



MediLabSecure

2014-2018

OBJECTIVE

Setting up of a regional One Health reference laboratories network to reinforce viral vector-borne diseases detection, vectors identification and multisectoral collaborations

CONTEXT

Since the end of the 20th century, the world has witnessed a **rise in the number of infectious epidemics due to the disruption of the human-animal-environment interface**. Globalization (trade, animals, and humans), climate change, proliferation of industrial densely populated livestock farms and rapid urbanization offer new opportunities for the emergence and spread of diseases.

Concerns were growing about **vector-borne diseases** whose incidence and spread are affected by these above mentioned factors, allowing pathogens to re-emerge or invade new territory. This is particularly true for the **Mediterranean region, which lies at the crossroads of several continents, resulting in intense trade, tourism and migration**.

More than ever, epidemic preparedness is the cornerstone to prevent a pandemic from happening again. To address these challenges, the **CBRN Centre of Excellence launched the MediLabSecure project in 2014 to mitigate emerging biological risks in the Mediterranean region**.

PATHOGENS OF INTEREST

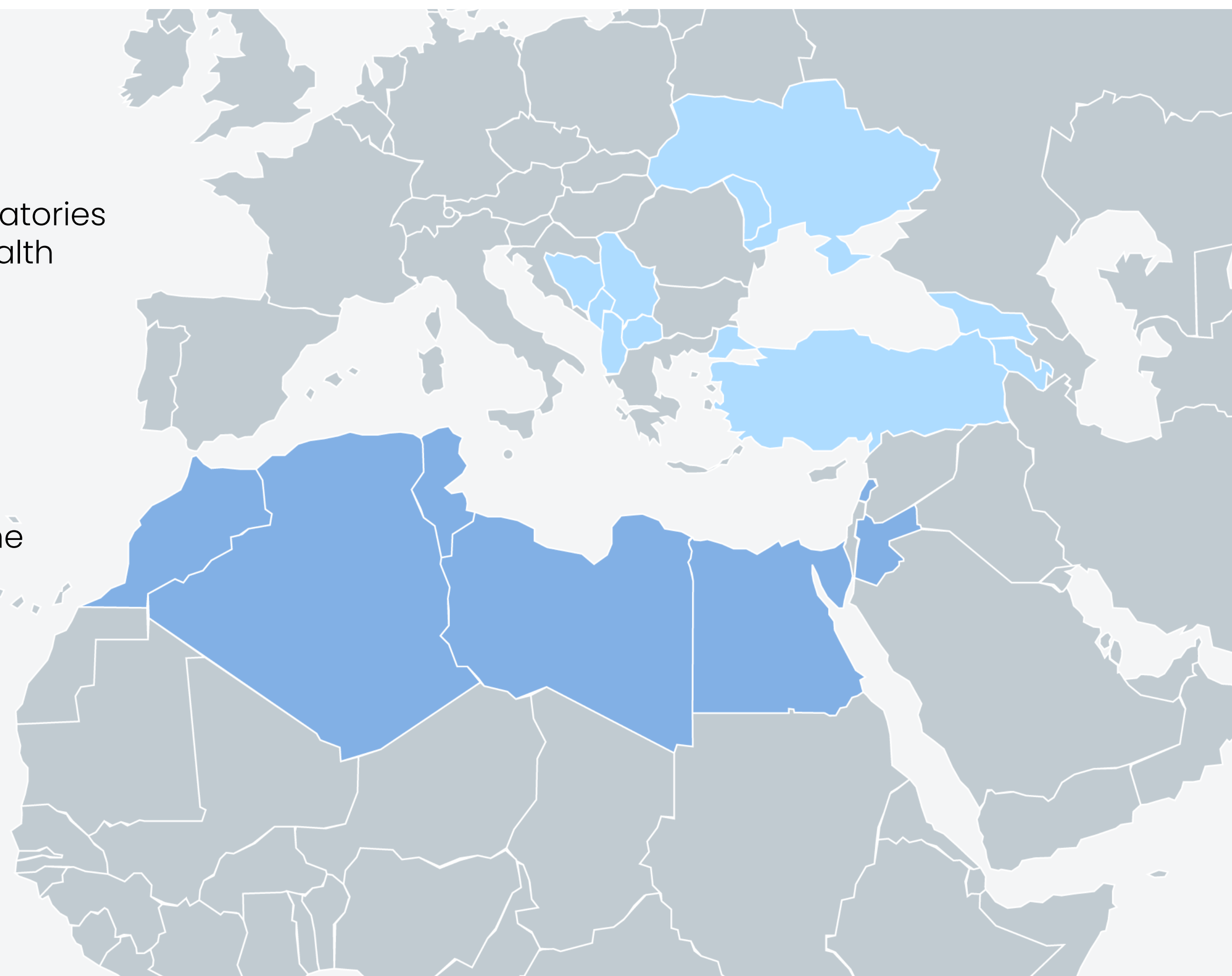
- Arboviruses transmitted by mosquitoes and ticks**
- Dengue virus
 - Zika virus
 - Yellow Fever virus
 - West Nile virus
 - Rift Valley Fever virus
 - Chikungunya virus
 - Crimean-Congo Haemorrhagic Fever virus

74

National laboratories and public health institutions

19

Countries in the network



■ BALKAN & BLACK SEA ■ NORTH AFRICA & MIDDLE EAST

EXPERTISE IN THE NETWORK

Represented by a consortium of european institutions

<p>HUMAN VIROLOGY</p>	<p>ANIMAL VIROLOGY</p>	<p>MEDICAL ENTOMOLOGY</p>	<p>PUBLIC HEALTH</p>	<p>COORDINATION</p>
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ACTIVITIES

CAPACITY BUILDING

EXPERTS & INSTITUTIONAL NETWORKING

ONE HEALTH AWARENESS

KEY FIGURES

6 EQA external quality assessment

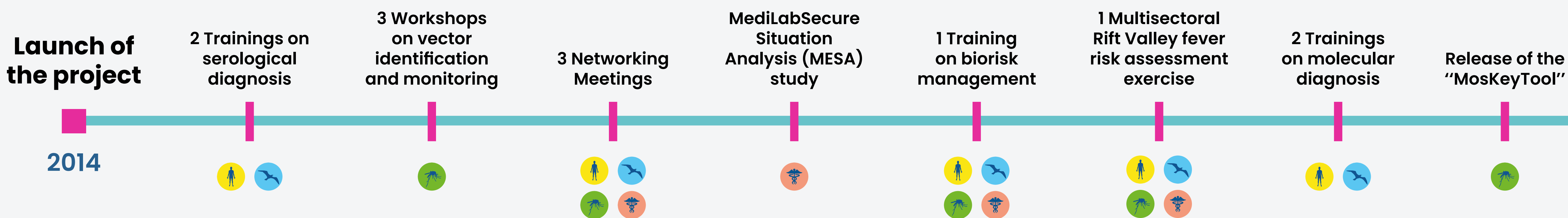
15 TRAINING PROGRAMS +150 participants

4 GLOBAL & REGIONAL MEETINGS +250 participants

1 STRATEGIC DOCUMENT BASED ON ONE HEALTH SITUATIONAL ANALYSIS in 3 pilots countries

1 MULTISECTORAL EXERCISE

EXAMPLES OF MEDILABSECURE ACTIVITIES and expertise of participating members of the network



Coordinated by



In collaboration with





MediLabSecure

2018-2022

OBJECTIVES

Consolidation of the One Health network
Multisectoral application for vector-borne disease preparedness

EVOLUTION

During this period, MediLabSecure expanded its areas of expertise with the introduction of:

- **Spatial modeling** and risk mapping in vector and vector-borne disease surveillance and control, including climate and environmental data.
- **Veterinary services** to strengthen the One Health approach involving animal health authorities.

MediLabSecure establishes a **network** with a representative institution for each of 5 complementary sectors concerned by vector-borne diseases surveillance in every targeted country.

COVID-19 PANDEMIC

As soon as the pandemic began, the consortium quickly mobilized to address the needs of the targeted countries within the network. They focused on **strengthening pandemic response capacities** in line with the project's core missions. The project supported the setup of SARS-CoV-2 and its variants' detection and improved sequencing capacities.

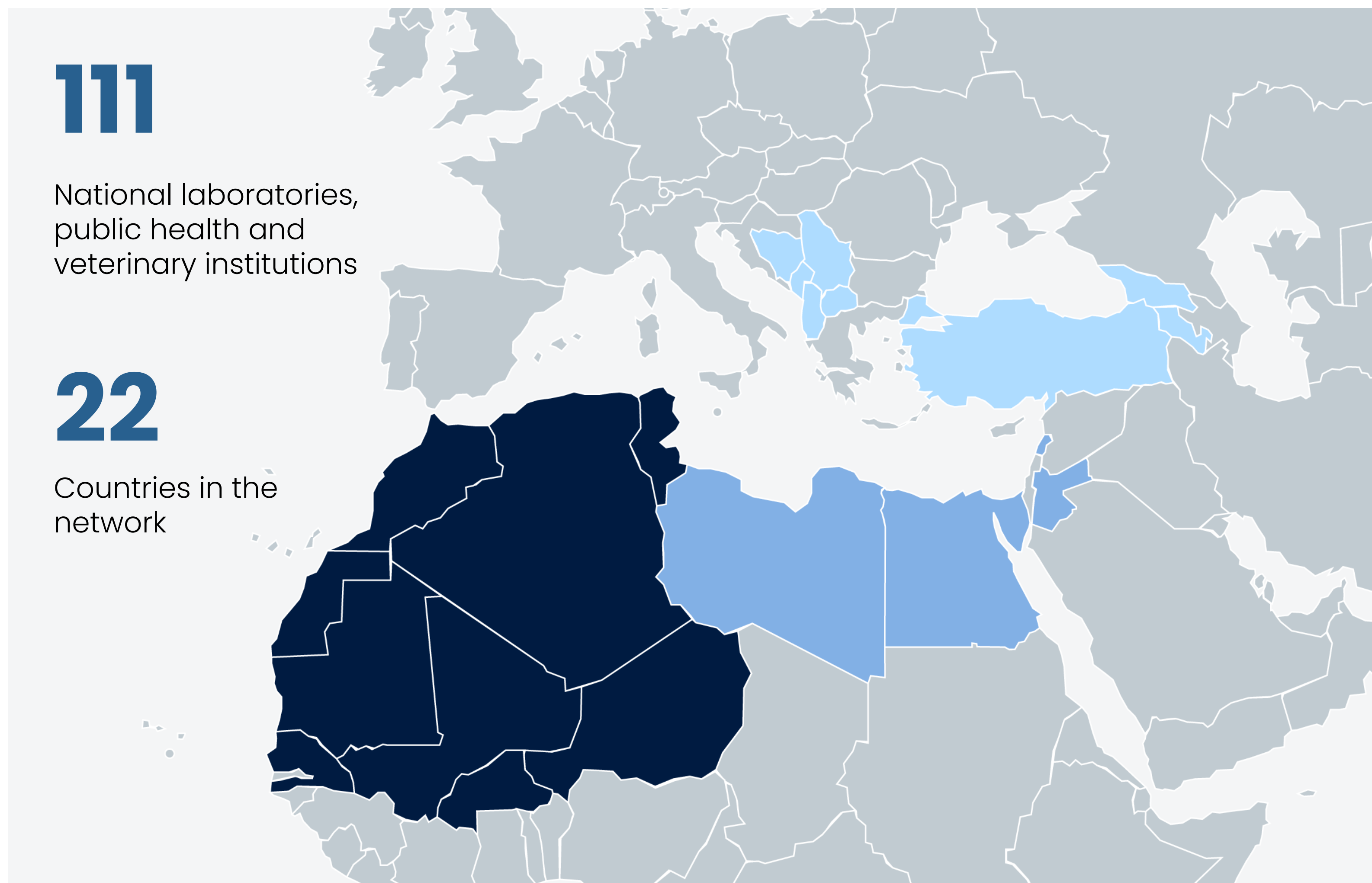
Support was quickly provided to the countries, **highlighting the value of a well-established network.**

111

National laboratories, public health and veterinary institutions

22

Countries in the network



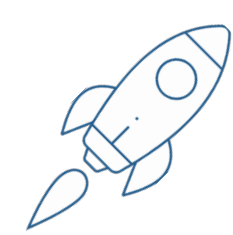
■ BALKAN & BLACK SEA ■ MIDDLE EAST ■ NORTH AFRICA + SAHEL

EXPERTISE IN THE NETWORK

Represented by a consortium of european institutions



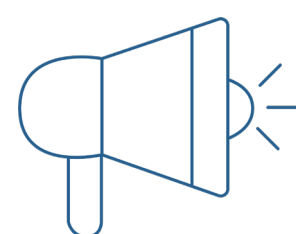
ACTIVITIES



CAPACITY BUILDING



EXPERTS & INSTITUTIONAL NETWORKING



ONE HEALTH AWARENESS

KEY FIGURES

5 EQA
external quality assessment

26 TRAINING PROGRAMS
+350 participants

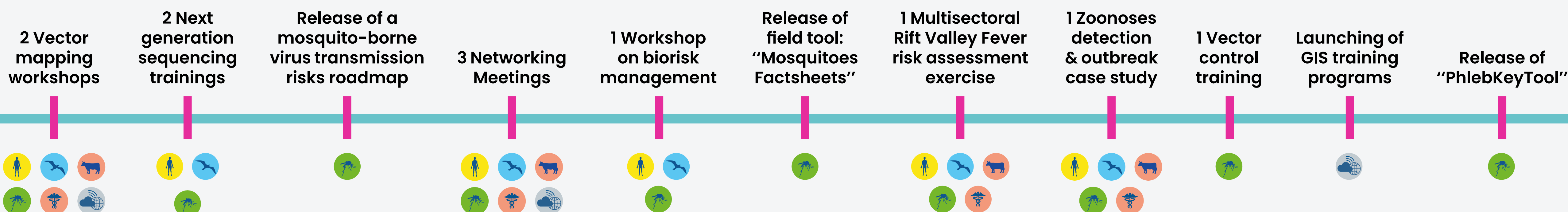
7 GLOBAL & REGIONAL MEETINGS
+300 participants

4 MULTISECTORAL EXERCISES

COVID-19 PANDEMIC: NETWORK IN ACTION

- Technical assistance, sharing of protocols and shipments of reagents
- 1 multicentric impact study to strengthen surveillance and protection capacities of healthcare workers in African health settings
- Trainings and webinars for healthcare workers on SARS-CoV-2 emergency preparedness and response
- Support to the "WHO Global Referral Laboratory for COVID-19" Africa (Institut Pasteur de Dakar)

EXAMPLES OF MEDILABSECURE ACTIVITIES and expertise of participating members of the network





MediLabSecure

2022-2024

OBJECTIVE

Sustainability of the One Health network through member empowering

A REGIONAL ONE HEALTH NETWORK

Strengthening the capacity for vector-borne disease surveillance and raising awareness of the One Health concept remain at the core of the project, with the goal of closely meeting the needs of the countries involved.

Leveraging on its successes, the project has initiated activities aiming at **fostering empowerment, membership and autonomy** to support the sustainability of the network of experts and institutions.

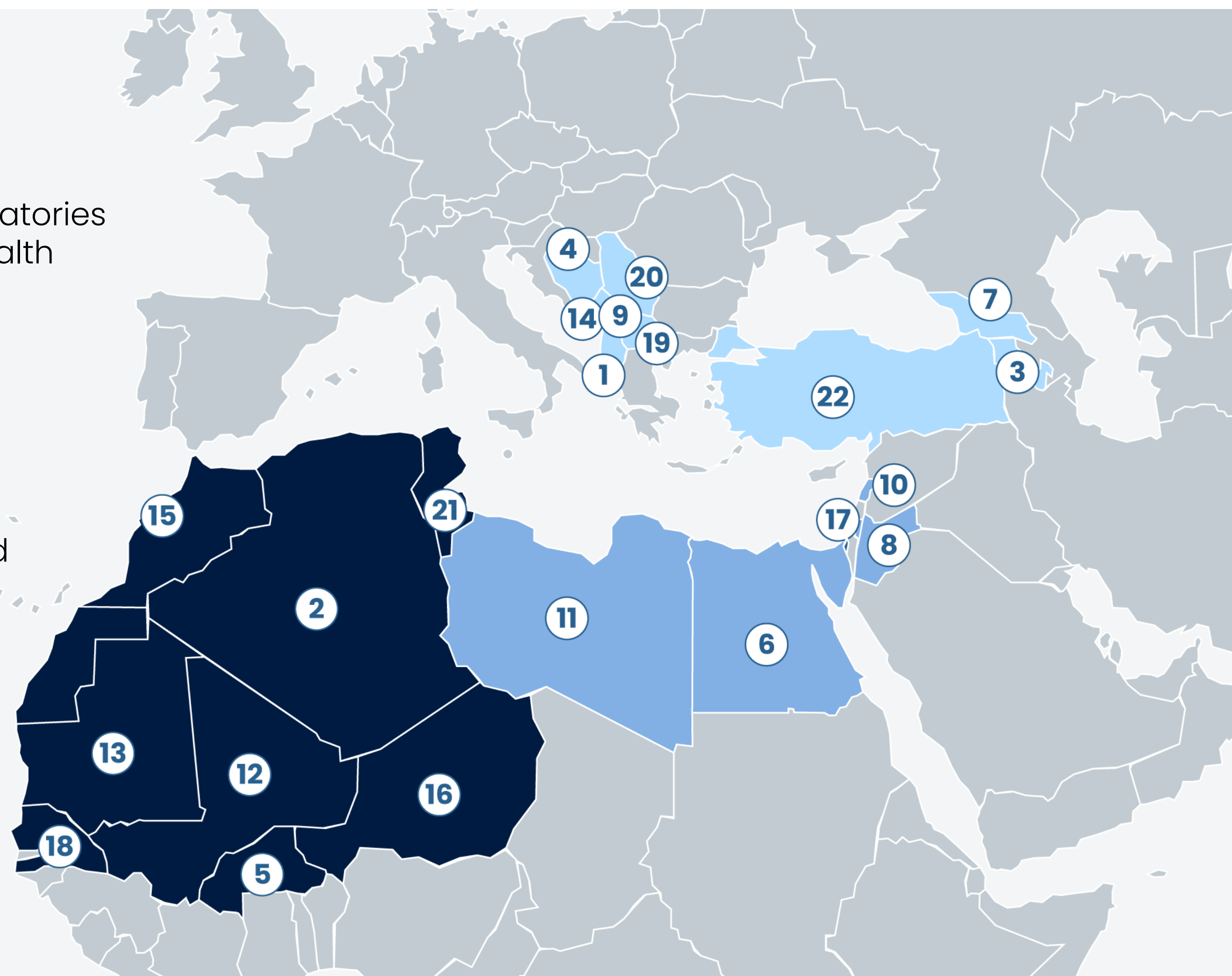
This well-established One Health network is now ready to transition to the next phase, further **supporting members' empowerment** by promoting **in-country initiatives and supporting One Health advocacy** to national stakeholders to leverage political engagement.

111

National laboratories and public health institutions

297

Experts trained since 2014



22 COUNTRIES IN THE PROJECT

BALKAN & BLACK SEA

- 1 Albania
- 3 Armenia
- 4 Bosnia & Herzegovina
- 7 Georgia
- 9 Kosovo*
- 14 Montenegro
- 19 Republic of North Macedonia
- 20 Serbia
- 22 Türkiye

MIDDLE EAST

- 6 Egypt
- 8 Jordan
- 10 Lebanon
- 11 Libya
- 17 Palestine**

NORTH AFRICA & SAHEL

- 2 Algeria
- 5 Burkina Faso
- 12 Mali
- 13 Mauritania
- 15 Morocco
- 16 Niger
- 18 Senegal
- 21 Tunisia

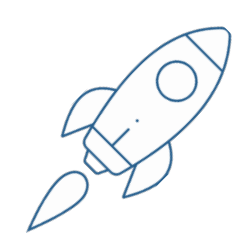
*This designation is without prejudice to positions on status and is in line with UNSCR 1244 and ICJ Advisory opinion on the Kosovo declaration of independence
**This designation shall not be construed as recognition of a State of Palestine and is without prejudice to the individual positions of EU Member States on the issue

EXPERTISE IN THE NETWORK

Represented by a consortium of european institutions

 HUMAN VIROLOGY 	 ANIMAL VIROLOGY 	 MEDICAL ENTOMOLOGY 	 PUBLIC HEALTH 	 VETERINARY SERVICES 	 SPATIAL MODELING 	 COORDINATION
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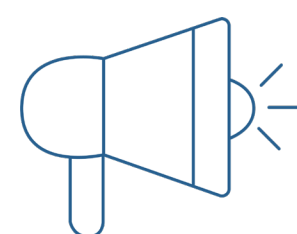
ACTIVITIES



CAPACITY BUILDING



EXPERTS & INSTITUTIONAL NETWORKING



ONE HEALTH AWARENESS

KEY FIGURES

2

EQA

external quality assessment

10

TRAINING PROGRAMS

+250 participants

7

GLOBAL & REGIONAL MEETINGS

+300 participants

1

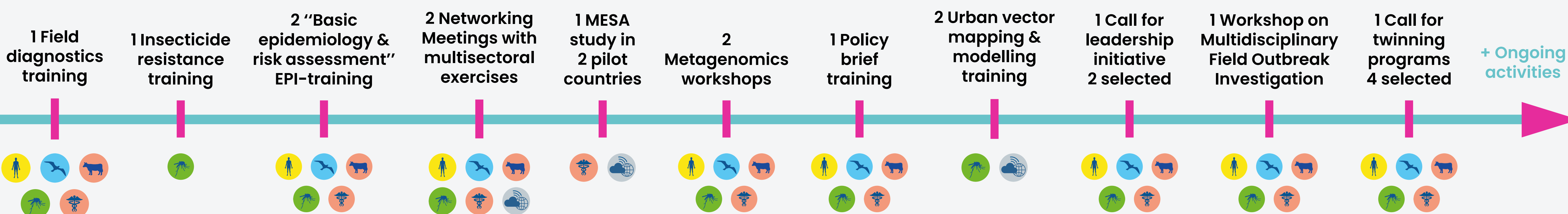
STRATEGIC DOCUMENT

BASED ON ONE HEALTH SITUATIONAL ANALYSIS in 2 pilots countries

1

MULTISECTORAL EXERCISE

EXAMPLES OF MEDILABSECURE ACTIVITIES and expertise of participating members of the network



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