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THE IMPACT OF THE DOG MEAT TRADE ON RABIES CONTROL STRATEGIES

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Head of Stray Animal Care Southeast Asia

Jakarta, 06.12.2024



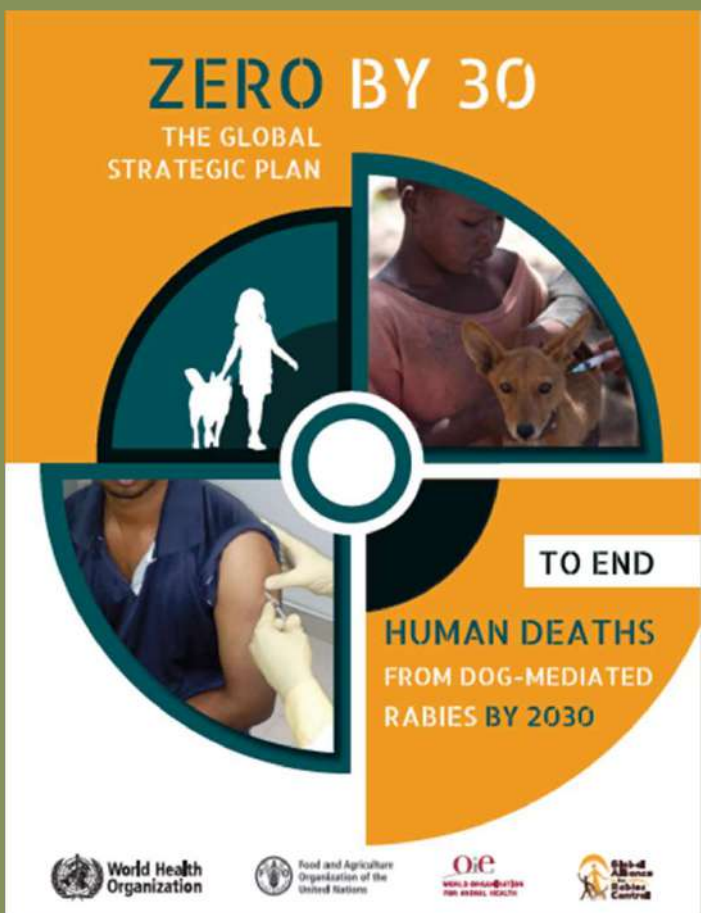
MAIN TOPICS

- Zero by 30
- Dog Population Dynamics
- Country Examples
- World Rabies Day
- Dog and Cat Meat Trade
- Surveillance Data
- Lack of Reporting
- Humane and Sustainable DCPM
- Rabies Resources
- Hope for the Future





ZERO BY 30 GLOBAL STRATEGIC PLAN

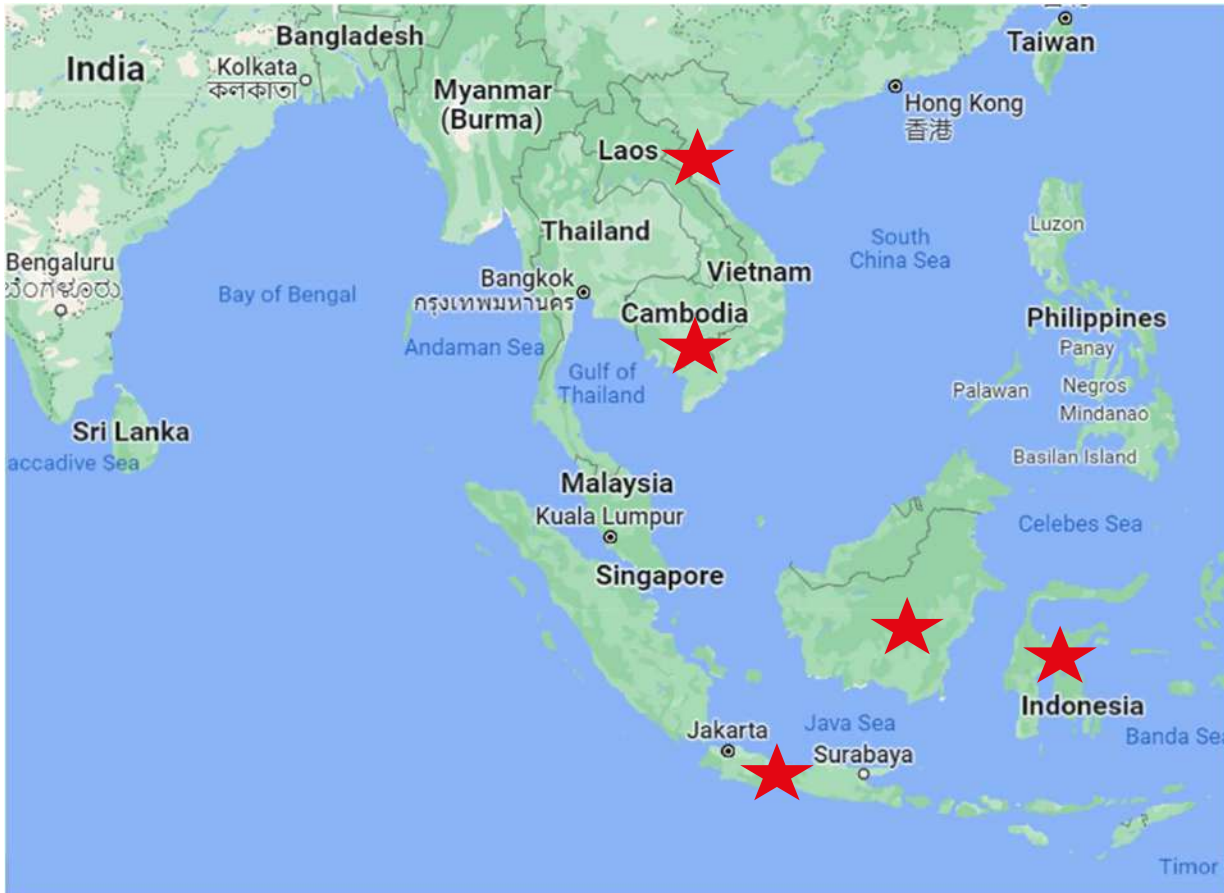


- The Zero by 30 strategy is the global plan to eliminate dog-mediated human rabies deaths by 2030.
- Rabies - 100% fatal if untreated; responsible for ~59,000 deaths per year, mostly in vulnerable and marginalised communities.
- Rabies elimination requires multi-stakeholder collaboration under the One Health framework.
- Aligns with UN Sustainable Development Goal 3.3





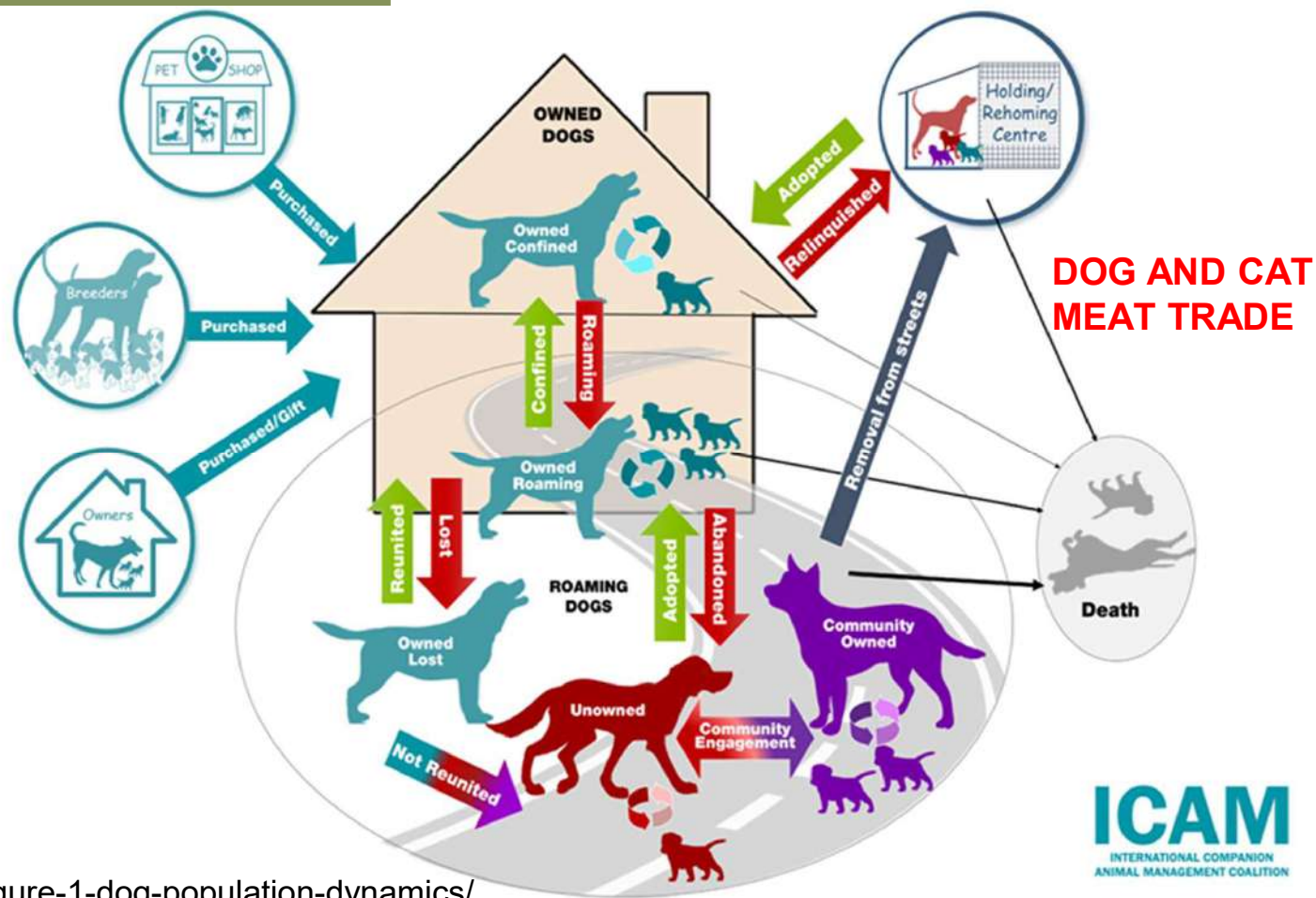
SOUTHEAST ASIA DCMT



- CAMBODIA ~3 MILLION DOGS PER YEAR
- INDONESIA ~1 MILLION DOGS PER YEAR
- VIETNAM ~ 5 MILLION DOGS AND 1 MILLION CATS PER YEAR

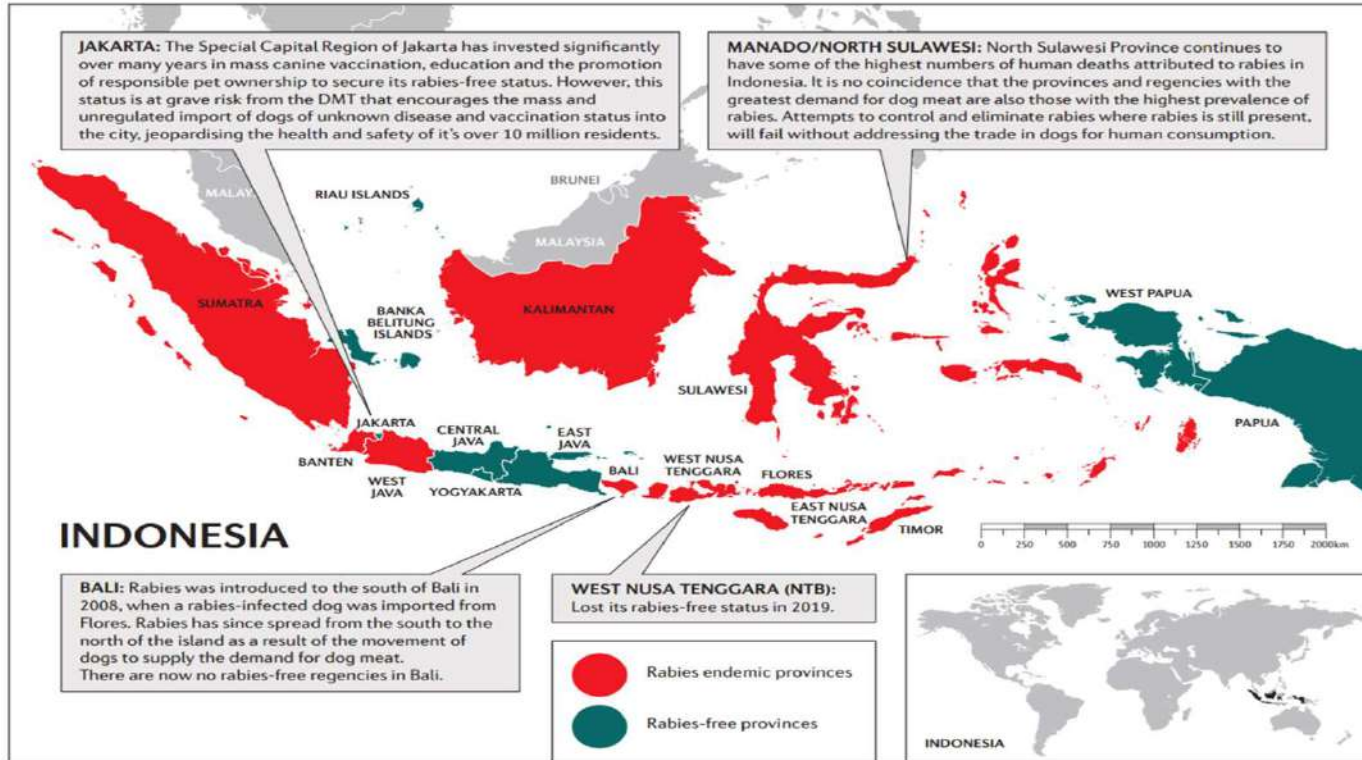
DOG POPULATION DYNAMICS

DOG POPULATION DYNAMICS





INDONESIA



“Between January 2024 and July 2024, publicly accessible data show that 71 Indonesians have died from rabies.

Among Indonesia’s 26 rabies-endemic provinces, East Nusa Tenggara (NTT) is the most affected, with 19 320 cases of potentially rabid animal bites in humans in 2023. This resulted in 35 rabies deaths.

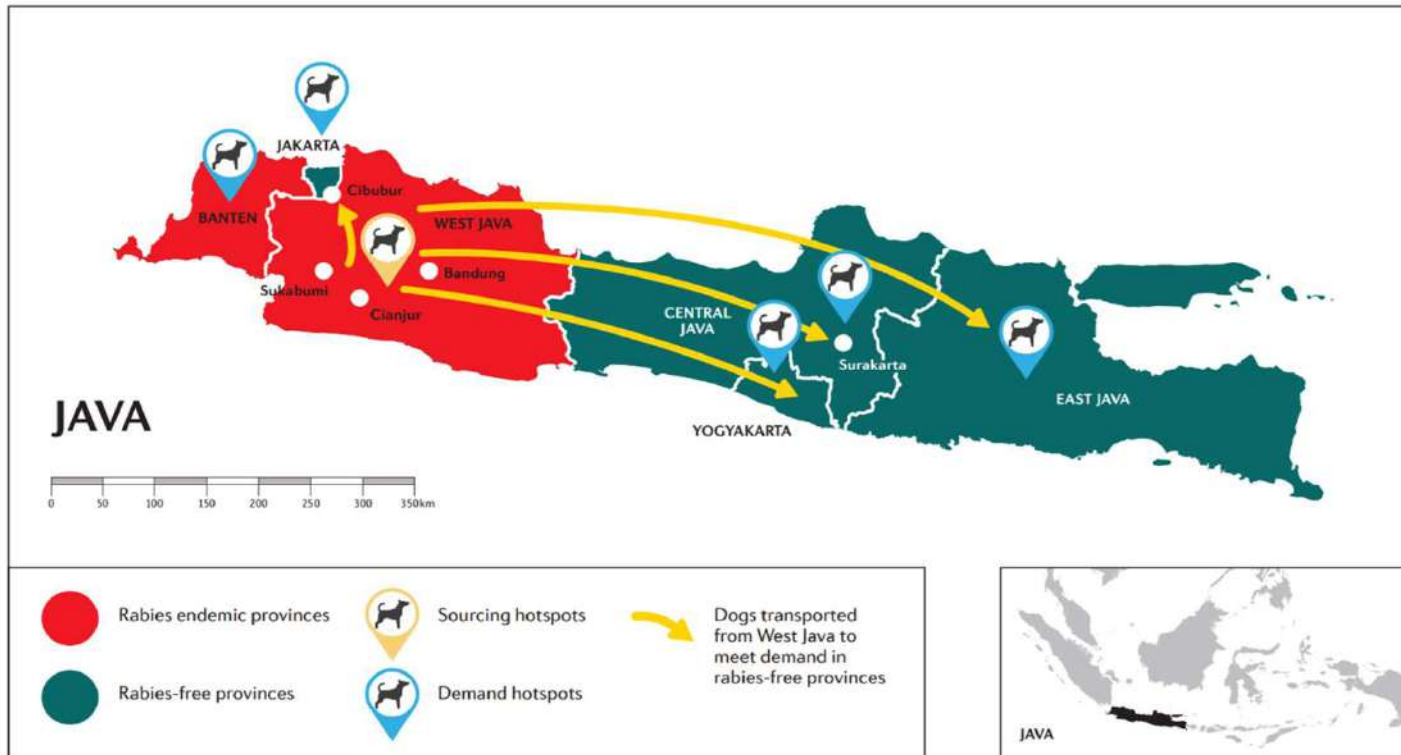
From January to July 2024, NTT reported 16 180 cases of potentially rabid animal bites and 27 rabies deaths.”

<https://dogcatmeat.four-paws.org/the-truth/publications-on-the-dog-and-cat-meat-trade-in-southeast-asia/>
<https://www.who.int/indonesia/news/detail/28-09-2024-prevent-every-rabies-death--who-and-fao-highlight-need-for-urgent--comprehensive-action-on-world-rabies-day-2024#:~:text=Between%20January%202024%20and%20July,resulted%20in%2035%20rabies%20deaths.>

https://media.4-paws.org/8/0/0/3/80039a8956751c7b9bf934c35993858592182db3/FOURPAWS_Big_DCMT_Report_GB.pdf



INDONESIA



Banyuwangi. Police in the East Java regency of Banyuwangi raided a dog shelter on Saturday, arresting two men for further interrogation and uncovering a facility that sold dog meat.

During the raid, police found at least 64 dogs, allegedly taken from Bali's Kintamani area, held at the shelter. Preliminary investigations revealed that the dogs were destined to be sold for their meat in the Central Java town of Solo, Edi said.

<https://jakartaglobe.id/news/banyuwangi-police-raid-illegal-dog-farm-with-supplies-from-bali>

<https://dogcatmeat.four-paws.org/the-truth/publications-on-the-dog-and-cat-meat-trade-in-southeast-asia>

https://media.4-paws.org/8/0/0/3/80039a8956751c7b9bf934c35993858592182db3/FOURPAWS_Big_DCMT_Report_GB.pdf



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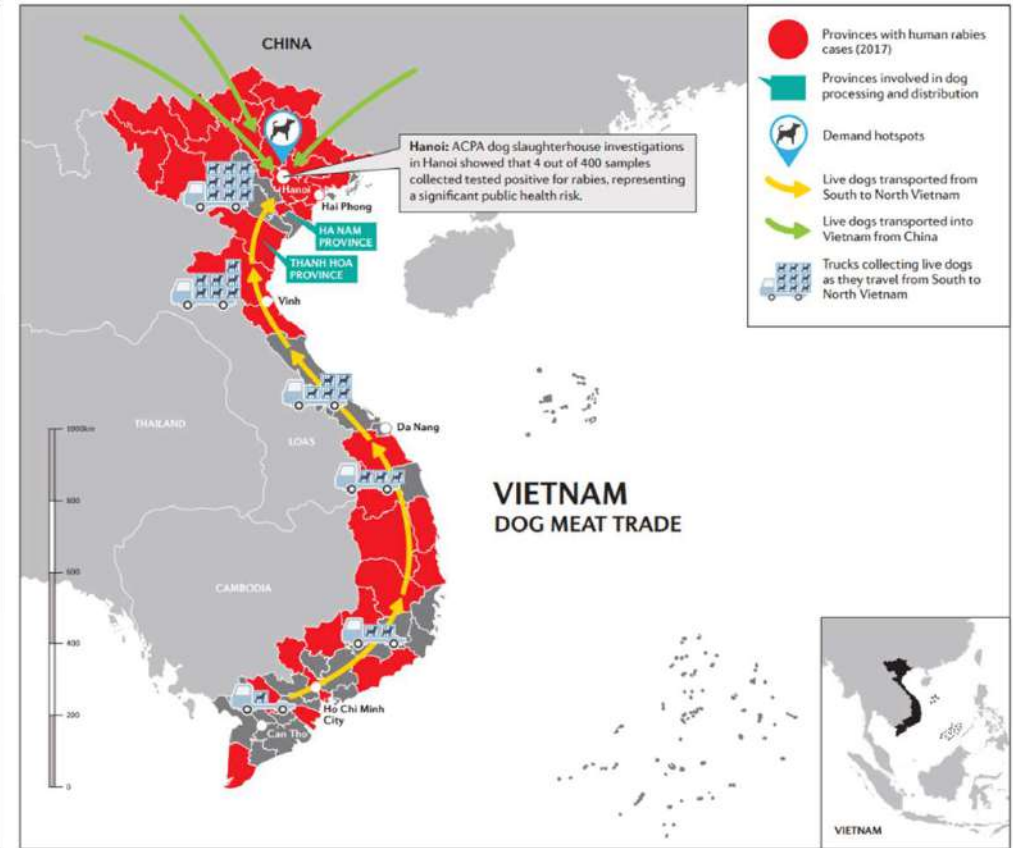
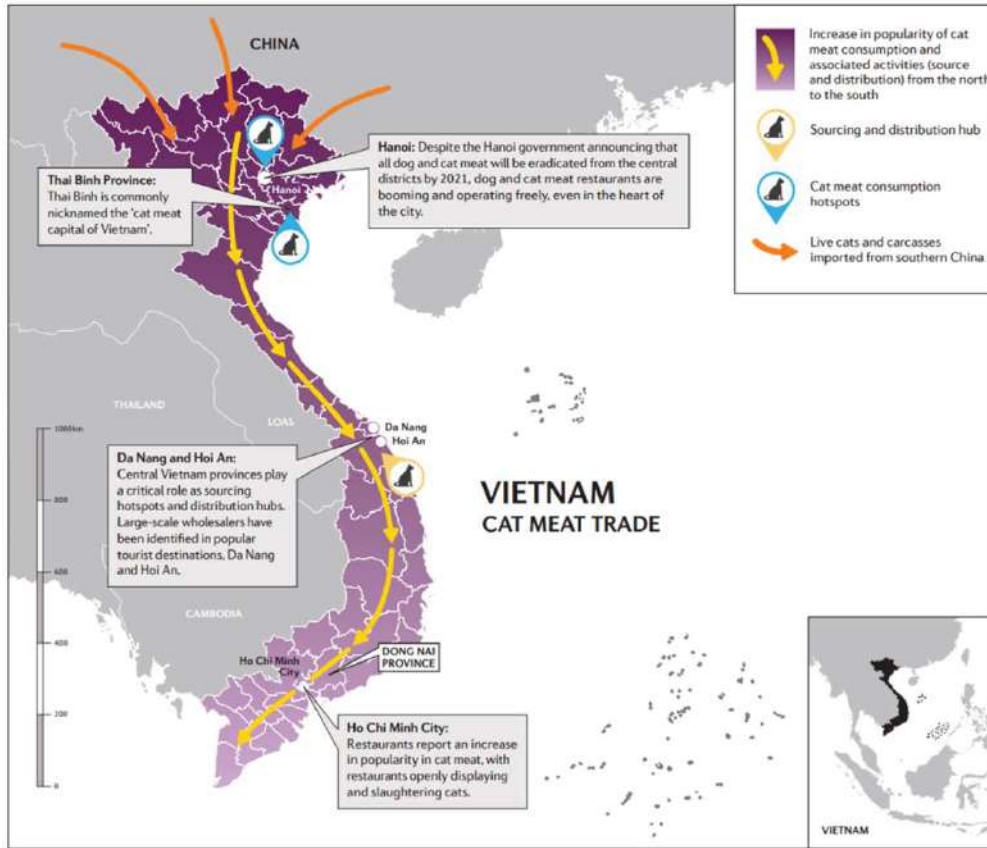


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VIETNAM

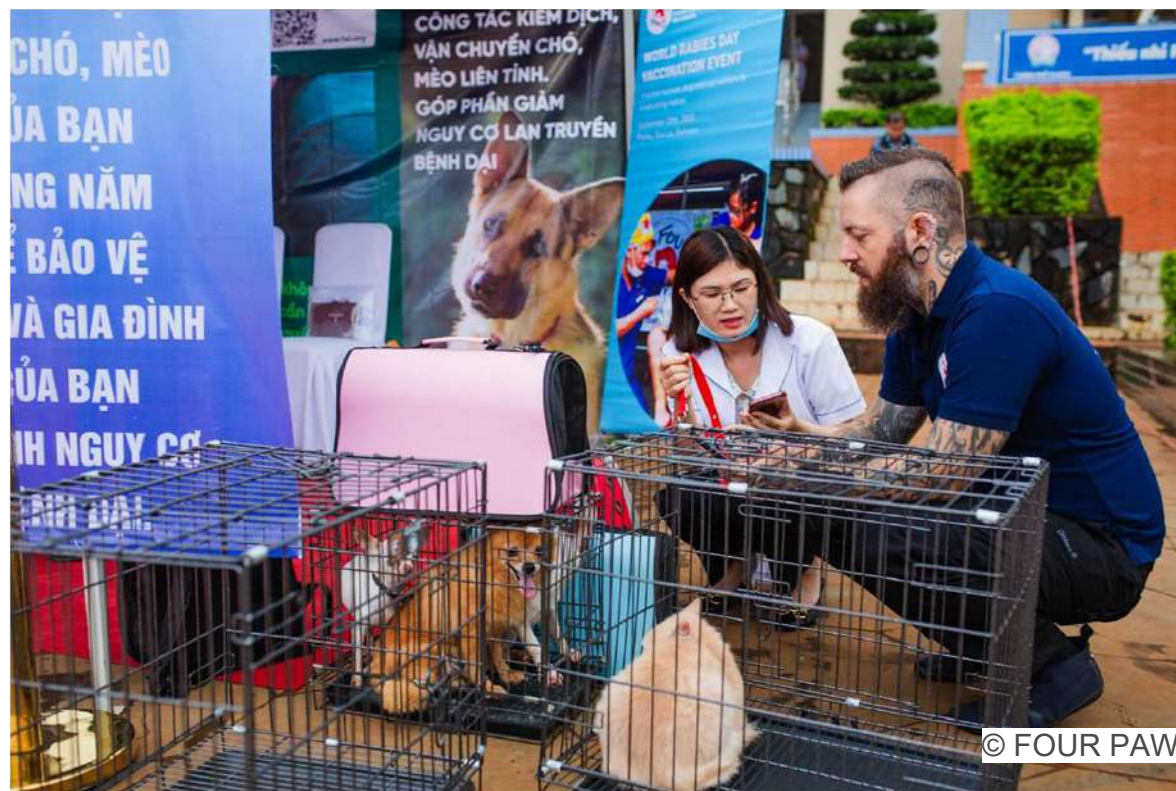


Spike in rabies-related deaths prompts urgent response from the Ministry of Health

(VAN) There has been a noticeable increase in rabies cases since the beginning of 2024; 22 deaths have resulted from the disease, which is twice as many as in 2023 (10 cases).



The [Ministry of Health](#) demands local governments to implement various measures for the prevention and control of rabies. Photo: *GI*.



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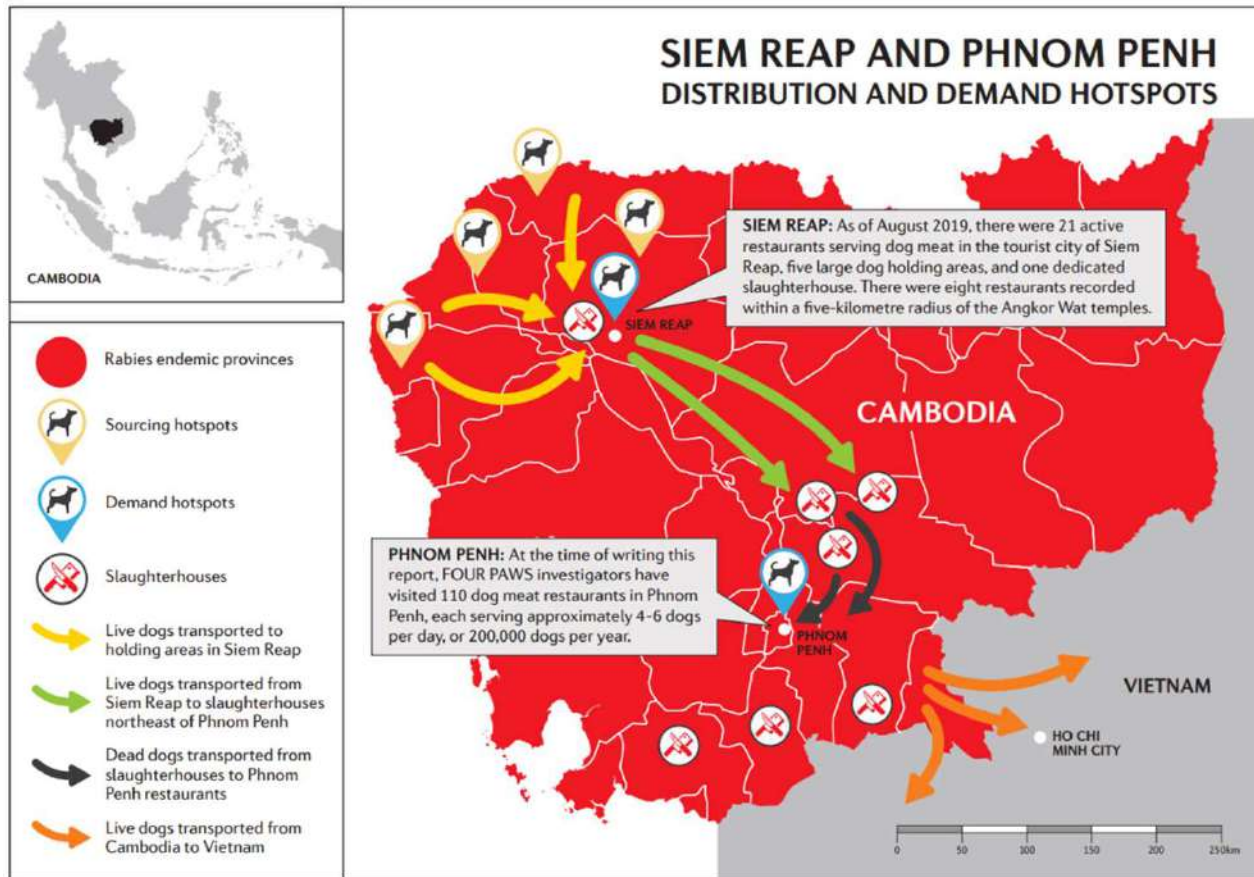
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CAMBODIA



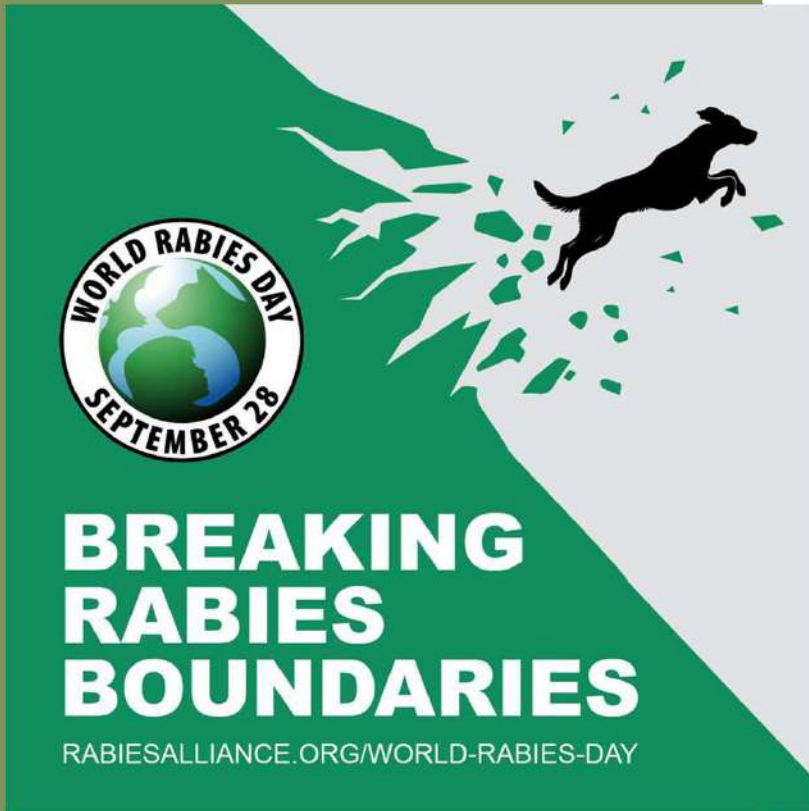


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WORLD RABIES DAY 2024



- Breaking disease siloes
- Lack of One Health collaboration
- Insufficient cooperation
- Lack of innovation
- Small-scale programs
- Disease awareness



<https://rabiesalliance.org/news/world-rabies-day-theme-2024-here>

DOG AND CAT MEAT TRADE



- Vietnam (Ba Vi): 30% of rabid cases (2007 outbreak) related to exposure during dog slaughter (Hampson, 2009⁴).
- Hanoi: 2 reported deaths involved slaughtering rabid dogs 2022 (Ling et al., 2023⁵).
- Rabies-positive dogs found in restaurants, slaughterhouses, and markets across China, Vietnam and Indonesia – up to 20% of dogs testing +ve.
- Pasteur Institute in Cambodia - Nearly 50% of tested dogs rabies-positive.
- Even 1% prevalence is significant – 1% of 5 million = 50,000 rabid animals moving through the country in close contact with people.

OPEN ACCESS Freely available online

PLOS BIOLOGY

Transmission Dynamics and Prospects for the Elimination of Canine Rabies

Katie Hampson^{1,2*}, Jonathan Dushoff³, Sarah Cleaveland^{4,5}, Daniel T Haydon⁵, Magai Kaare⁶, Craig Packer⁷, Andy Dobson¹

Rabies in Southeast Asia: a systematic review of its incidence, risk factors and mortality

Miaw Yn Jane Ling,¹ Ahmad Farid Nazmi Abdul Halim,¹ Dzulfitee Ahmad,¹ Nurfatehar Ramly,¹ Mohd Rohaizat Hassan,^{1,2} Syed Sharizman Syed Abdul Rahim,³ Mohammad Saffree Jeffree,³ Azizan Omar,³ Aizuddin Hidrus³





RABIES & DCMT

ASEAN Rabies Consultation Meeting Revision of the ASEAN Rabies Elimination Strategy 2-4 May 2023, Bali Indonesia

'Potential role of the trade in dogs and cats for meat'

Major challenges cited for Cambodia / Vietnam / Indonesia:

- Budget / resources
- Inadequate data
- Community awareness
- Hard to vaccinate dogs in rural areas
- Limited collaboration between stakeholders

DCMT is not mentioned

https://rr-asia.woah.org/wp-content/uploads/2023/05/005_rabies-situation-in-ams_2-4-may-bali.pdf
https://rr-asia.woah.org/wp-content/uploads/2023/05/vietnam_poster_asean-rabies_final.pdf
https://rr-asia.woah.org/wp-content/uploads/2023/05/cambodia_ares_may_workshop_poster.pdf
https://rr-asia.woah.org/wp-content/uploads/2023/05/indonesia-ares_may_workshop_poster_.pdf





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SURVEILLANCE DATA



Eliminating invisible deaths: the woeful state of global rabies data and its impact on progress towards 2030 sustainable development goals for neglected tropical diseases

Catherine Swedberg^{1*}, Katrin Bote², Luke Gamble³, Natael Fénelon⁴, Alasdair King⁵ and Ryan M. Wallace¹

- Limited capacity
- Resources
- Knowledge / skills
- Attitudes to compliance



³Swedberg et al. (2024)



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LACK OF REPORTING



- Poor and rural communities most affected
- Access to information
- Access to healthcare / PEP
- Lack of funds



[https://iris.who.int/bitstream/handle/10665/376979/](https://iris.who.int/bitstream/handle/10665/376979/WER9923-eng-fre.pdf)
WER9923-eng-fre.pdf



WOAH TERRESTRIAL ANIMAL HEALTH CODE



CHAPTER 7.7.

DOG POPULATION MANAGEMENT

Article 7.7.1.

Introduction

Dog Population Management (DPM) refers to the holistic approach that aims to improve the welfare of dogs, reduce problems they may present and create harmonious co-existence with people and their environment. Dogs are present in every human society around the world and are valued for the range of roles they fulfil. However, they can present public health and safety, and animal health and *animal welfare* issues, especially when free to roam.

DPM supports effective and sustainable rabies control programmes and the control of other zoonoses. Recognising that mass culling of dogs is ineffective and may be counterproductive, reducing dog population size is not an effective means of reducing rabies prevalence. However, DPM can contribute to rabies control by reducing population turnover, therefore supporting maintenance of herd immunity within a vaccinated dog population. The components of population turnover most relevant for rabies control are the reduction in the birth of puppies that would be at risk of remaining unvaccinated and the improvement of welfare and life expectancy of vaccinated dogs.

Reproduction control as part of DPM also reduces breeding behaviours which may increase the *risk* of rabies transmission due to increased contact rates between dogs.

Promotion of *responsible dog ownership* as part of DPM strengthens owner motivation, knowledge and therefore behaviour in caring for their dogs, including timely rabies vaccination of owned dogs to maintain immunity.

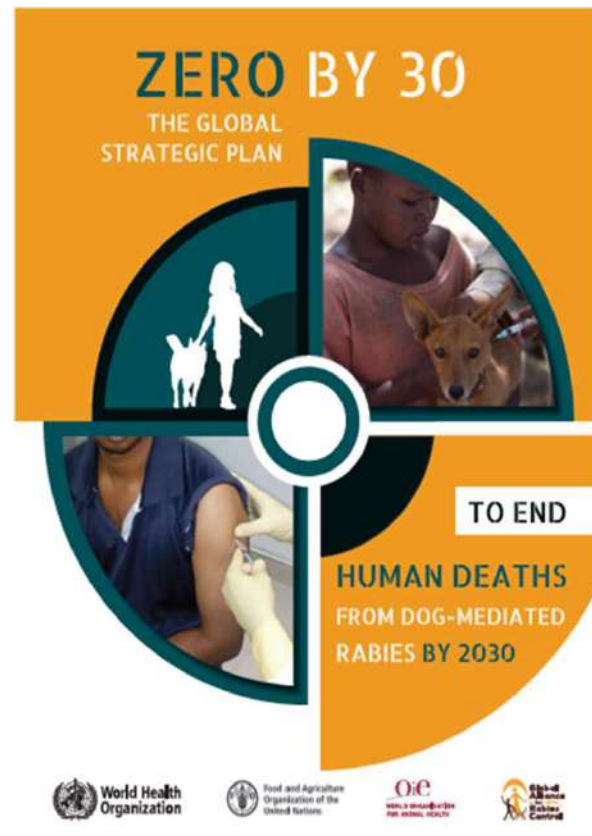
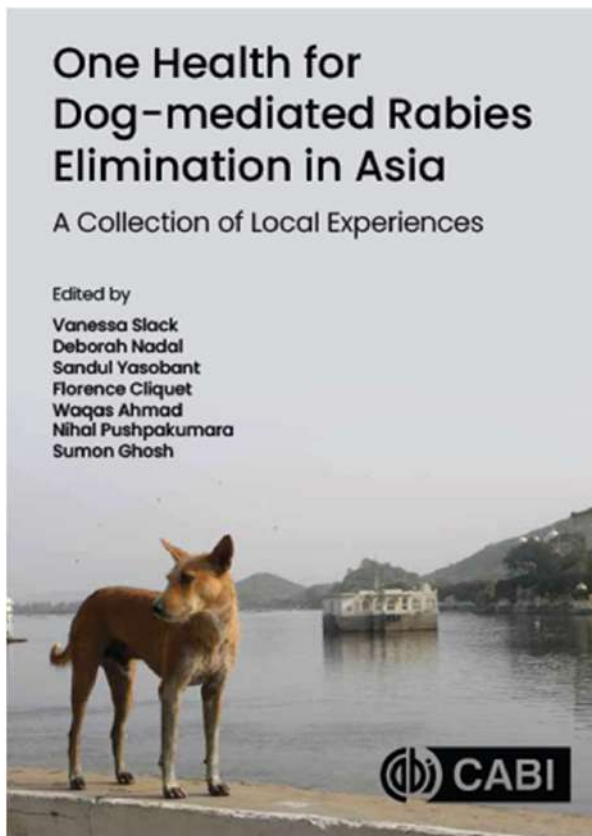
“Understanding local dog population dynamics and community attitudes is a key element in determining whether and how DPM programmes might contribute to rabies control and which tools would be most successful”





Case Study - Bali

RABIES RESOURCES





RABIES RESOURCES



<https://www.unitedagainstrabies.org/news/rabies-today-podcast/#:~:text=Description,experts%20from%20around%20the%20world.>

HOPE FOR THE FUTURE



**BỆNH ĐẠI CỐ THỂ GÂY CHẾT NGƯỜI
NUÔI CHÓ, MÈO PHẢI TIÊM PHÒNG BỆNH ĐẠI
CỐ VÀ MÈO LÀ BẠN, KHÔNG PHẢI THỨC ĂN
HỘI AN - THÀNH PHỐ KHÔNG THỊT CHÓ MÈO**

#ProtectMillions
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REFERENCES

1. **Swedberg C, Bote K, Gamble L, Fénelon N, Wallace RM.** Eliminating Invisible Deaths: The woeful state of global rabies data and its impact on progress towards the 2030 Sustainable Development Goals for Neglected Tropical Diseases. *Frontiers in Tropical Diseases*. 2024 [accessed 2024 Jun 12];5. <https://www.frontiersin.org/journals/tropical-diseases/articles/10.3389/fitd.2024.1303359/full>. doi:10.3389/fitd.2024.1303359
2. **Hampson K, Dushoff J, Cleaveland S, Haydon DT, Kaare M, Packer C, Dobson A.** Transmission Dynamics and Prospects for the Elimination of Canine Rabies. *PLOS Biology*. 2009;7(3):e1000053. doi:10.1371/journal.pbio.1000053
3. **Jane Ling MY, Halim AFNA, Ahmad D, Ramly N, Hassan MR, Syed Abdul Rahim SS, Saffree Jeffree M, Omar A, Hidrus A.** Rabies in Southeast Asia: a systematic review of its incidence, risk factors and mortality. *BMJ Open*. 2023;13(5):e066587. doi:10.1136/bmjopen-2022-06658



THANK YOU FOR YOUR ATTENTION!

FOUR PAWS is the global animal welfare organisation for animals under direct human influence, which reveals suffering, rescues animals in need and protects them. Founded in 1988 in Vienna by Heli Dugler and friends, the organisation advocates for a world where humans treat animals with respect, empathy and understanding. The sustainable campaigns and projects of FOUR PAWS focus on companion animals including stray dogs and cats, farm animals and wild animals – such as bears, big cats and orangutans – kept in inappropriate conditions as well as in disaster and conflict zones. With offices in Australia, Austria, Belgium, Bulgaria, France, Germany, Kosovo, the Netherlands, Switzerland, South Africa, Thailand, Ukraine, the UK, the USA and Vietnam as well as sanctuaries for rescued animals in eleven countries, FOUR PAWS provides rapid help and long-term solutions.

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