

UK-China Cooperation
on
Agriculture Innovation and Food Security

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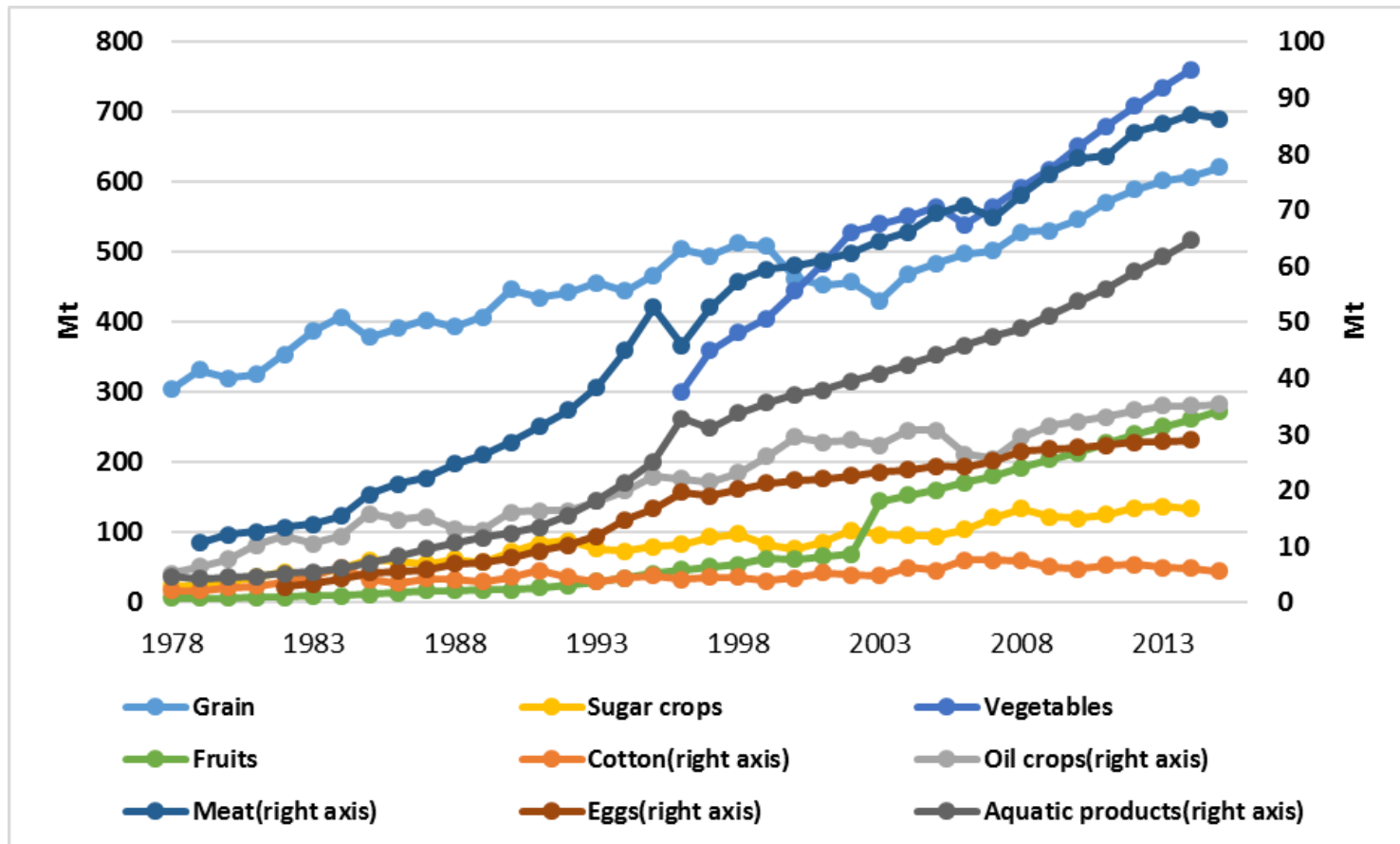
Westminster Food & Nutrition Forum Keynote Seminar: Food security - UK priorities, supporting domestic production and driving innovation. 21st September 2017.

Outline

- China's transition in agriculture and food security
- UK China cooperation in agri-food sector
- Toward greater synergies

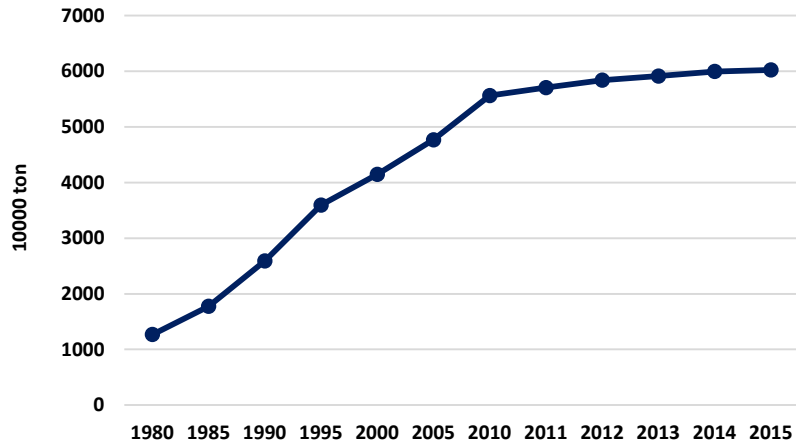
China's transition in agriculture and food security

Output of major agricultural products (Mt)

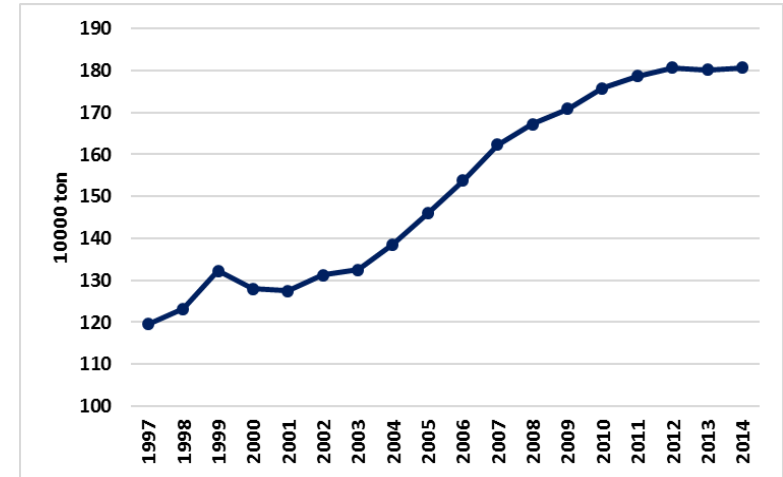


China's transition in agriculture and food security

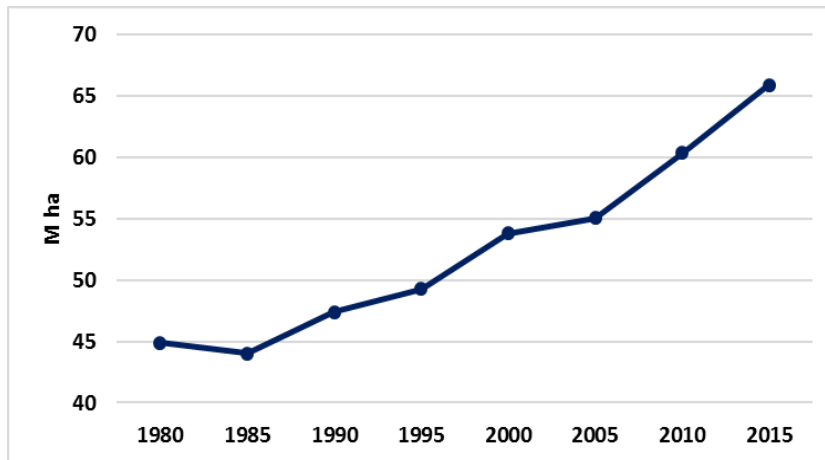
Fertilizer use in agriculture



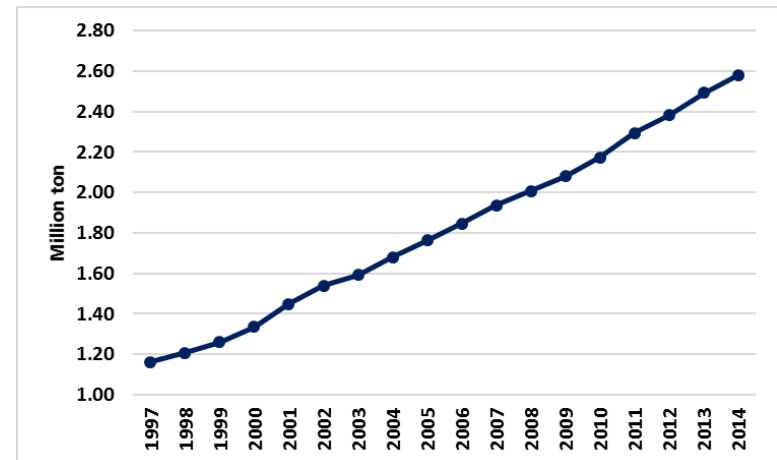
Use of agricultural pesticides



China's irrigation area

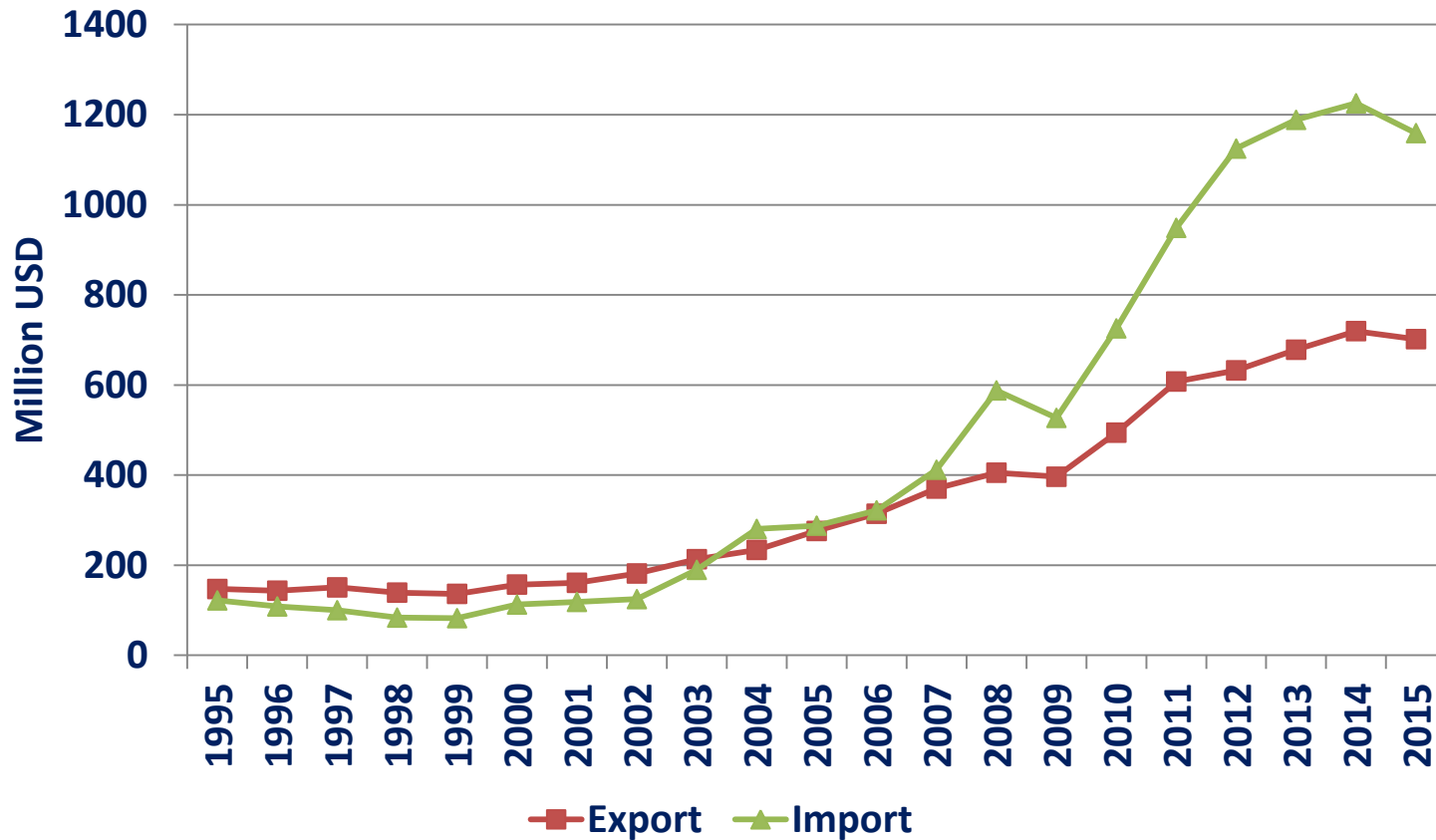


Use of agricultural plastic film



China's transition in agriculture and food security

Import and export of agricultural products



China's transition in agriculture and food security

National Sustainable Agricultural Development Plan (2015-2030)

- Optimise the allocation of agricultural production, steadily raise agricultural productivity. **By 2020, the contribution rate of technology progress to China's agriculture increase to over 60%.**
- Stabilise arable land area, upgrade arable land quality, ensure the total arable land area over 120 million ha. **By 2020, increase area of well connected high quality arable land to 53 million ha.**
- Adopt “red line” for water resource management, promote water saving irrigation and develop rain-fed agriculture. **By 2020, irrigation water use efficiency reach 0.55, build up 19.2 million ha high efficiency irrigated land.**
- Control crop and livestock pollution. **By 2020, realise zero growth in fertilizer and pesticide use; by 2030, realise comprehensive utilization of livestock waste, recycle the agricultural plastic film and packages, and crop straws fully used.**
- Rehabilitation of agriculture environment, rising ecosystem functions. **By 2020, forest coverage reaches to over 23%, and the vegetation coverage of grassland reaches to 56%.**

China's new food security strategy

- Ensure largely self-sufficiency in cereal and absolute security in food grain (rice, wheat)
- Moderate imports
 - more active utilisation of international food market and agricultural resources
 - Establish sustainable, stable and reliable global agri-food supply network
- Enhancing production capacity and sustainable agriculture
 - Storage food in land
 - Storage food in technology

UK-China Cooperation on Agriculture Innovation and Food Security

Cooperation between UK and China in agriculture and food sector is becoming increasingly strong and diverse:

- In 2008, MoU signed by Defra and Chinese Ministry of Agriculture, SAIN was established
- In January 2015, a new MoU between UK's Defra and MoA was signed in Beijing
- Newton Fund has allocated over £30 million to support the UK-China joint research on agri-tech innovation, nitrogen management, sustainable rice production, and critical zone science.
- China has become the third largest UK food export market after EU and USA;
- There is increasing enthusiasm in the UK and China to explore more opportunities for cooperation in the agri-food sector.

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Typologies of existing UK China links on agri-food research and innovation

- Government MoUs
 - Defra-MoA, Newton Fund, etc
- Networks/partnerships
 - SAIN
- Joint research programmes/projects
 - AgriTech in China, AgriTT etc
- Joint centres
 - JIC-CAS, RRes-CAAS, CERAD et al
 - N-Circle, CINAg etc
- Personnel exchange
 - British Council/Newton Fund

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Strength/weakness of existing links on research and innovation

- Involvement of world leading scientists from both countries
 - Wide coverage of the science and technology gaps
- Some duplication of effort
 - Inadequate involvement of economists and social scientists and government officials responsible for translating R&D outcomes into effective policies.
 - Limited involvement of the commercial sector.
 - Lack of formal framework for linking the relevant Newton Fund and other projects, and for timely information flows between them.
 - Most of the existing collaborations focus on crops whereas livestock sector possibly present greater innovation and market opportunities for UK companies in China.

知识共享 互学互鉴

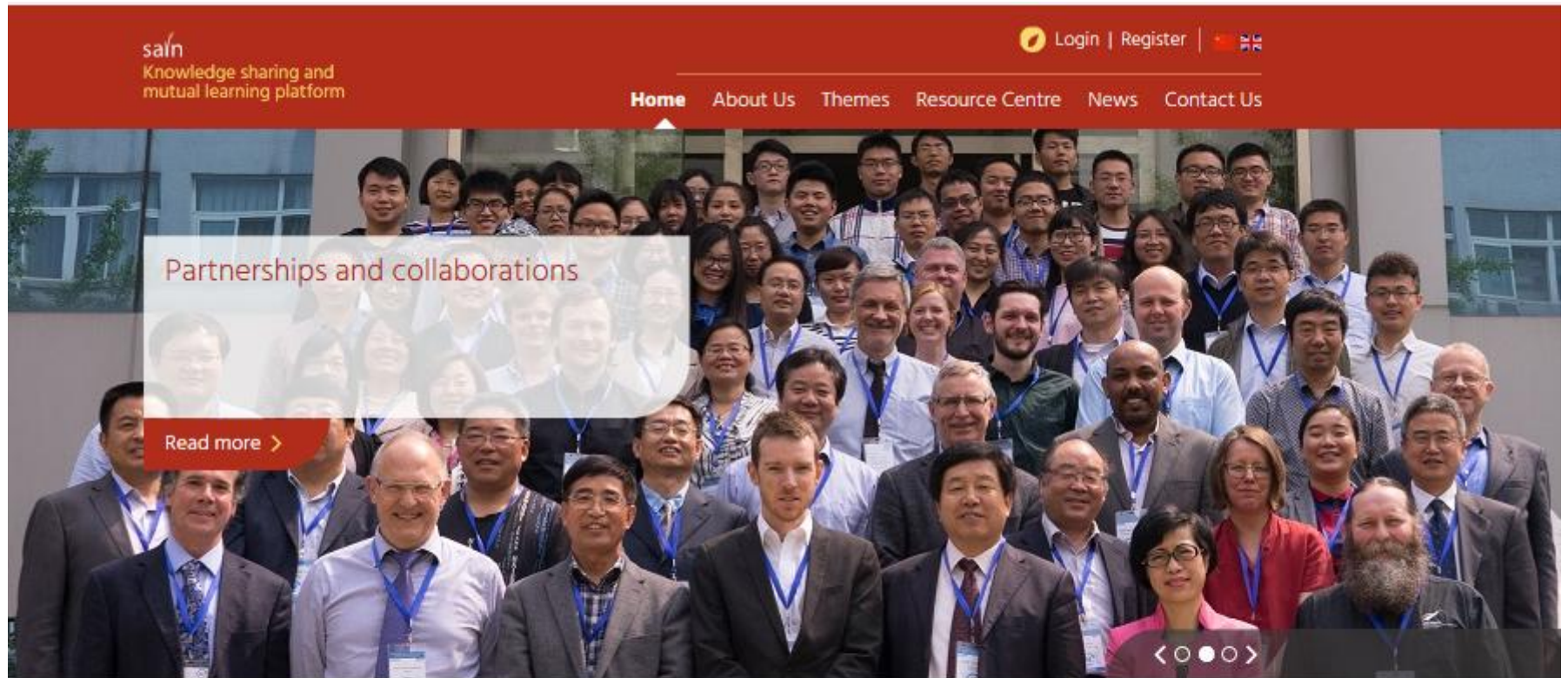
Knowledge Sharing and Mutual Learning Platform

Objectives

- (i) Support the implementation of UK China cooperation initiatives
- (ii) promote cross-disciplinary collaboration;
- (iii) enhance communication and engagement amongst existing initiatives and stakeholders to maximise synergies and support policy development; and
- (iv) foster new cooperative partnerships.

KSML Platform website: one-stop-shop

<http://knowledgeshare.sainonline.org>





UK-China Knowledge
Sharing and Mutual
Learning Platform

The Platform has been established to (i) support the implementation of UK China cooperation initiatives in agriculture, food and environment sectors; (ii) promote cross-disciplinary collaborations; (iii) enhance communication and engagement amongst existing initiatives and stakeholders to maximize synergies and support policy development, and (iv) foster new cooperative partnerships.

KSML Platform website: one-stop-shop

<http://knowledgeshare.sainonline.org>

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Resource Centre

The Resource Centre provides comprehensive and updated source of information on cooperative projects, published documents, organisations and experts in agriculture, environment and food sectors in both UK and China.

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Thank You

UK China Sustainable Agriculture Innovation Network

<http://www.sainonline.org>

UK China Knowledge Sharing and Mutual Learning Platform

<http://knowledgeshare.sainonline.org>