

Expectations on China-EU Collaboration in Food Safety Under “Horizon 2020” --- From A “STANDARD” Perspective

Dr. Qian Yongzhong



**Institute of Quality Standard & Testing Technology for Agro-Products
Chinese Academy of Agricultural Sciences**

OUTLINE

- **Brief introduction of IQSTAP-CAAS**
- **Previous and ongoing collaboration with EU**
- **Expectations from a “STANDARD” perspective under “Horizon2020”**



Brief introduction of IQSTAP-CAAS



Institute of Quality Standard & Testing Technology for Agro-Products CAAS

Overview of the organization

Established in 2003 as:

- **Institute of Quality Standards & Testing Technology for Agro-products of CAAS**

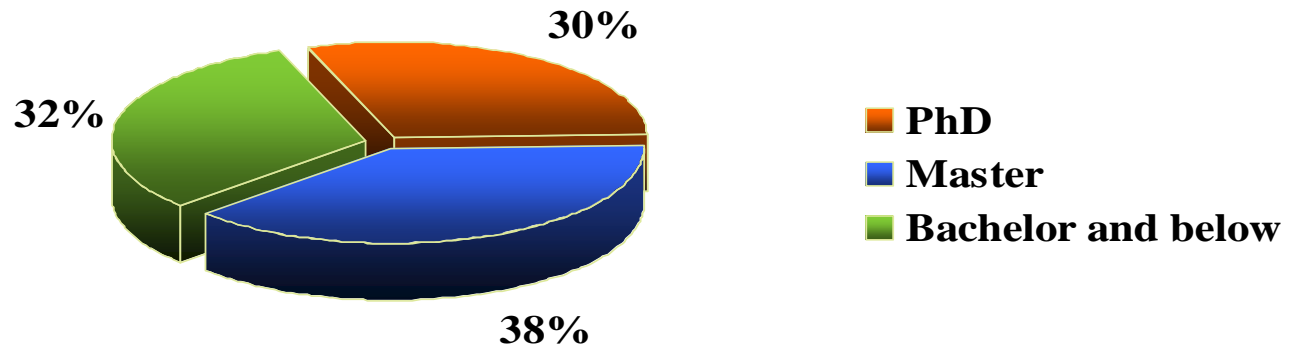
Reassigned in 2006 by MOA as:

- **Research Center of Quality & Standards for Agro-products of MOA**



Overview of the organization

- **Staff: 76 with 33 senior researchers majored in wide range of disciplines such as: plant science, animal science, food science, chemistry, agro-economics, statistics, etc.**



Facilities

A research building of 17,000 m² installed with state-of-the-art instruments and formally opened August 2008



Organizational Chart



Research Platforms Built in IQSTAP

1. Key Laboratory of Agro-product Safety and Quality, Ministry of Agriculture

- **Headquarter of the laboratory cluster in agro-food safety and quality research in China**
- **Responsible for leading and coordinating research schemes and activities within the discipline, as well as capacity building**
- **Dedicated in organizing academic and personnel exchange and fostering information sharing, as well as technology transfer**



Research Platforms Built in IQSTAP

2. National Feed Quality Control Center (CNFOCC)

- Feed quality supervision, assessment and re-inspection of high quality feed assigned by governmental agencies
- Responsible for quality inspection, identification of new feed products, scientific and technical registration and identification of feed
- Arbitral inspection for feed quality and other consigned inspections



Research Platforms Built in IQSTAP

3. National Information Center of Agro-products Safety (NICAS)

- First of its kind in agricultural sector nationwide
- Targeting effective risk communication and precaution and providing solid basis for policy making
- Incorporating function modules of rapid data collection, data processing and statistics, risk analysis and precaution, as well as data retrieving at demand



Research Platforms Built in IQSTAP

4. Nankou Demonstration Base for Evaluation and Standardized Production of Agro-product Safety

- 27,000 M² in r
- Functional zones for experiments, lab areas, whole chain aiming for technology demonstration



Affiliated Bodies to IQSTAP

- **WTO Notification Contact Point, MOA**
- **Secretariat for National Expert Committee on Risk Assessment for Agro-Product Quality and Safety, MOA**

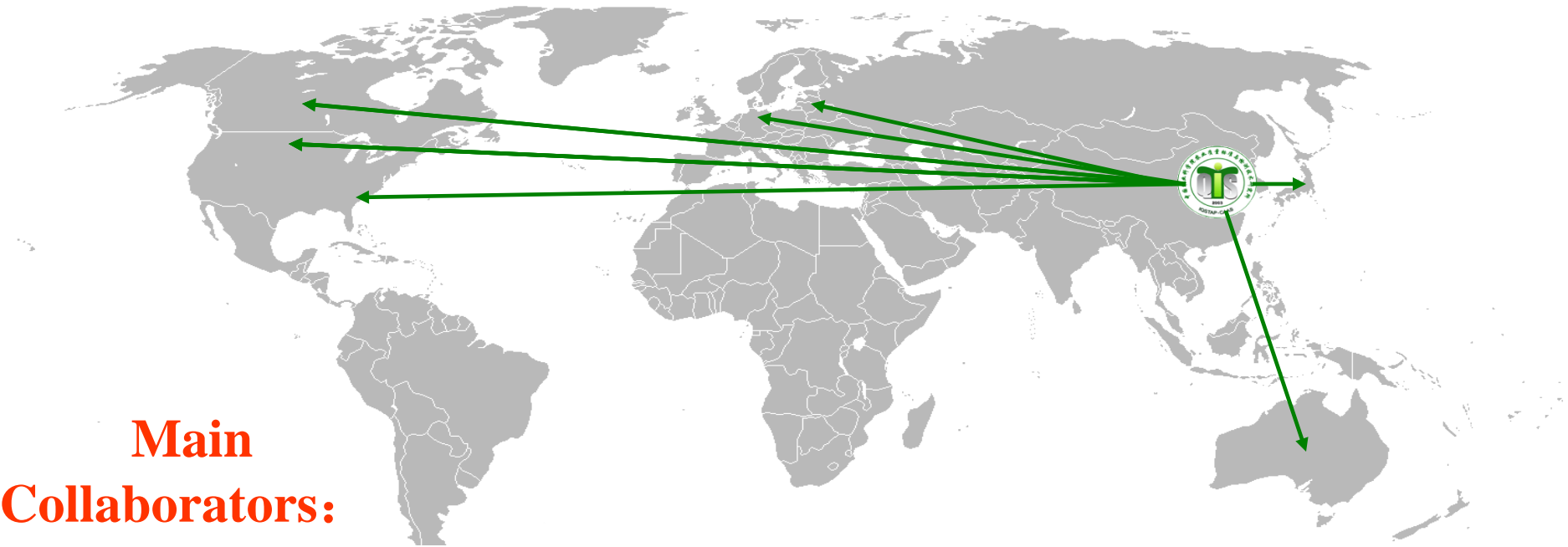


Research priorities

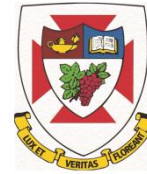
- Development of **standards and reference materials** for quality and safety of agro-products
- **Rapid pretreatment and measurement technologies** for food safety
- **Risk assessment** for additives and contaminants in agro-products
- **Food Traceability and authentication identification**
- **Technologies and management systems** for control of cultivation process of animals and plant crops



International Cooperation



Main Collaborators:



Institute of Quality Standard & Testing Technology for Agro-Products CAAS

Previous and ongoing collaboration with EU



Previous participation in EU projects

FP 6:

Tracing the Origin of Food Commodities in Europe (FP6-2003-FOOD-2A)

FP 7:

Practical Precision Livestock Farming for SMEs in Europe and World-wide (FP7-KBBE-2007-2B)

EU-China Trade Project

(DCI-ASIE/2010/247-593)



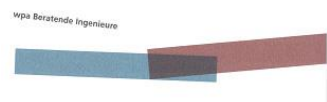


Object of the project:

To develop traceability methods and systems that will provide consumers with added confidence in the authenticity of European food.



Partners in TRACE



IQSTAP Activities in TRACE

- **Validating trace system with Chickens as designed original samples**
- **Demonstrating EU analytical trace system in a Chinese poultry company (Dafa Co.)**
- **Training Chinese technicians on trace analytical methods and chemometrics**
- **Feasibility of tracing origins of chicken products by analysis in China.**



Joint workshop in Beijing

Sino-EU Workshop on Development & Application of Trace Technologies for Food Safety and Quality, Beijing, Oct.16, 2008



Follow-up/Matching research works

Several research projects are approved by MOST/MOA:

- Study on **tracing origins** of beef (continued,2007-2010)
- **Tracing origins** of artificial pigments of poultry products (2010-2012)
- International cooperation on **trace** of animal products (2010-2014)



➤ EU FP7 project **Bright Animal**:

“ Practical Precision Livestock Farming for SMEs in Europe and World-wide” (FP7-KBBE-2007-2B).

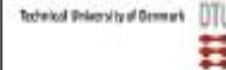
➤ The Project was kicked off May 2009 at Halifax, UK, and concluded April 2011 in Barcelona, Spain.



Research partners



MEET OUR GLOBAL PARTNERS



EU-China Trade Project

➤ Risk assessment capacity building through training and technology dissemination with EU CTP



Ongoing EU project

➤ “Sustainable Production And Consumption Models And Certification Tools In Chinese Food Supply Chains”,

----aiming to contribute to the adoption of sustainable production practices in the food sector in Sichuan, Henan and Qinghai Provinces in China by fostering of the capacities of the food sector.

switchasia
PROGRAMME



Expectations from a “STANDARD” perspective under “Horizon2020”

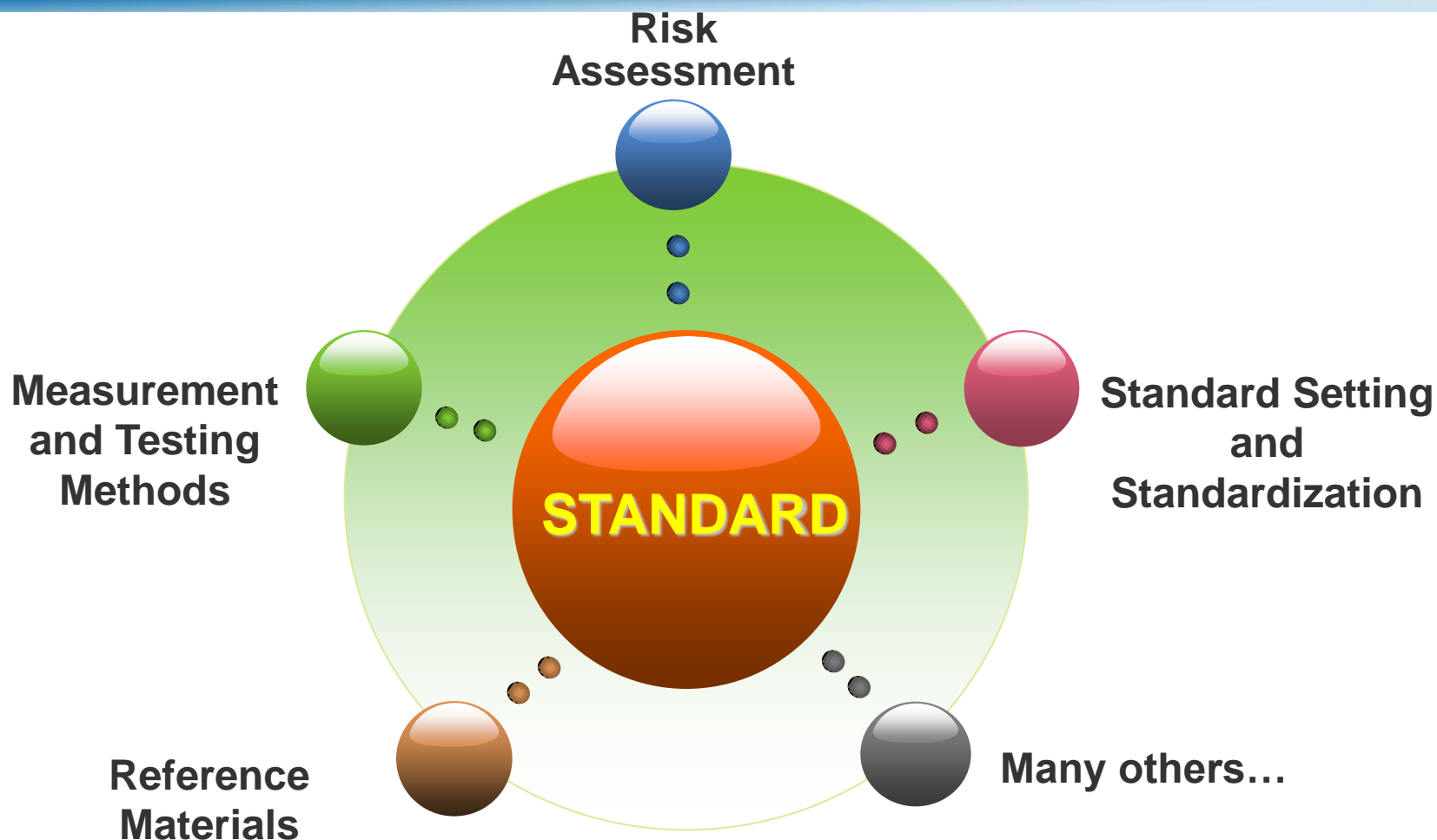


Why “STANDARDS” ?

- Highlighted in “Horizon2020”
- Legal requirements for both China and EU in controlling food quality and safety
- Act as core in food quality and safety and integrate related research areas
- Effective tool in addressing trade disputes and coordinating trade barriers
- Critical in incident management
- Indispensable in interaction among all stakeholders in the food chain



“STANDARD-oriented” Areas...



From there we propose the following topics for collaboration under the framework of “Horizon2020”:



1. Interoperable Standard Research

- ✓ Standards setting for residue limits of pesticides used in the production of edible agro-products, especially those for export to EU, such as tea, vegetables, fruits...
- ✓ R&D on reference materials for various measurement methods
- ✓ Research on coordinating mechanism for trade barriers or disputes
- ✓ Standardization in agricultural production process



2. Risk Assessment

- ✓ **Research on methodologies and key technologies for food safety risk assessment**
- ✓ **Establishment of technical mechanisms and systems for risk monitoring, assessment and precaution**



3. Testing Technologies

- ✓ **Research on technologies critical to testing and monitoring additives and contaminants in food**
- ✓ **Research on fast-testing technology for monitoring the quality and safety of agro-products in wet market**
- ✓ **Research and development of products related to testing technologies**



4. Traceability & Authenticity

- ✓ **Research on dynamics of residue, gathering, migration and elimination of main contaminants in agro-food**
- ✓ **Development of tracing and tracking platforms for food commodities using third-party testing techniques**
- ✓ **Whole process control technologies for production of crop plants & animals**



Thank You for Your Attention!

Contact: +86 10 82106298

qyzcaas@163.com



**Institute of Quality Standard & Testing Technology for Agro-Products
Chinese Academy of Agricultural Sciences**