

FOOD SAFETY

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- **Basic food safety concepts**
- **Current safe food challenges in Thailand and ASEAN**
- **Introduction to Codex Alimentarius Commission**



Basic food safety concepts



Situation on Food Safety

US meat recalls rise 83% since 2013

By Aidan Fortune

18-Jan-2019 - Last updated on 21-Jan-2019 at 08:41 GMT



Product recalls involving meat in the US have grown 83% since 2013

Food fraud and illicit trade 'holding back progress' on the SGDs

By Katy Askew

22-Jul-2019 - Last updated on 22-Jul-2019 at 19:31 GMT



POST A COMMENT

US E.coli outbreak linked to bison producer

By Aidan Fortune

8-Jul-2019 - Last updated on 18-Jul-2019 at 13:35 GMT



POST A COMMENT



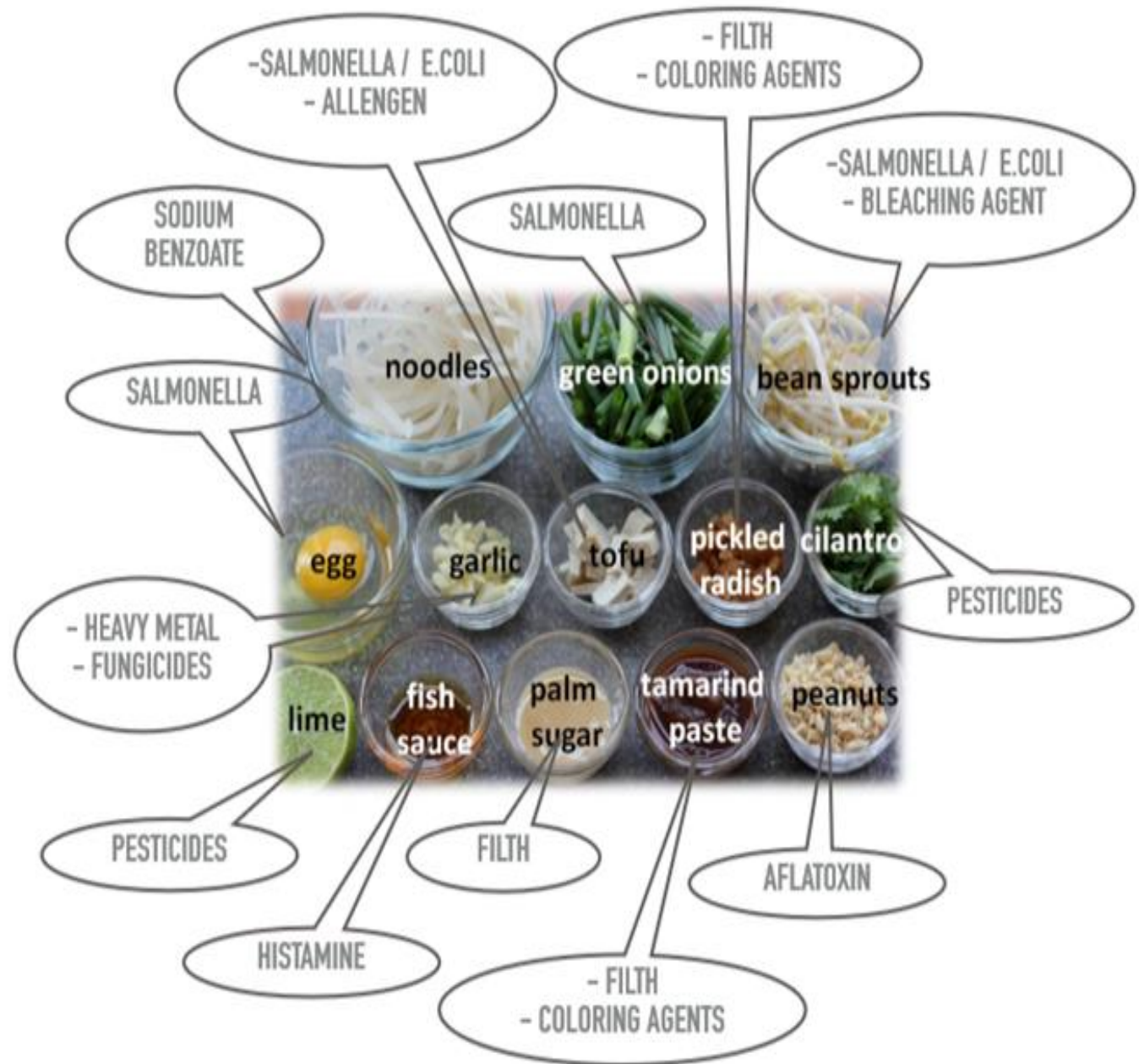
An outbreak of E.coli in the US has been linked to a Canadian bison producer



Smuggling and food fraud slow progress towards achieving the SGDs
©iStock/rmbarricarte

FOOD HAZARDS

agent or condition of food with potential to cause harm of an adverse health affect when food is eaten



Key Principle for Achieving Food Safety Objectives

- Integrated “farm- to- Table” approach and enhanced coordination and management in Food control
- Introduction of preventive measures throughout the food chain (GAPs,GHPs,GMPs,HACCP)
- Transparency of standard and Procedures
- Scientific Basis for standards and controls
- Traceability
- Application of risk analysis and risk based system



From Farm To Table



Farm



Distribution



Market



Transport



Consumer



Processing



Packaging

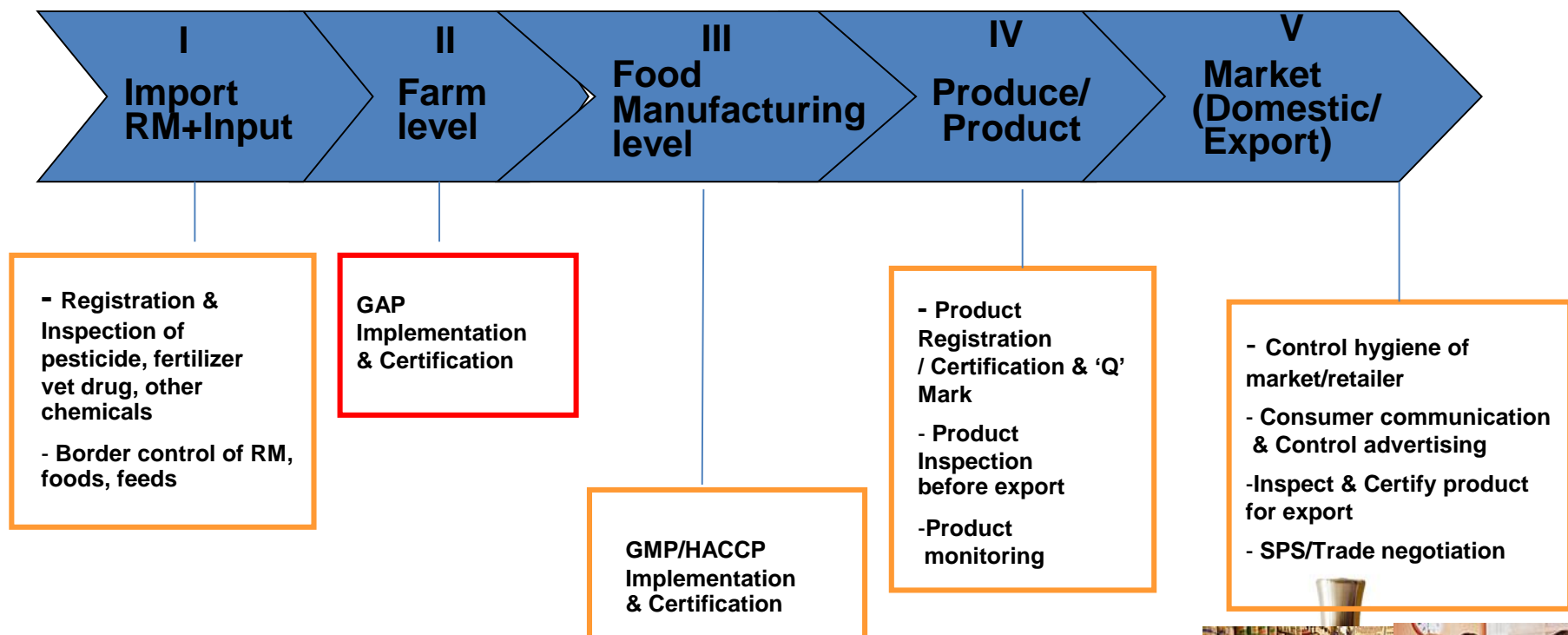
Traceability

Current safe food challenges in Thailand



Road Map of Food safety

← Food safety standards →



National Agencies in charge of Food control

Ministry of Agriculture and
Cooperatives:
Production based



- Food production, mainly primary production (safety + quality)
- Standard of food in trade, mainly export
- Food security



Ministry of Public Health:
Health based



- Consumer protection (safety + quality)
- Some parts of food production related to consumer protection
- Food import
- Domestic market including food service



Food Act 1979

- Regulated by Ministry of Public Health (MOPH), Food and Drug Administration (FDA)
- Registration of food establishments
- Establish regulations on specific foods
- Control of food sold domestically or imported foods
- Control of food labelling and food advertising



Agricultural Standards Act 2008

- Effective on 20 August 2008
- The Agricultural Standards Committee is a statutory body in charge of policy
- Enforced by the National Bureau of Agricultural Commodity and Food Standards (ACFS) , Ministry of Agriculture and Cooperative (MOAC)



Agricultural Standards Act 2008

2 Types of Standards

Mandatory standards :



- license required for production, export or import
- require inspection/certification by approved CB

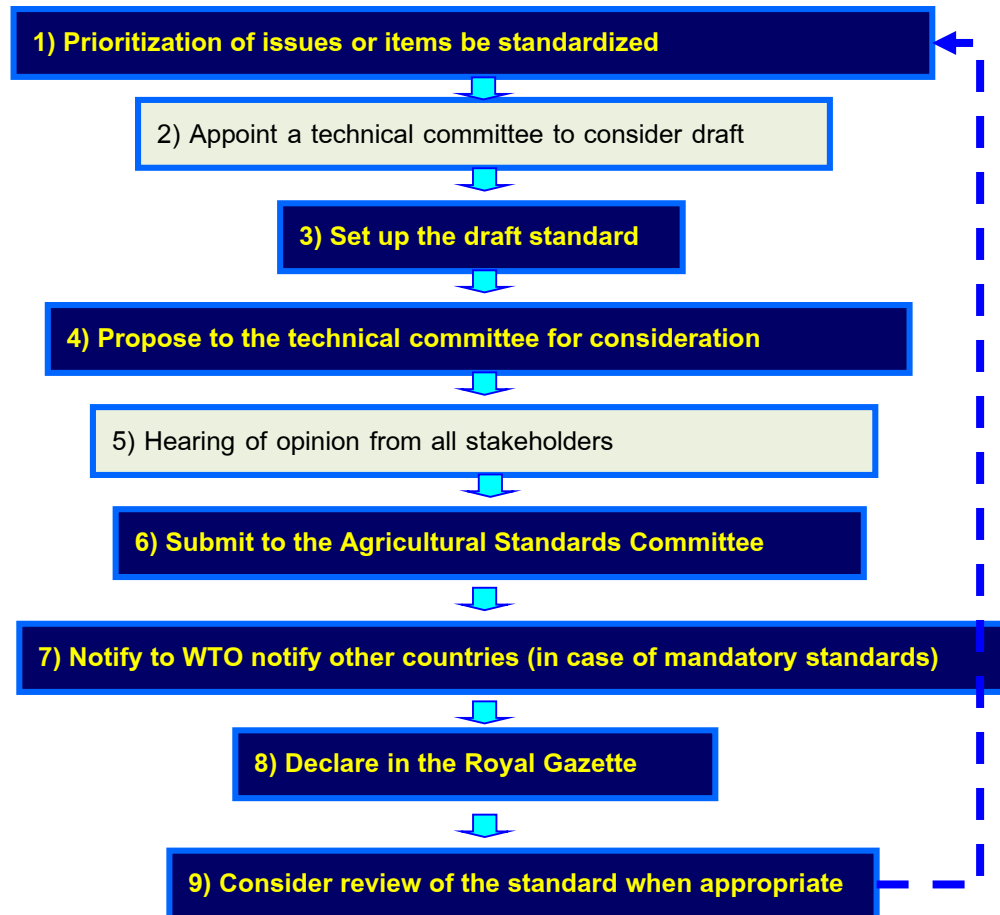
Voluntary standards :



- license not required
- inspection/certification on voluntary basis



Elaboration of standard



Thai Agricultural Standards



Commodity Standards

- cover **both safety and qualifications of products** that consumers need or minimum qualification of basic agriculture commodities.



System standards

- the criteria to assess and certify **manufacturer's practices** from farms to packing houses or factories

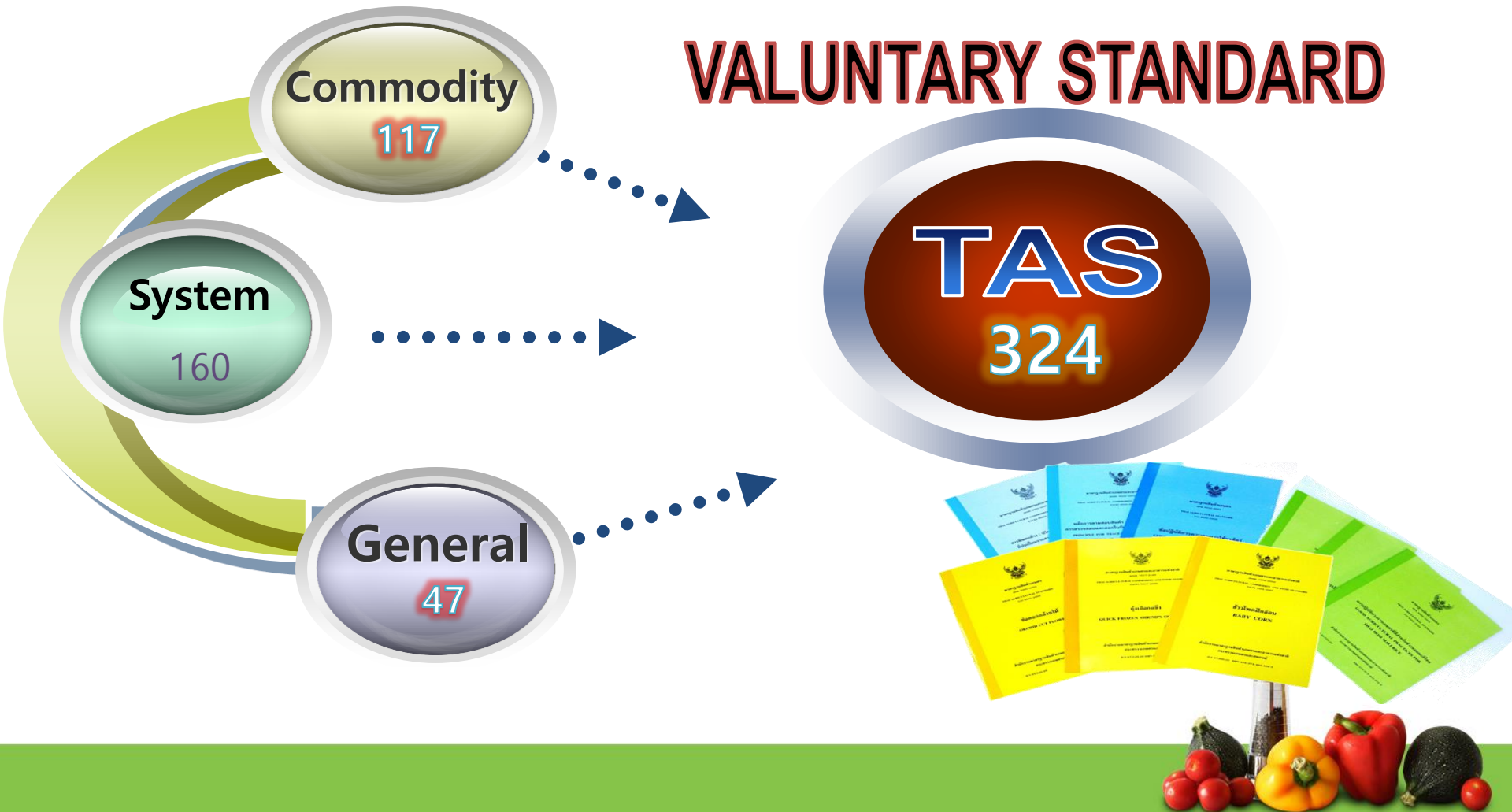


General safety standards

- **safety and sanitation** of animals and plants, which are imposed on agriculture commodities and all kinds of food.



Thai Agricultural Standard



Thai Agricultural Standard - **Mandatory Standard**



Dried Peanut: ML for Aflatoxin



GFP for SO₂ Fumigation on Fresh Fruits



GMP for Milk Collecting Center



GAqP for Hatchery of Disease free
Pacific White Shrimp



Code of Practice for Mushroom Culture



GMP for Frozen Durian



Standard for Food Chain



Farm

- GAP for Food Crop (TAS 9001-2013)



**Processor /
Factory**

- GMP for Packing house of fresh fruits & veg. (TAS 9035-2010)
- GMP for Ready-to eat fresh pre-cut fruits & veg. (TAS 9039-2013)



Commodity

- Durian (TAS 3-2013)
- Pumelo (TAS 13-2007)
- Guava (TAS 16-2010)

Pesticide residues : MRL (TAS 9002) / Pesticide residues : EMRL (TAS 9003)



MOAC : Roles on Food Safety Standardization



Fruits/Veg

Livestock

Fisheries

Standard setting

ACFS

Promotion of standard
compliance

Dept. Agri. Extension /
Rice Dept.

Dept.
Livestock

Dept.
Fisheries

Certification

Dept. Agriculture /
Rice Dept/QSDS

Dept. Livestock

Dept. Fisheries

Accreditation of certification bodies

ACFS

Q mark



นฐ AA-BBBB-CC-DDD-EEEEEE XXX

Performer of Conformity Assessment	Assured Thai Agricultural Standard(s)-TAS	Certificant Name			Production Standard Code
		Province Code	Product Code	Certified Farm Identification No.	
นฐ AA	BBBB	CC	DDD	EEEEEE	XXX

QR Trace

1 Sources

- Product Name
- Brand
- Product Lot
- Address
- Location of Farm
- Grower

2 Production Process

- Factory
- Manufacturer
- Material Lot
- Certified Standard
- Certified Standard No

3 Traceability QR-Code

ข้อมูลผลิตภัณฑ์/Product Information

ชื่อสินค้า/Product Name:
Mango

ผลิตภัณฑ์/Brand:
Mango
ฟาร์มฟาร์ม

ล็อตสินค้า/Product Lot:
FG620703PD04

โรงงาน/Manufacturer:
Plant ACFS
ฟาร์มฟาร์ม

ที่อยู่/Address:
50 Bangkok, Thailand 10900
ฟาร์มฟาร์ม

แหล่งผลิต/Farm

ข้อมูลแหล่งผลิต/Farm Information:
Sornchai Farm
ฟาร์มฟาร์ม

เกษตรกร/Grower
Sornchai Manru
ฟาร์มฟาร์ม

ที่อยู่/Address:
Chachoengsao

ล็อตวัตถุดิบ/Material Lot
620703C01

มาตรฐานที่ได้รับรับรอง/Certified Standard:
GAP
ฟาร์มฟาร์ม

หมายเลขใบรับรอง/Certified Standard No:
AC 03-02-1581-1152

DGTFarm

“New Dimension Online of Thai Agricultural Products”

Modern Business Matching Where Thai Farmers Meet Buyers Online.



Sign up



Shopping



Trade
Matching

Online Market Website

www.dgtfarm.com



Organic and Green Market

is where organic certified products can be found.



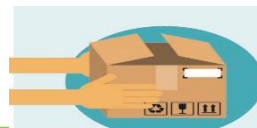
Collaborative Farm and GAP Market

is where produces and products from GAP certified farms or collaborative farms can be found.



QR Trace Product Market

is the market to find farm products with product traceability using QR code.



delivery

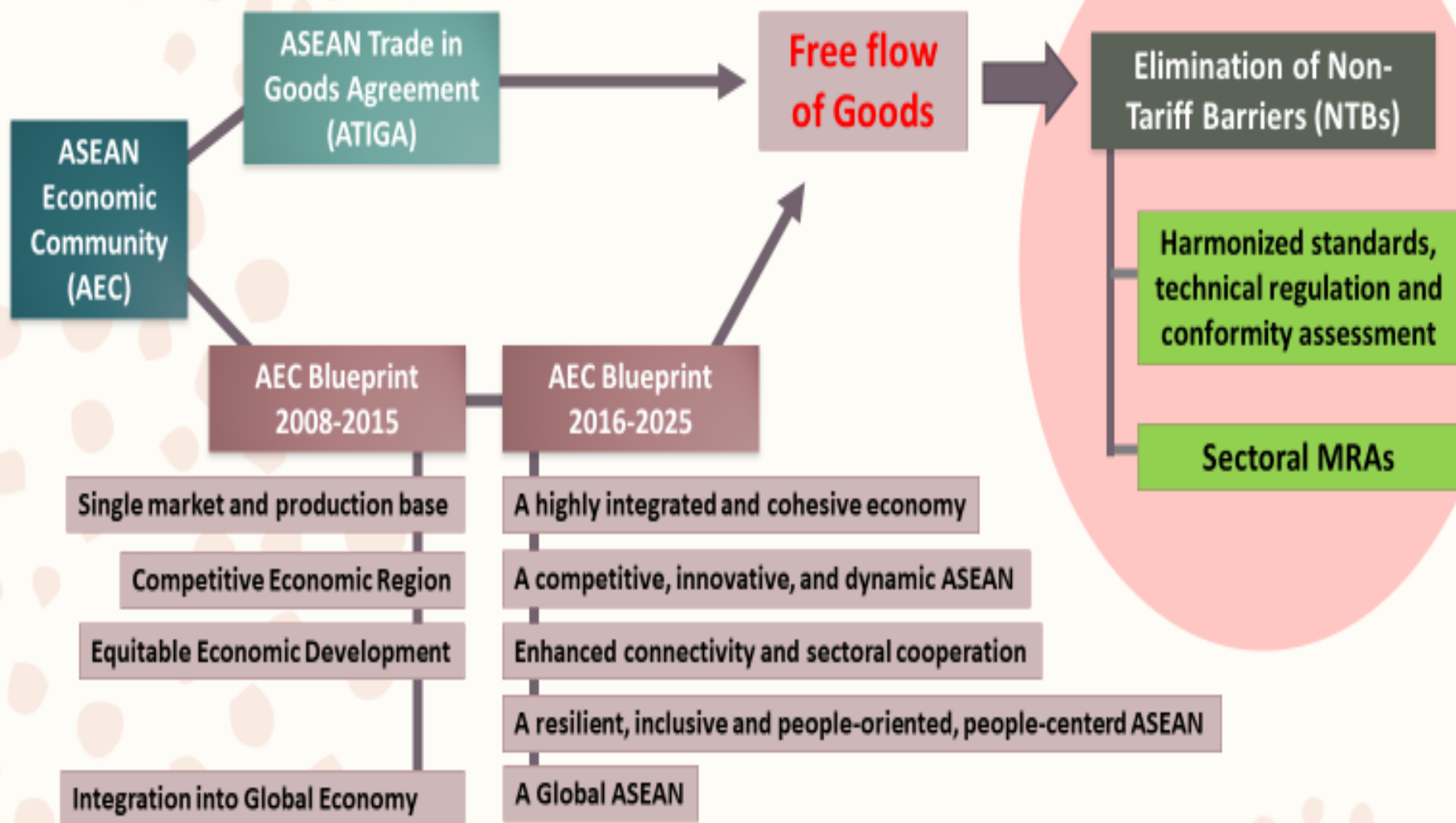


Receive product

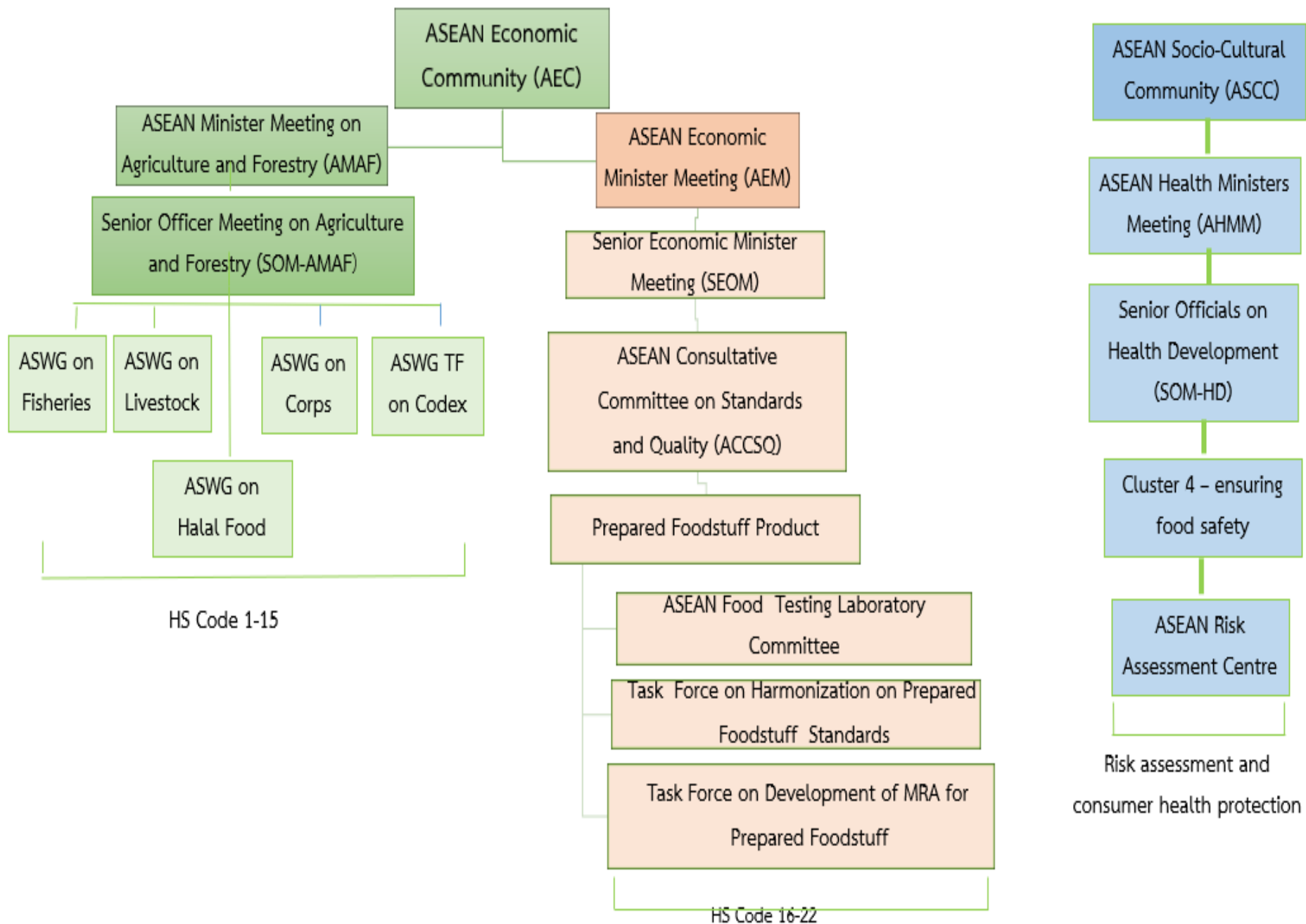
Current safe food challenges in ASEAN



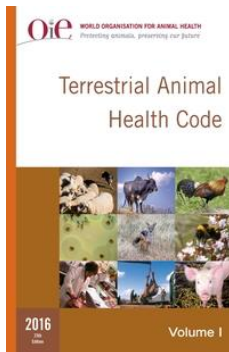
ASEAN Economic Integration



Food Standards Harmonization in ASEAN



Food Standards Harmonization in ASEAN



- Under article 74 of ATIGA, it is first and preferred to **adopt the relevant international standards** into national standards, based on ISO/IEC Guide 21 (Adoption of International Standards as Regional or National Standards)
 - *Identical adoption*
 - *Modified adoption*
 - *Non-Equivalent*
- **When international standards are not available**, standards shall be aligned among member states
- Member states are encouraged to actively **participate in the development of international standards**



Food Standards Harmonization in ASEAN

AMAF

(Agricultural and Forestry)

HS Code 1-15

(1) ASWG on Livestock

- ASEAN Standard Requirements for Animal Vaccines
- ASEAN GAHPs
- ASEAN Food Safety Standard for livestock products

(2) ASWG on Fisheries

- ASEAN GAqP
- ASEAN Shrimp GAP

(3) ASWG on Crops

- ASEAN Standards for horticulture and crops
- ASEAN GAP
- ASEAN MLs for Pesticides



AEM

(Economics)

HS Code 16-22

(1) Prepared Foodstuff PWG

- ASEAN Common Food Control Requirements (ACFCRs)
- Food Additives
- Food Contaminants
- Food Contact Materials
- Food Labelling

ASEAN Food Reference Laboratories

No	Field of Expertise	ASEAN Reference Laboratory
1	Mycotoxins	Food Safety Laboratory, Applied Sciences Group, Health Sciences Authority (HSA), Singapore
2	Pesticide Residues	Veterinary Public Health Centre, Agri-Food and Veterinary Authority (AVA), Singapore
3	Genetically Modified Organisms	Department of Chemistry (DOC), Malaysia
4	Veterinary Drug Residues	Veterinary Public Health Laboratory (VPHL), Bureau of Quality Control of Livestock Products (BQCLP), Department of Livestock Development (DLD), Ministry of Agriculture and Cooperatives (MoAC), Thailand
5	Heavy Metals and Trace Elements	Bureau of Quality and Safety of Food (BQSF), Department of Medical Sciences (DMSc), Ministry of Public Health, Thailand
6	Microbiology	Quatest 3 (Quality Assurance & Testing Centre 3), MOST, Vietnam
7	Food Contact Materials	Department of Science Service (DSS), Ministry of Science and Technology, Thailand
8	Food Additives	National Quality Control Laboratory of Drug and Food, Indonesia
9	Environmental Contaminants	Veterinary Public Health Centre, Agri-Food & Veterinary Authority (AVA), Singapore

Introduction to Codex Alimentarius Commission



Codex Alimentarius Commission (CAC)

- Established in 1962
- Member: 189 members
- Joint venture between FAO and WHO to formulate internationally
- accepted food safety standards for protection of human health and to
- ensure fair trade practices
- 4 types of Codex Standards
 - General Standards: Safety/Additive/Contaminants/Pesticides/Methods
 - Commodity Standards: Quality/Minimum requirement
 - Ad hoc/Task Force: Specific Issue
 - Regional Standards ex Tempe/Chili Sauce



Organization structure of Codex



- **Codex Alimentarius Commission (CAC)**
- **Codex Executive Committee**
- **FAO/WHO Secretariat**
- **Codex Subsidiary bodies**
 - **General Committees**
 - **Commodity Committee**
 - **Regional coordinating committee**
 - **ad hoc intergovernmental task forces**
- **Experts bodies work together with Codex**



Risk Assessment

- ❖ **Joint FAO/WHO Experts Committee on Food Additive (JECFA)**
- ❖ **Joint FAO/WHO Experts Meeting on Pesticide Residue (JMPR)**
- ❖ **Joint FAO/WHO Experts on Microbiological Risk Assessment (JEMRA)**
- ❖ **Ad hoc Experts Consultations**
 - **Food derived from Biotechnology**
 - **Active chlorine in the food industry**
 - **Nanotechnology in the food industry**



Codex Alimentarius Commission

Executive Committee

Horizontal/General Committees

General Principles
(France)

Food Labelling
(Canada)

Import and Export
Inspection and
Certification Systems
(Australia)

Residues of Veterinary
Drugs in Foods
(United states)

Food Additives
(China)

Pesticide Residues
(China)

Contaminants in Foods
(Netherlands)

Food Hygiene
(United states)

Methods of Analysis
and Sampling
(Hungary)

Nutrition and Foods for
Special Dietary Uses
(Germany)

Vertical / Commodity Committees

Active

Processed Fruits and
Vegetables
(United states)

Fresh Fruits and
Vegetables
(Mexico)

Fats and Oils
(Malaysia)

Spices and Culinary Herbs
(India)

Sugars
(Colombia)

Cereals, Pulses and Legumes
(United states)

Adjourned sine die

Natural Mineral Waters
(Switzerland)

Vegetable Proteins
(Canada)

Meat Hygiene
(New Zealand)

Cocoa Products and
Chocolate
(Switzerland)

Fish and Fishery Products
(Norway)

Milk and Milk Products
(New Zealand)

Ad-hoc Intergovernmental Task Forces

Active

Antimicrobial
Resistance
(Republic of Korea)

Dissolved

Animal Feeding
(Switzerland)

Fruit Juices
(Japan)

Foods Derived from
Biotechnology
(Brazil)

Processing and Handling of
Quick Frozen Foods
(Thailand)

FAO/WHO REGIONAL COORDINATING COMMITTEES

Africa
(Kenya)

Asia
(India)

Europe
(Netherlands)

Latin America and the
Caribbean
(Chile)

North America and the
South-west Pacific
(Vanuatu)

Near East
(Iran)

Elaboration of Codex Standard : 8 Steps

Step 1

CAC or Executive : Approval of New Work

Step 2

Secretariat/Experts bodies : Prepare proposed draft standard

Step 3

Members : Comments proposed draft standard

Step 4

Subsidiary body : Consideration

Step 5

CAC or Executive: Adoption as a Drafted standard

Step 6

Members : Comments draft standard

Step 7

Subsidiary body : Consideration

**Step 8 or
5/8***

CAC : Adoption as Codex standard

Information

الرربية 中文 English Français Русский Español

CODEX ALIMENTARIUS

INTERNATIONAL FOOD STANDARDS

support World Food Safety Day

Food and Agriculture Organization of the United Nations

World Health Organization

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slido

What are the main risks posed by e-commerce should there be a global governance mechanism?

Join at slido.com #CAC42

Will e-commerce bring more challenges for quality related concerns?

How do we regulate E-commerce of food?

Experts agree Codex can build trust in food sold online

Standards

Popular Latest

CXS 193-1995
General Standard for Contaminants and Toxins in Food and Feed

CXC 1-1969
General Principles of Food Hygiene

CXS 1-1985
General Standard for the Labelling of Prepackaged Foods

CKG 2-1985
Guidelines on Nutrition Labelling

CXG 2

ASEAN FOOD SAFETY NETWORK

TRADITIONAL ABEAN SPIRIT & CORPORATION

Powered by ACFS, Thailand Coordinator

Thu, Jul 25 2019 | 08:21:28 | @ 98_beats

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Current Issues

22 November 2016: UK's new proposed model for food regulation **NEW !!**

15 September 2016: Gulf Standardization Organization (GSO) new regulations for food products, packaging materials and animal feed **NEW !!**

18 July 2016: EU amends the list of flavouring substances approved for use in foods. **NEW !!**

31 May 2016: Canada & U.S. have recognized comparable food safety systems. **NEW !!**

15 DECEMBER 2015: US New "Guide for Approved Aquaculture Drugs"

More

Background

ASEAN Food Safety Network (AFSN) was established accordingly with the resolution of the 25th meeting of the ASEAN Ministers on Agriculture and Forestry - AMAF (2003 in Malaysia). The purpose of the establishment of the AFSN is to be a channel for ASEAN Member States to exchange information relevant to food safety.

Consequently, Thailand conducted an elaboration of the website which has been launched at www.aseanfoodsafetynetwork.net since September 2004. So far, Thailand, as a coordinator of the AFSN, has worked closely with good effort and cooperation of all national focal points assigned by individual Member States. [More+](#)

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