



Project Deliverable

Workpackage 3

Responsible Partner: SVA

Contributing partners: Anses, Sciensano, BfR, RKI, DTU, SSI, INIA, UCM, APHA, PHE, ISS, IZSAM, RIVM, FHI, NVI, FOHM, SVA



GENERAL INFORMATION

European Joint Programme full title	Promoting One Health in Europe through joint actions on foodborne zoonoses, antimicrobial resistance and emerging microbiological hazards
European Joint Programme acronym	One Health EJP
Funding	This project has received funding from the European Union's Horizon 2020 research and innovation programme under Grant Agreement No 773830.
Grant Agreement	Grant agreement n° 773830
Start Date	01/01/2018
Duration	60 Months

DOCUMENT MANAGEMENT

Project deliverable	D-JRP6-0.4
Project Acronym	NOVA
Author	J. Frössling, SVA
Other contributors	F. Dórea, SVA
Due month of the report	M42 (June 2021)
Actual submission month	M45
Type <i>R: Document, report DEC: Websites, patent filings, videos, etc.; OTHER</i>	R Save date: 10-Sep-21
Dissemination level <i>PU: Public (default) CO: confidential, only for members of the consortium (including the Commission Services)</i>	PU This is the default setting. If this project deliverable should be confidential, please add justification here (may be assessed by PMT):
Dissemination <i>Author's suggestion to inform the following possible interested parties.</i>	OHEJP WP 1 <input type="checkbox"/> OHEJP WP 2 <input type="checkbox"/> OHEJP WP 3 <input type="checkbox"/> OHEJP WP 4 <input type="checkbox"/> OHEJP WP 5 <input type="checkbox"/> OHEJP WP 6 <input type="checkbox"/> OHEJP WP 7 <input type="checkbox"/> Project Management Team <input type="checkbox"/> Communication Team <input type="checkbox"/> Scientific Steering Board <input type="checkbox"/> National Stakeholders/Program Owners Committee <input type="checkbox"/> EFSA <input type="checkbox"/> ECDC <input type="checkbox"/> EEA <input type="checkbox"/> EMA <input type="checkbox"/> FAO <input type="checkbox"/> WHO <input type="checkbox"/> OIE <input type="checkbox"/> Other international stakeholder(s): Social Media: Other recipient(s):



DOCUMENTATION OF CONSORTIUM ASSEMBLY AND STEERING COMMITTEE MEETING

Summary

A fourth annual assembly was added as part of the extension of NOVA into 2021. Due to the COVID-19 pandemic, also this meeting was held as a an online meeting 18-19 May, 2021. The focus of the meeting was scientific results and finalizing the project. The agenda and minutes from the meeting is included below.



	<h2 style="margin: 0;">Agenda</h2> <h3 style="margin: 0;">One Health EJP</h3> <p style="margin: 0;">Grant Agreement number 773830</p>	
--	---	--

Topic:	One Health EJP – NOVA
Event:	NOVA annual meeting 2021
Author:	Jenny Frössling
Date & Time:	18 May 09:00 CET – 19 May 15:00 CET, 2021
Location	Online, Office Teams link

Tuesday, 18.05.2021

09:00 – 09:30	Welcome and opening - Jenny Frössling
09:30 – 11:00	<p>The final report</p> <ul style="list-style-type: none"> • Structure and input requests from OHEJP • Deadlines <p style="margin-left: 20px;"><u>Breakout rooms for each WP to discuss:</u></p> <ul style="list-style-type: none"> • Input from each WP to the final report • Data management plan, final version
11:00 – 13:00	Lunch break
13:00 – 13:45	<p><i>Scientific presentations. Moderator: Adeline Huneau</i> <i>Max 10 min presentation + 5 min questions and comments</i></p> <p>WP3 Multivariate syndromic surveillance: development of a One Health Monitoring System for <i>Campylobacter</i> in Sweden. Fernanda Dórea/ Wonhee Cha (SVA)</p> <p>WP2 Healthcare-associated foodborne outbreaks: literature review and survey in Italy and Germany. Idesbald Boone/ Hendrik Wilking (RKI)</p> <p>WP5 Cost-effectiveness (Euro/DALY) of sampling. Eric Evers (RIVM)</p>
13:50 – 14:00	Break
14:00 – 15:30	<p><i>Scientific presentations. Moderator: Håkan Vigre</i> <i>Max 10 min presentation + 5 min questions and comments</i></p> <p>WP1 An exploratory study on barriers and opportunities in food-borne disease surveillance from a One Health approach within EU countries. Maria-Eleni Filippitzi (Sciensano)</p> <p>WP4 A machine learning model to predict the spatial distribution of salmonella in pig farms and wild boar in Spain. Elisa Beninca and Arno Swart (RIVM)</p> <p>WP2 Are consumer purchases associated with sporadic salmonella? A case-</p>



	control study enabled by a novel e-consent tool. Frederik Trier Møller (SSI) WP5 Simulating performance of metagenomics in monitoring AMR in animal populations. Ofosuhene Okofrobour Apenteng (DTU)
--	--

Wednesday, 19.05.2021

09:00 – 09:10	Welcome day 2 - Jenny Frössling
09:10 – 10:00	<i>Scientific presentations. Moderator: Steen Ethelberg</i> <i>Max 10 min presentation + 5 min questions and comments</i> WP4 Challenges in modelling <i>Salmonella</i> Dublin spread in hypoendemic regions with high prevalence clusters. Hyeyoung Kim (SVA) WP2 Simulation and identification of foodborne outbreaks in real consumer purchase data. Peter Dougherty (FHI) WP3 Is syndromic approach well suited for food-borne diseases surveillance? Implication for salmonellosis surveillance and prevention in France with a One Health perspective. Briac Virey (Anses)
10:00 – 10:15	Break
10:15 – 11:00	<i>Scientific presentations. Moderator: Ana de la Torre</i> <i>Max 10 min presentation + 5 min questions and comments</i> WP2 Food products identified as source of a foodborne disease outbreak by a fast and robust likelihood estimation. Jakub Fusiak (BfR) WP5 Modelling spread and surveillance of ParaTB in the Swedish cattle trade network. Thomas Rosendal (SVA) WP4 Using <i>Salmonella</i> AMR monitoring data to assess the spatial epidemiology of infection in swine. Kendy Tzu-Yun Teng (formerly UCM)
11:00 – 13:00	Lunch break
13:00 – 14:00	WP summaries: WP1 – Maria-Eleni Filippitzi (Sciensano) WP2 – Steen Ethelberg (SSI) WP3 – Adeline Huneau (Anses) WP4 – Ana de la Torre (INIA) WP5 – Håkan Vigre (DTU) WP0 – Jenny Frössling (SVA)
14:00 – 15:00	Evaluation and future – Jenny Frössling with all project participants
15:00	Closing of the meeting



	<h1>Minutes</h1> <h2>One Health EJP</h2> <p>Grant Agreement number 773830</p>	
---	---	---

Date	2020-05-18 - 2020-05-19
Venue	on-line meeting, Teams
Meeting	Annual NOVA meeting

Participants

(list attached to the end of the document)

Recordings of scientific presentations

https://svasweden-my.sharepoint.com/:f/g/personal/jenny_frossling_sva_se/EkyBDVv8zqVik3hgW3DSI9EBmbuj4YTFuU65OeQlqffxiQ?e=17Byd8

Points addressed

1. Welcome and opening - Jenny Frössling (Tuesday morning)

The project coordinator Dr. Jenny Frössling (JF) welcomed the group with a brief review of what were the NOVA goal and overarching idea – increasing the effectiveness of surveillance by incorporating novel methods. She also reviewed the project structure and WPs.

As the project is in the wrapping up phase, the coordinator used this opportunity to review the structure of the Final Report, and highlight the input that is expected from all WPs and from individual institutions. As the OHEJP WP3 leader is present, Dr. Hein Imbrechts (HI), this was an opportunity to also hear his added recommendations and guidelines, and address any questions.

The following deadlines apply:

- 6th of June: input from WP-leaders to project leader;
- 14th June – First draft to OHEJP management;
- summer: feedback and dialogues with OHEJP management;
- 10th Sept – Final report to OHEJP management.

This is similar to the previous 12 months report, but covering the entire project time. HI highlights that there will be time to adjustments after the project is finished, since the final deadline is in September.

The template contains a section with a list of people in the project. Asked how much detail and how many people should be listed, HI clarified that this should be a complete and standalone report – that is, it should be understandable by external reviewers who could not have read any information about the project before. Therefore, this list is meant to give an overview of the expertise included in the project. It is therefore up to the institutions to decide who to list from those involved in the project. JF commented that it would be preferable if we could name all project participants and thereby acknowledge their contribution.



We reviewed the sections one by one, and any key messages and input expected are highlighted below:

- Summary
- Work done, for each WP, task by task. Total of 10 pages.
- Project self-assessment (1 page) – this is new compared to previous reports. Here we can comment about any deviations from the initial plan. HI clarifies that this is meant to anticipate potential comments from reviewers, for instance tasks that didn't get done because of the pandemic.
- Progress of the project, milestones and deliverables. Here it should be listed whether deliverables are public or confidential. The default should be public, and if requested to be confidential, a justification should be given. JF suggests that every WP should review the list of all past deliverables to see which can be public and which cannot (for instance have information expected to be published soon). In the latter case, a public report should still be made, reporting the work done so that evaluators can judge the use of the resources. The results can be kept confidential for peer-review publication later.
- Ethics – session already closed based on previous reports, no new input needed.
- Publications and additional outputs – please remember to add here all outputs generated. Publications are usually easy to list, but it can be hard to remember to add the other outputs requested, which are described in the template. JF urges all to read the text in the template and really try to list all outputs we generated. HI highlights the importance of these to the communications team, and asks participants to also list to what target users these outputs will be useful.
- One Health impact – this can overlap a bit with the previous, but the focus here, clarifies, HI, is on the inter-sectoral collaboration improved thanks to the project activities.
- Data management plan – a final version of the DMP is requested by the coordination by end of May. We have a DMP that has been filled in during the previous years, and at the end of this session we will review that version in groups.
- List of dissemination and communication activities – please add activities since the last report.

Economy: Ann Nordenfelt (AN), administrator responsible for the OHEJP accounting at SVA clarified that any of the institutions involved can be subjected to auditing (auditing is per institution, not per project). AN adds that all institutions have a financial responsible who should be up to date with the reporting final proceedings. What concerns the scientists in the project and that they can be affected during audit is the time reporting. All should keep track of their worked hours (as instructed at the start of the OHEJP).

After this the meeting was divided into 5 breakout rooms – one per WP. Discussions continued in the WP rooms about the final report and the DMP.

2. Scientific presentations (Tuesday afternoon)

After lunch the meeting was continue with scientific presentations of results generated by the different WPs.

WP3 Multivariate syndromic surveillance: development of a One Health Monitoring System for *Campylobacter* in Sweden. Fernanda Dórea (SVA)

WP2 Healthcare-associated foodborne outbreaks: literature review and survey in Italy and Germany. Idesbald Boone (RKI)

WP5 Cost-effectiveness (Euro/DALY) of sampling. Eric Evers (RIVM)

WP1 An exploratory study on barriers and opportunities in food-borne disease surveillance from a One



Health approach within EU countries. Maria-Eleni Filippitzi (Sciensano)

WP4 A machine learning model to predict the spatial distribution of salmonella in pig farms and wild boar in Spain, Elisa Beninca and Arno Swart (RIVM)

WP2 Are consumer purchases associated with sporadic salmonella? A case-control study enabled by a novel e-consent tool. Frederik Trier Møller (SSI)

WP5 Simulating performance of metagenomics in monitoring AMR in animal populations. Håkan Vigre replaced Ofosuhene Okofrobour Apenteng (DTU)

3. Scientific presentations (Wednesday morning)

The meeting continued on the second day with more scientific presentations:

WP4 Challenges in modelling *Salmonella* Dublin spread in hypoendemic regions with high prevalence clusters. Hyeyoung Kim (SVA)

WP2 Simulation and identification of foodborne outbreaks in real consumer purchase data. Peter Dougherty (FHI)

WP3 Is syndromic approach well suited for food-borne diseases surveillance? Implication for salmonellosis surveillance and prevention in France with a One Health perspective. Briac Virey (Anses)

WP2 Food products identified as source of a foodborne disease outbreak by a fast and robust likelihood estimation. Jakub Fusiak (BfR)

WP5 Modelling spread and surveillance of ParaTB in the Swedish cattle trade network. Thomas Rosendal (SVA)

WP4 Using Salmonella AMR monitoring data to assess the spatial epidemiology of infection in swine. Kendy Tzu-Yun Teng (formerly UCM)

4. Summaries by WP (WP leaders)

4.1. WP1

Presentation from the WP leader: Marilena Filippitzi (MF) reviewed the WP structure and for each of its two main tasks, reported on the work accomplished.

Specific challenges overcome were the overlap between Task 1 and tasks planned in the two integrative projects; and the COVID19 pandemic which impaired the ability to meet stakeholders for interviews planned in Task 2.

Task 1 overlap was solved with collaborative work between NOVA-WP1, COHESIVE and PRION, which resulted in a One Health Glossary freely available online.

Task 2 proceeded as planned with interviews held online.

Discussions: JF highlighted the number of challenges that this WP faced, starting from the change in leader 2 times before MF, and the identified strong overlaps with other projects. These challenges were successfully overcome.

4.2. WP2

Presentation from the WP leader: Sten Ethelberg (SE) reviewed the WP structure and goals, which were divided into 5 main tasks. For each task, SE reviewed the main goal and the outputs achieved.

Particular challenges highlighted were the access to purchase data, and the fact that this WP was composed almost solely of PH institutes, which were all highly impacted by the COVID pandemic. The work on NOVA established the necessary foundation and network for this work to start, and a lot may continue after the project ends.



Discussions: JF and SE reflected on whether the integration of this WP into the rest of the project specifically, and the collaboration between PH and AH domains across the project generally, were successful. Impediments in the work due to PH institutes overburden due to VODI19 were again brought up.

4.3. WP3

Presentation from the WP leader: Adeline Huneau (AH) reviewed the WP structure and goals, which were divided into 3 main tasks. AH highlighted that the three main countries working on this WP (NO, SE and FR) were all in different stages of expertise, development and implementation of syndromic surveillance in their countries. Accomplishments during the project will therefore be informative and reusable for countries in different stage themselves, retracing the lessons learned from beginning to end implementation.

Of particular note is that the comparative success of NO in this WP, a country where both AH and PH institutes were involved in the project. This highlights the power of collaboration, with Fr and SE on the other hand reporting difficulties of going from research to implementation due to the lack of active involvement of their PH counterparts.

4.4. WP4

Presentation from the WP leader: Ana de la Torre (AT) reviewed the WP structure and goals, and reported specific accomplished tasks, including some presented during the scientific presentations rounds. Barriers encountered included changes in legislation, difficulty to access data and information from official sources, and difficulties to connect the different disciplines in One Health. The WP was very productive with main outputs including scientific tools (among which 6 publications) and one dissemination tool (story maps). These are, as AT highlighted, tools for transferring knowledge. Most results were transferred back to data owners, and the story maps were also shared with EFSA.

Discussions: WP4 has often identified and named in reports the connections to other projects, with and outside OHEJP. JF asks others to also think about that, and make sure these connections get documented in the final report.

4.5. WP5

Presentation from the WP leader: Håkan Vigre (HV) reviewed the WP structure and goals. HV spoke positively of the collaboration within the WP, where all participants were very actively involved. He also highlighted that while this WP focused on the use of modeling, the group is proud to have been able to work with real data, evaluating surveillance activities based on data from actual populations and surveillance activities in each country.

HV highlighted our bias to work where the most data is available, which results in a lot of work done in parts of the food chain where we already know a lot. He urges researchers to see the foodchain as a whole, and suggests that future work should integrate available models, and try to focus in the steps of the food chain where our knowledge is most limited.

Discussions: during discussions Eric Evers seconded HV's thoughts on seeing the foodchain as a whole and trying to focus on unknowns.

5. Evaluation and future – Jenny Frössling with all project participants

JF opened the concluding discussions by encouraging the group to think about “Onwards”, what can we do next, in particular to disseminate our results. She reminds us that the OHEJP coordination has resources to help us with dissemination, including the opportunity to place documents and videos on onehealthjep.eu, and we should think beyond only scientific publications. On this note, she highlighted the story maps that INIA volunteered to put together and host.



HV pointed out that the funding structure meant that these projects were partially funded by other sources and disseminaitons and reporting, and deliverable of expectations is also done through these other projects.

Frederik Moller (FM) highlighted HV's thoughts on the farm to fork mapping of the food chain and collaborations needed throughout. HV further pointed out the need to access data, real data, along the chain, and AT made the remark that data access does not always mean that we are able to join those data and made sense of them in conjunction.

6. Closing of the meeting

JF concluded the meeting with wishes that we use this networking opportunity to continue the work across sectors and across countries.

7. Participants list:

Institution	Name
Anses	Adeline Huneau
UCM	Ana de la Torre
SVA	Anna Nordenfelt
	Antonio Rodriguez
DTU	Ofosuhene Okofrobour Apenteng
SVA	Arianna Comin
RIVM	Arno Swart
Anses	Briac Virey
NPFI	Clemence Koren
RIVM	Elisa Benincà
RIVM	Eric Evers
SVA	Estele Ågren
SVA	Fernanda Dórea
SSI	Frederik Trier Moller
ISS	Gaia Scavia
ANSES	Geraldine Cazeau
FOHM	Hanna Billström
Sciensano	Hein Imberechts
SVA	Hyeyoung Kim
DTU	Håkan Vigre
RKI	Ides Boone
RIVM	Ingrid Friesema
BfR	Jakub Fusiak
SVA	Jenny Frössling
UCM	Julio Alvarez
BfR	Katja Alt
NVI	Kyrre Kausrud
PHE	Lesley Larkin
IZSAM	Luigi Iannetti
NVI	Madelaine Norström



Sciensano
APHA

NVI
Anses
NPHI
SVA
SSI
SVA
SVA
SVA

Marilena Filippitzi
Mark Arnold
Michele Luca D'errico
Nathalie JOURDAN-DA SILVA
Petter Hopp
Renaud Lillier
Solveig Jore
Stefan Widgrén
Sten Ethelberg
Thomas Rosendal
Wiktor Gustafsson
Wonhee Cha