

EuropeAid140314/DH/SER/Multi – SANTE/2018-G-046 EU

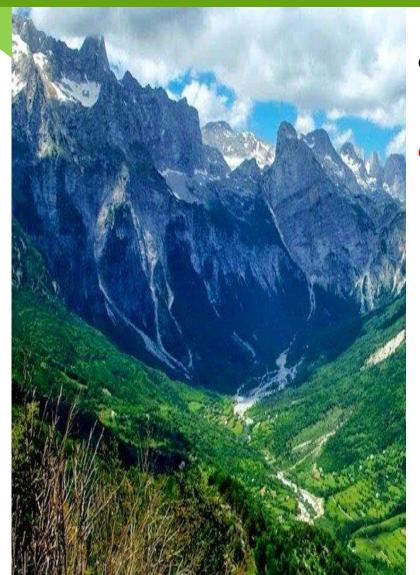
Regional action on animal disease eradication in the Western Balkans (ADEWB) Project

**Rabies activities** 

Third Meeting of the Standing Group of Experts on Rabies in Europe (SGE RAB3)

Toni Kirandjiski – Team Leader Florence Cliquet – ADEWB Rabies expert Virtual meeting • 13 December 2021

# Content



- Basic project information
- Specific rabies activities

## Basic information

## **≻**Project Title

Regional action on animal disease eradication in the Western Balkans (ADEWB)

> Financing and Contracting Authority

European Union / EC – DG SANTE and DG NEAR

> Procurement reference No

EuropeAid140314/DH/SER/Multi – SANTE/2018-G-046 EU

### **≻**Contractor

Agriconsulting Europe SA (AESA) in consortium with Istituto Zooprofilattico Sperimentale della Lombardia e dell'Emilia Romagna (IZSLER)



# Basic information

### > Project stakeholders

Veterinary competent authorities

Farmers, traders and other stakeholders involved in animal production and trade

**Beneficiary** countries





# Overall objective:

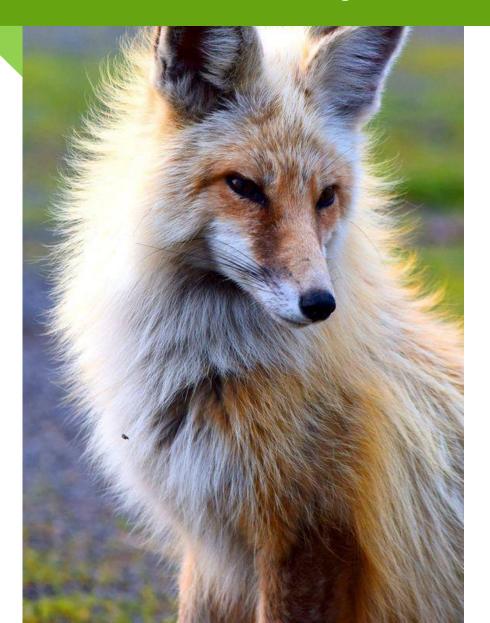
To control and eradicate important animal diseases in the Western Balkans, in particular those diseases that continue to be a threat to EU Member States.

To establish a solid cross border cooperation platform with the veterinary services in neighbor countries and EU Member States.

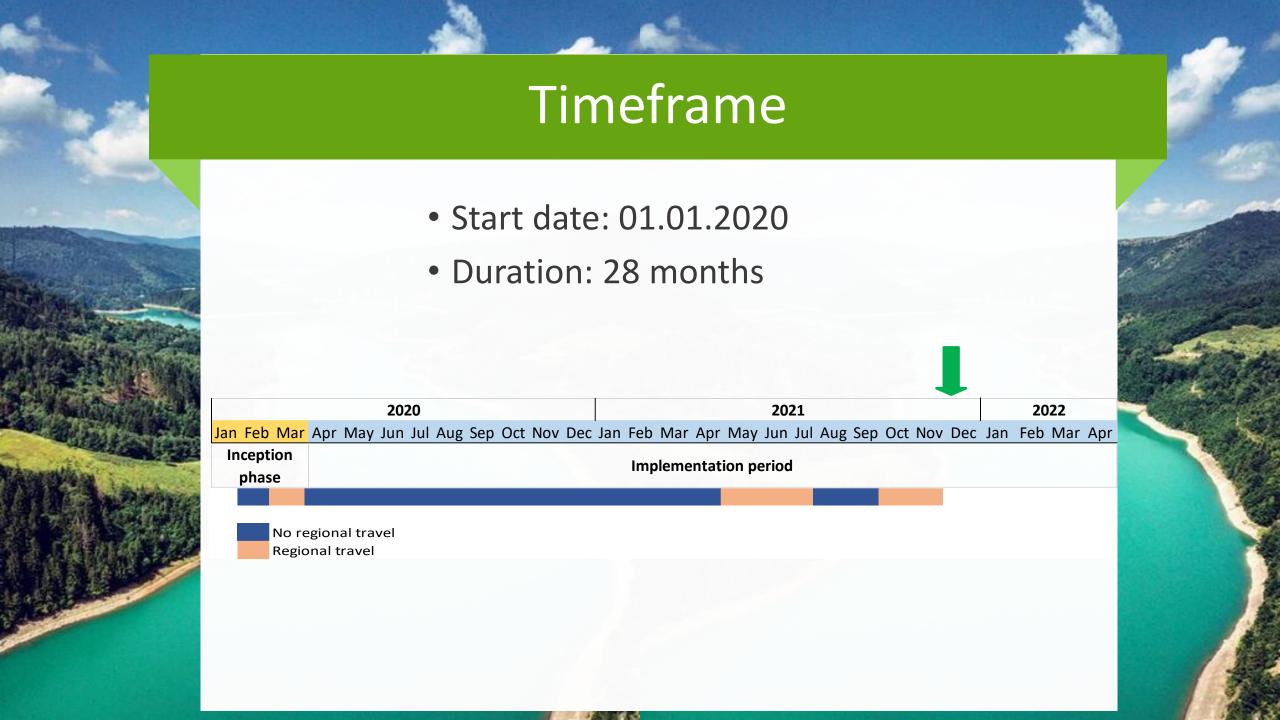
To improve the access of agriculture products from the Western Balkans to the internal market and to non-EU countries markets.



# Project target animal diseases



- Rabies
- Classical Swine Fever
- African Swine Fever
- Lumpy Skin Disease
  - Bluetongue
  - Avian Influenza
- Peste des petit ruminants
  - Sheep pox and goat pox

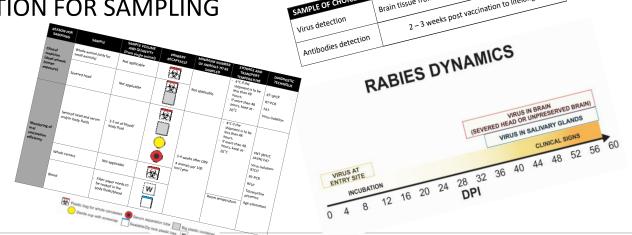


# **SOP** for sampling https://www.adewb.eu/a1-3-sops/ **GENERAL GUIDELINES** Biosafety and biosecurity protocols during sampling General Principles For Sample Packaging And Transportation Labeling Rabies virus dynamics Storage and transportation 2 – 3 weeks post vaccination to lifelong SPECIFIC INSTRUCTION FOR SAMPLING

Serum separation tube contains a gel that separates the clot from the serum in whole blood specimens. During centrifugation, the gel moves to create a barrier between cells and serum, providing access to the serum for various chemistry, serology and other procedures.

Sterile cup with screw cap of different sizes – Primary receptacles for single specimen (blood from hunted foxes or body fluids).

Sealable/ Zip lock bag of different sizes – Primary receptacles for single specimen (filter paper for collection of blood or body fluids).



# Strengthen lab network

### **➤** Main conclusions

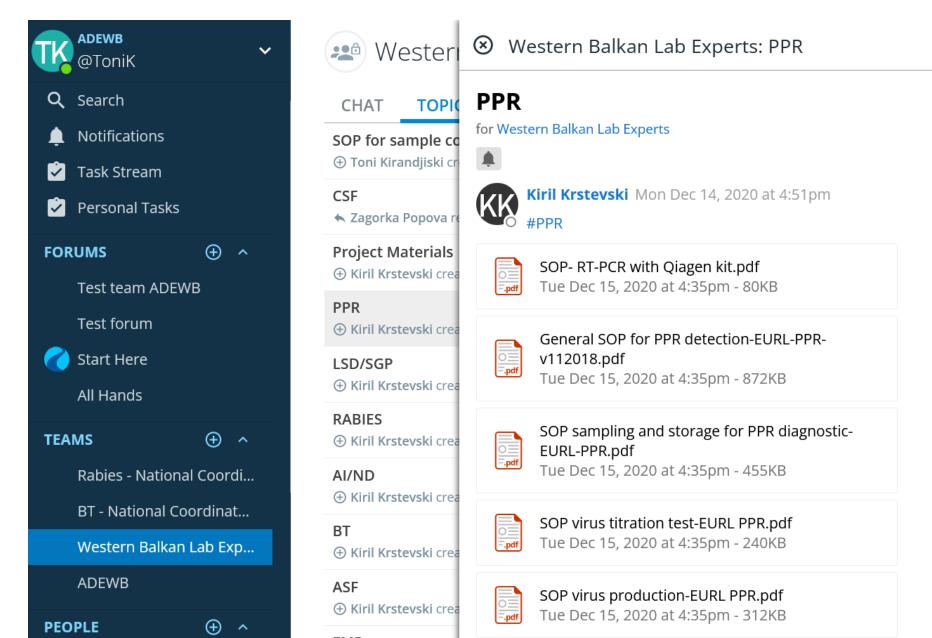
- ➤ All national laboratories have implemented at least one diagnostic method for virus confirmation
- Four national laboratories have sufficient capacities for confirmation according to international standards (at least two independent methods for virus confirmation) which are also confirmed with PTs with EU RL
- Three national laboratories have implemented all diagnostic procedures in accordance with international standards

		DIRECT VIRUS DETECTION				
		FAT	VI	rt-RT- PCR	RT- PCR	Seq
Protocol implemented?		yes	No	No	No	No
Aligned with EU/OIE standards?	9	yes				
Used in PTS testing?	KOSOVO	No				
Accredited?	5	No				
Protocol implemented?	0	yes	No	No	No	No
Aligned with EU/OIE standards?	MONTENEGRO	yes				
Used in PTS testing?		yes				
Accredited?	INO	No				
Number of tests per year? Protocol implemented?	Š	400 yes	yes	No	No	No
Aligned with EU/OIE standards?	Ι	yes	yes			
Used in PTS testing?	ALBANIA	yes	yes			
Accredited?	ALE	No	No			
Protocol implemented?	٧	yes	yes	yes	yes	yes
Aligned with EU/OIE standards?	INO	yes	yes	yes	yes	yes
Used in PTS testing?	CED	yes	yes	yes	yes	No
Accredited?	N. MACEDONIA	yes	yes	No	No	No
Number of tests per year?	ż	200	20	10	N*	<b>0</b> *
Protocol implemented?		yes	yes	yes	yes	yes
Aligned with EU/OIE standards?	SERBIA	yes	yes	yes	yes	yes
Used in PTS testing?		yes	yes	yes	yes	No
Accredited?		yes	yes	No	No	No
Number of tests per year?		200	10	5000		
Protocol implemented?		yes	yes	yes	yes	yes
Aligned with EU/OIE standards?	⊴	yes	yes	yes	yes	yes
Used in PTS testing?	BOSNIA	yes	yes	yes	yes	yes
Accredited?	B	yes	yes	No	No	No
Number of tests per year?		200	0	0	0	0

DIRECT VIRUS DETECTION

ANTIBODY DETECTION
ELISA
yes
yes
No
No
yes
yes
yes
yes
400 yes
yes
yes
No
yes
yes
yes
No 15
yes
yes
yes
yes
1000
yes
yes
yes
yes
10-15

## Strengthen laboratory network - <a href="https://adewb.ryver.com">https://adewb.ryver.com</a>





# Regional WB CVO Forum for Communication and Cooperation

- ➤ Meeting in July 2021 in Petrovac Montenegro
  - The CVOs of the WB countries agreed to set up a joint Regional WB CVO Forum for Communication and Cooperation
  - ➤ Protocol for operation was agreed
  - Rabies and bluetongue regional control were discussed and recommendation were given
- First meeting of the WB CVO Forum in Sarajevo (November 2021)
  - ➤ Initiate the functioning and the first meeting
  - ➤ Chair (CVO of BiH) and Co-chair (CVO of MK) were agreed
  - ➤ Bilateral meetings were organized
  - ➤ Next meeting in March in North Macedonia



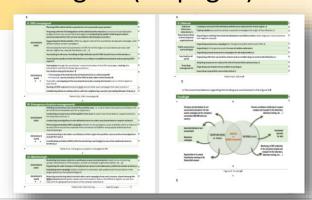
## Regional strategy

 Conduct on line meetings with representatives of the six beneficiary countries (December 2020)

 Assess the current approach in the beneficiary countries for rabies control as well as regional aspects

Propose a coherent strategy for rabies control with emphasis on a regional approach

Produced document:
Coherent strategy for rabies
control in the Western Balkan
Region (37 pages)





# **Background**

#### Surveillance

- Very low level
- Lack of detailed data
- Lack of epidemiological expertise

#### **FINDINGS SUGGEST** Data reporting

A neglected priority given to rabies

Poor dissemination to international bodi Rabies seems not under good constraint limited to the series only)

#### **Vaccination monitoring**

- Globally insufficient (sampling below the recommended size, uneven location)
- Lack of epidemiological expertise



#### **ORV** campaigns

Conducted in case IPA funds available; no coordination in the region (within 10 years, campaigns done in all WB two times only)

meetings)

- No emergency vaccination procedure in case of resurgence of the disease
- Mountain areas should be vaccinated (> 2000m)



# Regional approach and collaboration with EU, key of the success

# Rabies is a trans-boundary disease Political and administrative borders are not barriers to rabies spread

- Limited geographical size of the beneficiary countries (219.000 km²)
- High number of borders
- Rabid foxes are able to move outside their territories (20-60 km/year)
- Countries are all close to rabies elimination

A regional approach means that all countries must have harmonized principles and methods for the surveillance and elimination of rabies

Development of a formal, long-term and sustainable collaboration supported by OIE, EC and FAO



# National pre-requisites for achieving rabies elimination: Framework and advocacy

### Organization in each beneficiary country

- Political prioritization
- Stability in the institutional framework and chain of command, agile and fluid, with all roles clearly defined and known at both national and local levels
- Nomination of a coordinator
- National Committee for Rabies Control
- Budgets from EU delegations and each country clearly secured for several years thanks to close cooperation between EU delegations and national competent authorities





# Importance of coordinators and network of regional coordinators

#### **National coordinator**

- Responsible of all activities related to rabies in the country:
  - Organizing passive surveillance
  - Planning, organizing and implementing ORV
  - Organizing monitoring of vaccination
  - Organizing meetings of the National Committee for Rabies Control
  - Collecting epidemiological data
  - Evaluating control measures
- Technical authority to take decisions or to refer for decisions to be taken rapidly

# Regional network of national coordinators

- Exchanging regularly on surveillance data (monthly basis)
- Exchanging immediately for any positive case
- Organizing regular meetings (at least one every six months)
- Organizing an annual meeting (annual assessment, discussing shortcomings, deciding possible mitigation measures, etc...)



# First meeting of the Western Balkan national coordinators for rabies control

#### Held on line on 20 October 2021

- Each WB country has nominated a national coordinator
- <u>...</u>

- Exchanges on rabies activities in progress
- Exchanges on several initiatives tested to improve the sample size of passive surveillance
- Proposal that the chair of the meeting rotate by country every 6 months

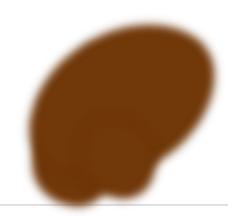


Reasonable hope these meetings will be regularly organized as well as regular information exchanges



# Key recommandations

- 1. Rabies passive surveillance
- 2. Public awareness
- 3. Oral vaccination programmes
- 4. Rabies outbreak management
- 5. Trainings of involved stakeholders
- 6. Vaccination monitoring
- 7. Vaccination of pets
- 8. Stray dog management
- 9. Evaluation of control programme

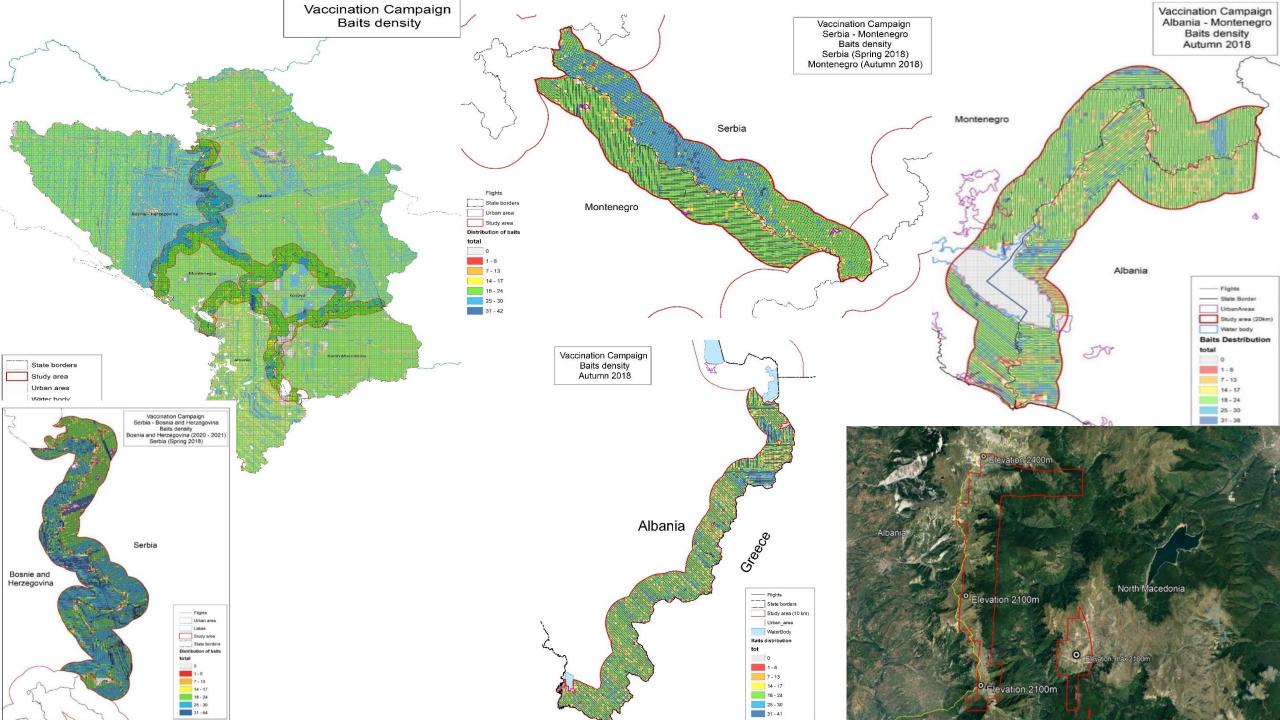




## Rabies surveillance

### Most important improvements needed in each country

	Organizing regular trainings of all national and local professionals (stakeholders, hunter associations				
	and veterinary inspectors) on passive surveillance.				
NATIONAL side	Organizing regular awareness campaigns for the general public focusing particularly on rabies surveillance by using different means available (written press, radio, Internet, posters, etc).  Organizing the collection of animals found dead in the field to the laboratory; in particular, arranging with road authorities the collection of road-killed animals throughout all the country.				
	Identifying clearly the samples collected in the field, as well as the type of sampling: passive surveillance <i>versus</i> monitoring.  Increasing collaboration with the EURL for rabies (for support for typing for example, trainings,				
	etc).				
	Evaluating the programme on a very regular basis.				
REGIONAL	<b>Organizing regular meetings</b> (at least one every six months) within the network to exchange data and to share experiences. These meetings could be chaired by different countries on a rotational basis.				
side	Organizing awareness campaigns for all stakeholders of the control programme.				
Side	Exchanging on a monthly basis surveillance data among the WeB network.				
	Demonstrating the activities, discussing shortcomings and agreeing on mitigation measures during				
	an annual Coordination meeting.				





## Oral rabies vaccination programmes (1/2)

Proposal to conduct 4 consecutive years of ORV in each country, with two vaccinations per year

Prerequisite

Absolute need to

improve the passive surveillance in all the region

- This 4-year period is short, as it includes a 2-year period after the last case is recorded
- Objective to eliminate rapidly the infection and to maintain a sufficient vaccination coverage of fox population (around 70%) until rabies elimination is achieved



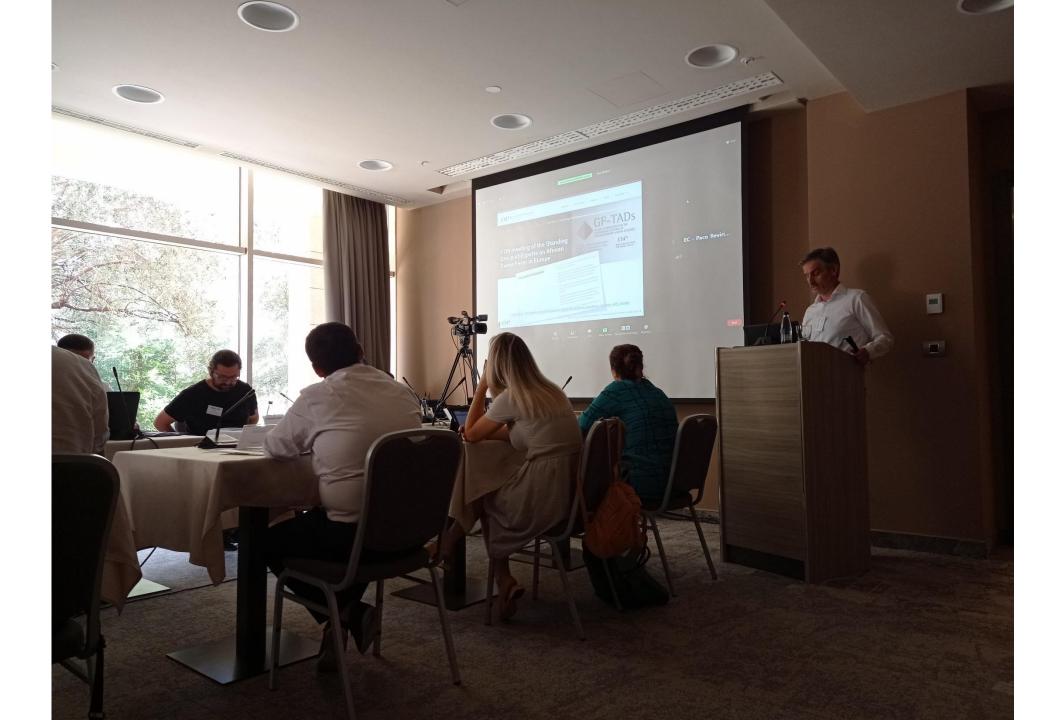


## Conclusion



- Regional situation in the Balkans has improved thanks to ORV since years 2010. WBs started very rapidly using ORV in the 2010s.
- ORV alone is not sufficient to guarantee the free status of a country. The use of ORV without indicators of success (surveillance data) is not cost-benefit.
- Efforts for surveillance are absolutely required in the final phase for effectively eliminating the last foci.
- A regional approach with harmonized principles and methods for the surveillance and elimination of rabies and regular exchanges of information is required for sustainability of the freedom status.
- Giving to rabies control and surveillance a political priority and securing long term funding are crucial to achieve sustainable rabies elimination.

At a crucial moment close to elimination, time is now to promptly improve rabies control and surveillance all together







# Thank you for your attention



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