



Food and Agriculture
Organization of the
United Nations

POTATOES AND THE SUSTAINABLE AGRICULTURE AND FOOD SYSTEM



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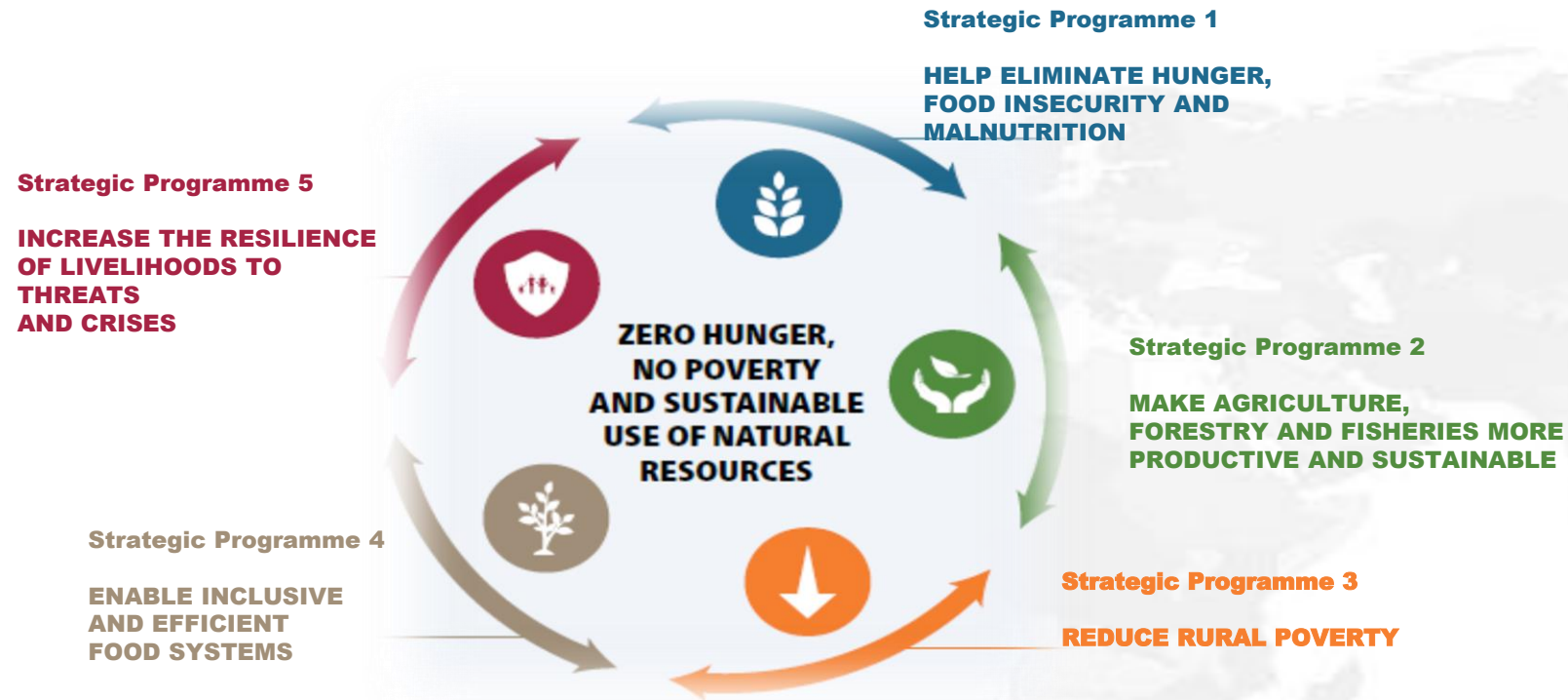
FAO VISION

“ A WORLD FREE FROM HUNGER AND MALNUTRITION, WHERE FOOD AND AGRICULTURE CONTRIBUTE TO IMPROVING THE LIVING STANDARDS OF ALL, ESPECIALLY THE POOREST, IN AN ECONOMICALLY, SOCIALLY AND ENVIRONMENTALLY SUSTAINABLE MANNER” – (FAO, 2013)





THE STRATEGIC FRAMEWORK OF FAO



NUTRITION, CLIMATE CHANGE. GOVERNANCE, GENDER——





MAIN CHALLENGES IN AGRICULTURE AND FOOD SYSTEMS

- **Land degradation**
- **Soil pollution poses a serious threat to agricultural productivity, food safety and human health,**
- Changes in distribution of animal diseases and their vectors.
- Crop transboundary pests and diseases
- Global food systems generate one-third of all human-caused greenhouse gas emissions
- Increase of frequency of extreme events and annual economic costs (USD 50 -100 billion worldwide)
- Worldwide obesity has nearly tripled since 1975. more than 1.9 billion adults aged 18 years and older were overweight. Of these over 650 million adults were obese (WHO, 2016)
- Undernourished people increased from 777 million in 2015 to 815 million in 2016
- 1.3000 million of Food losses and waste

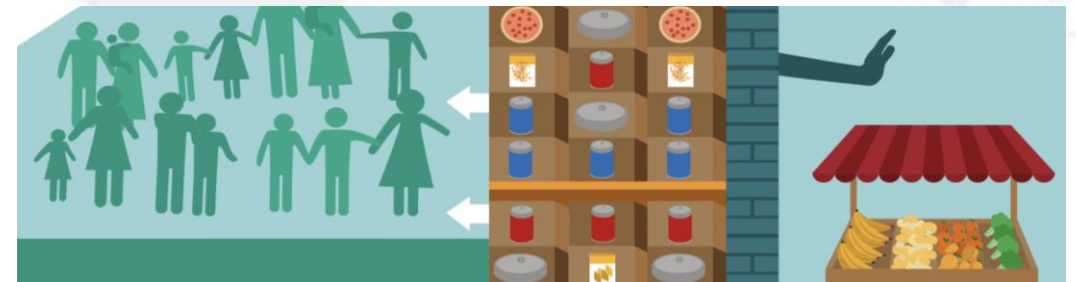


At regional level:

- **Land degradation** is a growing threat to agricultural productivity and ecosystem services
- **30 percent** of total food produced for human consumption in Europe is **largely spoiled**
- **14.3 million adults** still consider themselves to be severely **affected by food insecurity**



Food systems are characterized by more and more vertically integrated supply chains that increasingly demand more capital and scientific knowledge and exclude small producers.



Exclusion of poor consumers... less access to healthy food, area with limited access to fresh, nourishing food .



SUSTAINABLE AGRICULTURE AND FOOD SYSTEM PRINCIPLES

- The FAO Committee on Agriculture recognized in 2016 that effective transition towards sustainable development in agriculture and food requires a common understanding and better dialogue within and across sectors.
- FAO Members have endorsed five principles for sustainability in food and agriculture across the SDGs, across sectors and along value chains

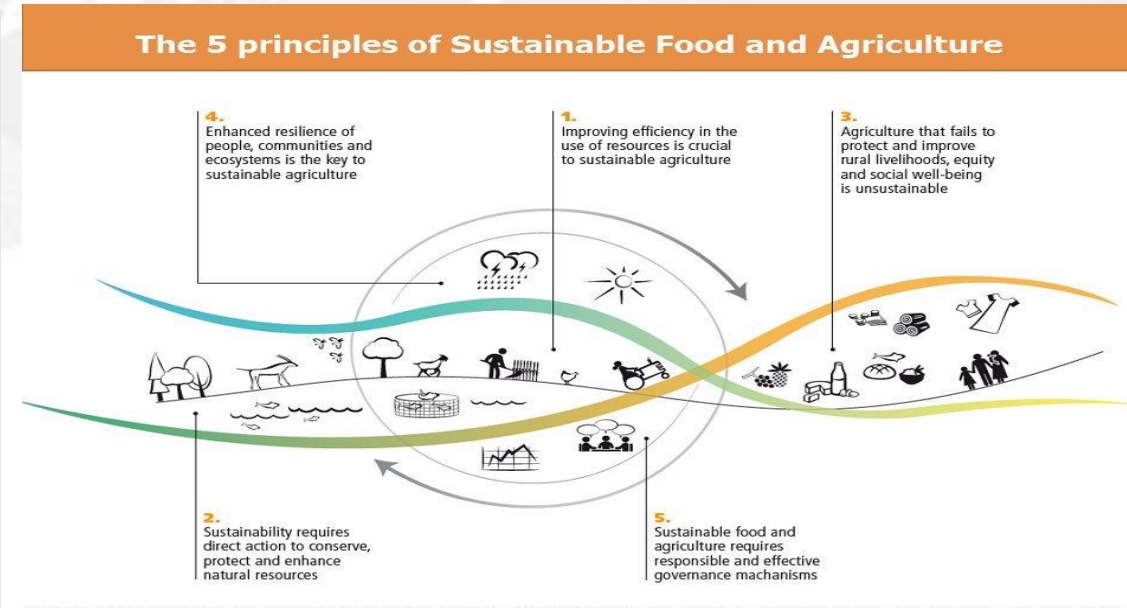
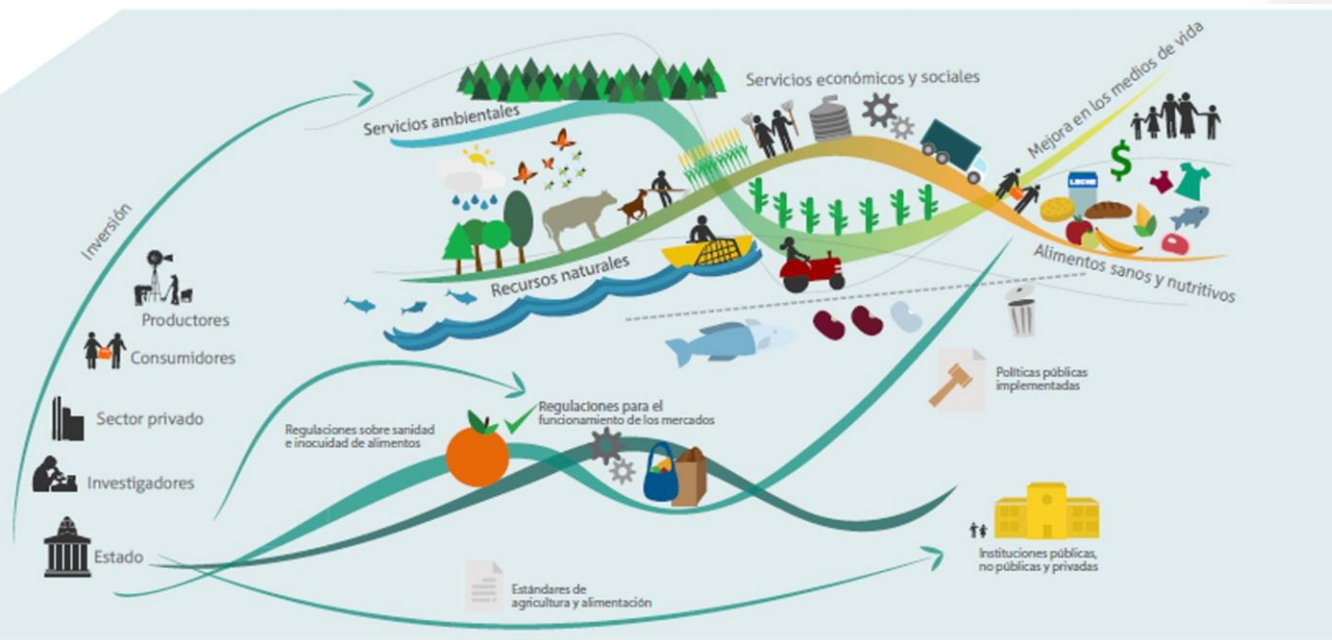
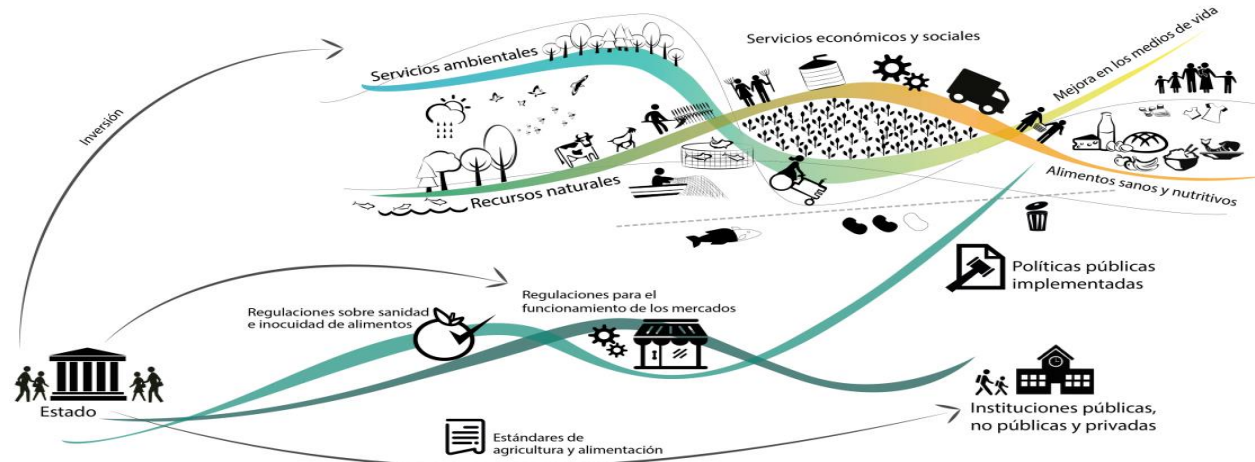


Figure 1. FIVE KEY PRINCIPLES FOR SUSTAINABLE FOOD AND AGRICULTURE (FAO, 2014).



POTATO IN THE GLOBAL AND LOCAL FOOD SYSTEMS



- **THREE MOST IMPORTANT CROP IN THE WORLD**
- **GLOBAL POTATO PRODUCTION HAS GROWN IN THE PAST YEARS, PARTICULAR IN DEVELOPING COUNTRIES**
- **IT IS STAPLE FOOD.**
- **SMALL HOLDERS AND FAMILY FARMING AROUND THE WORLD ARE PART OF THIS SECTOR AND THEIR ECONOMY DEPEND ON IT**
- **TECHNOLOGIES FOR ADAPTATION TO CLIMATE CHANGE**
- **CONTRIBUTE TO FOOD SECURITY, REDUCE POVERTY (DEVELOPING COUNTRIES)**





CHALLENGES AND OPORTUNITIES

IN THE PRODUCTION SUBSISTEM

- THE CLIMATE CHANGE IMPACT ON POTATO PRODUCTION.
- INTENSIVE POTATO CULTIVATION LEADS TO AN INCREASING PEST AND DISEASES PRESSURE, USE OF PESTICIDES.
- EROSION AND SOIL POLLUTION
- GENETIC EROSION SINCE IT USES JUST A FEW VARIATES OUT OF THE NEARLY 3 THOUSAND EXISTING ONES



TO OVER COME THESE..... FAO PROMOTES THE APPLICATION OF AGRECOLOGICAL/ECOSYSTEM APPROACHES: CA, CSA, NUTRITION – SENSITIVE AGRICULTURE AND CROP DIVERSIFICATION, LANDSCAPE AND TERRITORIAL APPROACH....





IN THE TRANSFORMATION, SUB-SYSTEM- ADDED VALUE

TO INVEST IN TECHNOLOGY FOR PRODUCING A WHOLE LINE OF HEALTHY POTATOES-BASED PRODUCTS TAKING INTO CONSIDERATION ITS PROPERTIES AND ADAPTED TO LOCAL TRADITION.

PROMOTE CREATION OF SMALL SCALE ENTERPRISES, COMUNITARY COMPANIES WITH MARKET NICHES ..ACCESS TO LOCAL MARKET.





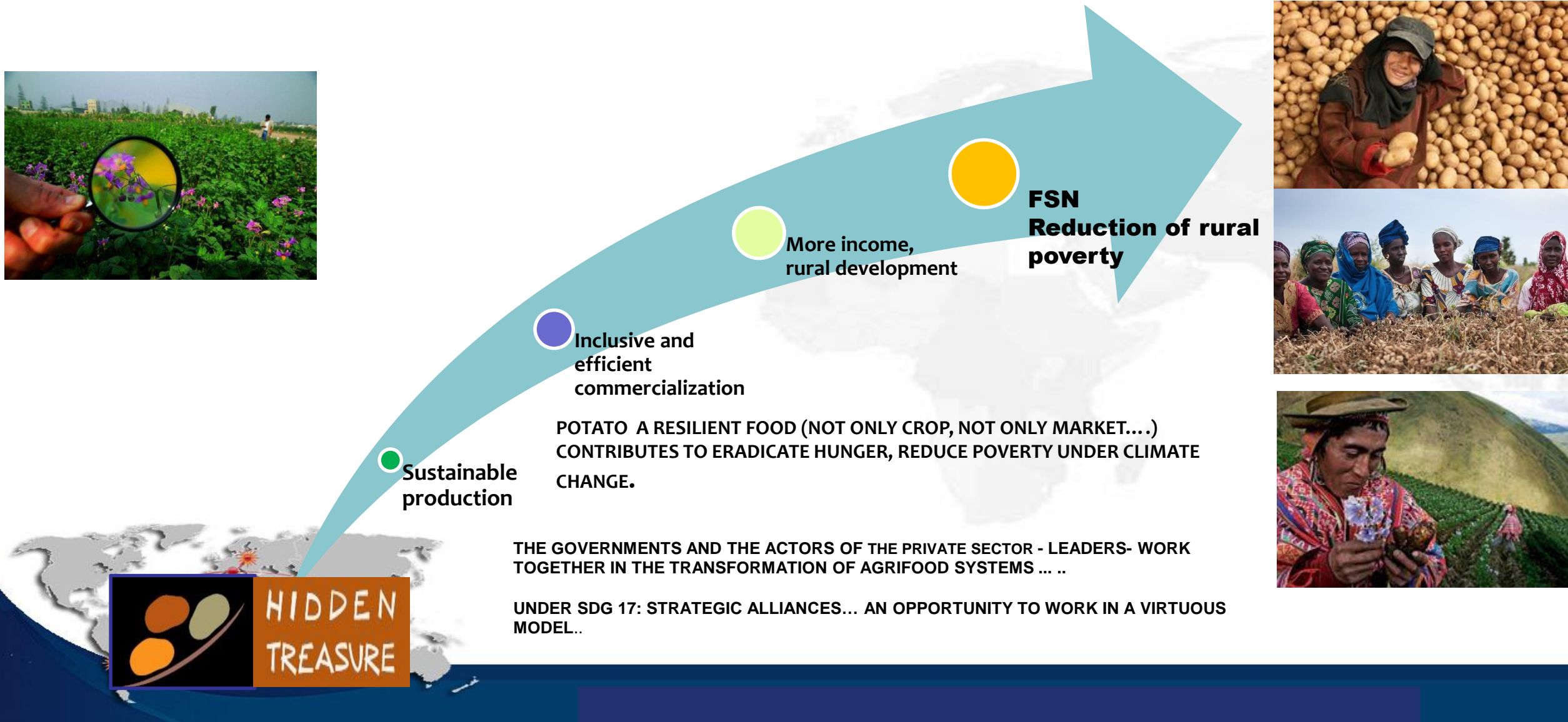
IN THE CONSUMPTION SUB-SYSTEM

- TO DEVELOP STRATEGIES FOR RESPONSIBLE CONSUMPTION AND NUTRITIONAL AWARENESS TO AVOID PUNISHMENT THIS FOOD.
- TO INVOLVE IN THIS PROCESS, THE CHEFS.....





THE POTATO FOR FOOD SECURITY





THANK YOU

