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Global Alliance for Rabies Control  
and University of Pretoria,  
South Africa

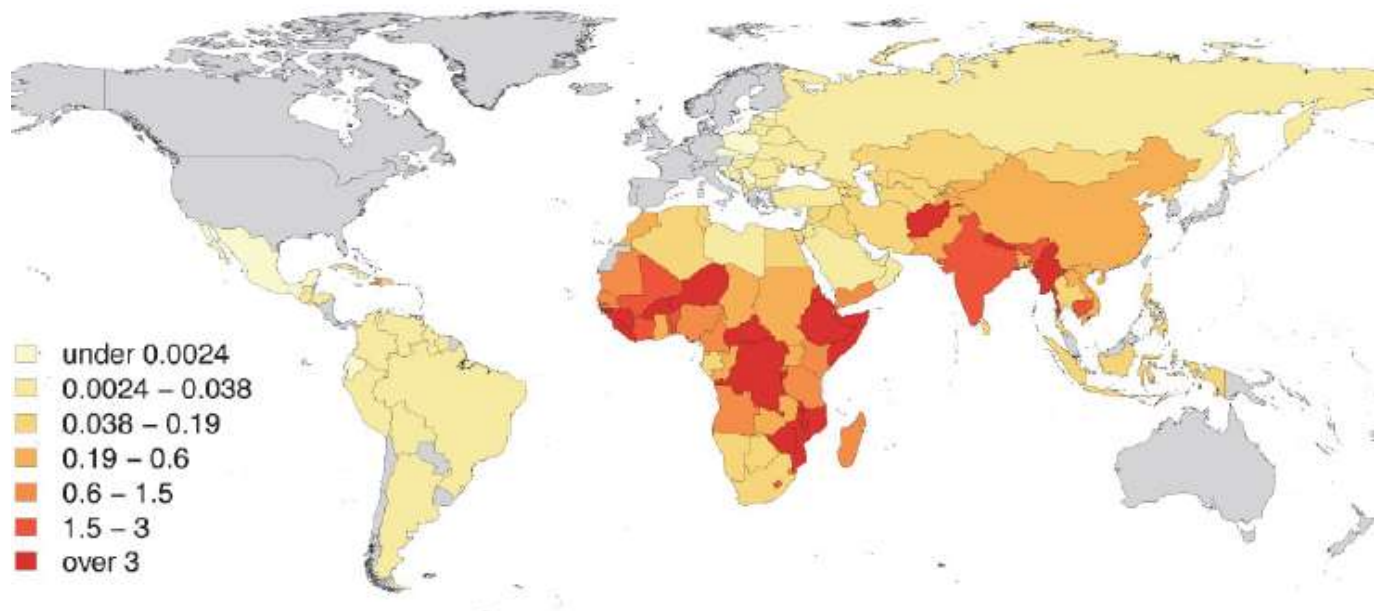


Workshop of **GARC** and **World Animal Protection (WAP)** for the **Pan-African Rabies Control Network (PARACON)** countries of **Benin, Cote d'Ivoire, Gabon, Ghana, Liberia, Nigeria** and **Sierra Leone**: Accra, Ghana 26-29 Nov 2019

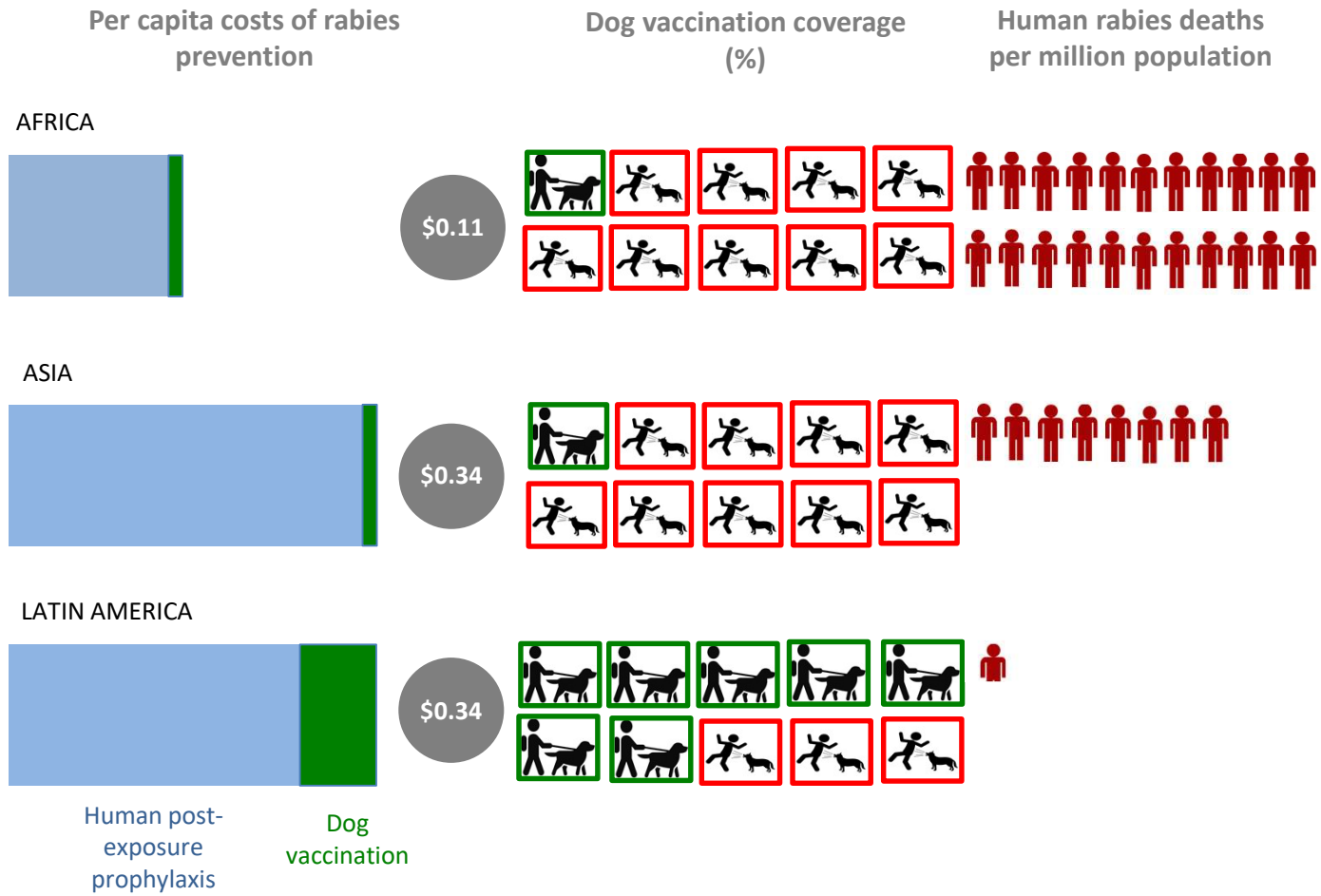
Key factors in the global rabies epidemic are undervaluation and chronic social and veterinary neglect of dogs.

Les principaux facteurs de l'épidémie mondiale de rage sont la sous-évaluation (manque de valeur économique) et la négligence chronique sociale et vétérinaire des chiens.

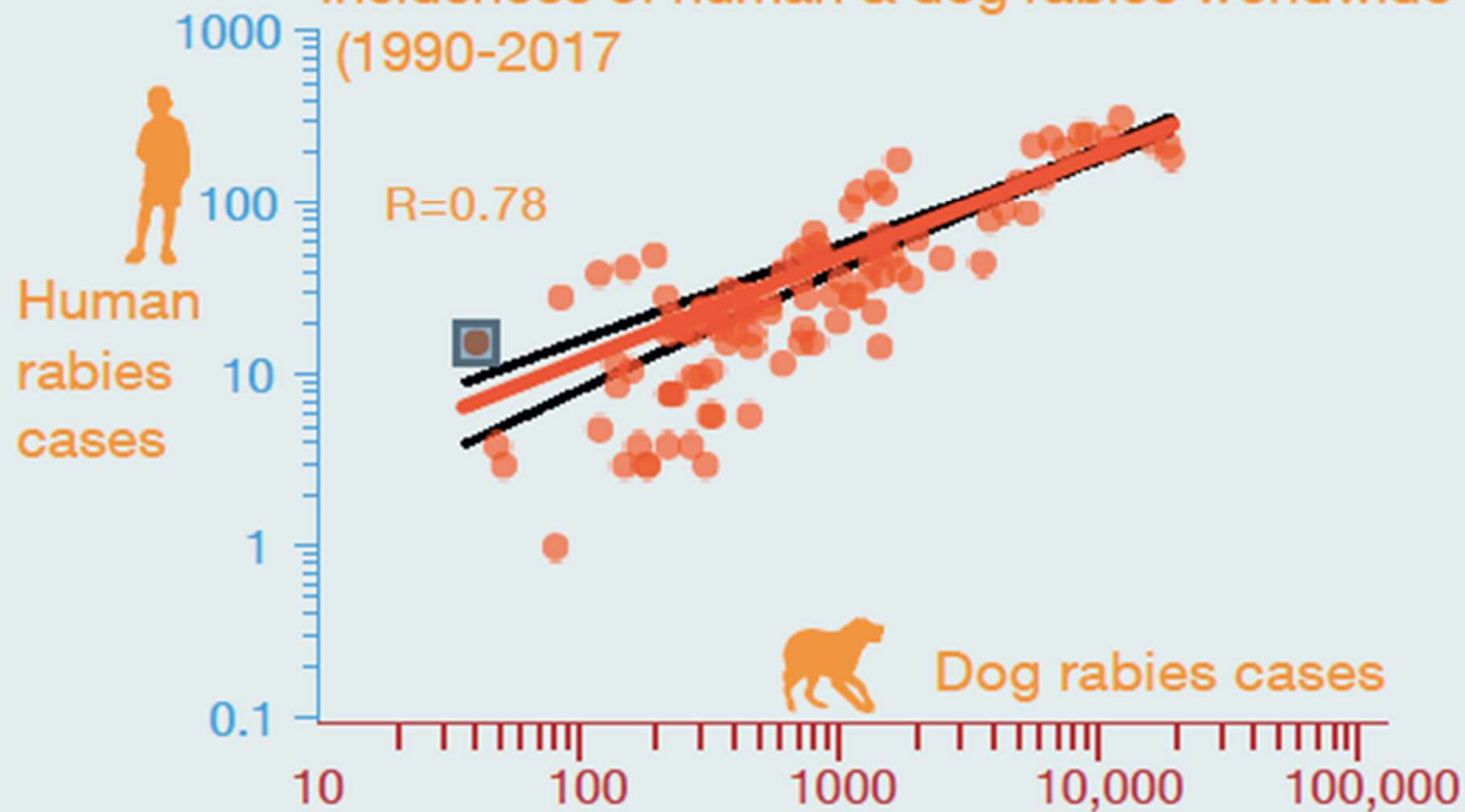
# Per capita human death rates from canine rabies

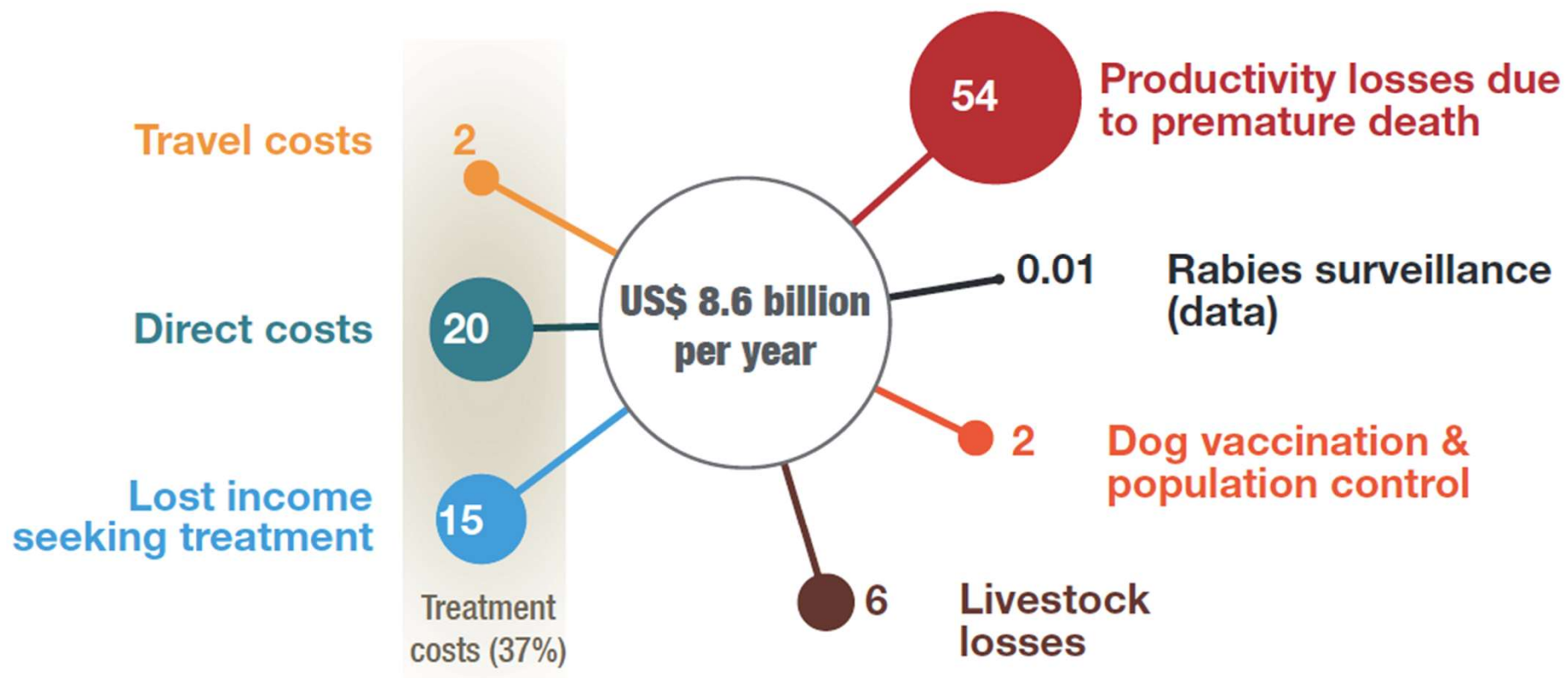


Hampson et al., 2015



# Incidences of human & dog rabies worldwide (1990-2017)





**Figure 2.** Rabies imposes a heavy economic burden



THE GLOBAL STRATEGIC PLAN  
TO END HUMAN DEATHS FROM  
DOG-MEDIATED RABIES BY 2030

**ZERO BY 30**



# UAR Global Strategic Plan



## A MISSION DRIVEN COALITION DEDICATED TO ACHIEVE A SHARED GLOBAL GOAL

The Collaboration builds on more than 10 years of global partnership, research and evidence-building to demonstrate the feasibility of eliminating dog-transmitted rabies

### The **UNITED AGAINST RABIES** collaboration

	<b>World Health Organization</b>	1946	<ul style="list-style-type: none"> <li>Global leadership for public health development to meet needs of disadvantaged population</li> <li>Nexus for governments, international organisations, NGOs, private sector and civil society</li> <li>Provides technical support to countries and catalyses capacity building</li> </ul>
	<b>Food and Agriculture Organization of the United Nations</b>	1945	<ul style="list-style-type: none"> <li>Aims to eliminate hunger and food insecurity worldwide</li> <li>Advocates for improved social and economic status of all people worldwide</li> <li>Engages partners and stakeholders including governments, civil society and the private sector</li> <li>Links what happens in local communities to regional and global initiatives</li> </ul>
	<b>World Organisation for Animal Health</b>	1924	<ul style="list-style-type: none"> <li>Aims to improve animal health and welfare</li> <li>Develops evidence - based international standards guidelines and recommendations for disease control and animal welfare</li> <li>Promotes strengthening of veterinary services worldwide</li> </ul>
	<b>Global Alliance for Rabies Control</b>	2007	<ul style="list-style-type: none"> <li>Dedicated to eliminating deaths from rabies</li> <li>Develops information, surveillance and training tools to increase country capacity for rabies control</li> <li>Provides training and capacity building to countries and coordinates regional intersectoral rabies networks</li> <li>Undertakes advocacy, education and communication campaigns</li> </ul>

## **ZERO HUMAN DEATHS** FROM DOG TRANSMITTED **RABIES** 2030



The purpose of this document is to present the Global Strategic Plan of the United Against Rabies Collaboration to end human deaths from dog-mediated rabies by 2030. The plan outlines the vision, the value proposition and the road-map designed to achieve the desired global goals set forth by the Collaboration. The document also presents the estimated resources (budget) required and the commitment from the international development partners and countries globally to deliver on these goals.



## HOW WE WILL REACH ZERO BY 30

Our global strategic plan prioritizes the societal changes needed to reach Zero by 30 into three objectives:

**OBJECTIVE 1**  
to effectively use  
vaccines, medicines,  
tools and  
technologies

**Reduce human rabies risk**

- improved awareness and education
- increased access to healthcare, medicines and vaccines
- dog vaccinations

**OBJECTIVE 2**  
to generate,  
innovate and  
measure impact

**Provide guidance and data**

- effective policies, guidance and governance
- ensuring reliable data to enable effective decision-making

**OBJECTIVE 3**  
to sustain  
commitment  
and resources

**Harness multi-stakeholder  
engagement**

demonstrate the impact of activities completed under the **United Against Rabies** collaboration

## PROPOSED PHASING OF RABIES ENDEMIC COUNTRIES IN THE GLOBAL STRATEGIC PLAN

### Phase 1: START UP

2018 - 2020

28 COUNTRIES

### Phase 2: SCALE UP

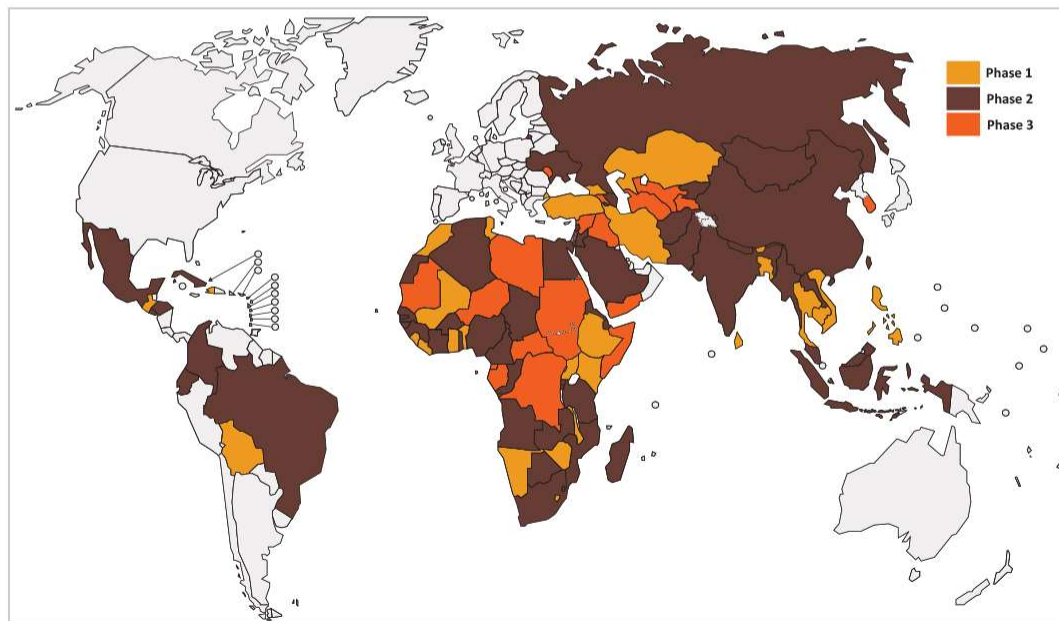
2021 - 2025

+52 COUNTRIES

### Phase 3: MOP UP

2026 - 2030

+19 COUNTRIES



**Phase 1:** Bangladesh, Benin, Bhutan, Bolivia (Plurinational State of), Cambodia, Ethiopia, Georgia, Ghana, Guatemala, Haiti, Iran (Islamic Republic of), Kazakhstan, Kenya, Lesotho, Liberia, Malawi, Mali, Morocco, Namibia, Nicaragua, Philippines, Sierra Leone, Sri Lanka, Thailand, Tunisia, Turkey, Uganda, Viet Nam, Zimbabwe

**Phase 2:** Afghanistan, Algeria, Angola, Azerbaijan, Botswana, Brazil, Burkina Faso, Burundi, Côte d'Ivoire, Cameroon, Chad, China, Colombia, Congo, Cuba, Djibouti, Ecuador, Egypt, El Salvador, Eritrea, Gambia, Guinea, Guinea-Bissau, Honduras, India, Indonesia, Israel, Jordan, Kyrgyzstan, Lao People's Democratic Republic, Lebanon, Madagascar, Malaysia, Mexico, Mongolia, Mozambique, Myanmar, Nepal, Nigeria, Pakistan, Russian Federation, Rwanda, Saudi Arabia, Senegal, South Africa, Senegal, South Africa, Swaziland, Togo, Ukraine, United Republic of Tanzania, West Bank and Gaza Strip, Western Sahara, Zambia

**Phase 3:** Armenia, Central African Republic, Democratic People's Republic of Korea, Democratic Republic of the Congo, Equatorial Guinea, Gabon, Iraq, Libyan Arab Jamahiriya, Mauritania, Moldova, Niger, Somalia, South Sudan, Sudan, Syrian Arab Republic, Tajikistan, Turkmenistan, Uzbekistan, Yemen



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## Rabies

- [Rabies home](#)
- [The disease](#)
- [Epidemiology](#)
- [Control and elimination strategies](#)
- [Information resources](#)

### The United Against Rabies collaboration builds skills and knowledge in rabies-endemic countries towards achievement of zero human rabies deaths

28 September 2018 | Geneva | Manhattan | Paris | Rome — On the occasion of the 12th World Rabies Day, the United Against Rabies collaboration highlights the critical role that intersectoral collaboration must play if the world is to be rid of human rabies deaths by 2030.

The *United Against Rabies collaboration*, consisting of the World Health Organization (WHO), World Organisation for Animal Health (OIE), Food and Agriculture Organization of the United Nations (FAO), and Global Alliance for Rabies Control

For more information

- [CONSULT](#) the full Global Strategic Plan "Zero by 30"
- [ACCESS](#) the PARACON meeting presentations and files
- [LEARN](#) more about World Rabies Day

Agriculture and Consumer Protection Department

## Animal Production and Health

FOOD AND AGRICULTURE ORGANIZATION  
OF THE UNITED NATIONS  
for a world without hunger



home programmes projects resources subjects commissions

SEARCH



EMERGENCY PREVENTION SYSTEM

Programmes

Emergency Prevention System for Animal Health (EMPRES-AH)

News

- 2018
- 2017
- 2016
- 2015
- 2014

### United Against Rabies launches global plan to achieve zero rabies human deaths

18 June 2018, Paris /Geneva/Rome/Manhattan (KS) - Investing approximately US\$ 50 million between now and 2030 can support the elimination of dog-mediated human rabies. A strategic plan that provides a phased, all-inclusive, intersectoral approach to eliminate human deaths from rabies has just been launched by United Against Rabies, a collaboration of four partners: the World Health Organization (WHO), the Food and Agriculture Organization of the United Nations (FAO), the World Organisation for Animal Health (OIE) and the Global Alliance for Rabies Control (GARC).

**Zero by 30: the global strategic plan to end human deaths from dog-mediated rabies by 2030** was prepared following a global call in 2015 to "end human rabies deaths by 2030".

The plan, finalized in consultation with relevant global, regional and country stakeholders, builds on the current international momentum to eliminate rabies.

In alignment with the United Nations Sustainable Development Goals and health for all, Zero by 30 advocates for investment to

Photo



Related documents

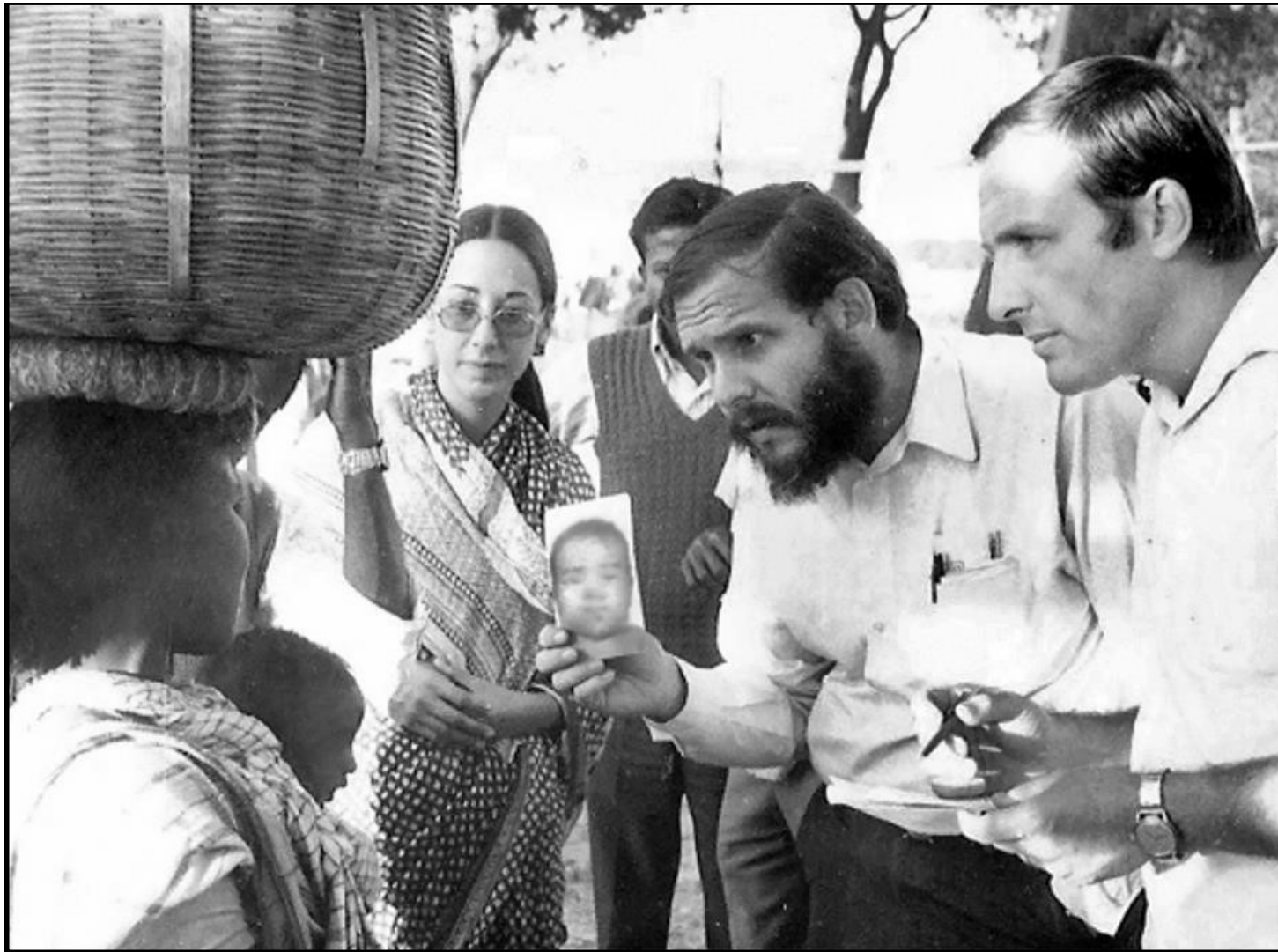
- Global Strategic Plan: Zero by 30
- Quick overview of the

- Consult the [full Global Strategic Plan: Zero by 30](#)
- View the Lancet Global Health article [here](#)

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Source: University of Michigan Library

# Rinderpest?

- Major threat to the food production industry
- Responsible for denuding Europe of cattle in the 19<sup>th</sup> century
- Economically devastating

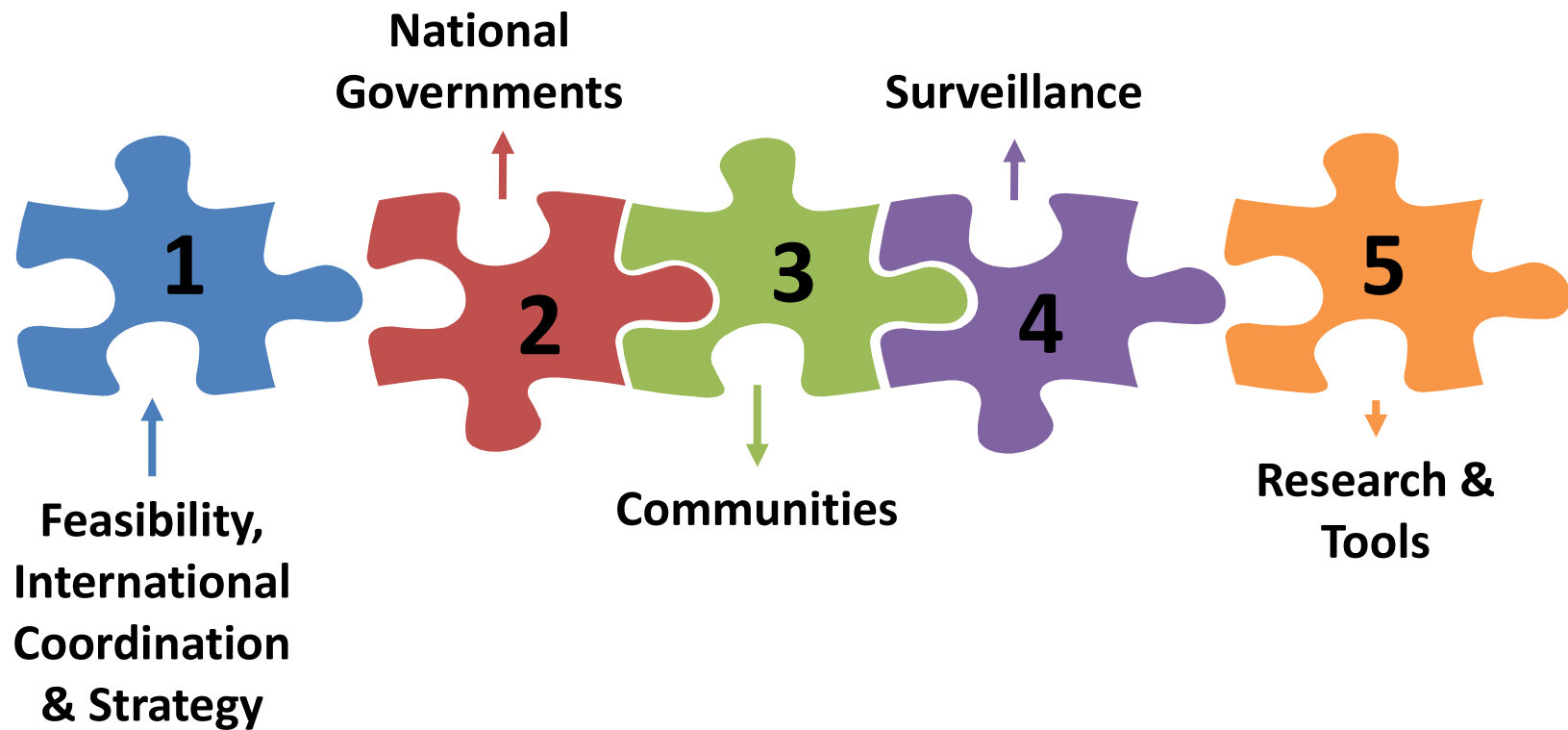


(Roeder et al., 2005)

Source: Greenbelly.co



# 5 Critical Factors in Eradication Successes

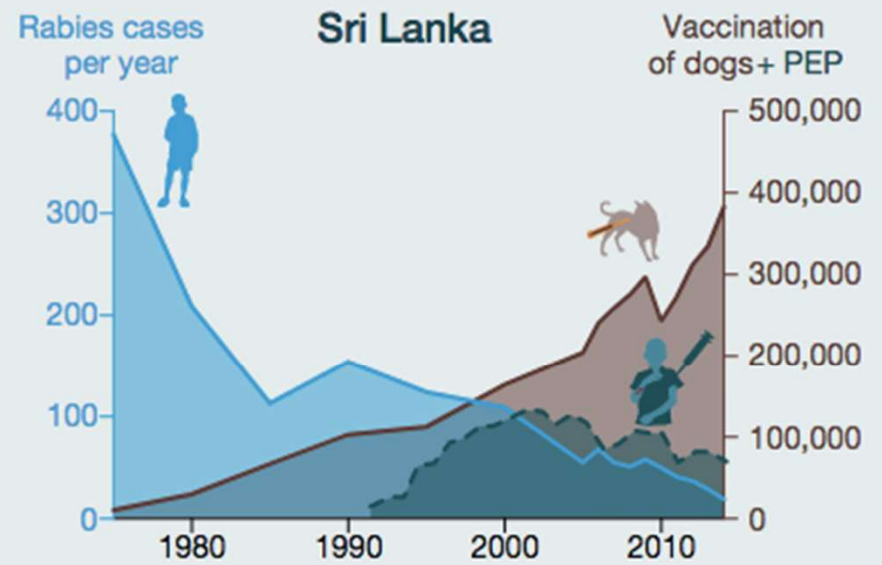
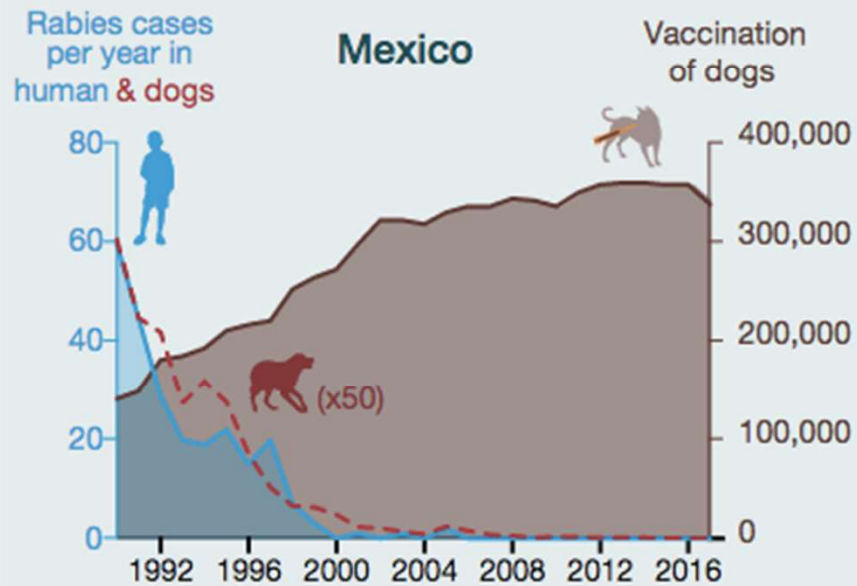




# Feasibility



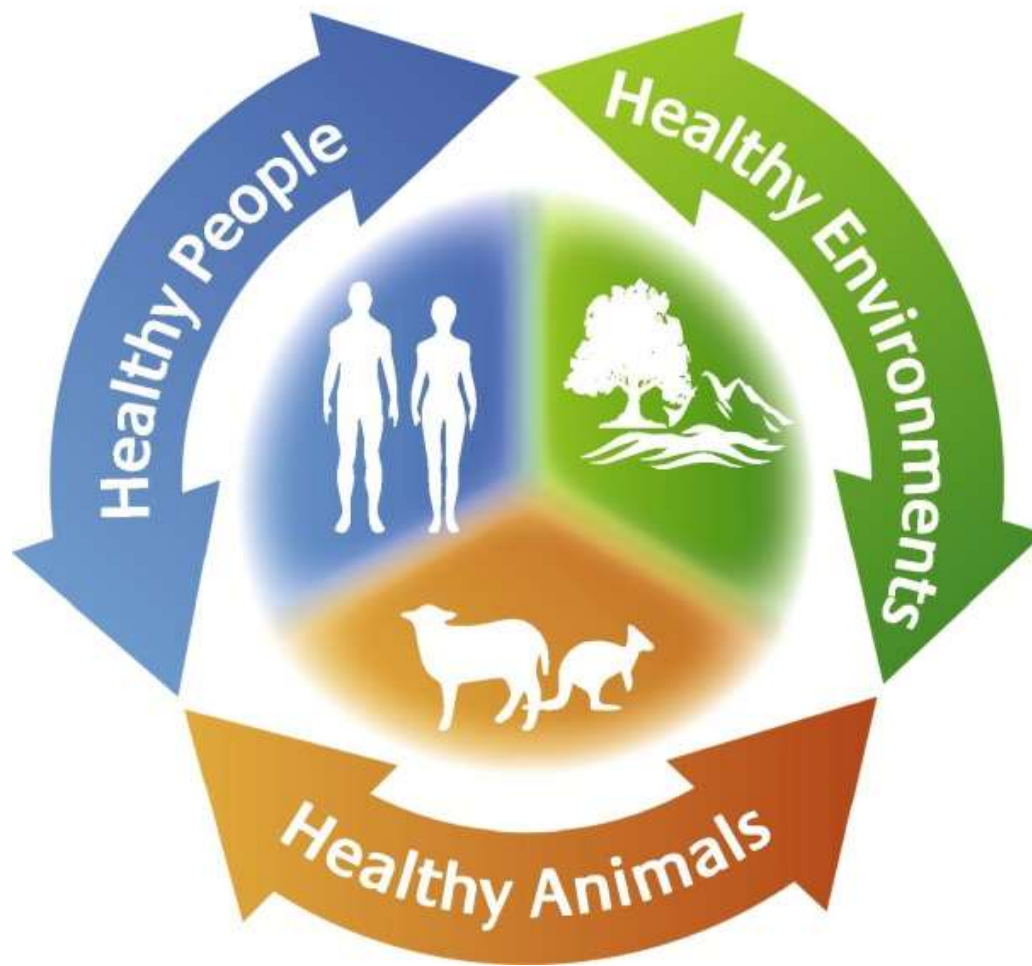
**Dog vaccination stops rabies transmission from dogs to humans**



1

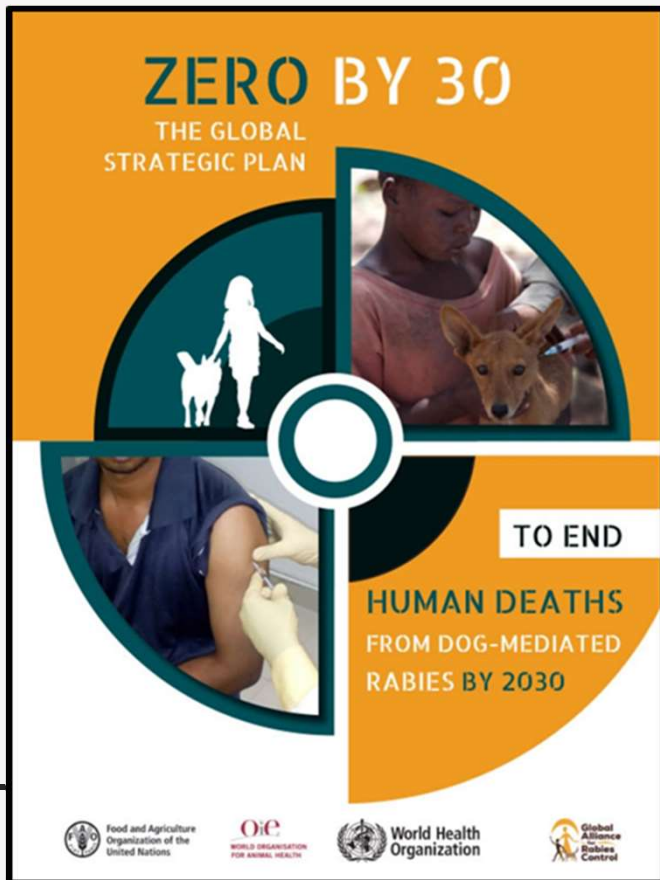
Feasibility, International Coordination & Strategy

# The One Health Triad





# *Strategy & Coordination*



## **Smallpox**

- WHO Strategic Action Plan
- International collaboration

## **Rabies**

- Global Strategic Plan, ZERO by 30
- International collaboration

**1**

Feasibility, International Coordination & Strategy



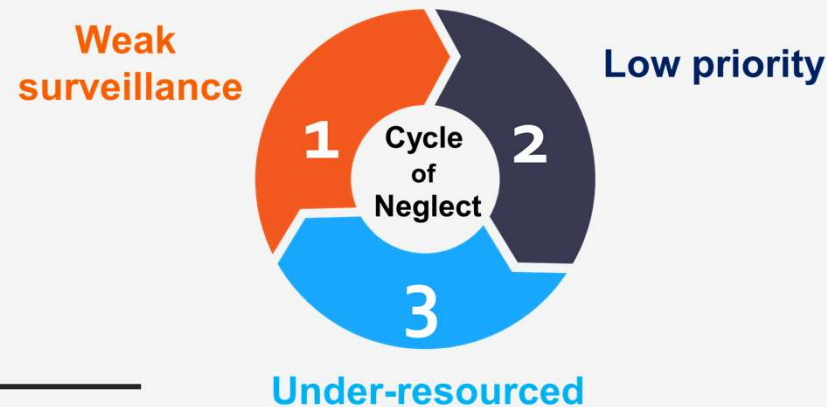
## *Political & Societal Support*

### **Smallpox**

- Significant societal and political support
- Smallpox affected everyone, contagious

### **Rabies**

- Rabies considered low priority = neglected







## *Funding*

National Governments

### Smallpox

- Mostly funded by national governments

### Rabies

- Governmental buy-in required
- Strategy country-centric

"..nor was support for the programme generous, whatever the favourable cost-benefit ratios may have been..."

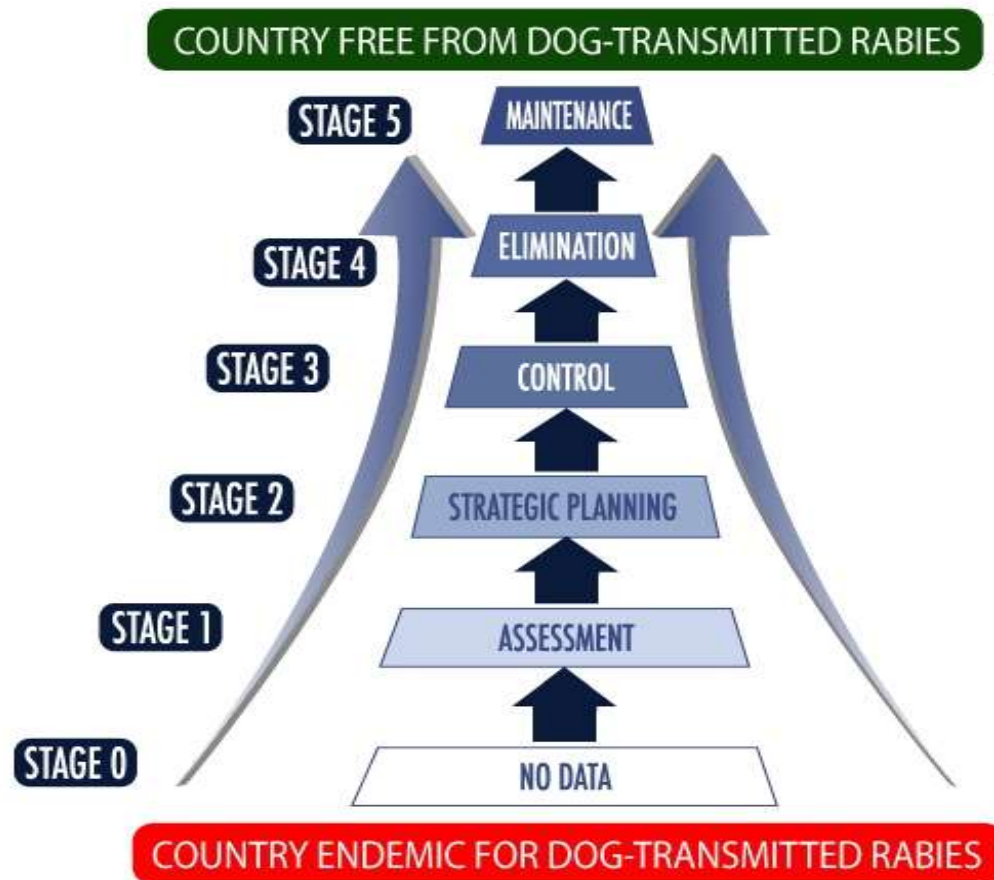
"..industrialized countries were reluctant contributors and UNICEF.... stated that it would make no contributions.."

"..cash donations to WHO during the first 7 years of the smallpox programme 1967-73, amounted to exactly US\$ 79500. That is not per year but the total for that entire period."

Henderson DA, Bulletin of the WHO 1998, 76 (Suppl 2) 17-41



# Stepwise Approach to Rabies Elimination



2018/19  
53 Countries

The Global Dog Rabies Elimination Pathway  
**GDREP**

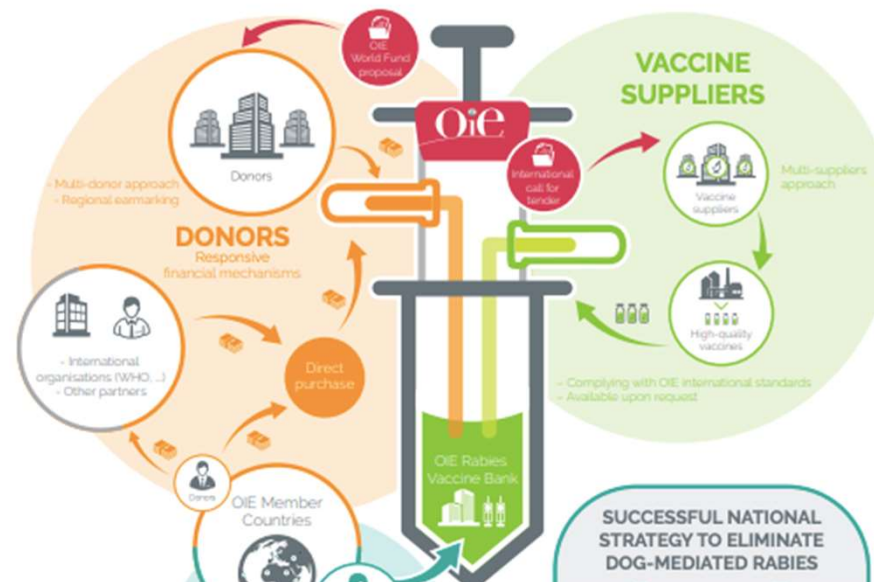
Using this tool, a well considered case can be made for the adequate financing of a rabies elimination strategy in any rabies endemic country..

# OIE Vaccine Bank

2018/19  
2 million doses  
13 countries

## CANINE RABIES VACCINES TO SAVE HUMAN LIVES

**RABIES** kills nearly **60,000 PERSONS PER YEAR** with more than **95%** of cases originating from **INFECTED DOG** bites. By providing high-quality dog vaccines, the OIE Vaccine Bank helps countries implement vaccination campaigns and eliminate canine-mediated human rabies.



# GAVI

## The Vaccine Alliance

### 06a - Annex C: Rabies Investment Case

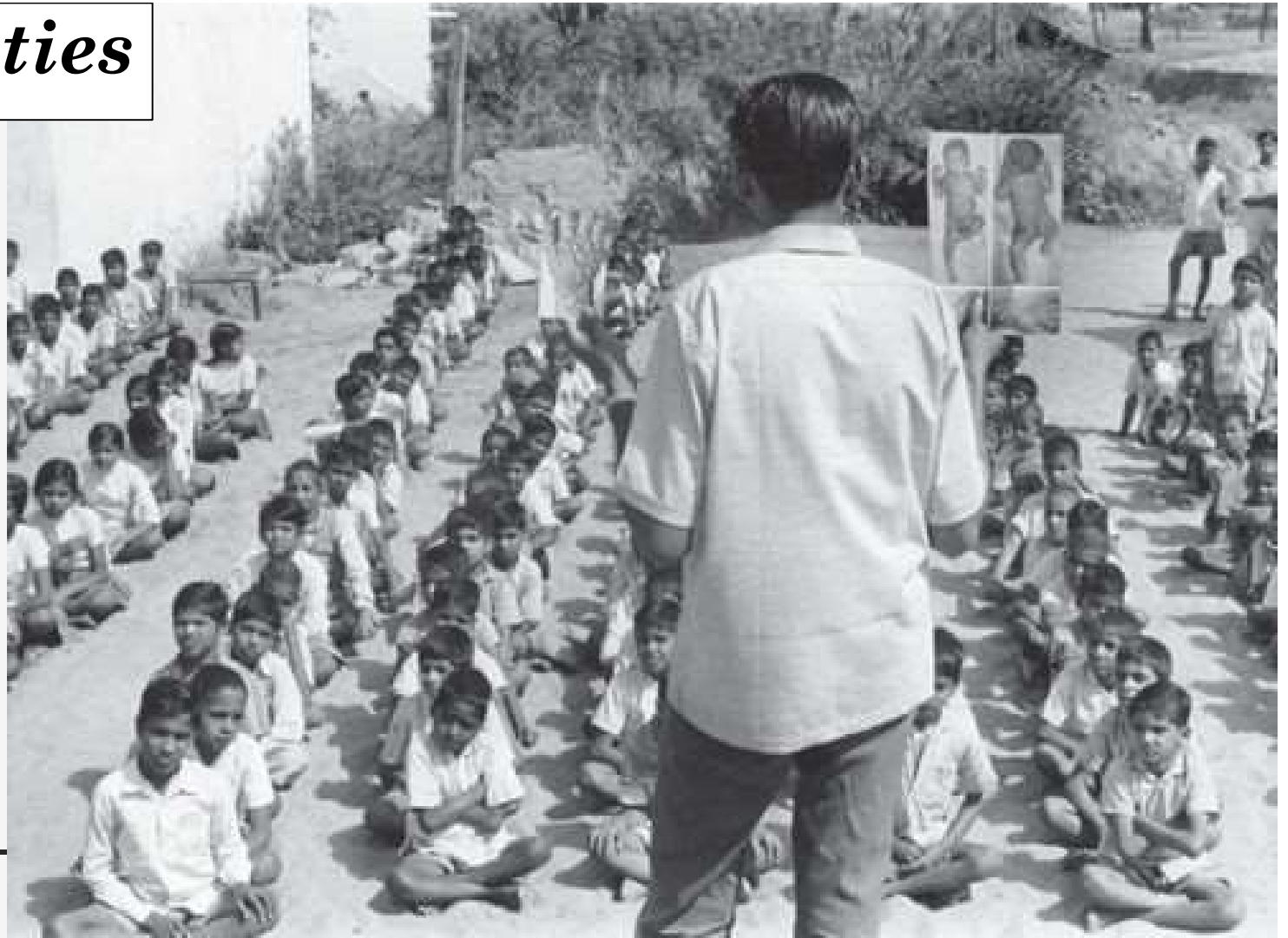
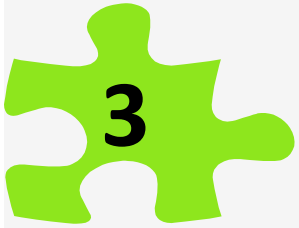
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Vaccine Investment Strategy  
Programme and Policy Committee Meeting  
18-19 October 2018



In June 2019, the GAVI Alliance announced that it would widen its portfolio to include human rabies vaccines as of 2021

# *Communities*



Henderson & Klepac 2013,  
Phil Trans R Soc B 368



# Communities

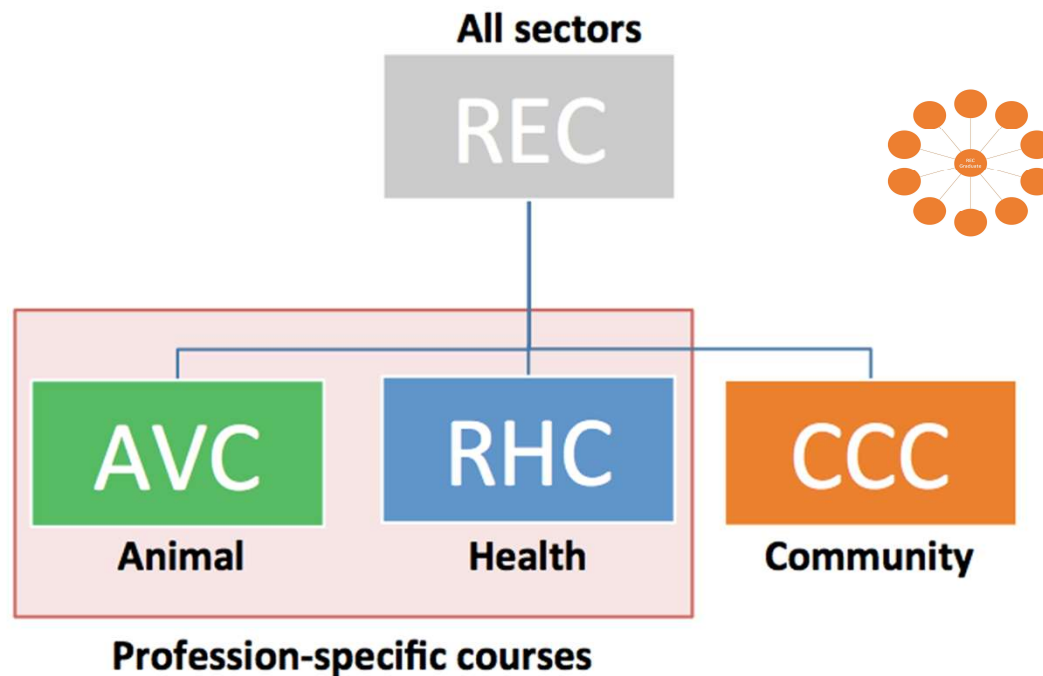












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Rabies Educator Certificate (REC)  
Animal Handling and Vaccination Certificate (AVC)  
Rabies Healthcare Certificate(RHC)  
Community Coordinator for Rabies Certificate(CCC)

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## Surveillance

**Smallpox** • Developed national and global systems for detection and reporting

“From the beginning of the programme, surveillance for smallpox cases was a basic strategy of the campaign. As expected it proved to be the ultimate quality control measure, the guide to improved operations and the yardstick of progress.”

Henderson, 1987

**Rabies**

- Severely under-reported
- Limited surveillance i.e. cycle of neglect (rabies Fermi paradox)

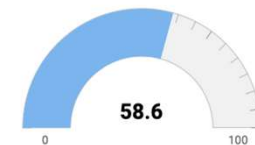
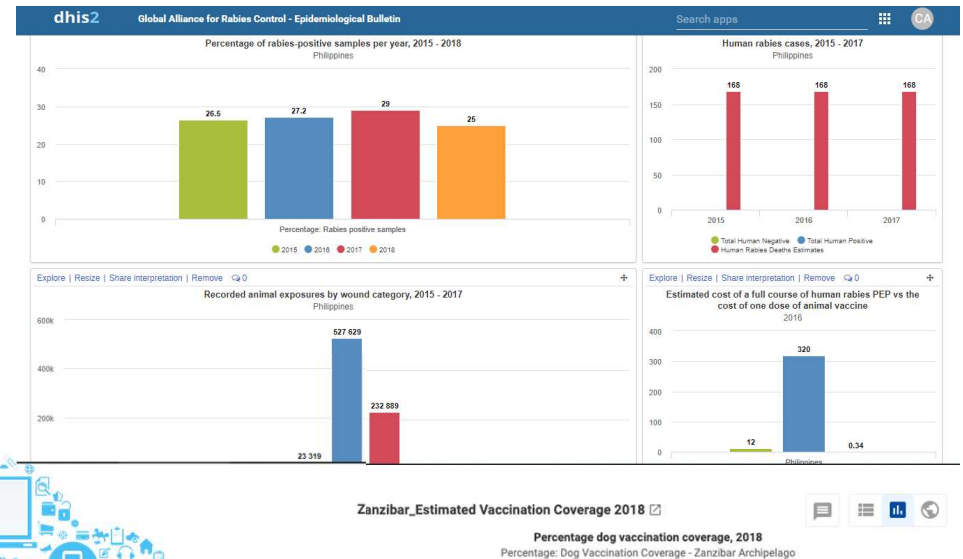


## The Rabies Epidemiological Bulletin:

- **Comprehensive** rabies surveillance system
- **Integrated, intersectoral** data sharing
- **Government owned** and driven
- **International** Indicators (OIE and WHO requirements)
- Facilitates **accurate** data reporting



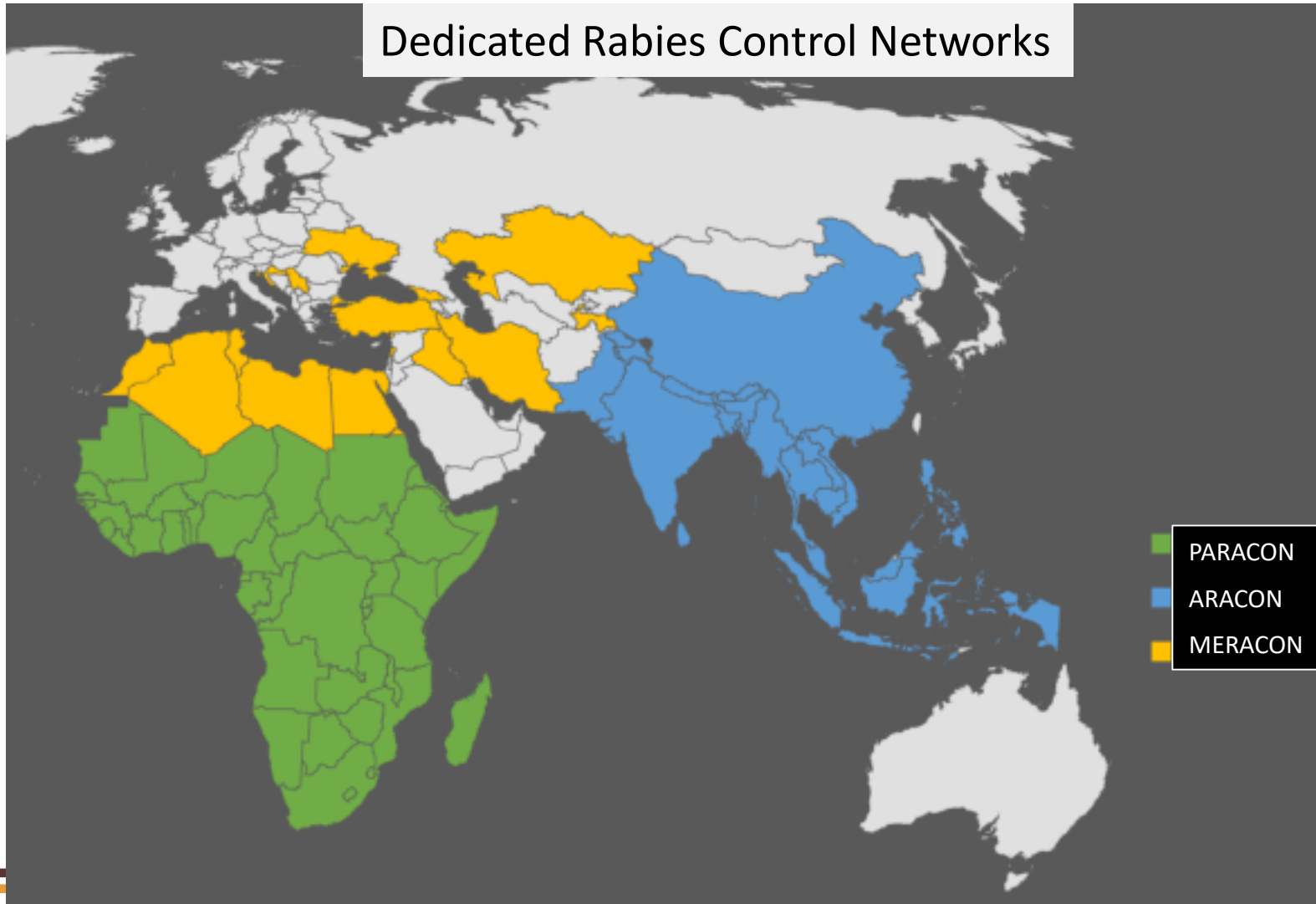
## Rabies Epidemiological Bulletin



Coordinated harmonization of data indicators and data validation to ensure accurate monitoring of progress, WHO, OIE and GARC



## Dedicated Rabies Control Networks





## Research and Tools

“..research initiatives were encouraged at every level. This occurred despite the opposition of senior WHO leadership who insisted that the tools were in hand and the epidemiology was sufficiently well understood and that better management was all that was necessary to eradicate smallpox.... ”

Henderson DA, Bulletin of the WHO 1998

# CanineRabiesBlueprint.org

**caninerabiesblueprint.org**

a blueprint for the control of rabies  
in dog populations



## ELIMINATE CANINE RABIES

- [Introduction](#)
- [Roles and Responsibilities](#)
- [Infrastructure, legislative framework, costs and funding](#)
- [Communications plan](#)
- [Operational activities](#)
- [The Stepwise Approach towards Rabies Elimination: a tool for planning and evaluation](#)

## LINKS

- [Case studies](#)
- [Documents](#)

## CONTRIBUTORS

[→ All the contributors](#)

## WELCOME

The Blueprint for Canine Rabies Prevention and Control has been developed by global rabies experts to serve as a guide for countries that would like to prevent human rabies by eliminating canine rabies within their borders.

VERSION 3 - UPDATED AND EXPANDED - IS NOW COMPLETED.  
GARC, September 2014



## Where are World Rabies Day events taking place?

Click on the map or search for an event

Any Region ▾

Any Country ▾

2019 ▾

MAP

LIST

