

CEN Workshop ***Food loss quantification in primary production***

Workshop description form

- PART A – Workshop Summary
- PART B – Project Plan

PART A – Workshop SUMMARY

1	WS details	
1.1.	Organization	☒ CEN ☐ CENELEC ☐ Joint with ☐ CEN lead ☐ CENELEC lead
1.2.	Title	<i>CEN WS "Food loss quantification in primary production"</i>
1.3.	Scope	The proposed Workshop aims to develop a document which will specify a methodology for the measurement of Food Loss (FL) in food primary production. Beginning with the definition of the scope of analysis, this methodology establishes the FL definitional framework and the necessary steps to estimate food losses in a particular territory and activities. This includes the measurement planning and direct measurements at parcel, plot, farm or pond level, as well as data extrapolation
1.4.	Does this WS stem from an EU Research project?	☒ YES Name of the project: "Bringing knowledge and consensus to prevent and reduce food loss at the primary production stage. Understanding, measuring, training and adopting (Folou)" Grant number: 101084106 End date 2026-12-31 ☐ NO
1.5.	Financial support	☒ EU Research project ☐ EC/EFTA Grant reference: Type here ☐ Other Specify, if needed: Type here
1.6.	WS Proposer	Name: Mercè Boy Roura Organization: FOLOU Project (European Union's Horizon Europe research and innovation programme under grant agreement No. 101084106) Postal address: merce.boy@uvic.cat Email: +34 93 881 61 68 ext 8141 Phone: https://www.folou.eu/ Webpage: Enric Pratginestós Blasco Contact person (name and email): enric.pratginestos@uvic.cat
1.7.	WS Secretariat	Organization: UNE- Spanish Association for Standardization Postal address: C/ Génova 6. Madrid (Spain) 28004 Email: info@une.org Phone: +34 915 294 900 Webpage: www.une.org WS Secretary name: Rosa Cepas Email: rcepas@une.org Phone: +34 650 928 457
1.8.	CEN and CENELEC Management Centre (CCMC) contact	Organization: CEN and CENELEC Postal address: Rue de la Science 23B - 1040 Brussels, Belgium Webpage: https://www.cencenelec.eu/Pages/default.aspx CCMC Project Manager name: Claire Van Thielen Email: cwa@cencenelec.eu Phone: +3225500831 +32478793545
1.9.	<u>Tentative</u> date and place of the Kick-off Meeting	Date: 2025-12-12 Place: On-line

1.10.	Does the proposed Workshop fall within the scope of existing CEN and/or CENELEC Technical Bodies? ¹	☐ YES Specify: Type here ☒ NO																									
1.11.	Are there other Technical Bodies or Joint Advisory and Coordination Groups potentially interested in the Workshop? ²	☒ YES Specify: ISO/TC 34/SC 20 "Food loss and waste" ☐ NO																									
1.12.	Are the following aspects affected?	<table border="1"> <tr> <td>Safety matters</td> <td>YES³</td> <td>☐</td> <td>NO</td> <td>☒</td> </tr> <tr> <td>Management system aspects</td> <td>YES⁴</td> <td>☐</td> <td>7</td> <td>☒</td> </tr> <tr> <td>Conformity assessment aspects</td> <td>YES⁵</td> <td>☐</td> <td>NO</td> <td>☒</td> </tr> <tr> <td>Security matters</td> <td>YES⁶</td> <td>☐</td> <td>NO</td> <td>☒</td> </tr> <tr> <td></td> <td></td> <td></td> <td>8</td> <td></td> </tr> </table>	Safety matters	YES ³	☐	NO	☒	Management system aspects	YES ⁴	☐	7	☒	Conformity assessment aspects	YES ⁵	☐	NO	☒	Security matters	YES ⁶	☐	NO	☒				8	
Safety matters	YES ³	☐	NO	☒																							
Management system aspects	YES ⁴	☐	7	☒																							
Conformity assessment aspects	YES ⁵	☐	NO	☒																							
Security matters	YES ⁶	☐	NO	☒																							
			8																								
		Add information/explanations if Management System aspects and Conformity Assessment aspects are affected: Type here																									
2 WS Deliverables																											
2.1.	CWA #1																										
2.1.1	Title	☐ Same as WS title (1.2) ☒ Other: Methodology to quantify food loss at primary production																									
2.1.2	Scope	This European CWA specifies a methodology for the measurement of Food Loss (FL) in food primary production. Beginning with the definition of the scope of analysis, this methodology establishes the FL definitional framework and the necessary steps to estimate food losses in a particular territory and activities. This includes the measurement planning and direct measurements at parcel, plot, farm or pond level, as well as data extrapolation. This CWA also includes general requirements for using innovative technologies to facilitate the quantification of food losses in agricultural production. Although initially more expensive, innovative technologies can enhance process efficiency by increasing sample sizes and reducing time consumption. Innovative technologies may enable the quantification of FL (a quantitative approach) or the assessment of food quality (a qualitative approach). Also informative guidance on the use of this document and additional information is provided.																									
2.1.3	Does the proposed CWA conflict with a published EN	☐ YES Specify: Type here ☒ NO In case the answer is 'yes', the development of the CWA shall be stopped																									

¹ Part A and Part B of this form shall be sent by the WS secretary to the secretary of the Technical Bodies identified in this section to inform them about the creation of the WS and register any possible objection within 30 days (45 during the holiday period).

² Part A and Part B of this form should be sent by the WS secretary to the Bodies identified in this section to inform them about the creation of the WS.

³ Work on the proposed CEN and/or CENELEC Workshop shall not be initiated.

⁴ The CEN and/or CENELEC Workshop proposal shall be submitted to the CEN/CENELEC BT(s) for decision.

⁵ CEN-CENELEC Internal Regulations - Part 3, Clause 33 applies.

⁶ For projects dealing with security matters the security risk analysis provided in Annex I shall be carried out.

⁷ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

⁸ See Note 2 in CEN-CENELEC Guide 29, Clause 3.

PART B – Project Plan

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 by sending an email to the WS secretary.

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 **2025-12-12**

2 Workshop proposer and potential Workshop participants

2.1 Workshop proposer

The Workshop proposer is the FOLOU Project consortium. FOLOU has received funding from the European Union's Horizon Europe programme under grant agreement No 101084106.

FOLOU project aims to address Food Loss (FL) in primary production through a robust, coherent, multidisciplinary approach. A mechanism for change based on monitoring and measurement to better understand the impacts of FL will be established. The action plan includes knowledge transfer to primary production actors, retailers, consumers, policymakers, and researchers, enabling the implementation of the proposed recommendations to reduce FL.

This European funded project aims to set up the necessary mechanisms to:

- measure and estimate (robust and harmonized methodology) for FL in primary production,
- monitor and report (national and EU FL registries), and
- assess the magnitude and impact of FL.

Additionally, FOLOU will also work to ensure the appropriate knowledge transfer and adoption of the project outcomes by the key targeted stakeholders: primary producers, retailers, consumers, policy makers and researchers.

FOLOU will structure its activities in a comprehensive action plan revolving around four levers of change:

1. Understanding by working on collecting and curing FL available data, by working on understanding the drivers behind FLEs and by assessing the impact of these losses;
2. Measuring by developing new cost-effective tools for the measurement/estimation of FL and a robust and harmonized methodology;
3. Training by providing tailored trainings to different stakeholders;
4. Adopting by preparing recommendations and creating a twinning program.

2.2 Potential participants

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

- Agriculture, livestock, fisheries/aquaculture sector stakeholders
- Industry and distributors; companies on primary production manufacturing and/or distribution
- Government and regulatory bodies on agriculture, livestock and fisheries/aquaculture
- Government and regulatory bodies on sustainability
- Farming associations
- Academic and research, experts on sustainability on agriculture

take part in the development of this CWA.

The **FOLOU consortium** partners or related entities will be encouraged to participate in the CEN WS:

- FUNDACIÓ ESPIGOLADORS (SPAIN)
- UNIVERSITEIT GENT (BELGIUM)
- DILEPIX (FRANCE)
- UNIVERSITA POLITECNICA DELLE MARCHE (ITALY)
- NORCE NORWEGIAN RESEARCH CENTRE AS (NORWAY)
- UNIVERSITY OF LIMERICK (IRELAND)
- ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA (ITALY)
- PROMAN MANAGEMENT GMBH (AUSTRIA)
-
- DEPARTAMENT D'AGRICULTURA, RAMADERIA, PESCA I ALIMENTACIÓ. GENERALITAT DE CATALUNYA (SPAIN)
- AGÈNCIA DE RESIDUS DE CATALUNYA. GENERALITAT DE CATALUNYA (SPAIN)
- FUNDACIÓN CIRCE CENTRO DE INVESTIGACION DE RECURSOS Y CONSUMOS ENERGÉTICOS (SPAIN)
- IMPACT (BELGIUM)
- ASSOCIATION DES VILLES ET REGIONS POUR LA GESTION DURABLE DES RESSOURCES (ACR+), (BELGIUM)
- MEDITERRANEAN INFORMATION OFFICE FOR ENVIRONMENT, CULTURE AND SUSTAINABLE DEVELOPMENT ASSOCIATION (MIO-ECSDE) (EUROPE)
- THE UNIVERSITY OF READING (UNITED KINGDOM)

3 Workshop objectives and scope

3.1 Workshop background

- **Motivation for the creation of this Workshop**

This workshop is motivated by the currently ongoing Horizon Europe FOLOU project (*Bringing knowledge and consensus to prevent and reduce FOod LOss at the primary production stage. Understanding, measuring, training and adopting*). The main objective of FOLOU is to set up all the necessary mechanisms to measure and estimate, monitor and report, and assess the magnitude and impact of food losses. Additionally, FOLOU also works to assure the appropriate adoption of the project outcomes by the key targeted stakeholders.

FOLOU's overall aim is addressed through the following specific objectives related to this Workshop:

- To provide a robust, harmonized and standardised measurement and estimation methodology for quantifying food losses.
- To develop and validate innovative tools to measure and estimate food losses at the primary production stage.
- To help building well-informed and more effective policy strategies for preventing and reducing food losses and waste across the food system.

The standardisation of the food loss quantification methodology through this CEN Workshop has been identified by the project consortium as an effective mean to assure the appropriate adoption of the project outcomes by the key targeted stakeholders: primary producers, retailers, consumers, policy makers and researchers.

The importance of standardisation for the project is recognised in the GA through its inclusion in different objectives, milestones and deliverables, such as Deliverable D4.3 Report on path towards standardisation of the methodology and D7.5 Policy brief on the FOLOU methodology. The objective is that it can be easily found and used by the EU Member States, thus supporting the use of the project methodology, fostering its acceptance and utilization by the industry and its possible role of supporting future policy developments.

This CEN Workshop connects with the European and global initiatives to reduce food loss and waste. At the global level, the United Nations Sustainable Development Goals (SDGs), through its Target 12.3, call for a 50% reduction in food waste at the retail and consumer levels, along with a significant reduction in food losses along the production and supply chains by 2030.

The European Union has consistently set targets to reduce food loss and waste. The Waste Framework Directive requires EU member states to take measures to prevent food waste and loss along the food supply chain, including the primary production, and the EU's Common Agricultural Policy (CAP) includes incentives to reduce food loss at the production level. In addition, the Farm to Fork Strategy and other initiatives address food loss and waste, with an increased use of the concept of food loss.

This workshop aims to contribute to the adoption of a harmonised methodology to quantify food loss by the key stakeholders at national, European and international level. FOLOU will lead the development of this CWA, ensuring that it aligns with the project goals to promote consistent measurement of food loss and to involve producers and their organisations, policymakers, and society.

- **Market and legal environment**

Food loss represents a significant share of European and global primary food production. According to the Food and Agriculture Organization and the United Nations, approximately 13.2% of total food production is lost every year (Source: FAO. 2023. *Tracking progress on food and agriculture-related SDG indicators 2023.*). Food lost or wasted generates each year approximately 3,300 million tons of CO₂ equivalent of GHG, consumes 250km³ of water and uses 1,400 million hectares of land (28% of the world's agricultural area) (Source: FAO. 2013. *Food wastage footprint: impacts on natural resources.*).

International institutions and organisations have developed multiple initiatives to monitor and reduce food loss and waste. United Nations set a target of 50% reduction in food waste and a significant reduction in food losses along the production and supply chains by 2030 (12.3). The European Union has also promoted different regulations and strategies to reduce food loss and waste.

However, the lack of a harmonised methodology to quantify food loss across countries and organisations hinders the efforts to consistently measure it. In addition, European Union legislation does not consider losses occurred before harvesting as food loss, as it excludes live animals and plants prior to harvesting from the definition of food.

In this context, the proposed CEN Workshop Agreement (CWA) seeks to close critical knowledge gaps by developing robust and harmonised methodologies for quantifying food loss at the primary production stage, covering the agricultural, livestock, and aquaculture sectors. The application of a consensus-based approach enables adaptation across various sectors and food categories, while remaining cost-effective.

- **Standardization landscape**

The scope of the planned CWA does not fall into the scope of any existing CEN/TC.

At ISO level the Technical Committee ISO/TC 34/SC 20 “Food loss and waste” is working on the standardization of food loss and waste, providing a framework for food organizations throughout the food chain, to work actively and effectively with measuring and reduction of food loss and waste.

FOLOU has a liaison since 2025-05-26 with this ISO/TC and have informed them about the proposal of establishing this CEN/WS and the future development of this CWA. ISO/TC 34/SC 20 has confirmed that this proposal does not overlap any project being developed at this moment. The participation of ISO/TC 34/SC 20 delegates or experts will be more than welcomed to join the Workshop

4 Workshop programme

4.1 General

The kick-off meeting is planned to take place on **2025-12-12** as virtual meeting.

A draft for public commenting will be published for 30 days, provided that timeframe permits.

After the kick-off meeting, the necessary number of Workshop meetings will be held, during which the content of the CWA will be discussed, agreed and approved. The number of agreed meetings will be arranged as needed in the drafting and agreement process. Online work will be preferred to improve the sustainability of this work.

The working language (language of meetings, minutes, etc.) of the WS will be English. The CWA will be written in English.

4.2 Workshop Schedule

Table 1: Workshop schedule (preliminary)

CEN	Oct-25	Nov-25	Dec-25	Jan-25	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26
Initiation											
1. Workshop description form submission and TC response											
2. Open commenting period on draft project plan (mandatory)											
Operation											
3. Kick-off meeting											
4. CWA(s) development											
5. Open commenting period on draft CWA(s) (optional)											
6. CWA(s) finalized and approved by Workshop participants											
Publication											
7. CWA(s) publication											
Dissemination (see 6)											
Milestones											

Legend

- K** Kick-off
- V** Virtual Workshop meeting
- A** Adoption of CWA
- P** Publication of CWA
- D** Online distribution of CWA

5 Resource planning

Both registration and participation at the Workshop here are free of charge. The management costs of the Workshop will be covered by resources from the FOLOU project (GA 101084106).

Online meetings will be preferred. Nevertheless, in the case of physical/hybrid meetings, they will be held in Europe and each participant must bear his/her own costs for travel, accommodation and subsistence.

The CWA will be published by CEN/CENELEC and made publicly available through CEN/CENELEC and the different standardization Institutes in the member states at normal costs in line with the guidelines in CEN/CENELEC Guide 10. It is foreseen that the CWA can be also freely downloaded from the CWA Download Area on the CEN/CENELEC webpage.

The copyright of the final CWA will be at CEN/CENELEC. The final document will include the following paragraph: "Results incorporated in this CEN Workshop Agreement received funding from the European Union's Horizon Europe Programme under Grant Agreement No. 101084106".

6 Workshop structure and rules of cooperation

6.1 Participation in the Workshop

The Workshop will be constituted during 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 approved the publication of the CWA or its draft will be named as authors in the European Foreword, including the organizations which they represent. All Workshop participants who did not approve 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 consensus building. The Workshop Chair is supported by the Workshop Vice-Chair (if any) 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, assesses 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 and/or CENELEC Member, is responsible for organizing and leading the kick-off meeting, in consultation with the Workshop proposer. Further Workshop meetings and/or web conferences shall be organized 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.

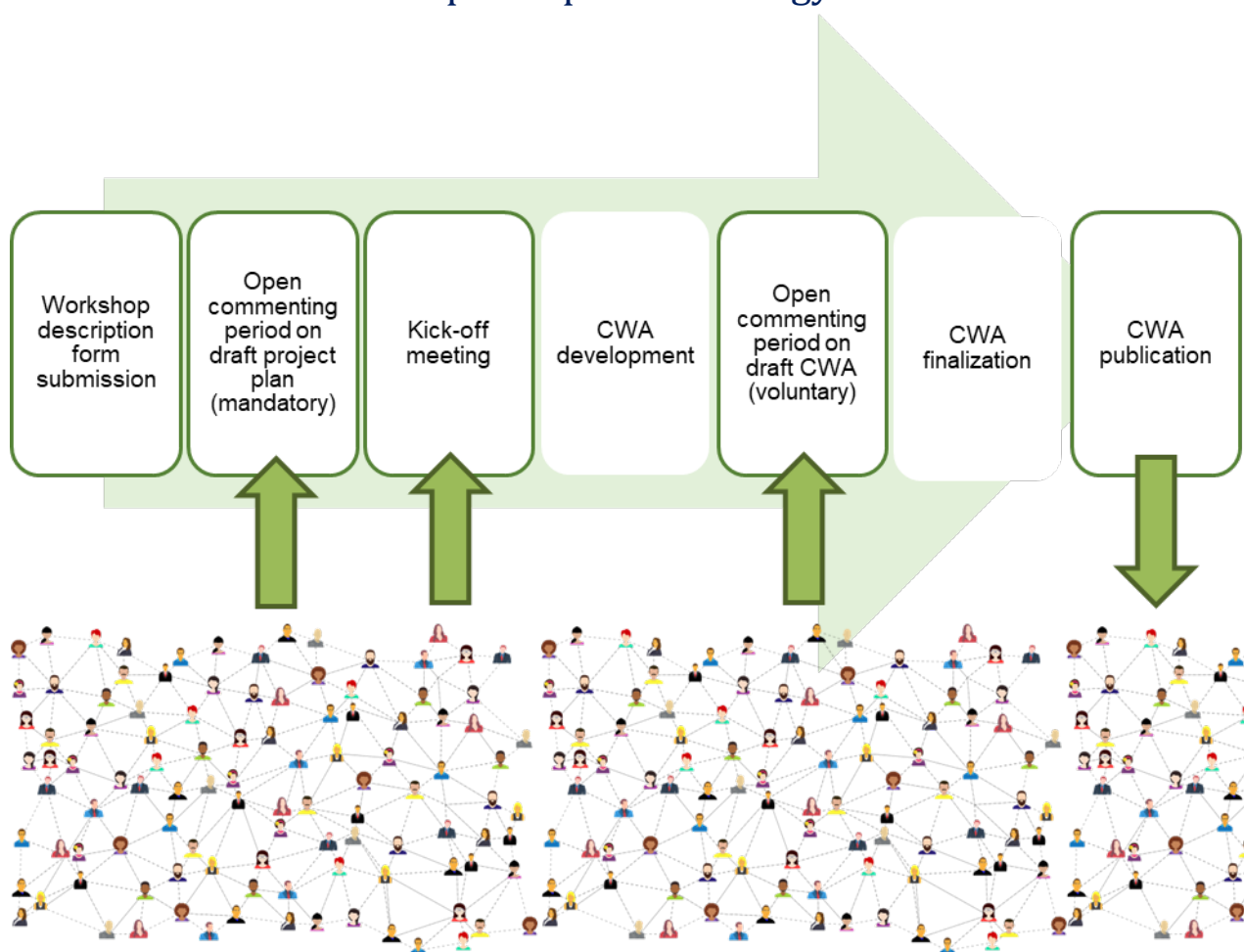
- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and of the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains record of participating organizations and individuals
- Offers infrastructure and manages documents and their distribution through an electronic platform
- Prepares agenda and distributes information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manages CWA approval process upon decision by the Workshop Chair
- Interfaces with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and brings 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 CEN and/or CENELEC Workshop Chair is responsible for ensuring that the development of the CWA follows the principles and content of the project plan described in this document and the requirements of CEN-CENELEC Guide 29. The CEN and/or CENELEC Workshop Chair may take decisions on the conduct of the CEN and/or CENELEC Workshop on the basis of the comments expressed by the participants and of CEN-CENELEC Guide 29.

Decisions shall be taken based on consensus of the WS participants.

7 Dissemination and participation strategy



Potential participants identified in section 2.2 and potential interested stakeholders identified in Part A should be informed of the open commenting phase, if any, and of the publication of the CWA.

In addition to the CCMC website, the project plan and the date of the kick-off meeting will be advertised on the FOLOU project webpage (<https://www.folou.eu/>) and its social networks to raise awareness.

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

- FOLOU project webpage (<https://www.folou.eu/>)
- FOLOU social media: LinkedIn, X, Facebook, BlueSky.
- FOLOU partners social media
- EC Newsroom
- Others

Annex I – Security risk analysis

This annex shall be completed if section 1.12 of Part A indicates that security aspects are addressed by the Workshop.

I.I General

Security risk analysis is a process of identifying and analyzing the main negative factors that may affect a standardization project's objectives. The following is targeted at secretariats of CEN and/or CENELEC Workshop Agreements (CWA) dealing with security issues. Its purpose is to help them identify and mitigate the risks associated with their project. It is structured around two main security threats that can affect the success of the work: major diverging interests among stakeholders and sensitive information.

I.II Risk analysis on major diverging interest among stakeholders

Diverging interests among stakeholders can impede the process in reaching agreement on the CWA and even lead to failure to deliver the planned CWA. In order to identify and possibly mitigate the risks, the following questions should be reviewed:

- Is the planned CWA expected to have a major impact on the security policy/strategy of the core stakeholders?
- Does the scope of the CWA cover products or services with a clear dual-use purpose (i.e. which can be used for military purposes)?

I.III Risk analysis on sensitive information

- In light of the scope of the CWA, is it likely that it may deal with sensitive information? If so, what is the information sensitivity level?
- Is there a need for a (non-)disclosure agreement?
- Is there any conflict of interest for stakeholders involved in the CEN and/or CENELEC Workshop, regarding especially the use they may make of any information they receive during the development of the CWA?
- What steps should be taken to manage information dissemination and storage (e.g. memory stick, emailing, storage) during the development process of the CWA?