

Metrics, Models and Foresight for European Sustainable Food and Nutrition Security (SUSFANS)

1st Stakeholder Core Group Workshop

30 October 2015 Prague, Czech Republic









1st Stakeholder Core Group Workshop

on 'Metrics, Models, and Foresight for European Sustainable Food and Nutrition Security (SUSFANS)' 30 October 2015, Prague, Czech Republic

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About the SUSFANS Project









1st Stakeholder Core Group Workshop on 'Metrics, Models, and Foresight for European Sustainable Food and Nutrition Security (SUSFANS)'

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About the SUSFANS Project

Working towards 'EU food systems for health, environment and enterprise'...

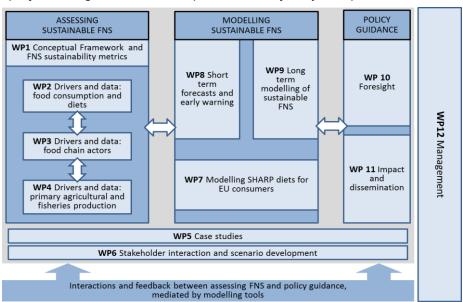
SUSFANS wants to make a leading scientific contribution to a balanced and encompassing view on improving food and nutrition security outcomes and making food in the European Union (EU) more sustainable. In short: to achieve sustainable food and nutrition security (FNS) in the EU. Our research is led by the notion that improvements in the diets of the European consumer must come from, and be supportive of, food systems that contribute to public health, environmental protection and thriving enterprise in the long term.

...by delivering high-quality research to support evidence-based policies and innovation strategies for a sustainable and food- and nutrition-secure EU.

SUSFANS will deliver high-quality research on metrics, modelling and foresight to improve the navigation on sustainable food in the public and private arena. The group of sixteen organisations in SUSFANS responsible for delivering and disseminating research will cross barriers between the social sciences and agricultural and other food-related disciplines, and will engage intensively with stakeholders in the European food system. In doing so, SUSFANS builds bridges between the worlds of agriculture and food on one hand, and public health and nutrition on the other.

The specific objective of SUSFANS is to build a conceptual framework, an evidence base and analytical tools for underpinning EU-wide food policies – with respect to their impact on consumers' diets, on nutrition and public health, on the environment, on the competitiveness of the EU agricultural-food sector, as well as on global food and nutrition security.





With the integration of metrics, models and foresight, SUSFANS aims to set a scientific standard for assessing sustainable food and nutrition security in the EU. The project will inform policy reforms and innovations that contribute to better alignment of healthy consumption and food production in the EU. The exchange with stakeholders is considered essential for the research agenda and its impact towards a European food system.









Purpose of the Workshop and Organising Committee Members









Purpose of the Workshop

Background

An important part of the SUSFANS project is to collect input from all stakeholder groups involved in food systems at all levels.

Therefore, a Stakeholder Core Group (SCG) which consists of 30 selected experts and decision-makers representing a wide range of stakeholder communities and hence "worldviews" (e.g. primary producers, food industry, retail, consumer groups, investors, regulators, policymakers and academics) was created. This SCG will advise the SUSFANS' consortium on key topics during 4 workshops (e.g. October 2015, end 2016, mid 2017 and mid 2018).

Objective

This first workshop will introduce the SUSFANS project with a special focus on the Work Package 1 "Conceptual framework and food and nutrition security (FNS) sustainability metrics" and the Work Package 6 "Stakeholder interaction and scenario review".

Organising Committee Members

Dr John Ingram – **Chair** University of UK Oxford

university of OXFORD C1

Dr Pierre Dussort – Vice-Chair International Life BE

Sciences Institute, Europe (ILSI Europe)



Mr Thom Achterbosch LEI Wageningen NL

University

LEI WAGENINGEN UR

Dr Monika Zurek University of UK

Oxford













Workshop Programme







PROGRAMME

Overall Chair: Dr John Ingram (UOX, UK)

Overall Co-Chair: Prof. Diána Bánáti (ILSI Europe, BE) Overall Rapporteur: Dr Monika Zurek (UOX, UK)

Session 1: Introduction of the Project

09.00 Introduction Thom Achterbosch (LEI-WUR, NL)

09.30 Presentation of WP1 and WP6

John Ingram (UOX, UK)

09.45 Presentation of the Stakeholder Core Group Roles

Pierre Dussort (ILSI Europe, BE)

09.55 Short Set of Stakeholder Views

Karen Fabbri (DG RTD, BE)/ Sheila Wiseman (Unilever, NL)/ Jane Wallace-Jones (WWF, UK)

10.20 Q & A

10.30 Refreshment Break

Session 2: Conceptual Framework and Sustainability Metrics

11.00 Plenary Session: Introduction to SUSFANS Conceptual Framework and Sustainability Metrics

Monika Zurek (UOX, UK)

11.15 Four Working Groups (1 to 4) each Discussing Conceptual Framework and Sustainability Metrics

John Ingram (UOX, UK)/ Monika Zurek (UOX, UK)/ Joost Vervoort (UOX, UK)/ Louis-Georges Soler (INRA, FR)

12.30 Lunch

13.30 Plenary Feedback Session



Session 3: Case Studies and Explorative Scenarios

14.00 Plenary Session: Introduction to Case Studies and Explorative Scenarios

Joost Vervoort (UOX, UK)/

Inge Tetens (DTU, DK)

14.15 Working Groups 5 and 6 each Discussing Case Studies

Hannah Van Zanten (WUR, NL)/ Inge Tetens (DTU, DK)

14.15 Working Groups 7 and 8 each Discussing Existing Explorative Scenarios for Exploring Sustainable Diets

Joost Vervoort (UOX, UK)/ Monika Zurek (UOX, UK)

15.15 Plenary Feedback Session

John Ingram (UOX, UK)

15.55 Workshop Conclusion

Thom Achterbosch (LEI-WUR, NL)

16.00 Refreshment Break

SUSFANS
Food systems for health - environment - enterprise





Abstracts and Biographies







SUSFANS 1st Stakeholder Core Group Workshop Officers

Overall Chair: Dr John Ingram

University of Oxford, United Kingdom

Biography

Dr John Ingram gained extensive experience during the 1980s working in East and Southern Africa, and South Asia in agriculture, forestry and agroecology research projects. In 1991, he joined the UK's Natural Environment Research Council to develop research on global change and agroecology as part of International Geosphere-Biosphere Programme. In 2001, he was appointed Executive Officer for the international project 'Global Environmental Change and Food Systems' (GECAFS). On the close



of GECAFS in 2011, he became NERC's 'Food Security Leader'. He left NERC in April 2013 to join Oxford University's Environmental Change Institute to establish ECI's Food Systems Research and Training Programme. He is collaborating closely with the public-private-academic 'Center for Integrated Modeling of Sustainable Agriculture & Nutrition Security' (CIMSANS) of the International Life Sciences Institute Research Foundation (ILSI-RF).

Overall Co-Chair: Prof. Diána Bánáti ILSI Europe, Belgium

Biography

Following her graduation in Food Science and Technology (M.Sc.) at the University of Horticulture and Food Industry of Budapest, Prof. Bánáti earned, mainly in food-science-related fields and law, in rapid succession further university degrees (M.A, PhD) at various Hungarian academic institutions. She has soon grown out of the national frame. Postgraduate courses and/or extended study visits abroad (e.g., to the USA, Japan, the Netherlands, the United Kingdom, the European Commission and the



Republic of South Africa) propelled her into international orbits. There she firmly has established herself ever since. In her native country, Hungary, following periods of various academic appointments, she became the youngest ever Director General of the internationally recognised Central Food Research Institute (CFRI/KÉKI). In addition, she acted as a Ministerial Commissioner for food safety and international scientific research cooperation as well as Chief Scientific Advisor to the Hungarian Minister of Rural Development. In her impressively distinguished carrier, a particularly important landmark was her election to the prestigious functions of Vice-Chair and – with her hitherto unprecedented re-election – of Chair of the Management Board of the European Food Safety Authority (EFSA). Currently, she is the *Executive and Scientific Director* of the International Life Sciences Institute, Europe (ILSI Europe). Prof. Bánáti is universally regarded as an eminent expert in food safety and policy, food legislation and consumer sciences. She has been elected or appointed member of several international scientific organisations (e.g. FAO/WHO Codex Alimentarius, EFFoST, OECD, European Group on Ethics in Science and New Technologies of the European Commission). Currently, she is elected Fellow of the







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International Academy of Food Science and Technology (IAFoST) and a member of Academia Europaea. She is also member of several Editorial Boards including *Acta Alimentaria, International Journal of Horticultural Science*, and *Food Science and Technology*. Prof. Bánáti has authored 120 peer-reviewed publications, 43 book chapters and more than 100 conference proceedings and abstracts pertaining to fields enumerated above. She has also organised and chaired countless national and international conferences (e.g. EFFoST, CEEFood) and was extensively involved in national and international R&D programmes and EU research projects (FP6, FP7).

Overall Rapporteur: Dr Monika Zurek University of Oxford, United Kingdom

Biography

Dr Monika Zurek is a senior researcher at the Environmental Change Institute at the University of Oxford and a member of the ECI Food Systems Group. For more than 15 years, she has worked on food systems, environment and development interactions in research and international organizations as well as in the consulting and the philanthropic sector. In the Horizon 2020 SUSFANS project, Dr Zurek is part of work packages 1 and 6, working both on the development of the conceptual framework for food and



nutrition security (FNS) and on stakeholder engagement and scenario use on the future of FNS in the EU. Prior to joining ECI, she worked with Climate Focus, a consulting firm focusing on climate change mitigation and land use issues. Previously, she was part of the Agricultural Development Team of the Bill & Melinda Gates Foundation managing grants to improve the environmental sustainability of agricultural systems. Dr Zurek also served as an economist at the Food and Agriculture Organization (FAO) and supported the Scenarios Working Group of the Millennium Ecosystem Assessment. She started her career as a researcher at the International Maize and Wheat Improvement Center (CIMMYT), working on agricultural sustainability projects in Costa Rica and Mexico. She was also a lead author for various environmental assessments assessments, such as the Intergovernmental Panel on Climate Change (IPCC), the Millennium Ecosystem Assessment and the International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD). Dr Zurek holds degrees from the University of Hohenheim (MSc equivalent/Diploma in Agricultural Biology) and Justus-Liebig-University Giessen, Germany (PhD in Agricultural Economics).







Welcome and Introduction of SUSFANS

Mr Thom Achterbosch
LEI Wageningen UR, The Netherlands

Biography

Mr Thom Achterbosch is senior researcher in international policy at the Agricultural Economics Institute (LEI) at Wageningen University and Research Centre. His research interests include global food and nutrition security; agricultural transformation and agricultural trade policies in developing countries; and sustainable development. He moderates a team of researchers who often apply the economy-wide model MAGNET as a research tool for the evaluation of various food, health and agricultural



policies, often in combination with micro-level data. He (co-) leads multidisciplinary research programs on the long-term challenges related to food insecurity and malnutrition, including the EU research programs SUSFANS and FOODSECURE and the recently concluded Wageningen-wide program 'Global food security: Scarcity and transition'.







Presentation of Work Package 1 and Work Package 6

Dr John IngramUniversity of Oxford, United Kingdom

Biography

Dr John Ingram gained extensive experience during the 1980s working in East and Southern Africa, and South Asia in agriculture, forestry and agroecology research projects. In 1991, he joined the UK's Natural Environment Research Council to develop research on global change and agroecology as part of International Geosphere-Biosphere Programme. In 2001, he was appointed Executive Officer for the international project 'Global Environmental Change and Food Systems' (GECAFS). On the close



of GECAFS in 2011, he became NERC's 'Food Security Leader'. He left NERC in April 2013 to join Oxford University's Environmental Change Institute to establish ECI's Food Systems Research and Training Programme. He is collaborating closely with the public-private-academic 'Center for Integrated Modeling of Sustainable Agriculture & Nutrition Security' (CIMSANS) of the International Life Sciences Institute Research Foundation (ILSI-RF).







Presentation of the Stakeholder Core Group Roles

Dr Pierre Dussort

ILSI Europe, Belgium

During 4 parallel working groups, experts will actively review, help refine and provide feedback on:

- the SUSFANS Conceptual Framework that serves as an overall project guide;
- a set of metrics to assess the overall sustainability of the food system, balanced across the range of world views on the assessment of the environmental, social and economic dimensions of sustainable food;
- case studies that will include a) proteins from livestock-fish supply chains and b) micronutrients from fruits and vegetables supply chains;
- existing explorative scenarios, so as to identify their most salient features for exploring sustainable diets and food systems in the EU, within a global context of food security and climate change.

Biography

Dr Pierre Dussort is a Scientific Project Manager at the International Life Sciences Institute, Europe (ILSI Europe) since July 2015. He holds a PhD in Food Sciences and a MBA from the University of Burgundy, Dijon, France, as well as a life-science engineering degree from AgroParisTech, Paris, France. He has been working on various projects related to food sciences aiming, for instance, at developing more nutritious products or implementing more sustainable production processes. He is now involved in the H2020



SUSFANS project as co-leader of WP6 'Stakeholder Interaction and Scenario Review'.







Stakeholder Views – Policy Institution Perspective

Dr Karen FabbriEuropean Commission, Belgium

Biography

Dr Karen Fabbri obtained her PhD in Decision Support Frameworks for Integrated Coastal Zone Management from the Free University of Amsterdam. She began her working career with the Canadian International Development Agency in the early 1990s, where she established a land evaluation facility in Dhaka (Bangladesh) in support of crop diversification. She then held serval posts in industry and research before joining the European Commission's Directorate General for Research and Innovation



(DG RTD) in the late 1990s. Since then, she has remained active in research and innovation policy development and implementation, in particular related to disaster risk reduction and emergency management, sustainable urban and coastal management, and responsible research and innovation. As a senior policy officer, she is currently leading a newly-established research and innovation Task Force on Food and Nutrition Security, within the Bioeconomy Directorate of DG RTD.







Stakeholder Views - Industry Perspective

Dr Sheila WisemanUnilever, The Netherlands

Biography

Dr Sheila Wiseman has worked for 20 years in various leadership roles in nutrition innovation at Unilever in areas including weight management, nutrition and cognitive development, and flavonoids and health, and she has a strong track record of publications in these areas. Dr Wiseman is currently a member of the Nutrition and Health Science leadership team and represents Unilever interests in the emerging area of sustainable diets and in the SUSFANS project. Dr Wiseman also represents Unilever in the ILSI Europe Functional Foods Task Force.









Stakeholder Views - NGO Perspective

Ms Jane Wallace-Jones
World Wide Fund for Nature, United Kingdom

Biography

Ms Jane Wallace-Jones is a project manager, bid writer and policy researcher in the environmental field. She has worked in the Food and Fresh Water team for WWF-UK since 2013, principally managing an EU-funded project aimed at promoting healthy sustainable diets. Before working for WWF, she worked in the European Policies department of the City of Venice, where she supported developing policies, bid writing and project management in the fields of sustainable mobility, energy and nature conservation. She has also worked on voluntary environmental



policy instruments at the Veneto Region Environment Agency and at the Fondazione Eni Enrico Mattei in Venice.







Introduction to SUSFANS Conceptual Framework and Sustainability Metrics

Dr Monika Zurek

University of Oxford, United Kingdom

SUSFANS is based and focused on models. First, it will develop a conceptual model of the food system and its stakeholders. We will map how world views and visions for sustainable FNS differ across and among actors, influencers and policy-makers. The impact of a variety of drivers of sustainable FNS will be examined, for example consumer choice and its many determinants (from culture to prices), quality standards and footprints in the supply chain, and the innovation potential in primary food production. Second, we aim to contribute evidence to the debate on a vision for sustainable FNS by identifying a balanced set of suitable metrics on FNS and sustainability. The set will cover the domains of public health and nutrition, environmental protection and resource use efficiency, and economic performance. Metrics will be selected and tested with input (and possibly data) from stakeholders to ensure their wide-ranging 'world views' are encompassed. Third, SUSFANS will develop a coherent toolbox that will integrate two complementary strands of state-of-theart quantitative analysis of the EU food system: (i) individual-level modelling of nutrient intakes, habitual dietary patterns and preferences of individual consumers. The source for this analysis will be nutrition surveillance data in four Member States (CZ, DK, FR, IT), supplemented with market and experimental information on consumer choice. (ii) systemlevel modelling of food demand and supply in the context of economic, environmental and demographic changes at scales ranging from the global through Member States to regions. The data covers the European and global markets and food chains, in combination with the human capital and natural resource base. Data and models will be integrated into a comprehensive set of tools that can assess the implications of current diets on sustainable FNS in the EU.

Biography

Dr Monika Zurek is a senior researcher at the Environmental Change Institute at the University of Oxford and a member of the ECI Food Systems Group. For more than 15 years, she has worked on food systems, environment and development interactions in research and international organizations as well as in the consulting and the philanthropic sector. In the Horizon 2020 SUSFANS project, Dr Zurek is part of work packages 1 and 6, working both on the development of the conceptual framework for food and



nutrition security (FNS) and on stakeholder engagement and scenario use on the future of FNS in the EU. Prior to joining ECI, she worked with Climate Focus, a consulting firm focusing on climate change mitigation and land use issues. Previously, she was part of the Agricultural Development Team of the Bill & Melinda Gates Foundation managing grants to improve the environmental sustainability of agricultural systems. Dr Zurek also served as an economist at the Food and Agriculture Organization (FAO) and supported the Scenarios Working Group of the Millennium Ecosystem Assessment. She started her career as a researcher at the International Maize and Wheat Improvement Center (CIMMYT), working on







agricultural sustainability projects in Costa Rica and Mexico. She was also a lead author for various environmental assessments assessments, such as the Intergovernmental Panel on Climate Change (IPCC), the Millennium Ecosystem Assessment and the International Assessment of Agricultural Knowledge, Science and Technology for Development (IAASTD).

Dr Zurek holds degrees from the University of Hohenheim (MSc equivalent/Diploma in Agricultural Biology) and Justus-Liebig-University Giessen, Germany (PhD in Agricultural Economics).







Introduction to Case Studies and Explorative Scenarios

Dr Joost Vervoort

University of Oxford, United Kingdom

What options does the EU agricultural and food-sector (including fisheries and aquaculture) have to improve diets in the near future (up to 5 years) and in the long run (one or more decades ahead)? Case studies are essential to finding out which innovative sustainability pathways can contribute to developing scenarios and policies for future FNS in the EU. SUSFANS will therefore conduct case studies on innovations. One case study will address the supply chain of livestock and fish (from a producer's perspective). Another study examines the supply chain of fruit and vegetables (taking a consumer's perspective). Stakeholders will be invited to inform the rationale for case study selection, to discuss opportunities for out- and upscaling of key results, and to collaborate in using the SUSFANS toolbox for analysing the impact of innovations. Transformation in the food system takes time. The tools will also support foresight by working with exploratory scenarios to analyse policy options for sustainable FNS in the future. Drawing on existing scenario sets to create a set of diverse future contexts for FNS, SUSFANS will identify, together with its stakeholders, interventions by policymakers, the private sector and civil society. The interventions include the development of policy and innovation strategies in consumption, the food chain and primary production. These interventions will be tested in the context of the pre-existing explorative scenarios. They are translated into semi-quantitative parameters, quantified with the SUSFANS model toolbox, and subsequently run and analysed, and reviewed by stakeholders.

Biography

Dr Joost Vervoort is a researcher at the University of Oxford's Environmental Change Institute, and a member of the ECI Food Systems Group. Over the past ten years, he has worked on diverse approaches for planning and exploring futures around complex systems, particularly focusing on agriculture, food security, climate adaptation and environments. In the H2020 SUSFANS program, Dr Vervoort is part of work package 6, which focuses on stakeholder engagement and scenario



review and use. He is leading the scenarios' work package in the EU FP7 project TRANSMANGO, which focuses on the development of scenarios and transition pathways for food and nutrition security in Europe acts as a sister program to SUSFANS, focusing more on local food practices throughout the continent. For the last four years, Dr Vervoort has also led a multi-region scenarios project for the Climate Change, Agriculture and Food Security program of the Consultative Group for International Agricultural Research, where scenarios have been used effectively to guide policies throughout South and Southeast Asia, East and West Africa, the Andes, Central America and the Pacific. An ecologist by training, Dr Vervoort holds a PhD in Production Ecology and Resource Conservation from Wageningen University (2007-2011). He specialises in science communication and stakeholder engagement through scenarios and other approaches to making sense of and navigating through complex systems.









Workshop Participants









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List of Participants

Mr Thom Achterbosch

SUSFANS Coordinator Wageningen University NL – The Hague

Prof. Diána Bánáti

Executive and Scientific Director International Life Sciences Institute, Europe (ILSI Europe) BE – Brussels

Ms Victoria Bignet

Head Coordinator EAT Science & Competence / Advisory Board Stockholm University Resilience Centre SE – Stockholm

Dr Giuseppe Luca Capodieci

Food Policy Advisor European Livestock and Meat Trades Union (UECBV) BE – Brussels

Dr Karen Cooper

Sustainable Nutrition Expert Nestlé CH – Vevey

Mr Julian Cottee

Co-funder Good Food Oxford UK – Oxford

Mr Laurent Croguennec

Director Genral
Ecocert Environement
FR – Paris

Dr Marie De Lattre-Gasquet

Senior Foresight Scientist
Agricultural Research for Development
(CIRAD) and Consultative Group for
International Agricultural Research
(CGIAR)
FR – Paris

Dr Koen Dillen

Economic Analyst
Directorate General, Agriculture and Rural
Development
European Commission
BE – Brussels

Ms Eleonora Dupouy

Food Safety and Consumer Protection Officer FAO Regional Office for Europe and Central Asia HU – Budapest

Dr Pierre Dussort

Scientific Project Manager International Life Sciences Institute, Europe (ILSI Europe) BE – Brussels

Dr Derek Eaton

Vice President Research Global Footprint Network CH – Geneva

Dr Karen Fabbri

Policy Officer, Task Force on Food and Nutrition Security Directorate General, Research and Innovation European Commission BE – Brussels







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Dr Rebeca Fernández

Manager, Food Policy, Science and R&D FoodDrinkEurope
BE – Brussels

Dr Emile Frison

Former Director General Bioversity International IT – Orvieto

Ms Maria Garrone

Researcher Centre for European Policy Studies (CEPS) BE – Brussels

Dr Marianne Geleijnse

Senior Research Scientist Wageningen University NL – Wageningen

Dr John Ingram

Food Systems Programme Leader Environmental Change Institute University of Oxford UK – Oxford

Ms Kata Kerekes

Food Safety and Nutrition Junior Technical Officer FAO Regional Office for Europe and Central Asia HU – Budapest

Dr Susanne Kettler

Director for Europe, ME and Africa Scientific and Regulatory Affairs The Coca-Cola Company BE – Brussels

Ms Ruth Marquet

Conference Manager International Life Sciences Institute, Europe (ILSI Europe) BE – Brussels

Ms Agnès Martin

Director, Global Nutrition & Health Policy Danone Nutricia Research FR – Palaiseau Cedex

Dr Nina McGrath

Food Safety and Risk Communication Manager European Food Information Council (EUFIC) BE – Brussels

Ms Lorenza Mistura

Researcher
National Research Institute for Food and
Feed (INRAN)
IT – Rome

Prof. Jiří Ruprich

Head Center for Health, Nutrition and Food National Institute of Public Health (SZÚ) CZ – Brno

Dr Josef Schmidhuber

Deputy Director Statistics Food and Agriculture Organization of the United Nations (FAO) IT – Rome

Dr Louis-George Soler

Head of the unit ALISS
French National Institute for Agricultural
Research (INRA)
FR – Ivry-sur-Seine

Dr Jan Steijns

Corporate Nutrition Scientist FrieslandCampina NL – Amersfoort

Dr Liesbeth Temme

Senior Researcher
National Institute for Public Health and the
Environment (RIVM)
NL – Bilthoven







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Prof. Inge Tetens

Professor Risk and Benefit Assessment DTU National Food Institute DK – Søborg

Dr Hugo Valin

Research Scholar International Institute for Applied Systems Analysis (IIASA) AT – Laxenburg

Dr Marijn van der Velde

Senior Scientific officer Joint Research Center European Commission IT – Ispra

Ms Daphne Van Doorn

Policy Advisor European Fresh Produce Association BE – Brussels

Dr Hans van Meijl

SUSFANS Coordinator Wageningen University NL – The Hague

Ms Hannah Van Zanten

Researcher
Wageningen University
Animal Production Systems group
NL – Oosterbeek

Dr Joost Vervoort

Senior Researcher Environmental Change Institute University of Oxford UK – Oxford

Dr Stéphane Vidry

Senior Scientific Programme Coordinator International Life Sciences Institute, Europe (ILSI Europe) BE – Brussels

Ms Jane Wallace-Jones

Livewell for LIFE responsible exits Manager World Wide Fund for Nature (WWF) UK – Woking

Ms Alison Watson

Consultant
United Nations Environment Programme
(UNEP)
FR – Chevreuse

Dr Sheila A. Wiseman

Research Manager Nutrition and Health Unilever NL – Vlaardingen

Mr Lukasz Wozniacki

European Crop Protection Association Food & Legal Affairs Manager BE – Brussels

Dr Friederike Ziegler

Senior Scientist SP Technical Research Institute of Sweden SE – Borås

Ms Rosita Zilli

Deputy Secretary General Consumer Co-operatives EuroCoop BE – Brussels

Dr Monika Zurek

Senior Researcher Environmental Change Institute University of Oxford UK – Oxford









SUSFANS Consortium







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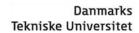
































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For more information on the SUSFANS Workshop

Dr Pierre Dussort
Scientific Project Manager
ILSI Europe
83 Avenue E. Mounier, bte 6
BE – 1200 Brussels

Email: pdussort@ilsieurope.be

www.ilsi.eu



For more information on the SUSFANS Project

Mr Thom Achterbosch
Project Coordinator
International Policy Department
Agricultural Economics Research Institute LEI
Wageningen University and Research Centre

NL – 2585 DB The Hague

Email: thom.achterbosch@wur.nl

www.susfans.org



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