



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

# Building on Quality Infrastructure for Food Safety

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## UNIDO's Food Safety Approach

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# Inclusive and Sustainable Industrial Development

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Introducing the United Nations  
Industrial Development Organization





# UNIDO Facts and Figures



UNIDO was established in **1966** and became a specialized agency of the United Nations in **1985**



UNIDO has **172** Member States



The planned total volume of UNIDO operations for the biennium 2012-2013 amounted to **\$ 609.2 million**

UNIDO employs **693** staff members at Headquarters and other established offices



The value of technical cooperation delivery in 2013 amounted to **\$180.5 million**

The portfolio of projects and programmes in hand reached a new record of **\$ 477.7 million**



**55** field offices with **142** national and international staff members



# Inclusive and Sustainable Industrial Development

A Venn diagram consisting of three overlapping circles. The top circle is dark blue and labeled "Inclusive". The middle circle is medium blue and labeled "Sustainable". The bottom circle is light blue and labeled "Industrial Development". The circles overlap in various combinations, creating a central area where all three concepts intersect.

**Inclusive**

**Sustainable**

**Industrial  
Development**

**No one should be left behind.** We should ensure that no person – regardless of ethnicity, gender, geography, disability, race or other status – is denied universal human rights and basic economic opportunities.

Production processes that are less carbon-intensive can save energy, reduce consumption of non-renewable resources, and minimize greenhouse gas emissions, while also stimulating innovation, technological change, diversification and job creation.

New development approach, which looks at society, economy, industry and the environment as a whole.



# Food Safety and ISID



Taking into account that most workers in food production are female, **social inclusiveness for women** is supported.

Environmental  
Sustainability

Increased food safety contributes to the **reduction of food waste** and thus contributes to **food security**.



By ensuring food safety, food exports can be enhanced and **access global markets**.



Social  
Inclusiveness

Economic  
Competitiveness

ISID

# UNIDO's Food Safety Approach

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# Food Safety Challenges

**Consumer confidence**  
in food safety is  
a growing issue

Food safety scares have **global impact**: quality assurance of food products is a challenge for developing countries

**Markets are becoming  
more stringent**

High **financial losses** due to lack of compliance or lack of capacity to verify compliance, lack of quality assurance of food products hinders participation in global trade markets

**Global Value Chains**  
are governed by Food  
Safety Compliance

Improving conformity with trade standards and international market requirements potentially opens up (global) **business opportunities**

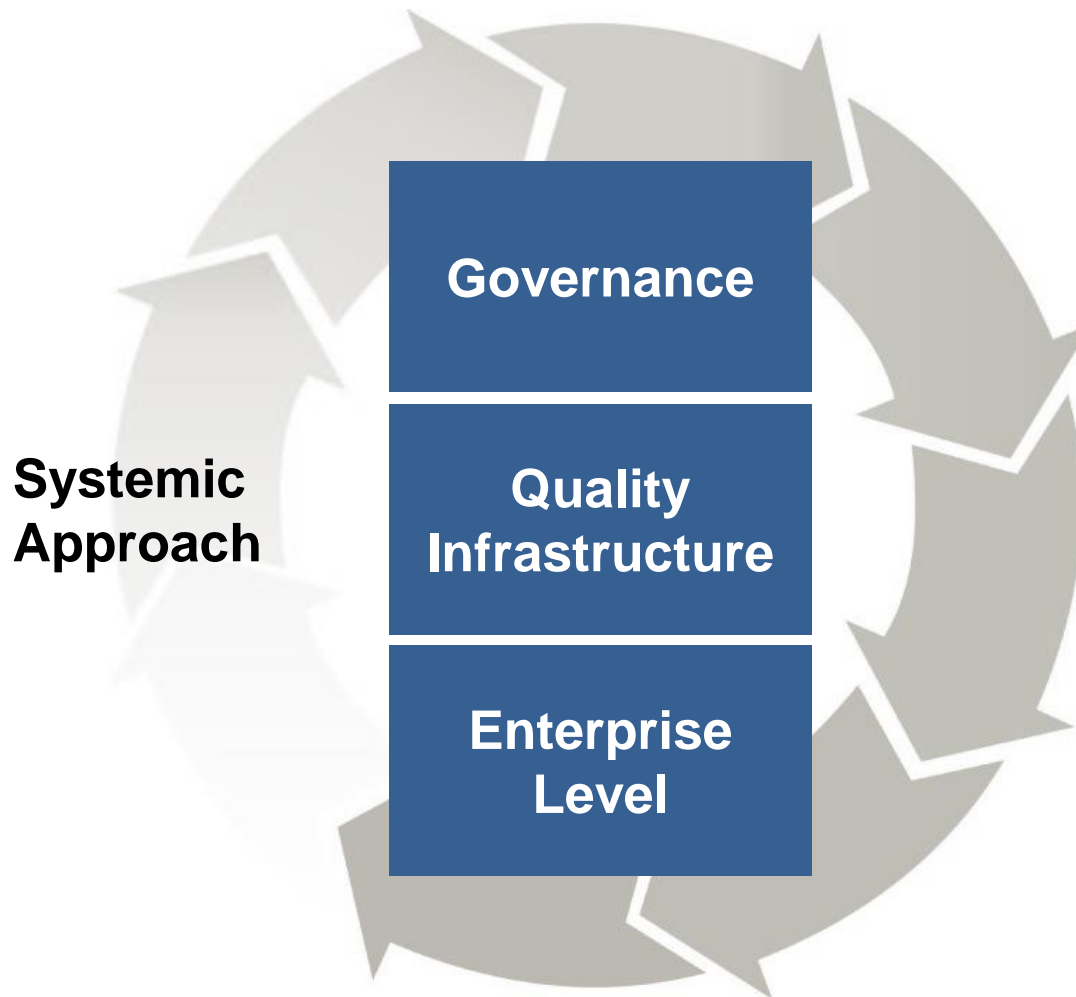
**Reputational risks**  
also for those not  
causing the scares

**Private sector** calling for caution and demonstrating good practice





# UNIDO's Food Safety Approach

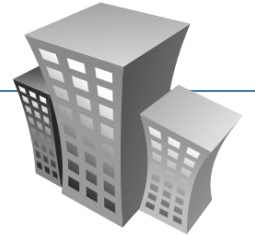


## Considering coherence of all dimensions:

- Align quality infrastructure with food safety regulatory framework
- Improve food safety quality infrastructure services
- Integrate SMEs to global value chains



# UNIDO's Food Safety Approach



## Business

### Better Business leads to Safer Food

Private sector can take a leading role in food safety

## Food Safety

### Safer Food for Better Business

Food Safety control enhances business by reducing risk and increasing consumer confidence



## Public Sector

### Partnering Public and Private Sector

Engaging the private sector and consumers to complement the public effort



# UNIDO's Food Safety Approach

1

**Identifying the Needs**

2

**Tackling Food Safety Challenges  
with Quality Infrastructure**

3

**Promoting Food Safety  
Standards & Schemes**



# UNIDO's Food Safety Approach

1

## Identifying the Needs

Rejection Analysis

Value Chain Analysis

Market Surveys





# Rejection Analysis

## What do import rejections tell us?



UNIDO since 2008 works on rejection analysis as a tool for facilitating better policy decisions

### Focus

- Import rejections by world region
- Reasons for import rejection

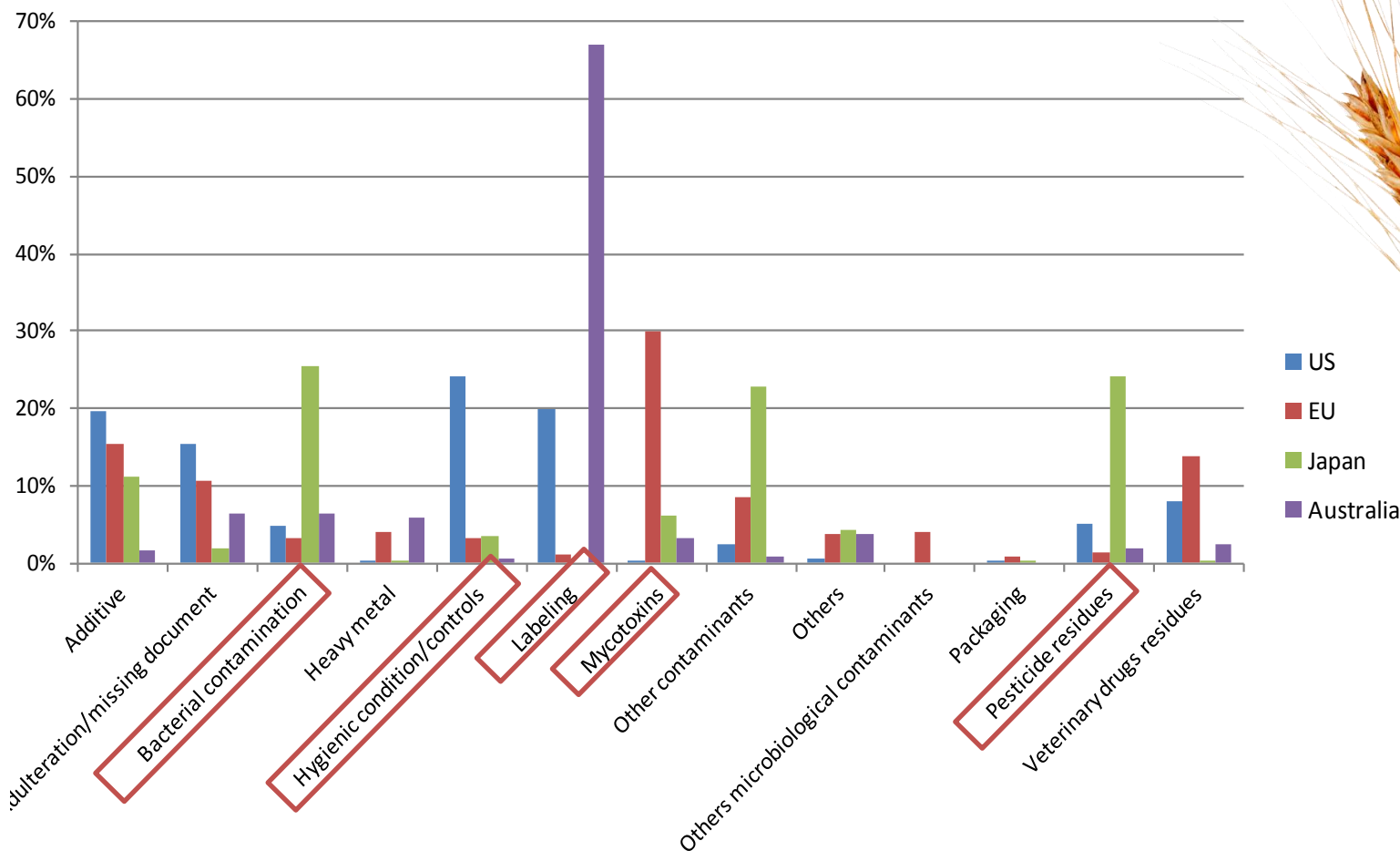
Analysis by commodity, sector such as fish, fruits and vegetables, nuts and seeds

Reasons and rate of rejection varies across markets

Rejections at importing border are a good rough indicator of compliance capacity and for areas where and which improvement is needed

Import rejections have persisted to be a reality for developing countries indicating that exporters continue to struggle to achieve compliance with SPS and TBT requirements in international markets.

# Rejection Analysis: Agri-Food products from China



# Quality Infrastructure related Value Chain Analysis

## What does the Quality Infrastructure related Value Chain Analysis tell us?



TCB provides **support for the development of a sustainable and targeted quality infrastructure** that ensures competent institutions and guarantees that all processes and products along the value chain conform to international standards and regulations.

Through a comprehensive Value Chain Analysis TCB **identifies standardization and testing needs** for each step along the Value Chain.

The Value Chain Analysis allows us to **tackle challenges** in production and help production lines become compliant with international requirements.

Targeted Value Chain Analysis helps **verify compliance** and thus allows producers from developing countries to **participate in global trade**.

# Value Chain Analysis – Trade Capacity Building

Cultivation



Processing



Pulping/  
Washing



Drying



Roasting



Export



Standards

Inspection &  
Certification

Testing /  
Laboratories

Targeted value-chains **improve their quality and export competitiveness** by complying with international standards.

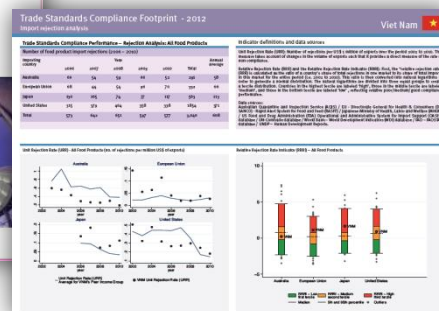
The **national quality system is improved** to provide world class conformity assessment services (standardization, inspection, certification and testing)



# Identifying the Needs – Analytical Work

## Meeting Standards, Winning Markets

- EU DG Sanco, US FDA, Australia AQIS, Japan MHLW
- Border Rejection Analysis
- Trade Standards Compliance Analysis



**More Information:**  
<http://www.unido.org/trade-standardscompliance.html>

# UNIDO's Food Safety Approach

## 2 Tackling Food Safety Challenges with Quality Infrastructure



### Governance

**Align QI with food safety regulatory framework:** EAC, ECOWAS/UEMOA, Asian countries

### Quality Infrastructure

Close to **200 mainly agro-food testing laboratories** (Asia and Africa) have gained international recognition (accreditation)

### Enterprise Level

More than **230 mainly food processing enterprises** (mainly Asia and Africa) have been internationally recognized (certified) for quality and food safety standards

# Improving Quality Infrastructure

## Quality Infrastructure

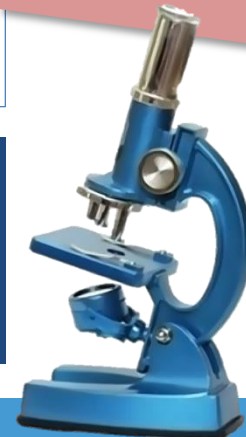
- Strengthening of existing **standardization** bodies
- Strengthening of laboratory capacities for industrial and legal **metrology** capacities
- Establishment or strengthening of **accreditation** bodies and assistance to obtain international recognition

## Food Safety Control Services

- Upgrading the technical competence of **testing** laboratories to achieve international recognition (accreditation)
- Strengthening of **inspection** services
- Strengthening of **certification** capacities

**Close to 200 food testing labs in Asia (and Africa) have gained international recognition!**

**Tested once,  
accepted  
everywhere!**



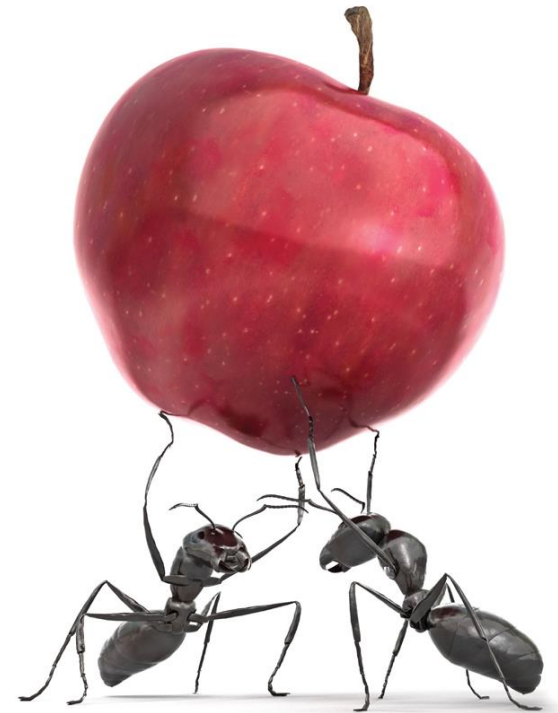
# UNIDO's Food Safety Approach

3

## Promoting Food Safety Standards & Schemes

**Food Safety Standards**  
(HACCP, ISO22000, etc.)

**Food Safety Schemes**  
(CIEH, GFSI, etc.)





# Food Safety Scheme: GFSI Protocol



- GFSI was launched as a non-profit making foundation in 2000, to achieve **harmonization of food safety standards**.
- GFSI chose to go down the route of benchmarking, developing a model that determines equivalency between existing **food safety scheme**.
- In 2008, the GFSI recognized that small and/or less developed businesses would benefit significantly from a **GFSI recognized food safety management scheme**.
- The **GFSI protocol** is a comprehensive step-by-step toolkit that guides small and/or less developed businesses through a **continuous improvement process** in their food safety management systems with the aim of facilitating market access locally and creating mutual acceptance along the supply chain



*PARTNER FOR PROSPERITY*

# Public-Private-Partnership



## AEON at a Glance

**\$65 billion USD** Sales revenue  
**15,008** stores, **222** Shopping Mall  
**29.76 million** AEON Credit Card members  
**\$12 billion USD** e-money transaction

## AEON operations in Malaysia

**\$ 1.4 billion USD** Sales revenue  
(2<sup>nd</sup> largest retailer group in Malaysia)  
**55** stores, operating since **1984**  
**Malaysia is the ASEAN hub** for AEON  
AEON targets to open **100 stores by 2020**

## AEONs approach on Food Safety Policy:

- Fully committed to driving GFSI in Asia
- Driving efficiencies based on GFSI recognized schemes and nurturing developing suppliers through the global markets program
- Completing AEONs Food Chain requirements based on the defined GFSI sectors

UNIDO, in partnership with AEON, have created the **necessary public private partnership** with the core Malaysian Government bodies, establishing a **neutral and sustainable infrastructure model** to be implemented throughout **ASEAN countries**.

# Food Safety related Case Study

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# Ensuring Quality and Sustainability along the Coffee Value Chain

## The Trade Capacity-Building Project for Burundi



Norad





# Setting the Scene



**Land-locked country** with a high potential for agricultural product, coffee being one of them.

**90% of the population** employed in agriculture, accounting for **34,1% of GDP** in 2010.

Coffee, tea and cotton contribute more than **93% of export revenue**, green coffee beans being the most important product.

**Limited capacity of conformity assessment and food safety related services**, limit the competitiveness of the country.

# Background Information



Norad



## Regional Project

### East African Community (EAC) SPS Harmonization Regional Project

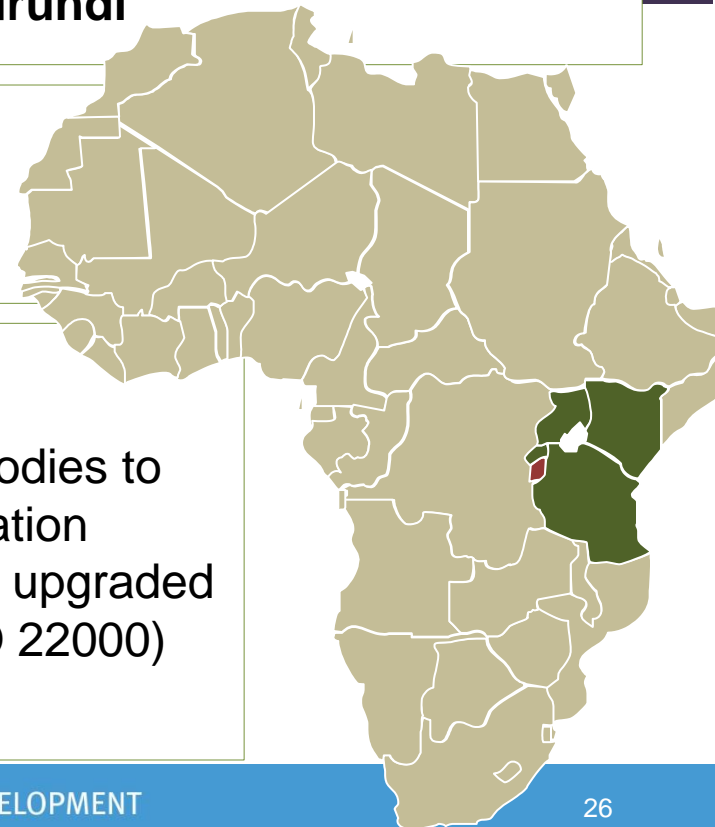
Kenya, Tanzania and Uganda + Rwanda and Burundi

#### Regional Level

SPS Protocol developed to enhance regional harmonization of SPS measures

#### National Level

- Support to national ministries and standards bodies to effectively take part in regional SPS harmonization
- Food chemistry and Micro biology laboratories upgraded
- Food Management System (GHP/HACCP/ISO 22000) introduced in enterprises



# What is the project about?

## Better Quality



**Ensure quality** by enhancing the capacity to comply with sanitary and phytosanitary measures (SPS).

## More Exports



**Improve exports performance** and facilitate the access to regional and international markets.

## What the project does...

Ensuring **Quality and Sustainability** along the **Coffee Value Chain**.

Support for the strengthening of the **National Quality Infrastructure**.





## Key (mid-term) Results

➔ **24 Quality-graders** for coffee selection and tests trained for InterCafé + **60 Association members** trained in food safety.

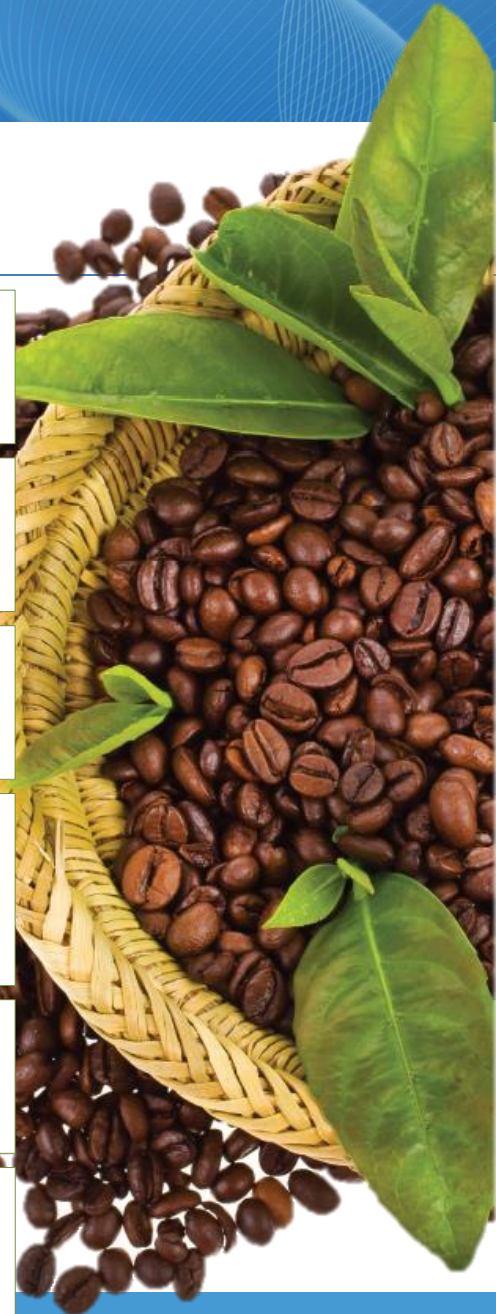
➔ Implementation of a **Quality team in the Regulatory Authority of the Coffee Sector of Burundi (ARFIC)**.

➔ Support to the **Burundian Coffee Association InterCafé** for the organization of the **Cup of Excellence** (2013, 2014).

➔ Establishing the **Burundian Coffee Consortium (BUCOCO)**, support for the participation in the **11<sup>th</sup> African Fine Coffee Conference & Exhibition** (48 containers of coffee sold).

➔ **79 inspectors** trained in market surveillance + **77 technicians** sensitized and trained.

➔ **6 Laboratories** supported for the detection of microbiological, chemical and pesticide contaminants detection. Including organoleptic test for the coffee sector.



# Impact of the Project

**1** The project has helped a number of farmers and cooperatives to obtain **significant price premiums** for their coffee.

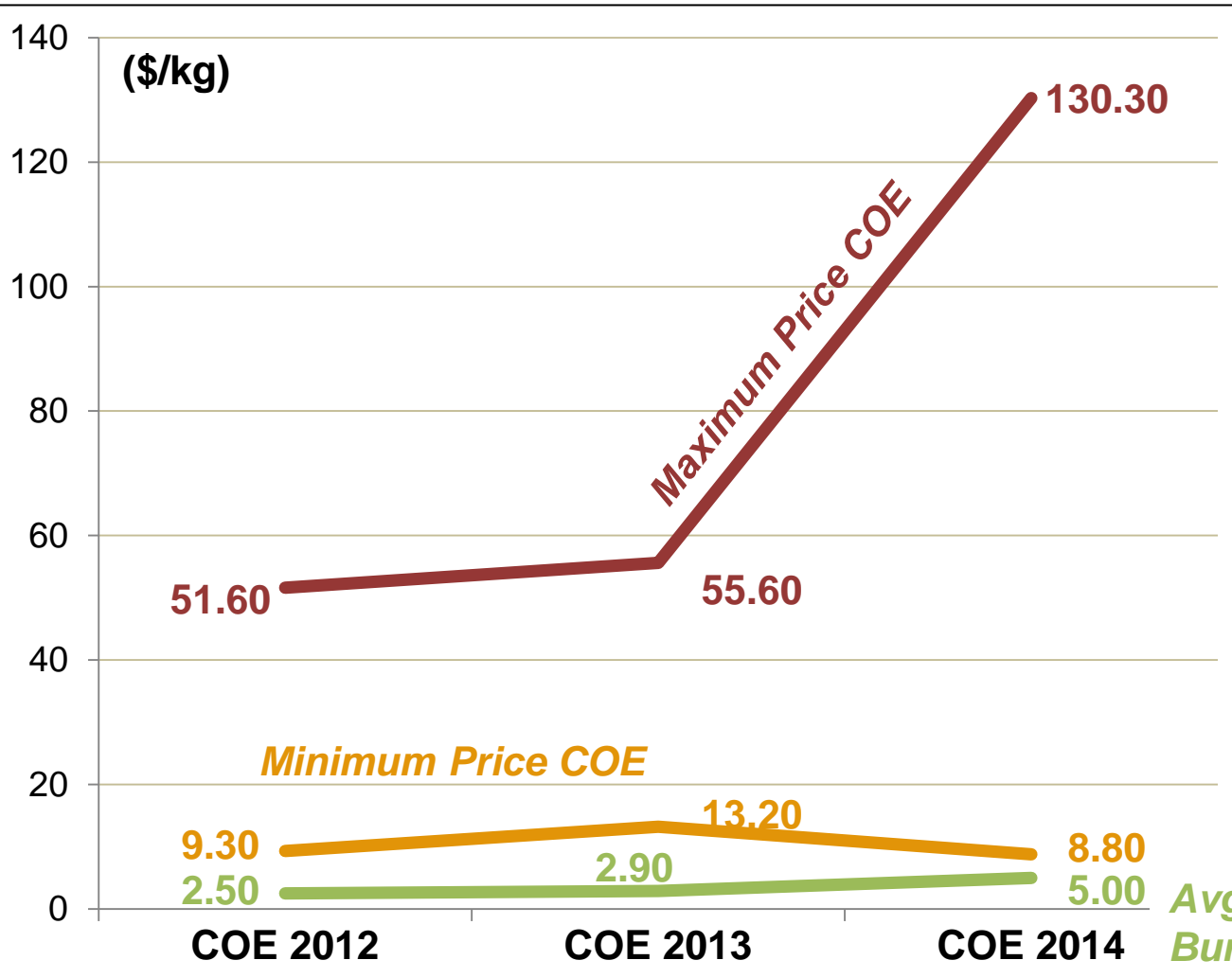
**2** The project has helped to secure more buyers as well as **awareness of the key private standards and the requirements for meeting these standards** and potential gains in terms of price premiums.



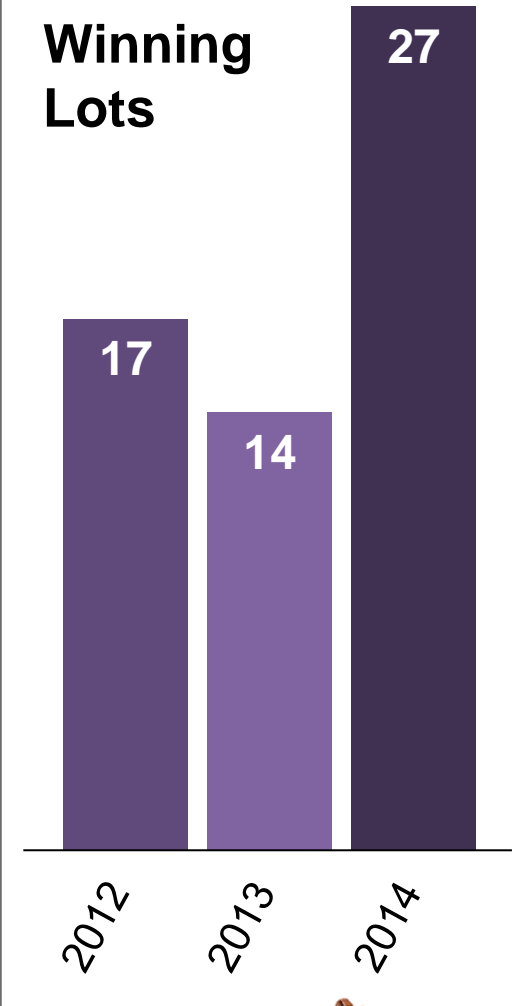




# The Cup Of Excellence (COE)



## Winning Lots





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*Merci.*



INCLUSIVE AND SUSTAINABLE INDUSTRIAL DEVELOPMENT