

UNITED⁴Surveillance

A circular logo with a yellow sun-like symbol in the center, surrounded by a white border, positioned below the '4' in the main title.

UNION AND NATIONAL CAPACITY BUILDING 4 INTEGRATED SURVEILLANCE

„One Health“

jednání meziresortní pracovní skupiny pro zoonózy, Praha, 30. 11. 2023

Koordinátor projektu v ČR: MUDr. Monika Liptáková, monika.liptakova@szu.cz

„One Health“ kontakt v ČR: MUDr. Michaela Špačková, Ph.D., michaela.spackova@szu.cz



Co-funded by
the European Union

EU4Health Programme (EU4H)

01/01/2023 – 31/12/2025

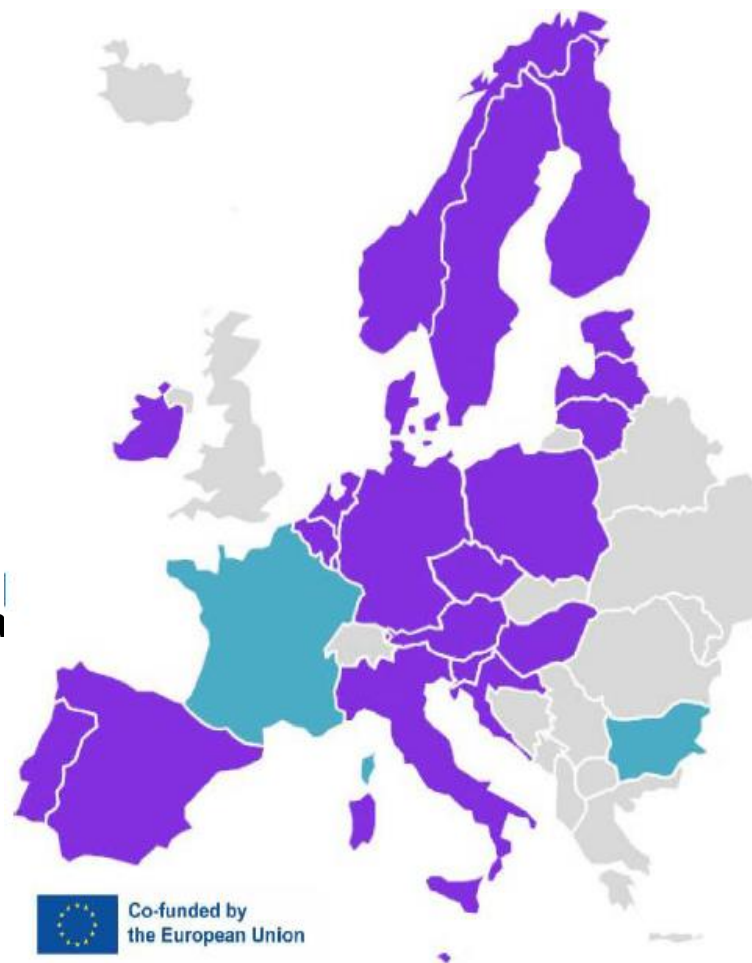
Konsorcium 24 států EU (40 institucí)

Koordinátor RIVM (Nizozemsko)

Cíle:

- posílení surveillance infekčních nemocí na národní úrovni
- implementace integrované surveillance

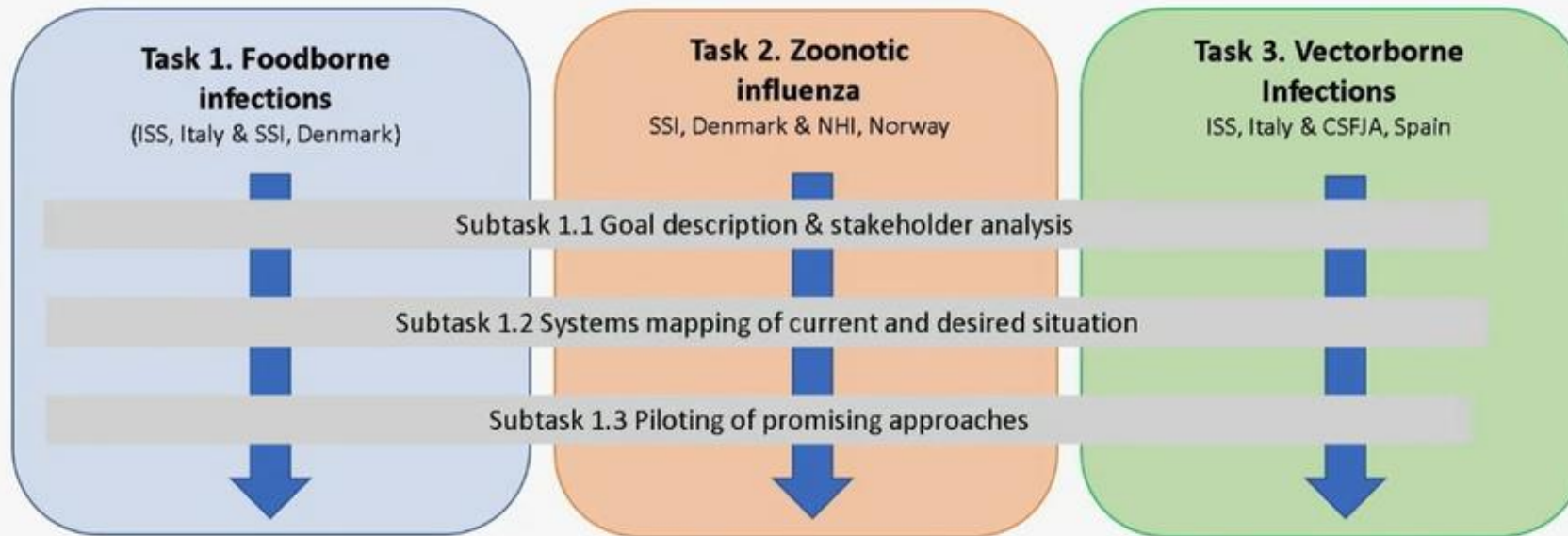
role ČR „listener“



Pracovní balíčky:

- WP1 Koordinace
- **WP2 Detekce a řešení epidemií**
- **WP3 Surveillance závažných infekčních nemocí vedoucích k hospitalizaci**
- **WP4 One Health**
- WP5 Hodnocení projektu
- WP6 Sdílení informací, komunikace
- WP7 Udržitelnost projektu

Three tasks over three disease groups



One Health EJP projects COHESIVE and MATRIX – doporučená metoda Mendelow's matrix

<https://www.ohras.eu/page/getting-started/systems-mapping-of-the-current-situation/61eedd36bc93b661d531c793>

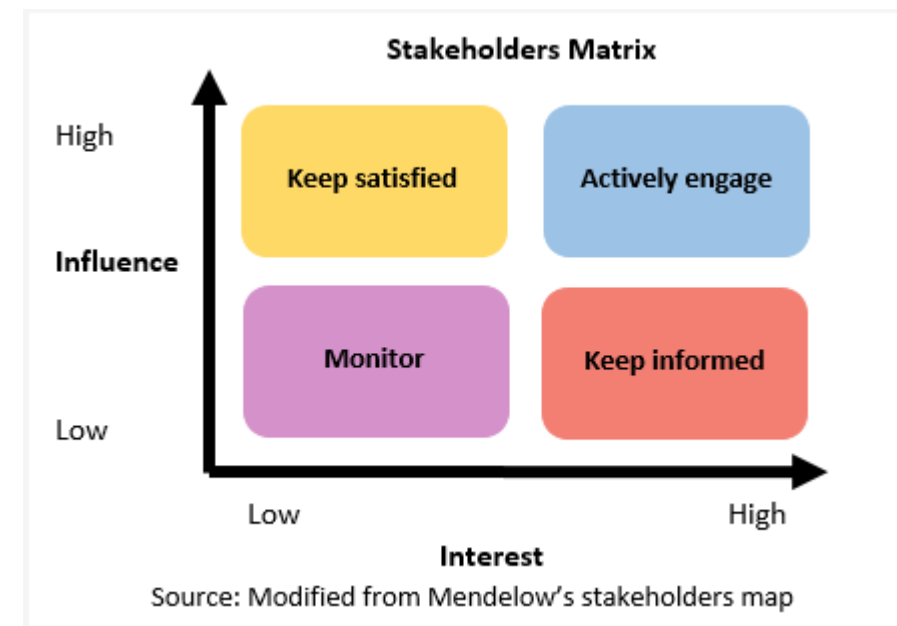
https://ejp-matrix.eu/Ident_engage_stakeholders/

<https://www.ohras.eu/page/getting-started/stakeholder-analysis/61eedd26bc93b661d531c78f>

<https://blog.oxfordcollegeofmarketing.com/2018/04/23/what-is-mendelows-matrix-and-how-is-it-useful/>

Jaké instituce/sektory/osoby zapojit?

1. Shoda na patogenu a cíli One Health surveillance
2. Stakeholder analyses
3. System mapping
4. Národní workshop pro pilotující země



Institute	Country	T4.1 Foodborne	T4.2 Zoonotic influenza	T4.3 Vectorborne
ISS	Italy	Salmonella/STEC/(HEV)		WNV/arboviruses (TBEV)
SSI	Denmark	?	Avian/swine	
RIVM/WBVR	Netherlands	Salmonella/STEC/Campylobacter	Swine	
FHI	Norway		Swine	
Sciensano	Belgium	Salmonella(/STEC)	Avian/swine	
NVSC	Lithuania	Salmonella		TBEV
CSFJA/FPS	Spain			WNV

Which pathogen(s) to include for BE ?

- Outbreak potential
- Frequency and severity
- Added value of one health surveillance
- In consultation with other MS – same pathogens for comparability

Choice: **Salmonella**

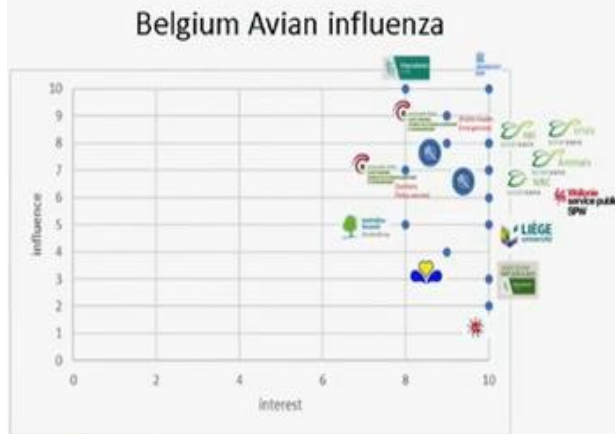
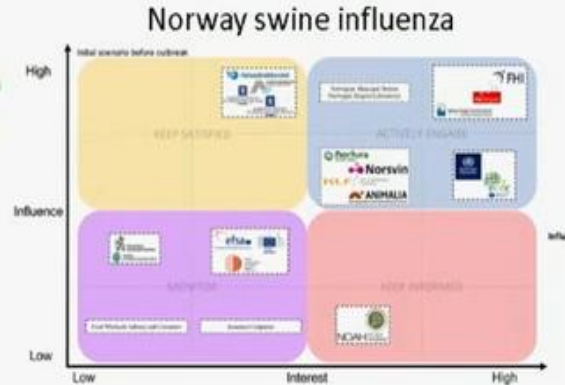
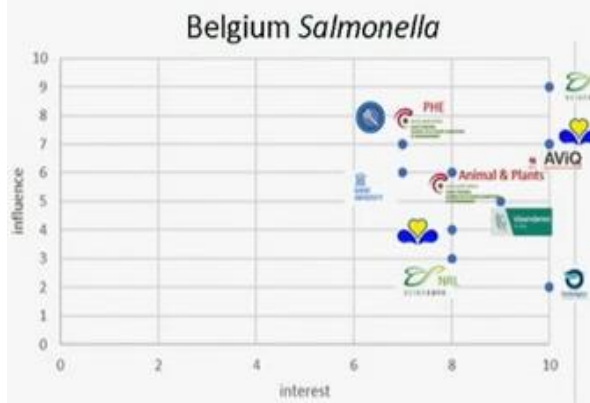
- Important foodborne pathogen in frequency/severity
- Outbreak potential
- Existing surveillance systems (human/food/animal)
- Importance ++ of One Health surveillance structure (WGS, AMR)
- Reusable for other pathogens (e.g. Listeria, STEC)
- Common pathogen with other MS

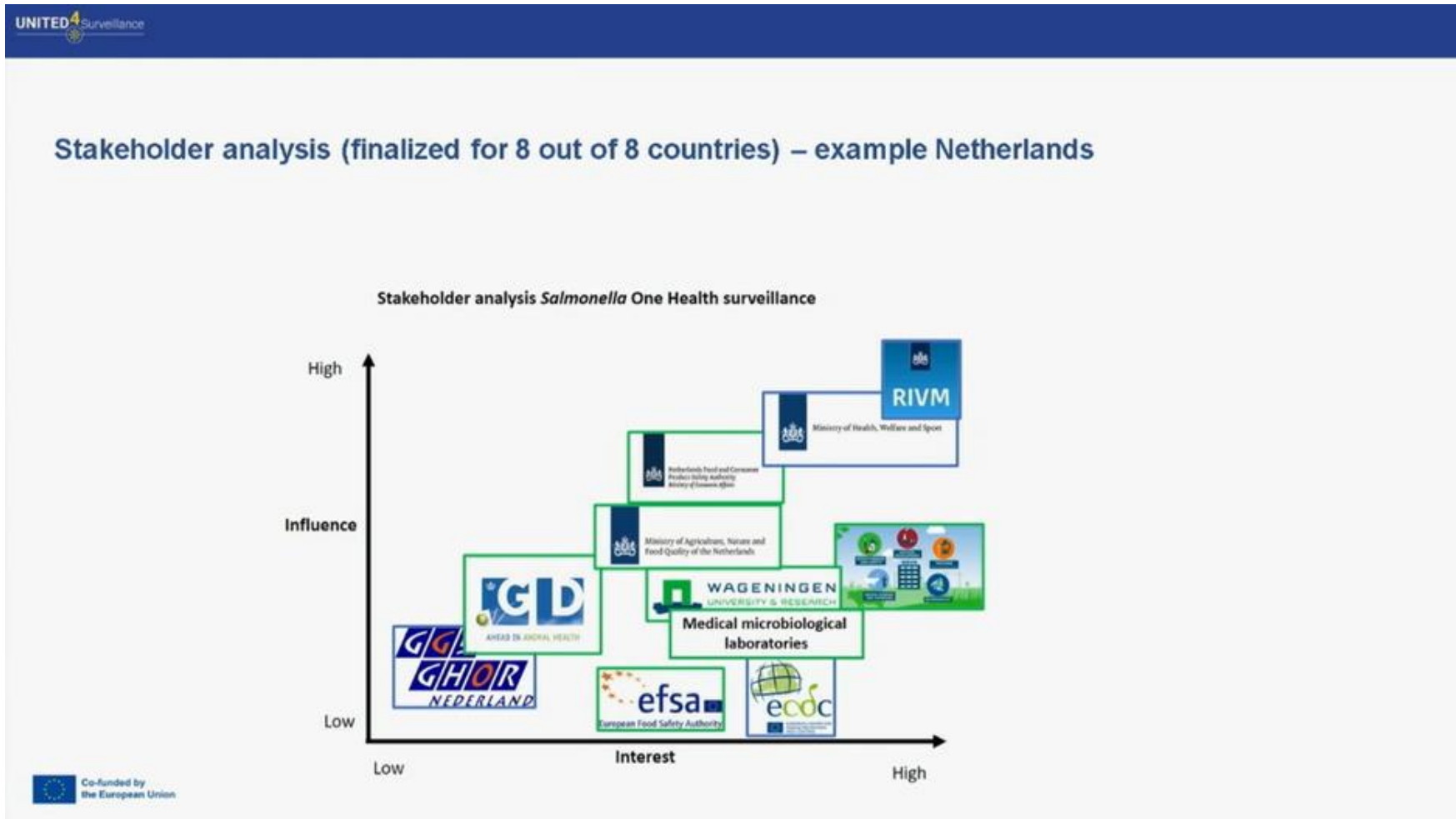
Choice: **Avian and Swine influenza**

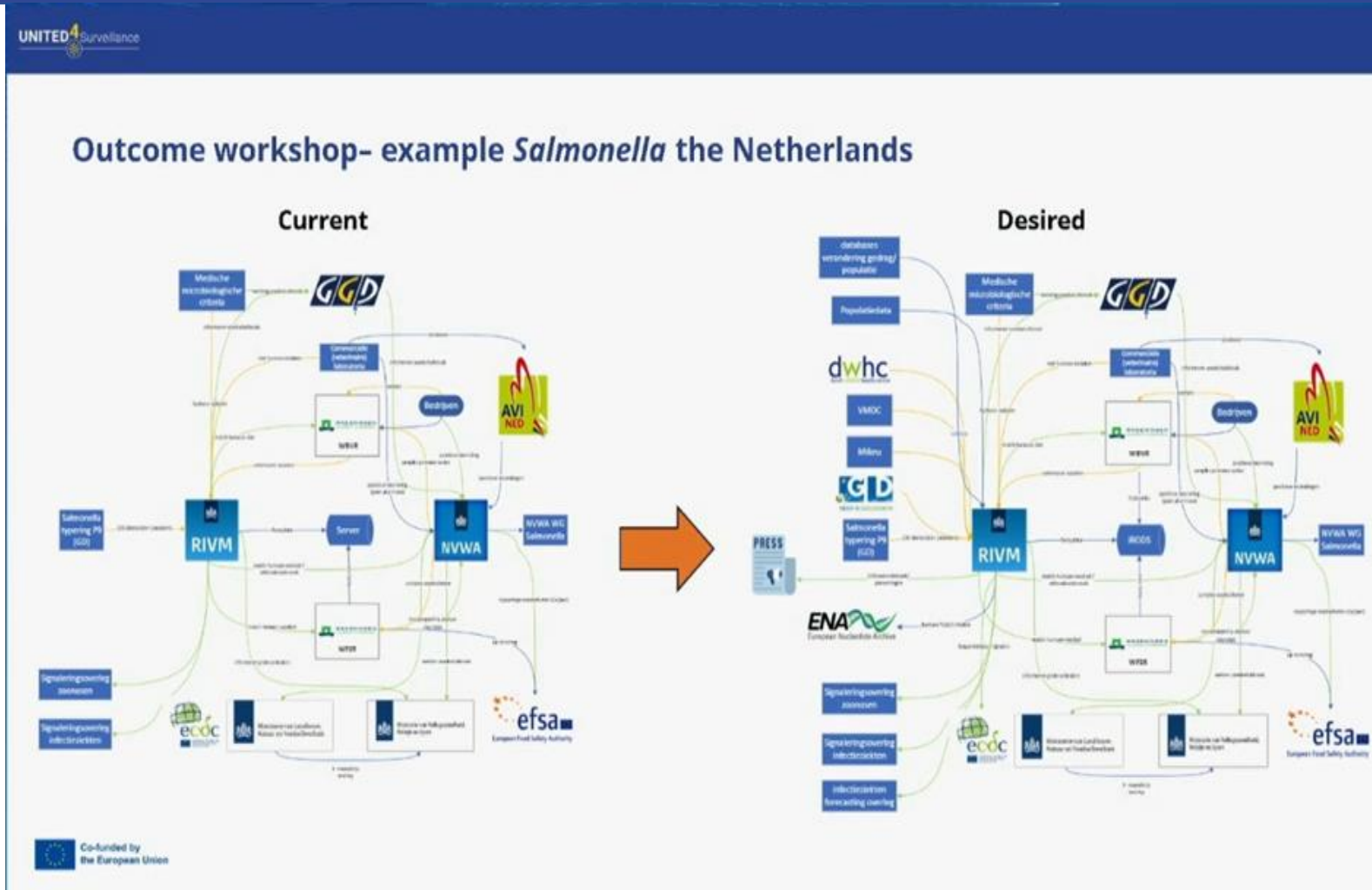
- Increasing outbreak potential
- Need of human surveillance systems
- One Health approach particularly suited

Stakeholders Salmonella surveillance

Authority's Full Name	Domain	Governmental/ Commercial	(inter)National /Regional	Role	interest (1 the lowest and 10 the highest) <i>*rated by themselves - > survey</i>	influence (1 the lowest and 10 the highest) <i>*rated by themselves -> survey</i>
→ Sciensano - NRC <i>Salmonella</i>	Human, Animal	Governmental	National	Typing human <i>Salmonella</i> isolates	survey not replied to	
→ Sciensano - NRL FBO	Food	Governmental	National	Typing food and animal <i>Salmonella</i> isolates	8	3
→ Sciensano - Epidemiology infectious diseases	Human	Governmental	National	Epidemiological surveillance, outbreak support	10	9
Sciensano - SEP (crisis, one health coordination)	Human	Governmental	National	crisis coordination	survey not replied to	
→ Federal Agency for the Safety of the Food Chain (FASFC)	Food, Animal	Governmental	National	Assessment and management of risks throughout the food chain, animals and plants.	7	7
Federal public service Health, public health emergencies	Human	Governmental	National	crisis support, EWRS	7	7
→ Federal public service Health, Sanitary policy for animals and plants	Food, Animal	Governmental	National	Assessment and management of risks throughout the food chain, animals and plants.	8	6
→ Departement Zorg (DZ)	Human	Governmental	Regional	Prevention/outbreak investigations	9	5
→ Agence pour une vie de Qualité (AViQ)	Human	Governmental	Regional	Prevention/outbreak investigations	10	7
→ Commission communautaire commune (COCOM-GGC)	Human	Governmental	Regional	Prevention/outbreak investigations	9	6
Ostbelgien	Human	Governmental	Regional	Prevention/outbreak investigations	10	2
→ Dierengezondheidszorg Vlaanderen (DGZ)	Animal	Other	Regional	Detection <i>Salmonella</i> in livestock	survey not replied to	
→ ARSIA	Animal	Other	Regional	Detection <i>Salmonella</i> in livestock	survey not replied to	
University of Gent - Faculteit Diergeneeskunde	Animal	Academic			7	6
ECDC	Human	Other	International	Cross border outbreaks, trends EU human salmonellosis	survey not replied to	
EFSA	Food, Animal	Other	International	Cross border outbreaks, trends EU food/animal	survey not replied to	







2 → Objective(s)¶

- a. → Measure the levels and temporal trends of exposure and burden of disease¶
- b. → Support early detection and response to outbreaks¶
- c. → Identify risk factors to implement control measures¶

Important: because there may be more than one objective, it might be useful in the rest of the document below to specify for which of the objectives data is collected or results are disseminated.¶

3 → Data collection¶

3.1 → Description of roles and responsibilities¶

Organization%	Role%	Responsibilities%
x	x	x
x	x	x
x	x	x
x	x	x
x	x	x
x	x	x
x	x	x

3.2 → Sampling program and design¶

Describe per surveillance system the target population, sample size, strategy (e.g. convenient or random sampling), timing (e.g. production stage, seasonality).¶

3.3 → Sample collection procedures¶

Describe the location of sampling (e.g. retail, production) as well as the frequency and possible seasonality (e.g. only environmental sampling during summer).¶

3.4 → Harmonization of definitions¶

Describe here the case definition, definition of surveillance or monitoring, to ensure that everyone speaks the same language.¶

3.5 → Description of laboratory standard operating procedures¶

Describe the laboratory protocols that each of the partners participating in surveillance use.¶

3.6 → Harmonization of laboratory methods¶

Describe here the laboratory methods that are used, such as MLVA typing, cgMLST, etc.¶

3.7 → Harmonization of results expression¶

Describe how the results are expressed, such as the number of alleles, difference, or the detection limit and limit of quantification.¶

4 → Data sharing¶

4.1 → Population data¶

Describe what data will be shared, such as number of animals, species or data from the civil registry (can be useful for outbreak investigations).¶

4.2 → Production data¶

These include animal production data, food production volume and/or food sales data.¶

4.3 → Measures of disease/contamination frequency/burden¶

Examples are prevalence data, concentrations of pathogens, incidence, morbidity, mortality.¶

4.4 → Laboratory results¶

Detection, enumeration, typing (e.g. WGS data)¶

4.5 → What/when/how¶

Describe what kind of data is shared (e.g. raw, aggregated, metadata), when (e.g. immediate, weekly, monthly), and how (e.g. report, data warehouse, publication)¶

5 → Data analysis and interpretation¶

5.1 → Statistical analysis¶

Describe the type of statistical analysis and statistics used, such as descriptive statistics (e.g. number of cases, age, gender), inferential statistics, Bayesian inference.¶

5.2 → Modeling¶

Describe the type of modelling that will be done, such as dose/response or source attribution.¶

5.3 → Visualization procedures¶

Describe how the data will be visualized, including maps, graphs and/or dashboard, as well as¶

5.4 → Scientific expertise to interpret the results¶

Describe the type of expertise needed to interpret the results, such as epidemiologist for statistical modelling, microbiologist for the laboratory data and bioinformatics for the WGS data.¶

5.5 → Harmonization of indicators between sectors¶

Describe the type of harmonization with regard to indicators that will be used, including counts, proportions, rates or ratios.¶

6 → Results dissemination¶

6.1 → Internal communication¶

Describe how results will be disseminated internally, including coordination meetings.¶

6.2 → External communication¶

Describe how results will be communicated externally, which can include newsletters, reports or platforms for visualizations.¶

6.3 → Dissemination to decision makers¶

Describe how results are disseminated to decision makers.¶

Annex¶

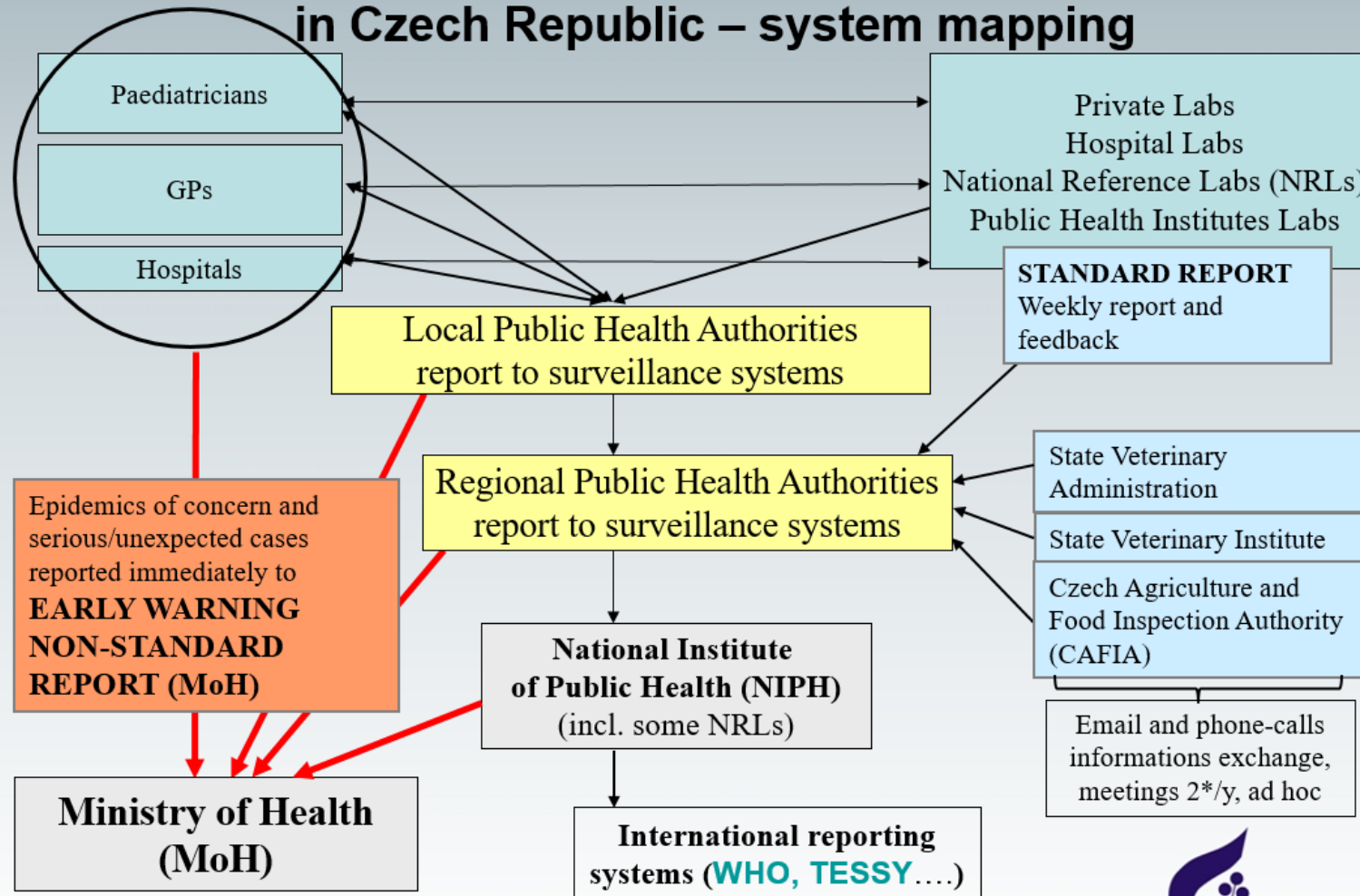
Stakeholder analysis: the stakeholder analysis (Mendelows matrix) could be added here.¶

Systems mapping: the results (visualization) of the systems mapping workshop could be added here.¶

DISSEMINATION STAKEHOLDER LIST

Country	Authority details					Contact Person's Details								High / low interest in the project (score from 1 to 5, being 1 the lowest and 5 the highest interest)	High / low influence in the project (score from 1 to 5, being 1 the lowest and 5 the highest influence)	First contact made (Y/N)
	Authority's Full Name	Authority's Acronym	Address	Website	Email	Title	Name	Surname	Position	Department	Telephone Number	Mobile Number	Email			
	Ministry of Health of the Czech Republic	MoH	Palackého náměstí 12, 120 00 Praha 2	https://www.ovz@mzcr.cz		M.D., Ph.D.	Pavla	Svrčinová	chief public health officer		(+420) 224 972 431		pavla.svrcinova@mzcr.cz	4	5	Y
	Ministry of Health of the Czech Republic	MoH	Palackého náměstí 12, 120 00 Praha 2	https://www.zdenek.kysely@mzcr.cz		M.Sc.	Zdeněk	Kyselý	head of department of epidemiology and infectious diseases		(+420) 224 972 908		zdenek.kysely@mzcr.cz	3	5	N
	National Institute of Public Health	NIPH (SZU)	Šrobárova 47, 100 02 Praha 10	https://szu.zdravust@szu.cz		M.D.	Barbora	Macková	director		(+420) 267 082 481		barbora.mackova@szu.cz	4	4	Y
	Regional Public Health Authority P	RPHA	Rytířská 1, 120 00 Praha 2	https://www.epida@hygpraha.cz		M.D.	Martina	Marešová	director of epidemiology department		(+420) 296 336 765		martina.maresova@hygpraha.cz	3	3	N
	Regional Public Health Authority C	RPHA	Ditřichov 1, 250 02 Blatná	https://khsstc.epid@khsstc.cz		M.D.	Lilian	Rumlová	director of epidemiology department		(+420) 234 118 257		lilian.rumlova@khsstc.cz	3	3	N
	Regional Public Health Authority S	RPHA	Na Sadecké 1, 370 01 České Budějovice	https://www.epida@khsstc.cz		M.D.	Hana	Bendíková	director of epidemiology department		(+420) 387 712 310		hana.bendikova@khsstc.cz	3	3	N
	Regional Public Health Authority P	RPHA	Skrétkova 1, 500 02 Hradec Králové	https://www.epida@khsplzen.cz		M.D.	Jitka	Průchová	director of epidemiology department		(+420) 377 155 133		jitka.pruchova@khsplzen.cz	3	3	N
	Regional Public Health Authority K	RPHA	Závodní 1, 250 02 Blatná	http://www.epida@khskv.cz		M.Sc.	Martina	Prokopová	director of epidemiology department		(+420) 355 328 367		martina.prokopova@khskv.cz	3	3	N
	Regional Public Health Authority Ú	RPHA	Moskevská 1, 250 02 Blatná	https://www.epi@khsusti.cz		M.D.	Eva	Patrasová	director of epidemiology department		(+420) 477 755 160		eva.patrasova@khsusti.cz	3	3	N
	Regional Public Health Authority L	RPHA	Husova 6, 250 02 Blatná	https://www.epida@khslibc.cz		M.D.	Monika	Hausenblasová	director of epidemiology department		(+420) 483 368 516		monika.hausenblasova@khslibc.cz	3	3	N
	Regional Public Health Authority H	RPHA	Habrmanova 1, 250 02 Blatná	http://www.epida@khshk.cz		M.D.	Eva	Beranová	director of epidemiology department		(+420) 495 058 302		eva.beranova@khshk.cz	3	3	N
	Regional Public Health Authority P	RPHA	Mezi Mlýnskými náhonky 1, 250 02 Blatná	https://www.epidem@khspsc.cz		M.D.	Olga	Hégrová	director of epidemiology department		(+420) 461 535 067		olga.hegrova@khspsc.cz	3	3	N
	Regional Public Health Authority V	RPHA	Tolstého 1, 250 02 Blatná	https://www.epid@khsjih.cz		M.D.	Hana	Pavlasová	director of epidemiology department		(+420) 567 564 555		hana.pavlasova@khsjih.cz	3	3	N
	Regional Public Health Authority S	RPHA	Jeřábková 1, 602 00 Brno	https://www.epida@khsbrno.cz		M.D.	Renata	Ciupek	director of epidemiology department		(+420) 541 126 438		renata.ciupek@khsbrno.cz	3	3	N
	Regional Public Health Authority C	RPHA	Wolkerova 1, 250 02 Blatná	https://www.epid@khsolc.cz		M.D.	Andrea	Škurková	director of epidemiology department		(+420) 585 719 251		andrea.skurkova@khsolc.cz	3	3	N
	Regional Public Health Authority Z	RPHA	Havlíčkovy náměstí 1, 250 02 Blatná	https://www.epi@khszlin.cz		M.D.	Jana	Hošková	director of epidemiology department		(+420) 577 006 759		jana.hoskova@khszlin.cz	3	3	N
	Regional Public Health Authority N	RPHA	Na Bělidle 1, 250 02 Blatná	https://www.epida@khssova.cz		M.D.	Irena	Martinková	director of epidemiology department		(+420) 595 138 114		irena.martinkova@khssova.cz	3	3	N
	State Veterinary Administration of SVA		Slezská 1, 772 00 Olomouc	https://www.p.semerad@svsscr.cz		D.V.M.	Zbyněk	Semerád	central director		(+420) 227 010 142		p.semerad@svsscr.cz	3	3	Y
	State Veterinary Administration of SVA		Slezská 1, 772 00 Olomouc	https://www.p.satran@svsscr.cz		D.V.M., Ph.D.	Petr	Šatrán	director of the veterinary service		(+420) 227 010 145		p.satran@svsscr.cz	3	3	Y
	State Veterinary Administration of SVA		Slezská 1, 772 00 Olomouc	https://www.v.vlasakova@svsscr.cz		D.V.M.	Veronika	Vlasáková	head of the food safety department		(+420) 227 010 137		v.vlasakova@svsscr.cz	3	3	Y
	State Veterinary Administration of SVA		Slezská 1, 772 00 Olomouc	https://www.j.magalhaes@svsscr.cz		D.V.M.	Jana	de Sousa Trépa	department of animal health		(+420) 227 010 127		j.magalhaes@svsscr.cz	3	3	Y
	State Veterinary Administration of SVA		Slezská 1, 772 00 Olomouc	https://www.t.jarosil@svsscr.cz		D.V.M.	Tomáš	Jarosil	director of the department of epidemiology and infectious diseases		(+420) 227 010 150		t.jarosil@svsscr.cz	3	3	Y
	Ministry of Agriculture of the Czech Republic	MoA	Těšnov 6, 120 00 Praha 2	https://eagri.vladimir.brychta@mze.cz		D.V.M.	Vladimír	Brychta	department of food safety and food quality		(+420) 221 812 045		vladimir.brychta@mze.cz	3	3	Y
	Ministry of Agriculture of the Czech Republic	MoA	Těšnov 6, 120 00 Praha 2	https://eagri.petr.benes@mze.cz		M.Sc.	Petr	Beneš	head of the department of food safety and food quality		(+420) 221 812 321		petr.benes@mze.cz	3	3	Y
	Czech Agriculture and Food Inspection Authority	CAFIA	Květná 15, 120 00 Praha 2	https://www.lenka.bartosova@szpi.gov.cz		MSc., Ph.D.	Lenka	Bartošová	department of inspection, control and enforcement		(+420) 542 426 625		lenka.bartosova@szpi.gov.cz	3	3	Y
	State Veterinary Institute in Prague	SVI	Sídlištění 1, 120 00 Praha 2	https://www.tomas.cerny@svupraha.cz		D.V.M.	Tomáš	Černý	head of the bacteriology department		(+420) 770 118 912		tomas.cerny@svupraha.cz	3	3	Y
	State Veterinary Institute in Jihlava	SVI	Rantířov 1, 580 01 Jihlava	https://www.friedrich@svujihlava.cz		D.V.M.	Šimon	Friedrich	head of the bacteriology department		(+420) 567 143 131		friedrich@svujihlava.cz	3	3	Y
	State Veterinary Institute in Olomouc	SVI	Jakoubkova 1, 772 00 Olomouc	https://www.ibardon@svuol.cz		Associate Professor	Jan	Bardoň	director		(+420) 585 557 111		ibardon@svuol.cz	3	3	Y
	Research Institute of Veterinary Medicine and Food Safety	M VÚVeL	Hudcova 1, 250 02 Blatná	https://www.juricova@vri.cz		MSc., Ph.D.	Helena	Juricová	department of microbiology		(+420) 533 331 216		juricova@vri.cz	3	3	Y
	Institute of Health Information and Statistics	IHIS (UZIS)	Palackého náměstí 12, 120 00 Praha 2	https://www.uzis@uzis.cz		Professor, M.D.	Ladislav	Dušek	director		(+420) 224 972 869		ladislav.dusek@uzis.cz	3	4	N

Surveillance of communicable diseases in Czech Republic – system mapping



UNITED FOR SURVEILLANCE IN EUROPE

JOIN THE MISSION TO BE BETTER PREPARED FOR FUTURE CROSS-BORDER HEALTH THREATS

