

Stephane Ostrowski

WCS Temperate Asia Region





Founded in **1895** 



Conserves habitat for ~50% of Earth's biodiversity



350+
protected areas WCS helped create since our founding



WCS works in **50** + countries



**4,000** + scientists, conservationists, animal experts, and other dedicated staff



400+
peer-reviewed scientific
publications each year



205
Indigenous community partners



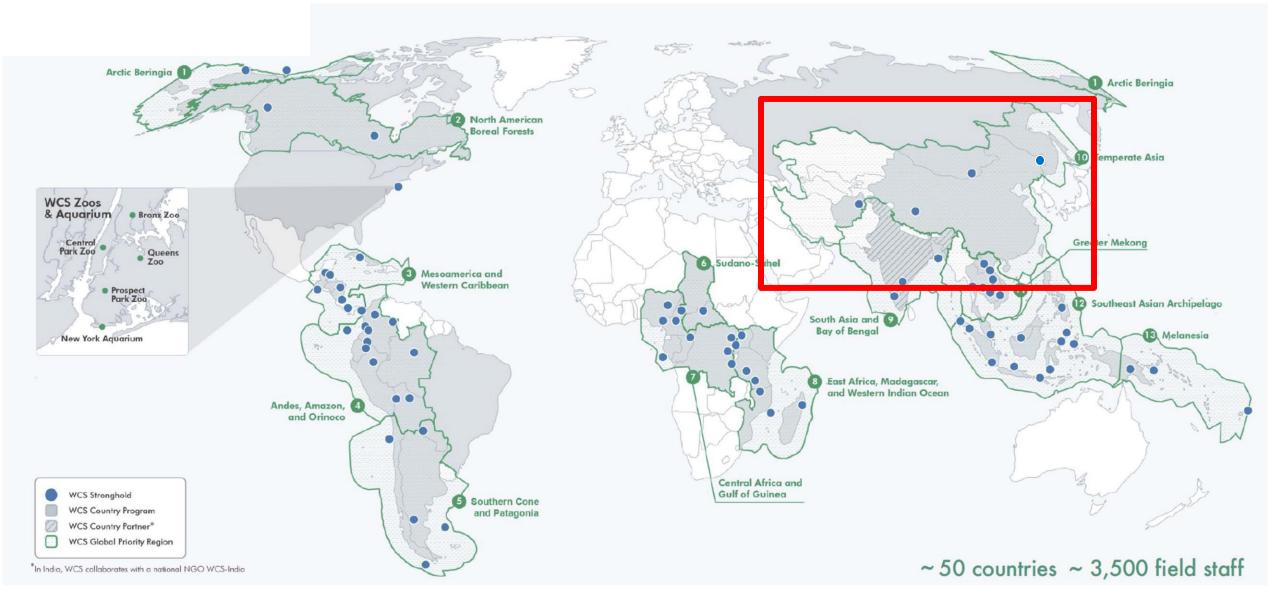
2,000+
local community partners



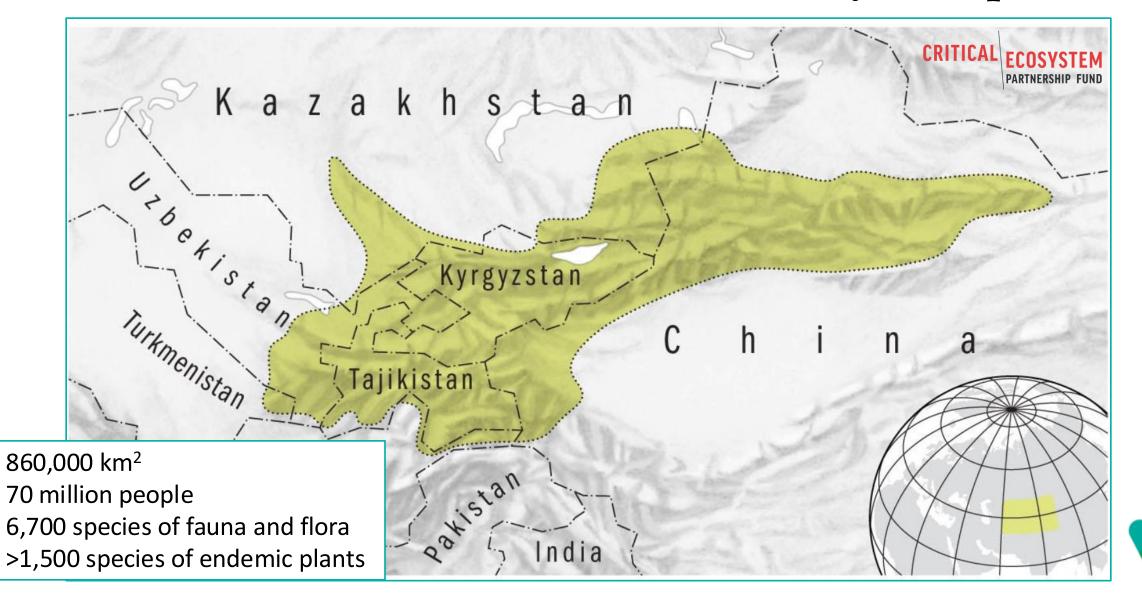
30X30

Partnering with governments, communities, and others to protect 30% of the planet by 2030

## Where we work



# Mountains of Central Asia Biodiversity Hotspot



# Threats on biodiversity in Central Asia

**OVERHARVESTING AND ILLEGAL TRADE**: wild ungulates, reptiles, birds, plants.

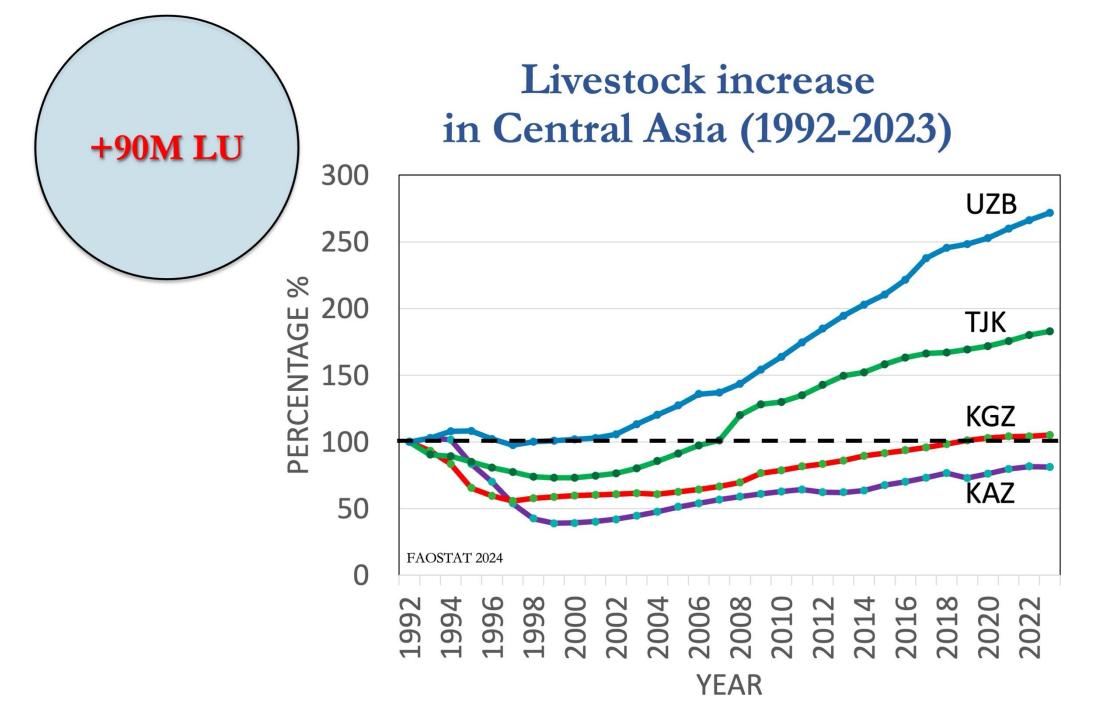
**INFRASTRUCTURE DEVELOPMENT AND EXTRACTIVE INDUSTRIES**: fences, roads, railways, powerlines.

**HUMAN-WILDLIFE CONFLICT:** Affects carnivores, scavengers, alien species or disease control.

**ANIMAL DISEASES**: mass die off events, spillage from domestic animals, increase risk of extinction.

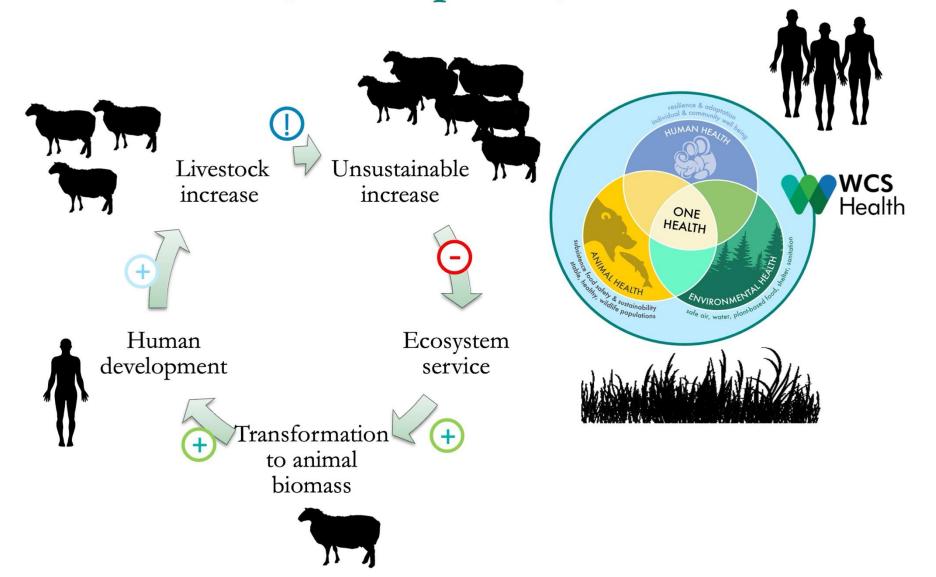
**CLIMATE CHANGE**: A multiplier on all other threats, glacier melting, water shortage, wildfires.







# Livestock, development, and One Health





## Constraints on One Health (OH) development in Central Asia









Capacity: Low attractiveness, trainer's gap, rigid systems, no curriculum in OH, no centralized formal training systems.

Policy, legislation, and governance: Existing legislation but lack of implementation.

Limited institutionalization of OH across health sectors. Governance to be strengthened.

Knowledge and awareness: Lack of solid cross-sectoral data sharing, no baseline, sometimes apathy or opposition between health agencies.

Motivation: Affects mainly public health sector, resulting from low salaries, indifferent management, erratic decision making, low transparency.

### Context

## Response

#### **Biodiversity:**

- May increase hazard of EID.
- May decrease the risk of zoonotic pathogen spillover.



#### **Biodiversity:**

- Target key biodiversity areas.
- Prioritize nature integrity.

#### **Economic development:**

 Environment and especially biodiversity conservation are seldom prioritized.



#### **Economic development:**

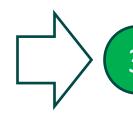
- Integrate conservation and development.
- Support alternative options.

#### **Health system governance:**

- Weak strategic policy framework.
- Ineffective oversight.

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Weak accountability.

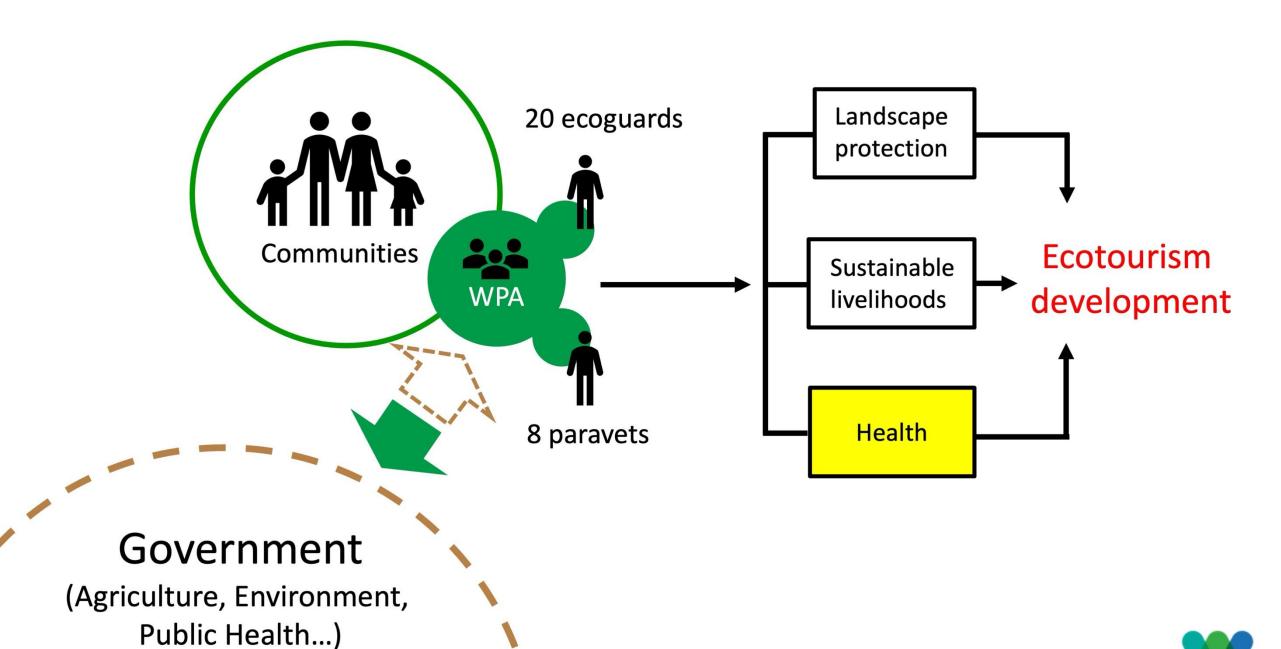


#### **Health system governance:**

- Work « bottom-up ».
- Support local governance systems.

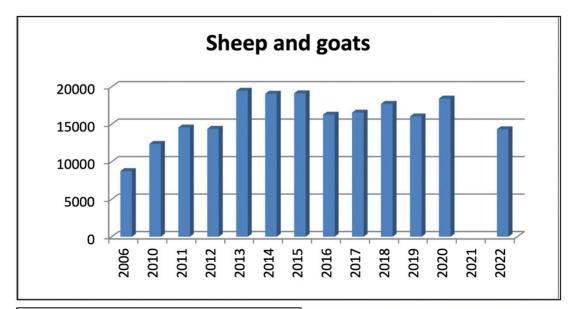


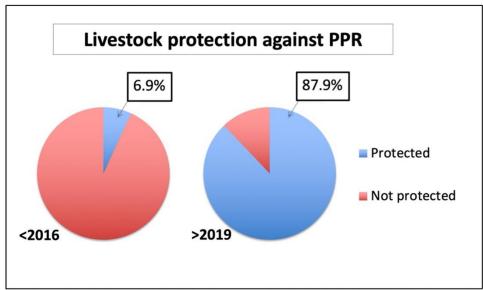


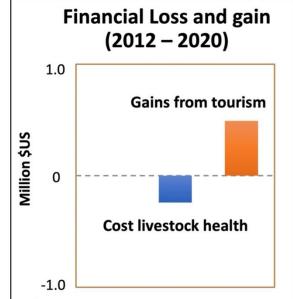


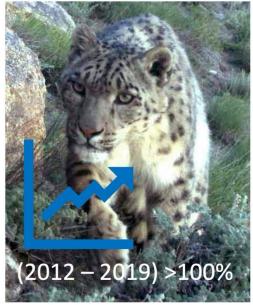


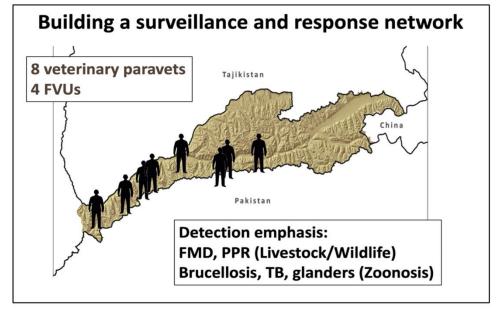
#### Main results:



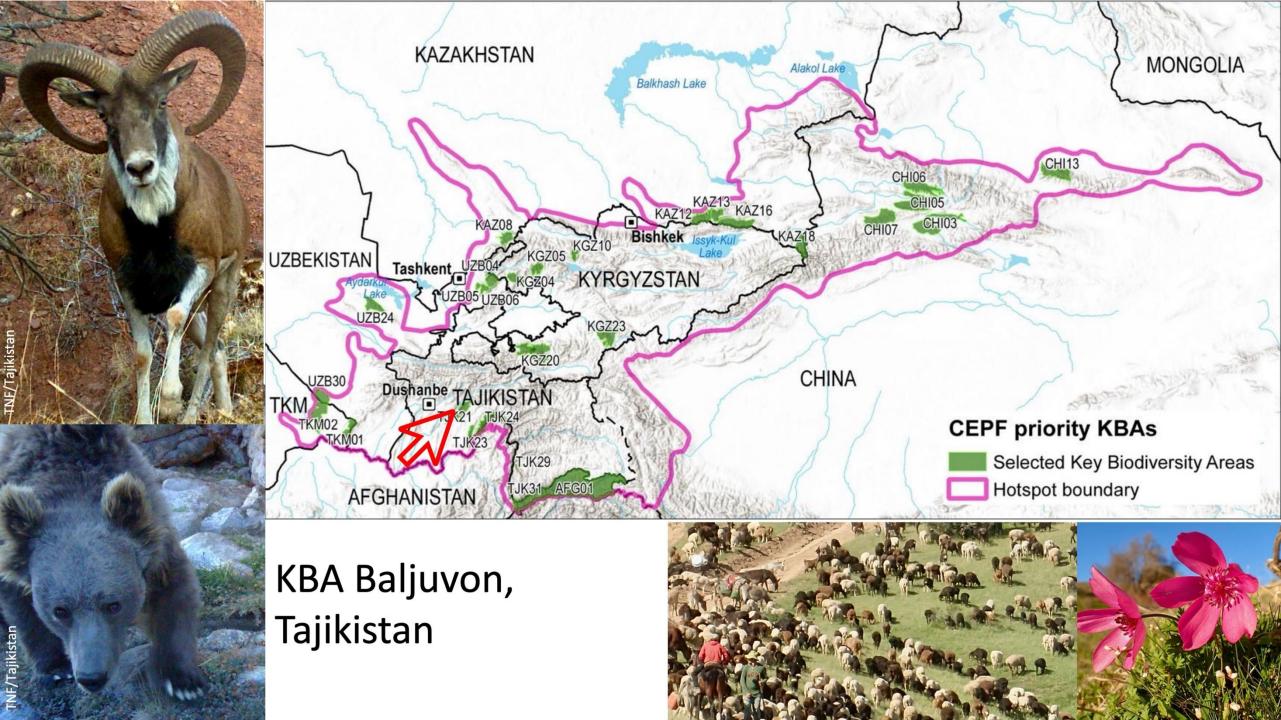


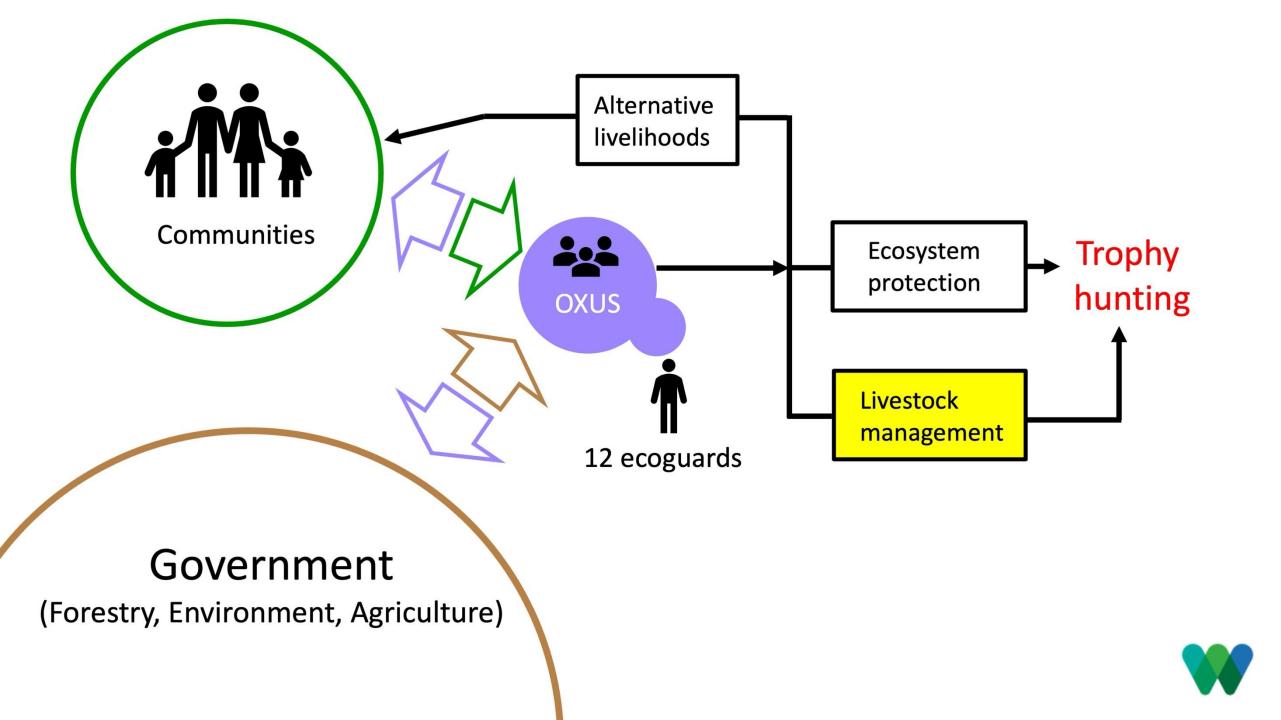




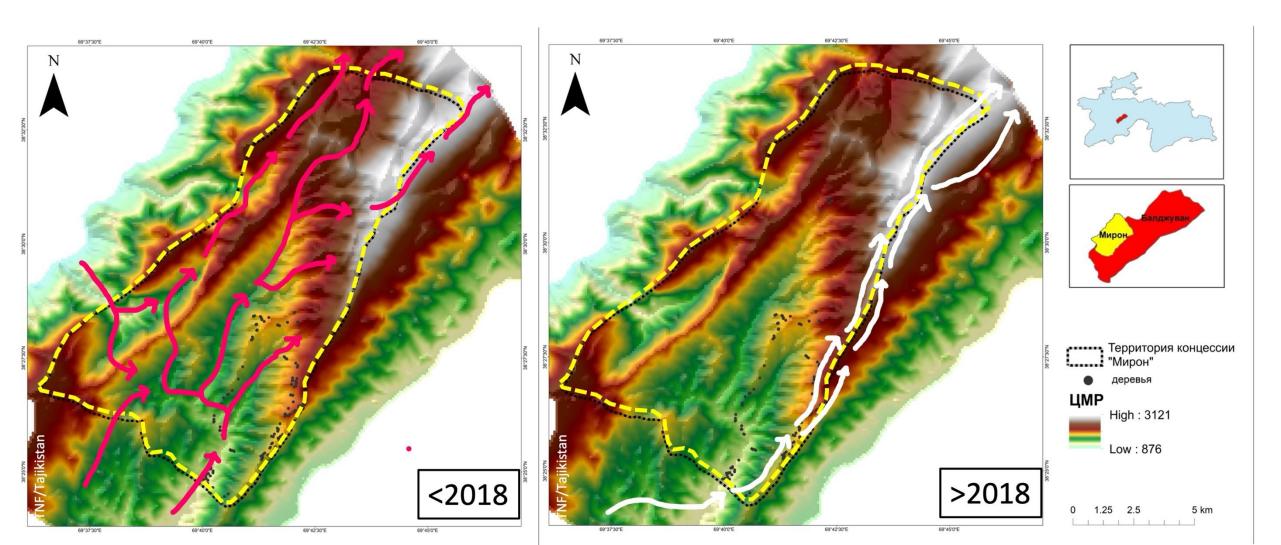




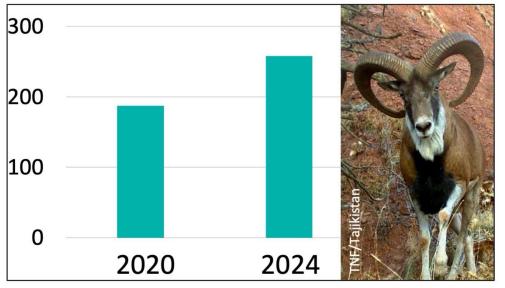




Main results: Livestock transhumance patterns modified rangeland restored + wildlife/livestock interface reduced reduced rangeland of livestock



## Main results















**Lessons learned from Central Asia:** 

Bottom-up approaches enable One Health action when the public institution is failing.

One Health actions become more effective when linked to positive socio-economic development for people.

By gaining visibility, the One Health approach supports biodiversity conservation actions.



# **Conclusion: What does success look like?**

When people in the most valuable natural areas proactively engage in REDUCING BIODIVERSITY LOSS, thereby directly or indirectly reducing the risk of the spread of pathogens.











ECOSYSTEM PARTNERSHIP FUND