



eip-agri  
AGRICULTURE & INNOVATION

## EIP-AGRI SEMINAR

EIP-AGRI: FROM OPERATIONAL GROUP PROJECT TO IMPACT

**17-18 OCTOBER 2018 - SPOLETO, ITALY**



funded by

## Breakout session 17 October 2018

### Supporting document 'Achieving impact through smart reporting'

These documents will serve the breakout session on reporting on day 1. They are 3 examples from countries with Operational Groups with already finished projects. You will be able to talk with the authorities who developed these forms.

From an administrative point of view, once accepted, these reports are the proof that the "operation can be completed" (Art 2 of R.1305/2013<sup>1</sup>). This means that the **project implementation is finished and that – if there are no other obstacles – all related payments to beneficiaries can be made.**

Article 35 leaves Member States free to implement a reporting format they think is informative enough and complete. There is no specific guidance for EIP-AGRI Operational Groups in this regard, nor for other cooperation projects.

This kind of reporting should not be confused with the reporting obligation which EIP-AGRI Operational Groups have according to Article 57(3). That information has as **main purpose to network Operational Groups among each other and with other projects and actors.** As indicated in the Annex of the EIP Guidelines, the EIP format is much more succinct (practice abstracts take about 20 lines) and is meant to contain **practical information and recommendations** for end users of the project results. The EIP Common format, which is also used by the H2020 Multi-Actor projects, mainly serves for contacting, and feeds into the unique EU practice database on the EIP-AGRI website.

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<sup>1</sup> Art 2 R1305 – 'Completed operation' means an operation that has been physically completed or fully implemented and in respect of which all related payments have been made by beneficiaries and the corresponding public contribution has been paid to the beneficiaries.

# Outline proposal for the final report for Operational Groups – Germany

Courtesy translation of [‘Gliederungsvorschlag für den Abschluss-bericht einer Operationellen Gruppe’](#)

## A. Short description (in everyday language)

### I. Initial situation and needs

*What was the (practical) problem or the "innovation gap" that led to the OG partnership and the innovation project proposed?*

### II. Project objective and concrete task(s)

### III. Members of the OG (and how they contribute to the OG objectives)

### IV. Project area

### V. Project duration and dates

### VI. Budget

### VII. Implementation and description of activities

### VIII. Summary of the results

## B. Details

### I. Use of the grant

*Detailed use in relation to the project's objectives and possible further use of investment goods (including a list of the main cash items)*

### II. Detailed explanation of the situation at the beginning of the project

*a) Situation at the start of the project*

*b) Problem/challenge to be tackled*

### III. Results of the OG in relation to

*a) How was the cooperation organized in detail ?(possibly with examples on the organizational and practical collaboration)*

*b) What was the special added value of the OG format for the implementation of the project?*

*c) Is further cooperation of the OG members after the conclusion of the funded project foreseen?*

IV. Results of the innovation project

- a) Goal achievement (was an innovation generated in the project?)*
- b) Deviations between project plan and results*
- c) Project implementation/activities (possibly with photo documentation)*
- d) Contribution of the results to the EIP objectives*
- e) Side effects/results*
- f) Work that has not led to a solution*

V. Use of the results for the practice:

Have usable/applicable recommendations, products, processes or technologies emerged?

VI. (Planned) use of the results

VII. Economic and scientific follow up

*Did further (scientific) questions result from the project outcomes, which may be further developed in the future?*

VIII. Where relevant: Use of an Innovation Service Provider (IDL)

*Description whether and to what extent the innovation support service (IDL) was beneficial and essential for the OG and the project results. Suggestions for improvement, if any.*

IX. Communication and dissemination concept

*Please present how the results were communicated or disseminated, if applicable referring to publications and indication of sources.*

*General conclusions (if applicable, conclusion on the suitability of EIP funding for generating innovation and for closing the gap between practice and science)*

*Any other suggestions for the further development of the EIP AGRI?*

**Final report form**  
**EIP Operational Groups - call 2017**

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Department of Agriculture and Fisheries  
Department of entrepreneurship and development  
Ellips building  
King Albert II-lane 35, bus 40  
1030 BRUSSELS  
T 02/552 79 07 - F 02/552 74 71  
[operationelegroepen@lv.vlaanderen.be](mailto:operationelegroepen@lv.vlaanderen.be)

[www.vlaanderen.be/landbouw/operationelegroepen](http://www.vlaanderen.be/landbouw/operationelegroepen)

***What is this form for?***

With this form you submit the final report for the application of the remaining balance of the subsidy for an approved operational group. The final report aims to provide a substantive and financial reporting of project outcomes.

***Who will fill in this form?***

This report must be completed and signed by the coordinator of the project.

***When should you return this form at the latest?***

You send this final report together with the detailed financial statement and the supporting documents at the latest 6 months after the project period. You deliver 1 printed version to the Department of Agriculture and Fisheries at the above address. You also send it digitally to [operationelegroepen@lv.vlaanderen.be](mailto:operationelegroepen@lv.vlaanderen.be) and to the official who follows up your project content wise and administratively (as mentioned in the letter of approval).

## **General data**

Title project:

File number (OG2017-XX):

Applicant:

Project end date:

*[The Department of Agriculture and Fisheries reserves the right to request additional information in order to enable the department to assess the progress of the project on the basis of complete information.]*

## **Institution, responsible for execution of the project**

*If one of the following data has changed since the application for the project, please mention this below. If everything has remained unchanged, please note 'idem'.*

Enter the details of the applicant here:

Name of institution:

Legal status:

Street and number:

Postal code and municipality:

name contactperson:

phone number:

E-mail address:

Website (if applicable):

IBAN:

BIC:

VAT number (if applicable) BE:

VAT system:

## **Role of the partners within the project and a summary of the project**

Clarification of the role played by the various partners: .....

Summary of the project: .....

*[The description must be clear for people who have not followed the project closely.]*

### **Overview of project outcomes**

A report of all outcomes of this project must be included in the following form

- a report if it concerns company visits, a brainstorming session, a study day or other activities
- a publication if it concerns a brochure, a roadmap, a report or another publication

Project outcome	Form of reporting	Appendix (number)
...	...	...

### **Technical report of the project**

Each project has a certain element in one form or another of which a technical report can be made. This may involve technical recommendations, a strategy for the implementation of a new technology, an evaluation of the measures taken, a feasibility study, etc....

.....

### **Dissemination of the results of the operational group**

To what extent are the results distributed within the operational group?

- Has sufficient attention been paid within the project to the dissemination of the results and in what way?
- Has there been sufficient response from the target audience (+ reason)?
- What is the short-term effect (within the project period)?
- What is the expected effect in the long term (after the project)?

### **Text ready-to-use for the press**

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### **Conclusions / appreciation of the partnership**

- Have the objectives of the project been achieved, both in terms of the sub-aspects and in terms of the project as a whole?
- Will the project be continued in one form or another?
- How did the collaboration between the partners and the project group work? Please evaluate the way in which the management and follow up of the project took place.

### **Signature**

date:

day

month

year

signature

First and last name

# Development of a slurry concentrator with continuous total nitrogen data collection

## Summary

The pilot project aims to reduce the costs of management of livestock waste by applying a new process from which the slurry coming directly from the farm will be separated into two phases, a first semi-liquid phase with the most of the organic fraction, the nutrients and the larger particles and a second liquid phase with low nutrient concentration. The differentiated management of the two phases will allow to minimize transport costs as well as the optimization of the application of nutrients in the soil, both from an agronomic and environmental point of view

## Objectives

- To implement the monitoring of the flow and concentration of nitrogen through an equipment / sensors that allow to know at all times the efficiency of the treatment and the distribution of nitrogen in the two phases.
- Minimize the costs of the setting up and operation (including energy consumption) of the new process / technology developed (concentrator)
- Ensure that the materials that make up the concentrator are resistant to the environments to which they are destined and that guarantee a high durability of the equipment.
- Evaluate the implementation of the concentrator in existing installations without substantially modifying the storage structures.
- To low the cost of transportation of agricultural nutrients such as nitrogen, phosphorus, potassium and organic matter.
- Assessing environmental impacts through life analysis tools (LCA) and the economic viability of the process using tools of analysis of the cycle of costs (Life Cycle Costing-LCC).

## Description of project activities

1. Design, construction and implementation of the new system of concentration of nutrients and organic matter in slurry storage ponds.
2. Monitoring the concentrations and characteristics of each of the fractions (diluted and concentrated).
3. Capture, transport and application of fractions produced.
4. Determination of the economic and environmental sustainability of the new system and the new management model.
- 5- Modifications and redesign of the system based on the results obtained in Action 4, to determine the economic and environmental sustainability of the new system and the new management model.

## Final results and practical recommendations

The main conclusions drawn from this study are the following:

- The concentrator designed and built in this project presents satisfactory results. With both mothers and



fattening, it is possible to obtain a diluted effluent and another concentrate.

- Purines from mothers' farms have yielded better volumetric yields. In these it has been able to dilute between 73 and 88% of the volume treated. In contrast, with fattening slurry these yields are around 17%.

- The analytical results performed on the slurry storage ponds have shown the stratification that some components follow, such as organic nitrogen and phosphorus.

- Phosphorus and nitrogen have a greater separation efficiency than potassium, which is mainly retained in the concentrated phase due to its tendency to be retained in the sediments.

- The conductivity measurements of the samples of analyzed purines present good correlations with total nitrogen, ammoniacal and potassium, and are comparable to those presented by other authors.

$N-NH_4 + = 0.148x - 0.09$  ( $r^2 = 0.752$ )

$NT = 0.239x - 0.672$  ( $r^2 = 0.836$ )

$K = 0.116x - 0.014$  ( $r^2 = 0.774$ )

- The rack monitoring system allows continuous monitoring of energy consumption and conductivity. However, the system must be improved in order to minimize the oscillations of the conductivity data.

- The energy consumption of the processes carried out is low, achieving the most unfavorable 0.227 kWh · m<sup>-3</sup> tests.

- The joint analysis of the results obtained seems to demonstrate the technological and economic

## Conclusions

The concentrator prototype developed in the project has yielded very satisfactory results: both diluted effluent and concentrated effluent are obtained in both slurries from mothers and from fattening pigs. The results are better for slurry from mothers. Phosphorus and nitrogen remain mostly retained in the concentrated phase. The system allows continuous monitoring of energy consumption and conductivity. Energy consumption of processes is low. The tasks carried out in the pilot project demonstrate the technological and economic viability of the proposal for its use for the benefit of the farms, and for the cooperative in its efficient management of the manure.

## Operational Group Leader

Entitat: **AGRÀRIA PLANA DE VIC I SECCIÓ DE CRÈDIT**

E-mail de contacte:

**smartin@planadevic.cat**

Tipologia d'entitat:

**Cooperativa**

## Operational Group Coordinator

Entitat: **FEDERACIÓ DE COOPERATIVES AGRÀRIES DE CATALUNYA (FCAC)**

E-mail de contacte:

**marius.simon@fcac.coop**

Tipologia d'entitat:

**Associació o federació de cooperatives**

## Other Operational Group members (beneficiaries of aid)

## Other Operational Group members

Entitat: **FUNDACIÓ UNIVERSITÀRIA BALMES (UNIVERSITAT DE VIC - UNIVERSITAT**

E-mail de contacte: **DE CATALUNYA)**

Tipologia d'entitat:

**sergio.ponsa@uvic.cat**

**Universitat**

Entitat: **GRUP SOLUCIONS MANRESA, SLUP**

E-mail de contacte:

**mercemartinez@solucions.info**

Tipologia d'entitat:

**Entitat d'assessorament agrari**

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### Keyword-category

Farming equipment and machinery  
Fertilisation and nutrients management

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### Territorial scope

<b>Province</b>	<b>County</b>
Barcelona	Osona

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### Project dissemination *(publications, seminars, multimedia...)*

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### Pàgina web del projecte

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### Other project information

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#### Projecte period

Starting date (month-year): Novembre 2015

End date (month-year): Setembre 2017

Project status: *Finalised*

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#### Approved budget

**Total Budget: 270.967,00 €**

*Funding source DARP:* 110.167,83 €

*Funding source UE:* 83.109,07 €

*Own funds:* 77.690,10 €

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### With the support of:

Project funded by Operation 16.01.01 (Cooperation for innovation) of the Rural Development Program of Catalunya 2014-2020.

*Basic regulation: Ordre ARP/258/2015, de 17 d'agost, per la qual s'aproven les bases reguladores dels ajuts a la cooperació per a la innovació a través del foment de la creació de grups operatius de l'Associació Europea per a la Innovació en matèria de productivitat i sostenibilitat agrícoles i la realització de projectes pilot innovadors per part d'aquests grups, i es convoquen els corresponents a 2015.*

*Id. projecte: 60 2015*