



GOVERNMENT PERSPECTIVE

KRISTINE B. NACIONALES SUPERVISING SRS, DOST-FNRI November 27, 2020

PRESENTATION OUTLINE

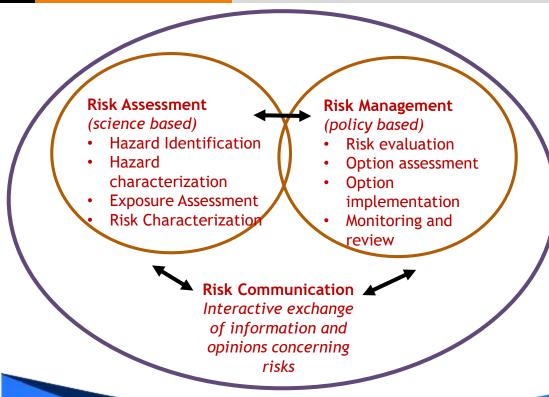
- 1 INTRODUCTION
- 2013 FOOD SAFETY ACT OF THE PHILIPPINES
- FOOD SAFETY R&D PROGRAMS
- DOST SUPPORT FOR THE FOOD SAFETY ACT
- DOST INTEGRATED FOOD SAFETY PROGRAM
- FOOD SAFETY
 R&D WORKERS
 FRONTLINER
- INNOVATION
- POLICY ADVOCACIES
- INFORMATION
- 4 R&D WORKER'S JOURNEY
- PURSUING THIS CAREER

RISK ANALYSIS FRAMEWORK FOR FOOD SAFETY



INTRODUCTION

RISK ANALYSIS FRAMEWORK FORFOOD SAFETY



Risk Analysis

A management tool for government bodies to define an appropriate level of public health protection and establish guidelines to ensure the supply of safe food (CODEX, 1997)



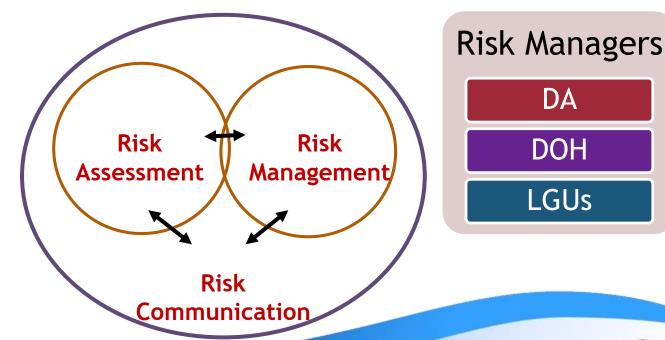
RISK ANALYSIS FRAMEWORK FORFOOD SAFETY



RDIs

Academe

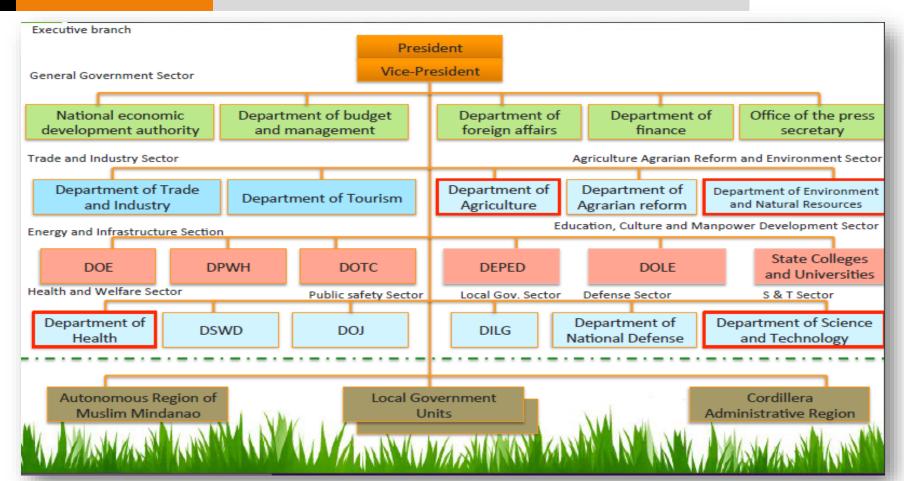
Scientists





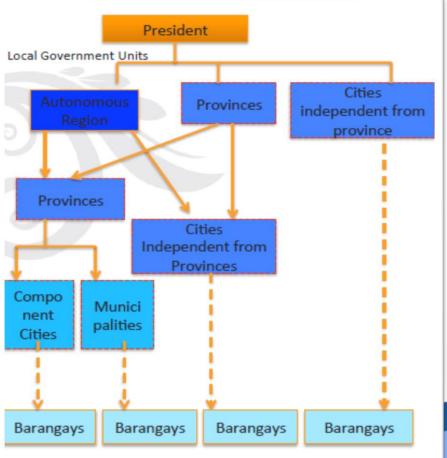
INTRODUCTION

2013 FOOD SAFETY ACT OF THE PHILIPPINES



INTRODUCTION

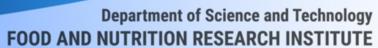
2013 FOOD SAFETY ACT OF THE PHILIPPINES



REGIONAL SUMMARY NUMBER OF PROVINCES, CITIES, MUNICIPALITIES AND BARANGAYS, BY REGION AS OF JUNE 30,2020

RegProvMunBgy	REGION	PROV.	CITIES	MUN.	BRGYS
130000000	NCR	-	16	1	1,710
140000000	CAR	6	2	75	1,178
010000000	I (ILOCOS REGION)	4	9	116	3,267
020000000	II (CAGAYAN VALLEY)	5	4	89	2,311
030000000	III (CENTRAL LUZON)	7	14	116	3,102
04000000	IV-A (CALABARZON)	5	20	122	4,019
170000000	MIMAROPA	5	2	71	1,460
050000000	V (BICOL REGION)	6	7	107	3,471
060000000	VI (WESTERN VISAYAS)	6	16	117	4,051
070000000	VII (CENTRAL VISAYAS)	4	16	116	3,003
080000000	VIII (EASTERN VISAYAS)	6	7	136	4,390
090000000	IX (ZAMBOANGA PENINSULA)	3	5	67	1,904
100000000	X (NORTHERN MINDANAO)	5	9	84	2,022
110000000	XI (DAVAO REGION)	5	6	43	1,162
120000000	XII (SOCCSKSARGEN)	4	5	45	1,195
160000000	XIII (CARAGA)	5	6	67	1,311
150000000	ARMM	5	2	116	2,490
	TOTAL	81	146	1,488	42,046

https://dilg.gov.ph/facts-and-figures/Regional-and-Provincial-Summary-Number-of-Provinces-Cities-Municipalities-and-Barangays/32





2013 FOOD SAFETY ACT OF THE PHILIPPINES

2013 FOOD SAFETY ACT OF THE PHILIPPINES

- To strengthen the **food safety** regulatory system in the country
- To protect consumer health
- To facilitate market access of local foods and food products, and for other purposes

Food Safety Regulation Coordinating Board (FSRCB) from DA, DOH, FDA, DILG, DTI, DOST and LGUs

Monitor and coordinate the performance and implementation of the mandates of the FSRAs in food safety regulation

- Coordinate crisis management and planning during food safety emergencies
- Continuously evaluate the effectiveness of enforcement of food safety regulations and research and training programs













 2013 FOOD SAFETY ACT OF THE PHILIPPINES

Food Safety: From Farm to Fork











Production

Processing

Transport & Distribution

Retail

Preparation and Consumption

FOOD BUSINESS OPERATORS











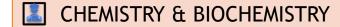


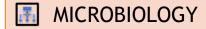


INTRODUCTION

 2013 FOOD SAFETY ACT OF THE PHILIPPINES











EPIDEMIOLOGY

MACRICULTURAL SCIENCES

QUALITY ASSURANCE AUDITING

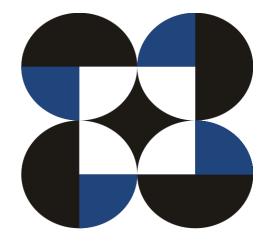
FOOD LAW





FOOD SAFETY R&D PROGRAMS

- DOST SUPPORT FOR THE FOOD SAFETY ACT
- DOST Integrated Food Safety Program





Conduct researches especially on food safety-related problems and concerns in the Philippines.



Develop/recommend tools, guidelines, policy option, and the like to address food safety issues

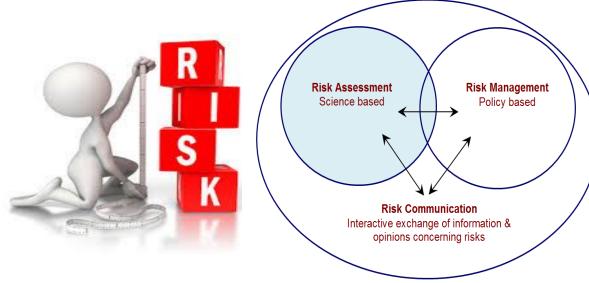


Share R&D results, knowledge and technologies and provide relevant S&T services



ARTICLE IV

Strengthening the scientific basis of the regulatory system



Article IV, Section 7: Use of science-based risk analysis as the basic principle for food safety

Article IV, Section 9:

Standards shall be established on the basis of science, risk analysis, scientific advice from expert bodies, standards of other countries, existing PNS, and Codex, where these exist and are applicable

ARTICLE IX

Upgrading the capability of farmers, fisher folk, industries, consumers and government personnel in ensuring food safety

Article IX, Section 31:

Skills training other and instructional/educational activities shall be regularly provided to food business operators, food handlers, and government personnel.

ARTICLE X

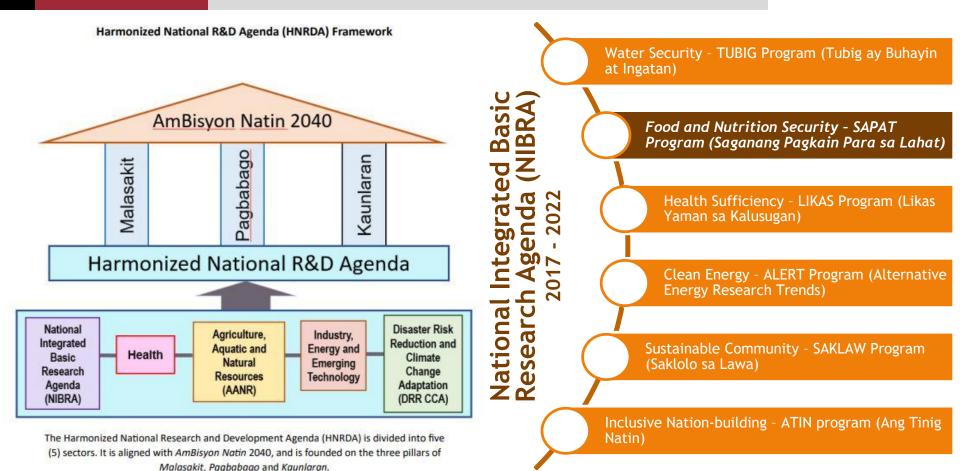
Research on cost effective technologies and codes of practice for assisting farmers, fisher folk, MSMEs and other stakeholders to enable them to comply with food safety regulations

Article X, Section 35:

Results of research shall be used in the development of policies and improvement of food regulations.

FOOD SAFETY R&D PROGRAMS

- DOST SUPPORT FOR THE FOOD SAFETY ACT
- DOST Integrated Food Safety Program



FOOD SAFETY R&D PROGRAMS

- DOST SUPPORT FOR THE FOOD SAFETY ACT
- ullet DOST Integrated Food Safety Program

- Diagnostics
- Drug discovery and development
- Functional foods
- Hospital equipment and biomedical devices
- Information and communication technology for health
- Dengue
- Nutrition and Food Quality and Safety
- Disaster risk reduction
- Climate Change Adaptation
- Omic technologies for health (Platform technology across research priorities)

Food and Nutrition Security

- Nutritious, safe and affordable food for all, at all times
- Countryside Development
- Competitive Industry
- Delivery of Social Services
- Intelligent Transportation Solutions
- Renewable Energy and Energy Storage Solutions
- Human Security

RESEARCH PRIORITIES for HEALTH RESEARCH and DEVELOPMENT



RESEARCH PRIORITIES for INDUSTRY, ENERGY AND EMERGING TECHNOLOGY



DOST Integrated Food Safety Program



To provide science/evidence-based approach in enhancing and strengthening the Philippine Food Safety system;



To provide food safety related services to meet customer satisfaction;



To develop and implement effective systems, processes and protocols on food safety;

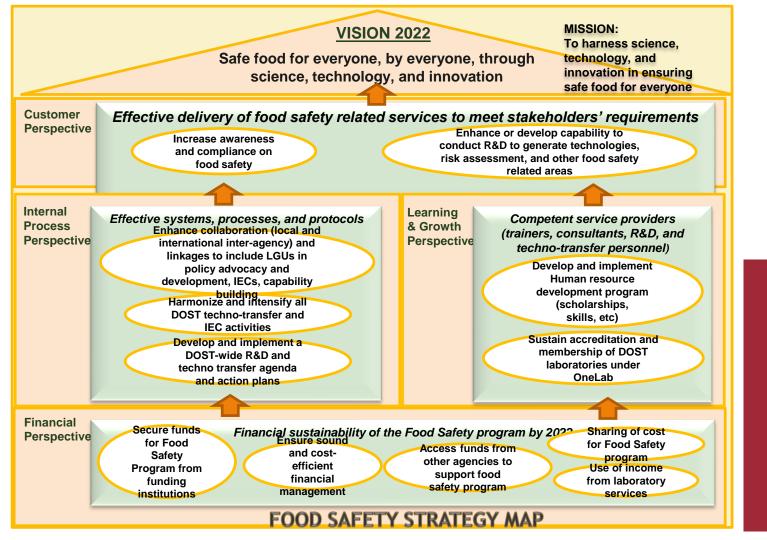


To develop and enhance human resource on food safety;



To develop and institute strategies and mechanisms to sustain the food safety program.





DOST Integrated Food Safety Program DOST
Integrated
Food Safety
Program

PROGRAM COMPONENTS

INTEGRATED FOOD SAFETY RESEARH AND DEVELOPMENT PROGRAM

ENHANCEMENT OF TESTING CAPABILITIES ON FOOD SAFETY HUMAN RESOURCE DEVELOPMENT PROGRAM ON FOOD SAFETY KNOWLEDGE/TECHNOLOGY TRANSFER AND POLICY ADVOCACY PROGRAM ON FOOD SAFETY

- INNOVATION
- POLICY ADVOCACIES
- INFORMATION



Optimum nutrition to everybody through scientific, environmental friendly and global competitive technologies.

- INNOVATION
- POLICY ADVOCACIES
- INFORMATION

Research and
Development
on Food Safety
& Quality

BACKGROUND



Food safety, **nutrition** and **food security** are inextricably linked. Unsafe food creates a vicious cycle of disease and malnutrition, particularly affecting infants, young children, elderly and the sick.



Access to sufficient amounts of **safe and nutritious food** is key to sustaining life and promoting good health.



- INNOVATION
- POLICY ADVOCACIES
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Research and
Development
on Food Safety
& Quality

BACKGROUND



Consumer confidence in food relies on the effectiveness of checks and available assessment tools and researches to ensure the quality, safety, consistency, and authenticity of food in the Philippine food supply chain.



The focus on the integrity of food has increased globally in recent years, which consequently seeks planning and implementation of new regulations and higher standards on quality control and assurance.



- INNOVATION
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RISK ASSESSMENT

(WHO/FAO, 2006)



- INNOVATION
- POLICY ADVOCACIES
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EXPOSURE ASSESSMENT

Estimation of the likelihood that the consumer will be exposed to a substance or hazard.

Major considerations in dietary exposure:

- 1. Hazard concentration/occurrence data
- 2. Food consumption data

- INNOVATION
- POLICY ADVOCACIES
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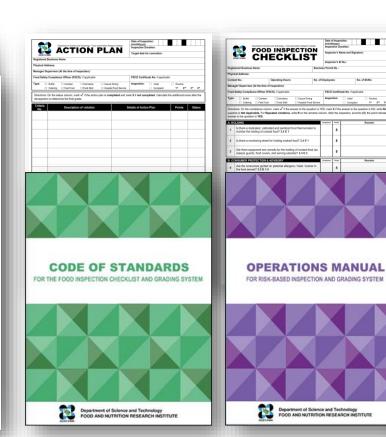


- INNOVATION
- POLICY ADVOCACIES
- INFORMATION



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PHILIPPINE NATIONAL STANDARD PNS/BAFS 10:201 ICS 67.180.1
TANDARD PNS/BAFS 10:201





- INNOVATION
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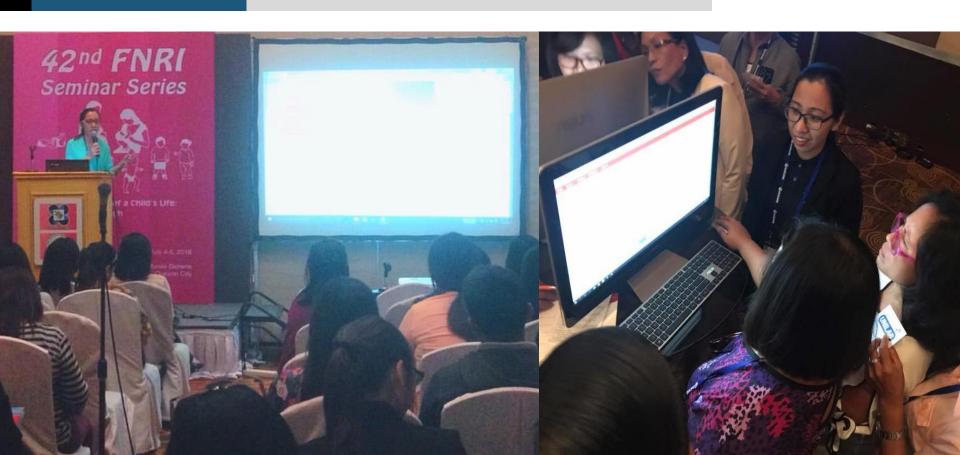


http://ritm.gov.ph/health-food-safety-agencies-launch-talks-on-food-and-waterborne-disease-monitoring/

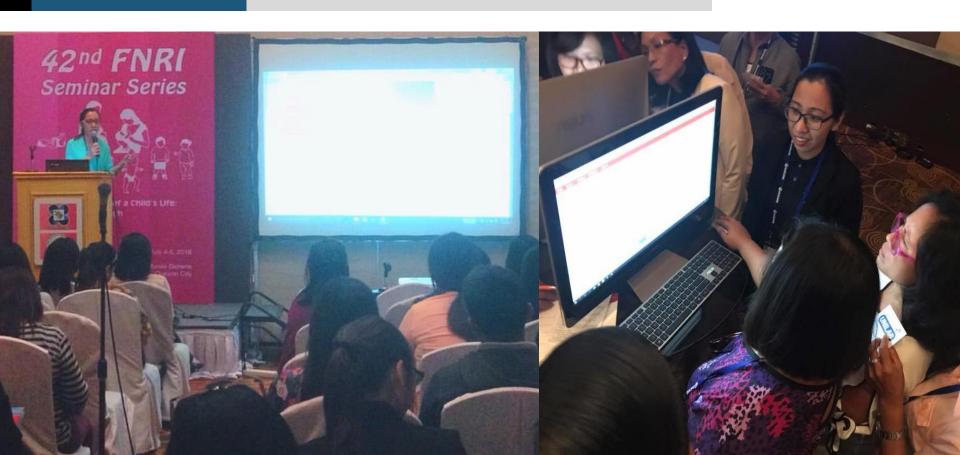
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OPPORTUNITIES FOR SELF-IMPROVEMENT



















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