



SUSFANS final outcomes workshop on pathways towards a sustainable and food and nutrition secure Europe WP11

Deliverable 11.5

SUSFANS DELIVERABLES

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In this document, a protocol is provided
for the four workshops with
stakeholders in the four countries:
Denmark, Italy, France, and Czechia.



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Summary

In this document, a protocol is provided for the four planned workshops with stakeholders in the four countries: Denmark, Italy, France, and Czechia.

SUSFANS impact: the project aims to impact stakeholders by:

- Strengthening the analytical capacity for assessing the state of EU FNS at sub-regional level.
- Improve the capacity of stakeholder to monitor developments, determine risks and long-term challenges, and by doing so support the design and formulation of long-term agro-food strategies.

Stakeholders are individuals or groups who can affect or are affected by the SUSFANS outcomes and modelling toolbox. Deliverable 6.1 defines the SUSFANS stakeholder groups engaged in (i) food system activities; (ii) food system policy; and (iii) food system influences. Among these potential stakeholders, **the key stakeholders should be selected per country.**

The key stakeholders will be closely engaged in toolbox development and, will provide insights and feedback in possible application of the tool. Key stakeholders are capable to bring change and develop agendas in policy, civil society, business and academia. Moreover, key stakeholders are expected to play a SUSFANS ambassador role in further dissemination of the toolbox results as to be a standard practice.

The **overall aim** of the workshops is to increase stakeholder commitment to change by means of consulting/considering SUSFANS outcomes for assessing FNS and outcomes of the modelling toolbox in decision making processes. Specifically the objectives are:

Objective 1: For a larger group of stakeholders - to increase awareness of the SUSFANS project outcomes through inspiration, information, and general discussion

Objective 2: For key stakeholders – in addition to the first point, to increase willingness to implement and consult the user toolbox in decision-making processes. A more interactive workshop where key stakeholders will get a deeper understanding of the topic, provide input according to their requirements, and develop an agenda for further collaboration met SUSFANS

To achieve these objectives, SUSFANS will organise four workshops with stakeholders in the four countries. Each workshop consists of two parts. Part 1: Morning session is meant for a larger group of stakeholders (more than 40 participants). Part 2:

afternoon session for the key stakeholders with relevant knowledge and experience (about 6-10 participants). It is important to keep in mind that the key stakeholders participate in both sessions.

Methods: Group brainstorming and exchange about potential impacts followed by asking about individual experiences, preferences and knowledge. Group brainstorming often triggers less obvious thoughts and ideas. Additionally, group discussions providing examples and statements related to possible implementations of SUSFANS results often unlocks new ideas.

Reporting: The statements used in the discussions lead the discussion towards the usability of the toolbox services. For the workshop report an output format will be provided in which understanding, perceived usefulness of SUSFANS outcomes and intention to consult the outcomes and toolbox should be clearly described (in English).

Necessary facilities:

- Location: Make sure there are enough facilities (i.e. public transport, catering) available for the participants. Choose a place where at least 1 large room is available for about 70 people (morning session only), and 1 room for up to 15 people (afternoon session).
- Material: Video recorder, voice recorder, beamer, microphone, speaker devices for the digital poll, enough notebooks, pens, 5 flip-charts, post-its. For the afternoon session, DEMOCS cards, printed agendas, "Health and sustainability goals" (Table 1), and the spider diagram. Number of copies of Table 1 is twice as much as the number of participants.
- Prints of
 - Workshop protocol including reporting form for all moderators
 - "health and sustainability goals" (Table 1; page 13 and 14)
 - DEMOCS cards (appendix A)
 - Agenda for stakeholders (Appendix B)
 - SUSFANS visualizer (Appendix C)
 - Evaluation forms (Appendix D)

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Expanded agenda

Part 1: Stakeholder workshop (about 40-60 participants)

Start	Time	What	Who	How
9.30	30 min	Walk-in with coffee/tea Individual task of selecting health and sustainability priorities	40-60 participants, SUSFANS team, facilitators	Facilitators will make sure all stakeholders have their choice table
10.00	10 min	Welcome , practical issues (i.e. agenda), purpose of the workshop	Moderator/ Country representative	Presentation
<i>Moderator: Ask participants, if they have not done it yet, to choose their health and sustainability priorities now and add a weight.</i>				
10.10	30 min	Introduction to SUSFANS and main outcomes and the SUSFANS toolbox	Thom Achterbosch	Presentation and film
10:40	10 min	Reflections to SUSFANS from local perspective	Country representative	Presentation
10.50	15 min	Coffee break		
11.05	25 min	Group discussions SUSFANS results on: -Assessing sustainable food and nutrition security (SFNS) -Monitoring development, risk and challenges of SFNS	Participants in groups Facilitators	Discussion with statements on: -clarity -usability -uniqueness -intention of stakeholders
11:30	45 min	Reselect priorities: Group discussions on health and sustainability priorities	Participants in groups Facilitators	Choose the priorities again and group discussion
12:15	30 min	Plenary discussion: Conclusions from group discussions	1 person per group, Moderator	Group presents the main conclusions and highlights Moderator facilitates interactive discussion.
12:45	15 min	Wrap up and closure	Thom Achterbosch	
13:00 – 14.00	90 min	Lunch		

Part 2: Key stakeholder workshop (about 6-10 participants) heterogenic group

14.00	10 min	Short introduction to each other and relation with SUSFANS	Participants	
14:10	10 min	Summary of morning session discussion and purpose of afternoon session	Thom Achterbosch / moderator	
14:20	30 min	Round 1: Assessment	Participants, Thom Achterbosch / moderator	Leaded discussion
14:50	30 min	Round 2: Modelling	Participants, Thom Achterbosch / moderator	Leaded discussion
15:20	10 min	Coffee break		
15.40	30 min	Round 3: Foresight	Participants, Thom Achterbosch / moderator	Leaded discussion
16:10	10 min	Summarizing and main conclusions	Thom Achterbosch / moderator	
16:20	20 min	Further collaboration and follow-up projects	Karin Zimmermann Thom Achterbosch	Open discussion
16.40	5 min	Closure	Country representative / Moderator	

Practical issues

Stakeholder invitation

- Invitees (stakeholders): The key stakeholders at national level are invited. A list of the key stakeholders at the EU level will be drafted by SUSFANS team, i.e. Karin, Thom, Monica from the main stakeholders (academics, policy makers, dieticians, NGOs, business), and finalized by country representatives. Based on that, the country representatives will identify specific persons who are relevant stakeholders in their country.
- Invitees (key stakeholders): Within the group of stakeholders those who are expected to be users of the toolbox are invited to participate in the afternoon session. This can be done either by invitation or self-selected during the registration. A mix based on background is preferred.
- If more than 8 participants want to participate a selection will be made according to their experience.
- Timing – send invitations 8 weeks before the workshop day, with reminder 4 weeks and 1 week in advance.
- Letter to the participants: make sure the letter covers the following aspects: time, place, and benefits to participants, expected outputs, follow-ups. Expect some “no shows” and invite 10-15% extra. Offer invitees opportunity to **register their participation for 1st and 2nd part separately**.

General benefits to participants: Benefits to participants of workshops is the opportunity to be involved in SFNS knowledge development and user toolbox improvement processes. Participants are valued as experts; they are given the chance to work collaboratively with researchers and other experts in a learning environment. Successful workshops can develop trust among participants and provide opportunity to explore solutions as a group rather than as individuals. For the recruitment of stakeholders see the example in the text box.

SUSFANS project in short:

The EU currently does not achieve sustainable food and nutrition security (Zurek et al. 2018). Addressing growing pressures on the natural environment (Frank et al. 2018) will have to go hand in hand with the need to ensure more adequate diets and the access to safe and nutritious food for all Europe's consumers (Mertens et al. 2018). In the past 3 years, a team of scientists from nutrition, economic, environmental, consumer behaviour and animal science research have worked together in the SUSFANS project. They have developed analytical tools, models, and scenarios for assessing and monitoring current and future European diets and food systems to provide an evidence base for EU-wide food policies and R&I strategies.

SUSFANS is working with partners to develop EU **food systems** that contribute to **health, environment, equity** and **viable enterprise**. Steering the EU food system towards a sustainability transformation requires a vast and actionable knowledge base available to a range of public and private actors. SUSFANS delivers high-quality research on **metrics, models** and **foresight** to support evidence-based **policies and innovation strategies** for a sustainable, and food and nutrition secure EU. The project is funded by the Horizon 2020.

In this workshop, SUSFANS will share results from the Project and discuss how these could be used to improve public health and the environment in the EU, the competitiveness of the EU agri-food sectors, and contribute towards global food and nutrition security. Workshops will be held in Czechia, Denmark, France and Italy with the aim of 'capturing' EU diversity.

What is in it for the participants?

- Get updated on the latest scientific insights, metrics and models for assessing, monitoring, and addressing European and national diets and food systems, with particular emphasis on consumer diets in one of the four countries: Czechia, Denmark, France and Italy.
- Discuss how future trends in food demand in Europe, towards 2030 or as far out as 2050, provides an opportunity to rethink the food system from quantity to quality. Which food innovation strategies and public food policies would improve future outlooks for nutrition and health, the environment, equity and viable enterprise?
- Discuss a common research and innovation (R&I) framework, at national and EU level, for addressing food systems transformation under the Food 2030 agenda. How to organise R&I from a multi-dimensional and multi-level perspective, which would include (1) healthier diets, environmental and economic outcomes together with social equity dimensions and (2) system interactions across country, EU and global scales?

Moderator

A moderator is crucial for workshops. Country representatives choose a moderator who has academic qualifications and professional experience with the SUSFANS outcomes, next to the skills and qualities to conduct the discussion. At the same time, the moderator should also facilitate the discussion, makes sure the conversation does not focus too quickly on one aspect, and formulates clear conclusions. The moderator should ask questions, listen, keep the conversation on track, and make sure that everyone has a chance to speak and share. Although most of the discussions will be in English, it is important that the moderator for each country also speaks the local language.

Documentation during the workshops

The workshops will be recorded and video materials will be used for the image analysis. The voice material will be used for content analysis. Thus, make sure the voice recorders are of good quality. The observer(s) should take notes, translate these notes into English if notes are taken in other languages, and send to WP11 in Word format.

Closing the session

Summarize the main conclusions, and provide time for final questions and remarks. Close by thanking them for their participation and good/open/etc. discussions and contribution. Allow stakeholders to post their questions, and/or leave their contacts in case they want further collaboration.

Methodologies

Future narratives

To provoke users' imagination of future scenarios, potential uses, and impacts of SUSFANS results and modelling toolbox, 3 rounds of interactive sessions will be run in the afternoon with the use of democs cards. Democs cards offer participants the possibility to choose the cards that they consider most relevant to discuss and add extra topics to. Cards facilitate a structured and open exchange of experience and knowledge. It is particularly important to make sure that the information about the user toolbox is presented in a way that it does not overly shape their responses during the workshops.

Democs cards

Democs cards will be developed by the SUSFANS team, and will be provided to local partners by WP11 before the workshop. Each card will represent one of the phases in

the assessing, modelling, and 'foresighting' SFNS. For each phase, a few options of suggestions of how SUSFANS results could be used will be described as a useful starting point. By doing so, we introduce the participants to the user toolbox in concrete terms. Participants should imagine what other impacts they expect, and what the application of the user toolbox might mean. They can choose the cards which are most relevant, and which they want to discuss. Participants will be able to add some more potential applications if they consider it relevant.

The cards should be printed on paper (A4 format) and with enough clear space for the participants to add their thoughts. At the end of the morning and afternoon sessions, the country representatives will collect the cards, translate them into English and report back to WP11.

SUSFANS user toolbox

Different outcomes of SUSFANS can be combined in a future user toolbox (this is not part of the present Project). Some parts of it could be accessed and used by stakeholders in their present form while others will need to be adjusted. In the workshop therefore we aim to gain more insights into stakeholders perception of the different outcomes of SUSFANS in terms of innovativeness, usefulness, and applicability. The latest can be used in a further project to develop SUSFANS user toolbox.

Evaluation and reporting

The workshop results will be evaluated in terms of (a) helpfulness to understand the toolbox, (b) usefulness to identify opportunities and challenges in adopting the toolbox, and (c) stakeholder/user intention (commitment) to consult the toolbox, while making agricultural and food and nutritional decisions.

The statements used in the discussions lead the discussion towards the usability of the toolbox services. The workshop report should summarise the outcomes of these discussions. An output format will be provided in which understanding, perceived usefulness of toolbox services, and intention to consult the toolbox should be clearly described. These outputs will then be analysed and reported by Gohar and Harriette.

Protocol for Part 1

In the first part of the workshop SUSFANS results will be shared with the stakeholders, who will have opportunity to ask questions of clarification. Stakeholders

will provide their reflection in terms of clarity, uniqueness, usability, and intention to use the SUSFANS outcomes. In addition, stakeholders will be asked to prioritize health and sustainability goals at the beginning of the morning and reprioritize towards the end of the session. This is done to facilitate discussion on the multidisciplinary approach of SUSFANS, combining health and sustainability issues, data, and methodologies.

Walk in (5 facilitators/ register)

- After registration each participant will be asked to choose 5 cards from one of the 14 specific goals below, that are also the main categories (outermost ring) in the visualizer (see figure 1).
- The facilitator records these on the form below, hands this over to the participant and asks him/her to give a weight to each of the selected goals.
- The facilitator can be the same person that would normally do the registration, but they have to make sure that everyone chooses cards and does the weighting task. The weighting will be done in the scale of [1:5], where 5 stands for the most important and 1 for less important.
- Since this will take more time than normal registration we will need more people at the desk than normally needed.

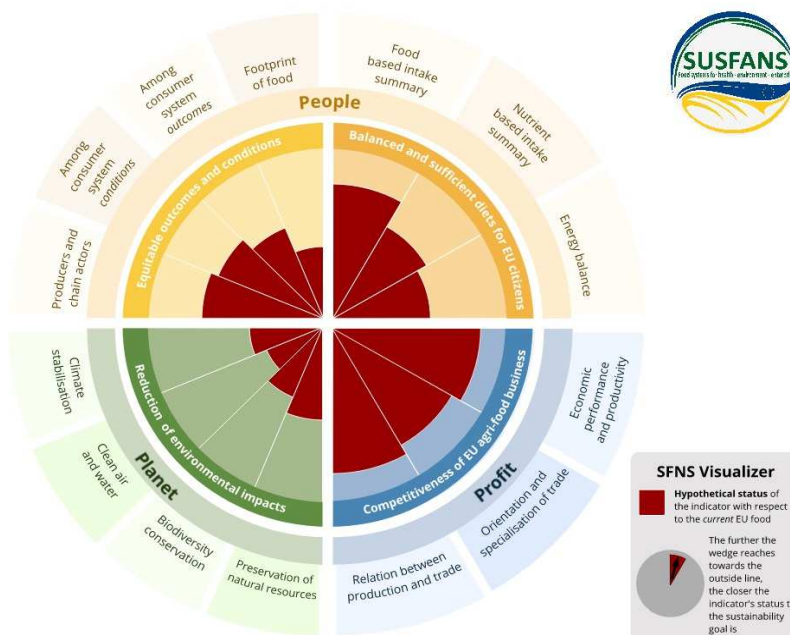


Figure 1. SUSFANS visualizer

Table 1. Health and sustainability goals

Policy goal	Specific goal	Explanation (draft version, will be updated)	Select your 5 main priorities and give a weight [1 : 5]			
			1 st round		2 nd round	
Balanced and sufficient diets for EU citizens	1. Energy balance	Indicator: % of the population that is overweight and obese	<input type="checkbox"/>		<input type="checkbox"/>	
	2. Adequate Nutrient intake	Indicator: Nutrient based summary score	<input type="checkbox"/>		<input type="checkbox"/>	
	3. Adequate Food intake	Indicator: Food based summary score	<input type="checkbox"/>		<input type="checkbox"/>	
Equitable outcomes and conditions	4. Equity among consumers (outcomes)	Concerning malnutrition in all its forms. Indicators: availability and accessibility of food and the stability of this.	<input type="checkbox"/>		<input type="checkbox"/>	
	5. Equity among consumers (conditions)	Concerning wealth, political stability, consumer & citizen empowerment	<input type="checkbox"/>		<input type="checkbox"/>	
	6. Equity among producers and chain actors	Access to resources, finance & technology, position of primary producers in the value chain	<input type="checkbox"/>		<input type="checkbox"/>	
	7. Equity in footprint of food	Resources embedded in and emissions related to food consumption and production, representing equity across the generations	<input type="checkbox"/>		<input type="checkbox"/>	

Reduction of environmental impacts	8. Climate stabilisation	GHG emission reductions, contribution to stable earth and maritime systems	<input type="checkbox"/>		<input type="checkbox"/>	
	9. Clean air and water	Nitrogen and phosphorus surplus, toxic substances	<input type="checkbox"/>		<input type="checkbox"/>	
	10. Biodiversity conservation	Agricultural land use diversity, reductions of the contribution of the agrifood chain to loss of mean species abundance (MSA)	<input type="checkbox"/>		<input type="checkbox"/>	
	11. Preservation of natural resources	Sustainable water use, exploitation of wild-caught seafood resources, and maintenance of soil fertility	<input type="checkbox"/>		<input type="checkbox"/>	
Competitiveness of the EU agri-food business	12. Relations between production and trade	Value added in the food system, production growth	<input type="checkbox"/>		<input type="checkbox"/>	
	13. Orientation and specialisation of trade	Economic performance of sectors in global playing field: trade orientation, trade specialisation	<input type="checkbox"/>		<input type="checkbox"/>	
	14. Economic performance and productivity	Economic performance of a sector, productivity cross-sector benchmarking	<input type="checkbox"/>		<input type="checkbox"/>	

Source: Zurek et al. (2018)

Welcome (country representative) - English

- Welcome, practical issues, and agenda
- Purpose of the workshop: To share the outcomes of SUSFANS. We hope that you will find it useful to consult/consider SUSFANS outcomes and modelling toolbox for assessing FNS in your decision making processes.
- Ask participants, if they have not done it yet, to choose their health and sustainability priorities at that moment and add a weight.

Introduction to SUSFANS (Thom) - English

- Introduction to the project
- Presentation of the outcomes, including the SUSFANS promotional materials
- Possibly we will use SLIDO (www.sli.do) for questions during the presentation
- Room for some clarifying questions, in English or with translator

Reflections to SUSFANS from a local perspective (country representative) - English

- Role and motivation for involvement in the project
- Reflection on the results from your personal expertise and position
 - What is new
 - What is the usability of the SUSFANS results for your work
 - Country specific context and relation to the country specific results (e.g. Mediterranean/Nordic/other diet, local policy, population)

Group discussion (4 facilitators) – Local Language

For the morning session – participants will form four groups of preferably homogeneous background (10-20 per group). If needed groups may be combined.

1. academics
 2. policy makers
 3. NGOs
 4. business (retail, production, processing companies)
- Discuss the presented results in terms of: Clarity, uniqueness, usability, and intention of stakeholders to use the outcomes
 - Assign one person to report plenary
 - Summarise with the groups what to report plenary

- Pay attention to the multi-disciplinary character of SUSFANS, if not mentioned by the stakeholders the moderator/facilitator should mention it.
- The 4 facilitators need to speak the local language and need to have good facilitation skills but do not need to be very familiar with SUSFANS outcomes. Their role is mainly to ask people's reaction to the results that has been presented and record the answers.
- Possible questions:
 - Clarity: "were the results clear?", "was it clear to you what they have done in the SUSFANS project?"
 - Uniqueness: "what is new in SUSFANS?"
 - Usability: "was it clear to you how you could use SUSFANS outcomes in your work?", "which outcomes seemed useful to you?", "which ones did not?"
 - Intention to use: "do you intent to use the SUSFANS results?" "What do you plan to do differently?"
 - "what would you differently?", "how do you perceive collaboration with SUSFANS?"

Reselect cards and priorities (4 facilitators) – local language

- The same homogeneous groups with the same facilitators
- The same assignment as during the walk-in
- First individually
- Then groups discussion:
 - which ones did you choose and why?
 - Did anything change? What? Why?
- Summarise the plenary session (the same person will report back to the group).

Plenary discussion – local language

- Short presentation of the results, questions and reactions per group
- The moderator facilitates interactive discussion, and, very importantly, **keeps track of the time**
- Groups reporting will be translated into English by a translator

Wrap up and closure (Thom) - English

- Observations of the discussion
- Thank everyone

Protocol for Part 2:

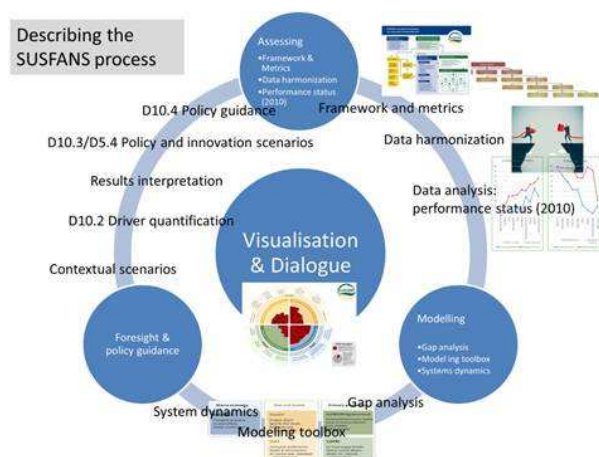
For the afternoon session:

- A heterogeneous group will be formed with key stakeholders from the different disciplines.
- It will preferably be in English, if this is not comfortable for the participants a translator will be used throughout.
- The moderator should have general understanding of the SUSFANS results and understand the field of sustainable food and nutrition security. Alternatively, the moderator could work closely with Thom: Thom will provide the SUSFANS input and the moderator will monitor and facilitate the discussion process.
- The moderator facilitates a good and open atmosphere and keeps track of the time.
- SUSFANS team will have interactive discussions with the key stakeholders
- The key stakeholders will be closely engaged in toolbox development and, will provide insights and feedback in possible application of the tools. Moreover, key stakeholders are expected to play a SUSFANS ambassador role in further dissemination of the toolbox results as to be a standard practice.
- The SUSFANS approach will guide the discussion. For each of the three phases (assessing, modelling, foresight and policy guidance) we will discuss stakeholders current practices, SUSFANS approach and the difference between those.

The SUSFANS approach

The SUSFANS approach is structured in three phases (see figure 2)

1. The Assessing
 - a. Framework and metrics
 - b. Data harmonization
 - c. Data analysis: performance status (2010)
2. Modelling
 - a. Gap analysis
 - b. Modelling toolbox
 - c. System dynamics
3. Foresight and policy guidance
 - a. Contextual scenarios



- b. Driver quantification
- c. Results interpretation
- d. Policy and innovation scenarios
- e. Policy guidance

Short introduction (country representative)

- Introduction round (name, where you work, your relation to the project – if any)

Summary of the morning discussion (Thom, moderator)

- Main observations, just to fresh up the minds
- Explain the purpose: This afternoon we will have a deeper look into the SUSFANS outcomes and modelling toolbox to see how this could be applied in your work now and in the future.
- Explain the program:
 - that we will have 3 sessions: assessment, modelling and foresight
 - that we will then discuss future plans and possible follow ups.

Groups discussion

The discussion will be in three sessions: one session per SUSFANS phase. For each phase the following procedure will be followed:

Introduction of the phase

- Thom will explain the phases (e.g. what is the assessment phase)
 1. **Assessing** the state of EU FNS at sub-regional level (including the implications of fisheries and aquaculture)
 2. Monitor its development, to carry out short-term projections and evidence-based risk assessments and to implement quantitative **modelling** of alternative future scenarios to aid the design and formulation of longer term agro-food policies
 3. Bring about **foresight** and identify long-term challenges to FNS and the role of the EU agro-food sector, thus improving the capacity of related policies to provide appropriate answers.
- Moderator will ask how the stakeholders operate in this phase (e.g. how do you assess the SFNS for your country). What data and methodologies do they use?
- Explain the SUSFANS process within this phase (e.g. framework and metrics, data harmonisation): how does it work, what is innovative, what are the benefits of the SUSFANS process.

Individual task DEMOCS cards

- Show the DEMOCS cards that are relevant for that phase (3 - 5 cards in total)
- Ask participants to pick one card and fill-in the blanks

Groups discussion DEMOCS cards

- The moderator facilitates a discussion, allowing participants to express their personal opinion and give feedback
 1. What is ready to be applied in your work?
 2. What would also be relevant, and what is not?
 3. What is needed in future to apply the relevant parts, how, where, and who could provide this?
 4. What would be the impact of applying it?
 5. What would the application of user toolbox mean for you, for your community and for the world?
 6. How might it affect your daily life?
 7. To what extent would that contribute to sustainability and health?
 8. **Also pay attention to the cards that were not selected, why did no one choose that one?**

Open discussion: Further collaboration and follow-up projects (Karin)

Wrap up and closure - English

- General observations
- Thank everyone

Appendices

- A. DEMOCS cards (appendix A)
- B. Agenda for stakeholders (Appendix B)
- C. SUSFANS visualizer (Appendix C)
- D. Evaluation forms (Appendix D)
- E. Reporting form

Appendix A: DEMOCS cards

CARD 1: Assessing - Framework and metrics

The main message: SUSFANS provides an overview of performance metrics, indicators and variables to assess food and nutrition security (FNS) in EU and sustainability performance of EU food system across policy fields and outcomes.

Innovation: System approach which combines the sustainability goals with food and nutrition security goals.

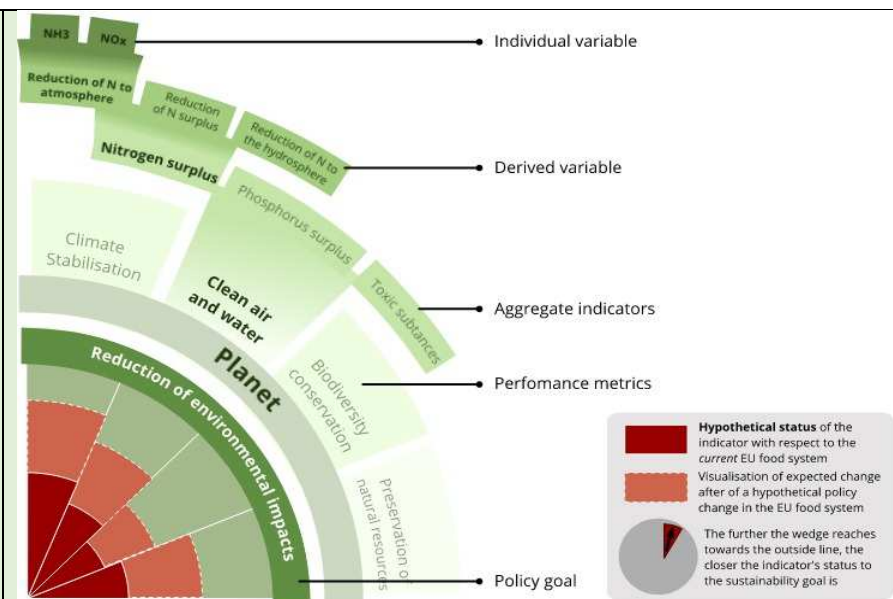
- The approach is based on a set of integrated performance metrics that allow for assessment of such innovations from various angles, thereby revealing synergies and trade-offs.
- It puts forward a transdisciplinary, multidimensional model that emphasizes usability for a wide range of food system actors
- It explicitly includes social equity as part of food system assessments

Benefit: Having complete overview of the different policy goals and performance metrics will help the stakeholders to start informed dialogue.

What can I change in my practice:

What impact do I expect from this change:.....

Other:



Example of policy goals unfolded to individual variables

CARD 2: Assessing - Data harmonization

The main message: SUSANS provides a protocol for harmonising data across policy fields and advanced integrated assessment.

Innovation: Linked data over dataset and cross countries using:

- food agriculture (FAO, eurostat)
- Harmonised data across policy fields and advanced integrated assessment
- Life cycle assessment data, EU / global dataset
- individual food intake data (FoodEx2)
- Nutritional epidemiology (FoodEx)

Country surveys vary in of samples (recruitment methods, household and individual representativeness, number of subjects per household and weighting factors used), methods of dietary assessment, and the number of days included in the dietary assessment. SUSFANS provides a protocol how to overcome these differences and link data.

Benefit: compare countries on intake and outcomes, **link intake and supply data what is the benefit?????**

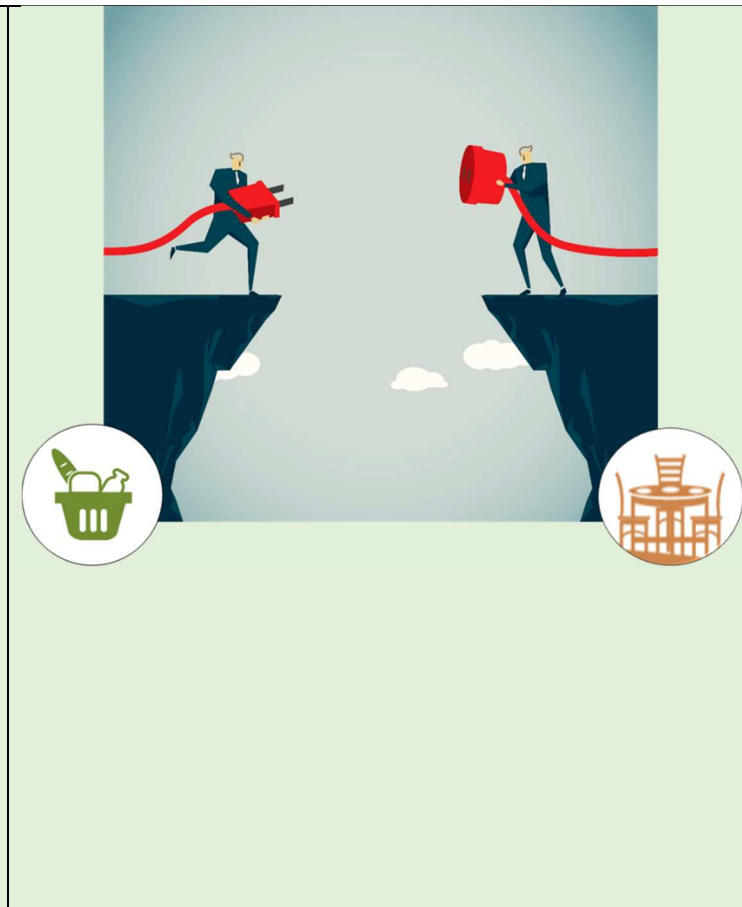
What can I change in my practice:

.....

What impact do I expect from this change:.....

.....

Other:



CARD 3: Assessing - Data analysis: performance status (2010)

The main message: Data analysis of linked data enables a comparison between countries and within countries (e.g. demographics and anthropometrics). Comparison of dietary intake and environmental impact of diets across countries allows for comparison of adherence to food-based dietary guidelines and nutrient reference values.

Innovation: Often diet-associated environmental impact was quantified using food availability data related to food production. Using individual-level consumption data might, therefore, be regarded as a useful tool in the connection between health and environment with foods as their common denominator. Foods are the constituents of a dietary pattern and the common denominator for linking dietary intakes with health, environment, affordability, consumer's preferences, etc. In SUSFANS modelling dietary intake data in terms of foods in addition to nutrients is used.

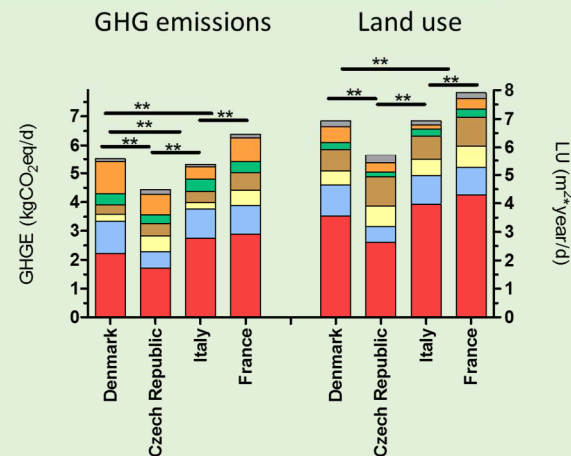
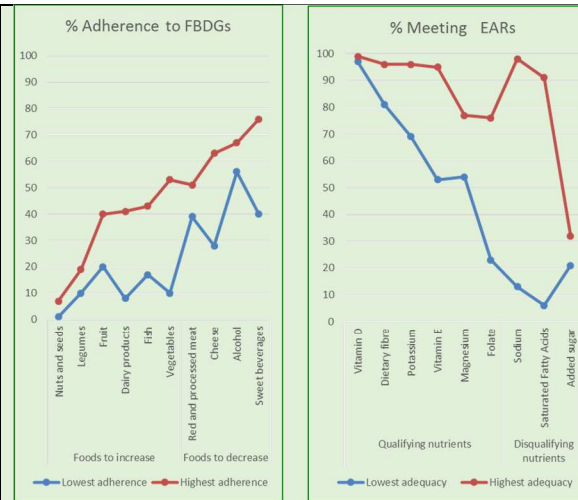
Benefit: The diversity between countries in food intake can be related to local policies and health outcomes.

What can I change in my practice:

What impact do I expect from this change:.....

Other:

Diet data from four EU countries (Mertens et al. 2018)



Total greenhouse gas emissions (GHGE, in kg CO₂-equivalents/day) and land use (LU, in m²·yr/day) calculated for a 2,000 kcal diet associated with dietary patterns of four European countries.

Variation in GHG emission and land use from EU diets

<p>CARD 4: Modelling - Gap analysis</p> <p>The main message: to be filled-in by susfans team</p> <p>Innovation: to be filled-in by susfans team</p> <p>Benefit: to be filled-in by susfans team</p> <p>What can I change in my practice:</p> <p>.....</p> <p>What impact do I expect from this change:.....</p> <p>.....</p> <p>Other:</p>	
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CARD 5: Modelling - Modelling toolbox

The main message: assessing diet & food system transformations.

Innovation: combining models macro-economy, diet and health, and primary production

Benefit: Academic insights and methodology development:

- Increased accuracy in sustainability metrics related to agricultural production and environmental impact
- Better capture of diets
- Synergies/ trade-offs: sustainability and nutrition
- Adding a direct link from macro variables to micro level impact

What can I change in my practice:

.....

What impact do I expect from this change:.....

.....

Other:

Macro-economy

MAGNET

Complete economy;
Income effects.
Global, country level

Diet and health

SHARP

Product detail;
Specific diet needs.
EU level

DIET

Consumer preferences;
Health & environment.
EU level

Primary production

GLOBIOM/Agriprice4cast

Environmental impacts; Spatial detail; Primary production price volatility.
Global, grid level

CAPRI

EU food supply details;
Global market details.
Global, EU, national, province level

CARD 6: Modelling - System dynamics

The main message: to be filled-in by susfans team

Innovation: to be filled-in by susfans team

Benefit: Understand trade-offs and complementarities between Climate Change mitigation and diet preference shift regarding sustainability impacts

What can I change in my practice:

.....

What impact do I expect from this

change:.....

.....

Other:

CARD 7: Foresight - Contextual scenarios

The main message: Contextual scenario's describe in narratives possible future developments focusing on the main challenges and drivers for the sustainable FNS in Europe:

- Demographic and income trends
- Technological change
- International trade policies
- Climate change: Impacts & Mitigation
- Policy context: Current agricultural and fisheries policies

Additionally, the scenario's are translated into quantitative model drivers (klopt dit???? En wat wil het zeggen???)

Innovation: to be filled-in by susfans team

Benefit: to be filled-in by susfans team

What can I change in my practice:

.....

What impact do I expect from this

change:.....

.....

Other:

Contextual scenario

Stakeholder scenario*

Business as usual (REF0)

Scenario 1

High challenges to EU FNS (REF-)

Scenario 4
Scenario 6

Low challenges to EU FNS (REF+)

Scenario 7

Source: Zurek et al. (2017), SUSFANS deliverable report D6.2

CARD 8: Foresight - Driver quantification

The main message: SUSFANS provides maps of the current situations on key assumptions for EU & World: Population growth, economic growth, food distribution inequality, technological change (crops and livestock), climate change impacts, climate change mitigation, policies (trade, agriculture, fishery)

Innovation: to be filled-in by susfans team

Benefit: to be filled-in by susfans team

What can I change in my practice:

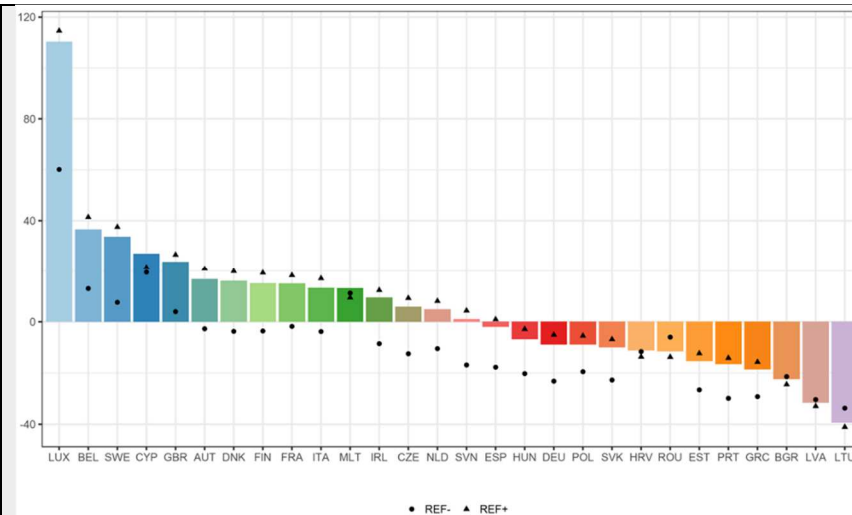
.....

What impact do I expect from this

change:.....

.....

Other:



Example: Total population change for EU countries between 2010 and 2050 in REFo (bars) [%]

CARD 9: Foresight - Results interpretation

The main message: to be filled-in by susfans team

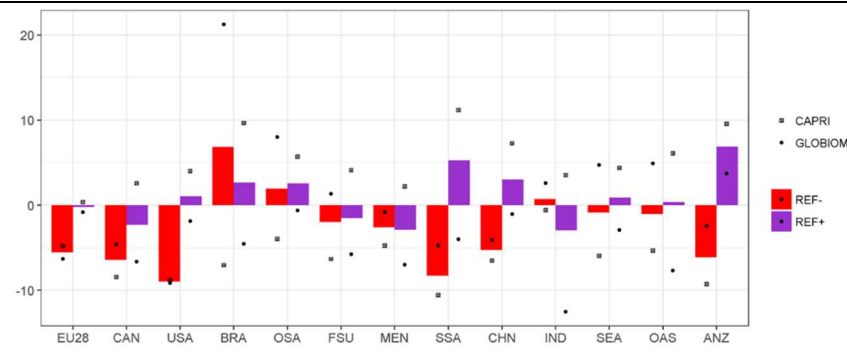
Innovation: to be filled-in by susfans team

Benefit: to be filled-in by susfans team

What can I change in my practice:

What impact do I expect from this change:.....

Other:



Relative change in agricultural GHG emissions across contextual scenarios (REF-, REF+) compared to the baseline (REFo) scenario by 2050 [%]

Frank et al . (2018) <http://edepot.wur.nl/460834>

CARD 10: Foresight - Policy and innovation scenarios	Strategy	Animal Sourced Foods (ASF)	Fruits and Vegetables (F&V)
The main message: to be filled-in by susfans team Innovation: to be filled-in by susfans team Benefit: to be filled-in by susfans team What can I change in my practice: What impact do I expect from this change:..... Other:	Product(ion)	Focus on including insects in livestock and fish feed	product innovation packaging & branding processed products production chain
	Consumption	Reducing meat intake Replacing beef with other ASF (incl fish) Novel protein source (pref in-vitro meat)	Targeting groups. Motivation, social context, communicating to inform. Improving acceptance of technology and products.
	Circular	Use products that people don't or can't eat as livestock feed + fishing 'at ecological equilibrium'	Rest stream (animal feed, package, ..) Food waste (support planning, buying, storing, preparing & left-overs).

<p>CARD 11: Foresight - Policy guidance</p> <p>The main message:</p> <p>The evidence base</p> <ul style="list-style-type: none"> – What innovations need to be implemented? – What are knowledge gaps, inhibiting action? <p>The stakeholders (supply chain, consumer, health)</p> <ul style="list-style-type: none"> – What synergies do you see as a stakeholder? (quick wins, opportunities) – Where are potential conflicts (what & with whom?) – Barriers / opportunities for system change in current policies? <p>Policies</p> <ul style="list-style-type: none"> – What policy domains involved? How to handle the trade-offs? – High-level foresight on the challenges for FNS (near future, longer term) – Formulate longer term policies on basis of advanced quantitative tools <p>Innovation: to be filled-in by susfans team</p> <p>Benefit: to be filled-in by susfans team</p> <p>What can I change in my practice:</p> <p>.....</p> <p>What impact do I expect from this change:.....</p> <p>.....</p> <p>Other:</p>	<p>Example: Identify 1 leading national policy question, demonstrate relevance of SUSFANS toolbox for this issue in the foresight work? Such as the Nordic diet.</p>
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Appendix B: Agenda for stakeholders

Short Agenda for stakeholder invitations

PART 1

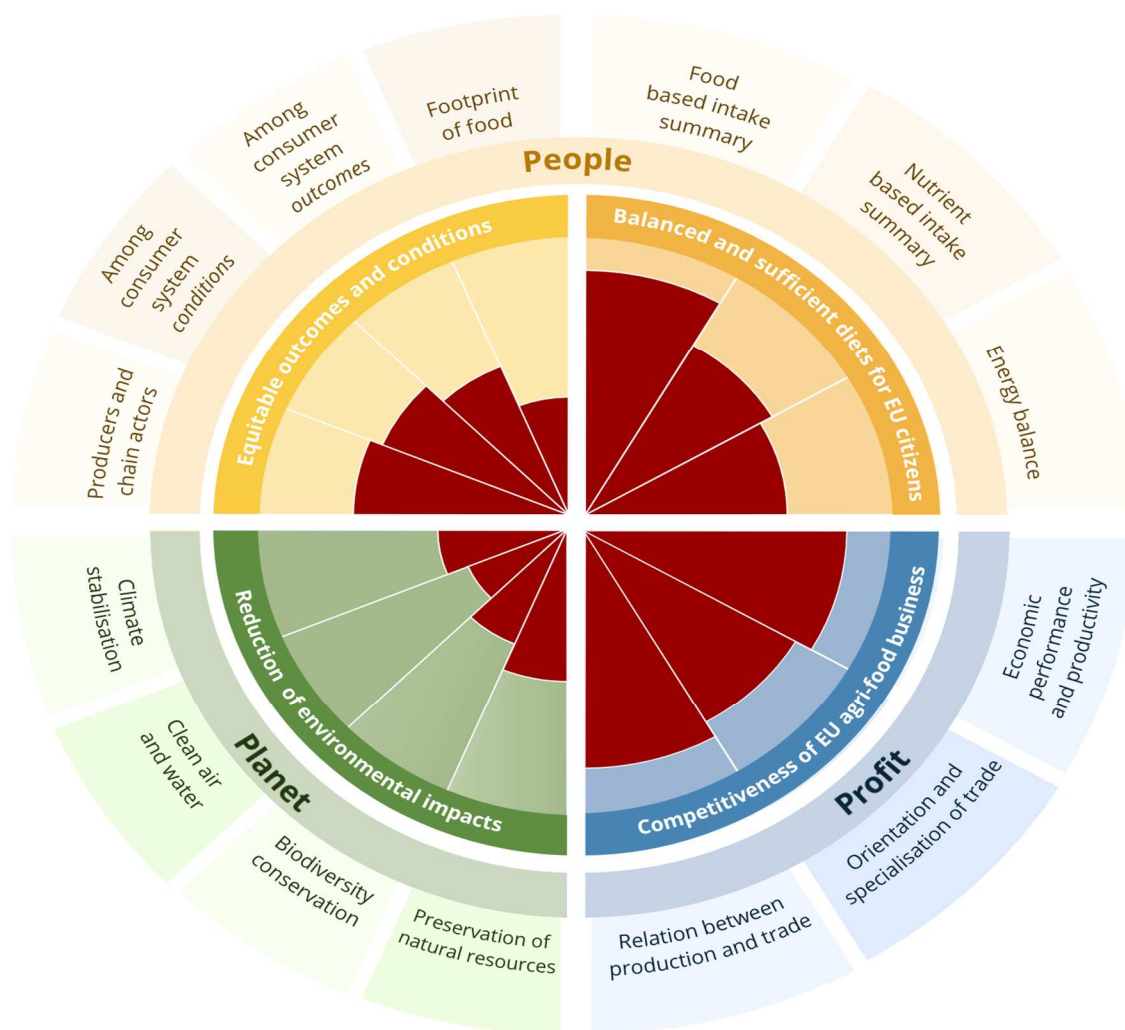
Start	What
9.30	Walk-in with coffee/tea Individual task of selecting health and sustainability priorities
10.00	Welcome, practical issues (i.e. agenda), purpose of the workshop
10.10	-Introduction to SUSFANS and main outcomes -Introduction to the SUSFANS toolbox (presentation and film)
10:40	Reflections to SUSFANS from the national perspective
10.50	Coffee break
11.05	Group discussions SUSFANS results on: -Assessing sustainable food and nutrition security (SFNS) -Monitoring development, risk and challenges of SFNS
11:30	Group discussions health and sustainability priorities
12:15	Plenary session: Conclusions from each group discussions
12:45	Wrap –up and closure
13:00– 14.00	Lunch

PART 2

TIME	WHAT
14.00	Short introduction to each other and relation with SUSFANS
14:10	Summary of morning discussion and purpose of afternoon session
14:20	Round 1: Assessment _ Led discussion
14:50	Round 2: Modelling _ Led discussion
15:20	Coffee break
15.40	Round 3: Foresight _ Led discussion
16:10	Summarizing and main conclusions
16:20	Further collaboration and follow-up projects _ open discussion
16.40	Closure

Note: ask stakeholders to indicate in the invitation if they want to participate in the afternoon session. If more than 8 participants want to participate a selection will be made according to their experience.

Appendix C: SUSFANS visualizer



Appendix D: Evaluation forms

SUSFANS Stakeholder workshop evaluation and feedback

Date of the workshop? ____/____/____

City, country _____

Morning session ☐ Afternoon session ☐

Please indicate to what extent do you agree with the following statements:

[1- strongly disagree, 2- disagree, 3 – neutral, 4 – agree, 5 – strongly agree]

Communication and Venue

Pre-event communication was effective. ① ② ③ ④ ⑤

The venue and other facilities were convenient. ① ② ③ ④ ⑤

Sessions

The workshop met my expectations. ① ② ③ ④ ⑤

Questions asked during the workshop were clear. ① ② ③ ④ ⑤

The atmosphere during the discussion was open and transparent. ① ② ③ ④ ⑤

The timing during the session was optimal. ① ② ③ ④ ⑤

I had enough possibility to express my opinion. ① ② ③ ④ ⑤

If ① ② or ③ , please write down your opinion that you could not express during the sessions.

Participants

I have learnt a lot from other participants. ① ② ③ ④ ⑤

My participation allowed me to expand my network. ① ② ③ ④ ⑤

The moderator

Was focused on the subject ① ② ③ ④ ⑤

Created an open atmosphere ① ② ③ ④ ⑤

Effectiveness of the workshop:

I got insights in scientific standards for assessing sustainable food and nutrition security. ① ② ③ ④ ⑤

I understand sustainability trade-offs between scenarios. ① ② ③ ④ ⑤

I have received applicable practical tips today. ① ② ③ ④ ⑤

I got insights in how the tools and models developed by SUSFANS can impact sustainable food and nutrition security. ① ② ③ ④ ⑤

I am planning to consult the suggested tools and models. ① ② ③ ④ ⑤

I would recommend SUSFANS tools to a colleague or friend. ① ② ③ ④ ⑤

The workshop helped me to understand the SUSFANS outcomes. ① ② ③ ④ ⑤

Overall this was a high quality event. ① ② ③ ④ ⑤

General Comments:

What was/were the most important topics for you?

What do you think will be the impact of this knowledge in your own job?

Would you be interested in follow up collaborations? ☐ Yes ☐ No

If yes, on what topics?

For us to contact you on this final topic

please leave your email address: _____

Thank you for your time

Appendix E

SUSFANS EUROPETOUR WORKSHOP REPORTING FORMAT

Heading page containing Title , Date, Location, Contact info, SUSFANS format

Short introduction

Write a short introduction about the workshop

- *Some key facts, when, where, the participants, etc.*

Content

Add Table of Content

Task at registration

Process the task into the following table and provide a data file with the data per person without personal data but with participants background (academic, policy, industry)

Policy goal	Specific goal	No of times chosen in the morning	Average weight and sd	No of times chosen in the afternoon	Average weight and sd
Balanced and sufficient diets for EU citizens	15. Energy balance				
	16. Adequate Nutrient intake				
	17. Adequate Food intake				
Equitable outcomes and conditions	18. Equity among consumers (outcomes)				
	19. Equity among consumers (conditions)				
	20. Equity among producers and chain actors				
	21. Equity in footprint of food				

Reduction of environmental impacts	22. Climate stabilisations				
	23. Clean air and water				
	24. Biodiversity conservation				
	25. Preservation of natural resources				
Competitiveness of the EU agri-food business	26. Relations between production and trade				
	27. Orientation and specialisation of trade				
	28. Economic performance and productivity				

Overview plenary presentations

- *Summary purpose of the workshop*
- *Summary presentation SUSFANS outcomes*
- *Reflections to SUSFANS from a local perspective: summarize the key messages*
- *Summary of the main issues in the questions and discussion part*

Group discussions morning session

Please report for each group (group leaders):

- *Group formation and specific questions (Health and sustainability goals) per group*
- *Main conclusions per group on:*
 - *Clarity*
 - *Uniqueness*
 - *Usability*
 - *Intention of stakeholders to use the SUSFANS outcomes*
 - *Other issues*

Use group discussions and the plenary reporting

Report the summary of the main issues in the plenary discussion. Thus, the additional questions and issues raised beyond group discussions.

Discussion afternoon session including

Details of the contents of the workshop activities (who, what, when, how)

Selected cards per participant and discussions (who selected what and what was his/her arguments?)

Please report for each group (group leaders):

- *Group formation and specific questions (DEMOCs cards) per group*
- *Main conclusions per group on:*
 - *Clarity*
 - *Uniqueness*
 - *Usability*
 - *Intention of stakeholders to use the SUSFANS outcomes*
 - *Other issues*

Use group discussions and the plenary reporting

Report the summary of the main issues in the plenary discussion. Thus, the additional questions and issues raised beyond group discussions.

Main conclusions (including any changes of cards and additional comments made on cards based on workshop discussions)

Conclusions

Overall conclusions

Future steps/ agreements

Challenges and opportunities identified by the participants (morning and afternoon sessions separate)

Challenges and opportunities identified by facilitators

Workshop recommendations

Follow-up action plan

Evaluation

Evaluation by participants

Evaluation by facilitators

Appendices

Changes to the workshop programme (if any)

Participants list (title, name, company, phone no, e-mail)

Facilitators profiles

Acknowledgements