



Veterinærinstituttet
Norwegian Veterinary Institute



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Food Safety & Animal Insight



CENTRAL VETERINARY INSTITUTE
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Universidade do Minho



CReSA^R

Centre de Recerca en Sanitat Animal



Annual Meeting 2013
Aberdeen 17 September

Agenda

- 18:15-20:45 **WP Committee Meetings 1-6**
- 20:45-20:55 Break and Meeting of the **Executive Board**
- 20:55-21:10 **General Assembly and end of meeting**

- Meeting of the **Advisory Board** will be by email and during CHRO

- **Participants**

Partner	Name	Partner	Name	Partner	Name
1 - NVI	Merete Hofshagen	5 - Dianova	Mogens Madsen	10 - CReSA	Marta Cerdà-Cuéllar Roser Dolz, Nonito Pagès
2 - DTU	Hanne Rosenquist, Birgitte Borck Høg, Birthe Hald, Helle Mølgaard Sommer, Maarten Nauta, Mette S Rousing Søndergaard, Steen Nordentoft	6 – CVI/LEI	Peter Willemsen	12 - NVRI	Jacek Osek Kinga Wieczorek
3 - ULIV	Nicola Williams, Yvette Merga, Frieda Jorgensen	8 - UMinho	Joana Azeredo (Skype)	Advisory Board	Arie Havelaar, Eva Olsson Engvall
4 - UU	Jaap Wagenaar, Birgitta Duim, Kasia Radomska	9 – UNEW	Apologies	In addition, 3 people from Nutreco attended the WP Committee Meetings.	

WP1 Committee Meeting

- Tom Humphrey/Nicola Williams, ULIV
- Other participants
 - All except DIA, CVI-LEI, UMinho

Task 1.1

Risk factors for Camp. colonization in broilers

- Task leader: Birgitte Borck Høg, DTU
- Participants: NVI, ULIV, UU, CSA, NVRI

No	Deliverable	Status	Due
1.1.1	Questionnaire and protocol for data collection agreed with all participants	✓	
1.1.2	Report on broiler production across Europe (based on questionnaire)	✓	
1.1.3	Research publication of risk factors for flock colonization including climatic conditions	▶	Apr13 (exp. Mar14)
✓ = delivered, ▶ = started, — = not started			

Task 1.1

Risk factors for Camp. colonization in broilers

- Activities and results so far
 - Data from Denmark and Norway analysed
 - Questionnaire data
 - Surveillance data: 1st May to 31st Oct 2010 and 2011
 - Risk factors identified

Variable	Effect on prevalence
Age of house	Newest house → lowest prevalence
Biosecurity (ante-room/barrier)	High biosecurity → lowest prevalence
Country	Norwegian flocks → lower prev.
Density	High density → lower prevalence (only in Denmark)
Downtime	Low downtime → lower prevalence
Drinkers	Bells, nipples w. cups, nipples without cups: highest → lowest prevalence

Task 1.1

Risk factors for Camp. colonization in broilers

- Activities next project year
 - 2013: 20 farm study data have to be collated and merged with questionnaire data
 - Climate data will be added
 - Scientific paper drafted by beginning of 2014
- Problems
 - Extra questionnaire data and climate data must be added to data
 - Time
 - Analyses
 - Not full 2-year surveillance datasets from all countries
- Points for discussion
 - How to proceed – how do we deal with missing data?

Task 1.2

A longit. study of broiler flocks in UK and Spain

- Task leader: Tom Humphrey/Nicola Williams, ULIV
- Participants: UNEW, CS

No	Deliverable	Status	Due
1.2.1	Study protocol finalised	✓	
1.2.2	Data analysis of first-year intensive flock sampling in Spain and the UK	▶	Jun12 (exp. Dec13)
1.2.3	Paper on two-year study in UK and Spain	—	Feb14
1.2.4	Identification of management intervention to minimize risk of colonization of broiler flocks	—	Feb14

✓ = delivered, ▶ = started, — = not started

Task 1.2

A longit. study of broiler flocks in UK and Spain

- Activities and results so far
- UK
 - Sampling of flocks has now been completed and extra data (health and KPI data, plus climate) is being added to the database.
 - In total, 109 flock cycles (13-15 crops/farm) have been sampled at the 8 study farms, with 54% of flocks positive by boot sock.
 - Earliest positive: Day 9
 - Latest positive: Day 38 (average: Day 23)
- Spain
 - To date 58 flock cycles have been sampled from the 5 study farms, with 11-12 flocks per farm. Sampling in Spain will be finished by October 2013.
 - Earliest positive: Day 13 (cloacal swabs)
 - Latest positive: Day 39

Task 1.2

A longit. study of broiler flocks in UK and Spain

- Activities next project year
 - UK: To work with UNEW on data analysis and draft manuscripts
 - Spain: To finish data analysis and prepare a manuscript.
- Problems
 - UK: Some discrepancies between boot sock and caeca data on 8 farms (for Lincolnshire farms faecal samples could not be collected).
- Points for discussion
 - Do we use a combination of boot sock and caeca data or rely on boot sock data only for analysis?

Task 1.3

Importance of flies in transmission of *Campylobacter* to broiler flocks

- Task leader: Birthe Hald, DTU
- Participants: UNEW, ULIV, CSA

No	Deliverable	Status	Due
1.3.1	First-year report on flies	√	
1.3.2	Paper on the role of insects in colonization of broilers with <i>Campylobacter</i> in UK and Spain	—	Apr14

√= delivered, ▶= started, —= not started

Task 1.3 Importance of flies in transmission of *Campylobacter* to broiler flocks

■ Activities and results so far – Task 1.3.1

Fly species & prevalence	UK	Spain
Total number of flies	2193 (culture)	1304 (culture), 876 (additional PCR)
Most frequent fly species	Lesser housefly (<i>Fannia canicularis</i>) Dung fly (<i>Scatophagidae</i> sp.).	Housefly (<i>Musca domestica</i>)
Fly species with <i>Campylobacter</i> carriage	Blow fly (<i>Calliphora vomitora</i>) <i>Heliomyzidae</i> sp. Unknown species (batch culture)	Housefly (<i>Musca domestica</i>) Black garbage fly (<i>Ophyra</i> sp.) (PCR) Blow fly (<i>Calliphora</i> sp.) (PCR) Lesser housefly (<i>F. canicularis</i>) (PCR)
<i>Campylobacter</i> prevalence (culture)	0.3% (4.0% of batches)	1.7%
<i>Campylobacter</i> sp. isolated	<i>C. jejuni</i> , <i>C. coli</i> , <i>C. lari</i> , other <i>C.</i> sp.	<i>C. jejuni</i> , <i>C. coli</i>
Typing	MLST cc 45 (ST-25, ST-137, ST-1701)	PFGE
Evidence of transmission	No	Yes

Task 1.3

Importance of flies in transmission of *Campylobacter* to broiler flocks

- Activities and results so far – **Task 1.3.2**
- Insect community analysis.
 - UK: Total 1771 insects trapped of which 82.5% were flies associated with livestock, dung or carrion and 1.5% were typical filth flies of the families *Calliphoridae*, *Fannidae*, and *Muscidae*.
 - Spain: Total 8351 insects from 17 orders trapped, of which ~77% were *Diptera*.
- Data generated to be formatted in excel spreadsheets for modelling by UNEW

Task 1.3

Importance of flies in transmission of *Campylobacter* to broiler flocks

- Activities next project year
 - UK: A manuscript is in preparation for fly culture work and a separate manuscript will be prepared based on the modelling of fly populations.
 - Spain: Data is being analysed and a manuscript is in preparation.

- Problems
 - None

- Points for discussion
 - None

Task 1.4

Distribution of *Campylobacter* subtypes in EU broiler production

- Task leader: Frieda Jorgensen, Nicola Williams, ULIV
- Participants: NVI, DTU, UU, CSA, NVRI

No	Deliverable	Status	Due
1.4.1	Paper on Campylobacter sub-types in EU broiler production	—	Apr14
√= delivered, ▶= started, —= not started			

Task 1.4

Distribution of *Campylobacter* subtypes in EU broiler production

- Activities and results so far
 - In total, 536 isolates have been subject to MLST, analysis is on-going.
 - Isolates from Poland, Norway and Spain, plus a small number of additional isolates from UK flocks which went positive early and fly isolates.
 - Norway: Most common clonal complex, CC-21, -45, but further ten CC represented (analysis still on-going).
 - Poland: Full profiles only obtained for a small number of isolates, but most common CC- 828, with six CC currently represented.
 - Spain: Analysis of sequence data very much on-going, but CC-828 most common clonal complex currently.
 - Data provided by Denmark and the Netherlands on sequence types.

Task 1.4

Distribution of *Campylobacter* subtypes in EU broiler production

- Activities next project year
 - Sequence analysis finished October. Prepare a manuscript on the final results.
- Problems
 - Some sequence plate failures, so repeats needed and trying to recruit someone to finish this work as Yvette has now left the project.
- Points for discussion
 - None

Task 1.5

Modelling in-house colon. of birds in relation to environment and bird welfare

- Task leader: Steven Rushton, UNEW
- Participants: ULIV

No	Deliverable	Status	Due
1.5.1	Quantitative assessment of the relative significance of risk factors in the study countries	—	Aug13
1.5.2	A pathway model which defines the interactions between risk factors leading to colonization	—	Oct13

√= delivered, ▶= started, —= not started

Task 1.5

Modelling in-house colon. of birds in relation to environment and bird welfare

- Activities and results so far
 - Currently formatting data from 8 farm UK study to provide to UNEW.
 - Models have been identified and prepared, but require the final dataset to run the analysis.

- Activities next project year
 - Analysis data from UK and Spain.
 - Prepare manuscripts.

- Problems
 - None

- Points for discussion
 - None

WP2 Committee Meeting

- Jaap Wagenaar, UU
- Other participants: all except NVI, DIA, UNEW, NVRI

Task 2.1

Fly screens add-on to biosecurity

- Task leader: Birthe Hald, DTU
- Participants: ULIV, CSA

No	Deliverable	Status	Due
2.1.1	List of study farms and control farms to be visited selected from list of Task 1.1	✓	
2.1.2	List of farms consenting to participate	✓	
2.1.3	Report for each study farm to approve biosecurity level and plan for mounting of fly screens	✓	
2.1.4	Fly screens delivered on farms	✓	
2.1.5	Logbooks filled in and collected – 18 farm study	—	Dec14
2.1.6	Database with Campylobacter results of farms in T2.1	—	Dec14
2.1.7	Paper on the effect of fly control in UK and Spain	—	Feb15

✓ = delivered, ▶ = started, — = not started

Task 2.1

Fly screens add-on to biosecurity

- Activities and results so far
 - UK: CamCon have sampled 24 farms (between June 12 and June 13) participating in the DEFRA study. These UK farms were retrospectively found to have biosecurity procedures insufficient to affect *Campylobacter* introduction ahead of the fly net intervention. No additional effect of fly screens were obtained. Flock *Campylobacter* prevalence were high year round (final data analysis not ready yet)
 - Comparison of sampling methods during summer 2012 showed good similarity between the PCR boot sock sampling and traditional culture of caecal content. in detecting *Campylobacter* infection of the flock.
 - Spain: Work has been focused on 1) upgrade of biosecurity from farm level to house level in cooperation with WP5, 2) running a pilot study of the functionality of fly screens on 2 farms, 3) Planning and launching (by June 13) a '18 farm study' to test for effect of house level biosecurity including fly screen.

Task 2.1

Fly screens add-on to biosecurity

- Activities and results so far
 - Conclusions about the fly screen pilot study in Spain:
 - During the two cycles with fly screen no strain on ventilation systems was detected.
 - Either no problems of increased power consumption of fans or performance loss thereof.
 - Nets collected very little dirt and no specific cleaning was needed.
 - There are good impressions of net strength, specifically in the house with the 'open' windows which was fully exposed to strong winds and anyway showed no sign of deterioration.

Task 2.1

Fly screens add-on to biosecurity

- **Activities next project year**
 - UK: Preparation of scientific publications of results in UK in cooperation with the DEFRA project.
 - Spain: Conducting the '18 farm study': 1) testing efficiency of biosecurity practiced on-farm, 2) Under the precondition that 1) show a clear effect in reducing flock Campylobacter prevalence during autumn/winter 2013-14, the additional effect of fly screens will be tested on a subset of farms.

- **Problems**
 - Spain: Implementing fully efficient on-farm biosecurity procedures over merely 3 broiler cycles is a big challenge.

Task 2.1

Fly screens add-on to biosecurity

■ Points for discussion

- Spain: By approximately 1 Feb 2014 we will realize the efficiency of biosecurity in Spain. If the biosecurity procedures is insufficient, can resources allocated for fly screen be redirected to enforce the upgrade of biosecurity in Spain ?
- If resources for fly screens are to be redirected to the further updating of biosecurity in Spain, should cooperation with the UK broiler integration and the 24 farms which participated in the DEFRA study, somehow be included in the remaining part of CamCon ?

Task 2.2

Phage therapy

- Task leader: Peter Willemssen, CVI-LEI
- Participants: UMinho, DTU

No	Deliverable	Status	Due
2.2.1	Collection of phages to be used for therapy to control Campylobacter	✓	Apr12
2.2.2	Paper on the efficacy and effectiveness of the use of phages to combat Campylobacter in field trials	—	Apr14
2.2.3	Paper on the effectiveness of phage therapy	—	Apr14

✓ = delivered, ▶ = started, — = not started

Task 2.2

Phage therapy

- Activities and results so far
 - Established (2.2.1-4, 2.2.6): lytic phage cocktail with broad host-range, produced in high amounts, phages characterized
 - *In vivo* / on farm animal experiments (2.2.5, 2.2.7):
 - CVI carried out three trials
 - Trial 1 and 3: no reduction in campylobacter
 - Trial 2: temporary 3-4 log's reduction
 - UMinho carried out 2 exploratory trials in farms with 100 000 birds. Apparently no reduction in campylobacter was observed. Two more trials are planned to be conducted in September.

Task 2.2

Phage therapy

- Activities next project year
 - Additional characterization of lytic phage's of used cocktail
 - Analyse data, publish results

- Problems
 - Host inactivation of phages and/or development of resistant strains hamper effective phage therapy for Campylobacter

- Points for discussion
 - Is phage therapy for campylobacter still an option?

Task 2.3

Vaccination

- Task leader: Jaap Wagenaar, UU
- Participants: CVI-LEI

No	Deliverable	Status	Due
2.3.1	Identification of immune response against <i>C. jejuni</i> subunit vaccines	√	
2.3.2	Identification of immune response against <i>C. jejuni</i> whole cell vaccines	√	
2.3.3	Protection against <i>C. jejuni</i> challenge after vaccination with <i>C. jejuni</i> subunit vaccines	▶	Apr13
2.3.4	Protection against <i>C. jejuni</i> challenge after vaccination with <i>C. jejuni</i> killed whole cell vaccines	▶	Apr14
√ = delivered, ▶ = started, — = not started			

Task 2.3

Vaccination

- Activities and results so far
 - In *ovo* vaccination with engineered vaccine yields immune response
- Activities next project year
 - Test functionality and efficacy of antibodies
- Problems
 - Solubility of vaccine at high dose
 - Dilution of antibodies during animal growth
 - Functionality of antibodies; antigen diversity
- Points for discussion
 - Add booster? Include other antigen(s)?

WP3 Committee Meeting

- Hanne Rosenquist (acting WP leader), DTU
- Other participants: NVRI

Task 3.1

Development of methods of quantification of *Campylobacter* in air

- Task leader: Mathilde Josefsen, DTU
- Participants: DTU

No	Deliverable	Status	Due
3.1.1	Establishment of methods of quantification of airborne <i>Campylobacter</i>	✓	
3.1.2	Definition of level of sensitivity	✓	
3.1.3	Publication on quantities of airborne <i>Campylobacter</i>	✓	
3.1.4	Identification of a suitable semi-automated technology allowing semi-continuous monitoring of airborne <i>Campylobacter</i>	✓	

✓ = delivered, ► = started, — = not started

Task 3.1

Development of methods of quantification of *Campylobacter* in air

- Activities and results so far
 - Methods established based on sampling through gelatin filters
 - 4 reports submitted
 - Establishment of methods
 - Definition of level of sensitivity
 - Quantities of airborne *Campylobacter*
 - Identification of semi-automated technology
- Activities next project year
 - The task is finished
- Problems
 - None
- Points for discussion
 - None

Task 3.2

Feasibility of real-time monitoring of *Campylobacter* in broiler flocks

- Task leader: Mathilde Josefsen, DTU
- Participants: NVRI

No	Deliverable	Status	Due
3.2.1	Knowledge of the airborne particle size distribution under various farming conditions	√	
3.2.2	Knowledge of the ratio of airborne particles and <i>Campylobacter</i> under various farming conditions	▶	Apr14
√ = delivered, ▶ = started, — = not started			

Task 3.2

Feasibility of real-time monitoring of *Campylobacter* in broiler flocks

- Activities and results so far
 - Sampling in DK and PL (boot swabs, air measurements, particle counts)
 - Data analysis
 - Scientific paper submitted *Towards a low cost, semi-continuous, and quantitative monitoring of Campylobacter by air-sampling in chicken flocks*. Conclusion: Air sampling on filters, coupled with qPCR, could detect Campylobacter before it could be detected in boot swabs.
- Activities next project year
 - Report on the ratio of airborne particles and Campylobacter under various farming conditions
- Problems
 - None
- Points for discussion
 - Technology transfer, the technology is available for all project partners

Task 3.3

Report on future research needs

- Task leader: Mathilde Josefsen, DTU
- Participants: DTU

No	Deliverable	Status	Due
3.3.1	Report on future research needs regarding diagnostic tools to detect Campylobacter in primary poultry production	▶	Apr14
√ = delivered, ▶ = started, — = not started			

Task 3.3

Report on future research needs

- Activities and results so far
 - Future diagnostic tools have been discussed and a review paper is being drafted *Detection of Campylobacter in the poultry production chain – From culture to genes and beyond*
- Activities next project year
 - Finishing and publishing the review
- Problems
 - None
- Points for discussion
 - None

WP4 Committee Meeting

- Maarten Nauta, DTU
- Other participants: all except DIA, UMinho, UNEW

- General: One year extension implied one year delay for all activities in WP4.

Task 4.1

Risk assessment

- Task leader: Maarten Nauta, DTU
- Participants: DTU

No	Deliverable	Status	Due
4.1.1	Research paper on the QRA model	▶	Feb15
√ = delivered, ▶ = started, — = not started			

Task 4.1

Risk assessment

- Activities and results so far
 - Model development started
 - Translation of task 1.1 output to WP4 input
 - Data request on expected results WP2
 - Impact of project extension
- Activities next project year
 - Continue model development:
 - impact of farm management (WP1)
 - impact of specific control measures (WP2)
 - NVI: observational study on Campylobacter concentrations: caeca, skins and carcass rinses
- Problems
 - Limited data availability
- Points for discussion
 - None

Task 4.2

Data collection and compilation

- Task leader: Hanne Rosenquist, DTU
- Participants: CVI-LEI, NVI, ULIV, UU, CSA, NVRI

No	Deliverable	Status	Due
4.2.1	Report on data collected for risk assessment and economics	▶	Feb15

√ = delivered, ▶ = started, — = not started

Task 4.2

Data collection and compilation

- Activities and results so far
 - Data workshop 2011
 - Data request on economics and RA
 - Questionnaire WP 1
 - Additional regional data (DK, NO)
 - Data request: what is available with partners?
- Activities next project year
 - NVI: literature search
- Problems
 - Limited data re RA
- Points for discussion
 - None

Task 4.3

Economics

- Task leader: Peter van Horne, CVI-LEI
- Participants: CVI-LEI

No	Deliverable	Status	Due
4.3.1	Research paper on the cost-effectiveness of interventions in different regions in Europe	▶	Apr15

√ = delivered, ▶ = started, — = not started

Task 4.3

Economics

- Activities and results so far
 - Collection on general economic data in countries and verification is finished
 - Definitions of most intervention measures have been made
 - Collection of specific economic data for most interventions is completed
 - Collection of human health data related to campylobacter has started
 - Collection import/export data of broilers and their meat mostly finished
 - Model for cost effectiveness mostly realised
 - First draft of the research paper
- Activities next project year
 - Finish data collection (impact intervention measures on prevalence, intervention measure costs, human health)
 - Further writing on research paper
- Problems
 - None foreseen
- Points for discussion
 - Task 4.1 should provide impact of control measures on prevalence on time

Task 4.4

Cost-effectiveness on interventions at farm and comparison with interventions post farm

- Task leader: Maarten Nauta, DTU
- Participants: CVI-LEI

No	Deliverable	Status	Due
4.4.1	Research paper on integration of risk assessment and economy	▶	Feb15

√ = delivered, ▶ = started, — = not started

Task 4.4

Cost-effectiveness on interventions at farm and comparison with interventions post farm

- Activities and results so far
 - Contacts DTU - LEI
- Activities next project year
 - Await results from other tasks
 - Guarantee that 4.1 + 4.2 + 4.3 = 4.4
- Problems
 - Overlap Task 4.3 and 4.4?
- Points for discussion
 - None

Task 4.5

Future data needs

- Task leader: Maarten Nauta, DTU
- Participants: CVI-LEI

No	Deliverable	Status	Due
4.4.1	Report on major outcome of WP4	—	Apr15
4.5.1	Report on future data needs	—	Apr15

√ = delivered, ► = started, — = not started

Task 4.5

Future data needs

- To be done

WP5 Committee Meeting

- Mogens Madsen, DIA
- Other participants: all except CVI-LEI, UMinho, UNEW

Task 5.1

Best Practice Manual for production of Camp-free chickens

- Task leader: Mogens Madsen, DIA
- Participants: all other participants in WP5

No	Deliverable	Status	Due
5.1.1	Best Practice Manual	▶	Dec14
√ = delivered, ▶ = started, — = not started			

Task 5.1

Best Practice Manual for production of Camp-free chickens

- Activities and results so far
 - Activities: Work on a basic Best Practice Manual carried out in Spain with CReSA as preparation for fly-screen studies in WP2.
 - Results: Illustrated biosecurity posters, Power Point presentations and check list produced.
- Activities next project year
 - Work on Best Practice Manual will continue. Will be based on the GHP Community Guide.
 - 1st draft should be available for comments by partners end 2014.
- Problems
 - The final version of the Best Practice Manual must incorporate any new knowledge generated in CamCon. This will probably only be available at the very end of the project.
- Points for discussion
 - None

Task 5.2

Specific targeted learning programmes for proficiency in implementing the “BPM for production of Camp-free chickens”

- Task leader: Mogens Madsen, DIA
- Participants: DTU, all other participants in WP5

No	Deliverable	Status	Due
5.2.1	Plan for distribution of the final E-learning product	—	Oct14
5.2.2	E-learning programme	—	Apr15

√ = delivered, ► = started, — = not started

Task 5.2

Specific targeted learning programmes for proficiency in implementing the “BPM for production of Camp-free chickens”

- Activities and results so far
 - A production plan for a pilot programme on biosecurity has been agreed with the subcontractor Conzentrare, and production will start October 2013.
- Activities next project year
 - A road map for distribution will be developed in cooperation with AVEC and COPA-COGECA (industry associations).
 - First E-learning programme (on biosecurity) will be produced end 2013.
 - A series of other programmes linked to the topics of the Best Practice Manual will be produced and tested during 2014.
- Problems
 - E-learning programmes must incorporate any new knowledge generated in CamCon. This will probably only be available at the very end of the project. However, programmes can be edited to include new information.
- Points for discussion
 - None

Task 5.3

Voluntary Certification Programme

- Task leader: Mogens Madsen, DIA
- Participants: all other participants in WP5

No	Deliverable	Status	Due
5.3.1	Voluntary Certification Programme	—	Apr15

√ = delivered, ► = started, — = not started

Task 5.3

Voluntary Certification Programme

- Activities and results so far
 - None. Activity not started yet.
- Activities next project year
 - Activity follows on to the development of the Best Practice Manual that will be the backbone of a certification programme. Activity expected to take off in the 2nd half of 2014.
- Problems
 - None
- Points for discussion
 - None

WP6 Committee Meeting

- Merete Hofshagen, NVI
- Other participants: all

Task 6.1 – 6.3

CA, Management team, Web site

- Task leader: Merete Hofshagen, NVI
- Participants: all

No	Deliverable	Status	Due
6.1.1	The Consortium Agreement signed by all participants	√	
6.2.1	Management support team appointed	√	
6.3.1	The Project web site established	√	

√ = delivered, ► = started, — = not started

Task 6.1 – 6.3

CA, Management team, Web site

- Activities and results so far
 - According to plan
- Activities next project year
 - Regular updates on Web
- Problems
 - None
- Points for discussion
 - None

Task 6.4

Establish and maintain the Communication and Dissemination Plan

- Task leader: Merete Hofshagen, NVI
- Participants: all

No	Deliverable	Status	Due
6.4.1	Plan for the use and dissemination of foreground presented	▶	Jun14

√ = delivered, ▶ = started, — = not started

Task 6.4

Establish and maintain the Communication and Dissemination Plan

- Activities and results so far
 - Draft plan on Participant Pages
 - Established list of publications
- Activities next project year
 - Active dissemination nationally
 - Finalise Communication and Dissemination plan
 - Maintain / update list of publications
- Problems
 - None
- Points for discussion
 - None

Task 6.5 – 6.6

Meetings and reports

- Task leader: Merete Hofshagen, NVI
- Participants: all

No	Deliverable	Status	Due
6.5.1	Reports of project's meetings	√, √, √ ▶ —	Oct13 Feb14, Apr15
6.6.1	Regular reports to the European Commission	√, √ —	Apr15
6.6.2	Report on awareness and wider societal implications	—	Apr15

√ = delivered, ▶ = started, — = not started

Task 6.5 – 6.6

Meetings and reports

- Activities and results so far
 - Annual and Quarterly Meetings + 2 Periodic Reports to COM
 - Economical reporting to Coordinator every 6/9 months
- Activities next project year
 - Meetings and Minutes
 - Economical reporting to Coordinator every 9 months
 - Send Deliverables to Coordinator for uploading to COM
- Problems
 - Amendment Dec 2012 time consuming – but OK result
- Points for discussion
 - None

Executive Board Meeting

■ Discussions

- The Executive Board was in general pleased with the progress, but emphasized the need for speedy delivery of results in the year to come!

■ Decisions

- None

General Assembly

- The Coordinator thanked all participants for their efforts during the last year, and also the extent of presentations from the CamCon project at CHRO.
- The conclusion from the Executive Board Meeting – the need for speedy delivery of results in the year to come - was emphasized!
- The WP leaders will during the autumn discuss when and where the next Annual Meeting will take place.

- Decisions
 - None