



# Tripartite Webinar on Rabies:

**All for 1, One Health for All in the Asia Pacific Region**

## Rabies outbreak in Kerala, India

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TRIPARTITE COLLABORATION



Food and Agriculture  
Organization of the  
United Nations



World Health  
Organization



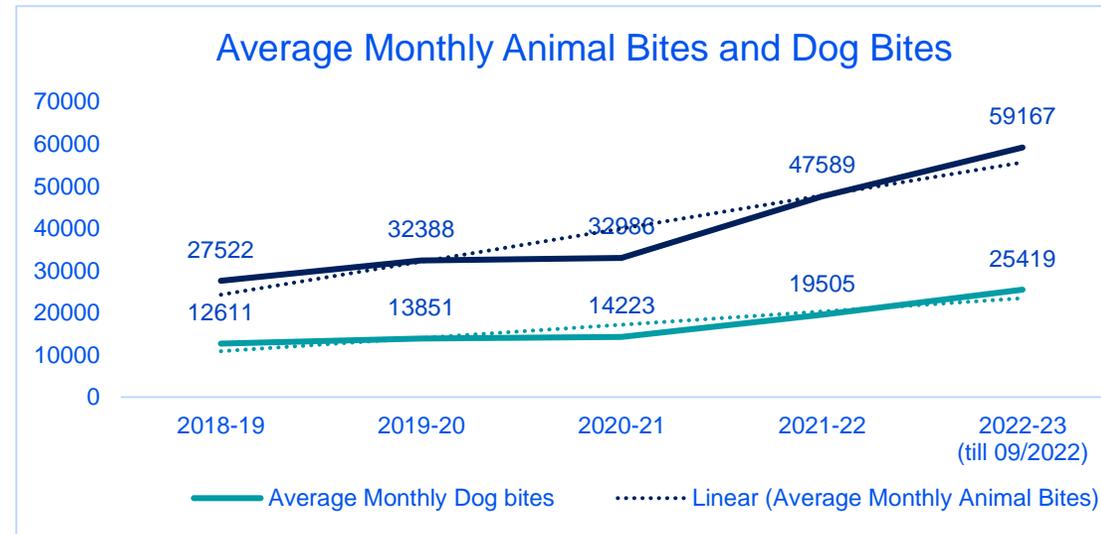
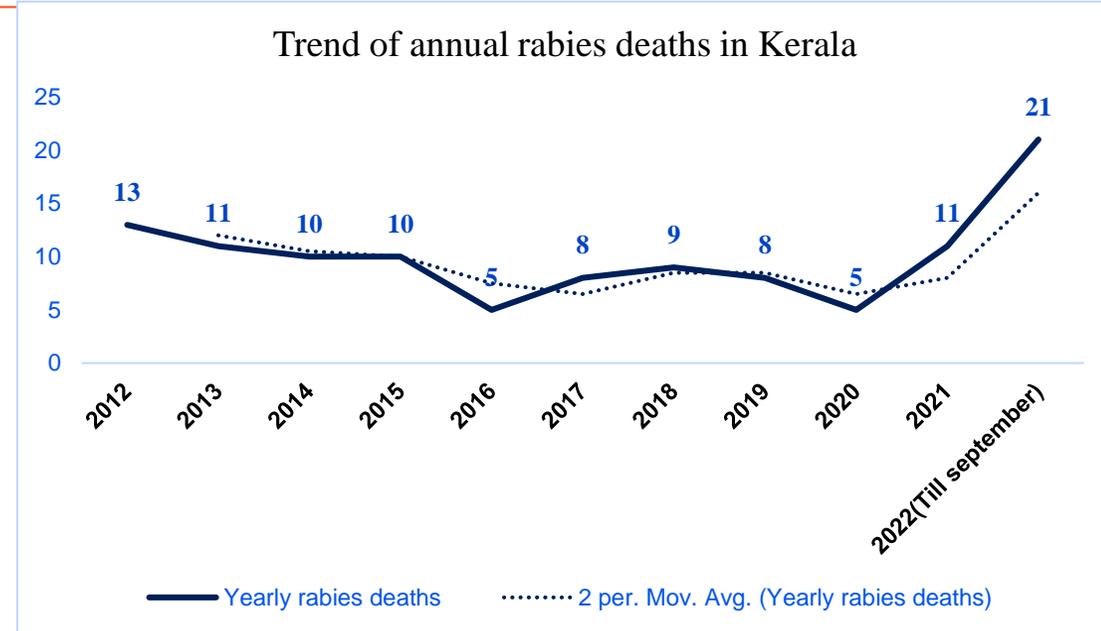
World Organisation  
for Animal Health  
Founded as OIE





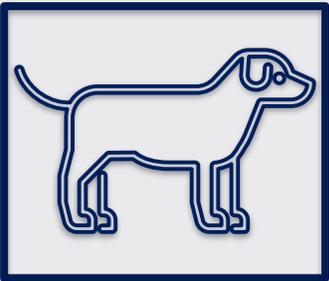
# The context –Sep 2022, Kerala

- 21 human deaths till Sep 2022
- 6 had received Post Exposure Prophylaxis
- Increase in stray dog attacks
- Availability of Vaccines
- Quality of Vaccines
- Dog population management
- Expert Committee
  - Review of Records & Audit
  - Field Visits
  - Quality of PEP
  - Institutional readiness
  - Vaccine storage & Cold Chain

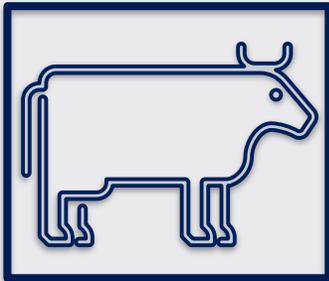




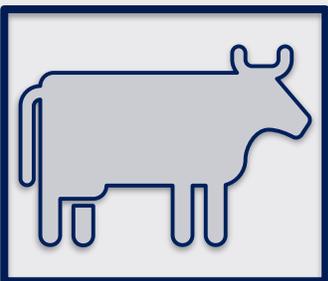
# Lab confirmed Rabies case in Animals (Jan'22 to Dec'22)



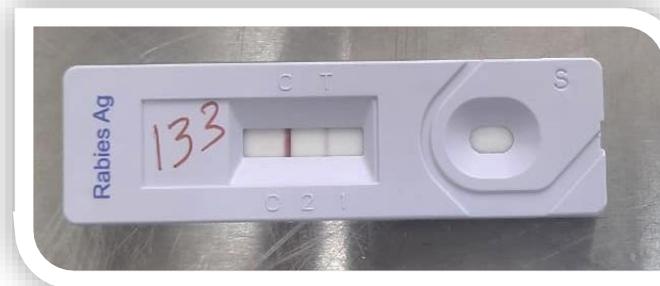
340 in Dogs



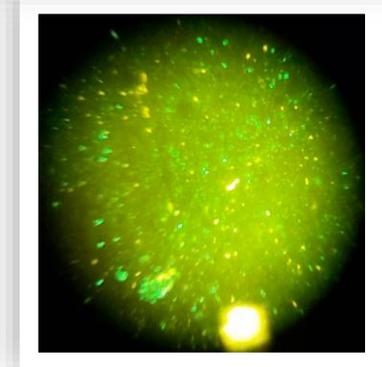
14 in Cow



3 Buffaloes



LFA

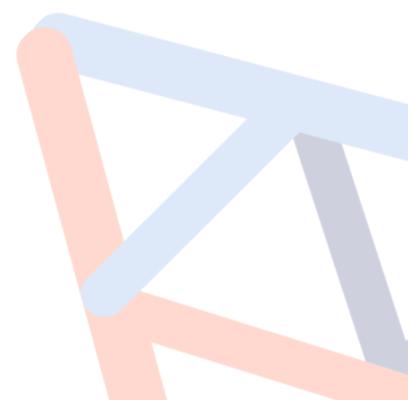


DFA



# Key Observations, Challenges & Experiences

- Increased animal population, increased animal exposure, increased prevalence of rabies among animals contributed to higher incidence of human rabies
  - Animal bites / dog bites were ignored in majority of deaths – No PEP
  - Awareness and practices about adequate wound management is low
  - Vaccine quality was not compromised
  - Vaccine Efficacy and techniques was adequate
  - Wound washing facilities were inadequate in many facilities
  - Deaths in spite of PEP observed in Cat 3 wounds in highly innervated areas
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- Media scrutiny
  - Difficulty to obtain focus on the majority of deaths who did not seek PEP
  - Indirect measurement of vaccine efficacy





# Way Forward

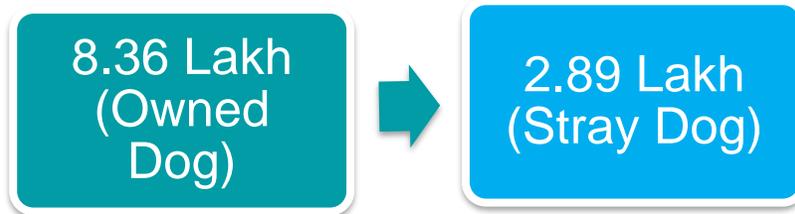
- Awareness generation about wound care & PEP
  - Institution readiness in form of wound washing facilities, trained staff & availability of immunologicals
  - Online surveillance tool
  - Rabies as a Notifiable disease
- 
- Pet dog vaccination and licensing
  - Mass Dog Vaccination campaigns
  - Animal Birth Control
  - Involvement of Local Self Government
  - Solid Waste Management
  - Operational Research
  - One Health Approach



# Vaccination Status (During ARV Campaign- Sept. 2023)

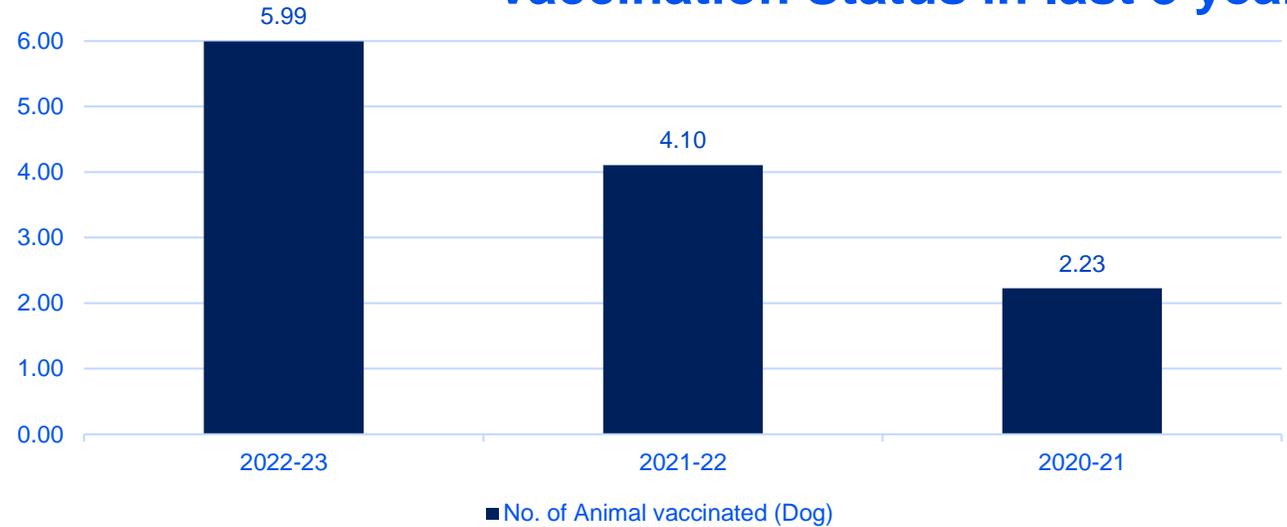


## Population as per 20<sup>th</sup> LC in 2019

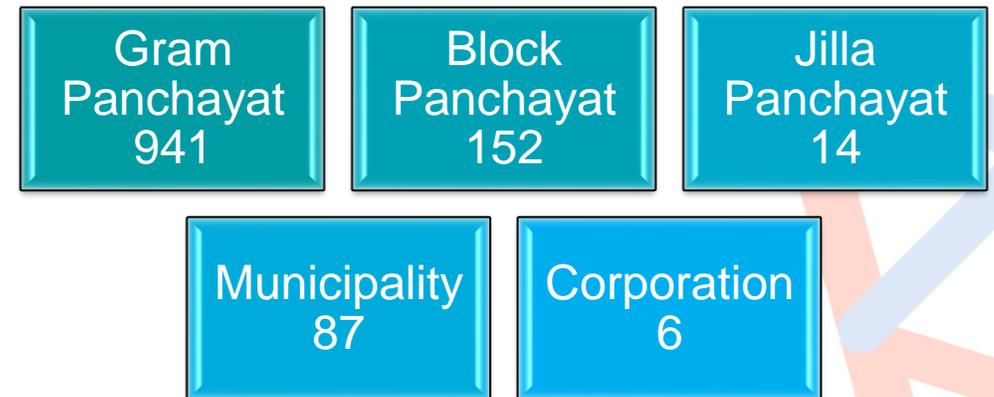


# MDV Programme

## Vaccination Status in last 3 year



## Local Bodies in Kerala





## ABC Program in State

2017 onwards by LSGD through Kudumbasree

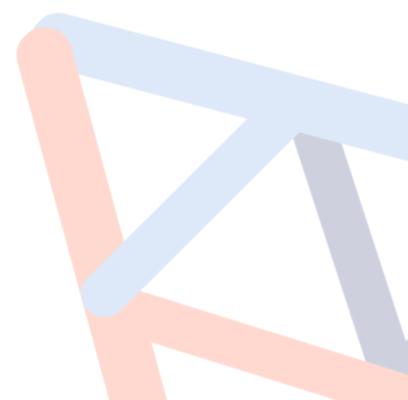
79,000 Sterilised stray dogs from 2017 to 2021.

## Successful Intervention

- CSR initiative of IIL
- Engaging the services CAWA
- AWO to do Rabies free Trivandrum by vaccinating stray dogs

## Awareness

- Awareness classes in schools (a especially below 15 age)
- Community centres, Posters and Pamphlets
- Flash mob performance some district





# Thank you!



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