

# China Agricultural Science and Technology "Going Global"

Nie Fengying



中国农业科学院

海外农业研究中心

Center for International Agricultural Research, CAAS



## Contents

01 Introduction of CIAR

---

02 Progress in International  
Agricultural Sciences and  
Technology Going Global

---

03 International Agricultural  
Information Service

---

04 Leading Organization in  
National Level

---

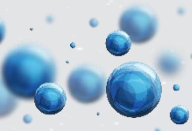




I

Introduction of  
Center for International  
Agricultural Research (CIAR)





# Introduction of Center for International Agricultural Research

## [Background]



中国农业科学院  
海外农业研究中心  
Center for International Agricultural Research, CAAS



One Belt and One Road Strategy



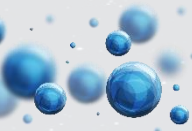
Structural adjustment of agricultural supply side



Voice on global food and agriculture management

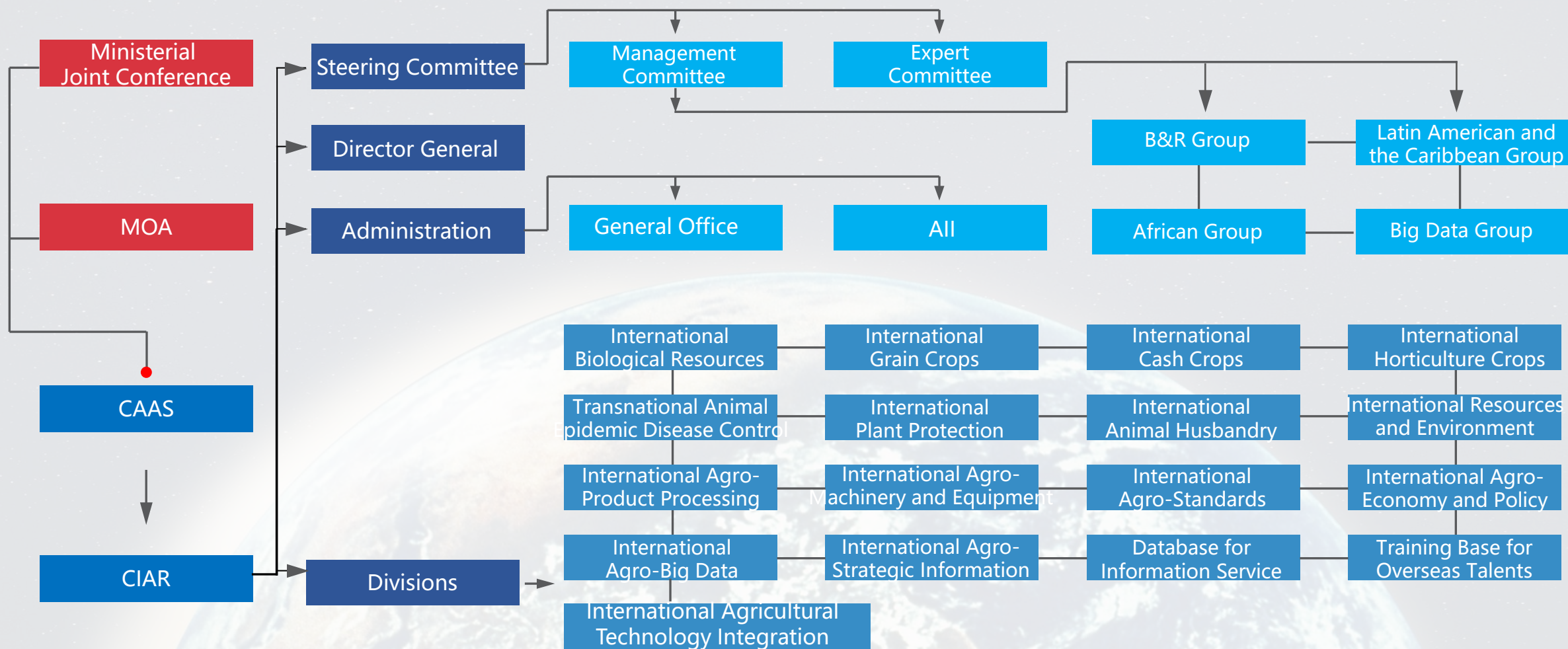
- trans-sectional cooperation and interdisciplinary research on major scientific innovation missions
- Build excellent overseas agricultural research and development team
- Promote the Chinese Agricultural S&T Going Global

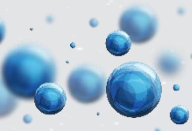




# Introduction of Center for International Agricultural Research

## [Organizational Structure]





# Introduction of Center for International Agricultural Research

## [Major Tasks]

- Organized in a cross-sector and interdisciplinary pattern in the designing of major research topics
- Positioned to jointly make technological breakthrough
- Solve major problems in agriculture.
- Create the International Agricultural Data Investigation and Analysis System
- Provide consultancy service for agribusiness in their overseas operations.

- Foreign collaboration of the national academy of agricultural sciences
- China association for the promotion of international agricultural cooperation
- Global alliance for agricultural data and information services

### International Agricultural Research

### International Agricultural Information Service

### Coordinate and organize National work



### Agricultural Science and Technology "Going Global"

- Integrate resources for international collaboration and available technology
- Promote the cross-border flows of innovation elements
- Boost the export of technological products, machinery and equipment, and service

### Human Resources Development

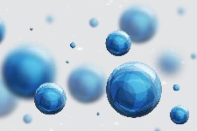
- Optimizes disciplinary programs and structures
- Build a pool of agricultural talents
- Set up a collaboration platform for agricultural professionals



A large, blue, serif Roman numeral 'II' is positioned on the left side of the slide. It is set against a light gray rectangular background that is part of a larger, faint architectural structure on the left side of the image. The background of the entire slide is a composite image showing the Earth from space, with a dark starry sky above and the blue and white clouds of the planet below.

Progress in International  
Agricultural Sciences and  
Technology Going Global

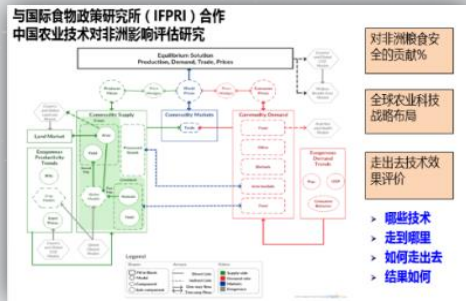




# Progress in International Agricultural Sciences and Technology Going Global

## [International Information Research]

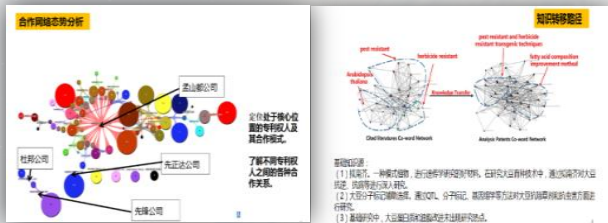
### International cooperation research



With IFPRI:

China-Africa Agri-Technology Transfer: A Study on Macro-Impact and Micro-Mechanism

### Intellectual property rights and patent research



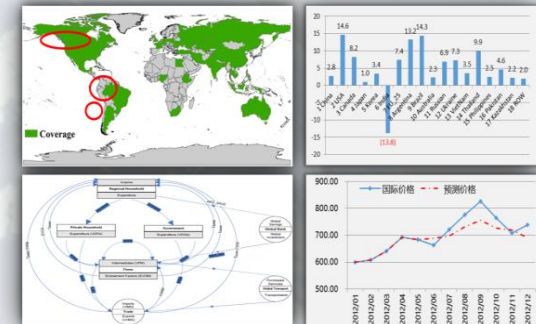
Overseas agricultural patent technology analysis diagram

### National and regional research



Agricultural cooperative research report of Belt and Road Countries

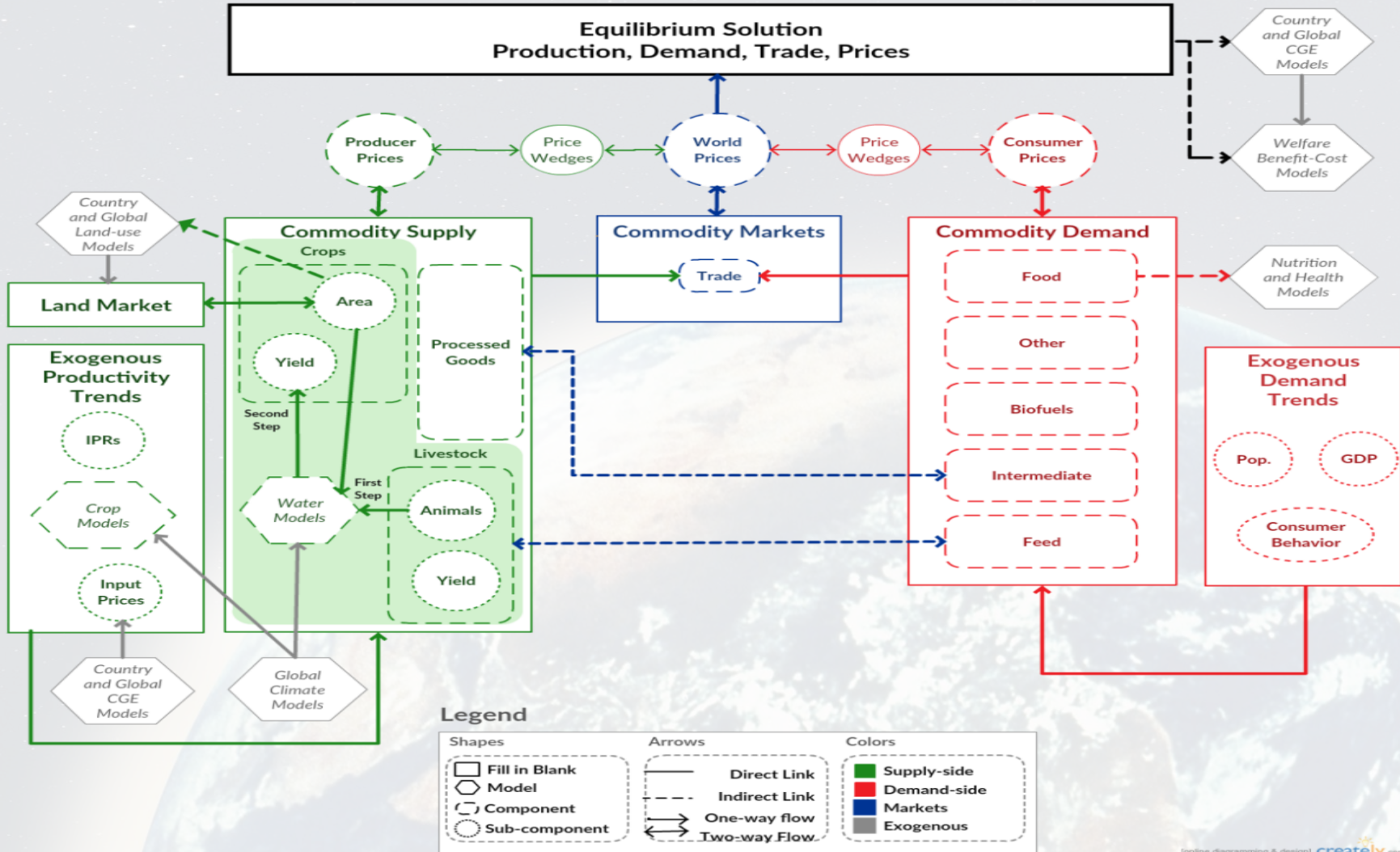
### Monitoring and simulation studies overseas



Agriculture major shocks and policy simulation model



## China-Africa Agri-Technology Transfer: A Study on Macro-Impact and Micro-Mechanism

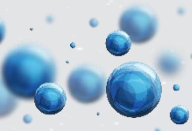


The contribution of food security in Africa

Global agricultural S&T strategy layout

Go out and technical effect evaluation

- Which technologies?
- Where to go?
- How to go out?
- What' s the outcome?



# Agricultural Science and Technology Going Global

## [General situation]

### Central and West Asia:

Release of new products of cotton, wheat, maize, technology transformation of animal and plant protection

### Africa:

Evaluation and innovation, import of the germplasm resources like rice, maize, minor grain crops

### Latin America:

Crop science, livestock science, biotechnology, Agriculture Products Processing

### Central and Eastern Europe:

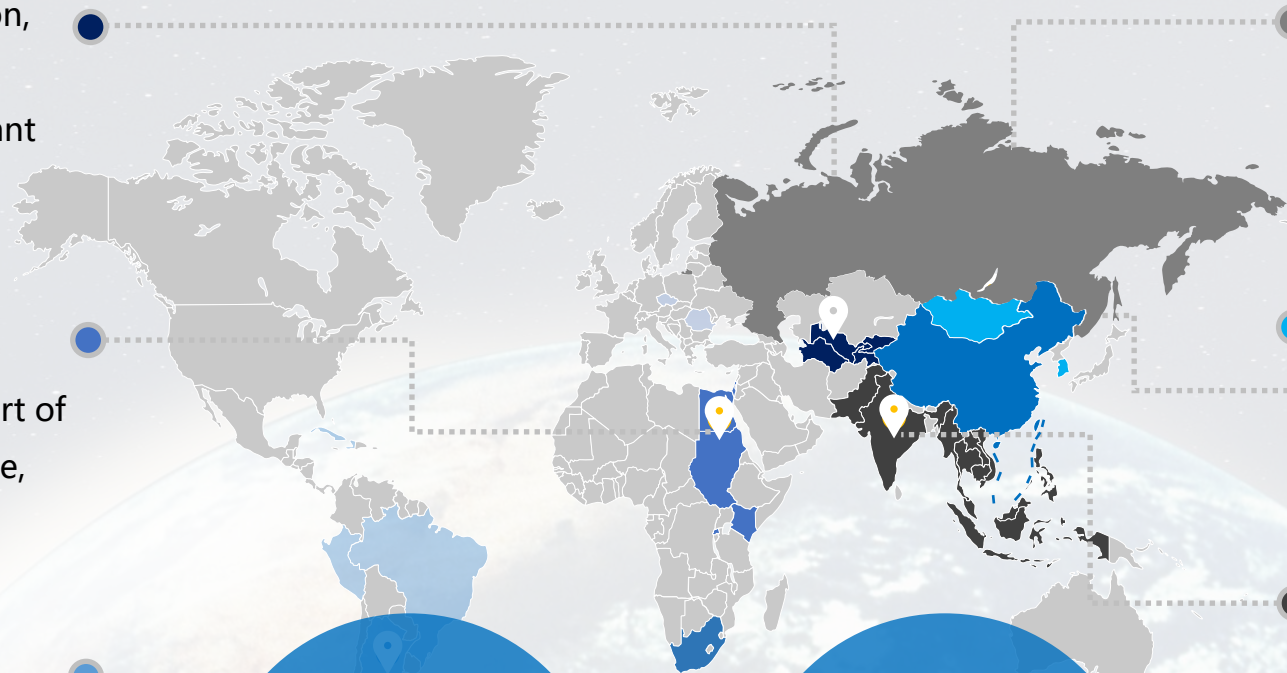
Good crops and livestock and poultry import and identification of germplasm resources, animal and plant protection, Agriculture Products Deep Processing

### Northeast Asia:

Animal and plant protection, Agriculture Products Deep Processing, agri irrigation machinery

### Southeast and South Asia:

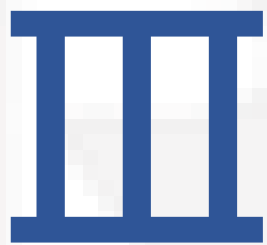
Import of the germplasm resources like rice, maize, vegetable, animal and plant protection, Agriculture Products Deep Processing, minor agri irrigation machinery



**150**  
countries

**61**  
Technologies  
and products  
Going Global

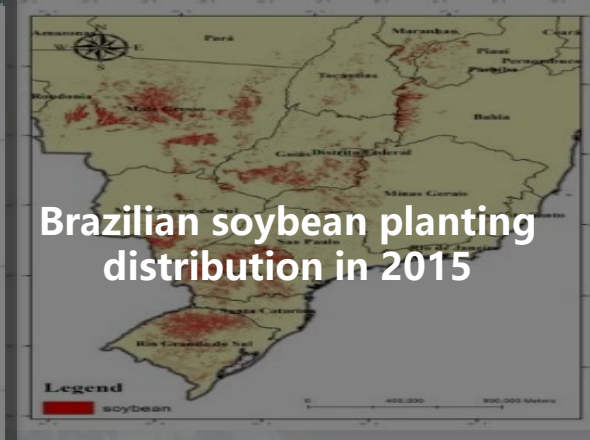
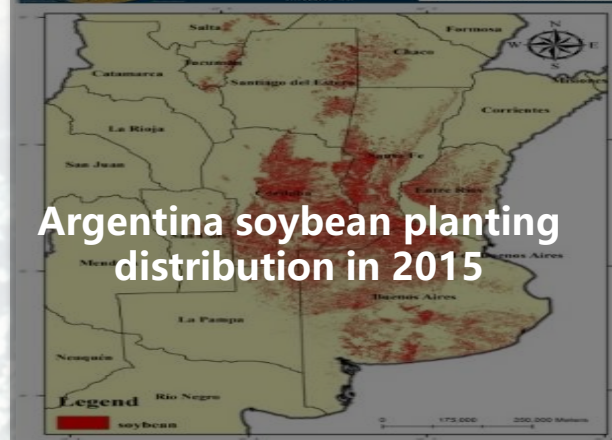
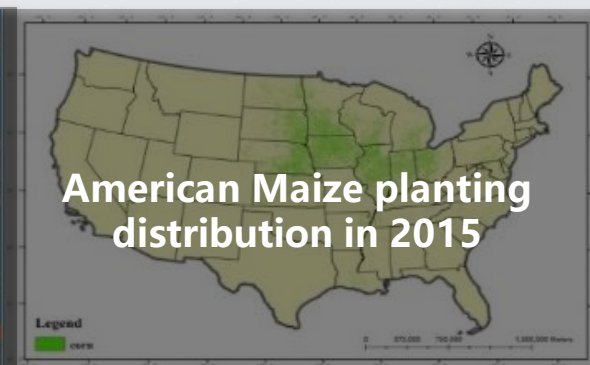
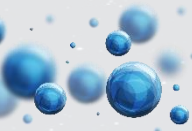




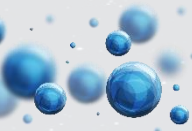
International Agricultural  
Information Service











# International Agricultural Information Service

## [Information Service Platform]

Public information service platform of agricultural co-operation with foreign countries

Multi-dimensional analysis and decision support platform of Overseas Big Data

2016.01

Website of CIAR

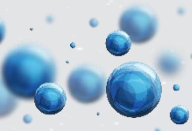
2016.06

2016.09

2017

WeChat Official Accounts





# International Agricultural Information Service

## [ Overseas agriculture think-tank products ]



### Monthly Report

- Overseas Agriculture Observation
- Agricultural Scien\_Tech Frontiers, Policy and Consultation

- Influence of Brexit for Chinese Agriculture
- Analysis and Suggestions of the fall of farmland prices in the United States

### Bulletin



### Annul Report

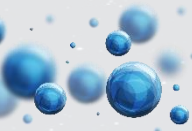


- Agricultural cooperation Plan between China and Latin-America
- Southeast Asian food cooperation development planning

### Consulting Report







# International Agricultural Information Service

[ Provide services for enterprise going global ]

- ✓ **China Development Bank, COFCO:** National agricultural cooperation strategy research, with Indonesia, Cambodia, Laos, Thailand, Cuba, Uruguay, Surinam
- ✓ **Taiwan Kangyou Co.:** Veterinary technical support
- ✓ **Jiangsu lianfa.cn.& Jingyan Seed Co.:** Boost cotton technology going global
- ✓ **Liayungang, Jiangsu:** OBOR International cooperation in agricultural industry alliance, and reach the cooperation intention **with 13 alliance enterprises**





# International Agricultural Information Service

「 Provide services for enterprise going global 」

**Sign with CAAS for Global alliance for agricultural data and information services**

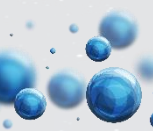


**Cooperation with CIAR**



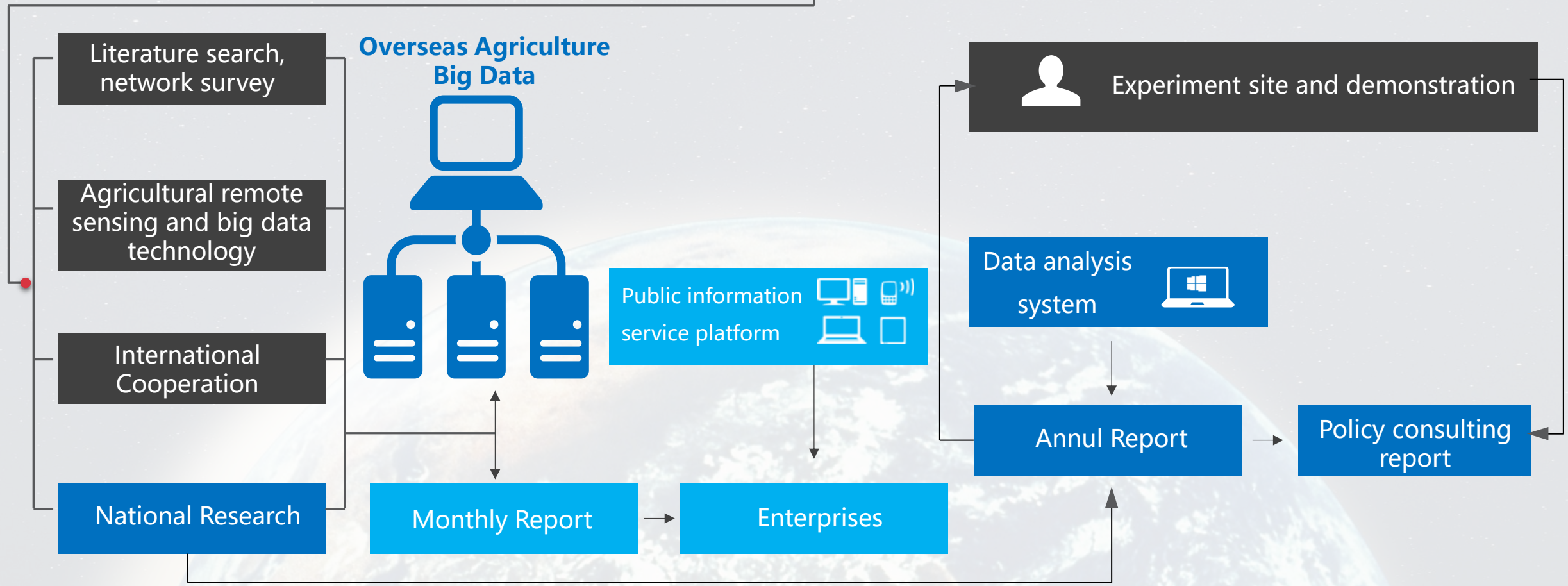
	Enterprise	content
<b>签署协议的12家企业</b>		
1	湛江华大贸易有限公司	甘蔗种植和糖料加工
2	聚龙集团	棕榈油种植加工
3	新希望六合股份有限公司欧非中心	饲料
4	四川蜀兴种业有限责任公司	水稻种子
5	四川安吉瑞科技发展有限公司	农机
6	安徽农垦农业投资开发有限公司	水稻、玉米、烟草种植
7	河南省黄泛区实业集团有限公司	种植、养殖、种子繁育、农机
8	云南农垦云橡投资有限公司	橡胶种植加工
9	希森马铃薯产业集团有限公司	马铃薯
10	獐子岛集团股份有限公司	水产品加工
11	湖南果秀食品有限公司	果蔬加工
12	雷沃重工股份有限公司	农机
<b>达成合作意向的企业</b>		
13	江西林恩茶叶有限公司	茶业
14	正邦集团	饲料
15	双胞胎集团	饲料
16	江西仙客来生物科技有限公司	食用菌生产
17	宏康农业香港公司	农产品贸易
18	江西赣粮实业有限公司	农产品物流加工、种业
19	江西省华美食品工业有限公司	粮食加工





[ Construction of global agricultural data analysis system ]

**Global agricultural monitoring data acquisition:  
focus on overseas, key varieties, and production**

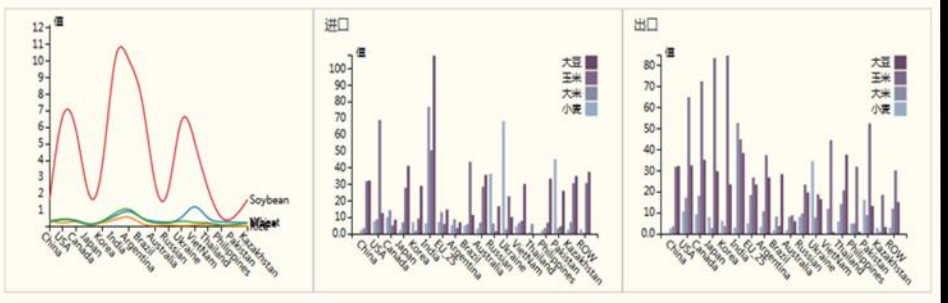


**Voice, decision, management and innovation on data**

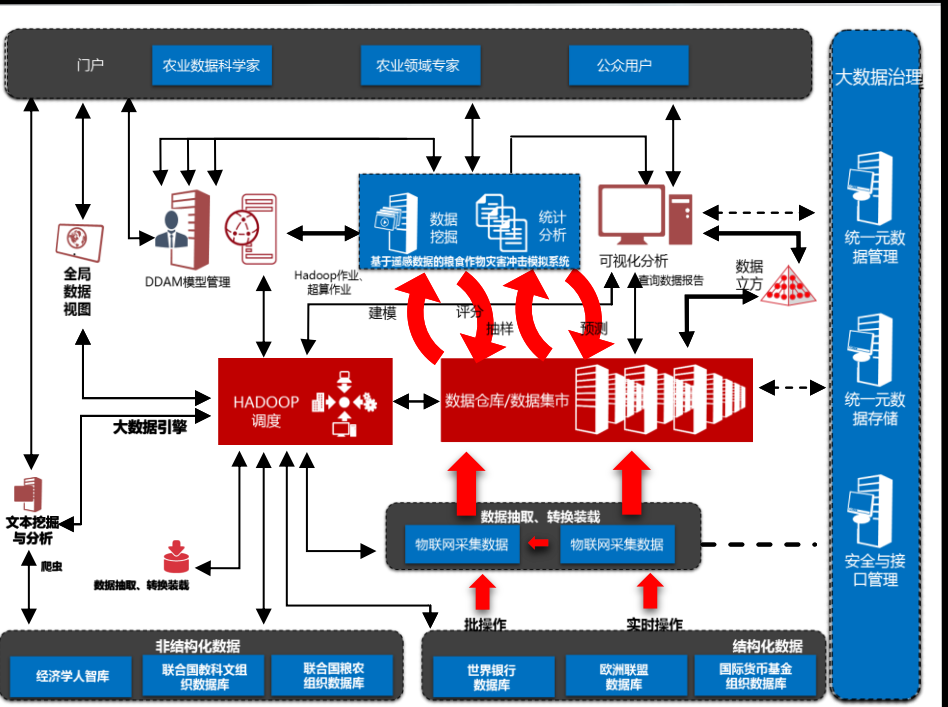




### 海外大数据多维分析与决策支撑平台

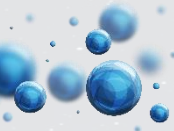


Item	2012	2013	2014	2015	2016	2017	2018	2019
Per report quantity [50]	1052.20	1154.90	1028.90	954.00	925.90	1074.20	1065.20	1064.30
Area harvested [50]	21.17	25.92	15.19	14.19	15.19	16.82	15.98	16.25
Yield [50 (kg/ha)]	47615.00	47015.00	67416.00	66416.00	60416.00	63416.00	70416.00	65216.00



- UNESCO 联合国教科文组织数据库
- FAO 联合国粮农组织数据库
- World Bank 世界银行数据库
- EU 欧洲联盟数据库
- IMF 国际货币基金组织数据库
- World Economic Forum 世界经济论坛





# International Agricultural Information Service

## [ The alliance for global agricultural big data and information services ]

National agricultural S&T innovation alliance

The alliance for global agricultural big data and information services

- AII-CAAS
- Directly affiliated institution under MoA
- Local agricultural scientific research institutions and universities
- Enterprises



### S&T resources co-construction and sharing platform

S&T resources co-construction and sharing

Overseas agricultural research and data survey

Wide resources

One-stop

Full coverage

multi-terminal



# IV

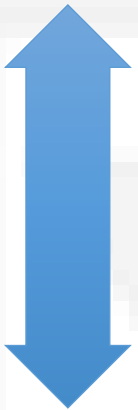
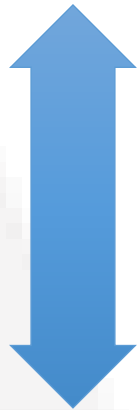
Leading Organization in  
National Level





# Leading Organization in National Level

 中国农业科学院  
**海外农业研究中心**  
Center for International Agricultural Research, CAAS



**APEC  
Agrotechnique  
work group**



**China-EU  
Agrotechnique  
work group**



**MACS**



19th Agricultural Tech  
September 28-29, 2015 | Iloilo

Forum of Leaders for Agrotechnique  
Cooperation on the 30<sup>th</sup> Anniversary



**第五届G20农业首席科学家会议  
5<sup>th</sup> Meeting of G20 Agricultural Chief Scientists**

30-31 May 2016  
Xi'an, China



**T h a n k   y o u !**



中国农业科学院

海外农业研究中心

Center for International Agricultural Research, CAAS