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SPRINT
SUSTAINABLE PLANT PROTECTION TRANSITION

Minutes of the kick-off meeting 2020

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Introduction

The SPRINT Kick-off meeting (KOM) occurred between 12 and 15th October 2020. Due to the COVID-19 pandemic, this KOM was a virtual meeting, held in ZOOM. For security all participants had to authenticate. A supplementary padlet platform was used to promote discussion. Logistics were supported by WP1 and WP8.

The meeting included plenary, target session and parallel sessions. All partners attended or were represented at the plenary sessions, and key persons (see names in the agenda and annex 1- SPRINT balloons) attended the target and the parallel sessions. The parallel sessions were organized in breakout rooms. Also present in the meeting was the SPRINT EC Project Officer, DG AGRI, DG SANTE, and DG ENV, and most of the SPRINT Project Advisory Board members. The list of participants is presented below.

All KOM sessions were recorded following no objections from participants. Given the existence of these records, the KOM minutes are mostly focused on the key point discussed, and on the follow up activities agreed during the meeting. All KOM materials - i.e. general information on the meeting, presentations, CSS posters, ZOOM recordings, ZOOM chat discussions and padlets discussions - are available for the all SPRINT consortium via the SPRINT website.

Participants

97, 69 and 61 participants attended the KOM on Tuesday, Wednesday and Thursday, respectively. 60% of participants attended the three days of the meeting, 12% two days and 28% only one day. Overall list of participants is presented below, per institution.

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Agenda of the meeting

*Key person, but not present in the session; Name of presenters are underlined.

Monday 12th of October	
Plenary session	
10:00-10:15	**Test zoom connection**
Target session	
10:30 – 12:00	**WP leaders meeting** (Paul N., Abdallah, Vivi*, Paul S., Marco, Nelson, Daniele, Anke, Jakub, Peter*, Lucius, Ana, Jane, Violette) *Chair: Violette*
12:00-13:00	Lunch break
Target session	
13:00-16:00	**Toolbox discussion** (Violette, Coen, Vera, Paula, Esperanza, Hans, Jerry, Jos, Anke, Daniel, Jakub, Shiva, Ellen, Beatrice, Ad Ragas, Ans, Paul S., Nicoleta) *Chair: Violette*

Tuesday 13th of October	
Plenary session	
9:00-9:20	**Welcome, SPRINT overview and Presentation of WP9** (Violette)
9:20-9:45	**General rules governing project follow-up and reporting** (Alessandro)
9:45-10:45	**DG AGRI, DG SANTE, DG ENV <->SPRINT** (Gisela, Eric, Christine, Sofie, Vujadin, Helen)
10:45-11:00	**Project Advisory Board** (Annette, Gabriela, Dieter, Luca*, Gottlieb*)
11:00-11:15	Break
11:15-11:35	**Presentation of WP1** (Paul N.)
11:35-11:55	**Presentation of WP2** (Abdallah, Vivi)
11:55-12:15	**Presentation WP3** (Paul S., Nicoleta)
12:15-13:15	Lunch break
Target session	
13:15-14:30	**WP2/WP3** - Sampling strategies in the CSS and indicators (*Abdallah, Frank, Herman, Nelson, Marti, Vivi, Juergen, Benjamin, Ellen*) - Analytics PPPs, microbiome (*Hans, Paul S., Juergen, Maria, Jakub, Jerry, Jos, Kieran*) *Chairs: Vera & Violette*
Parallel sessions	
14:30-16:00	**WP1/WP2/WP3 - CSS leaders Carrousel** (Judith, Abdallah, Vivi, Paul S., Marco; CSS leaders) **breakout room: WP1/WP2/WP3-CSS leaders Carrousel**; each group of CSS leaders have 30 minutes with WP1,WP2,WP3 leaders 14:30 – 15:00: CSS 1, 2, 3 & 4 15:00 – 15:30: CSS 5, 6, 7 & 8 15:30 – 16:00: CSS 9, 10 & 11
14:30-16:00	**WP1/WP6/WP7/WP8 - Interactions and data flow** (Paul N., Peter*, Lucius, Christian, Ana, Jane, Charlotte, Matt, Beatrice) **breakout room: WP1/WP6/WP7/WP8**
14:30-16:00	**Health group** (Vivi*, Anke, Daniel, Kieran*, Eoin, Benjamin*, Jerry, Jos, Daniele*, Marti*, Violette, Ans*) **breakout room: Health group**
Plenary session	
16:00-17:00	**Feedback and questions day 1**

Wednesday 14th of October	
Plenary session	
9:00-9:20	**Presentation of WP4** (Nelson, Daniele)
9:20-9:40	**Presentation of WP5** (Daniel)
9:40-10:00	**Presentation of WP6** (Lucius, Peter, Christian)
10:05-10:35	Break
10:35-10:55	**Presentation of WP7** (Ana)
10:55-11:15	**Presentation of WP8** (Jane, Paula)
11:15-12:00	**Compound selection** (Paul S.)
12:00-13:00	Lunch
Parallel Sessions	
13:00-14:30	**WP4** **breakout room: WP4 EP** Discussion on experimental setups, dataflow, timeline E, P: Nelson, Abdallah, Ellen, Esperanza, Frank *Chair: Nelson*
13:00-14:30	**WP4** **breakout room: WP4 AH** Discussion on experimental setups: A, H: Daniele, Jerry, Jos, Ad P., Kieran, Marti*, Benjamin *Chair: Daniele*
13:00-14:30	**WP3/WP5** **breakout room: WP3/WP5** Discussion on data, models etc. (Anke, Daniel, Paul S, Vivi, Nicoleta, Jakub, Shiva, Peter, Violette, Coen, Neus, Montse, Juergen, Celia) *Chair: Anke*
13:00-14:30	**WP6/WP7/WP8-CSS leaders Carrousel** **breakout room: WP6/WP7/WP8-CSS leaders Carrousel;** each group of CSS leaders have 30 minutes with WP6,WP7,WP8 leaders 13:00 – 13:30: CSS 1, 2, 3 & 4 13:30 – 14:00: CSS 5, 6, 7 & 8 14:00 – 14:30: CSS 9, 10 & 11
Plenary session	
14:30-16:00	**Detailed planning for the first 18 months** *Chair: Violette*
16:00-17:00	**Feedback and questions day 2**

Thursday 15th of October	
Plenary session	
9.00-09:45	**Data management plan and tools** (Eloi)
09:45–10:30	**Presentation of WP10** (Paul S.)
10.30-11.30	**Detailed planning for the first 18 months – cont.** *Chair: Violette*
11.30-12.30	**Feedback and questions**
12.30	**Closing of program**

Minutes - key points

Monday 12th of October
WP leaders meeting • CSS leaders training – adaptations to COVID-19 pandemic? (WP1) • Recruitment in the CSS <-> Stakeholder Engagement Plan (Table 1.3; overview of workshops, measures to avoid stakeholders fatigue; local languages; explore benefits for participants(WP1) • Monitoring plan <–> ethics approval (human health, endangered species) (WP2, WP10) • Modelling requirements - CSS selection (PPP use and distribution data, meteo station/soil characteristics, etc) (WP3) • List of compounds (selection criteria, analytical partners preparations) (WP3) • Exposure data (PPP applied, PPP occurrence, CSS results) is required to start tox/ecotox (WP4) • Toolbox definition (WP5) • Scenarios – Farm 2 Fork – climate drivers (WP6, WP7) • Glossary (WP8) • Internal communication – Protocols on emailing, internal newsletter?, etc (WP9) • COVID-19 impacts on sampling and project timeline? Include A COVID scenario in the research? - how it is affecting the farming economy etc • Work and dataflows - data required, data generated, times of data delivery – parallel works – overview table of (sub-)tasks with names of responsible persons
Toolbox discussion • Toolbox definition and structure - 3 tools>1- occurrence/fate/exposure/updated models; 2-risk assessment; 3- European maps and combined datasets; combination of tools - 5 key features: flexible, dynamic, meet project and other WPs needs & regulatory framework, deal with uncertainty, useful for researchers and stakeholders – level of complexity? Future developments? • Sensitivity analyses (besides uncertainty) <-> Simulations • Which exact models? -> Ecosystem => PELMO, PEARL, TOXSWA, PRZM -> humans concept: Wind erosion – to be developed in WP3; Ops-St; PEARL, FOCUS; OBO; PBPK models. -> animals (cow) missing • CSS data verification step for models • Train of models • All models in all CSS? • Flow across models? Femke design, units conversions across models, PBPK modeling • Who is going to use the toolbox and what are they going to use it for? • Policy <-> risk maps for different pesticide use scenarios; ask policymakers what they need? • Toolbox in IPCHEM platform? • How to classify health effects? - %, categories of risk, thresholds? - link to health indicators SPRINT (Resilience, reproductivity and diseases) - potential damage; health impact assessment - exposure response functions – simulations – risks in larger context • Upscaling: - models in upscaling? Which ones? - list of PPPs + PPPs use + crop maps + GIS data; PECs + Toxicity data + ecotoxicity data => ecological and human health risks - types of compounds <-> mixtures <-> crop types - non-SPRINT crops? - Integration of data on different spatial and temporal scales <-> how to go from snapshot in CSS to a timeframe of measures in pesticides use? • Toolbox SPRINT <->Toolkit FAO

Tuesday 13th of October
Agenda session: Welcome, SPRINT overview and Presentation of WP9 Title in slide 1 of the PPT: PPT – Introduction • Participants, overall aim, prime output, specific objectives, WP structure, concept • Activity, financial and legal management; Consortium agreement • KOM: focus on the activities and deliverables for the first 18 months
General rules governing project follow-up and reporting PPT – Insight on project management and monitoring from REA • Research Executive Agency; Horizon 2020; call overview • Grant Agreement (REA key actors); Project Lifecycle (monitoring, review, reporting and payment); financial aspects (amendments to the grant agreement); communication dissemination, and exploitation Q&A: % of budget allowed to change between categories; quicker amendments if they cover several changes; COVID – article 55 of the GA (rethink timeframe, adapt deliverables due dates, extend project duration)
DG AGRI, DG SANTE, DG ENV <-> SPRINT PPT – Policy context & EC expectations • H2020 pillars; expected impact; the European Green Deal; the Farm to Fork strategy • Pesticides regulations in the EU; REFIT • Sustainable Use of Pesticides • SPG project • Biodiversity and ecosystems • PPPs and the Water Framework Directive • Research & Innovation a key enabler Q&A: access to data (pesticide application rate – PPPAMS database/FAOSTAT/EUROSTAT)
Project Advisory Board Dieter (University of Kaiserslautern), Annette (NEPTUNE), Gabriela (EFSA) introduction – field of expertise and contribution to SPRINT (inc. deliverables)
Presentation of WP1 PPT – Stakeholder platforms • Multi-Actor Approach project • Stakeholder engagement plan (now mapping stakeholders) • Preparatory training events for CSS Leaders (w/ WP2, 6, 7) Q&A: who approaches stakeholders outside CSS? CSS stakeholder network established end of Nov. Main and additional points in the Padlet: • How best motivate stakeholders to participate in our stakeholder activities? good experiences? • Better to wait for harmonized approaches/methodology for engagement from WP1 or start approaching farmers as soon as possible? • Are the institutions that supported us during the development of SPRINT part of PSAG?
Presentation of WP2 PPT – PPPs' distribution and health status • Harmonization of sampling procedures across CSS. • Monitoring plan (draft sent 30 Sep; del. date: Feb 2021) <-> Standardized study plan <-> ethics approval • Overview tables: type and number of samples per CSS; type analyses per sample; content and analytical experts per sample matrix (PPP and microbiome). • 3 populations: farmers, non-farming neighbours, consumers • Replicates <-> time repeats? Variability • Health indicators – biomarkers (which; budget?) • Questionnaires/semi-structured interview guides – information on health, PPP use, economy (WP6), WP7?

Tuesday 13th of October

Presentation of WP2 (cont.)

Q&A: innovative measures – more conservative (best practices) or technologies that will be available in 5-10 years? controversial technologies (GMO, etc)?; what is the vision of sustainability we are transitioning to? <-> policy, climate and agriculture framing

Padlet:

- Study plan - must be available much earlier <-> ethical approval <-> farmers recruitment
- Human samples, time replicates? also because PPPs can leave the body relatively quickly?
- How do you deal with time in pregnancy outcomes in humans? <->current exposures?
- this season PPP application <-> health status which integrates many years and other factors?
- Consumers: how many per CSS? how to link them to the farming system?
- Neighbors and consumers? distance from farms?
- How to select farmers? Farmers heterogeneity into account? <-> WP6-7-8
- monitoring plan - statistical analysis method for the different data?

Presentation of WP3

PPT – Exposure assessment

- Estimate direct and indirect PPP exposure with models
- Ecosystem and plants: Pesticide fate models <-> PEARL, PELMO, PRZM, TOXSWA <-> data needs from CSS
- Animals and humans: food/feed; wristbands/diffusive sampling devices
- PBPK models <-> human volunteer study <-> within-subject and between-subject variability
- Input: existing data and new CSS data to calibrate and verify improved model trains
- outputs (to WPs 4 and 5): Most relevant target organs; exposure estimates for health impact assessment

Q&A: not decided yet if all CSS can be explored in WP3

Padlet: meteostation <10 km from field if not available?

WP2/WP3

PPT- Sampling strategies in the CSS and indicators

- When <u>in</u> the growing season?
  - a general criterion taking into account different crops
  - after 50% applications (farmer interview)/crop cultivation stage (soil moisture-soil life)?
  - pesticide Application plans
  - HUMAN sampling at same time as ENV. ENV is the complex part here.
  - ethics approval would take on average 2-3 months (sampling plan needed ASAP)
  - plants? Also in the growing season, or in the end? link to ecosystem or human health?
- Background/baseline samples? (for methods development and modelling)
  - additional analyses before PPP application not possible (budget limitations)
  - pre-screening (soil/water sediment/indoor and stable dust) enough?
  - alternatives: Organic data? from lab - WP4? PECs?
- Interval between collection of samples within CSS: shortest time across matrices & farms
- Protocols
  - sampling: ISO; amount; etc; training (videos, etc; WP1)
  - storage & shipping – samples with more than one destination
  - Soil - depth (wind erosion– 0-1 cm vs biological relevance 0-5/0-20 cm)? more samples/field (additional funding? Otherwise we must keep 1 composite sample/field)
- Changes in sampling design? More farmers/consumers? Amendments?
- Limited number of replicates in time to verify kinetics of uptake and excretion (human)
- Other parameters
  - Benjamin/Marc - kidney
  - biomarkers – which? budget?

PPT - Analytics PPPs, microbiome

- Sample flow (field-> lab(s))
  - Ethics – material transfer agreement to be signed by sending and receiving partner (INTA)? Analyses in Argentina, EU protocols? Bats?

Tuesday 13th of October

WP2/WP3 (cont.)

- Harmonization of analytical methods? Sample distribution matrix (certificated labs)
  - Updated analysis distribution
  - HighVol samplers? Which 2 sites – WP2/WP3? North/South EU? Prone to wind/tillage erosion?
- List of analytes
  - Based on farmer's application records + pre-screen samples (soil, water sediment, dust)

WP1/WP2/WP3 - CSS leaders Carrousel

- Identification of stakeholders, CSS specific concerns/problems and options
- Generic protocol for ethics & Informed consent template needed asap <–> recruitment
- Not enough farmers <-> increase CSS area?
  Organic farmers: not a lot; Conventional farmers: a lot but
  - afraid that SPRINT will say they have bad practices, and may become accountable
  - may perceive participation of neighbours as demotivation
  - how to share health data of the farmers' neighbours? <-> conflict within the community?
- Low interest/engagement of farmers and general population, afraid of biological sampling
- Multiple filters (e.g. meteo-station) limiting too much number of suitable farms
- Reject to show private pesticide use data
  - The farmer responsible for PPP application (vs agricultural contractors).
- Organic livestock: go outside fields (feed - main driver of exposure)? Intermediate approach?
- When to collect samples to enable linking exposure to effects?
- Crops and livestock are not possible in all fields.
- Clarification on biological sample processing (parameters to be analysed by CSS leaders vs. shipment to PPP, microbiome and biomarkers?)
- All expertise covered by CSS leaders and their networks <-> needs training?
- Link between livestock/human and crop produced in the farms might not be direct
- How representative is one (soil) sample from an entire field?
- family doctors need to be involved? if yes, how? Ask participants for permission if they agree that their biomarker outcomes are shared?

WP1/WP6/WP7/WP8 - Interactions and data flow

- Information/data sources: external (PPP use, etc) + CSS (farmers & CSS managers) + WPs 3-5
- CSS data: Farming practices & economic parameters + regulatory and CAP framework + (upcoming) best farming practices + value chain environment
  - questionnaires (w/ WP2)
- Scenarios & scenarios boundaries: green deal, F2F, biodiversity – aligned with groups of PPPs
- pesticide policies <-> climate drivers
- realistic impact and outlook beyond
- include innovative technologies into scenarios (robotics, microbiological pesticides)?

Health group

- Define outcomes from health assessment
  => reproduction: not explored much in this session
  => diseases: disease outcome to be integrated in the toolbox?; Toolbox- not too long generation period vs chronic diseases; plan new meeting with WP-L to define endpoints?
  => resilience: diversity of microbiome (bees); indicator species (good and bad species); functional outcomes of the microbiome (metagenomics – pathways – metabolism of compounds – gene associations); organoids
- Special data needs <-> farmers & WP3-WP4

Feedback and questions day 1

Main outputs from parallel sessions added to the respective blue boxes above

- how to incorporate specific protection goals concept to SPRINT?

Wednesday 14th of October
Presentation of WP4 PPT – (Eco)toxicological assessment • mixtures on terrestrial and aquatic ecosystems, animals and humans using a tiered approach • component-based approach • highly dependent on WP2 data to define the PPPs mixtures <-> when will data be available? • Ecosystem: Single-species assays, multi-species microcosms, toxic-specific biomarkers • Animal & Human: in silico modelling, in vitro testing, in vivo testing Q&A: micronuclei test outputs? significance of positive results in neurobehaviour assays? EPA results Padlet: • Will you prioritise what you test based on a lit review <-> dose- response poorly constrained? • Method for establishing a point of departure? Margin of exposure? Benchmark dose? Or NOAEL/ LOAEL plus safety factors? • Which human hormones will be assessed and how?
Presentation of WP5 PPT – Presentation of WP5 • Integrate the results • Create exposure maps and association to EPAH health effects • Upscale toolbox • Toolbox: 5 key features; 3 tools; inputs & example outputs per tool • Upscaling <-> layers + modelling => + toxicity and ecotoxicity data + population => EPAH health risks Q&A: spatial and temporal resolution (upscaling)?<= endpoints, data availability Padlet: • linking exposure to effects implies very high doses • probability distribution functions conditioned by expert inputs => probabilistic maps • how to address differences in data availability and data quality in WP5? • CSS results serve to verification of models, not to extrapolate
Presentation of WP6 PPT – Cost-benefit analysis • environmental and economic impacts/sustainability • life cycle analysis-econometric analysis/life cycle impact assessment • agent-based simulation model: strategies for PPP reduction, scenarios, trade-offs • upscaling - economic surplus modelling & sensitivity testing • joint synthesis and ranking of innovations - burden shifting Padlet: • Circular economy and use of LCA methodologies - link to WP7 • WP6 data needs to be added to WP2 questionnaires <-> ethical application package • sustainability usually includes a social dimension alongside the environmental and economic - why do you exclude the social?
Presentation of WP7 PPT –Transition pathways and policy recommendations • transition pathways: global health approach; drivers, barriers and lock-ins – mechanisms locking food systems into an undesirable state; what is 'more sustainable'? • innovative policy and regulation recommendations <-> stakeholders • research agenda on plant protection <-> EFSA Q&A: qualitative interview - WP2 questionnaires <-> ethical application package; time for/new WP7 interview? policy mailing list? Padlet: • how to evaluate inputs from the different WPs "as a whole", since results from risk, probabilistic, mechanistic, sustainability, and other approaches might not be fully aligned or might even be perceived as contradictory ?<-> various WPs' outputs - set of recommendations

Wednesday 14th of October

Presentation of WP8

PPT – Dissemination, communication and exploitation

- Dissemination & exploitation: WP & CSS leaders; key-audiences/end-users, events
- Awareness-raising and Communication (general public): tools – leaflet, brochures, newsletter, press releases, blog, practice abstracts (EIP-AGRI), social media, etc
- website: user login, share news, repository of SPRINT documents (link SURFdrive)
- data management plan: SURFdrive? type and size of data, different sharing options

Q&A: leaflet/brochures <-> explore benefits for farmers (WP1–Engagement plan); networks; communication efforts – approach (emails, living documents)

Padlet:

- advisory sessions or package for farmers? <-> transitions

Compound selection

PPT - PPP component selection

- PPP components can be active ingredients, metabolites and co-formulants
- Component-based approach: 'CSS mixture' = five most relevant PPP components
- draft protocol – justify the selection & ranking of the most relevant PPP components
- PPP components data: properties, hazard, occurrence (WP2), societal concerns
- Information to be collected=>now: field testing (pre-screening), PPP application times

Q&A: list of pesticides in CSS poster - from farmers or general? Components <-> upscaling?; blood in field testing (requires ethics approval); selection of PPP influence sampling strategy, transportation, storage? List of compounds asap for lab preparations (to buy standards, optimize methods ...) (<= CSS posters + EU soils data as starting point?); hazard index-margin of exposure for prioritization; components with expected discrepancies between C & O farming

Padlet:

- Can all components be effectively modelled with available tools? or need to develop new or adapt existing tools?
- Timing:
  - when is the exact deadline for PPP levels measured in CSS?
  - no PPP data before spring

  And should farmers be asked only for PPP related to CSS specific crops or general (e.g. last 5 years <-> annual/rotational crops)?
- OBO experience-> also important to consider likelihood of detection components (avoid ending up with all < detection limit).

WP4 – E,P

- Aquatic components – only a couple partners involved
- Terrestrial components – earthworms OK, insects (other than bees?); New soil indicators – UH (field sampling)
- Follow up meeting to explore tasks - detailed tests only after M18
- Mixtures information needed <= CSS data and Hans/Paul S.
- Use of samples from CSSs?
  - If so <-> WP3; Microcosms? Soil?
  - CSS only used only to define mixtures?

WP4 – A, H

- Clarification of the new indicators (sharing samples/tissues, etc)
- List of who does what?
- - Clear distribution of tasks done
  - Analysis responsible/budget – needs clarification (microbiome mostly)
  - detailed tests only after M18 <-> some flexibility <= CSS data needed
- Reallocation of budget according to test outcomes? And interest to follow up WPs?
- concentrations selection <–> dose response modelling, benchmarks aimed, etc

Wednesday 14th of October
WP3/WP5 • spatial and time resolution of models • graphic overview for approach in E-P, A, H • Data management • Toolbox – WU person responsible?<= depends on setup of the toolbox (inputs and outputs must be clarified) <= NEPTUNE has experience
WP6/WP7/WP8-CSS leaders Carrousel • WPs data wishlist feasible for CSS, CSS managers? - Interviews Maximum time? How? • first series of interviews with CSS – when? • Confidentiality of farmers' data maybe be a problem=> clear rules <-> ethics • Finalize protocols/questionnaires by end of Nov <->ethics • Motivation boosters • Spokesperson for CSS managers – Trine & Paula • Guidance on stakeholder recruitment <-> WP1
Detailed planning for the first 18 months *See table with agreements and follow-up actions below*
Feedback and questions day 2 *Main outputs from parallel sessions (added to the respective blue boxes above)*

Thursday 15th of October
Data management plan and tools PPT - Data management plan • Information about data & data format =>? 1st draft template, input from people generating data needed • Metadata content and format=> PostgreSQL, SQLite; the dataverse project • access, sharing, and re-use => FAIR data principles • Long-term storage and data management Q&A: size of (processed) data; publish datasets first?; data protection; null values; data owners (for publishing)? contact persons (for answering data); access to data – within and outside consortium; Data management plan <-> 1st version ASAP ethical approval => then updated, living document Padlet: • Participants need to be informed who has access to information that links retrieved data to an individual, the objectives of the study, and which data analyses will be performed with what aim <-> ethics and GDPR approval; • unique pre-defined system of identifiers, so that it is clear which case study data come from, if it is environmental, questionnaire, other kind of data. • Reviews data go into the database?
Presentation of WP10 PPT -WP10 Ethics requirements • Support CSS coordinators (human subjects, endangered species), labs (human volunteers and/or use human cells and tissues; tests with animals), track records/documents for EC => which? • Helsinki Declaration for human subjects • 3R: Replace, Reduce, Refine • General Data Protection Regulation (GDPR) <-> SPRINT • Sample and data transfer agreements will have to be signed by both sending and receiving partners • Informed Consent from HBM4EU project can be used

Thursday 15th of October
Presentation of WP10 • Submission of study protocol for ethics approval => Documents normally requested: - WP2 Study protocol (recruitment, inclusion/exclusion, power calculation, etc.) - Information to the study participant - Informed consent form - Questionnaires and diaries - Exemption for insurance (depending on the risk for the study person) - Further national requirements Q&A: ethics approval <-> study participants; participatory events in the CSS <-> GDPR; involve physicians in the approach? Padlet: • Imagine the neighbour will get the data from us he/she has high PPP levels in the body. The link to the farmer is clear for him/her although they will not see the results mutually. What will we do?
Detailed planning for the first 18 months *See table with agreements and follow-up actions below*
Feedback and questions • how will the data analysis be structured? • reference manager(s) in SPRINT (slido) => website • Record/report any dissemination activity – spreadsheet in website • set up a project calendar of meetings – spreadsheet in website • updates in the balloons / people involved - spreadsheet in website • Deliverable review committee • Higher involvement of EFSA <-> Dieter, Gabriela • WP3 <-> EUROMIX, EFSA mixture working group • Related projects => Inform coordination • PAB meeting?

Minutes - agreements and follow-up actions

The table includes tasks (in light grey cells), and respective sub-tasks (in white cells). Tasks starting after M18 (28 FEB 2022) were not explored (see annex 2 – for the timeline of these tasks). The partner(s) leading and partners involved in each task are in line with the grant agreement, for sub-tasks often appears the name of specific persons. The table includes all deliverables due dates (in case of multiple deliverables per task with the same due date, this date appears repeated in the last column).
CSS-L = CSS leaders; WP-L=WP leaders; M = month; m = milestone; ASAP = as soon as possible, tbd = to be defined

TASK	ACTION	Partner leading	Other partners/people involved	M Deliverable (Deadline task); *Deadline milestone*
WP1				
T1.1	Project Stakeholder Advisory Group	LQM	-	M60 (31 AUG 2025)
	Identify possible members	LQM	WU	ASAP
T1.2	Stakeholder Platforms	LQM	UBERN,ECOLOGIC, CSS-L	M10 (30 JUN 2021)
	Identification of stakeholders - CSS/regional and national level?	LQM	CSS-L	30 NOV 2020
	Engagement plan and engagement guidelines	LQM	WP-L	30 NOV 2020
	General leaflet & brochure	CCRI	WP-L	31 OCT 2020
	Farmer leaflet (list of benefits)	CCRI	CSS-L and WP-L	31 OCT 2020
T1.3	Stakeholder workshops	LQM	UBERN,ECOLOGIC, CSS-L	M60 (31 AUG 2025)
	LINK WITH ENGAGEMENT PLAN clarify workshops needed - which, how many, When, goals, content	LQM	WP-L	30 NOV 2020
	meet CSS-L	LQM	CSS-L	ASAP
	Identify training needs (training for CSS-L)	LQM	WP2, 3?, 6, 7, 8 10?;	ASAP
	Workshop for CSS-L (engagement strategy, training on sampling, questionnaires)	LQM	WP2, 3?, 6, 7, 8 10?; CSS-L	30 NOV 2020
	Workshop for "farmers; non-farmers; consumers; doctors; other stakeholders" in CSS (project introduction, transition ways & innovative practices)	LQM	WP2, CSS-L	30 NOV 2020
	Workshop (engagement, update)	LQM	CSS-L	MARCH 2021, and then quarterly
WP2				
T2.1	Monitoring plan for CSS and capacity building	UBERN	AU, LQM, DTU, FIBL, CSS-L	M6 (28 FEB 2021)
	Harmonized monitoring plan (draft)	UBERN, AU	WP6-7, Frank, Herman, Nelson, Martin, Juergen - Dirk	30 NOV 2020
	Ethics application (Harmonized Monitoring plan; Ethics – bats and humans)	CSS-L	Ethics committee, Herman	DEC 2020, before Christmas
T2.2	Literature review and collection of existing data	UBERN	AU, IISPV, CSS-L	M12 (31 AUG 2021); *m1 (31 MAY 2021)*
	Approach, review keywords, etc	UBERN	IISPV, SKU-T3.1	DEC 2020

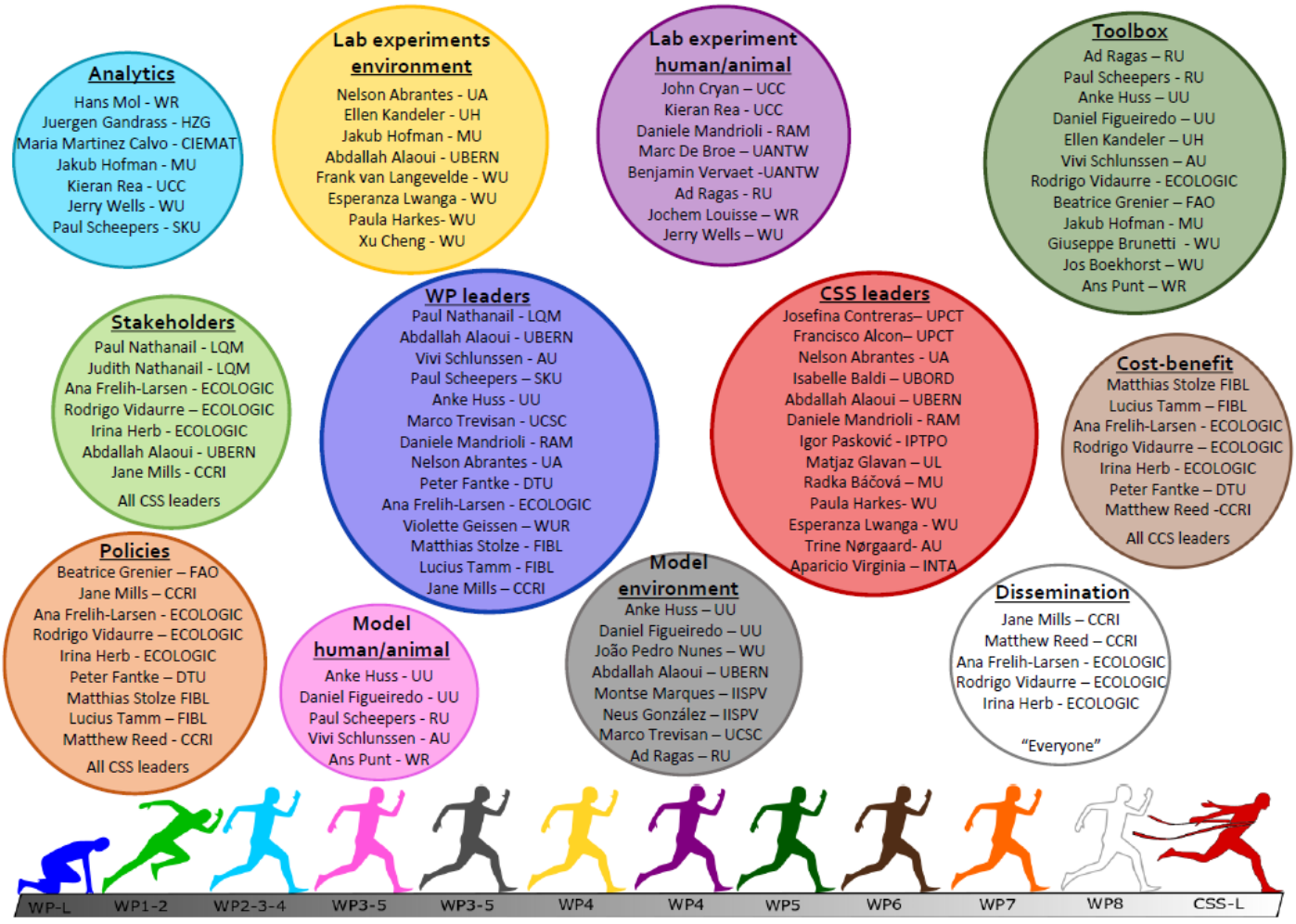
TASK	ACTION	Partner leading	Other partners/people involved	M Deliverable (Deadline task); *Deadline milestone*
WP2				
T2.3	Data collection and analysis in CCS	AU	UBERN, WU, SKU, VZZ, CSS-L, Analytic partners	M18 (28 FEB 2022) M24 (31 AUG 2022)
	Sample and data flow	AU/UBERN	WP-L, Vera, Hans, Eloi	ASAP
	Compile labs addresses - shipping	Vera		DEC 2020
	Prepare Interviews/Questionnaires data for work in CSS	AU	All WP-L	30 NOV 2020
	Field testing (Sample collection & shipping); PPP use and distribution data collection	CSS-L	Vera, Hans	25 NOV 2020; DEC 2020
	Perform PRE-sample PPP analysis	Hans		DEC 2020
	Sample analysis distribution	Hans/Vera	Analytic partners	ASAP
	Harmonize analytical protocols	Hans/Vera	Analytic partners	JUN 2021?
	Sample and data collection	CSS-L	AU/UBERN	growing season 2021
	Perform sample analysis	Analytic partners		DEC 2021
	Confirmation of data owners (data management)	Abdallah, Vivi	Paula, Eloi	tbd
T2.4	Testing and validation of approach at CSS	UBERN	SKU, AU, WU, FIBL, CSS-L	M36 (31 AUG 2023)
T2.5	Identifying innovative management practices	UBERN	FIBL, DTU, IISPV, RU, ECOLOGIC, CSS-L	M46 (30 JUN 2024); *m2 (28 FEB 2023)*
	Identifying innovative management practices	UBERN	WP6	tbd
WP3				
T3.1	Mine existing data for modelling at CCS	IISPV	SKU, UU, DTU	M12 (31 AUG 2021); *m3 (31 DEC 2020)*
	New proposal from Neus (PECO)	IISPV	SKU, UBERN	DEC 2020
T3.2	Complete exposure data with CCS for plant and ecosystem.	UCSC	WU, UBERN, SKU, UU	M36 (31 AUG 2023); *m4 (31 OCT 2021)*
	Clarify protocols, models and data needed, inc. for models improvement	UCSC	WP5, WP2, CSS-L	30 NOV 2020
	Clarify CSS coverage (selection criteria) - ecosystem	Paul S, Marco/Nicoleta	WU-Dirk	30 NOV 2020
	Complete exposure data with CSS data for animals and humans	SKU	AU, UU	30 NOV 2020
T3.3	Complete exposure data with CSS data for animals and humans	UU	AU, SKU	M36 (31 AUG 2023)
	Protocols for wristbands	UU, SKU		30 NOV 2020
	Protocol for cats	UU		31 JAN 2021?
	food frequency questionnaires?	UU	AU (Vivi), CSS-L	30 NOV 2020
	Clarify CSS coverage (selection criteria) – Animals and Humans	Paul S, Marco/Nicoleta		30 NOV 2020
T3.4	Validate exposure estimates	SKU	WU, WR, UU	M48 (31 AUG 2024)
T3.5	Provide exposure estimates for C-I-O-FS	UU	SKU	M48 (31 AUG 2024) M48 (31 AUG 2024)

TASK	ACTION	Partner leading	Other partners/people involved	M Deliverable (Deadline task); *Deadline milestone*
WP4				
	Selection of components – Ecosystem, animal, human	Paul S. Hans	Nelson, Daniele	Feb. 2022
T4.1	Assess effects of PPPs' mixtures on ecosystem health	MU & UAVR	UH, WU, UBERN, DTU, AU, WR, CIEMAT	M48 (31 AUG 2024) M48 (31 AUG 2024) M48 (31 AUG 2024); *m5 (30 NOV 2021)*
	Confirmation on tasks, analytics, data and tissues flow	Nelson, Jakub		ASAP
	Confirmation of data owners (data management)	Nelson, Jakub		tbd
	Ethics - for fish	Nelson	Paul S., Daniele, Vivi	30 NOV 2020
T4.2	Assess effects of PPPs' mixtures on animal health	RAM	AU,WU, UANT, WR	M36 (31 AUG 2023); *m6 (31 JAN 2022)*
	Confirmation on tasks, analytics, data and tissues flow	Daniele	Martin, Paul S.	April 2021
	Confirmation of data owners (data management)	Daniele		tbd
	Ethics - Chicken	Martin	Paul S., Daniele, Vivi; Martin	30 NOV 2020
T4.3	Assess effects of PPP mixtures on human health	RAM	SKU, WU, UCC, WR	M48 (31 AUG 2024) M48 (31 AUG 2024)
	Confirmation on tasks, analytics, data and tissues flow	Daniele	Paul S.	APRL 2021
	Confirmation of data owners (data management)	Daniele		tbd
	Ethics - Human	Daniele	Paul S., Daniele, Vivi	30 NOV 2020
WP5				
T5.1	Toolbox development	WU	SKU, UU, MU, UH	M48 (31 AUG 2024); *m7 (28 FEB 2022)*
	Define data/models flows (Cost-Benefit?)	WU	UU; Jos, Eloi; WP6	31 DEC 2020
	Define health endpoints (WP3; ethics application)	WU, Anke	Paul S., Marco	30 NOV 2020
T5.2	Data mining for upscaling	MU	SKU, WU, FAO, UU	M30 (28 FEB 2023); *m8 (30 JUN 2022)*
	Concept data for model	MU	task 2.2., 3.1, WU	tbd
T5.3	Health impact assessment and creating maps.	MU	WU, AU, UU, SKU, DTU	M60 (31 AUG 2025)
T5.4	Testing of the global applicability	FAO	MU, WU	M60 (31 AUG 2025)
WP6				
	Clarify information for the questionnaires (ethics)	DTU, FIBL	WP2, Paul S., Daniele, Vivi	30 NOV 2020
	Confirm the information needed for the models (WP2; CSS-L; external)	DTU, FIBL	CSS-L-WP2	30 NOV 2020
	Coordination of WP1, 2, 7	DTU, FIBL	WPs 1, 2, 7	ON GOING
	Links with toolbox	DTU, FIBL		ON GOING

TASK	ACTION	Partner leading	Other partners/people involved	M Deliverable (Deadline task); *Deadline milestone*
T6.1	Human and environmental health impacts and economic burden at the farm level	DTU	FIBL, IISPV, CSS-L, ECOLOGIC	M30 (28 FEB 2023); *m9 (31 AUG 2021)*
T6.2	Health damages and external costs at regional level	DTU	FIBL, IISPV, CSS-L, ECOLOGIC	M36 (31 AUG 2023)
T6.3	Performance/ ranking of PPP reduction strategies at farm level	FIBL	DTU, IISPV, ECOLOGIC, CSS-L	M42 (29 FEB 2024)
T6.4	Upscaling scenarios & sensitivity analysis	FIBL	DTU, IISPV, ECOLOGIC, CSS-L	M48 (31 AUG 2024)
T6.5	Performance/ ranking of PPP reduction strategies at regional level	FIBL	IISPV, ECOLOGIC, CSS-L	M54 (28 FEB 2025)
WP7				
	Clarify information for the questionnaires (ethics)	ECOLOGIC	WP2, Paul S., Daniele, Vivi	30 NOV 2020
	Research plan (7.1 & 7.2 - CSS involvement)	ECOLOGIC		tbd
	Identify research needs (EFSA, EU...; DIFFERENT EC strategies)	ECOLOGIC	Gabriela (PAB)	MAY-JUN 2021
	Identify relevant events	ECOLOGIC	Jane	ONGOING
	Clarify SPRINT input for public consultation (EC)	ECOLOGIC	Jane; WU	FEB-MAR 2021
	Workshops with EC stakeholders?	ECOLOGIC	WP1	tbd
	Brainstorm with EC players, goals	ECOLOGIC, WU	tbd	tbd
T7.1	Identify lock-ins and barriers	ECOLOGIC	CCRI, FIBL, DTU, LQM, FAO, CSS-L	M28 (31 DEC 2022); *m10 (31 MAY 2021)*
T7.2	Develop a baseline understanding for transition	ECOLOGIC	CCRI, FIBL, DTU, LQM, FAO, CSS-L	M40 (31 DEC 2023); *m11 (28 FEB 2022)*
T7.3	Develop transition paths towards more sustainable plant production	ECOLOGIC	CCRI, FIBL, DTU, LQM, FAO, CSS-L	M60 (31 AUG 2025); *m12 (31 DEC 2023)*
WP8				
	Clarify information for the questionnaires (ethics)	CCRI	WP2, Paul S., Daniele, Vivi	30 NOV 2020
T8.1	Set up project website and intranet portal	WU	CCRI	M3 (30 OCT 2020)
T8.2	Dissemination and exploitation activities	CCRI	ALL	M12 (31 AUG 2021) M60 (31 AUG 2025) M60 (31 AUG 2025)
	Template - main audience for WP outputs	CCRI	WP-L	APR 2021
	Gather information needs for/from stakeholders/farmers	CCRI	CCS-L, WP2, WP1	FEB-MAR 2021
T8.3	Awareness raising and communication activities	CCRI	ALL	M12 (31 AUG 2021) M60 (31 AUG 2025)
	Identify key audiences – online document	CCRI	ALL	30 NOV 2020
	2 types of leaflets for CSS leaders	CCRI	WP-L, CCS-L, translators	30 OCT 2020
	Communication guidance & protocols for partners	CCRI		JAN 2021
	plan for different scales - CSS-> EC/GLOBAL	CCRI	CCS-L, WPs 1, 7	M12 (31 AUG 2021)
T8.4	Data management	WU	ALL	M6 (28 FEB 2021)
	Data management DRAFT	WU	WP-L, analytics	30 NOV 2020

TASK	ACTION	Partner leading	Other partners/people involved	M Deliverable (Deadline task); *Deadline milestone*
WP9				
	Keep track of all deliverables – participant portal & Grant chart.	WU	Deliverable review committee	1 month before to WU/SKU (E-P/A-H)
	Activity and finantial reports	all	WU	1 month before delivery date.
T9.1	Activity management	WU, SKU	All	M2 (31 OCT 2020)
T9.2	Financial and legal management	WU	-	-
	Financial workshop	WU (Rishi)	All	<DEC 2020
T9.3	Gender balance	WU	All	M24 (31 AUG 2022)
T9.4	Organisation of meetings	WU, SKU	All	M60 (31 AUG 2025)
WP10				
	ethics approval CSS	CSS-L	WP2, Paul S., Daniele, Vivi	FEB 2021
T10.1	Implement animal studies according to approved protocols	SKU		M12 (31 AUG 2021)

Annex 1 – SPRINT key persons ('SPRINT baloons')



Annex 2 – SPRINT GANTT CHART

Year	Sep-20 1						Sep-21 2						Sep-22 3						Sep-23 4						Sep-24 5					
Month	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
T1.1: Project Stakeholder Advisory Gro																														D1.2
T1.2: Stakeholder platforms.					D1.1																									
T1.2: Stakeholder workshops.																														D1.3
T2.1:Monitoring plan for CSS and capa		D2.1																												
T2.2: Literature review and collection o				*M1*	D2.2																									
T2.3: Data collection and analysis in CC								D2.3			D2.4																			
T2.4: Testing and validation of approacl																	D2.5													
T2.5: Identifying innovative managemer																*M2*						D2.6								
T3.1: Mine existing data for modelling a		*M3*				D3.1																								
T3.2: Complete exposure data with CC							*M4*										D3.2													
T3.3: Complete exposure data with																	D3.3													
T3.4: Validate exposure estimates																							D3.4							
T3.5: Provide exposure estimates for C																					D3.5 & D3.6									
T4.1: Assess effects of PPPs' mixtures								*M5*												D4.1&D4.2&D4.3										
T 4.2: Assess effects of PPPs'									*M6*								D4.4													
T4.3: Assess effects of PPP mixtures																						D4.5&D4.6								
T5.1: Toolbox development.									*M7*														D5.1							
T5.2: Data mining for upscaling.											*M8*			D5.2																
T5.3: Health impact assessment and cr																														D5.3
T5.4: Testing of the global applicability																														D5.4
T6.1: Human and environmental health						*M9*								D6.1																
T6.2: Health damages and external cost																	D6.2													
T6.3: Performance/ ranking of PPP																				D6.3										
T6.4: Upscaling scenarios & sensitivity																							D6.4							
T6.5: Performance/ ranking of PPP																										D.6.5				
T7.1: Identify lock-ins and barriers					*M10*								D7.1																	
T7.2: Develop a baseline understanding										*M11*									D7.2											
T7.3: Develop transition paths towards																				*M12*										D7.3
T8.1: Set up project website and intrane	D8.1																													
T8.2: Dissemination and exploitation act						D8.3																								D8.5 & D8.6
T8.3: Awareness raising and communic						D8.4																								D8.7
T8.4: Data management.		D8.2																												
T9.1: Activity management	D9.1																													
T9.2: Financial and legal management																														
T9.3: Gender balance											D9.2																			D9.2
T9.4: Organisation of meetings						D9.3					D9.3						D9.3						D9.3							D9.3
T10.1: Implement animal studies accor						D10.1																								

Disclaimer: This report is part of a project that has received funding by the European Union's Horizon 2020 research and innovation program under grant agreement number 862568.

Annex 3 – overview of deliverables of first 18 months (28 Feb 2022)

WP No	Del Rel.	D	Title	D	Lead Beneficiary	Nature	Dissemination L	Est. Del. Date (annex I ▲
WP9	D9.1		Consortium Agreement signed by all partners		WU	Report	Confidential,	31 Oct 2020
WP8	D8.1		SPRINT project website and secure intranet portal		WU	Website	Public	30 Nov 2020
WP9	D9.3		Minutes of the annual plenary meetings		WU	Report	Public	30 Nov 2020
WP8	D8.2		Data Management Plan		WU	ORDP: (	Confidential,	28 Feb 2021
WP2	D2.1		Monitoring plan for assessing EPAH health at CSS		UBERN	Report	Public	28 Feb 2021
WP1	D1.1		Report on the composition of the stakeholder platforms at ea		LQM	Report	Confidential,	30 Jun 2021
WP10	D10.1		A - Requirement No. 6		WU	Ethics	Confidential,	31 Aug 2021
WP2	D2.2		Literature review		UBERN	Report	Public	31 Aug 2021
WP3	D3.1		Three systematic reviews for modelling the exposure of PAH		IISPV	Report	Public	31 Aug 2021
WP8	D8.3		Updated D&E plan		CCRI	Report	Public	31 Aug 2021
WP8	D8.4		Updated AR&C plan		CCRI	Report	Public	31 Aug 2021
WP2	D2.3		Inventory of PPP distribution and accumulation in EPAH, incl		UBERN	Report	Public	28 Feb 2022

Annex 4 – overview of milestones of first 18 months (28 Feb 2022)

Number	Name	Lead Beneficiary	Delivery Date (Annex I)
3	Model data requirements identified	IISPV	31 Dec 2020
1	CSS study protocol defined and ethics approval received.	UBERN	31 May 2021
10	Design of stakeholder questionnaires for use in WP7.	ECOLOGIC	31 May 2021
9	Collection of existing data for use in WP6 completed.	DTU	31 Aug 2021
4	Model chains defined, including input and output relationships.	UCC	31 Oct 2021
5	Ecotoxicological procedures defined.	MU	30 Nov 2021
6	Assessment procedure to quantify effects of PPPs' mixtures on animals	RAMAZZINI	31 Jan 2022
7	Structure, functionality and data input and output requirements of the Global Health Risk Assessment Toolbox defined.	WU	28 Feb 2022
11	Design of policy related structured interviews.	ECOLOGIC	28 Feb 2022