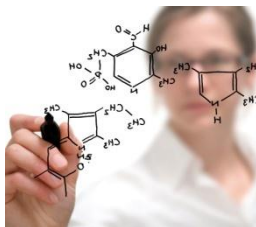




Institute of Food Safety,  
Animal Health and Environment

Director

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## Fields of competence

- Food safety, quality and technologies
- Animal health, infectious diseases (zoonoses) and epidemiology
- Public health and environmental health
- Fisheries, fish resources and fish health
- Aquaculture



# Food Safety vs. Food Security

## Food Safety

**assurance that food will not cause harm to the consumer** when it is prepared and/or eaten according to its intended use.

*(Codex Alimentarius, Food Hygiene, Basic Texts, 2003)*

is a scientific discipline **describing handling, preparation, and storage of food in ways that prevent foodborne illness**. This includes a number of routines that should be followed to avoid potentially severe health hazards.

*(Wikipedia.org)*

## Food Security

refers to the **availability of food** and one's access to it

*(Wikipedia.org)*

defined as “when all people at all times have access to **sufficient**, safe, nutritious food to maintain a healthy and active life”

*(WHO, The World Food Summit, 1996)*

is built on three pillars:

**Food availability**: sufficient quantities of food available on a consistent basis.

**Food access**: having sufficient resources to obtain appropriate foods for a nutritious diet.

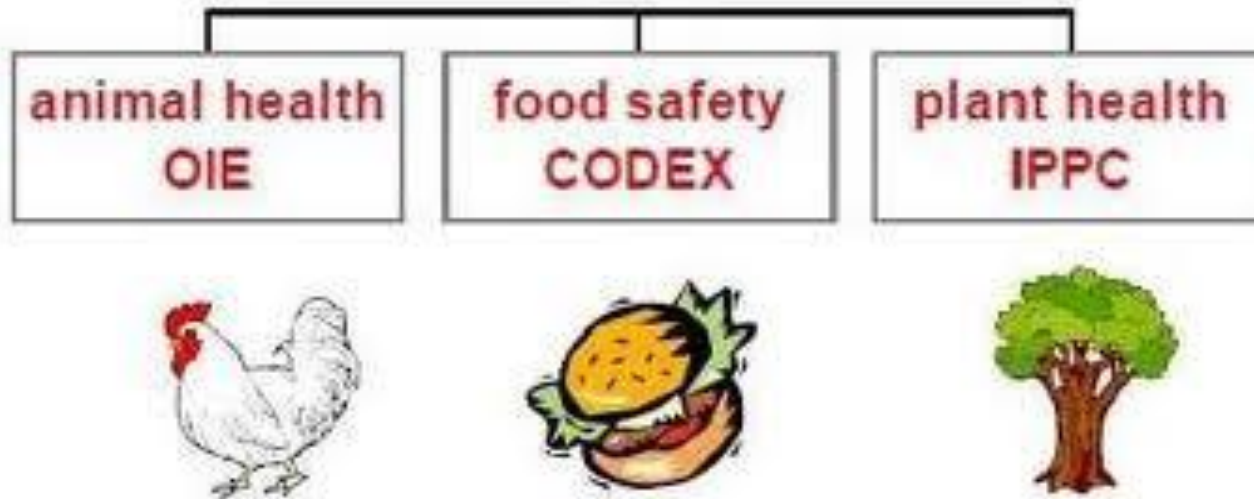
**Food use**: appropriate use based on knowledge of basic nutrition and care, as well as adequate water and sanitation.

# Institutional framework related to the standards related to food, food safety, public and animal health:

- World Trade Organization (WTO)
- World Health Organization (WHO)
- Food and Agriculture Organization (FAO)



- At the sector level, the international organizations developing “standards” (incl. standards, guidelines and related texts) are:
  - World Organization for Animal Health (OIE)
  - Codex Alimentarius Commission (CAC)
  - “New” formation by OIE in respect of **food standards** by:
    - Animal Production Food Safety Working Group (APFS WG)



CODEX ALIMENTARIUS - Windows Internet Explorer

http://www.codexalimentarius.net/web/index\_en.jsp

powered by YAHOO! SEARCH

Google Codex Alimentarius

FAO/WHO Food Standards

ENGLISH | FRANÇAIS | ESPAÑOL

# CODEX alimentarius

ABOUT CODEX MEETINGS AND EVENTS OFFICIAL STANDARDS

Welcome

RELATED CODEX LINKS

- JECFA
- JMPR
- JEMRA
- Biotech assessment

The Codex Alimentarius Commission was created in 1963 by FAO and WHO to develop food standards, guidelines and related texts such as codes of practice under the Joint FAO/WHO Food Standards Programme. The main purposes of this Programme are protecting health of the consumers and ensuring fair trade practices in the food trade, and promoting coordination of all food standards work undertaken by international governmental and non-governmental organizations.

OIE - World organisation for animal health - Windows Internet Explorer

http://www.oie.int/eng/en\_index.htm

powered by YAHOO! SEARCH

Google Codex Alimentarius

OIE - World organisation for animal health

Organisation Mondiale de la Santé Animale

World Organisation for Animal Health

Organización Mundial de Sanidad Animal

## NEWS

### Codex Trust Fund applications for 2011

Codex Trust Fund applications for 2011 are now open. Eligible countries should submit their applications no later than 31 October 2010. For full information please go to the Codex Trust Fund web site. Should you have any queries please contact the Trust Fund secretariat: [codextrustfund@who.int](mailto:codextrustfund@who.int)

- Application procedure
- Eligible countries

### CAC33 report

The report of the 33<sup>rd</sup> Session of the Codex Alimentarius Commission in English

## Alerts - Disease Information

[Iza \(poultry\) in Chinese Taipei - Bluetongue in Spain - Myxomatosis in Mexico - Foot and mouth disease in China](#)

[Latest news on animal diseases](#)

[Update on avian influenza in animals](#)

[World Animal Health Information Database](#)

## Highlights

**24/09/10** Veterinary controls must be enhanced to control the spread of animal diseases including at border and importation checkpoint controls

**02/09/10** Links between animal production systems, climate change and emerging diseases

**09/08/10** Rabies continues to kill in Africa and Asia

[previous press releases ...](#)

## OIE Conferences

[First OIE Global Conference on Veterinary Legislation](#)  
Djerba (Tunisia), 7-9 December 2010

## Editorial from the Director General

**The strategies and priorities long advocated by the OIE prove their effectiveness**

The complexity of disease emergencies in a globalised world calls for the identification of effective strategies, based on both science and proven practical experience, to reduce future threats. The recent 2009 H1N1 pandemic influenza crisis has shown how crucial it is to address persistent global threats at the interface between humans, animals and ecosystems.

## OIE Publications

[Online Bookshop](#)

[Bulletins online](#)

[The OIE and its network of excellence](#)

[Veterinary medicinal products](#)

## Scientific and Technical Review

Most recent issues:

- [Invasive species - Part 2: concrete examples, 29 \(2\), August 2010](#)
- [Invasive species - Part 1: general aspects and biodiversity, 29 \(1\), April 2010](#)
- [Access to other issues](#)

## Media Resources

[Access media resources](#)

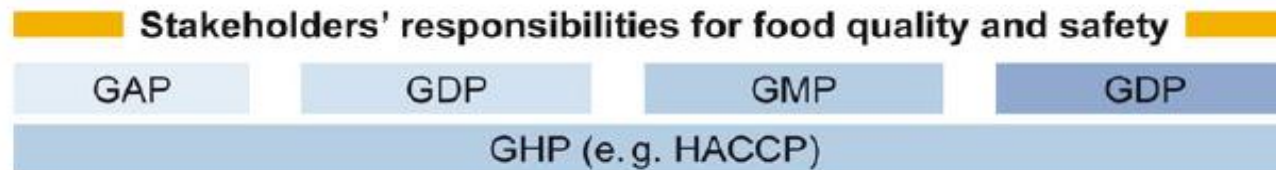
Internet | Protected Mode: On

8:46

- Collaboration between WTO and the Codex Alimentarius concerns the use of **international food safety standards** in the context of the Sanitary Phytosanitary Agreement (SPS), which states that:
  - “to harmonize sanitary and phytosanitary measures on as wide a basis as possible, Members shall base their sanitary or phytosanitary measures on international standards, guidelines or recommendations”.
- The Agreement names the joint **FAO/WHO Codex Alimentarius as the relevant standard-setting organization** for food safety.



“fork to farm approach”!?



GAP	Good Agricultural Practices
GDP	Good Distribution Practices
GMP	Good Manufacturing Practices
GHP	Good Hygiene Practices
HACCP	Hazard Analysis Critical Control Point

The Food Supply Chain and Operators' responsibility for food quality and safety

# EU Food Safety legislation framework (example)

Farmers, food producers (FBO's)	Competent Authority
EU Food Law- <b>Reg. 178/2002</b>	
Hygiene of Foodstuffs- <b>Reg. 852/2004</b>	Official Food and Feed controls <b>Reg. 882/2004</b>
Hygiene rules for foods of animal origin <b>Reg. 853/2004</b>	Official control of foods of animal origin (including meat inspection) <b>Reg. 854/2004</b>
Animal Feed Hygiene <b>Reg. 183/2005</b>	
Microbiological criteria for foods <b>Reg 2073/2005</b>	

# Elements of the modern standards for ‘food safety environment’

- **Risk analysis** (risk-based approaches in elaboration of international standards)
- **Assessment and management of hazards and risks** (all foodborne hazards in terms of risks to human health is an essential food safety activity and **core component of HACCP**)
- **‘Production-to-consumption’ approach, f.ex.:**
  - Codex General Principles of Food Hygiene
  - Code of Hygienic Practice for Meat (CAC/RCP 58-2005)
    - Identifies a number of generic segments in the food chain (can be used as a template in the elaboration of standards for veterinary involvement in meat hygiene activities)

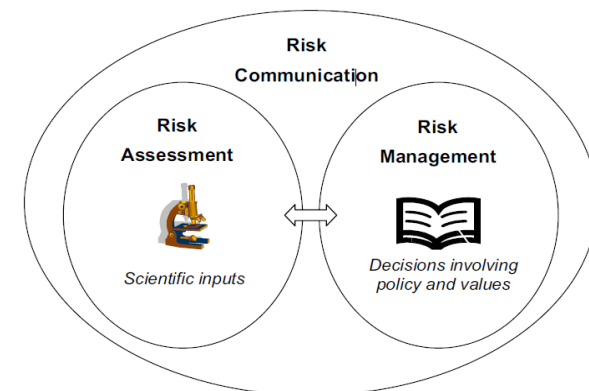
# Elements of the modern standards for 'food safety environment'

## – 'Production-to-consumption' approach should include:

- Monitoring and surveillance at the farm level;
- Monitoring and risk management of the veterinary drugs, incl. antimicrobial resistance;
- Exchange of monitoring information with all interested parties;
- Animal identification systems and traceability of animal products;
- Recognition of the competence of food safety authorities in exporting countries
- Certification and official assurances and other

## – Risk assessment and risk management:

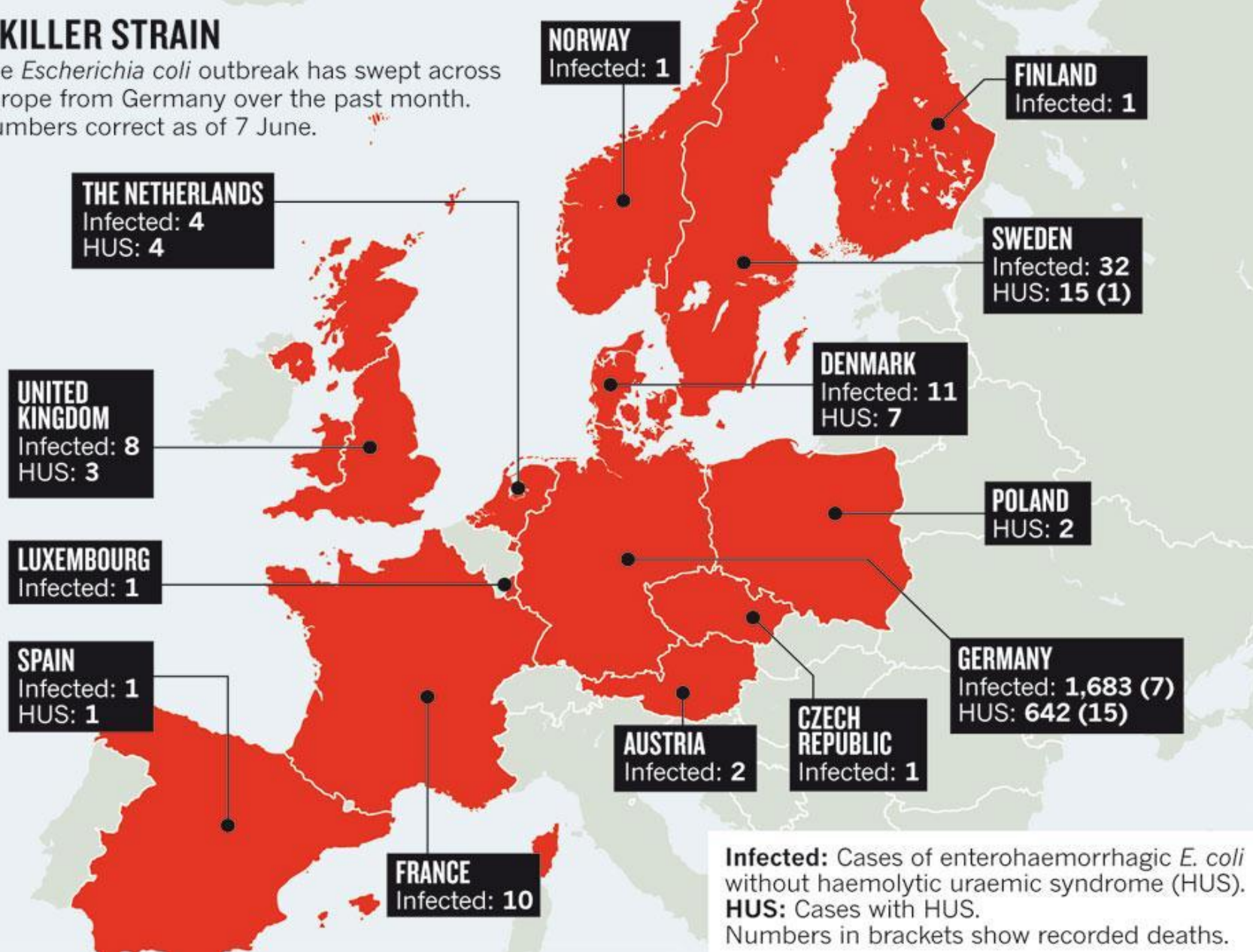
- Food-borne hazards to human health
- Animal / plant health hazards





## A KILLER STRAIN

The *Escherichia coli* outbreak has swept across Europe from Germany over the past month. Numbers correct as of 7 June.



[www.ecdc.org](http://www.ecdc.org)

## Concluding remarks

- **Appropriate animal/ plant health status and compliance** with an International food safety standards are essential “pre-requisites” to ensure efficient international food trade
- **‘Production-to-consumption’, risk-based approach** to food control demands integrated involvement throughout the food chain
- **Effective food safety management system** should be in place to facilitate international trade of food and food stuffs



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