



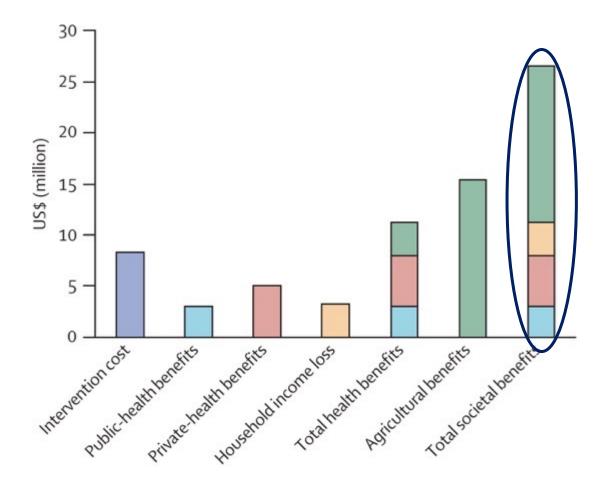
#### Opportunities and challenges for disease eradication

**Catherine Machalaba** 

Lessons learned from human and animal disease eradication programmes to help inform the peste des petits ruminants global eradication programme (PPR GEP) 21 February 2022

#### **Costs and Benefits to Different Sectors**

A societal perspective can broaden the value



Proposed Brucellosis vaccination scheme, Mongolia (Zinsstag et al. 2005, *The Lancet*) Sector

#### Resilience

FAO

Opportunities to reduce disease risk and burden on the way to eradication



PPR Global Control and Eradication Strategy (PPR GCES) Prevention

and the

Response

Detection

Recovery

**3** GOOD HEALTH AND WELL-BEING

1 NO POVERTY

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ZERO Hunger



5 GENDER EQUALITY

TO REDUCED INEQUALITIES

2 RESPONSIBLE CONSUMPTION AND PRODUCTION

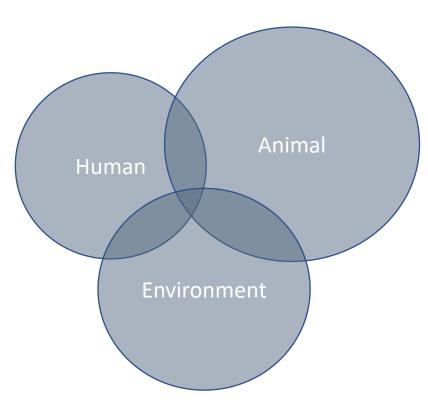
### **Context Matters!**

Multi-sectoral solutions needed

- Not everyone working together all the time....
- But strong human, animal and environmental health systems are needed to determine relevant sectors for a given objective, disease, or situation
- Determine appropriate stakeholders and entry points









#### Insights from Other Diseases



#### Pig virus turns beauty spot into ghost town

120 people killed and economy ruined in Malaysian village

eepy village in south-western Malaysia won an award for being the most beautiful state. Now Sungai Nipah is infamous as the birthplace of the Nipah virus, a deadly ch is transmitted from pigs to humans.

20 people died here and nearly 1m pigs were slaughtered in what was once the farming area of south-east Asia.

Sanjit Das for NPR

I live I will remember what happened here," says Lin To Moi, whose husband and led by the illness. "Outside this area, every time they eat pork they will remember four village."





#### নিপাহ রোগ বিষয়ে স্বাস্থ্য বার্তা

নিশহ একটি মাইবাগমনির বেলে, যা বান্ডুর তেকে মানুলে গরেনিক মার : এ বেচেকে রানান পালাগরানা হাসে- ম্যালায় মানাগলো, সিচুলি, রান্ডাশ করা, মারানা হওয়ালায় বেলে বেলে বেচের মালাগাঁ :

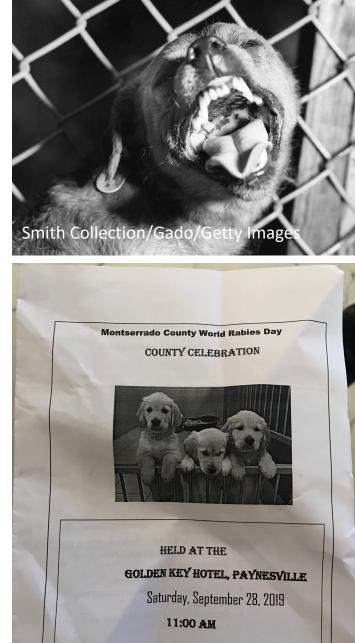
- দিশাহ বেগে প্রতিযোগে পর্বনাগরণকে নির্ভেগের নিয়াকটি অনুপর্বের গরামার্শ সেয়া হাজ-+ পেছরের বঁড়া রম পারেন না
- ৫ চেচন মহাসের অংশিক থাওয়া কল মাচেন না
- ফলমূল পরিষয়ে পানি নিয়ে মালে মারো ব্রুয়ে মালেন
  এলেইকে যার দ্রুত স্কার নির্ভাগ্নি সহায়ারি হাসপারালে
- মেহন কৰম ক আমাজ মেন্টাৰ সংস্পৰ্শে আসাৰ পৰ সাবাস ক
- न्दनि निरव हाक कुट्ड (कन्दुन )

🙈 হাছ্য শিক্ষা ব্যারো, হাছ্য অবিসগ্রর

🚔 যান্থ্য শিক্ষা ব্যুৱো, যান্থ্য আবদন্তর 🚟 যান্থ্য ও পরিবার কল্যাণ মন্ত্রণালয়

#### Rabies

- Sylvatic and canine cycles
- 95% of human deaths from dogs
- Several important milestones on the way to elimination/eradication
- Success requires sustained efforts in human and animal health systems
- Think about effects of messaging

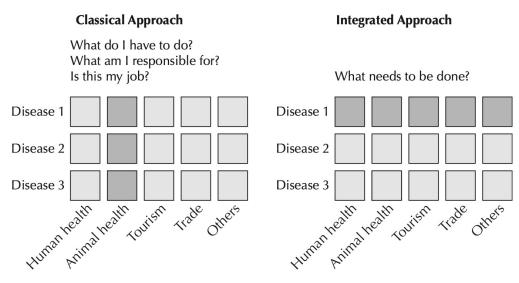


MC. ADOLPHUS KENTA, MONTSERRADO CHT

**EcoHealth Alliance** 

# Strengthening Systems

- Single-disease efforts do not automatically lead to multi-hazard preparedness
- The cycle of panic and neglect limits long-term system strengthening
- Coordination in public sector and effective partnerships can help bridge silos



World Bank 2010. People, Pathogens, and Our Planet.

#### Partnerships



- Reach key stakeholders
- Leverage resources
- Expand information, expertise and solutions
- Work together to tackle needs of communities



#### We Under-Invest in Our Best Assets



- Incentivize contributions to strong and resilient systems
- Ensure vibrant career opportunities
- Promote context-specific approaches
- Support long-term engagement with communities for overall awareness and animal husbandry

#### Uncertainty

- Establishment (and impact) in other species
- Climate and weather effects
- Human and animal migration
- Trade patterns
- Other priorities or disruptions (e.g. COVID-19)

Ensure systems are prepared to adapt as needed





# Key messages

- Technological solutions are necessary but insufficient alone
- Context-specific approaches are essential
- Resources, expertise, and engagement can be leveraged from diverse sources
- Need to invest in systems and workforce
- External factors and other priorities mean success may take many forms

