



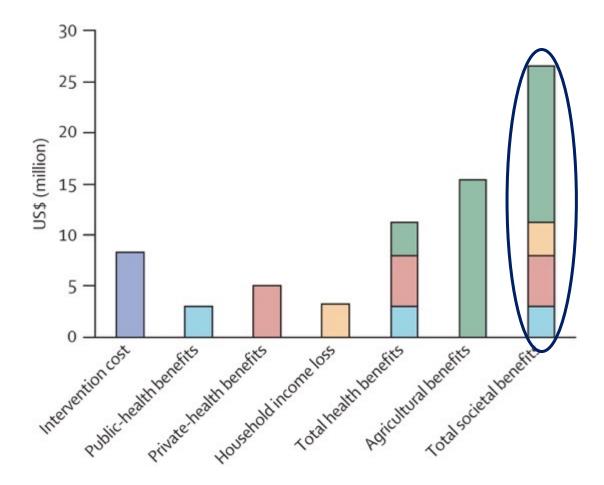
Opportunities and challenges for disease eradication

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

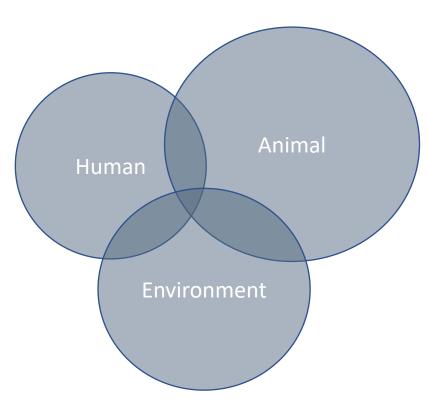
Context Matters!

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 :

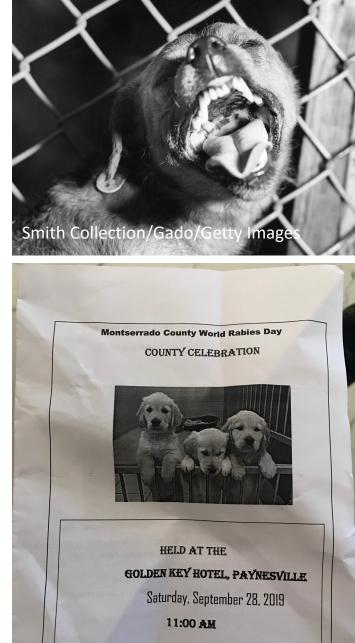
- দিশাহ বেগে প্রতিযোগে পর্বনাগরণকে নির্ভেগের নিয়াকটি অনুপর্বের গরামার্শ সেয়া হাজ-+ পেছরের বঁড়া রম পারেন না
- ৫ চেচন মহাসের অংশিক থাওয়া কল মাচেন না
- ফলমূল পরিষয়ে পানি নিয়ে মালে মারো ব্রুয়ে মালেন
 এলেইকে যার দ্রুত স্কার নির্ভাগ্নি সহায়ারি হাসপারালে
- মেহন কৰম ক আমাজ মেন্টাৰ সংস্পৰ্শে আসাৰ পৰ সাবাস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

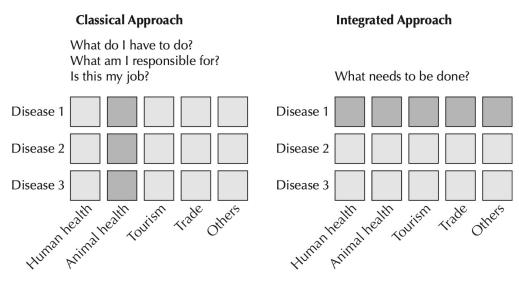


MC. ADOLPHUS KENTA, MONTSERRADO CHT

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

