

Rabies OIE Twinning : how to integrate it in the regional activities?

Dr Florence CLIQUET
ANSES-Nancy laboratory (France)

Dr Mariem HANDOUS
Pasteur Institute of Tunis

Workshop régional sur l'épidémiosurveillance de la rage et la vaccination antirabique des chiens, 16 et 17 février 2021



Nancy Laboratory
for Rabies and Wildlife



WHO Collaborating Centre
for Research and Management
in Zoonoses Control



OIE
Reference Laboratory
for Rabies

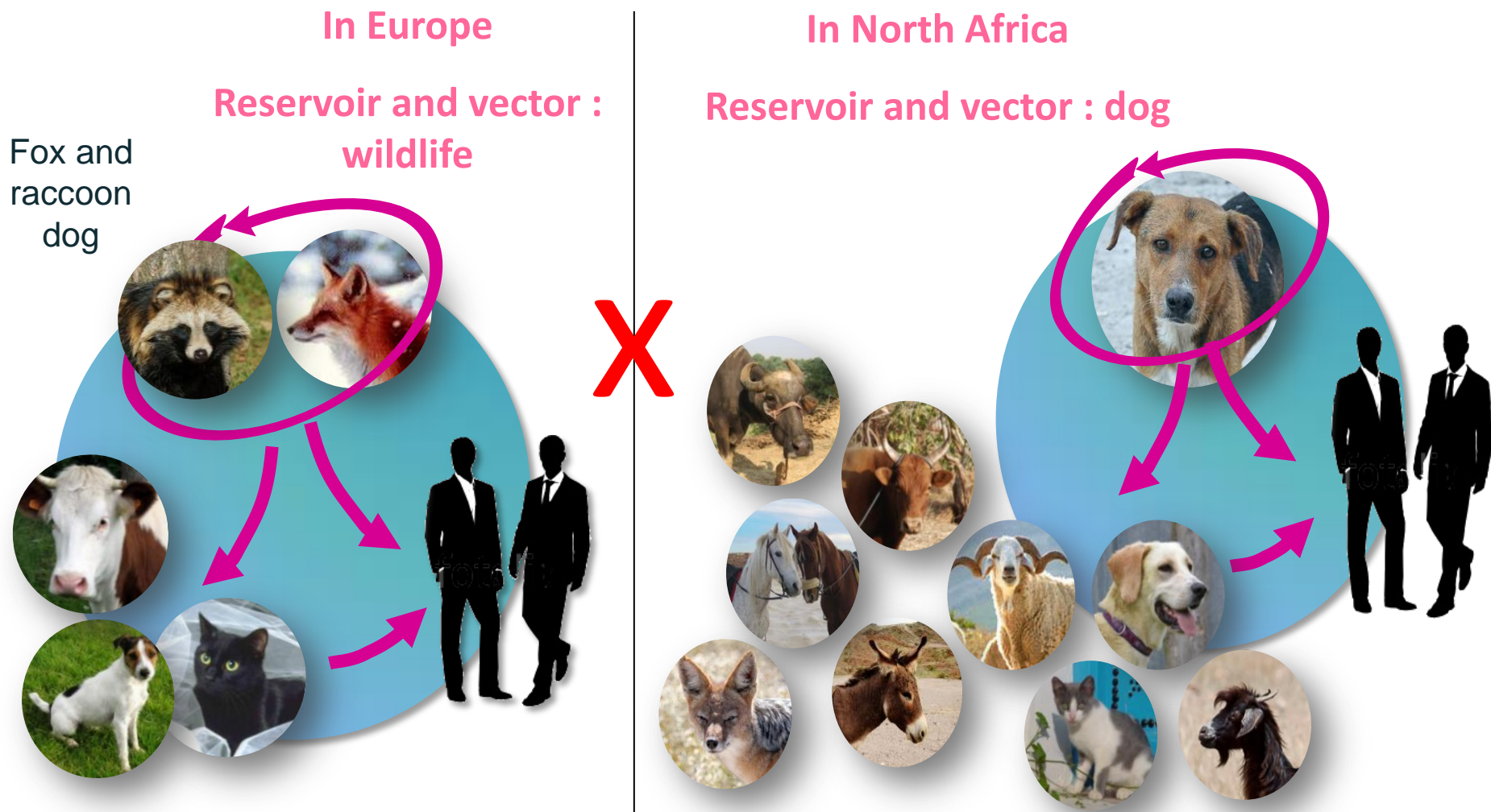


European Union
Reference Laboratory
for Rabies



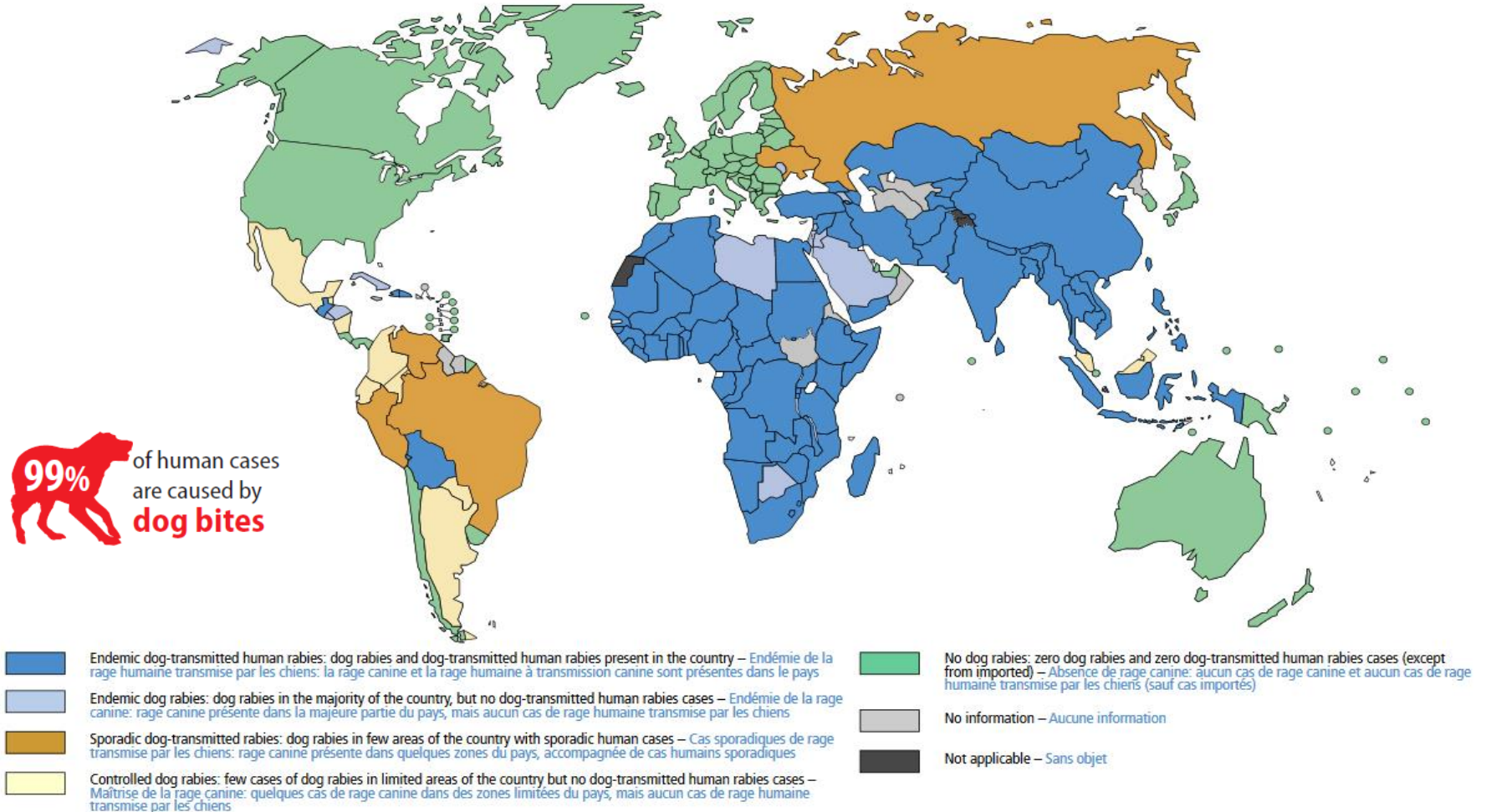
European Union
Reference Institute
for Rabies Serology

RABIES EPIDEMIOLOGY IN EUROPE AND IN NORTH AFRICA IN NON-FLYING MAMMALS



DOG-TRANSMITTED HUMAN RABIES

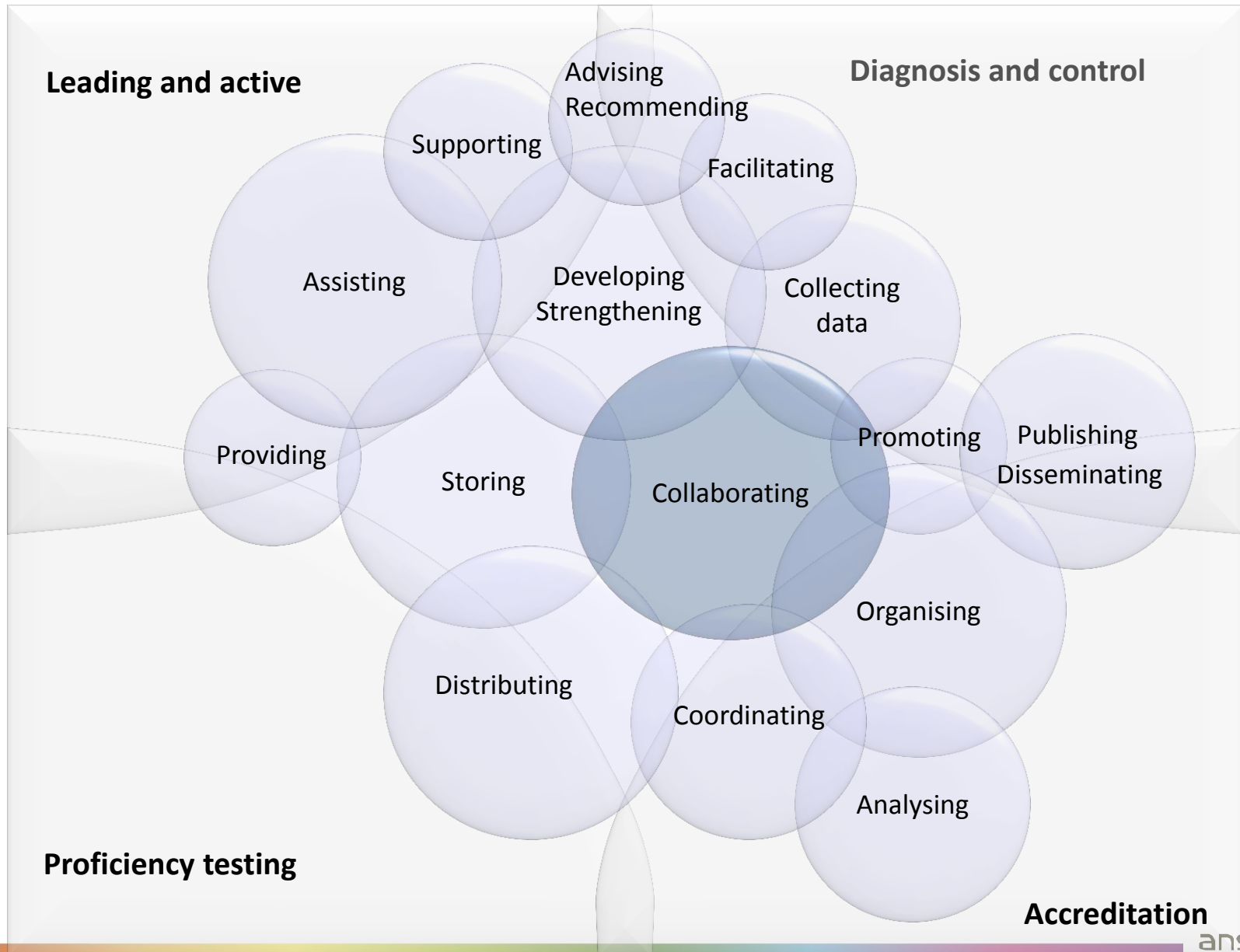
Endemicity of dog rabies and dog-transmitted human rabies, 2016
Endémicité de la rage canine et de la rage humaine à transmission canine, 2016



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement. – Les limites et appellations figurant sur cette carte ou les désignations employées n'impliquent de la part de l'Organisation mondiale de la Santé aucune prise de position quant au statut juridique des pays, territoires, villes ou zones, ou de leurs autorités, ni quant au tracé de leurs frontières ou limites. Les lignes en pointillé sur les cartes représentent des frontières approximatives dont le tracé peut ne pas avoir fait l'objet d'un accord définitif.

© WHO 2017. All rights reserved – © OMS 2017. Tous droits réservés

KEY ACTION TERMS COMMON TO OIE/WHO REFERENCE MANDATES



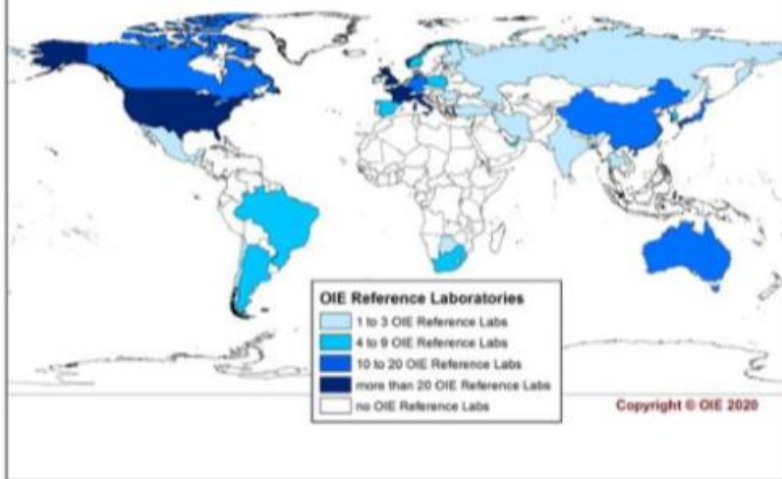
OIE REFERENCE LABORATORIES FOR RABIES

Oie WORLD ORGANISATION FOR ANIMAL HEALTH
Protecting animals, preserving our future

Oie

OIE REFERENCE LABORATORIES FOR RABIES

World Distribution of OIE Reference Laboratories



267 OIE Reference laboratories
for 118 diseases

12 OIE Reference laboratories for rabies

Collaboration between an OIE Collaborating Centre or an OIE Reference Laboratory and a Candidate Centre/Laboratory for



- Technical and scientific support
- Advice
- Training of the Candidate Laboratory
- Sharing experiences and ideas

Objectives :

- Improve global capacity for disease prevention, detection, and control,
- Improve scientific expertise,
- Strengthen national and regional laboratories capabilities,
- Create joint research opportunities, establishment of research networks and sustainable capacity building,
- For some of the Candidate Centre/Laboratories, to become OIE Reference Laboratories or Collaborating Centres for the benefit of their country and region.



TWINNING BETWEEN ANSES-NANCY (FRANCE) AND PASTEUR INSTITUTE OF TUNIS (TUNISIA) FOR RABIES



- Long and friendly collaboration of Anses-Nancy with different institutions of Tunisia since the 1990s
- Relatively good knowledge of the rabies situation in the region (in Morocco in particular) and of the constraints and advantages in the region



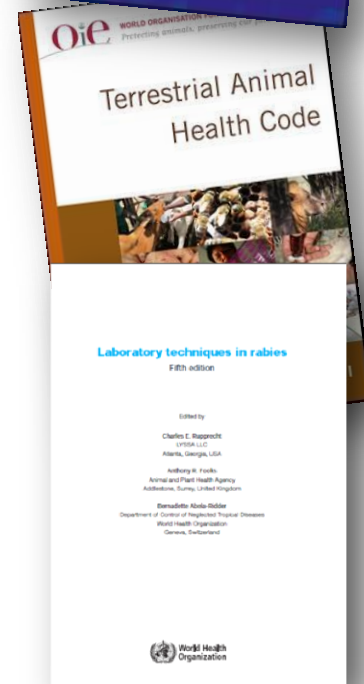
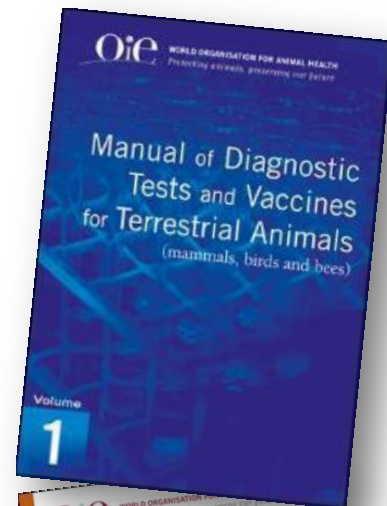
3 year Twinning project, co-financed by the OIE and by the Pasteur Institute Pasteur of Tunis

WORK PROGRAMME

Activities	Objectives
Sustaining reliable rabies diagnosis	Improve molecular biology methods following OIE standards and international recommendations
Developing serological tools for assessing immunity of vaccinated pets and field dogs	<ul style="list-style-type: none">- FAVN test and ELISA- Participe to the proficiency tests organised by the rabies EURL
Strengthening and monitoring mass parenteral canine vaccination	<ul style="list-style-type: none">- Collaborate with veterinary competent authority (DGSV):- Implication of neighboring countries- Improvement of dog accessibility to vaccination- Studies on dog ecology
Acquiring ISO 17025 accreditation for rabies diagnosis and serological methods	Ensure reliable and confident results on rabies diagnosis and serology
Implementing tools for regional laboratory network	<ul style="list-style-type: none">- Organise proficiency tests for rabies diagnosis- Produce a naïve reference serum of dog origin

WORK PROGRAMME

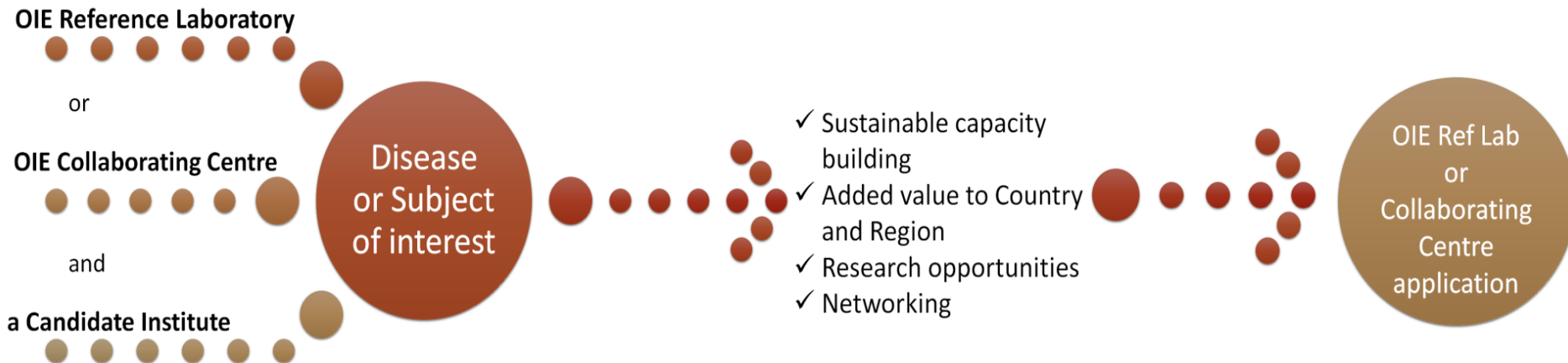
- Contribute to the tripartite One Health approach and to the objective « Zero human rabies cases by 2030 »
- Collaborate with the Istituto Zooprofilattico Sperimentale delle Venezie, FAO Reference Centre for Rabies (for proficiency tests, ERFAN project)
 - Organise proficiency tests for countries of the region
 - Improve the performance of the diagnostic detection tests
 - Provide advice and reagents for rabies diagnosis
- Share experiences with countries of the région (workshop)
 - Improve capacity laboratory for rabies diagnostic
 - Improve epidemiosurveillance
 - Increase vaccination coverage of dogs
 - Undertake in certain areas studies on dog ecology



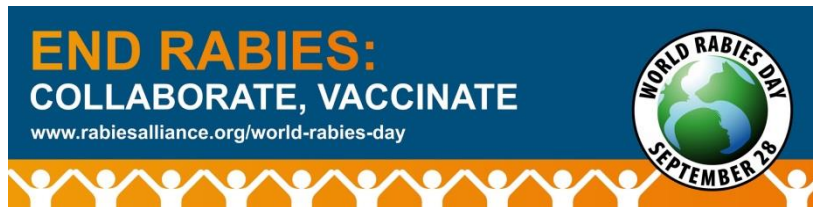
FIRST MILESTONES ACHIEVED

Activities	Results
Sustaining reliable rabies diagnosis	<ul style="list-style-type: none">- List of reagents for the different SOPs on several techniques received 😊- Training on molecular biology techniques planned initially in March 2021 at Anses and post-ponned (travel restrictions) 😞
Developing serological tools for assessing immunity of vaccinated pets and field dogs	<ul style="list-style-type: none">- Success to the proficiency test organised in 2020 by the rabies EURL. IP Tunis should be soon on the EC list of authorized laboratories for rabies serology 😊
Strengthening and monitoring mass parenteral canine vaccination	Discussions with veterinary competent authority (DGSV) started to select pilot areas for studies on dog ecology and vaccination follow up 😊
Acquiring ISO 17025 accreditation for rabies diagnosis and serological methods	Start of the process
Implementing tools for regional laboratory network	TO BE STARTED WITH YOU 💡

CONCLUSION



Source : OIE



THANK YOU FOR YOUR ATTENTION !



Acknowledgments:

OIE: M. Eloit, M. Marrana, G. Torres, P. Pozzetti, I. Contreras, R. Bouguedour, A. Ripani

ANSES: S. Elreedy, R. Genet, E. Robardet, E. Picard-Meyer, M. Wasniewski, A. Servat, E. Monchatre-Leroy, N. Henry

DGAI: L. Evain

IPT: H. Louzir, H. Kharmachi, S. BenMaiz, J. BenSalem, F. Bassalah, M. Soltani, K. Ghouili

DGSV: M. Zrelli, W. Benhammouda, A. Mkaouer, R. Khorchani, E. Brouer, M. Bennour

florence.cliquet@anses.fr

mariem.handous@pasteur.tn