



8th Meeting of G20 Agricultural Chief Scientists

(25th April 2019, Tokyo, Japan)



Revisiting MACS 2018 and Follow-up Overview

Agriculture, Forestry and Fisheries Research Council Secretariat (AFFRCS),
Ministry of Agriculture, Forestry and Fisheries of Japan

MAFF

Ministry of Agriculture, Forestry and Fisheries

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1. MACS-G20 2012-2017

What is “MACS”?

The Meeting of the G20 Agricultural Chief Scientists (MACS) is an initiative endorsed by G20 Leaders.

G20 Agriculture Vice Ministers in 2012 supported meetings of G20 Agricultural Chief Scientists (MACS) or high-level agricultural research officials from G20 member countries, other interested countries, and International Research Organizations such as CGIAR (Consultative Group on International Agricultural Research),

With the goal of:

- Identifying global research priorities and targets
- Facilitating collaboration between public and private sector organizations in the key areas, most likely to drive sustainable productivity gains, and
- Tracking progress on established goals over time.

1. MACS-G20 2012-2017

- 2017 : 6th MACS (Potsdam, Germany)
- 2016 : 5th MACS (Xi'an, China)
- 2015 : 4th MACS (Izmir, Turkey)
- 2014 : 3rd MACS (Brisbane, Australia)
- 2013 : 2nd MACS (Moscow, Russia)
- 2012 : 1st MACS (Guadalajara, Mexico)



2. 7th MACS in 2018, under the presidency of Argentina

7th MACS was held in San Salvador de Jujuy, Argentina from 28th to 30th May, 2018.

The Delegates discussed how to support G20 Agricultural Ministers and ways to strengthen synergy and cooperation in three scientific fields:

- Genome editing
- Sustainable soils: soil management
- Climate change: impacts and opportunities to enhance resilience as a criterion of healthy agricultural systems

2. 7th MACS in 2018, under the presidency of Argentina



G20 Argentina 2018 7th Meeting of Agricultural Chief Scientists (MACS) Communiqué

3. **We support continuing the collaborative work on the reduction of food losses and waste (FLW) conducted by Germany** in 2017. For this purpose, Argentina with the support of Germany, will host a FLW workshop in October 2018 at Buenos Aires in order to tackle identified regional FLW challenges in Latin American and Caribbean countries.

3. On –going Initiatives and Working Groups Emanating from MACS

6. Acknowledging the potential of sustainable soil management to achieve food security against the background of changing climate conditions and a growing world population, **we support the working group jointly led by France and Russia** in order to reinforce global cooperation on three initial priorities: (a) harmonized sampling, analysis and accessibility of soil related data, (b) soil organic carbon management and (c) microbial soil biodiversity. This comprises the active collaboration with existing global and national initiatives on soil matters, for example, the Global Soil Partnership (GSP).

3. On –going Initiatives and Working Groups Emanating from MACS

9. We support a working group jointly convened by United Kingdom and other partners to build on and develop the work of existing global genetic diversity initiatives through enhanced international collaboration.

3. On –going Initiatives and Working Groups Emanating from MACS

10. We support "agroecosystem living labs" (ALL) approaches that integrate the social and natural sciences and involve farmers early and throughout the co-development of practical and effective ways to build resilience, improve environmental performance and achieve sustainable intensification of agricultural production. Therefore, we recommend that G20 Agriculture Ministers support these interdisciplinary approaches which involve farmers, scientists and other interested stakeholders, in the co-design, monitoring and evaluation of new and existing agricultural practices and technologies on working landscapes to ensure their early adoption. **We also support the establishment of a working group jointly led by Canada and the United States** to advance utilization of ALL and welcome participation by G20 members.

3. On –going Initiatives and Working Groups Emanating from MACS

12. We recognize the need to follow up on the agricultural technology sharing (ATS).

4. Stocktaking in 2019

Revisiting MACS 2018 and Follow-up (25th April, 2019)

9:55-10:10 France and Russia

(1) Sustainable Soil Management

COFFEE BREAK

10:40-10:55 Canada and US

(2) Agroecosystem Living Labs

10:55-11:10 China

(3) Agricultural Technology Sharing

11:10-11:25 Germany

(4) Food Loss and Waste

11:25-12:45 Discussion

Thank you!

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