

G20 MACS

Agricultural Technology Sharing (ATS)

Working Group Progress and Workplan

**Dr. Prof. NIE Fengying, Deputy Director General
Center for International Agricultural Research of CAAS
Agricultural Information Institute of CAAS**

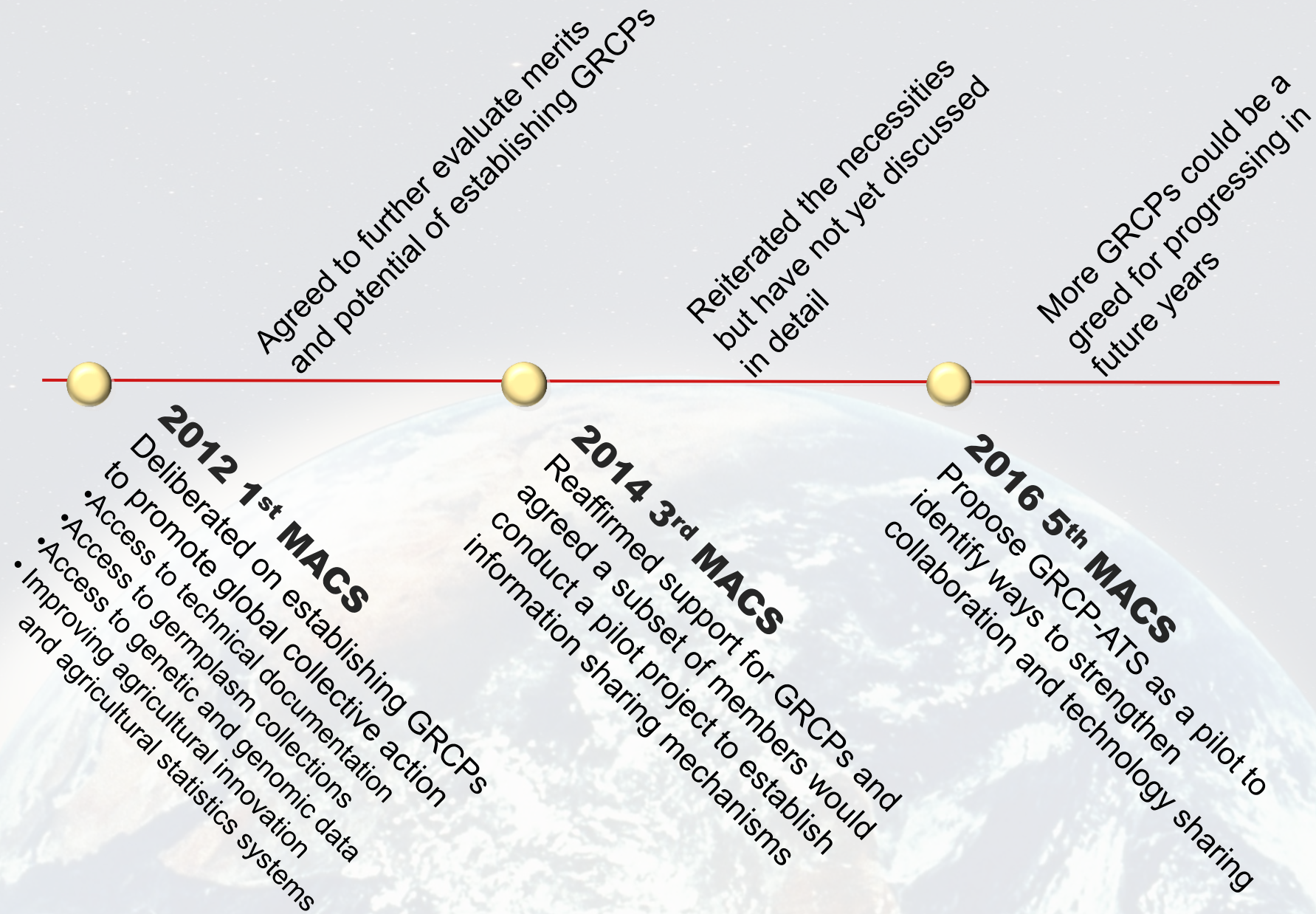
Tokyo, Japan. 25 April 2019

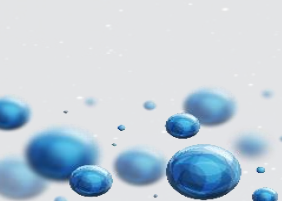


ATS

Update and Progress

Rationale





Agricultural Technology Sharing (ATS)

We need cooperation, collaboration and partnership to meet global challenges for eliminating poverty and hunger faced today such as climate change, environmental degradation, desertification and threat of spread of epidemic diseases and pests.

To serve ordinary users of these technologies, such as smallholder farmers, entrepreneurs, private sectors, we need a user friendly, integrated technology information platform to:

COLLABORATE

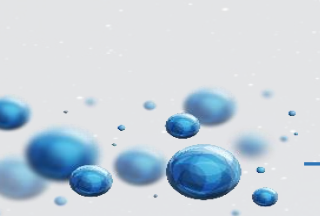
COOPERATE

EXCHANGE

SHARE

For Rapid Agricultural Innovation

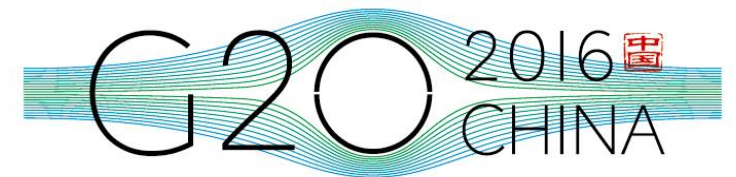
That is why we need....

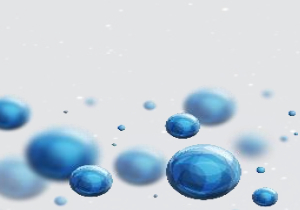


Agricultural Technology Sharing Platform

5th MACS Communiqué 2016

14. *We agree to set up a working group on Agricultural Technology Sharing (ATS) led by China to map and analyze strengths and weaknesses of existing knowledge and information sharing mechanisms as well as to develop a proposal.*





Progress-2017

1. Constitution of the Working Group

11 Member Countries, 6 International Organizations

2. Developed the Concept Paper and conducted the Needs Analysis Survey in consultation with the Working Group, Sept.-Nov. 2016

3. Presenting Interim reports to Meeting of G20 Agricultural Deputies in May 2017, Germany

4. Presentation of ATS in G20 Linked Open Data in Agriculture, Sep. 2017, Germany

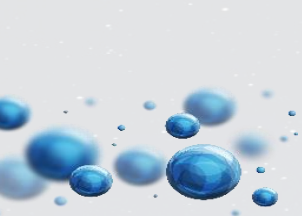
Discussion on standards of data and information sharing

5. Presentation of ATS in 6th G20 MACS, Nov. 2017, Germany

G20 Germany 2017
6th Meeting of Agricultural Chief Scientists (MACS)
Communiqué

13. We acknowledge that the Working Group on Agricultural Technology Sharing (ATS) will further elaborate on the proposal and, based on the presentation and discussions at the 6th MACS, will present a thematically focused detailed proposal for discussion.....





Progress-2018

- 6. Discussion on Working Mechanism and priority areas to focus on**
- 7. China worked on a demo to explore challenges, operational practices and standards**
- 8. Participated in 7th G20 MACS, May. 2018, Argentina**

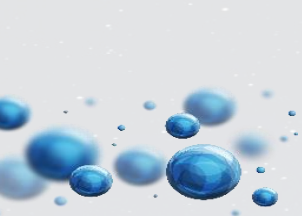




G20 Argentina 2018
7th Meeting of Agricultural Chief Scientists (MACS)
Communiqué

12. We recognize the need to follow up on the Agricultural Technology Sharing (ATS)





Progress-2018/2019

9. Identify key steps and work plan

Terms of Reference for sustainable working mechanism

Work Plan drafted with participatory approach

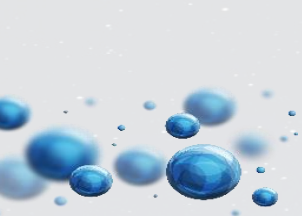
Workshop organized as planned and agreed

10. Organize the G20 MACS ATS Working Group Workshop 2018 to discuss and finalize the working mechanism and work plan

11. Circulate the ToR and Workplan of the Working Group

12. Develop ATS demo

Terms of Reference (ToR) of ATS Working Group



Procedure

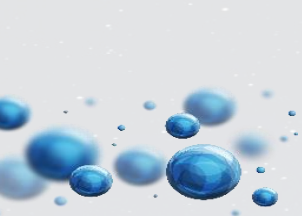
Drafted and sent to ATS Working Group on 21st Sep., 2018

Discussed during G20 MACS ATS Working Group Workshop 2018 on 27-28th Sep.2018

Sent to ATS Working Group on 5th March 2019

Finalized on 31st March 2019

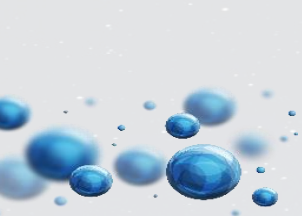




Working Mechanism

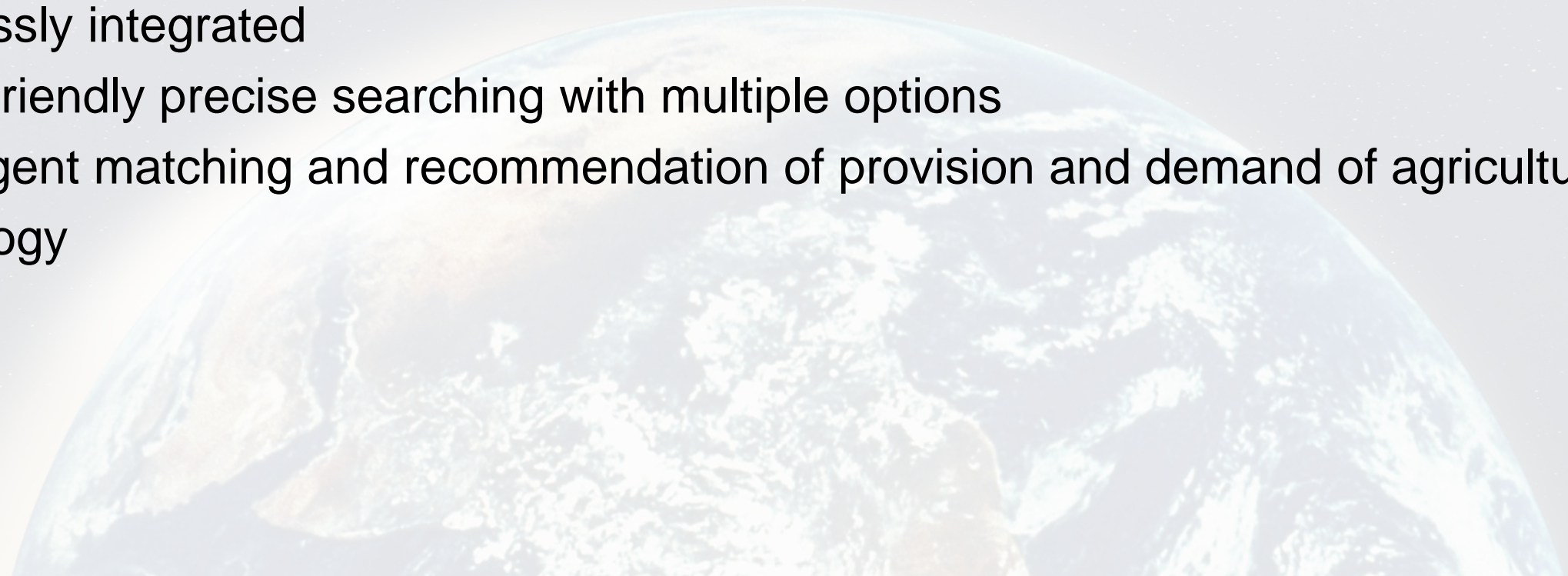
- ATS Working Group participating countries/international organizations meet annually in-person or virtually for common decisions and actions. The ATS Working Group should report the working progress to G20 MACS regularly and when required.
- The activities promoted by the ATS Working Group support and follow the principles of Global Research Collaboration Priorities (GRCPs).
- A coordination unit of the ATS Working Group is proposed to be set up in the Chinese Academy of Agricultural Sciences (CAAS).

ATS Demo



Features

- Multiple category of Users: Policy maker, Entrepreneur, Farmer, Scientists
- Multiple dimensions to demonstrate the metadata of technology
 - 8 Classifications 189 sub-classifications, 4 User categories, 6 Areas.
- Text, images, videos, differently constructed sources of information enabled to be seamlessly integrated
- User friendly precise searching with multiple options
- Intelligent matching and recommendation of provision and demand of agriculture technology





Planting(3)

Plant variety
fertilizer
pesticide
Cultivation Techniques
Plant protection

Breeding(5)

Cultured species
Animal husbandry and veterinary

Processing(3)

Agricultural machinery(2)

Resources and environment(0)

Agricultural informationization(1)

Intellectual property(1)

other(0)



Welcome to visit
Log in to access the
control panel

[log in](#) [register](#)



policy maker



entrepreneur



farmer



scientists

News

[More >>](#)

G20 MACS ATS Working Group Workshop 2018

ATS Working Group set up by 5th MACS held in China in 2016

Progress of ATS Working Group reported to 6th MACS in Germany in 2017

Sustained attention expressed to the ATS Working Group in Argentina in 2018

Demand Recommendation

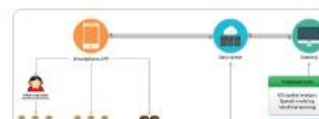
Deep Processing Technology of Passion Fruit

Intensive Seedling Raising Technology

Development Technology of Grape Juice in High Mountainous Areas

Technology and Products Recommendation

[More >>](#)





HOMEPAGE

COUNTRY AND INTERNATIONAL ORGANIZATION LIST

TECHNOLOGY AND PRODUCT INFORMATION

ALL USERS

Planting(3)

Plant variety
fertilizer
pesticide
Cultivation Techniques
Plant protection

Breeding(5)

Cultured species
Animal husbandry and veterinary

Processing(3)

Agricultural machinery(2)

Resources and environment(0)

Agricultural informationization(1)

Intellectual property(1)

other(0)



Reassortant Avian Influenza V...



Efficient and energy saving fa...



Nutrient Expert, a new fertilize...



Porcine Circovirus Type 2 Vac...



Technologies improving smart...



Crop remote sensing monitori...



Early Weaning Strategies of ca...



A cross-species high-efficiency...



"Smart Apiculture" System



A cross-species high-efficiency SNP genotyping array

Promulgator : [ATS](#)

Release time : [2019/04/02 10:00:18](#)

Keywords :

Classification : > [Planting](#) > [Plant variety](#) > [Grain](#) > [Rice](#)

☆ favorite

Related Information

Ownership Unit :

[ATS](#)

TOP ranking list

- 01 [A cross-species high-efficiency SNP genotyping array](#)
- 02 [Nutrient Expert, a new fertilizer recommendation approach](#)
- 03 [GrainCounting](#)

Technology Profile

Title: A cross-species high-efficiency SNP genotyping array

User Category: Scientists

Language: English

Country: China

Area Category: Technologies combatting Climate Change impacts on agriculture and environment, Technologies enabling sustainability and improving crop and farm productivity and incomes, Technologies preventing loss of Agricultural Biodiversity

A cross-species high-efficiency SNP genotyping array

Based on the large-scale data by sequencing and resequencing of major crops, including food crops, cotton and oil crops, vegetable crops and fruit crops, we are going to design a high density SNP array. The special and unique characters of this SNP array are listed as follows.

1. Cross-species: the array can be used to detect polymorphism for 4-6 crops simultaneously;
2. Economy: the cost is only 1/4-1/6 of current market price, acceptable price worldwide;

Technology Detail



Technology management

- Technology release
- Technology management
- Demand recommendation

Demand management

- Demand release
- Demand management
- Technology recommendation

Management

- Management

Favorites

- Favorites

Personal center

- Basic Information
- Change Password

Technology Information

Title

Please fill in the title

Technology classification

The primary classification

Keywords

Keywords1Keywords2Keywords3Keywords4

Institutions Involved in Key Area

can not be empty !

Description

upload

Please note: the word file cannot exceed 20M !

Respective Funding Projects

can not be empty !

User Category

please select

Area Category

☐ Technologies combatting Climate Change impacts on agriculture and environment

☐ Technologies improving water conservation and use

☐ Technologies enabling sustainability and improving crop and farm productivity and incomes

☐ Technologies combatting desertification, land and environmental degradation and enabling rejuvenation

☐ Technologies preventing and managing impacts and transboundary spread of plant, animal and zoonotic diseases and pests

☐ Technologies preventing loss of Agricultural Biodiversity

Tel of Organization

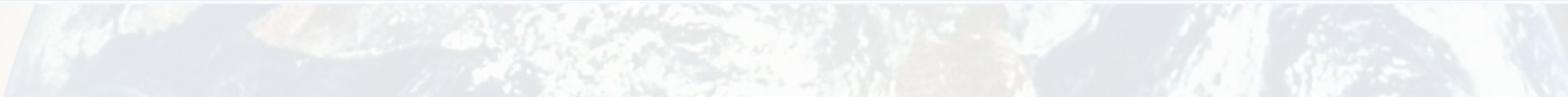
country code + Domestic area code + phone number

Email of Organization

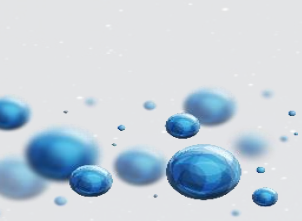
Please fill in Email

Tel of Experts

Please fill in contact details of experts

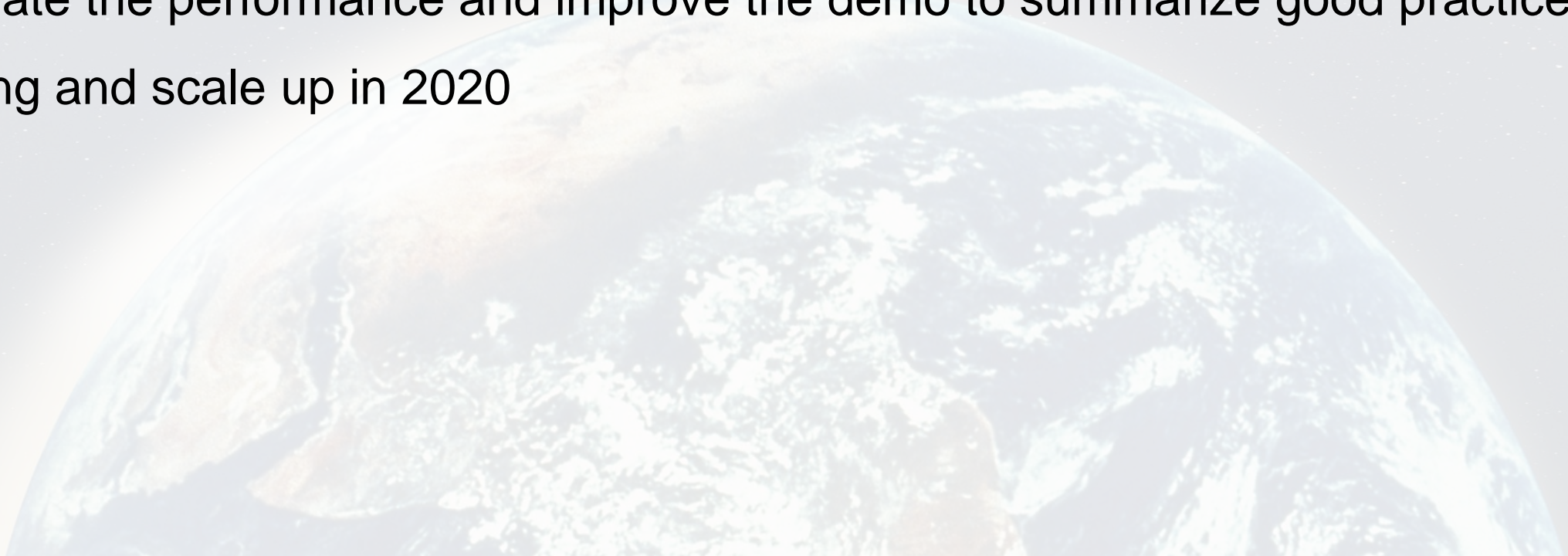


Workplan of ATS Working Group



Workplan

- Propose the discussion on standards for sharing of agricultural technology metadata in 2019
- Further improve the ATS Demo in 2019
- Evaluate the performance and improve the demo to summarize good practices for sharing and scale up in 2020





THANK YOU