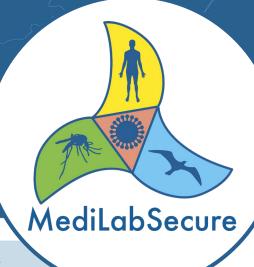


A One Health network to prevent emerging biological risks increased by environmental and climate change in the Mediterranean, Black Sea and Sahel regions



June 11th, 2024

Institut Pasteur,

Vanessa Lagal

MediLabSecure Coordination team
Operations - Department of International Affairs
Institut Pasteur

















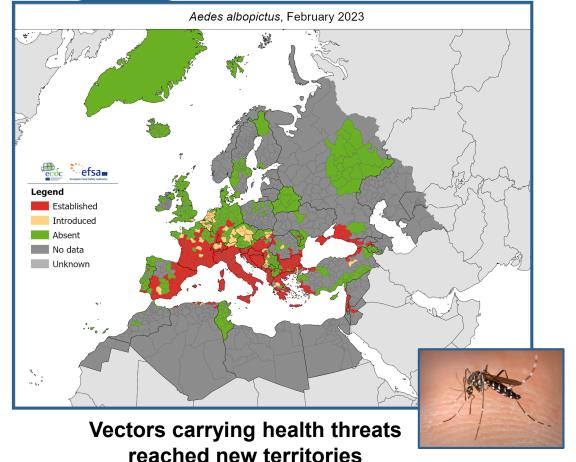








RATIONALE





Environmental modifications, climate change & Movement Globalisation

Increase the likelihood of disease emergence and spread





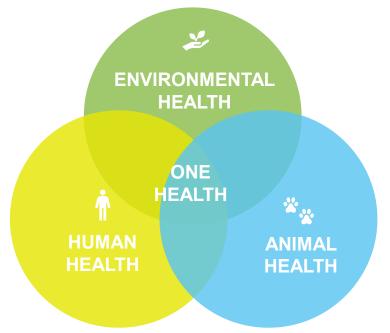
Growing concerns regarding vector-borne diseases whose geographical distribution and incidence are increasing

These pathogens circulate at the human-animal-environment interface posing a greater risk of diseases emergence in both humans and livestock with major economic and health consequences



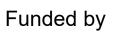
NEEDS

- > Advocate for the importance to monitor vector-borne diseases
- > Strenghten surveillance capacities
- > Promote integrated actions between human, animal and environmental health sectors





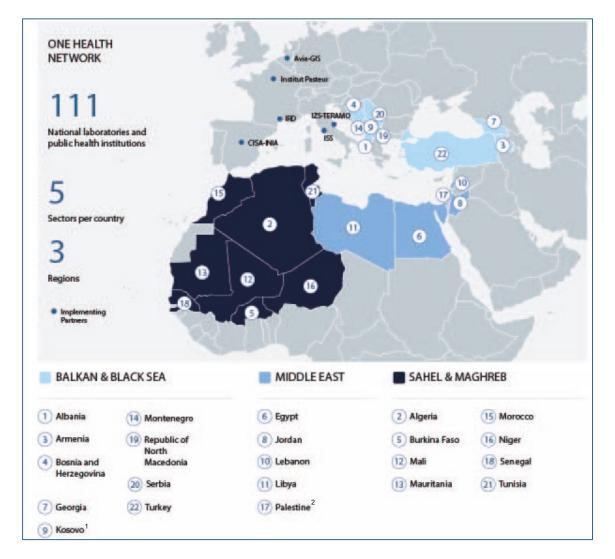
A One Health Network







22 EU neighboring countries from Balkan & Black Sea, Middle East, North Africa and Sahel regions



- → 5 complementary sectors/country
 - Human virology
 - Animal virology
 - Medical entomology
 - Public Health
 - Veterinary Services
- Representing 111 national reference laboratories and public health institutions
- Gathering +200 multidisciplinary experts

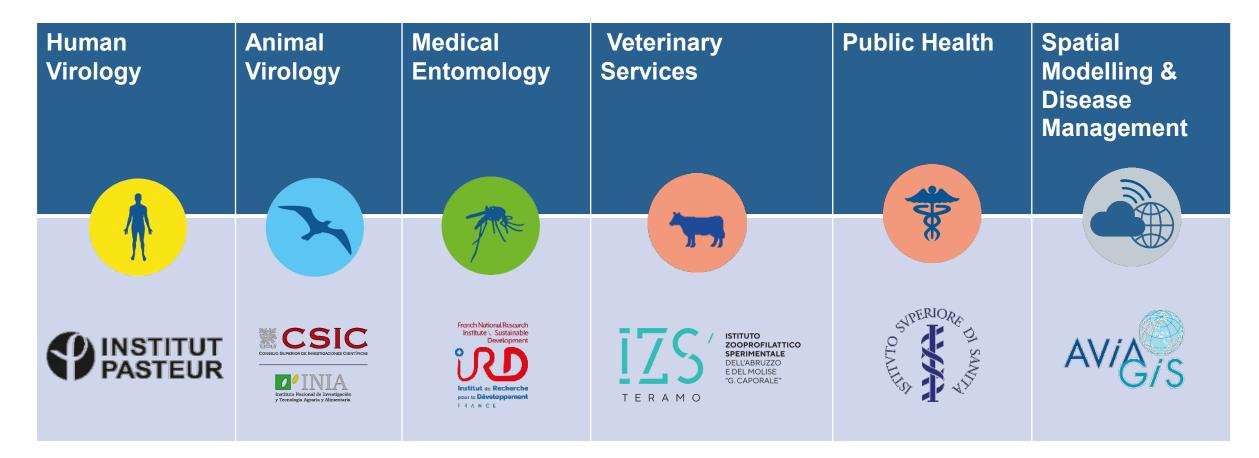
¹This designation is without prejudice to positions on status and is in line with UNSCR 1244 and the ICJ Opinion on the Kosovo Declaration of independence

² This designation shallnot be construed as recognition of a State of Palestine and is without prejudice to the individual positions of EU Member States on the issue



CONSORTIUM

6 European partners, experts in their field, collaborate to promote a One Health Approach



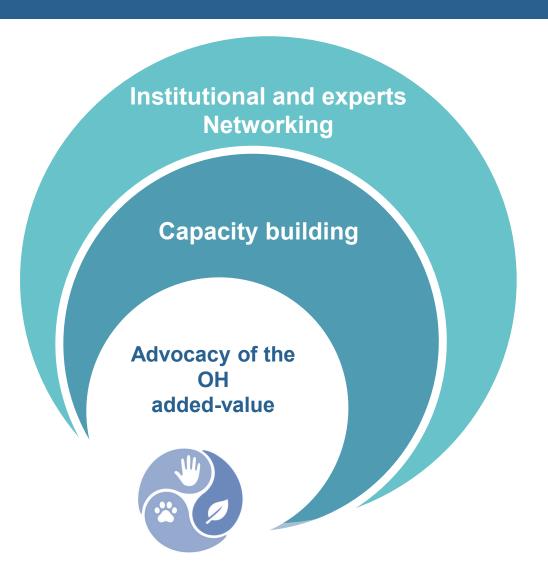






OBJECTIVE

Strengthen coordinated surveillance and preparedness capacities to viral vector-borne diseases





ACTIONS & OUTPUTS FROM 10 YEARS

ONE HEALTH PREPAREDNESS & RESPONSE

Strengthen pathogen detection and genomic surveillance, vector surveillance and control, modelling and risk prediction

Trainings
+890 participants







25 EQAs program

05
Vector identification tools



ONE HEALTH AWARENESS

Networking and promotion of the OH added value

Global & regional meetings
+550 participants

ONE HEALTH SURVEILLANCE, RISK ASSESSMENT & EARLY WARNING

06



Multisectoral exercises

+175 participants

02



Strategic Documents

Production of recommendations

to improve the operationalization of the One Health approach in surveillance systems Based on OH situational analysis in 5 pilot countries



OUTCOMES FROM 10 YEARS

✓ STRENGTHENED SURVEILLANCE

Improvement or setting up of diagnostic capacities in human and veterinary labs

37-79% to diagnose a given arbovirus \rightarrow **85-100%** have the knowledge to correctly diagnose vector-borne diseases addressed by the project

- Supporting the implementation of genomic surveillance (procedures and data analysis)
- Strengthening of vector identification → vector mapping and vector control (insecticide resistance in mosquitoes)



OUTCOMES FROM 10 YEARS

✓ STRENGTHENED COLLABORATION BETWEEN SECTORS AT NATIONAL SCALE

Has MediLabSecure improved your connections with professionals from other sectors in your country?

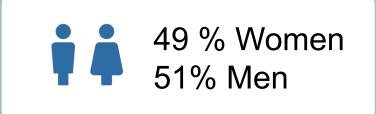


- OH Advocacy
- Establishment of OH team
 - Seroprevalence studies and gather evidence on vector borne disease threat for decision maker
 - Elaborate a national vector surveillance plan in Montenegro
- Improved multisectoral outbreak response
 - Rif Valley Fever outbreak in Mauritania (2020)



OH WORKFORCE DEVELOPMENT





41 % countries: experts trained belong to the 5 sectors

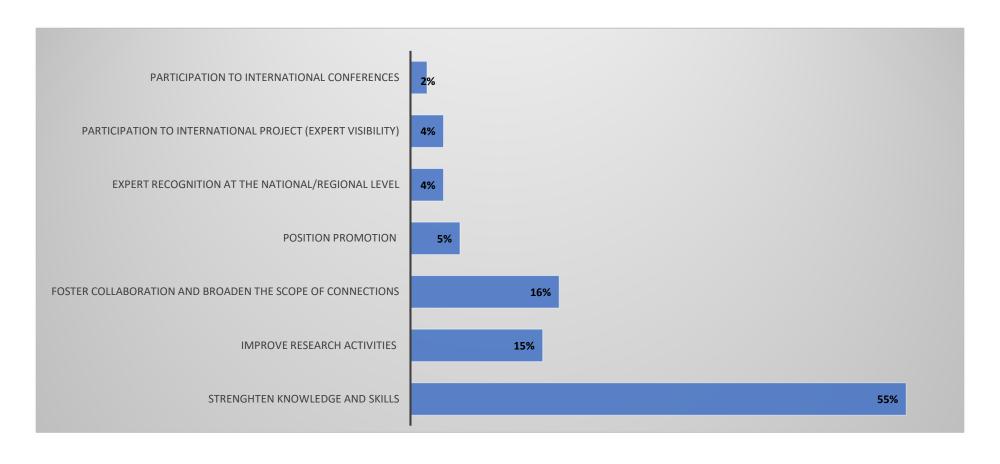
90% countries: experts trained belong to 4 sectors

25% leakage



OH WORKFORCE DEVELOPMENT

How MediLabSecure contribute to your professional career progress?



PERSPECTIVES MediLabSecure

Well established unique One Health network in 22 countries of the Mediterranean, Black Sea and Sahel regions ready for further development

- Further strengthen preparedness and response capacities to vector-borne diseases
- NGS data analysis
- Tick
- Inclusion on environmental component/ monitoring of virus circulation in wildlife
- Transfer knowledge
- Support research activities on vector-borne diseases
- > Foster members empowering by promoting local initiatives
- Support of local activities to strengthen surveillance
- Support members in transferring knowledge to decision maker to influence political engagement
- Integrate community in surveillance and control of vector-borne diseases



Visit us: https://www.medilabsecure.com

Contact us: medilabsecure@pasteur.fr