



Scientific Group for the UN Food Systems Summit (2021)

9th Scientific Group meeting, July 20th, 2021

Agenda, Progress, and Plans



Agenda and timing

Agenda

- 14.00 – 14:20 **1. Follow up to Science Days**
- 14:20 – 14:40 **2. update on Pre-Summit (related to science)**
- 14:40 – 15:00 **3. Scientific Group's strategic paper**
- 15:00 – 15:30 **4. emerging agenda of Summit and of follow up to Summit**
- 15:30 – 16:00 **5. any other business**

Agenda and timing

14:00 – 14:20 1) **The Science Days** – follow up

Organized by the Scientific Group of the



Facilitated and Hosted by



Food and Agriculture
Organization of the
United Nations

UN FOOD SYSTEMS SUMMIT 2021

Science Days

08 - 09 JULY 2021

Side Events

05 - 07 JULY 2021

sc-fss2021.org | [#ScienceDays](https://twitter.com/ScienceDays) | [#FoodSystems](https://twitter.com/FoodSystems)

UNLOCKING THE POTENTIAL OF SCIENCE, TECHNOLOGY AND INNOVATION FOR FOOD SYSTEMS TRANSFORMATION

#1 CONTRIBUTION OF STI TO FOOD SYSTEMS + INTERNATIONAL ORGANISATIONS

OU DONGYU
UN - FAO

WE ARE IN A CRITICAL MOMENT

COVID-19

CLIMATE CHANGE

WE ARE FACING A FACING BARRELS TO GET THE SDG!

EFFICIENCY

STRENGTH SCIENTIST-DRIVEN INTERACT

2020 TARGET

WE PROMOTE & STEEPED UP THE ACCESS TO THE DIGITAL WORLD

BIODIVERSITY (LIFE)

HARNESS TECHNOLOGY

DATA & PARTICIPATION

CROSS CUTTING ACCELERATORS

HOLISTIC APPROACH

HARNESS SCIENCE

HARNESS INNOVATION

#2 KEY ELEMENTS TO TRANSFORM FOOD SYSTEMS

AMINA J. MUHAMMAD
UNITED NATIONS

HUMAN + PLANET HEALTH AT THE CORE

INCLUDE EXPERIENCE OF INDIGENOUS PEOPLE

WOMEN + YOUTH

BETTER POLICIES TO INVEST ON INNOVATION

INNOVATION

TECHNOLOGY

SCIENCE

#3 STI + KNOWLEDGE OF ALL ACTORS CONTRIBUTION TO FOOD SYSTEMS + ROLE OF SCIENCE ON FSS

AGNES KALIBATA
UN SG'S ENVOY

FOOD SYSTEM DEPENDS ON NATURE

PEOPLE DO NOT TRUST IN FOOD SYSTEM

WE HAVE A RESPONSIBILITY TO SHIFT THIS BY SCIENCE BASED

PUT POLICY MAKERS + SCIENTIST SHARE KNOWLEDGE

CALL FOR ACTION

HOW?

BY PUTTING PEOPLE TOGETHER

SCIENTIST

POLICY MAKERS

COMMUNITIES

#4 INTRODUCTION TO THE STRATEGIC PAPER FROM THE SCIENTIFIC GROUP

FORCHIM VON BRAUN
SCIENTIFIC GROUP UN

WE SHOULD PROMOTE CROSS-SECTORS DIALOGUE!

SET OF INNOVATION + AVAILABILITY + AFFORDABILITY + HEALTHY DIET

SET OF INNOVATION + BIO SCIENCE INNOVATION FOR IMPROVE PEOPLE'S HEALTH + CHANGE PRODUCTIVITY

SET OF INNOVATION + OVERCOMING UNEMPLOYMENT, LAND CREDIT + LABOUR ARRANGEMENT

SET OF INNOVATION + SUSTAINABLE FIBRE + AGRICULTURE + RURAL AREA

INTEGRATED APPROACH

4% GDP ON FOOD SYSTEM INNOVATION

REALLOCATE BUDGET TO SUSTAINABLE FOOD

FARMERS' ORG.

SCIENTIST

INDIGENOUS ORG.

RESPECT

SCIENCE BASED

LOCAL GOVERNMENT SHOULD BE ENGAGED

HOW SCIENCE HAS INFORMED ON GOVERNANCE LIVE?



UN FOOD SYSTEMS SUMMIT 2021: SCIENCE DAYS | 08-09 July 2021



WHY THE FIGHT? GETTING TO GRIPS WITH MISSED OPPORTUNITIES AND CONTENTIOUS ISSUES IN SCIENCE + INNOVATION FOR FOOD SYSTEMS



UN FOOD SYSTEMS SUMMIT 2021: SCIENCE DAYS | 08-09 July 2021



ACHIEVING THE 2030 GOALS: OPPORTUNITIES, TRADE-OFFS, OBSTACLES + SYNERGIES

1 **TRADING SYSTEMS AND FOOD SYSTEMS TRANSFORMATION**

THOMAS HERTZL
PURDUE UNIVERSITY

ACCESS TO WATER
ACCESS TO NUTRITIONAL FOOD
ENVIRONMENTAL NEEDS
SOCIO-ECONOMIC NEEDS
FACILITY

SDG 2 IS SYNERGISTIC WITH OTHER SDG

2 ZERO HUNGER

SOLUTION
PRODUCTIVITY GROWTH + HEALTHY DIETS CAN MITIGATE ENVIRONMENTAL IMPACTS

DEVELOPMENT NEEDS
MORE + BETTER FOOD NEEDED
MORE LAND + WATER

INNOVATION INVESTMENT NEEDED

WHAT'S THE ROLE OF TRADE IN THE FUTURE?

TRADE WILL BE MORE IMPORTANT IN THE FUTURE TO ADDRESS SHORTAGES (FOR EX.)

SHORTENING VALUE CHAIN IS NOT ENOUGH

2 **ACTIONS TO REACH GLOBALLY FOOD + NUTRITION SECURITY TARGETS BY 2030**

ELISABETH MHANDWIRE
FINET AFRICA

FINET-AFRICA SOLUTIONS

#1 ACTION TO TAKE
COMMUNITY LEADERS PARTICIPATION ON DATA COLLECTION + REPORTING MECHANISMS

PROMOTE THE AGENCY OF COMMUNITIES THEY KNOW "HOW TO!"

#2 ACTION TO TAKE
MULTISTAKE HOLDER PARTNERSHIP
EMPOWER COMMUNITIES TO BE PART OF R+I+ POLICIES

INVEST

WHAT CAN WE GET FROM FINET TO FEED WIDER POLICIES?

HEALTH NUTRITION DEPT. BASED THE DECISIONS ON THE STAKEHOLDERS DIALOGUES

3 **THE ROLE OF RESEARCH + INNOVATION ON ACHIEVING FOOD SYSTEMS AMBITION**

JEAN ENRIK PABUET
DG RESEARCH

CHALLENGES

- HOW TO ACHIEVE AN HOLISTIC APPROACH?
- HOW TO COMMUNICATE INNOVATION WITH CITIZENS?
- HOW TO REGULATE TO AVOID EXCLUSION?

LET'S BUILD FORWARD BETTER TO RETURN

CONNECT ACTIONS IN SOCIETY WITH RESEARCH
JOB PROTECTION
EU HORIZON 2020

MAKE DECISION WITH CITIZEN

IT'S A CONSTRAINT BUT MAKES INNOVATORS SMARTER SO THEY CAN DEVELOP BETTER

4 **EXPECTATIONS OF AFRICA / THE AU FROM THE FOOD SECURITY SYSTEM**

JOSEFA SACKO
AFRICAN UNION

DEVELOP AN AFRICAN COMMON POSITION

WE ARE PRETTY CLOSE

ESTIMATE THE INTER-AFRICAN TRADE IS KEY

POLICIES NEEDED

- BUILD INFRA-STRUCTURE
- PROVIDE SOLUTIONS FOR SMALL SCALE FARMERS
- BUILD HUMAN CAPITAL
- WOMEN ACCESS TO LAND + INNOVATION

FOR AFRICA IS KEY FOR INNOVATION



UN FOOD SYSTEMS SUMMIT 2021: SCIENCE DAYS | 08-09 July 2021



LOOKING AHEAD: STRATEGIC FOOD SYSTEMS SCIENCE BEYOND 2030

SUSTAINABILITY CHALLENGES FACING THE GLOBAL SYSTEM

LOUISE FRESCO
WAGENINGEN UNI

IT'S CRUCIAL TO INCLUDE EVERYONE TO BE PART OF THE RESEARCHING INNOVATION

GOVERNMENT

PEASANT FARMERS

THE GOLDEN TRIANGLE

LET'S MAKE NO-REGRET POLICIES

TO MAKE THE TRIANGLE

ROLE OF RESEARCH AND DEVELOPMENT IN THE PRIVATE SECTOR

PETER BAKKER
WBCSD

WE NEED A CLEAR SCIENTIFIC BASE TO TAKE DECISIONS

WHAT'S THE COST FOR THE PRIVATE SECTOR TO TACKLE THIS TRANSFORMATION?

WE SHOULD

SCALE BASED SCIENCE SOLUTIONS

SCALE INVESTMENT ON R+I

WE NEED TO CREATE AN "IPCC" FOR FOOD SYSTEM TO CREATE MOMENTUM

CONSTRAINTS TO GLOBAL FOOD SYSTEMS TRANSFORMATION
PRIVATE SECTOR PERSPECTIVE

JOHAN SWINNEN
IFPRI

INCLUSIVITY OF SMALL SCALE FARMERS

GOVERNMENT'S ROLE ON PRICES, SUBSIDIES

WE SHOULD RETHINK THE SUBSIDIES

BUDGET

INNOVATION + RESEARCH

PUBLIC INVESTMENT ON R+I

THE MULTISECTORAL APPROACH SHOULD BE THE DATE OF THE TRANSFORMATION

WHAT THE SUMMIT SHOULD ADDRESS?

HOW DELIVER THE OUTCOME? TO A NATIONAL LEVEL?

PRIORITIES OF STI IN INTERNATIONAL COOPERATION

ISMAHANE EDOUARDI
FAO

INNOVATION SHOULD BE FOR EVERYONE

WE SHOULD CREATE SOLUTIONS BASED ON REGIONAL CHARACTERISTICS

DIGITALIZATION COULD WIDEN THE GAP TO ACCESS TO INNOVATION

WE NEED TO CHANGE WHAT WE PRODUCE IN FOOD SYSTEMS

EXAMPLE: HANGING FRUITS CAN BE FOR HUMAN + ANIMAL FEED

TECHNOLOGIES ARE CHEAPER NOW + MORE ACCESSIBLE

HOW TO CONVINCE COUNTRIES TO INVEST MORE?

CHALLENGES

MAKE ALL FOOD SYSTEMS EFFICIENT?

PRECISION TECHNIQUES ARE BEGGINING A MEGA TREND TOOKLE

THIS

MAKE FOOD AFFORDABLE + SAFE + NUTRITIOUS



UN FOOD SYSTEMS SUMMIT 2021: SCIENCE DAYS | 08-09 July 2021



Science Day follow up

1. Reporting on the 17 sessions of Science Day
2. Reporting on the about 40 Side Events
3. A synthesis report on Science Day in preparation.
4. Taking note of propositions and science & innovation agenda for the FSS and beyond
5. An assessment of Science Day by ScGroup

Agenda and timing

Agenda

14:20 – 14:40 **2. update on Pre-Summit (related to science)**

<https://www.un.org/en/food-systems-summit/pre-summit>

DAY 1

Opening Plenary – A Bold Ambition to Improve Food Systems

- Morning Parallel Sessions
 - o End Hunger and Nourish All People
 - o The Triple Challenge of Meeting Food, Climate and Biodiversity Goals
 - o Science and Innovation for Food Systems Serving People and Planet**
 - o Ministerial Statements (Virtual Only)
- Lunch and Affiliated Sessions
- Pre-Summit Official Ceremony – Rising Up to the Future We Want
- Afternoon Parallel Sessions:
 - o Post-Opening Ceremony Talk Show - Financing Food Systems for 2030
 - o Transforming Food Systems Together-Youth Actions for our Present and Future
 - o The Voice of Farmers, Fishers, Pastoralists, and other Producers toward the Food Systems of the Future
 - o Multilateral Policy Convergence for Food Systems Transformation; CFS and its Voluntary Guidelines on Food Systems and Nutrition (Virtual Only)
 - o Demand, Innovate and Scale: Partnership and Research to Deliver the 2030 Agenda (Virtual Only)
 - o Ministerial Statements (Virtual Only)
- Affiliated Sessions

12:00 – 13:30 Science and Innovation for Food Systems Serving People and Planet

Venue: Plenary room The session presents the science, including social sciences and natural sciences for food systems transformation that can make the work of the UN Food Systems Summit a success. Advanced and emerging sciences as well as traditional knowledge are considered. We scrutinize propositions, draw attention to conflicting agendas, and seek synergies based on the best peer-reviewed science and quantitative model findings.

Co-Moderators:

- Prof. Joachim von Braun, Chair, Food Systems Summit Scientific Group
- Ms. Magdalena Skipper, Editor In Chief, Nature

Block 1: Bio-Science, Digital Sciences and Agronomy Innovations

- Prof. Louise O. Fresco, Vice Chair of the Food Systems Summit Scientific Group, President of the Executive Board, Wageningen University & Research
- Prof. Elizabeth Hodson de Jaramillo, Professor Emeritus School of Sciences of the Pontificia Universidad Javeriana, and member of Inter American Network of Academies of Sciences (IANAS)
- Dr. Lee Recht, Head of Sustainability, Aleph Farms
- H.E. Sergey V. Vershinin, Deputy Minister of Foreign Affairs, Russian Federation
- Dr. Manuel Otero, Director-General, Inter-American Institute for Cooperation on Agriculture (IICA)

Block 2: Science Serving End Hunger and Safe and Nutritious Food for All

- Dr. Kaosar Afsana, Vice Chair of the Food Systems Summit Scientific Group, Professor Public Health, BRAC University
- Dr. Claudia Sadoff, Managing Director, Research Delivery and Impact of the CGIAR System Organization (CGIAR)
- Ms. Marije Beens, Vice Minister of Agriculture, Nature and Food Quality, Netherlands
- Dr. Godfrey Bahigwa, Director, Department of Rural Economy and Agriculture, African Union Commission
- Ms. Polina Shulbaeva, Coordinator for IIFB, CBD process

Block 3: Science and Institutional Innovations for Food Systems Sustainability

- Prof. Mohamed Hassan, Vice Chair of the Food Systems Summit Scientific Group, President of The World Academy of Sciences for the advancement of science in developing countries (TWAS)
- Prof. Thomas W. Hertel, Professor of Agricultural Economics at Purdue University and Executive Director of the Global Trade Analysis Project (GTAP)
- H.E. Minister, France
- Ms. Geraldine Matchett, Co-CEO and CFO, Royal DSM
- Ms. Su Kahumbu Stephanou, Founder and CEO, iCow

Agenda and timing

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14:40 – 15:00 **3. Scientific Group's strategic paper**

*“Science for Transformation of Food Systems Change:
Opportunities for the UN Food Systems Summit”*

Edited following Science Day and comments

- More inclusive (knowledge in traditional systems, actors, Indigenous Peoples, ...)
- Simplified language
- Consideration of FS governance

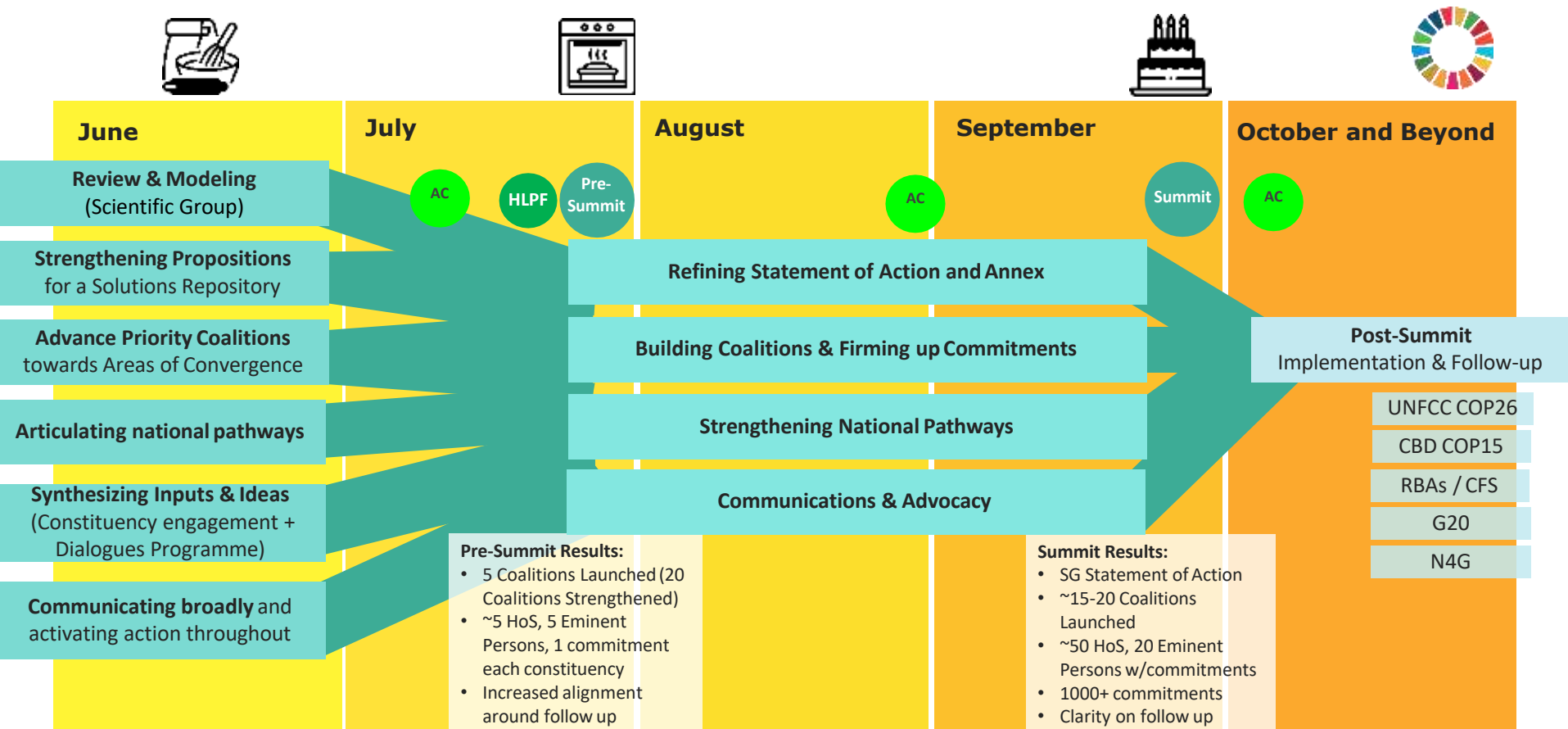
*Will be shared with ScG members next few days again,
with the suggestion to only raise major gaps or issues*

Agenda and timing

Agenda

15:00 – 15:30 **4. emerging agenda of Summit and of follow up to Summit**

FSS Roadmap



FSS Roadmap



June

July

August

September

October and Beyond



Converging ideas



Strengthening ideas - "baking the cake"



Post-Summit Implementation & Follow-up

Pre-Summit Results:

- 5 Coalitions Launched (20 Coalitions Strengthened)
- ~5 HoS, 5 Eminent Persons, 1 commitment each constituency
- Increased alignment around follow up

Summit Results:

- SG Statement of Action
- ~15-20 Coalitions Launched
- ~50 HoS, 20 Eminent Persons w/commitments
- 1000+ commitments
- Clarity on follow up

Call to Action: Transforming our Food Systems to achieve the SDGs

- Call on Member States and all stakeholders to keep their promise and reinvigorate all efforts to realize the complete vision of the 2030 Agenda. We need to address the root causes and structural imbalances to make food systems a positive driver of all 17 SDGs
- Affirm that this process reflects an agreement that while approaches and perspectives may differ, food systems can and must transform if we are to realize the SDGs. Many approaches can support this effort, including agroecology and other innovative approaches.
- Emphasize the urgency of moving beyond incremental action and the importance of a systems approach, connecting horizontally and vertically all levels of governance, bringing together stakeholders from all walks of society, recognizing that our sustainable development objectives are indivisible and interlinked, while reiterating the essential principle that action is based on sound science.
- Emphasize the importance of basing food system decision making on the best available science as well as traditional and indigenous knowledge.
- Welcome effort by the more than 140 Member States that undertook national Dialogues, recognizing that while food systems differ across locations, they are universally relevant to SDG achievement. Further pledge to support those countries that develop national pathways to 2030, and call on the UN system and all relevant stakeholders to support these countries in implementation.
- Welcome the efforts to develop coalitions for action that support Member States in their efforts to achieve the SDGs through food system transformations. Reference to specific coalitions could be inserted
- Will speak to other potential follow-up efforts.

Early Ideas on FSS Follow-up:

Option A: A light support structure for one year following the Summit

Option B: Coordinated follow-up and implementation imbedded in existing intergovernmental processes and in the UN Reform process – RBA led follow up

Option C: Focus on driving country action

Option D: Blending international momentum with country-driven action

Agenda and timing

Agenda

15:30 – 16:00 **5. any other business**

Next meetings ... tbc

August 17th , September 14th ,
October 5th , November 16th