




# ONE HEALTH SURVEILLANCE

Andrea Gervelmeyer  
Biological Hazards and Animal Health  
and Welfare (BIOHAW) Unit

# DIRECT GRANT & EFSA ONE HEALTH SURVEILLANCE MANDATE

 Ref. Ares(2022)1571037 - 03/03/2022



EUROPEAN COMMISSION  
DIRECTORATE-GENERAL FOR HEALTH AND FOOD SAFETY

Director General

Brussels  
SANTE.G2/FB/sc (2022)1052752

**Subject: Request for scientific and technical assistance for a coordinated surveillance system under the One Health approach for cross-border pathogens that threaten the Union**

Dear Dr Url,

I would like to submit a formal request to European Food Safety Authority (EFSA) for scientific and technical assistance on developing, and keeping updated, a coordinated surveillance methodology in animals and the environment under the One Health approach to be performed by the Member States. The results of this surveillance should

**CP 22-04.01 Direct grants to Member States' authorities: setting up a coordinated surveillance system under the One Health approach for cross-border pathogens that threaten the Union**

## POLICY CONTEXT

Many of the important infectious diseases affecting humans that have emerged recently, such as COVID-19, Ebola and the human immunodeficiency virus diseases, are thought to be zoonotic. Scientific literature estimates that approximately 60% of all human pathogens are



Brussels, 14.1.2022  
C(2022) 317 final

ANNEX I

ANNEX I

to the

Commission Implementing Decision

of 14.1.2022

*on the financing of the Programme for the Union's action in the field of health ('EU4Health Programme') and the adoption of the work programme for 2022*

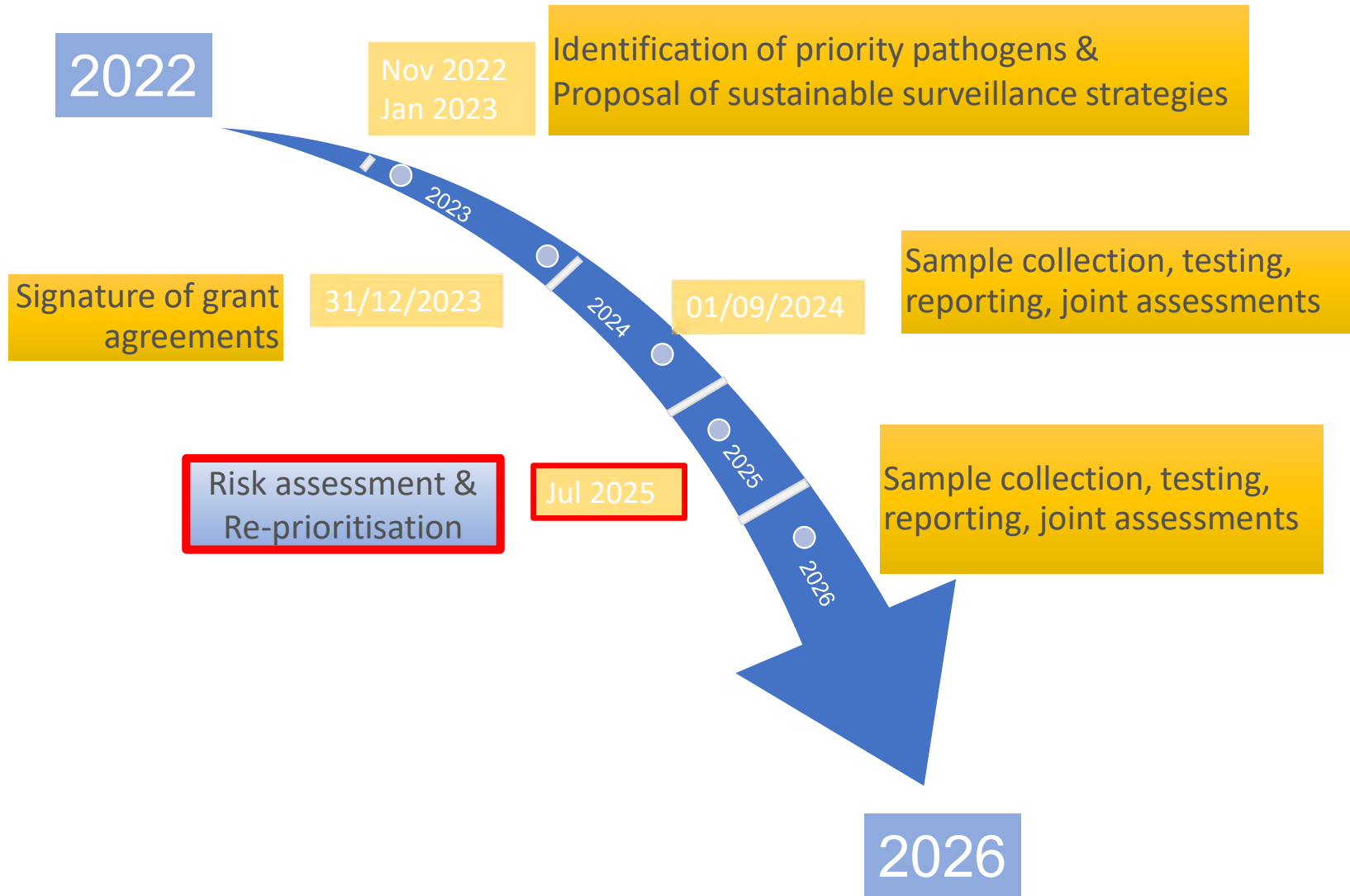
## GRANT OBJECTIVE & EFSA'S TERMS OF REFERENCE

### Early detection of cross-border threats to public health in animals and environment

- Identify main zoonotic risks to be targeted
- Propose options for sustainable surveillance strategies
- Provide data model and data collection tool
- Make surveillance results available to MS, stakeholders
- Use surveillance data for risk assessment and re-prioritisation



# One Health surveillance timeline



## APPLICATIONS FOR ONE HEALTH SURVEILLANCE DIRECT GRANTS

- 23 MSs applied
- 9 applications
  - 7 mono-beneficiary grants
- 2 multi-beneficiary grants (5 MSs, 11 MSs)

ES  
HR  
IE  
IT  
NL  
PT  
SI

AT, CZ, GR, HU, SK

DK, BE, DE, EE, FI, LT, LV, LV, NO, PL, SE

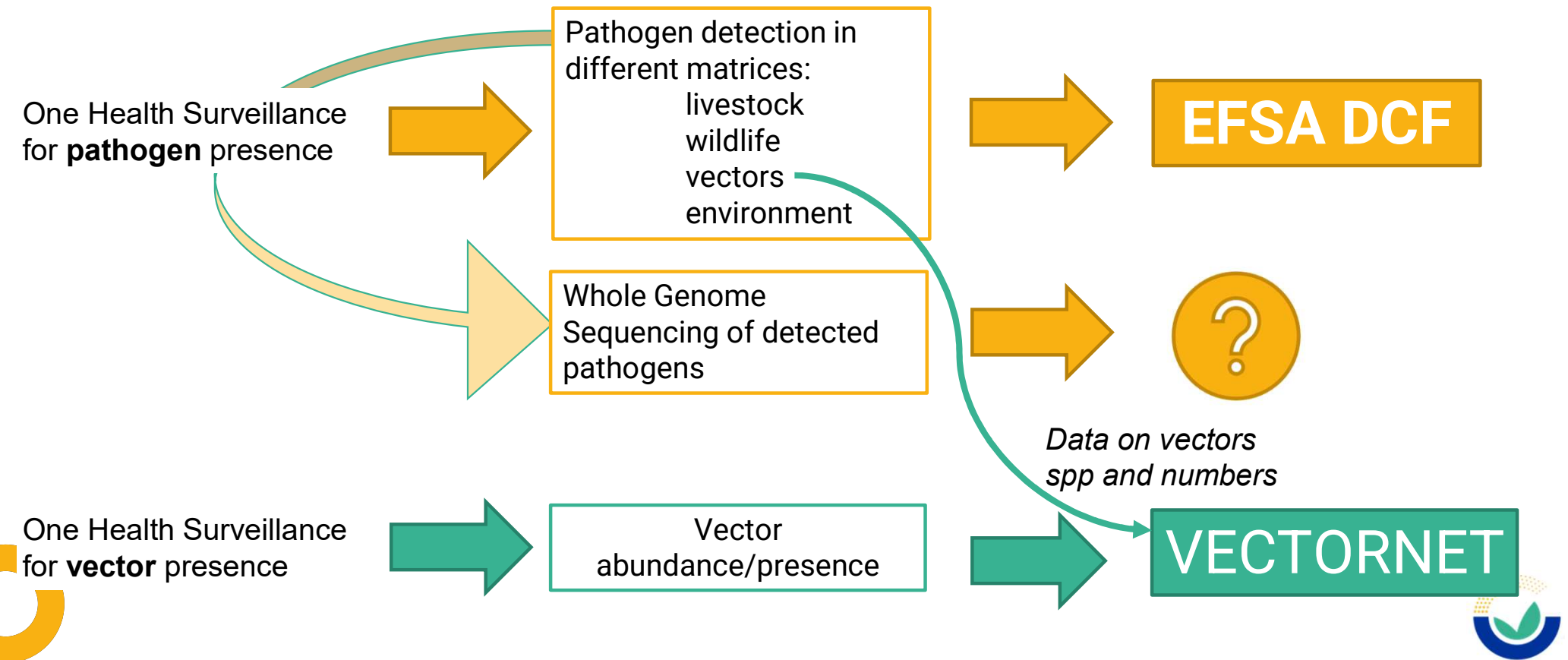


## PRIORITY PATHOGENS TO BE SAMPLED IN ANIMALS/ ENVIRONMENT

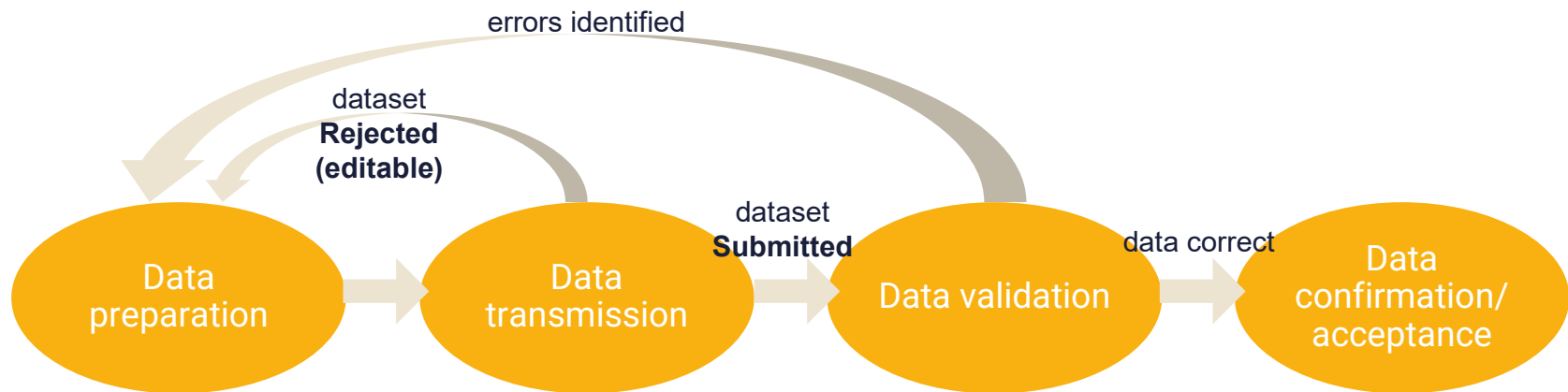
- Coxiella burnetii
- Echinococcus granulosus
- Hepatitis E virus
- Avian Influenza virus
- Highly pathogenic avian influenza (HPAI) virus
- Influenza A viruses
- Swine influenza virus
- Rift Valley Fever virus
- West Nile Fever virus
- Crimean Congo Hemorrhagic Fever virus
- Tickborne Encephalitis virus
- Borrelia burgdorferi
- New infectious agent



# DATA FLOW



# DATA SUBMISSION/ COLLECTION STEPS EFSA DCF



Tool	SIGMA EST (optional)	Data Collection Framework (DCF)	MicroStrategy Validation Dashboard	MicroStrategy Confirmation Document
User	Data provider	Data provider	Data provider/Data validator/EFSA	Data validator
Outcome	data in xml format following the EFSA standards	datasets in status first Valid and then Submitted	errors identified and affected datasets rejected OR data correct	datasets in status <b>Accepted DWH</b>

Validated data will be displayed in dashboards accessible only to OH surveillance subgroup

Accepted data will be used by EFSA to produce the annual report





Data reporting to EFSA, data validation & storage

EFSA reports

Data visualisation

Validated aggregated data is displayed in dashboards - viewing - downloading

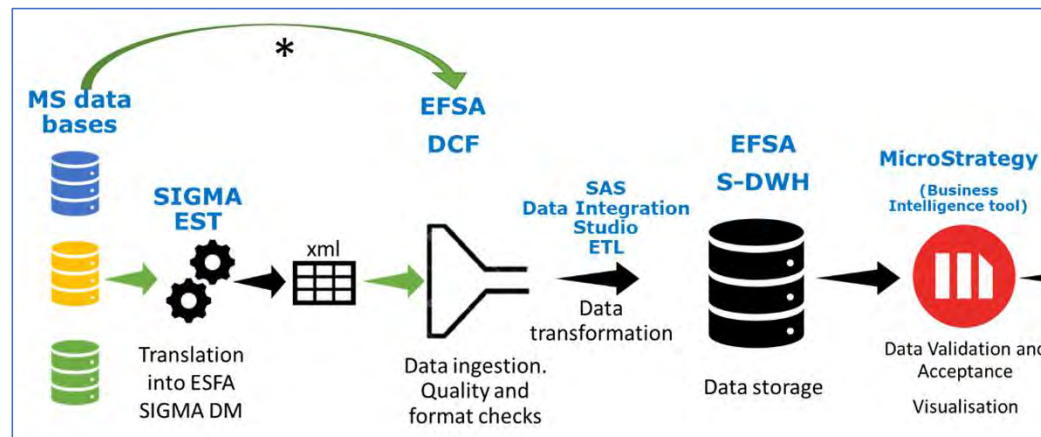


(Automatic update of dashboards as soon as new data arrives)

01/09/2024	reporting framework opens MSs report data	
Feb 2025	reporting framework closed EFSA fixes any problems MSs accept data in DWH for use in report	
01/03/2025	reporting framework reopens MSs report data	
31/04/2025		EFSA report 2024 data
May-Jul 2025		EFSA/MSs/ECDC re-prioritisation
30/09/2025		EFSA reprioritisation report
Feb 2026	reporting framework closed MSs accept data	
01/03/2026	reporting framework reopens MSs report data	
31/03/2026		EFSA report 2025 data
Feb 2027	reporting framework closed MSs accept data	
31/03/2027		EFSA report 2026 data

## DATA SUBMISSION

- Near real-time data submission throughout the year
- Submission of single sample data at spatial resolution NUTS 3 or detailed geolocation (unless breach with GDPR)



# DATA VISUALISATION DASHBOARDS AND ACCESS

## Different tabs:

### 1. Surveillance efforts:

1. Data submission summary
2. Surveillance intensity by disease

### 2. Surveillance results:

- A. Tables
- B. Graphs and maps



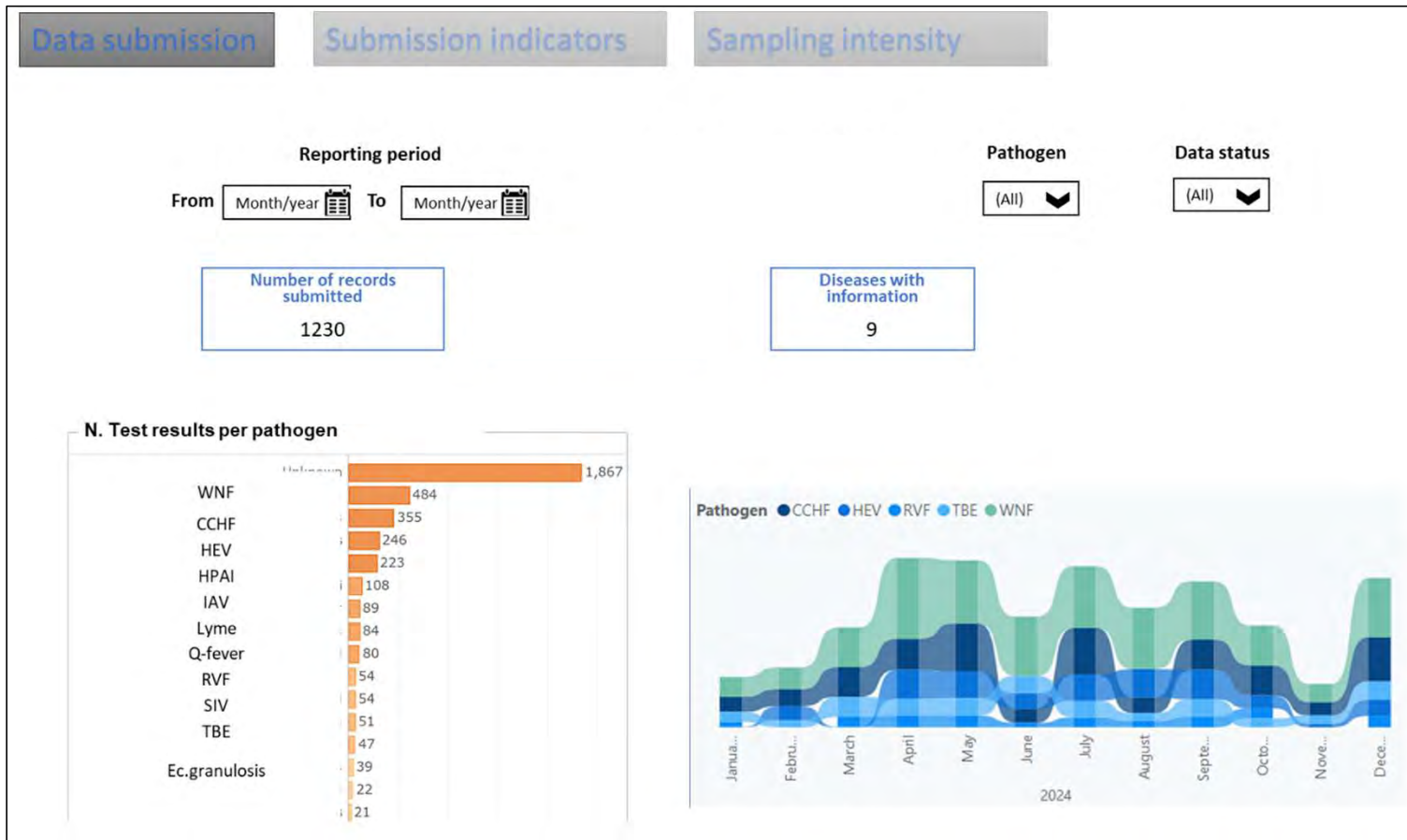
**EFSA prepares different proposals of dashboards and access rules**

**MSs review and provide feedback from all relevant stakeholders, including CVOs**

**April – May 2024**



# DATA VISUALISATION DASHBOARD – POSSIBLE OPTION



# DATA VISUALISATION DASHBOARD – EXPORTING CAPABILITIES



**REPORT to fulfill reporting obligations to HaDEA**

Country XX

Surveillance data reported to EFSA in the context of the OH surveillance

In 2024

Report downloadable from MicroStrategy by the countries

- At any moment
- pdf format
- including set of tables and graphs from dashboard

DISEASE STATUS TABLES

TABLE NAME	REGION	Zoonotic Agent	DISEASE STATUS UNIT	Number of herds with status officially free	Number of infected herds	Total number of herds
*Reportable in countries and regions that do not receive Community co-financing for eradication programme	EUROPEAN UNION	Mycobacterium bovis		0	0	0
		Mycobacterium caprae		0	0	0
		Mycobacterium tuberculosis complex (MTC)		317 435	42	317 477
	Spain	Mycobacterium caprae		11 411	3	11 414
		Mycobacterium tuberculosis complex (MTC)		12 361	0	12 361
	Cyprus	Mycobacterium tuberculosis complex (MTC)		8 084	0	8 084
	Malta	Mycobacterium tuberculosis complex (MTC)		23 052	0	23 052
	Saint Mary	Mycobacterium caprae		0	0	0
		Mycobacterium tuberculosis complex (MTC)		0 363	0	0 363
	Italy	Mycobacterium caprae		0	1	1
		Mycobacterium tuberculosis complex (MTC)		4 368	0	4 368
	Azores	Mycobacterium tuberculosis complex (MTC)		12 361	0	12 361
	Bozupov	Mycobacterium bovis		0	0	0
		Mycobacterium caprae		0 349	0	0 349
		Mycobacterium tuberculosis complex (MTC)		4 451	2	4 453
	Croatia	Mycobacterium bovis		0	0	0
		Mycobacterium tuberculosis complex (MTC)		11 431	0	11 431
	Malta	Mycobacterium tuberculosis complex (MTC)		6 014	0	6 014
	Other	Mycobacterium caprae		0	1	1
		Mycobacterium tuberculosis complex (MTC)		4 232	0	4 232
	Sweden	Mycobacterium tuberculosis complex (MTC)		10 109	0	10 109
	Switzerland	Mycobacterium caprae		16 247	4	16 251
	Uganda	Mycobacterium tuberculosis complex (MTC)		13 585	0	13 585
	United Kingdom	Mycobacterium tuberculosis complex (MTC)		16 456	0	16 456
	Sweden	Mycobacterium tuberculosis complex (MTC)		28 363	0	28 363
	United Kingdom	Mycobacterium caprae		8 017	0	8 017
	United Kingdom	Mycobacterium tuberculosis complex (MTC)		8 788	1	8 789
	United Kingdom	Mycobacterium bovis		0	0	0
		Mycobacterium caprae		0	12	12
		Mycobacterium tuberculosis complex (MTC)		7 239	13	7 252
	Comoros	Mycobacterium tuberculosis complex (MTC)		0 121	0	0 121
	Guinea	Mycobacterium tuberculosis complex (MTC)		0 306	0	0 306
	Latvia	Mycobacterium tuberculosis complex (MTC)		1 058	0	1 058
	Malawi	Mycobacterium tuberculosis complex (MTC)		7 208	0	7 208
	Algeria	Mycobacterium tuberculosis complex (MTC)		11 807	0	11 807
	Zimbabwe	Mycobacterium tuberculosis complex (MTC)		1 812	0	1 812
				8		

Romania - 2022



## NEXT STEPS

### Tasks for MS

- Submission of surveillance cards
- Nomination of data providers and data validators
- Feedback on dashboard and access proposals
- Attend webinar on data submission

### Tasks for EFSA

- Send data submission guidance and business rules
- Send request for nomination of data providers and data validators
- Send proposals for data visualisation dashboard and access to this
- Webinar on data submission

