



中国国际技术转移中心
China International Technology Transfer Center



NATUREEF



Sino-Europe Agro-Innovation: A New Generation of Sustainable Agricultural Production

UPSTREAM



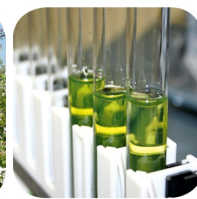
seeds / agricultural supplies /
agricultural machinery /
software

PRODUCTION



fruits and vegetables /
flowers and plants / vine /
medicinal plants /cider

DOWNSTREAM



transformation /
marketing /
distribution

Intelligent Farming and Sustainable Production Biomass and Waste to Energy Water Management Seed Technologies and Heavy Machinery

Organizers: Beijing Municipal Science and Technology Commission, Government of Hebei Province, Government of Huai-an City, China International Technology Transfer Center, Agro Business Park, Innovation Network for Biomass, , FEMAC, Joinnovation

Sponsors: European Commission, Enterprise Europe Network

China Dates: 2017.06.13-20

Deadline for Expression of Interest: 2017.05.15 (Annex I)

Program as of:
2017 May 5

Background

Within the context of a rebounding global economy, and a re-newed commitment to push science and technology to catalyze sustainable and inclusive commercial and economic development, Natureef is developed as a Sino-European network of clusters focusing on agriculture and resource re-use and efficiency. Natureef will be a bridge for China and Europe to cooperate, business to business, cluster to cluster, country to country, continent to continent.

Mandate

The mandate of Natureef is to increase scientific and commercial relationships at the nexus of innovation, encourage cooperation between innovators and scientists, promote joint development between Chinese and European research and industrial structures to achieve market-oriented commercialization, and promote mutual market access, all towards the goal of supporting sustainable agricultural development. Through a variety of services facilitating business to business brokerage, joint research, and industry to people links, Natureef will operate as a key mechanism between China and Europe on agriculture and resource efficiency and use.

Purpose

The purpose of the Natureef European Strategic Cluster Partnership is to design a mechanism on cross-sectoral, globalized, cluster and business cooperation within the fields of agriculture and natural resource use, efficiency, and protection. In line with the Chinese government's One Belt One Road initiative, the Natureef project will connect China and Europe specifically in the areas of exchange of technologies, business opportunities, market access, and policy development.

Activities

For the European side, Natureef will facilitate China market access and the internationalization of small and medium sized companies (SMEs) through mentoring and dissemination of their innovative technologies. For the Chinese side, Natureef will provide opportunities for Chinese industry, research and policy to work with Europe to develop new and efficient ways to use and protect China's increasingly depleting natural resources. The project will develop and strengthen the cooperation among the clusters and SME members as a result of the development of a sister cluster in China, Fujian, B2B meetings, technology exchange, commercialization, and in-depth collaboration on joint projects.

Key Topics

Natural resources underpin the functioning of the European, Chinese and global economies and our individual and collective quality of life. These resources include raw materials such as fuels, minerals and metals but also food, soil, water, air, biomass and ecosystems. The pressures on natural resources are increasing. If current trends continue, by 2050, the global population is expected to have grown by 30% to around 9 billion, and people in developing and emerging economies will legitimately aspire to the welfare and consumption levels of developed countries. As we have seen in recent decades, the intensive use of the world's resources puts pressure on our planet and threatens the security of supply.

Continuing our current patterns of resource use is not an option. In response to these changes, increasing resource efficiency will be important to securing growth and jobs for Europe. It is also necessary to conserve and find ways of maximizing use for the high-growth rates of China. Shifting to this "new normal" can also bring major economic opportunities, create jobs, improve productivity, drive down costs and boost competitiveness. It is necessary to develop new products, processes, technologies and services and find sustainable ways to reduce inputs, minimize waste, improve management of resource stocks, change consumption patterns, optimize production processes, operations management and business tools.

Within the framework of Natureef and Natureef China, we will promote, accelerate and foster innovation and bring to market new solutions that solve issues related to the use of natural resources.

Sectors

INTELLIGENT FARMING, AND SUSTAINABLE FOOD AND AGRICULTURAL PRODUCTION

The challenges we are all facing include growing populations increasing stress on production capacity and an increasing negative impact on natural resources. Creating sustainable and intensive food and agricultural production requires know-how, research, and innovative technological solutions that also take into account food safety and quality in all parts of the value chain from field to fork.

Key topics include: Sustainable plant production, livestock production, animal welfare, sensors/robots for optimized plant production, food processing, food safety, organic food

WASTE TO ENERGY, BIOMASS AND BIOENERGY

China is facing great challenges in producing enough fertilizers for a fast growing population and, at the same time, reducing its carbon footprint. Anaerobic digestion technology has an efficient way of meeting these challenges through the recycling of residues from agriculture and the food industry. Co-firing solid biomass on existing power plants is an easy step in becoming more green. Bioenergy value chains can re-utilize resources while creating jobs in rural areas.

Key topics include: Biogas production, handling and utilization of solid biomasses like rice husk, co-firing (coal/biomass), bioenergy, nutrient recycling, flue gas cleaning, job creation

WATER MANAGEMENT

Providing enough fresh water for a growing population and for increasing industrial production is a critical issue in many countries including China. Climate change is affecting global rainfall patterns and water distribution. Since there is approximately 100 times more groundwater on Earth than fresh surface water, it makes sense to exploit groundwater as a source of water. In many parts of the world, especially in arid or seasonally dry regions, groundwater can provide a stable and sustainable source of high quality water.

The lack of proper wastewater treatment can result in severe environmental degradation of inland and sea waters around the world. Water scarcity and population growth furthermore, underline the importance of treating and understanding the value of wastewater.

Key topics include: Waste water treatment, municipal waste handling and utilization, energy production, nutrient recycling

Program

Please note: This is a tentative program and will be finalized once European companies are confirmed.

Day 1: 2017 June 13-14 – Europe to Beijing	
1. Travel	
	Depart Europe
	Arrive China, Beijing
Day 2: 2017 June 15 – Beijing	
2. Site Visit and Workshop: Coffee Talk at Innovation Street 10:00-11:00	
Chinese side:	Zhongguancun Innovation Street
	China International Technology Transfer Center
	Feimalv Incubator
Topics:	Innovation, Investment, Start-ups, Entrepreneurship in China
3. Working Lunch: Doing Business in China: Nuts and Bolts 11:00-12:30	
Presenter:	EU SME Centre: Mr. Rafa Jimenez (TBC)
4. Welcome Meeting and Memorandum of Understanding Signing 13:00-14:00	
Chinese side:	Beijing Municipal Science and Technology Commission
	China International Technology Transfer Center
	Beijing Academy of Agricultural and Forestry Sciences
	Chinese Academy of Agricultural Sciences (CAAS)
	Chinese partner companies
5. Business to Business Matchmaking 14:00-17:00	
Chinese side:	Heavy Machinery
	Waste to Energy
	Poultry producers
	Greenhouses
	Seed Technologies
Day 3: 2017 June 16 – Beijing to Hebei	
6. Travel 07:30-08:45	
	Depart Beijing
	Arrive Hebei
7. Welcome Meeting and Memorandum of Understanding Signing 10:00-11:00	
	Hebei Provincial Government and Representative Companies
8. Business to Business Matchmaking and Networking Lunch 11:00-13:00	
Sectors:	Waste and Biomass to Energy
	Intelligent Farming and Sustainable Production, including livestock
	Seed Technologies and Fertilizers
	Heavy Machinery
	Big Data and Internet of Things

9. Site Visit 13:30-16:00	
	Local industrial park and companies
10.Travel back to Beijing 17:00-18:15	
	Evening site-seeing
Day 4: 2017 June 17- Beijing to Huai'an, Jiangsu	
11.Travel and Arrival to Huai'an 08:00-10:30	
	Arrival to Huai'an
	Check into Hotel and meeting preparation
12.Welcome and Site Visits 14:00-17:00	
	To be arranged by Huai'an Municipal Government
Day 5: 2017 June 18 – Huai'an	
13.Opening Ceremony 09:00-10:00	
	CITTC Huai'an Opening Ceremony
	Remarks: Huai'an Municipal Government
	Remarks: European Union Agriculture Dept. TBC
	Remarks: Natureef Representatives
14.Welcome Meeting and Memorandum of Understanding Signing 10:00-11:00	
	Huai'an Municipal Government
	Natureef Representatives
	European Companies
15.Cluster Development Presentation 10:00-11:00	
Spanish side:	Future Emerging and Modern Agriculture in Catalonia Company: TBC
Danish side:	AgroBusiness Park
16.Business to Business Matchmaking 14:00-17:00	
Sectors:	Waste and Biomass to Energy
	Intelligent Farming and Sustainable Production, including livestock
	Seed Technologies and Fertilizers
	Heavy Machinery
	Big Data and Internet of Things
Day 6: 2017 June 19 – Huai'an	
17.Travel	
	Depart Huai'an
	Arrive either Beijing or Europe
Day 7: 2017 June 20 – China to Europe	
18.Travel	
	Depart China
	Arrive Europe

Key Partners

China International Technology Transfer Center – Chinese Ambassador for Natureef

In 2012, China's Ministry of Science and Technology and Beijing Municipal Science and Technology Commission established the China International Technology Transfer Center (CITTC) as a global accelerator in the heart of China's National Innovation Cluster in Zhongguancun, Beijing. Surrounded by universities, research institutes, start-ups and investment firms, CITTC is uniquely positioned to make strategic connections between policy, talent, capital, and end users. Our partners and neighbours include Peking University, Tsinghua University, Beihang University, Renmin University, Zhongguancun Science Park, Founder Capital, Lenovo, Baidu, and Microsoft. This innovation matrix makes Zhongguancun one of China's premier clusters, integrating dynamic talent and cutting edge technologies with new and exciting business models. CITTC is now also being exported as a cluster concept to municipalities throughout China. Currently, we are working with municipalities in Shaanxi Province, Jiangsu Province, Hebei Province, and Shandong Province to export the winning formula that CITTC provides as a foundation for aligning existing resources into a clustered powerhouse.

Joinnovation

Joinnovation Ltd., is focused on helping foreign technology-based companies achieve success in China. We provide a range of services to our clients: (1) Business, market and commercialization strategy and support; (2) Financial support and business development; and (3) Marketing communications support. We also provide (4) Technology support, which includes R&D channels into China. Joinnovation has cultivated an extensive network of relationships with entrepreneurs, inventors, technology transfer organizations, lawyers, patent attorneys, accountants, investment bankers, venture capitalists, and commercial enterprises. Through our network, Joinnovation has generated high-quality business development resulting in concrete deliverables for our clients.

European Commission – COSME Program

COSME is the EU programme for the Competitiveness of Enterprises and Small and Medium-sized Enterprises running from 2014 - 2020 with a planned budget of EUR 2.3 billion. COSME aims to make it easier for small and medium-sized enterprises (SMEs) to access finance in all phases of their lifecycle – creation, expansion, or business transfer. Thanks to EU support, businesses have easier access to guarantees, loans and equity capital. EU 'financial instruments' are channelled through local financial institutions in EU countries.

Enterprise Europe Network

The Enterprise Europe Network helps businesses innovate and grow on an international scale. It is the world's largest support network for small and medium-sized enterprises (SMEs) with international ambitions. The Network is active in more than 60 countries worldwide. It brings together 3,000 experts from more than 600 member organisations – all renowned for their excellence in business support. Teams of Network experts in each member organisation also offer personalised services to businesses based on the local business environment. The Network can offer a targeted approach aimed specifically at each business sector. Its expert groups cover all key economic sectors, from healthcare to agrofood, from intelligent energy to fashion and textiles.

FEMAC – Spanish Member of Natureef

Future Emerging and Modern Agriculture in Catalonia is the Agricultural Production Means Cluster, what groups together the main Catalan companies with the aim to develop and implement projects that combine the capabilities and vision of cluster companies with sustainable solutions for global agriculture. After more than one decade, FEMAC has decided to integrate a Smart Specialization Strategy in the Cluster to better respond to complex Agricultural development challenges through developing new economic activities and exploiting new forms of innovation and cooperation with other regions, clusters and innovation players.

www.femac.org

Agro Business Park and INBIOM – Danish Member of Natureef

Agro Business Park is Denmark's only science park specialising in knowledge based innovation and entrepreneurship within agriculture, bioenergy, environmental technologies and food processing. Agro Business Park operates INBIOM. The Innovation Network for Biomass (INBIOM) is a national network facilitating development of new technologies, processes and companies related to growing, handling and utilising biomass.

www.agropark.dk / www.inbiom.dk

About

Beijing City

Beijing has been the political centre of China for the major part of the past eight centuries. Currently, it is a major international and national hub for state-owned and private industry, government, science and technology, research and development, culture, and history. As a trendsetting tributary into China's mainland, Beijing provides opportunities to access China's large, emerging market. Purchasing power is strong in Beijing and, in terms of per capita disposable income of urban residents, high consumption rates from both the local residents and tourists has made Beijing one of the biggest consumer markets in China.

Over the past few years, important changes in Beijing have marked a new direction of greater China. For example, the private sector in Beijing has developed rapidly and by the end of 2012, there were roughly 600,000 private enterprises, compared to 151,000 in 2002. Beijing's service sector accounted for 76.5% of the city's GDP in 2012. Financial services, whole-sale trade and retail trade, and IT services were the three biggest sectors, composing 14.2%, 12.5%, and 9.1% of the GDP, respectively. Beijing's industrial production is dominated by heavy industries and large enterprises. In 2012, heavy industries accounted for 84.6% of Beijing's gross industrial output and large and medium size enterprises accounted for 78.5% of the output. Major industries include telecommunications equipment, transportation equipment, chemicals, machinery, metallurgy and food making.

Hebei Province

Situated in the coastal region of northern China, Hebei Province is well recognised for its strong economic development and rich resources. The province covers a total area of 188,800 square kilometres and has a population of nearly 72 million. Hebei makes the most of its numerous geographic advantages, including close proximity to the major Chinese mainland centres of Beijing and Tianjin, as well as Mongolia, and acts as a focal point connecting northern and southern China.

With its ideal location, rich resources, diversified industrial base plus the support of the central and municipal governments, Hebei is one of the most business-friendly provinces on the Chinese mainland. About 80 of the Global 500 Corporations have made investments in Hebei, including GE, Siemens, Danone, Panasonic and Samsung. Major mainland entities such as Sinopec, Petrochina, China Shipbuilding Industry Corporation, Huawei, Midea and BOE have also established a presence in the province.

Huai'an City, Jiangsu, Province

Located in the north of Yangtze River Delta, Huai'an, is the hometown of the great man of our times Zhou Enlai. Covering an area of 10,100 square kilometers, Huai'an administers four counties and four districts, and has a population of 5.40 million, of which 1.5 million are in the city proper of 150 square kilometres.

Having more than 10,000 industrial enterprises of various kinds, five key traditional industries of chemicals, machinery, textile, metallurgy and tobacco have been promoted rapidly. The city has already formed four pillar industries of special steel, salt chemicals, IT and food processing, and also two strategic emerging industries of high-end equipment and new energy automobile and spare parts manufacturing. At present, National-level Economic and Technological Development Zone, Export Processing Zone, Business Incubator for Overseas Chinese, 7 provincial-level Specially Industrial Park, and 7 provincial-level Logistics Bases have been established in Huai'an. There are also six universities and colleges and 43 secondary vocational schools with 190 thousand registered students.

Price

Flights:	Prices will vary depending on flight path	=XX
Hotels:	Beijing 400 EUR + Fuzhou 400 EUR	=800 EUR
Per diem:	25 EUR x 8 days	=200 EUR
Local Transportation:	30 EUR x 8 days	=240 EUR
Local Train tickets:		=40 EUR
Domestic Flights:		=285 EUR
Translation:		=300 EUR
Visa:		=35 EUR
On-Site Seminars:		=100 EUR
Total:		=2000 EUR + flight

Contact

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