

www.asset-scienceinsociety.eu



## MediLabSecure

Maria Grazia Dente and Silvia Declich National Center for Global Health Istituto Superiore di Sanità

#### The ASSET FINAL EVENT

Share and move for mobilization and mutual learning at local, national and international levels on Science in Society related issues in epidemics and pandemics Rome, 30-31.10.2017



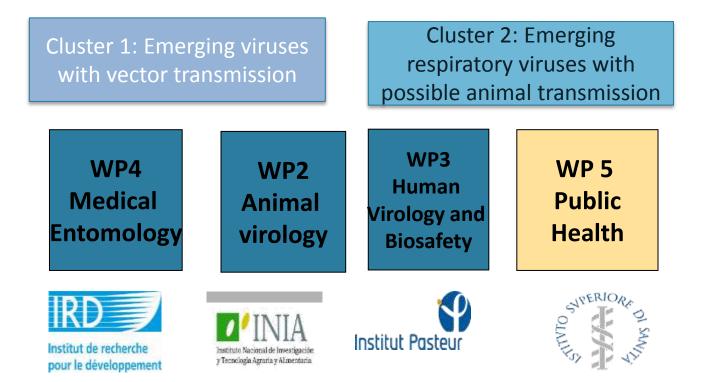
co-funded by the EU. GA: 612236

and the second se

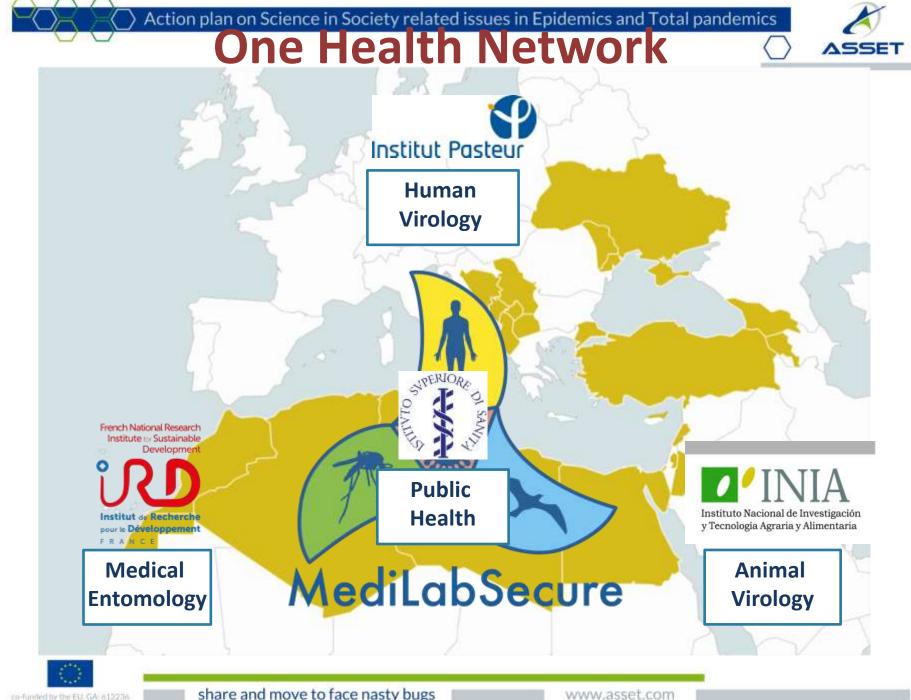
ASSET Action plan on Science in Society related issues in Epidemics and Total pandemics



MediLabSecure aims at increasing the health security in the Mediterranean and Black Sea Regions by enhancing and strengthening the *preparedness* to common health threats.



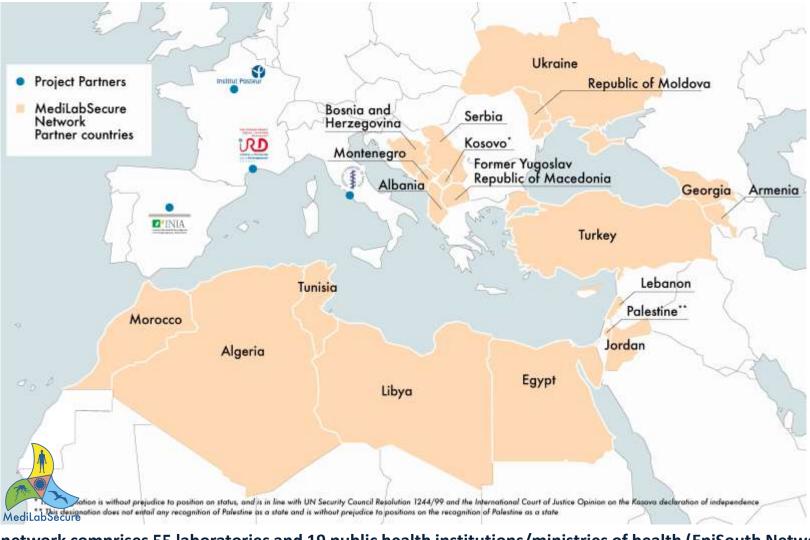




share and move to face nasty bugs

Action plan on Science in Society related issues in Epidemics and Total pandemics

### **The Network**



### The network comprises 55 laboratories and 19 public health institutions/ministries of health (EpiSouth Network) of 19 non-EU countries in the Mediterranean and Black Sea regions.



share and move to face nasty bugs





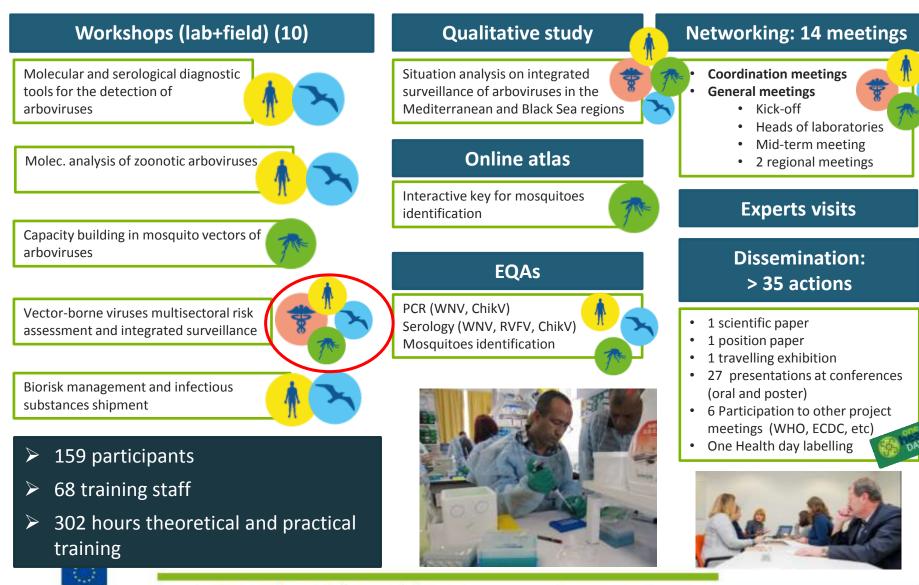
......the desired impact of the One Health approach expected through intersectoral integration can only be achieved if also the capacities of each involved sector are sufficiently strong and developed (Häsler B, Gilbert W, Jones BA, Pfeiffer DU, Rushton J, Otte MJ. The economic value of One Health in relation to the mitigation of zoonotic disease risks. Curr Top Microbiol Immunol. 2012;365:127–51).

MedilabSecure is working with a comprehensive strategy addressing both the capacity of the single sector and the intersectoral integration.



### **Main activities**





co-funded by the EU, GA: 612236

share and move to face nasty bugs



## Public Health Group Aim

Public health activities reinforce the preparedness of MediLabSecure Network by strengthening: *integrated surveillance, multisector risk assessment and early case detection* of arboviral diseases in the framework of *One Health*.





## Public Health Group Activities

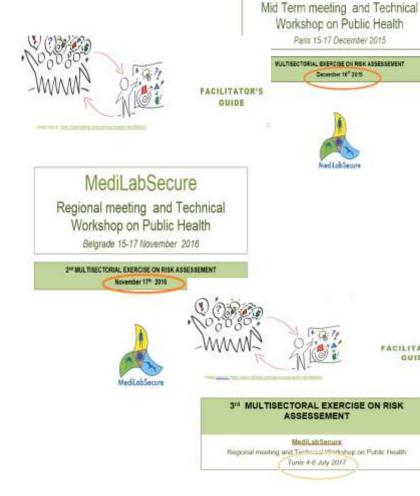
- Integrated Surveillance
  To identify criteria to define integrated surveillance and to compare different systems:

   A Scoping Review
   A Survey with Medilabsecure members
   A Situation analysis in the Mediterranean and Black Sea Regions
  - Integrated Risk Assessments





- To foster small group discussion on the status of priorities arboviruses in the region and to assess level of risks at country level
- To enhance knowledge on multisector Risk Assessment (RA) for:
- West Nile Virus disease (1<sup>st</sup> exercise, Paris 2015)
- Crimean-Congo Haemorrhagic Fever (2<sup>nd</sup> exercise, Belgrade 2016)
- Rift Valley Fever (3rd exercise, Tunis 2017)
- To make the participants aware of available RA methodologies and tools:
- the ECDC Tool for RA for WNV (1<sup>st</sup> exercise, Paris 2015)
- the ECDC guidance on Rapid RA (2<sup>nd</sup> exercise, Belgrade 2016)
- FAO RA methodology (3<sup>rd</sup> exercise, Tunis 2017)











MediLabSecure



### main results: 1° exercise - WNV

The exercise involved 73 participants divided in 6 small groups by country according to regional proximity:

Groups	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6
Name	Black Sea 1	Black sea 2	North Africa	Balkans 1	Balkans 2	Middle East
N. Participants	9	8	14	11	14	17
Countries	Moldova, Ukraine	Armenia, Georgia	Algeria, Morocco, Tunisia, Egypt	Albania, Bosnia- Herzegovina, Kosovo	Montenegro, Serbia, R. Macedonia	Palestine, Turkey, Jordan, Lebanon





### main results: 1° exercise - WNV

Each participant was asked to identify the risk area that is mostly representative of his/her country on a wall poster using sticky dots (dots' colour according to the sector) using the following table from the ECDC tool:

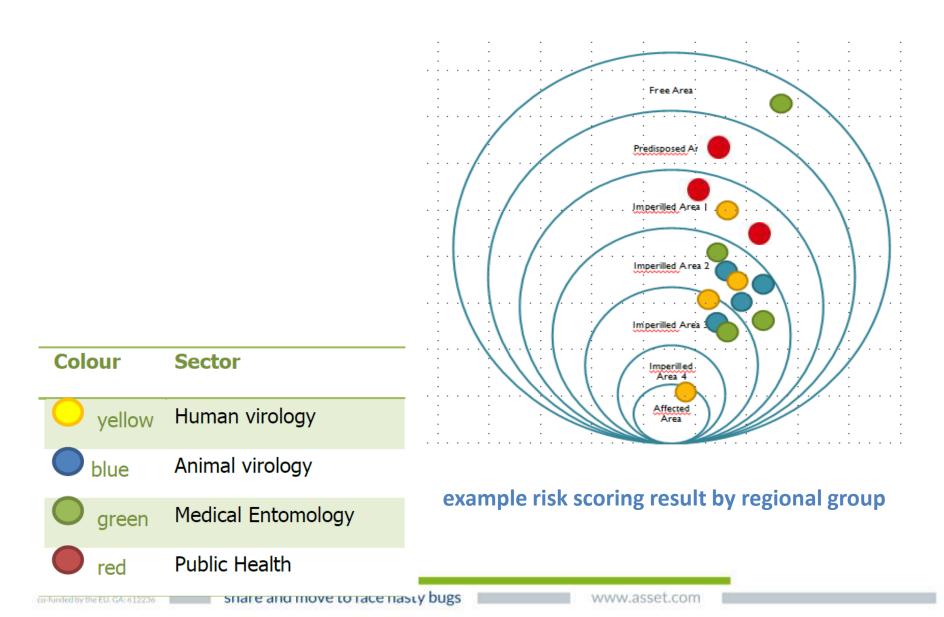
Corresponding risk area	Risk level	Description
Free area	0	No historical circulation of WNV
Predisposed area	1	Ecological conditions suitable for WNV circulation but no historical circulation of WNV
Imperilled	2	Past evidence of WNV circulation
	3a	Evidence of WNV circulation in mosquitoes or birds in the second part of the current season (August-September-October)
	3b	Evidence of WNV circulation in mosquitoes or birds in the first part of the current season (May-June-July)
	4	WNV-specific IgM detected in local non-vaccinated horse(s) or WNV isolated from a local horse.
Affected	5	Detection of at least one human case according to the EU case definition.





ASSET

### main results: 1° exercise - WNV





main results: 2° exercise - CCHF

# The exercise involved 42 participants divided in 3 small groups by country :

Groups	Group 1	Group 2	Group 3
N.	18	15	9
Participants			
Countries	Serbia	Georgia	Montenegro
	Albania	Armenia	Turkey
	Former	Moldova	Bosnia and
	Yugoslav	Kosovo	Herzegovina
	Republic of	Ukraine	
	Macedonia		

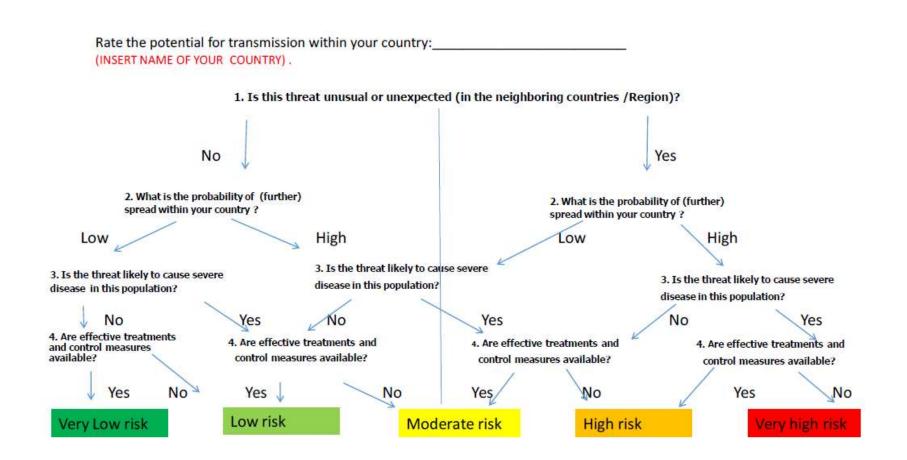


Action plan on Science in Society related issues in Epidemics and Total pandemics



### main results: 2° exercise - CCHF

Annex 3. Algorithm for RRA



Modified from European Centre for Disease Prevention and Control. Operational guidance on rapid risk assessment methodology. Stockholm: ECDC; 2011.

co-hunded by the EU. GA: 612236

share and move to face nasty bugs



### main results: 2° exercise - CCHF

Level of risk assessed	Added value of multi-sector approach for each of the questions of the assessment				
(Low/medium/high)	(Low/medium/high)				
	1. Is this threat unusual or unexpected? (high 10/11)	2. What is the potential for transmission within your country? (high 9/11)	3. Is it likely to cause severe disease in the population? (high 6/11)	4. Are effective treatments and control measures available? (high 5/11)	5. Are there contextual factors that may affect the risk assessment? (high 10/11)
Group 1					
Low	high	high	medium	low	high
Moderate	high	high	high	low	high
Moderate	high	high	medium	low	high

Group 2					
Low	high	high	high	high	high
Low/Moderate	high	high	medium	medium	high
Moderate	high	high	High	medium	high
Moderate/high	high	medium	high	high	high
Moderate/high	high	high	high	high	high

Group 3					
Low	high	high	high	medium	medium
Moderate	medium	medium	medium	high	high
Moderate	high	high	medium	high	high
share and	move to face nast	y bugs	www.asset.c	om	





main results: 3° exercise - RVF

# The exercise involved 44 participants divided in 3 small groups by country :

Groups	Group 1	Group 2	Group 3
N. Participants (excluding facilitators)	13	15	16
Countries	Morocco Algeria Tunisia	Libya Egypt Tunisia	Jordan Lebanon Palestine Tunisia

<sup>[1]</sup> Being the Meeting in Tunisia, Tunisia was "over represented" in the groups. In fact 19 Tunisian referents were involved in the Exercise out of the 44 total participants





### main results: 3° exercise - RVF

### **Risk Assessment Questions:**

**Q.1.a** Which risk factors affect the occurrence, persistence and spread of RVF infection in Africa and other *areas with a history of RVF infection or outbreak?* 

**Q.1.b** Which risk factors affect the spread of RVF infection into *new areas*?

**Q.2** Which *preparedness measures* could be put in place to reduce the risk of RVF virus infection in Africa and other at risk areas?

**Q.3** Which **prevention and control options** can be put in place to reduce the impact of RVF spreading?

**Q.4.a** What is the risk of RVF virus infection *introduction to* your country in the next 3–5 years?

**Q.4.b** What is the risk of the RVF virus *persisting and spreading* once introduced into your country ?





### main results: 3° exercise - RVF

### Added value of the multisector approach:

Almost all the countries considered that doing the assessment with a multisector approach had a high added value for the questions 1 (a. and b.), 2, and 3. In other words, the replies to the question 1, 2 and, 3, were highly facilitated by the concomitant presence of different sectors (human, animal and entomological) at the assessment. This has ensured a comprehensive discussion aimed at filling gaps and decreasing uncertainty.

**Q.1.a** Which risk factors affect the occurrence, persistence and spread of RVF infection in Africa and other *areas with a history of RVF infection or outbreak?* 

Q.1.b Which risk factors affect the spread of RVF infection into *new areas*?

**Q.2** Which *preparedness measures* could be put in place to reduce the risk of RVF virus infection in Africa and other at risk areas?

**Q.3** Which **prevention and control options** can be put in place to reduce the impact of RVF spreading?





Risk assessment exercises: lessons learned

- Valorisation, dissemination and utilisation of available methodologies and tools on RA should be promoted at national level also to evaluate the appropriateness of these methodologies and tools in national contexts
- Multisector RA fosters discussion between the different sectors involved in the surveillance of arboviruses and enhances awareness on reciprocal roles, expertise and procedures
- Sectors coordination/collaboration contributes to the assessment of the risks especially in case of lack of relevant documentation and updated information





### **Thanks for your attention!**









#### The MediLabSecure Project is supported by the European Commission (DEVCO: IFS/21010/23/\_194)



share and move to face nasty bug

