
**Draft Project plan for the CEN
Workshop on “Methodology to
quantify the global agricultural
crop footprint including soil
affection”**

Recipients of this project plan are kindly requested to name all patent rights known to them to be relevant to the Workshop and to make available all supporting documents.

Madrid, 2022.02.18 (Version 1)

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1 Status of the project plan

Draft project plan for public commenting (Version 1.0)

This draft project plan is intended to inform the public of a new Workshop. Any interested party can take part in this Workshop and/or comment on this draft project plan. Please send any requests to participate or comments by e-mail to rcepas@une.org

All those who have applied for participation or have commented on the project plan by the deadline will be invited to the kick-off meeting of the Workshop on **<2022-04-05>**.

Approved project plan for CWA development adopted at the kick-off meeting of the Workshop on **2022-04-05** (Version 1.0)

2 Workshop proposer and Workshop participants

2.1 Workshop proposer

<u>Person or organisation</u>	<u>Short description and interest in the subject</u>
<p>Ms. Bárbara Palacino Blázquez Fundación Circe Parque Empresarial Dinamiza, Avda. Ranillas 3D, 1ªPlanta. Zaragoza CP 50018 SPAIN bpalacino@fcirce.es Phone: +34 976976859 www.fcirce.es</p>	<p>Fundación CIRCE. Technology centre founded that seeks to provide innovative solutions for a SUSTAINABLE DEVELOPMENT. CIRCE works towards improving the competitiveness of enterprises through generation of technology transfer by means of R+D activities and market-oriented training within the field of resource sustainability and effectiveness, energy grids and renewable energies.</p> <p>Bárbara Palacino. Degree in Chemistry, Master in Molecular Chemistry and Homogeneous Catalysis and Master in Renewable Energies and Energy Efficiency by the University of Zaragoza. She joined CIRCE as a Researcher. Her activity focuses on the study and evaluation of the agricultural sector and fertilisation. She also works on issues in the biomass sector and waste valorisation as a resource for soil amendments and as alternative raw materials within the circular economy. She is currently working on national projects, FERTILIGENCIA and European projects, ArgoBioHeat and EUCANwin. She is also developing his PhD in the Renewable Energy and Energy Efficiency programme on exergetic assessment of soil quality and degradation.</p>

2.2 Other potential participants

This CWA will be developed in a Workshop (temporary body) that is open to any interested party. The participation of other experts would be helpful and is desired. It is recommended that:

- Representatives of fertilizer manufacturers
- Representatives of agriculture sector
- Representatives of policy makers related to agriculture and environment
- EU institutions related to agriculture and environment
- Scientist in the area of soil quality
- Participants in related Technical Committees

take part in the development of this CWA.

2.3 Participants at the kick-off meeting

The following persons or organisations already signed up to the kick-off meeting prior to the publication of the draft project plan.

<u>Person</u>	<u>Organisation</u>
Workshop proposer : Bárbara Palacino Blázquez	Fundación Circe (Spain)
Manuel Márquez Fernández	PCTAD (Parque Centro Tecnológico Aula Dei) (Spain)
Victoria Cadahía	Fertinagro Biotech (Spain)
Marcos Caballero	Fertinagro Nutrigenia (Spain)
Azucena Mainar	Fertinagro Fertesa (Spain)
Alicia Valero	Universidad de Zaragoza – Instituto de Investigación Mixto CIRCE (Spain)
Workshop secretariat: Ms. Rosa Cepas	UNE. Spanish Association for Standardization (Spain)

3 Workshop objectives and scope

3.1 Background

Loss of soil fertility and soil erosion are some of the threats facing mankind. Agricultural systems are complex systems made up of physical, chemical, and biological properties. Soil parameters or factors constitute these properties. A large number of factors involved in the cycles and processes occurring in the soil makes it necessary to study them using different parameters. Due to the complexity of soils, there is currently no consensus on how to assess loss of soil fertility and soil erosion, and they are not included in the usual environmental impact assessment methodologies.

This CWA proposes to use the exergy methodology to evaluate all the impacts of an agroecosystem, including those occurring in the soil. Exergy is a physical property based on the second law of thermodynamics and unifies into a single indicator; all soil parameters relevant for soil fertility assessment.

This CWA is an opportunity to further improve soil quality evaluation by introducing a thermodynamic indicator that will contribute to a rigorous assessment of agricultural processes' impact. The determination of a single comparable, reliable, accurate, and globally accepted indicator will be essential in the near future for the evaluation of soil fertility and agricultural processes efficiency and environmental sustainability.

3.2 Scope

The planned CEN Workshop specifies a methodology for identifying, characterizing, and implementing a single indicator to assess the quality and degradation of agricultural soils and the overall impact of the agriculture processes. The agriculture impacts are assessed through the mechanical, fertilization and irrigation activities associated. Furthermore, soil affection is evaluated accounting with soil erosion and parameters such as nutrients, texture, and organic matter. The developed methodology allows a simple but robust assessment of soil biogeochemical processes and the loss of fertility and degradation.

3.3 Related activities

The subject of the planned CWA is not at present the subject of any standard. Additionally, it is not directly under the scope of any European Technical Committee.

However, there are standards and/or other technical specifications that deal with related subjects and thus need to be taken into account during this Workshop. In particular, the outcomes of this Workshop can be interesting for the following Technical Committees, which have been informed on the initial commenting and appointment period :

- CEN/TC 223 “Soil improvers and growing media”
- CEN/TC 260 “Fertilizers, soil conditioners and beneficial substances”
- CEN/TC 455 “Plant Biostimulants”
- CEN/TC 444 “Test methods for environmental characterization of solid matrices”

4 Workshop programme

4.1 General

The kick-off meeting is planned to take place on 2022-04-05 virtually by webconferece (Microsoft Teams). Due to Covid-19 restrictions, all the meetings are intended to be made online.

A draft of the CWA for public commenting will be published for 30 days.

A total of 2 Workshop meetings (kick-off meeting and 1 Workshop meeting (if needed)) will be held, during which the content of the CWA(s) will be presented, discussed and approved.

The CWA will be written in English and also the language of meetings, minutes, etc. will be in English.

4.2 Workshop schedule

Table 1: Workshop schedule (preliminary)

CEN/CENELEC Workshop	March 2022	April 2022	May 2022	June 2022
Initiation				
1. Open commenting period on draft project plan (mandatory)response				
Operation				
2. Kick-off meeting				
3. CWA(s) development (including 30-days open consultation)				
4. CWA(s) finalised and approved by Workshop participants				
Publication				
5. CWA(s) publication				
Dissemination				
Milestones		K	M A	P

- K** Kick-off meeting
- M** Virtual Workshop meeting (if needed)
- A** Adoption of CWA
- P** Publication of CWA

5 Resource planning

The CEN Workshop Secretariat and management costs will be covered by the Spanish research project FERTILIGENCIA (Innovative fertilizers to reduce the environmental impact of agriculture and development of a standard for assessing the sustainability of agroecosystems). This project has received funding from the program Retos-Colaboración 2017, funded by the Spanish Ministry of Science, Innovation and Universities under No RTC-2017-5887-5.

Other costs incurred by individual participants shall be covered by themselves.

According to CEN/CENELEC Guide, the resulting CWA will be available for free downloading from CEN-CELENEC Webpage since it is under R&D domain. Related cost will also be covered by UNE (Spanish Association for Standardization).

6 Workshop structure and rules of cooperation

6.1 Participation in the Workshop

The Workshop will be constituted during the course of the kick-off meeting. By approving this project plan, the interested parties declare their willingness to participate in the Workshop and will be formally named as Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the Workshop.

As a rule, the request to participate in the Workshop is closed once it is constituted. The current Workshop participants shall decide whether any additional members will be accepted or not.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time. It is particularly important to consider these aspects:

- a. expansion would be conducive to shortening the duration of the Workshop or to avoiding or averting an impending delay in the planned duration of the Workshop;
- b. the expansion would not result in the Workshop taking longer to complete;
- c. the new Workshop participant would not address any new or complementary issues beyond the scope defined and approved in the project plan;
- d. the new Workshop participant would bring complementary expertise into the Workshop in order to incorporate the latest scientific findings and state-of-the-art knowledge;
- e. the new Workshop participant would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
- f. the new Workshop participant would ensure wider application of the CWA.

All Workshop participants who will have agreed to the publication of the CWA or its draft will be named as authors in the European Foreword, including the organisations which they represent. All Workshop participants who will not have agreed to the publication of the CWA, will not be named in the European Foreword.

6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and any decision-making and voting procedures. The Workshop Chair is supported by the Workshop Vice-Chair and the responsible Workshop secretariat, whereby the Workshop secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer be able to carry out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings
- Ensures that the development of the CWA respects the principles and content of the adopted project plan
- Manages the consensus building process, decides when the Workshop participants have reached agreement on the final CWA, on the basis of the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by a CEN/CENELEC national member, is responsible for organising and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organised by the Workshop secretariat in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

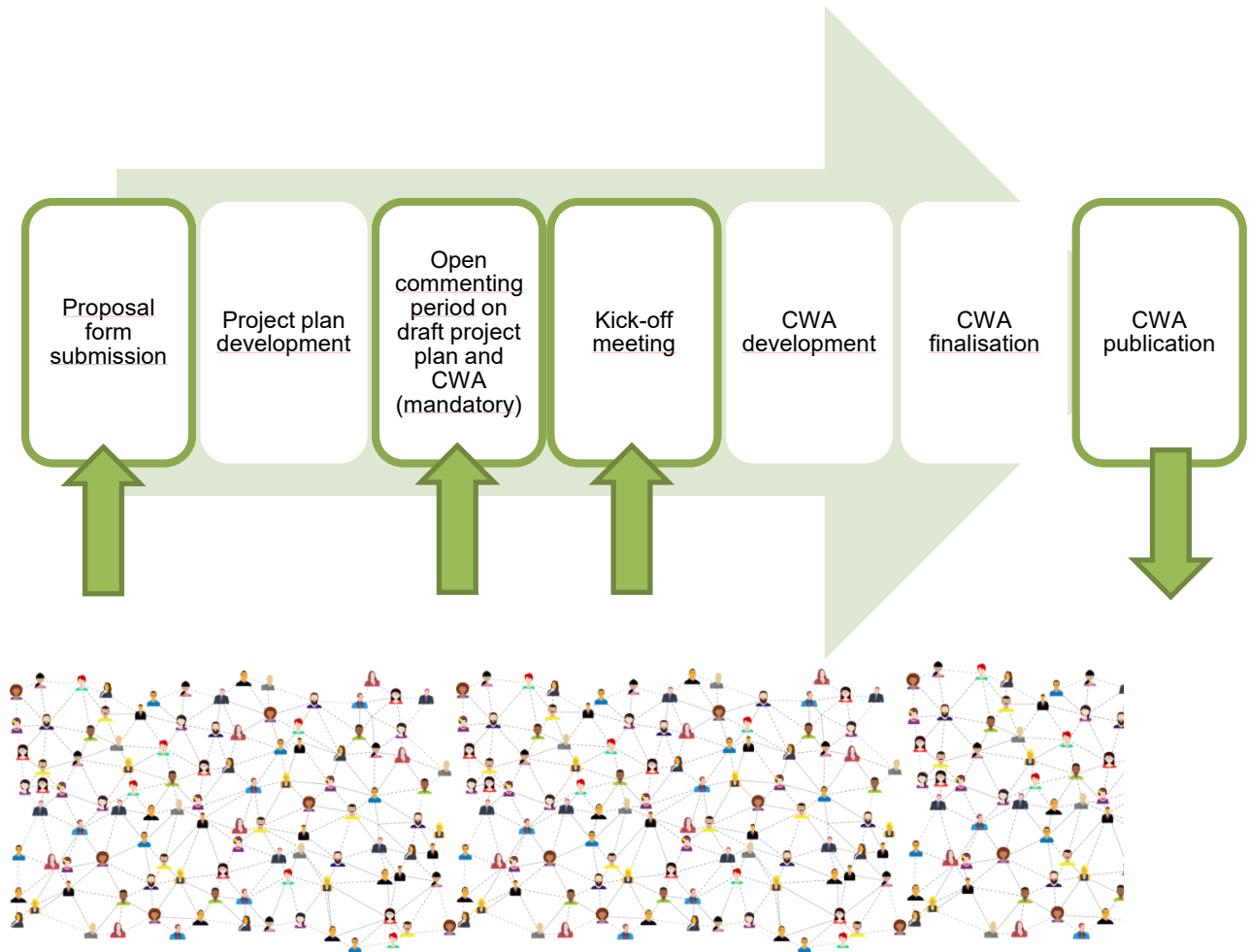
- Administrative and organisational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organisations and individuals
- Offers infrastructure and manage documents and their distribution through an electronic platform
- Prepares agenda and distribute information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manage CWA approval process upon decision by the Workshop Chair
- Interface with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and bring any major problems encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

6.3 Decision making process

The final draft of the CWA, considered by the Chair to represent the best possible consensus, will be presented to the Workshop participants who will be invited to express their support for this final draft so that their names can be listed in the Foreword.

During the drafting process, in cases where opposing views are expressed, the overall level of support by the Workshop will be tested by asking the Workshop participants to express their position. These interim decisions on the direction to be taken will be decided on the basis of a simple majority among the organizations participating in the Workshop. If Workshop participants cannot be present in the meetings where such decision is taken, an alternative means of including them in the decision process may be used.

7 Dissemination and participation strategy



Proposal form submission

The Workshop proposal has been disseminated to the following relevant stakeholders and bodies for consultation:

- CEN/TC 223
- CEN/TC 260
- CEN/TC 444
- CEN/TC 455

Open commenting periods on draft project plan and CWA

The project plan will be disseminated to the following relevant stakeholders and bodies for commenting:

- CEN/TC 223
- CEN/TC 260
- CEN/TC 444
- CEN/TC 455

In addition to the CCMC website, the project plan and the date of the kick-off meeting will be advertised on CIRCE and UNE social media to raise awareness. Interested parties are requested to contribute either through commenting of the project plan (short term) or through Workshop participation (long term).

CWA publication

In addition to the CCMC website, the final CWA will be advertised on:

- social media, such as
 - LinkedIn
 - Twitter

8 Contacts

- Workshop Proposer:

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