



1st ASIAN Rabies CONTROL NETWORK (ARACON) MEETING

The Sukosol Bangkok, Thailand | 13-14 March 2018

ARACON

Louis Nel

Professor, University of Pretoria and
Executive Director, Global Alliance for Rabies Control





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- Why are we here
- What is the problem
- What are the solutions, next steps
- What are our respective roles and responsibilities



RESEARCH ARTICLE

Estimating the Global Burden of Endemic Canine Rabies

Katie Hampson^{1*}, Laurent Coudeville², Tiziana Lembo¹, Maganga Sambo³, Alexia Kieffer², Michaël Attlan², Jacques Barrat⁴, Jesse D. Blanton⁵, Deborah J. Briggs⁶, Sarah Cleaveland¹, Peter Costa⁶, Conrad M. Freuling⁷, Elly Hiby⁸, Lea Knopf⁶, Fernando Leanes⁹, François-Xavier Meslin¹⁰, Artem Metlin¹¹, Mary Elizabeth Miranda⁶, Thomas Müller⁷, Louis H. Nel¹², Sergio Recuenco⁵, Charles E. Rupprecht^{6,13}, Carolin Schumacher¹⁴, Louise Taylor⁶, Marco Antonio Natal Vigilato⁹, Jakob Zinsstag¹⁵, Jonathan Dushoff¹⁶, on behalf of the Global Alliance for Rabies Control Partners for Rabies Prevention

- **59,000 human deaths**
- **3.7 million DALYs**
- **\$8.6 billion USD in losses**

GLOBAL FRAMEWORK FOR THE ELIMINATION OF DOG-MEDIATED HUMAN RABIES

Dog-mediated human rabies kills tens of thousands of people every year worldwide. Freedom from dog-mediated human rabies is a global public good and is feasible with currently available tools.

In accordance with the consensus of the Global Conference (Geneva, 10-11 December 2015), this framework provides a coordinated approach and vision for the global elimination of dog-mediated human rabies. It is intended to harmonize actions and provide adaptable, achievable guidance for country and regional strategies.

The five pillars of rabies elimination (STOP-R)

1 SOCIO-CULTURAL

Rabies control involves a wide range of stakeholders including the general public. The socio-cultural context influences rabies perceptions and dog-keeping practices of at-risk populations. Understanding the context guides approaches to motivate behavioural change and plan feasible delivery of services.

Includes activities for:

- Awareness: build awareness of dog-mediated rabies as a preventable global public health problem including through participation in initiatives such as World Rabies Day and the EndRabiesNow campaign
- Responsible dog ownership: promote responsible dog ownership and dog population management practices, including dog vaccination, in accordance with OIE standards
- Bite prevention and treatment: develop and implement education programmes on bite prevention and first aid for both children and adults
- Post-exposure prophylaxis: increase awareness and understanding of post-exposure prophylaxis (PEP) imperatives and options including intradermal administration
- Community engagement: encourage community involvement and engagement in activities to eliminate dog-mediated rabies

2 TECHNICAL

Effective animal health and public health systems are required to eliminate dog-mediated human rabies. These systems must be strengthened and resourced appropriately, and gaps identified and filled.

Includes activities for:

- Vaccination: ensure safe, efficacious and accessible dog and human vaccines and immunoglobulins, and promote and implement mass dog vaccination as the most cost-effective intervention to achieve dog-mediated human rabies elimination
- Logistics: collect data on needs forecasts to inform the vaccine procurement system and to create and sustain the logistics and infrastructure required for effective delivery and implementation of mass dog vaccination programmes and PEP administration
- Diagnostics: ensure capacity and capability for rapid and accurate rabies diagnosis through accessible, well equipped laboratories and trained personnel
- Surveillance: support improved surveillance, sampling, reporting, and data-sharing
- Technical support: provide guidance and technical support for the development and tailoring of regional and national plans, including promoting the use of existing tools
- Proof of concept: support proof-of-concept programmes, and then scale up through leveraging of success

3 ORGANIZATION

The One Health approach of close collaboration is applied. Leadership, partnership and coordination for rabies elimination activities arise from the human health and animal health sectors and other stakeholders.

Includes activities for:

- One Health: promote the One Health approach and intersectoral coordination through national and regional networks
- Good governance: establish good governance, including clear roles, chain of command, measurable outcomes and timelines
- Harmonization: align work plans and activities with national and regional priorities and approaches fostering synergies among sectors
- Coordination: coordinate and combine human resources, logistics and infrastructure of other programmes and initiatives, as appropriate and feasible
- Indicators and performance: identify targets and their indicators to support performance measurement, including surveillance and validation data, to identify areas requiring attention or extra support
- Monitoring and evaluation: support monitoring and evaluation of national plans to ensure timely and cost effective delivery

4 POLITICAL

Success depends on political will and support for elimination of dog-mediated human rabies. Political will results from recognition of rabies elimination as a national, regional and global public good.

Includes activities for:

- Political support: political support is essential and most relevant during and following country instability (political upheaval, natural disasters, etc.)
- International support: encourage countries to request a resolution on dog-mediated human rabies elimination through the World Health Assembly (WHO) and the General Assembly of Delegates (OIE)
- Legal frameworks: establish and enforce appropriate legal frameworks for rabies notification and elimination
- Demonstrating impacts: demonstrate the compelling case for mass dog vaccination programmes and their impact on protecting and saving human lives
- Regional engagement: support active national and regional engagement and cooperation to commit to a rabies elimination programme and promote the exchange of lessons learnt and experiences to leverage resources and engagement

5 RESOURCES

Rabies elimination activities frequently span several years and therefore require sustained, long-term support.

Includes activities for:

- Case for investment: promote the case for investment in dog-mediated human rabies elimination to persuade countries, policy makers and donors of the feasibility, merit and value of investing in rabies elimination strategies
- Business plans: prepare business plans based on the Global Framework for Dog-mediated Human Rabies Elimination
- Investment: encourage different forms of investment and partnerships (private and public investment) to leverage resources and engagement

CRITICAL SUCCESS FACTORS

- ③ Long-term political and social commitment
- ③ Community engagement
- ③ Sustainable vaccination of 70% of the at-risk dog population
- ③ Proof of concept: start small, scale up
- ③ Sufficient resources, logistics and infrastructure
- ③ Promote vaccine banks and other strategies for acquisition of rabies immunoglobulins to ensure sufficient supply of quality-assured rabies vaccines and human immunoglobulin
- ③ Reach remote, rural and at-risk populations
- ③ Conduct performance measurement at all levels
- ③ Maintain trained and motivated implementation personnel

STRATEGIC VISION: zero human deaths from dog-mediated rabies by 2030 in participating countries

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

ZERO BY 30



World Health
Organization



Food and Agriculture
Organization of the
United Nations

Oie
WORLD ORGANISATION
FOR ANIMAL HEALTH

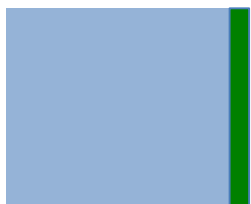


Per capita costs of rabies prevention

Dog vaccination coverage (%)

Human rabies deaths per million population

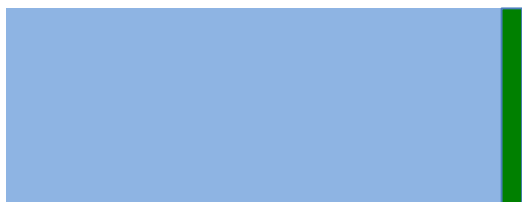
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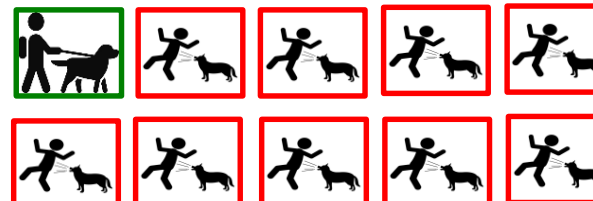
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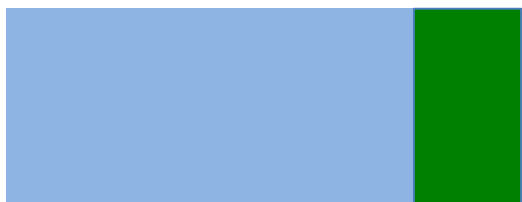
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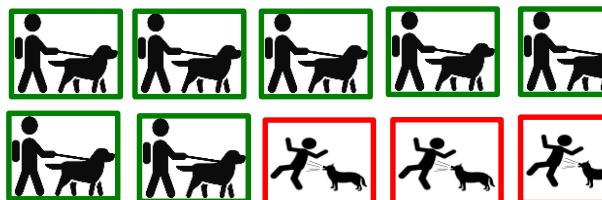
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LATIN AMERICA



\$0.34



Human post-exposure prophylaxis

Dog vaccination

Pan African Rabies Control Network



About Us ▾

HISTORY
MISSION
STATEMENT
VISION
PARTNERS



GARC LAUNCHED ITS FIRST FREE
ONLINE COURSE:

The Rabies Educator Certificate

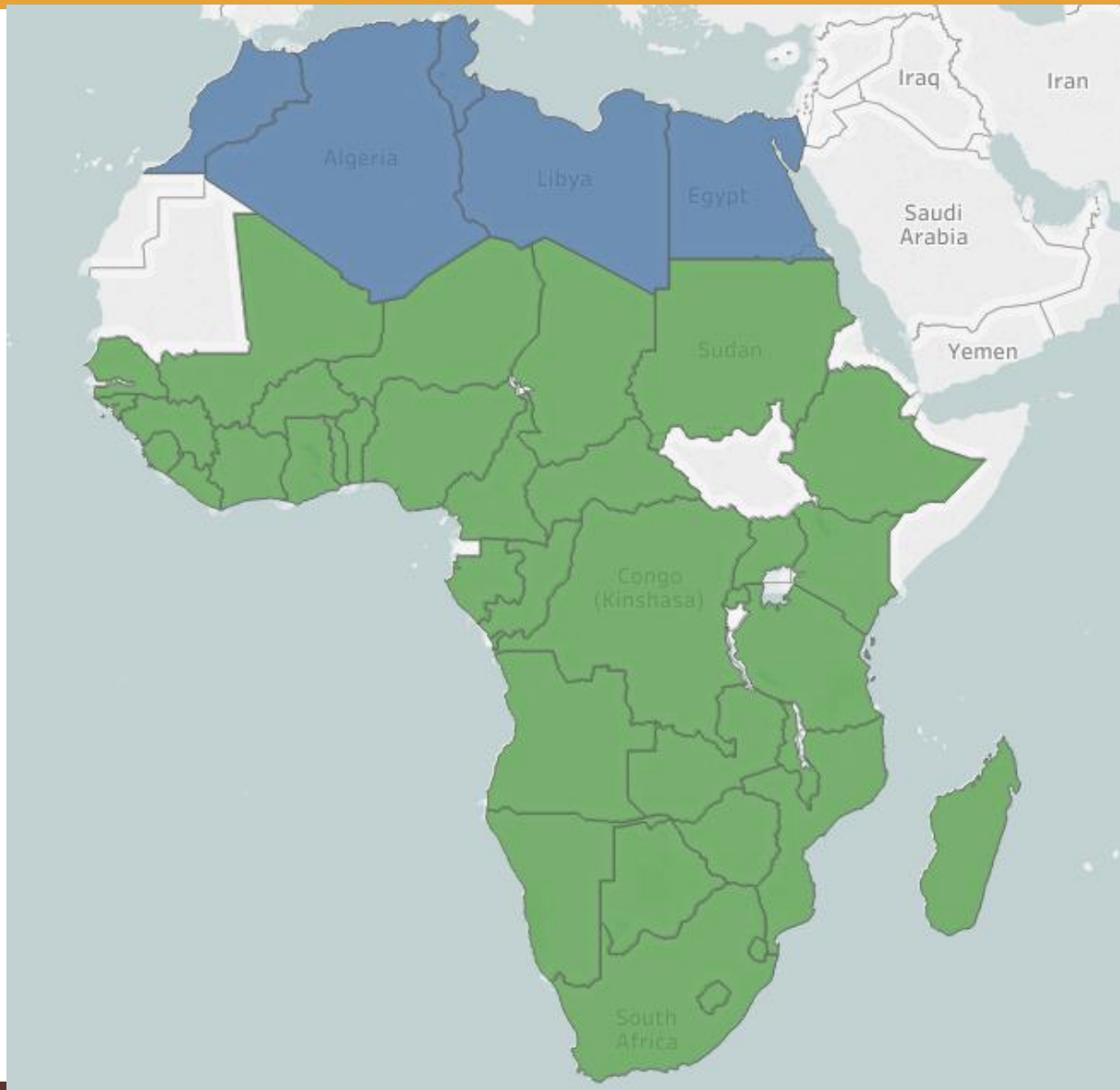
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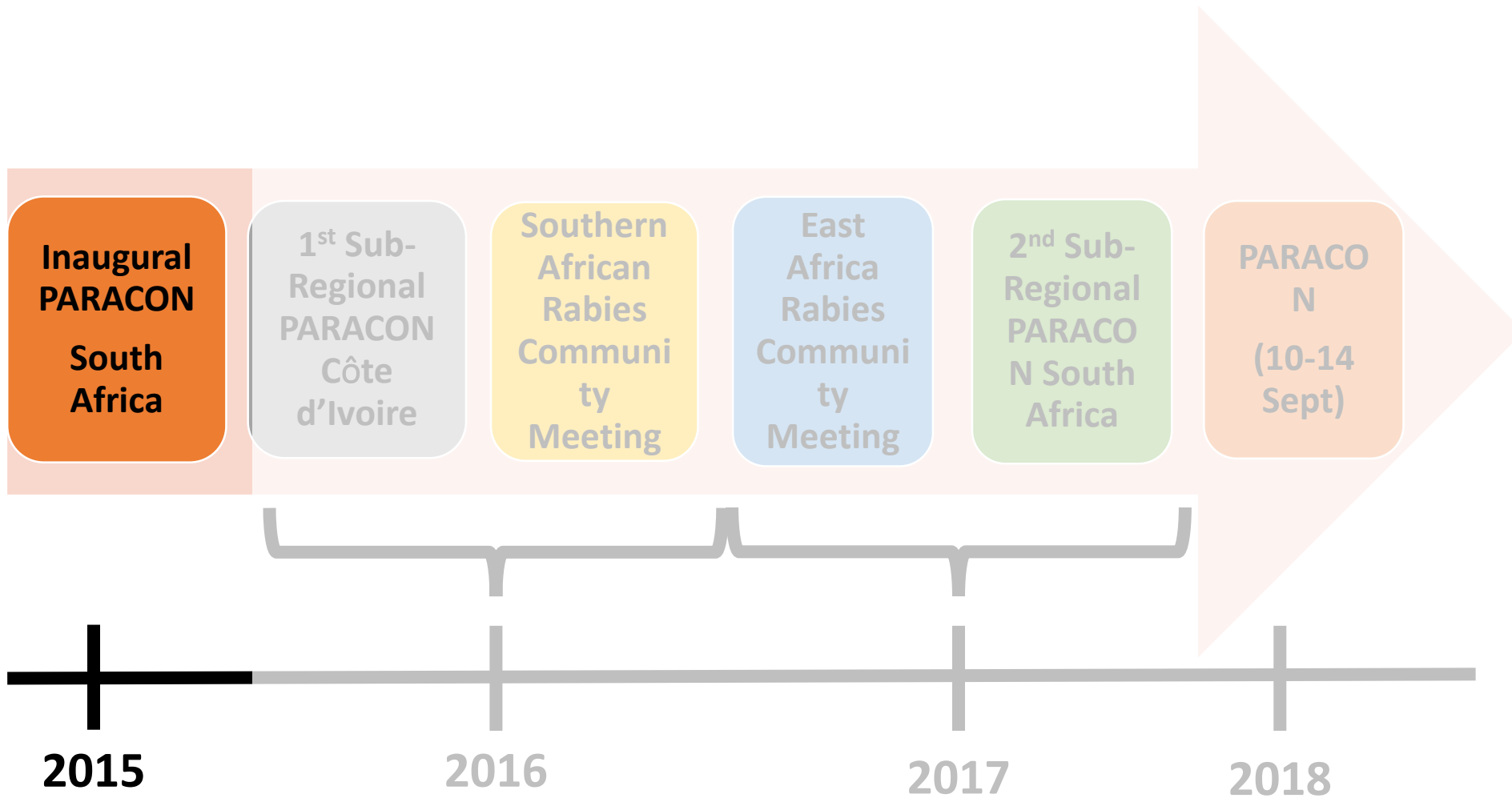


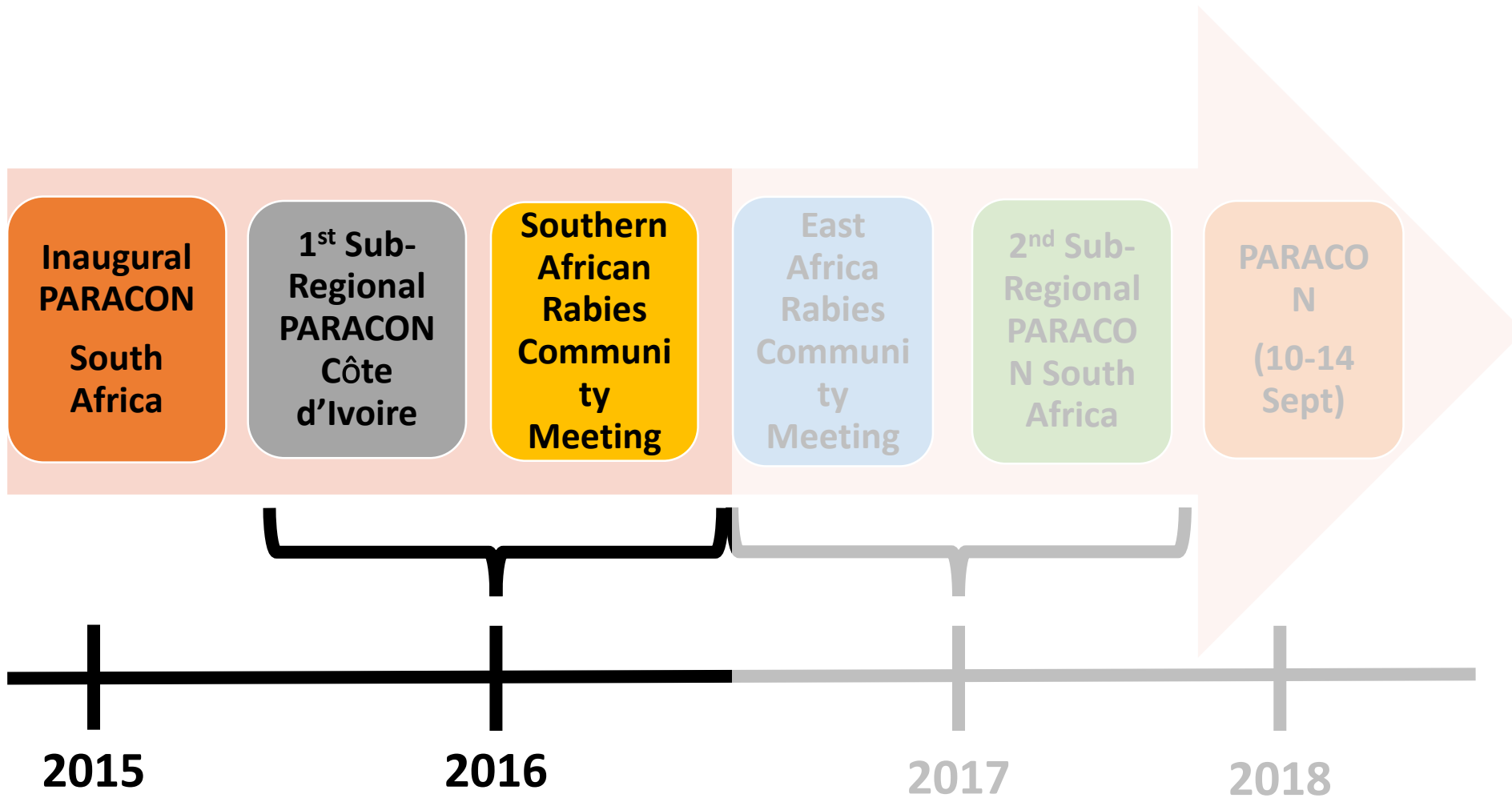
ABOUT US

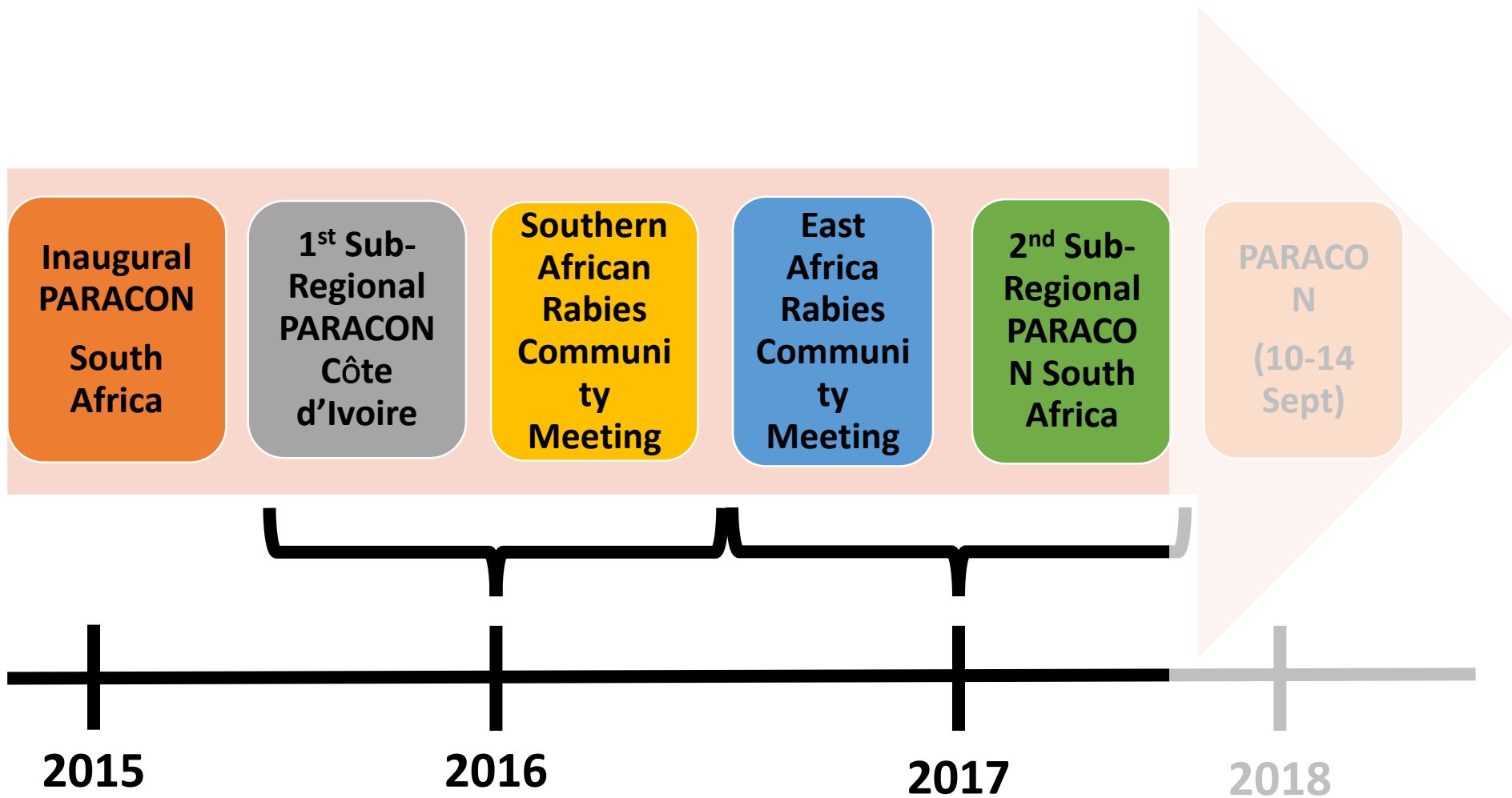
<https://paracon.rabiesalliance.org>

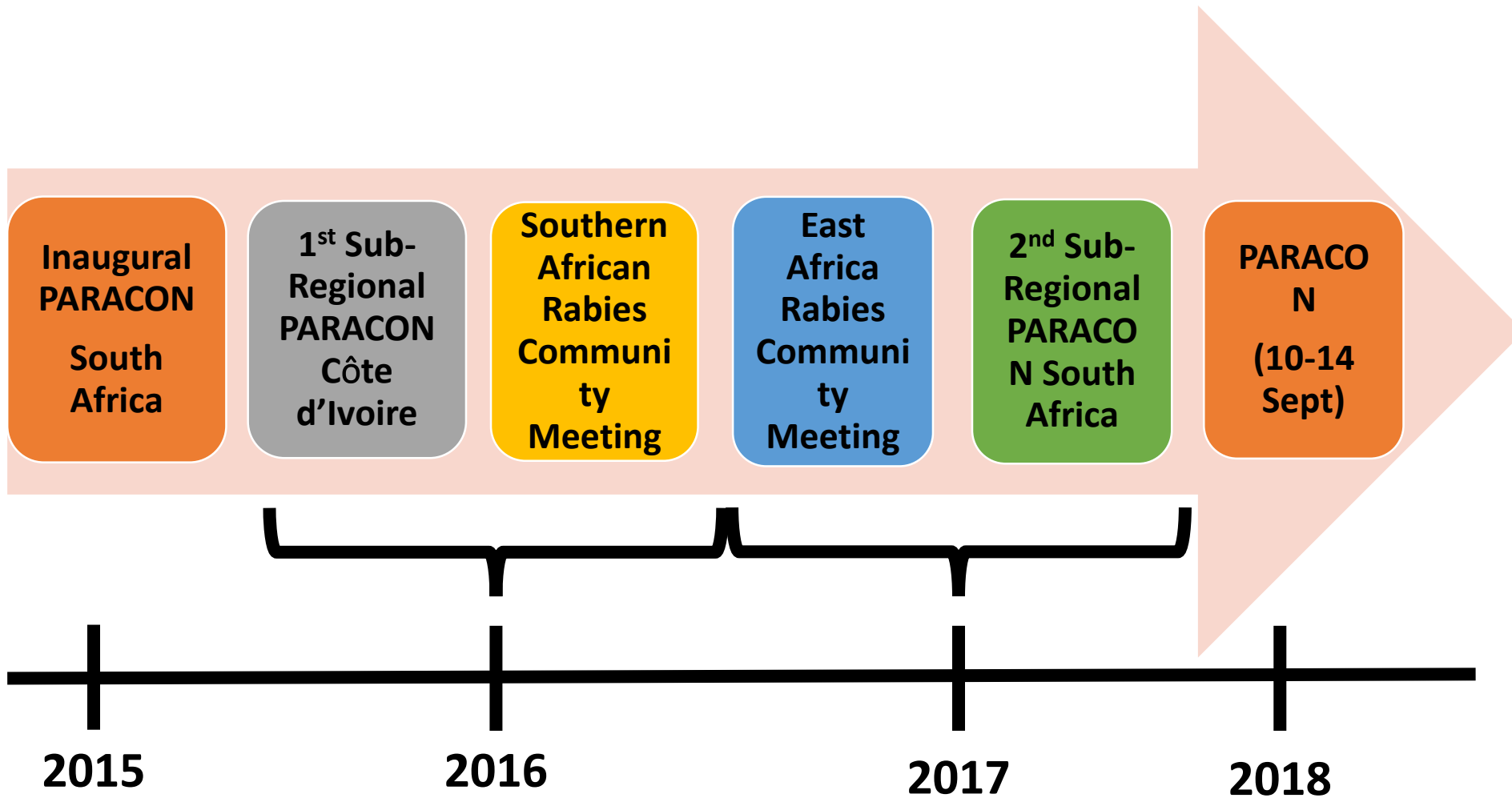
PARACON Countries





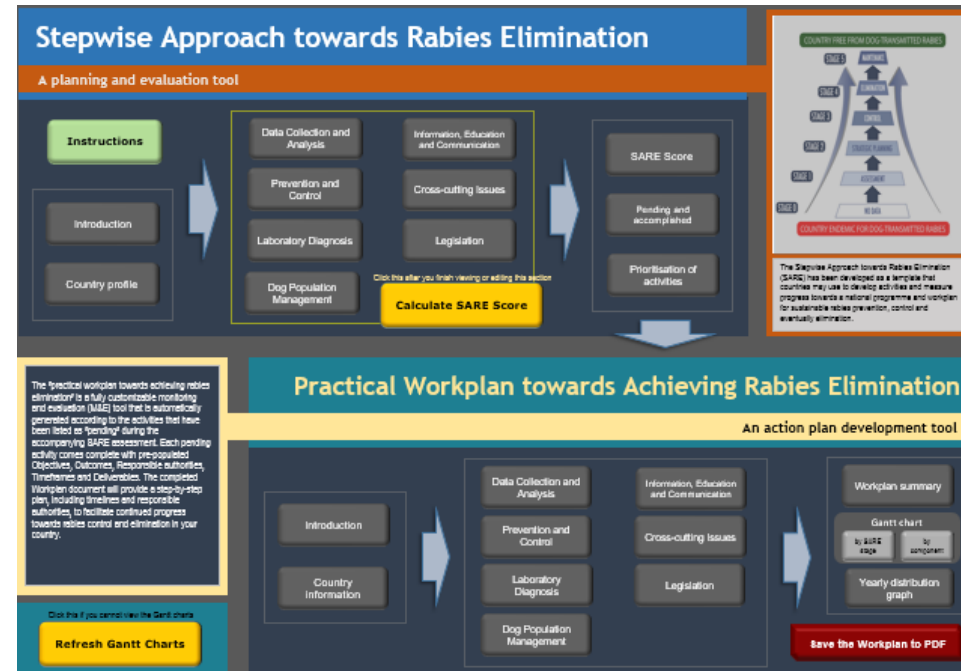






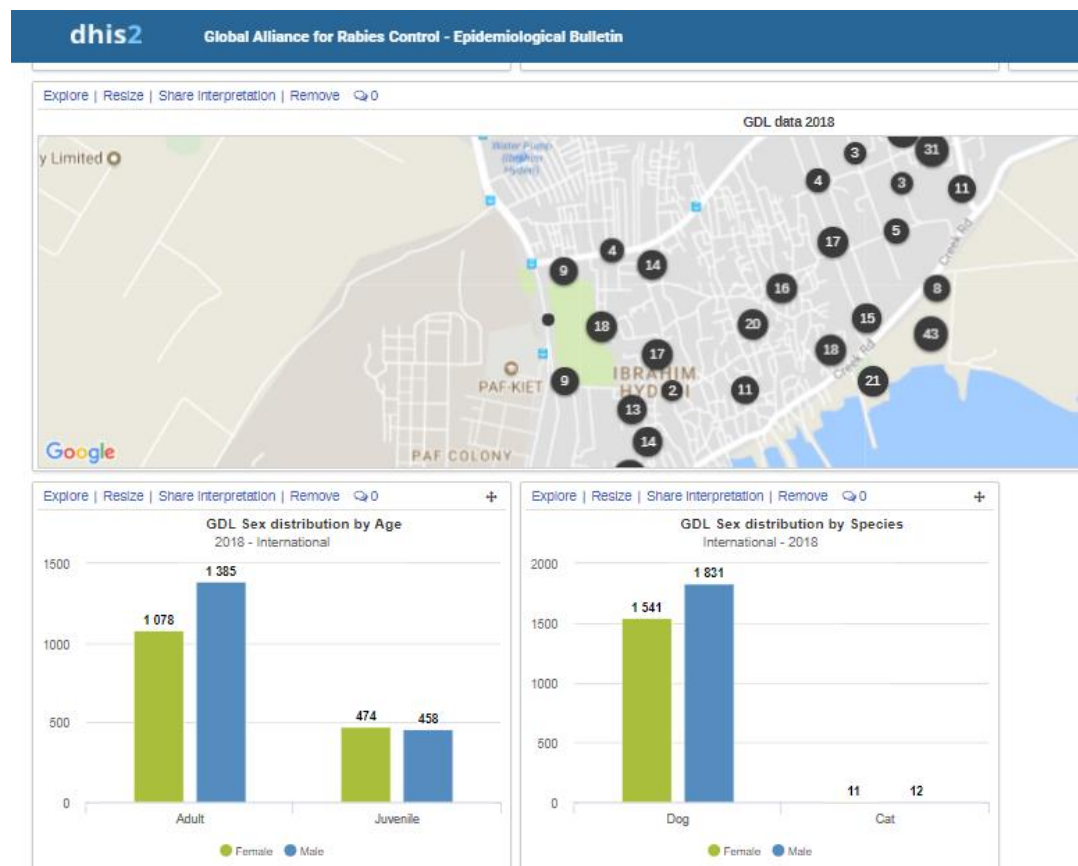
SARE-Workplan tool

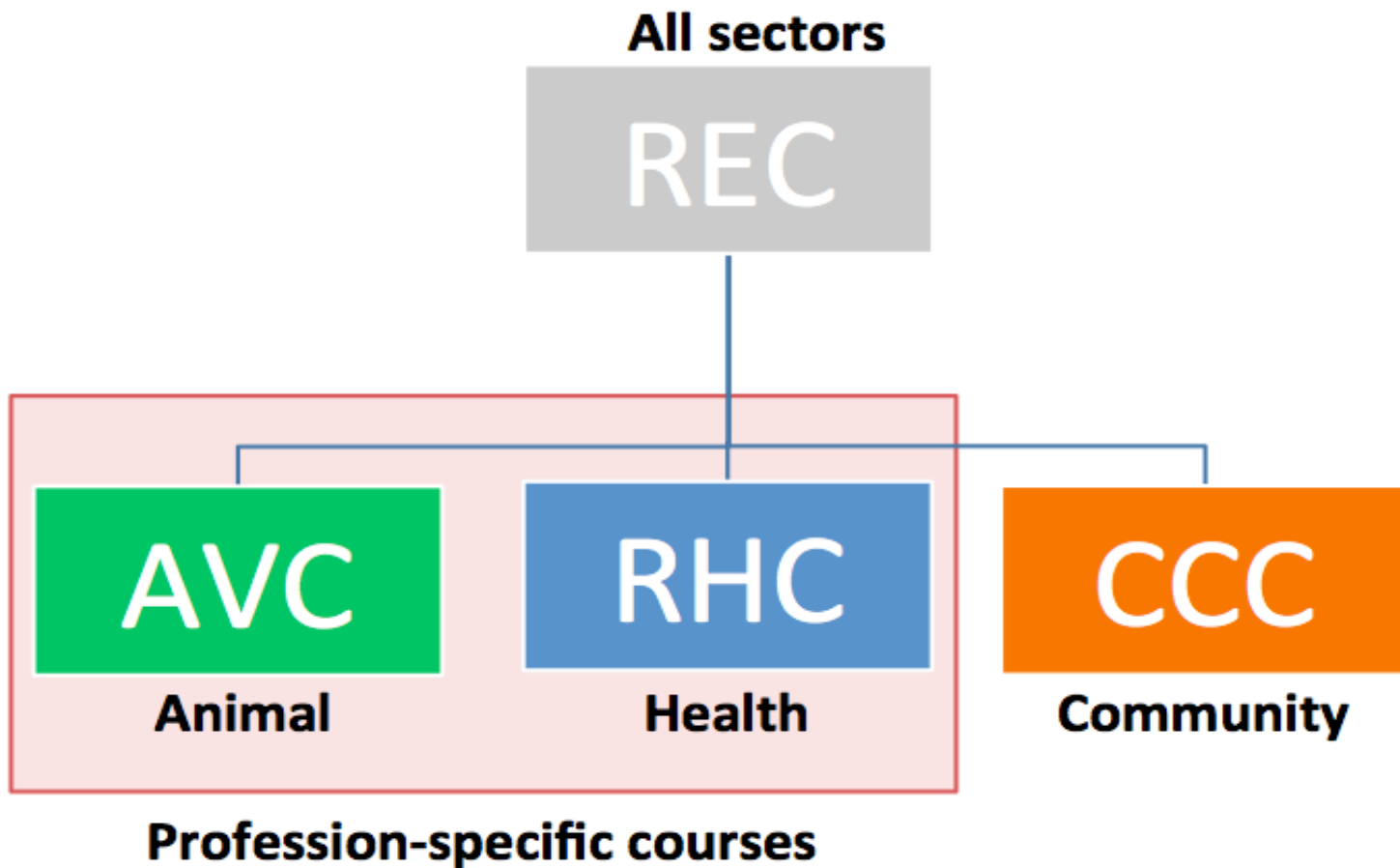
- Stepwise Approach towards Rabies Elimination (SARE)
 - Self-assessment for countries to evaluate rabies situation
- National Workplan
 - Use outcomes from SARE to develop a detailed, comprehensive National Rabies Workplan to drive the National strategy and achieve rabies elimination



Rabies Epidemiological Bulletin

- DHIS2-based tool
- Tool to assist countries in improving surveillance
- Helps to ease reporting burden
- Effective data sharing
- Easy data analysis and visualisation





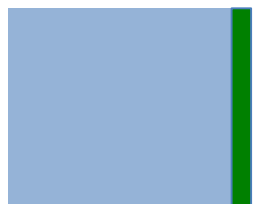
Rabies Educator Certificate (REC)
Animal Handling and Vaccination Certificate (AVC)
Rabies Healthcare Certificate (RHC)
Community Coordinator for Rabies Certificate (CCC)

Per capita costs of rabies prevention

Dog vaccination coverage (%)

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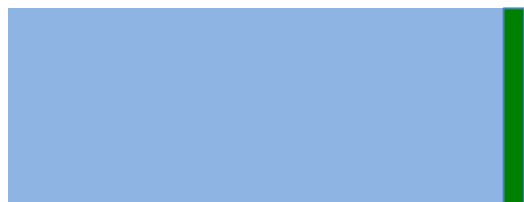
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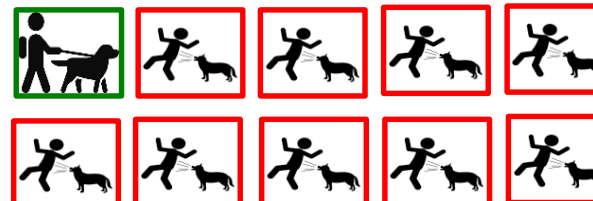
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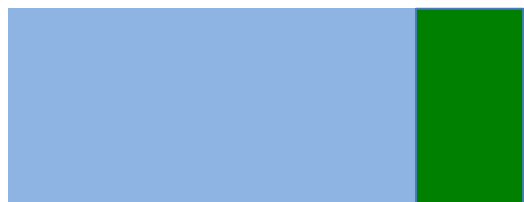
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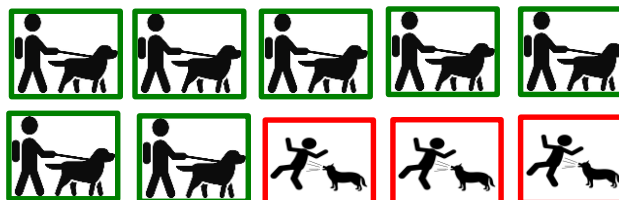
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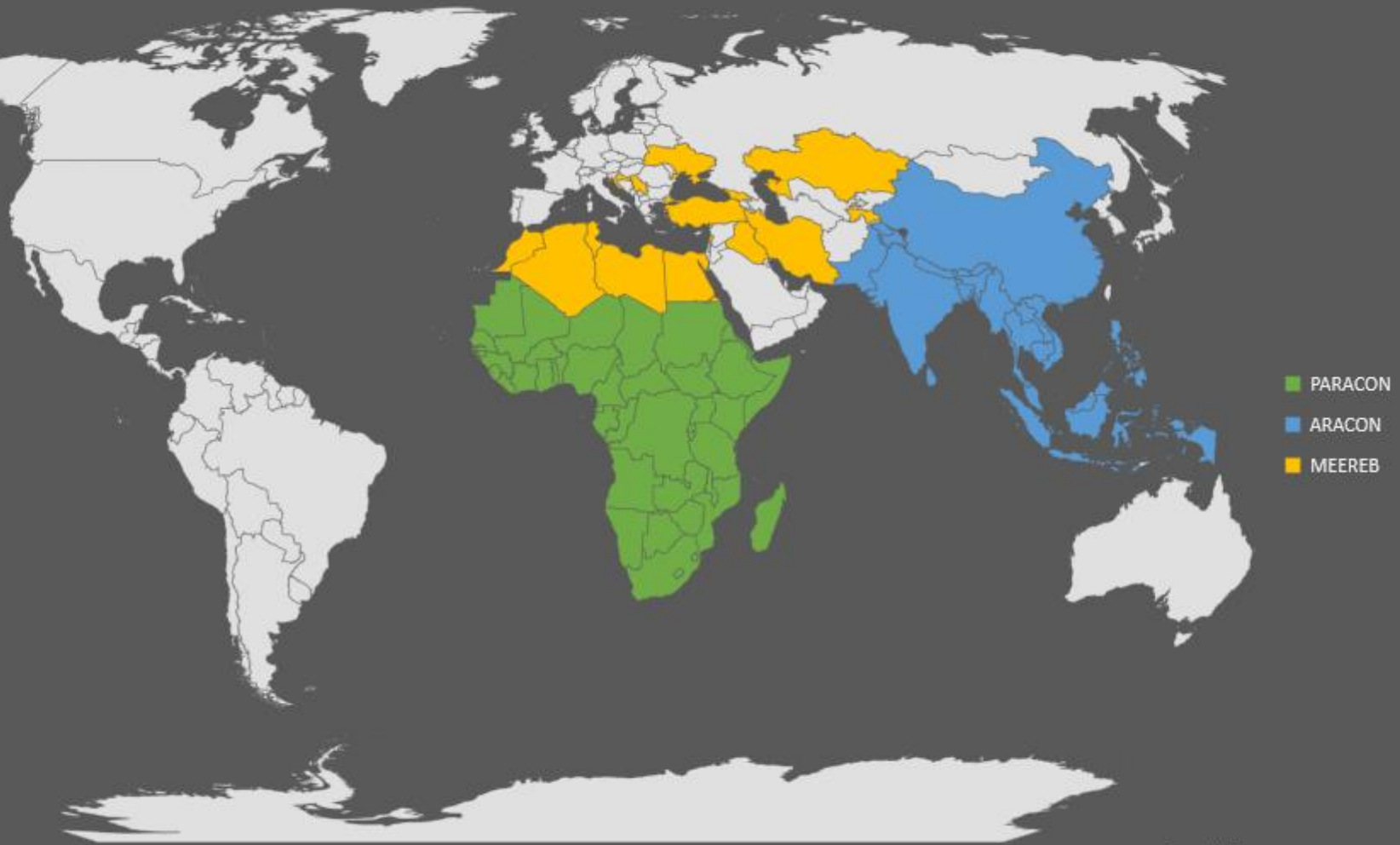
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Human post-exposure prophylaxis

Dog vaccination

New Rabies Networks



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ARACON aims to...



- **Unify** Asian countries and rabies control networks and promote co-operation in a **One Health approach** towards rabies control and elimination.

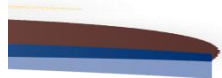


- Create a **platform** to showcase countries' **successes** towards achieving rabies control and elimination as well as any **lessons learnt** and **challenges** faced.



- Promote the **development** and **implementation** of tools for rabies control such as the **Rabies Blueprint**, **SARE**, **GEP** and the **ARACON Rabies Epidemiological bulletin** in context of **UAR**

8:00-8:20	Welcome and Introductions	<u>Prof. Louis Nel</u> Executive Director, GARC
8:20-8:40	Strengthening regional networks: The Pan-African Rabies Control Network (PARACON) experience and country centric approach	
8:40-9:00	Stepwise Approach towards Rabies Elimination (SARE) and Rabies Blueprint introduction	Ms. Anna <u>Charinna Amparo</u> Public Health Research Officer
9:00-10:30	SARE Workshop	Facilitated by: <u>Mr. Andre Coetzer</u> Mr. Terence Scott Ms. Anna <u>Charinna Amparo</u> Dr. Emily <u>Pieracci</u>
10:30-11:00	Coffee/Tea Break	
11:00-11:30	SARE Workshop	
11:30-12:30	SARE Country Prioritization and <u>Workplan</u> development	With support from: Dr. Sarah <u>Jayme</u>
12:30-13:30	Lunch	
13:30-15:00	SARE Country Prioritization and <u>Workplan</u> development	
15:00-15:30	SARE workshop discussion and feedback	
15:30-16:00	Coffee/Tea	
16:00-16:30	Global Dog Rabies Elimination Pathway (GDREP)	Dr. Emily <u>Pieracci</u> Veterinary Epidemiologist Poxvirus and Rabies Branch U.S. Centers for Disease Control and Prevention
16:30-17:00	<u>VaxCalculator</u>	
18:00	Hosted Dinner	



Time	Topic	Presenter
8:00-8:30	Recap of 1 st day	
8:30-9:30	Rabies Epidemiological Bulletin (REB)- Introduction	Mr. Terence Scott Research Consultant, GARC
9:30-10:30	REB Workshop- Data Entry	Facilitated by: Mr. Terence Scott Mr. Andre <u>Coetzer</u> With support from: Dr. Sarah Jayme Ms. Anna <u>Charinna</u> Amparo
10:30-11:00	Tea/Coffee Break	
11:00-12:00	REB Workshop- Data Entry, visualization and generating reports	
12:00-12:30	REB workshop- discussion and feedback	
12:30-13:30	Lunch	
13:30-14:00	GARC Education Platform and Education Initiatives in the Philippines	Dr. Sarah Jayme Country Representative, GARC
14:00-14:10	Lessons learned-Thailand	
14:10-14:20	Lessons learned-Philippines	Dr. Maria <u>Glovezita Lagayan</u> Veterinarian II Bureau of Animal Industry
14:20-14:30	Lessons learned- Indonesia	Dr. <u>Pebi Purwo Suseno</u> Senior Veterinary Officer Directorate of Animal Health Ministry of Agriculture
14:30-14:40	Lessons learned-Sri Lanka	Dr. <u>Kanthi Nanayakkara</u> Head, Dept. of Rabies and Vaccine QC Medical Research Institute
14:40-14:50	Lessons learned-Malaysia	Dr. <u>Vickneshwaran Muthu</u> Senior Principal Assistant Director, Disease Control Division, Ministry of Health
14:50-15:00	Overview of the ASEAN Rabies Elimination Strategy	Dr. Nguyen Thi Thanh Huong



	and its Application in Vietnam	Focal Point Person – Zoonotic Prevention and Control Ministry of Health
15:00-15:30	Coffee/Tea Break	
15:30-15:50	Open Forum	
15:50-16:05	FAO Initiatives to support rabies elimination in Asia and lessons learned	Dr. <u>Katinka de Balogh</u> Senior Animal Health and Production Officer FAO RAP
16:05-16:20	OIE Initiatives to support rabies elimination in Asia and lessons learned	Dr. <u>Pasang Tshering</u> Regional Project Coordinator OIE RRAP
16:20-16:35	WHO Initiatives to support rabies elimination in Asia and lessons learned	Dr. Richard Brown Programme Manager, Health Emergencies and AMR WHO Thailand
16:35-16:50	Way Forward and Campaigns: -United Against Rabies -End Rabies Now -World Rabies Day	Mr. Kim Doyle Chief Operating Officer, GARC
16:50-17:30	Discussion	GARC, FAO, OIE, WHO, and other stakeholders
17:30-17:40	Closing Remarks	<u>Prof. Louis Nel</u> Executive Director, GARC

THE GLOBAL STRATEGIC PLAN
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ZERO BY 30



Food and Agriculture
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Thank you!

