spatial coverage: ~10,000 km² in the potential snow leopard habitats of JKSNR, JDNP, WCNP, BWS, JSWNP, Paro and Thimphu Forest Division (3600m – 5090m).
- 310 grids of 2x2 km grid, 620 camera traps from Aug till Dec 2022, by 90 rangers with fund of US\$ 0.55m
- Snow leopard scats were also collected.



Snow Leopard population in Bhutan

Report: NSLS-II report launched on 16th September, 2023.

Estimated: 134 individuals (SD ± 706).

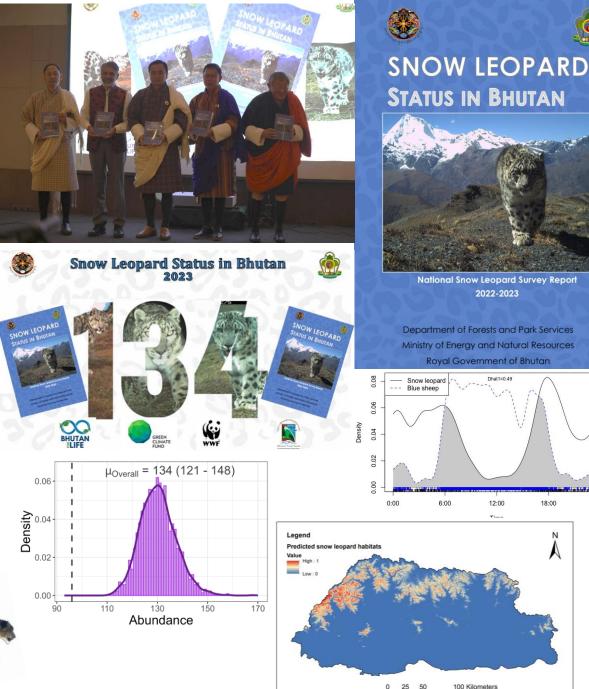
Density: 1.34 snow leopards per 100 km² $(SD \pm 0.071).$

Occupancy: 43.25% (SE±4.09)

This is an increase of snow leopard population in Bhutan by 39.5% from the baseline population of 2016 where 96 (SD \pm 8) individuals were estimated.

Activity patterns & capture history Snow leopard Habitat suitability





2022-2023

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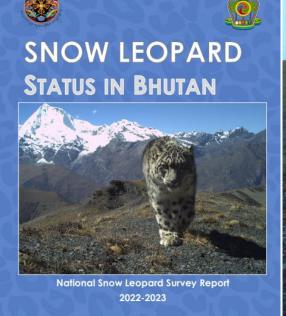
12:00

100 Kilometer

18:00

Inputs for the Report:

Dr Ian Durbach, Dr Koustubh Sharma, and Dr Justine Shanti *Alexander of the* PAWS initiatives under the GSLEP for their invaluable contribution in designing the survey and reviewing the report.



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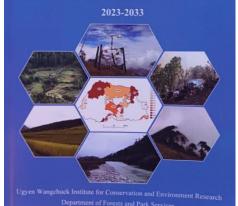
Climate Adaptations/Nature-based Solutions

- Climate Vulnerability & Capacity Analysis (CVCA) Report 2022.
- Bhutan adopted the Climate Change Policy of the Kingdom of Bhutan 2020.
- Climate adaptation for biodiversity & local communities:
 - SMART Green Infrastructure
 - Socio-economic resilience
 - Future resilience
 - Ecosystem services

Gaps and needs: Require additional resources to reduce knowledge gap and implement National Adaptation Plan



Protected Areas of Bhutan





A Climate-integrated Landscape Approach to Snow Leopard Conservation





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Green economy interventions

- Promoting ecotourism (trek routes, camping sites, mountain festival, farm house, capacity building)- Snowman Trek/Race.
- Sustainable resource management- High altitude medicinal and aromatic plants





Community-based conservation initiatives

Snow Leopard Conservation group in JDNP
Highland festivals for community engagement & ecosystem services.



Engaging local community in conserving snow leopards

Sangay Chezom, Paro Apr 18, 2019



Bhutan is one of the 12 countries in Asia that is home to snow leopards. However, due to human encroachment for poaching and retaliatory killings, the endangered big cats are losing their habitat.

To address the issue, Jigme Dorji National Park (JDNP) for the first time in the country has involved a community in Paro towards conserving snow leopards.

The villagers of Yagsa community under Tshento Gewog lose 17 yaks on average to snow leopards every year. The village with 26 households has around 1,500 yaks.

In the past, frustrated yak herders set traps and try to harm snow leopards. This is not the case now.

Today, with the Snow Leopard Conservation

and the community is

engaged more towards conserving the animal.

"We get to take the meat

and also Nu 3,000 as compensation. People are calm and they take the pictures of death yak and send it to the group," Kencho Dorji, the Secretary

Group in place, locals are

compensated for their loss



of Snow Leopard Conservation Group, said.





"These new tents will help us use less fuelwood. They can be easily assembled and dismantled, and are quite convenient to carry when we move between mountain pastures. They have a bigger space and smoke ventilation, so now we have adequate room for our family and belongings. It is less smoky inside and healthier for us overall."

Sherab Zam, Yaksa Herder



BHUTAN

CONSERVATION

Jigme Dorji National Park lies in the northwestern part of Bhutan, sharing a border with the Tibetan Autonomous Region of China. The park protects an area of 4316 sq. km, and supports a rich biodiversity. It was in JDNP where tigers were first recorded above 4000 meters, sharing habitat with snow leopards. Here snow leopards frequently prey upon young yaks, leading local herders to view the cats as pests that need to be eliminated. Working collaboratively with our partners and local communities, the Conservancy is focused on projects aimed at the benefits of having snow leopards present with the communities being the primary drivers of conservation. Activities underway include community-based snow leopard monitoring and improvement of livestock





- Community Rangers as Citizen Scientists Group in JKSNR
- Conservation Partner initiative with Royal Bhutan Army in Haa
- Friends of Nature Local Nature Guide
- Women Snow leopard Conservation Group in Paro
- Quick Response Team in all Snow leopard range areas

ro Forest Divisio

untain ghost called Nuberi, located in remotest village under Tsento in Par he Divisional Forest Office, Paro has initiated and successfully completed the women snow leopard conservation group with the fund support from Bhuta n of the group is to get women's support, encouragement, participation and



Promoting the use of Renewable Energy in Yak rearing areas Posted on May 1, 2014

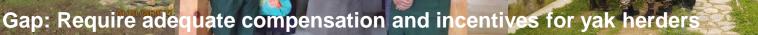
20 April, Soe and Soeyaksa: With smiles on their faces Soe and Soeyaksa yak rearing farmers' return home with a small carton box to hand over to the rest of their famil of the members opens the box and a small lantern with wire attached surprise finds accessories. It is a portable solar lantern with one small panel and a wire jack with a multiple head for charging the mobile phones, A Solar Lantern

According to a farmer, 'This is a huge support for us. We move from place to place with the yaks and this solar lantern will help us better care for the vaks and also churn milk at night in our tents and sheds, besides other obvious











Management & monitoring of disease systems

- Bhutan One Health Strategy: A multi-sectoral approach to protecting the health of humans & animals.
- Wildlife Health Strategy Surveillance of disease outbreak.
- Quick Response Team Monitoring and management of disease outbreak in livestock & wildlife.
- Initiated "Nationwide Accelerated Dog Population Management and Rabies Control Programme".
- Nationwide vaccination for Lumpy skin diseases.
- Gaps: Limited technical capacity and resources





Disrupting illegal wildlife trade in the country

- Record no cases on poaching and illegal trade of snow leopard.
- Records indicate merely three instances of retaliatory killing of snow leopards, likely due to the absence of a compensation scheme.

Measures:

- Strengthening protection & Law enforcement:
- SMART Patrolling rolled out at national level.
- FNCA 2023 (Chapter 5: 87, 91) Listed under Schedule I
- FNCRR 2023 (Offence & Penalty)





Royal Government of Bhutan Ministry of Energy and Natural Resources Department of Forests and Park Services



বহুগ্বশীরণাশ্বর্ত্তগ্রহমেন্দেরিওর্ব্বশ্বস্থান্যতনেষ্ট্রিক্ষা ২০৭৭ তর্জা FOREST AND NATURE CONSERVATION ACT OF BHUTAN 2023



Managing Infrastructure initiatives in snow leopard landscape

- No major infrastructure development/project implemented in Snow leopard landscape.
- No motorable roads inside snow leopard landscape.
- All major developmental activities in Bhutan are require environmental clearance, forestry clearance, EIA, ESSG and EMP.

Trans-boundary initiatives

- Snow leopard is a flagship species in the Kanchenjunga Landscape Conservation and Development Initiative Program of ICIMOD.
- GSLEP: It aims to conserve snow leopards and their ecosystems which outlines strategies for conservation, research, and community engagement -12 range.
- Regional cooperation are essential for the long-term conservation of snow leopards and their habitats-population dispersal.

• Love to see trans-boundary conservation work happening within the snow leopard range countries-potential for collaboration.

Continued partnership in our collective efforts to safeguard the snow leopard and its fragile ecosystems.

Together, we are making a tangible difference in the protection and conservation of these iconic species and their habitats.

Aims to ensure long-term viability of snow leopards while fostering harmonious coexistence with local communities.



Few cameratrap images from NSLS-II



Kadrinchey!

We express our deep gratitude to the Government of Uzbekistan for their warmth and hospitality.

Thank You!



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