



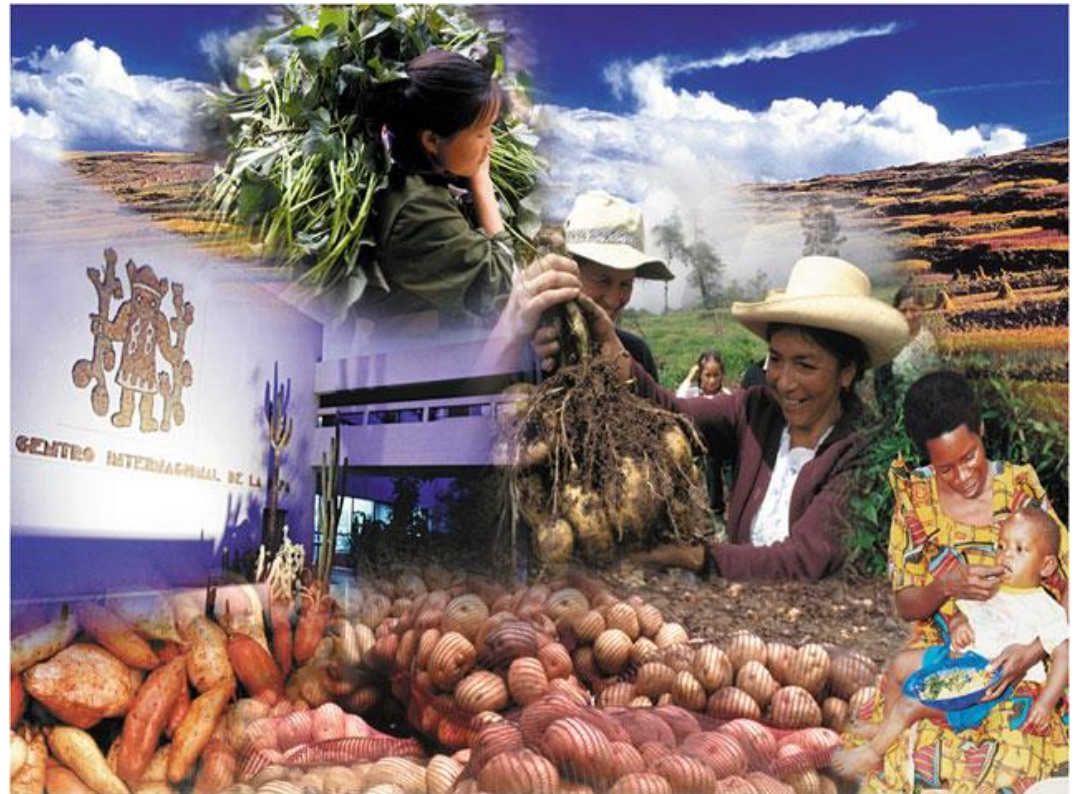
# **THE INTERNATIONAL POTATO CENTER**

## **CIP-China Center for Asia Pacific (CCCAP)**

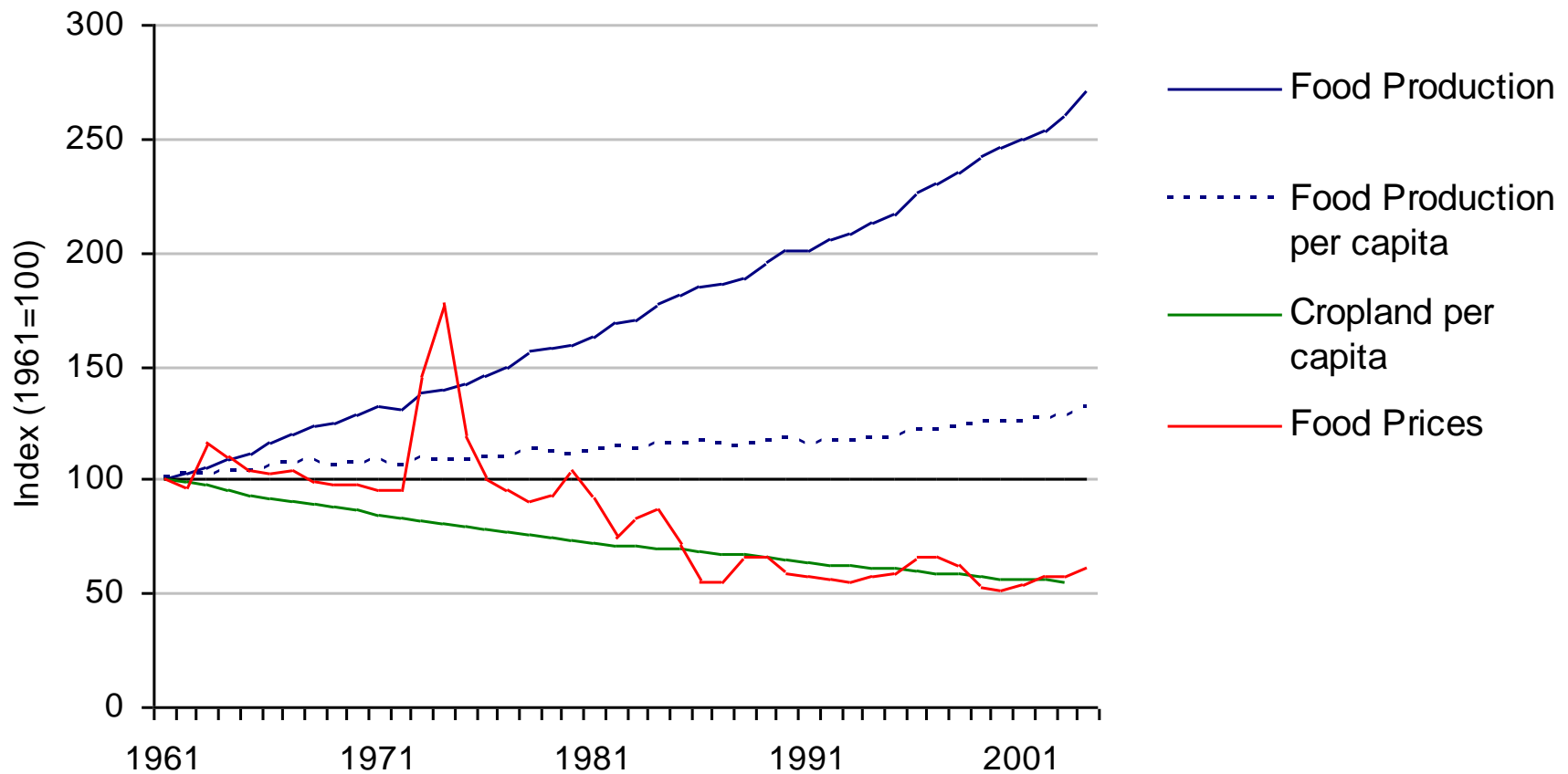
A CGIAR center headquartered in Lima, Peru

# The International Potato Center (CIP)

- International non-profit
- Science-based
- To achieve sustainable increases in production & use of potatoes, sweet potatoes and other root crops (RTCs)
- To develop and disseminate knowledge and solutions to address food and nutrition security
- To help alleviate poverty and hunger
- Founded in 1971



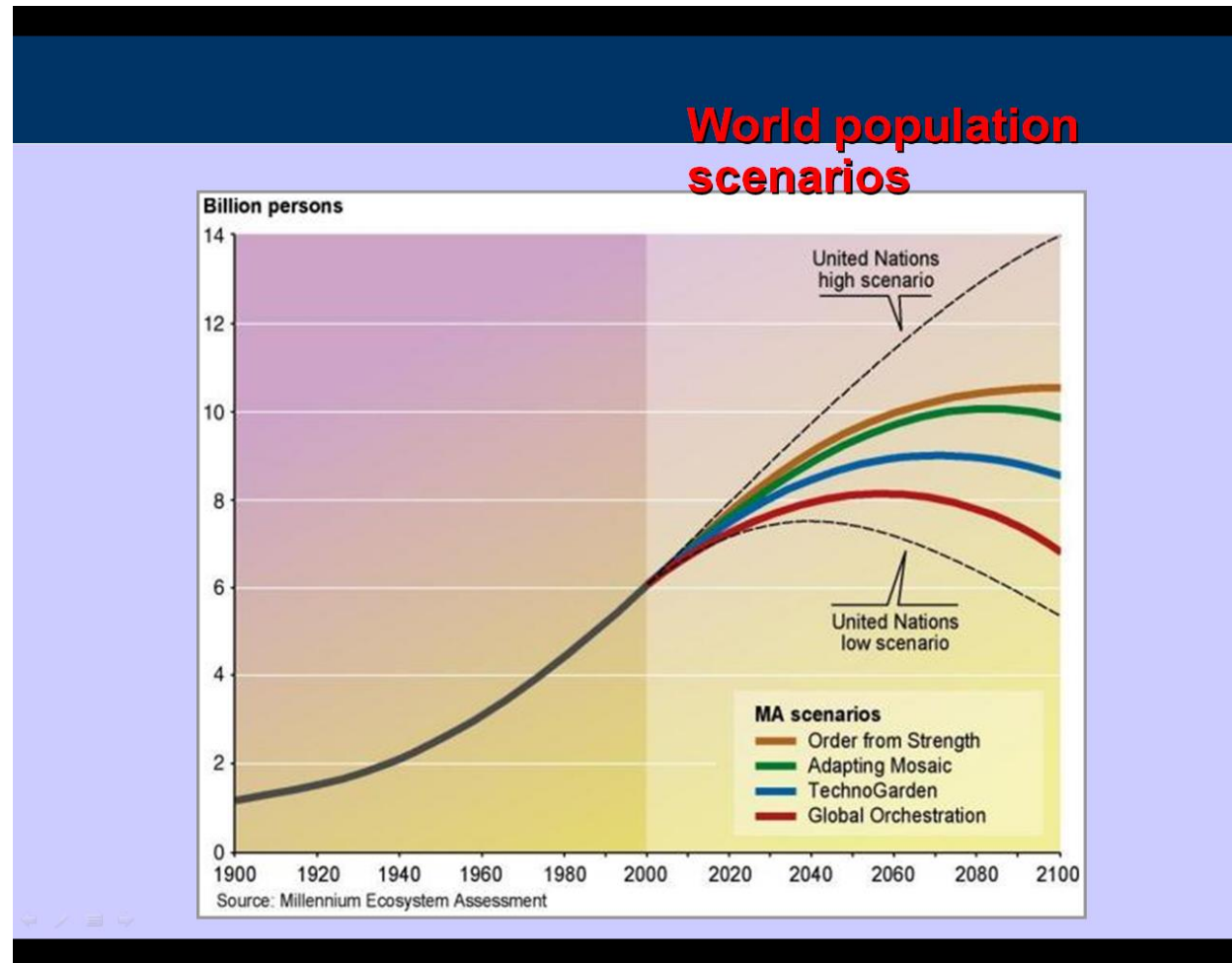
# Over the past 40 years, agriculture has effectively met global food demand globally





# But New Challenges Raise New Food Security Concerns

- **Rapid population increase** 人口快速增长
- **Rapid decrease arable land** 可耕地快速减少
- **Difficulty increasing yield of cereal crops** 谷类作物增产困难
- **Climate change causing production instability** 气候变化导致粮食生产不稳定



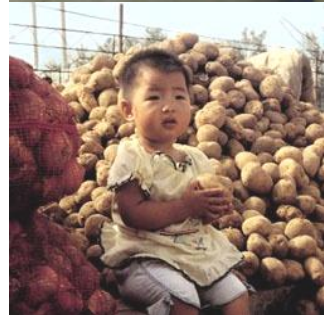
# CGIAR Consortium Research Centers



# Leading to Reform and a New CGIAR Vision and Objectives

<b>CGIAR Vision</b>	To reduce poverty and hunger, improve human health and nutrition, and enhance ecosystem resilience through high-quality international agricultural research, partnership and leadership.
<b>CGIAR Strategic Objectives</b>	<b>FOOD SECURITY</b>  <b>POVERTY REDUCTION</b>  <b>ENVIRONMENTAL SUSTAINABILITY</b>  <b>GENDER EQUALITY</b>





# CIP



Banana



Cassava



Potato



Sweet Potato

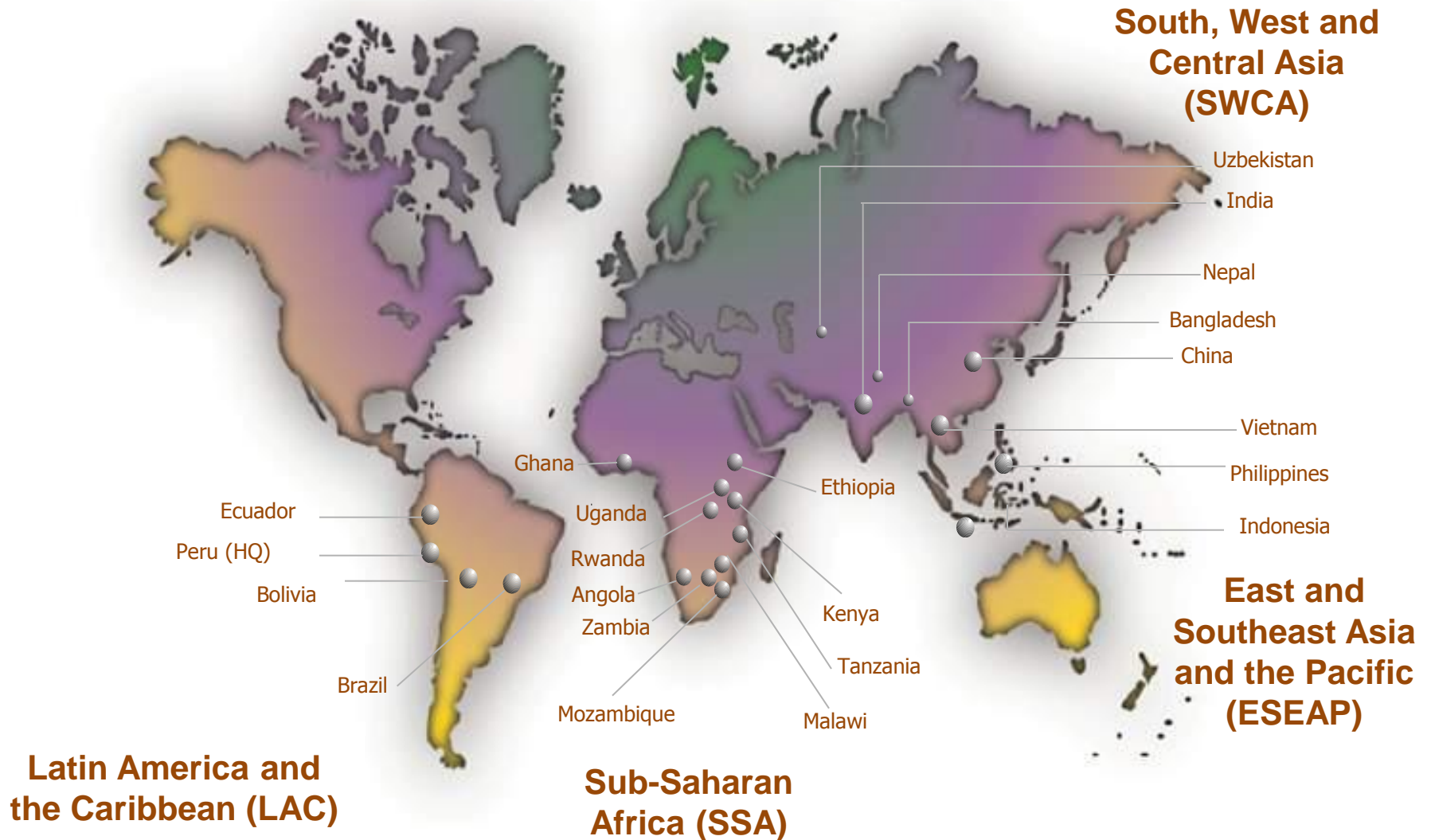


Yam



Other R&T

# CIP Regional Offices





# CGIAR Research Program (CRP) on Roots, Tubers and Bananas (RTB)

## Why roots, tubers, and bananas?

- Best food (located in the top ten places)
- Cheap sources of energy and nutrients (14-60% daily calories)
- Local production / trade (less subject to fluctuations in world grain prices)
- The backbone of food security and income of **180 million**, especially for the poorest and women



Research  
Program on  
Roots, Tubers  
and Bananas

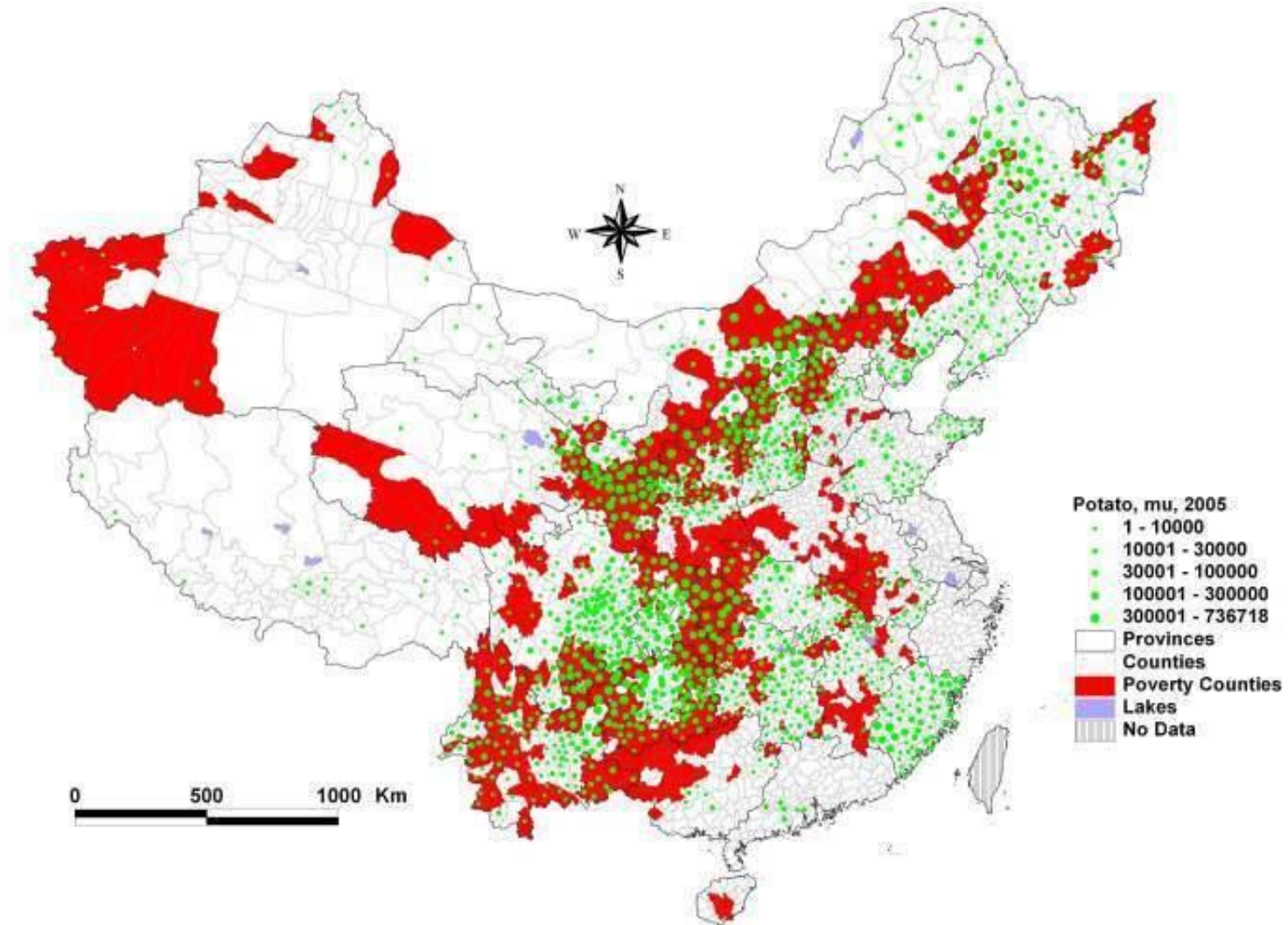
# THE CHINA CHALLENGE

- The Chinese population is expected to continue growing and stabilize at about 1.5 Bn
- China has targeted 95% food self-sufficiency.

## 12<sup>th</sup> 5-Year Plan ...

Increase potato production from 88 million tons (2011) to 150 million tons

# Potato production and poverty in China





# CCCAP

## CIP China Center for A/P

- The first international research organization for agricultural in China
- Its mission:
  - Improve productivity of roots and tubers in the region
  - Contribute to poverty alleviation in the region
  - Contribute to food security in the region
  - Promote gender equality

# CIP Cooperation with China

***March 1978 – 1984 : Three Chinese delegations visit CIP***

***1985: Scientific Agreement Between CIP and CAAS Signed***

***1985: CIP Liaison Office in Beijing established***

***2010: Host Country Agreement for CCCAP signed***

**1985: Dr. Richard L. Sawyer,  
first DG of CIP signed 1<sup>st</sup> round  
of cooperation agreement  
with CAAS**



# CIP's contributions to China

- Germplasm introduction, evaluation, utilization and exchange
  - 100 P and SP varieties related to CIP germplasm released
- Research and diagnosis for potato and sweet potato diseases
- Virus-free technologies for potato and sweet potato
- Post-harvest technology for potato and sweet potato
- Personnel training, most of China's leading potato and sweet potato scientists participated in CIP training
- Support national research projects
- Potato production more than doubled – higher yields
- Varieties CIP-24, Cooperation 88, and Jizhangshu 8 (Tacna)
- Potato Genome Sequencing Consortium



# Planned CCCAP Research Structure

Build R&D facility in Yanqing and partner with local laboratories initially focusing on:

- Genetic Resources
- Genetics and Crop Improvement
- Genomics and Biotechnology
- Integrated Crop and Systems Research
- Social and Health Sciences



# CIP-CHINA CENTER FOR ASIA AND THE PACIFIC (CCCAP)



中华人民共和国政府与国际马铃薯中心  
国际马铃薯中心亚太中心东道国协议



The Host Country Agreement between the Government of the People's Republic of China and the International Potato Center Regarding the Establishment of the CIP-China Center for the Asia Pacific Region (CCCAP)



# Yanqing R&D Facility

## - The Plan and Current Status -

亚太中心研发大楼效果图  
Rendering of Research & Development Building of CCCAP



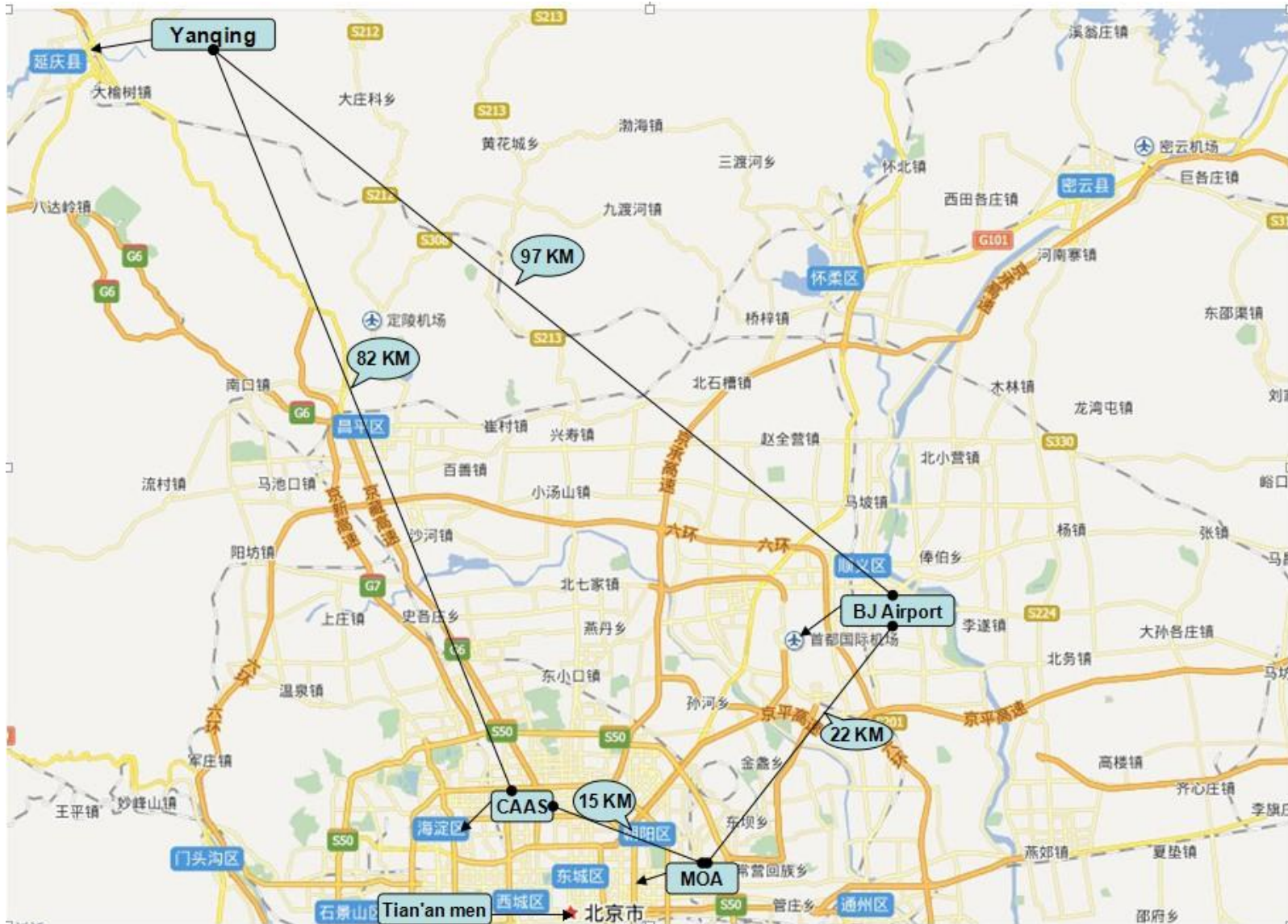
建筑面积: 10201.8 平方米  
使用面积: 6906 平方米 (125间)  
其中  
办公用房: 1816 平方米 (43间)  
研究室用房: 5090 平方米 (82间)

Area of Construction: 10201.8 square meters  
Area of Use: 6906square meters (125rooms)  
Including:  
Office Building :1816square meters(43rooms)  
Research & Development Building:5090square meters (82rooms)





# Yanqing – CAAS – Airport (Schools)













# Overview

- Yanqing High Tech Potato Industrial Park
- World Potato Congress – driving event (July 2015)
- Beijing Govt expected to approve funding to complete building construction – Mid-May.
- Yanqing govt requests CIP / CCCAP to provide detailed building layout design requirement by July 1<sup>st</sup>
- Yanqing hired firms:
  - **Beijing Jianxiong Construction Group Co. Ltd.**
  - **Beijing Guigu Bowei Architectural Design Co. Ltd** (previously Beijing Yanqing Architectural Design Studio)

# Main Components of the Yanqing R&D Center

1. Main R&D building – 10,200 m<sup>2</sup>
2. Agriculture Experimental Station
3. Offices, some labs, controlled environment greenhouses, traditional green houses / screenhouses, open fields for crop research work
4. Learning Center – modern, classrooms, combo classroom / labs, conference facilities
5. Germplasm Exchange Facility (separate building) - 2800m<sup>2</sup>

## Other (incomplete list)

- Dormitories / service apartments (approx 50 units)
- Canteen and other typical common area requirements (TBD)
- Storage facilities
- Reception and display area
- Overall staffing plan for Yanqing – approx 250 staff

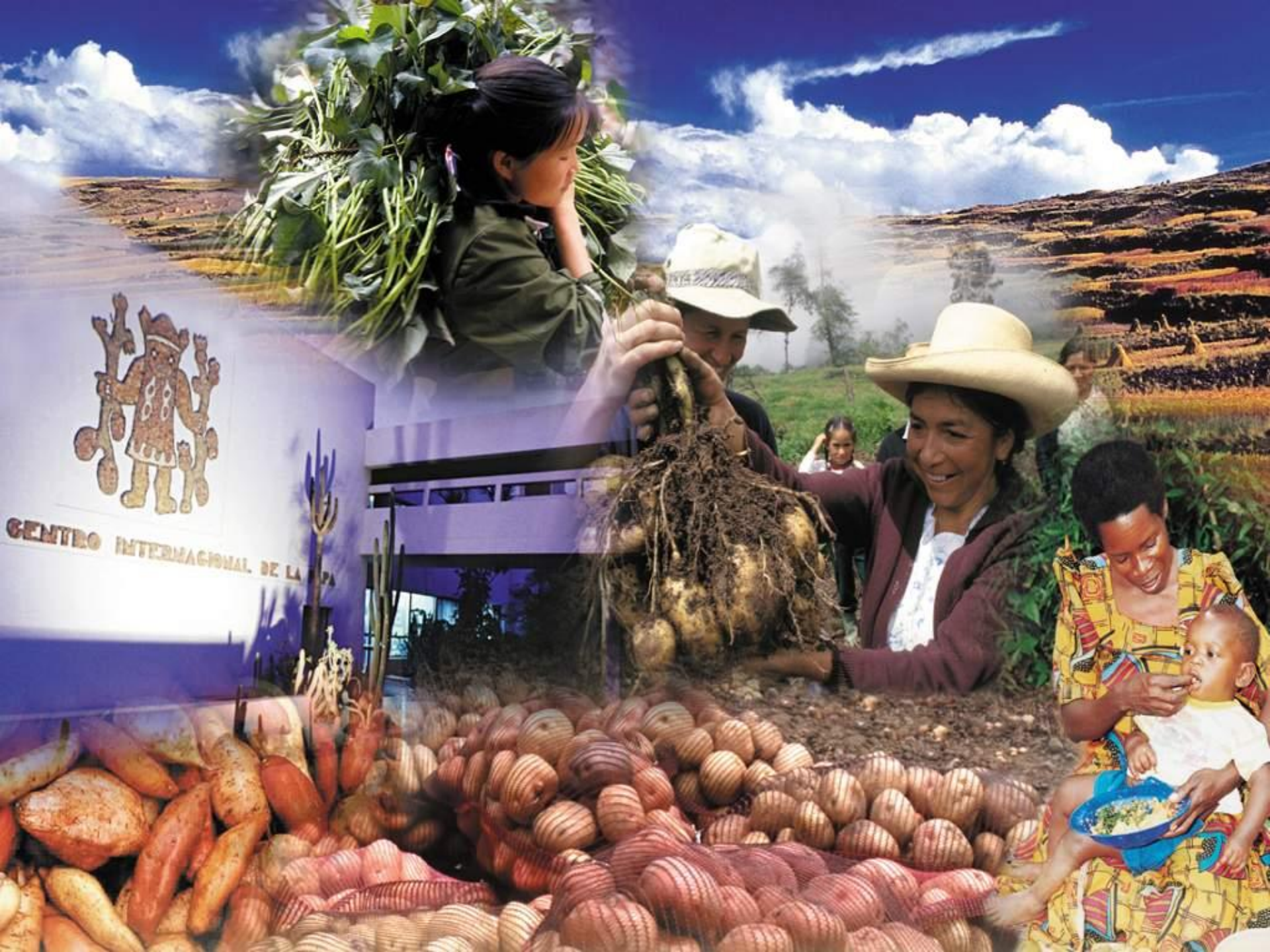
# Business Planning – Summer Intern

- Draft business plan due for CIP management review September 1<sup>st</sup>
- Biz plan (summary info / data) will be provided to Min. of Agriculture & NDRC (National Development Reform Comm) for government funding proposal and approval (expected by October / November 2014)
- Expected components for Biz Plan – see attached Word doc

## Requirements for summer intern:

- Knowledge of business plan basics, Excel, financial analysis
- Good Chinese and English language skills;
- Self-starter / independent problem-solver
- Basic understanding of China culture, history and geography
- Quick learner on basics of our organization, mission and strategy
- Requires contact with Chinese professionals & government organizations
- Supervision by Jim, Gradoville, CCCAP Deputy Director, ND Class of 1976 and member of the Notre Dame Alumni Association Board of Directors





CENTRO INTERNACIONAL DE LA PAPA