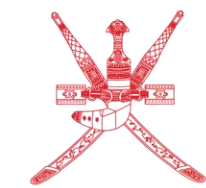


# المفاتيح لسلامة الغذاء



وزارة الثروة الزراعية والسمكية وموارد المياه



مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER



اشخصية أثناء تداول الغذاء  
على اليد قد يؤدي إلى انتقالها للغذاء  
حولته بالأمراض

حوم والدجاج والاسماك  
الجرائيم أثناء



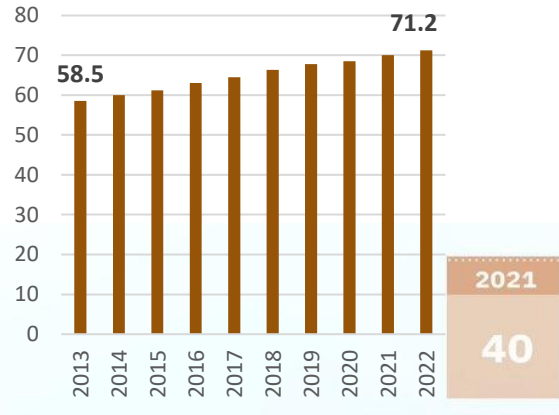
## Supporting Food Safety, Security and Food Innovation in the Sultanate of Oman

Hussein Samh Al Masroori, PhD

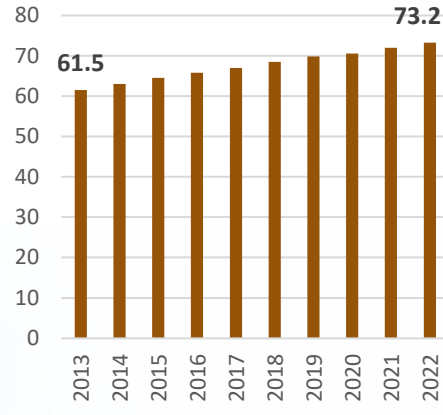
Director-General, Food Safety and Quality Center  
Ministry of Agriculture, Fisheries and Water Resources  
Sultanate of Oman

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## GFSI Score



## Food Safety Score



# Oman jumps 5 positions in Global Food Security Index

among 113 countries



4<sup>th</sup> position within the MENA region

Year	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Global Ranking	62	60	58	55	52	48	47	45	40	35

## Sub-indicators with significant growth



## About GFSI..

The Index is managed and published annually by The Economist intelligence Unit. It consists of a set of indices that measure the basic issues related to food security such as affordability, availability and quality. It is considered as a model dynamic index of food security that covers both qualitative and quantitative indicators. Each country is scored from 0-100, with the score going towards 100 indicating a better performance.

ECONOMIST  
IMPACT

Oman has the highest global progress in its score from 2012 to 2022

**2022**  
**71.2** **13.8+**

Score of the highest country in the report  
**83.7**



# How food security, safety and innovation can be supported?

- Many tools, initiatives and strategies.
  - Vary by Vision, Scope, Objectives etc.
  - Implemented by the government sector and/or private sector
  - Might be influenced by stakeholders
- National Strategies and Policies
  - Regulatory Frameworks
  - Governance
  - Priorities
  - Politics
  - Consumer preferences and engagement
  - Enhancing Agricultural Productivity
  - Proper Resources' Management.
  - Research & Development
- Logistics (supply chain)
  - Partnership & Outsourcing
  - Sustainable Practices
  - International Cooperation
  - Education and Awareness
  - Economic Policies
  - Public Health
  - Funding
  - Natural Resources



# How Sultanate of Oman support food security & safety?

## 1. National Strategies and Policies

- Oman Vision 2040
- National Food Security Strategy

## 2. Regulatory Frameworks

- Monitoring, Testing, Inspections and Certifications
- Sustainable Practices & Financial Sustainability

## 3. Enhancing Agricultural Productivity

- Modern Farming Techniques
- Support for Farmers

## 4. Natural Resources' Management

- Desalination and Wastewater Treatment
- Efficient Irrigation Systems

## 5. Technological and Research Innovations (R&D)

- Agricultural Research
- Smart Agriculture
- Digital Platforms/Solution (Food Management & Traceability System)

## 6. Support for Startups and Entrepreneurs

- Incubators and Accelerators
- Competitions and Challenges

## 7. Food Supply Chain Management

- Cold Storage Facilities
- Logistics and Distribution

## 8. Sustainable Practices

- Organic Farming
- Environmental Conservation

## 9. Partnership

- Enabling private sector

## 10. International Cooperation

- Trade Agreements
- Global Partnerships

## 11. Education and Awareness

- Public Awareness Campaigns
- Training and Capacity Building

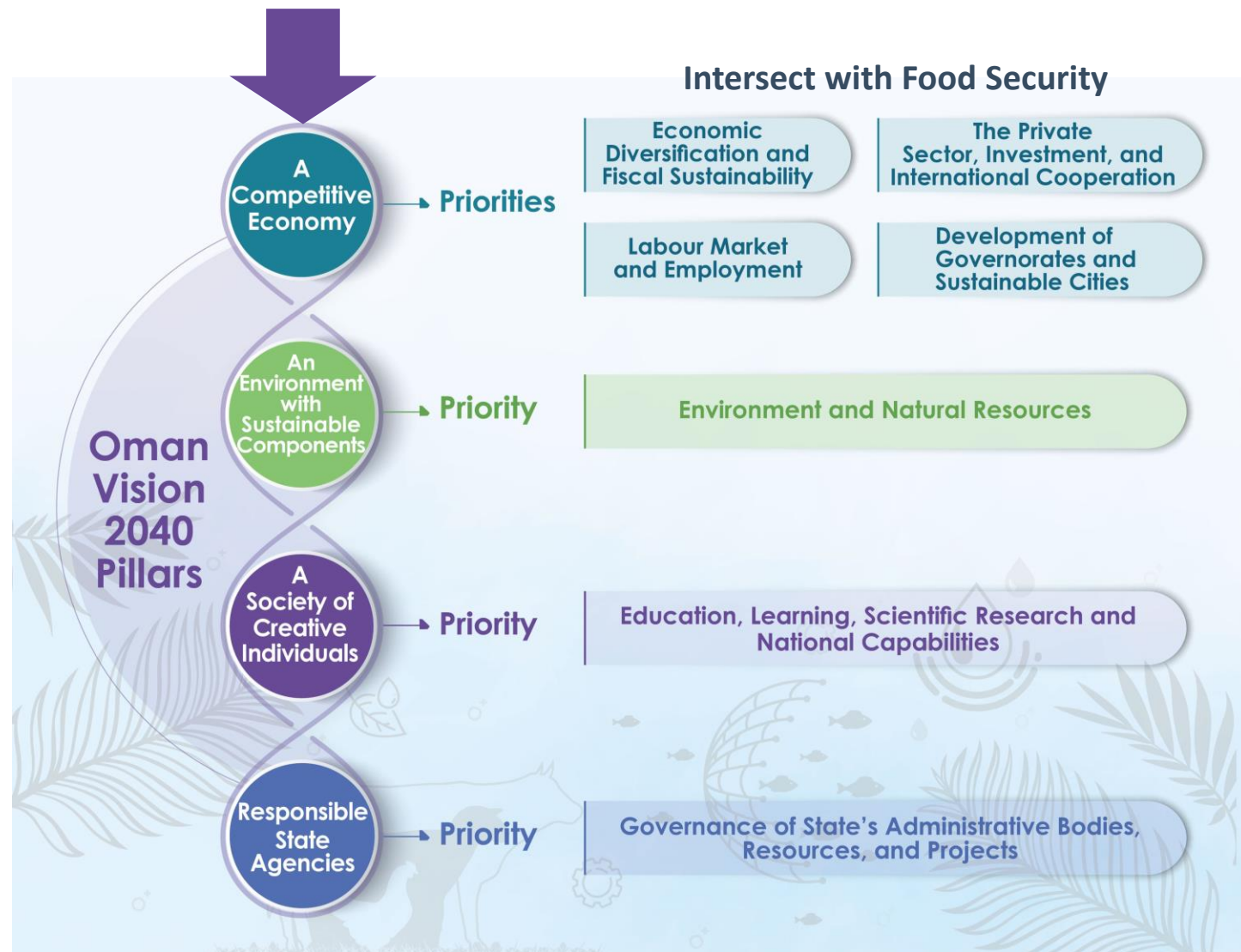
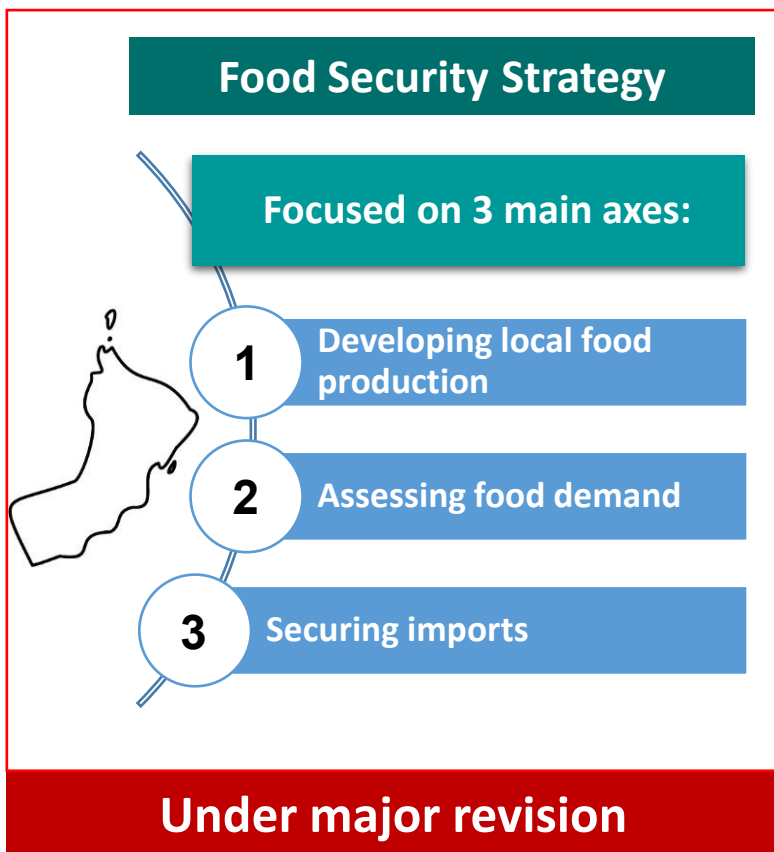


## □ National Strategies and Policies

- **Oman Vision 2040**
- **National Food Security Strategy**

- ✓ The national reference for economic and social planning.
- ✓ The source of national sector strategies and five-year development plans.
- ✓ **Has 4 Pillars:**

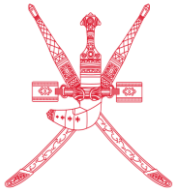
## Oman Vision 2040



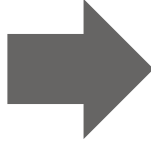


## □ Regulatory Frameworks

- Food Safety & Quality Center



Ministry of Regional  
Municipalities &  
Water Resources



Ministry of Agriculture,  
Fisheries Wealth &  
Water Resources



مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

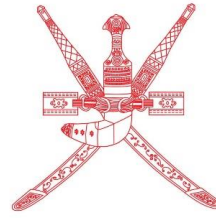


1. DG of Animal Wealth
2. DG of Agricultural Development
3. DG in the Governorates
  - Safety and quality departments at each Governorate
  - Food safety sections at each Willayah
  - Quarantine and food safety sections at the ports



## Regulatory Frameworks

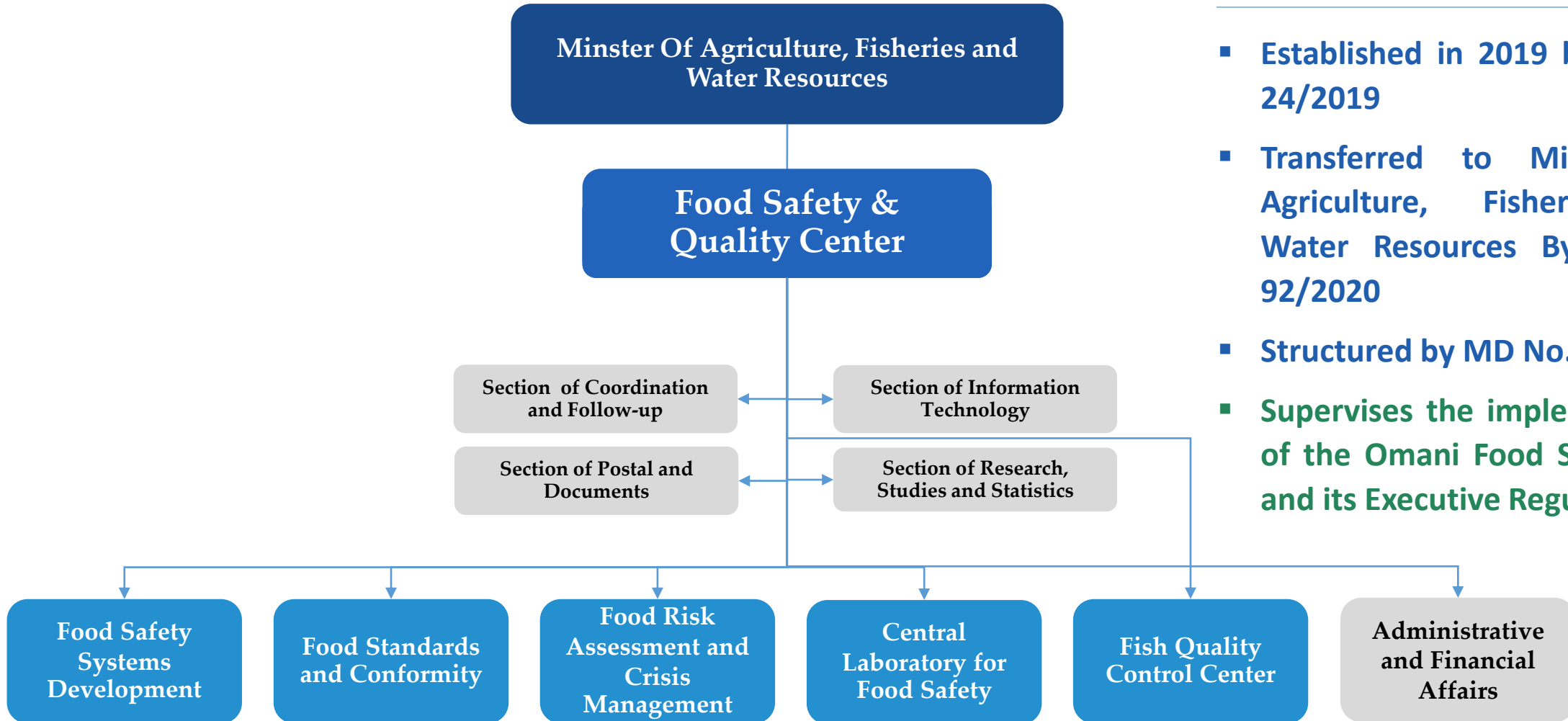
- Food Safety & Quality Center



وزارة الثروة الزراعية والسمكية وموارد المياه



مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER



- Established in 2019 by RD No. 24/2019
- Transferred to Ministry of Agriculture, Fisheries and Water Resources By RD No. 92/2020
- Structured by MD No. 67/2021
- Supervises the implementation of the Omani Food Safety Law and its Executive Regulations



# Regulatory Frameworks

- Food Safety & Quality Center



مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

17 Mandates  
According to Ministerial Resolution 67/2021

Control and inspection at borders

Supervising private laboratories

Policies, legislation and regulations

Specifications and Standards

Research and Studies

Laboratory tests

Qualification and training

To be a leading global center that is trusted by all

Vision



Ensuring food safety according to legislation and effective monitoring system to protect society

The Message



- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>▪ Impartiality</li> <li>▪ Confidentiality</li> <li>▪ Transparency</li> </ul> | <ul style="list-style-type: none"> <li>▪ Excellence</li> <li>▪ Integrity</li> <li>▪ Respect</li> </ul> | <ul style="list-style-type: none"> <li>▪ Empowerment</li> <li>▪ Cooperate</li> <li>▪ Teamwork</li> </ul> |
|---|--|--|

Values



**Empowering employees and developing their capabilities**

**International cooperation and foreign relations** by activating the Sultanate's contribution to global efforts and cooperation with international bodies.

**Scientific research and community service** by promoting the field of studies and research, raising awareness, educating and participating in events and activities.

**Productivity and quality** of work by raising the efficiency of food establishments, private laboratories and their employees, ensuring the safety and quality of food and maintaining the general health of the consumer.

**Innovation and development** by establishing an integrated institutional and legislative structure, enhancing the food safety and quality system, raising electronic readiness, and managing food risks and crises.

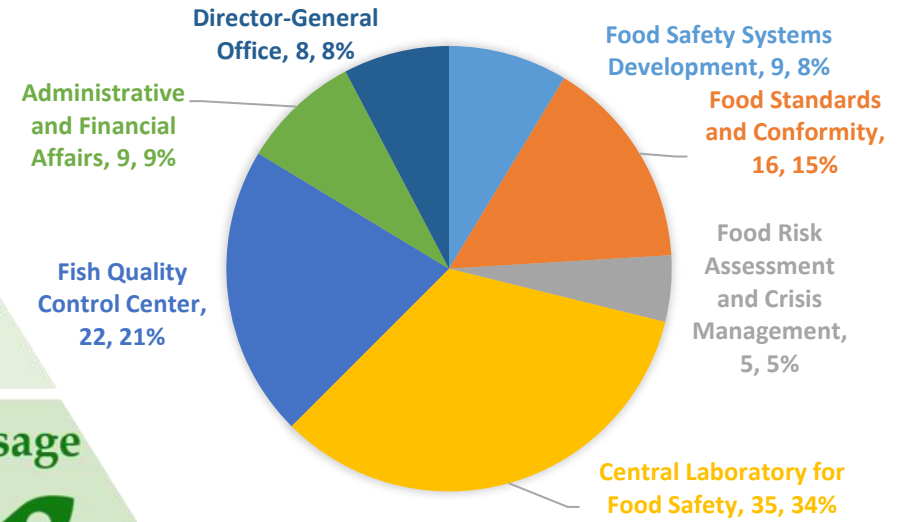
Objectives

5 Strategic  
12 Operational



Ensuring food safety and quality in accordance with regulations and legislation and following up on their implementation

Ministerial Goal



Employees  
Total = 104



## Regulatory Frameworks

- Food Safety & Quality Center

### الأهداف التشغيلية

- 1 إرساء بناء مؤسسي وتشريعي متكامل لتعزيز منظومة سلامة وجودة الغذاء
- 2 رفع الجاهزية الإلكترونية
- 3 إدارة المخاطر والأزمات الغذائية

### الأهداف الاستراتيجية

#### الإبتكار والتطوير

- 1 رفع كفاءة المنشآت الغذائية والمختبرات والعاملين بها
- 2 ضمان سلامة وجودة الغذاء والحفاظ على الصحة العامة للمستهلك

#### الإنتاجية وجودة العمل

- 1 تعزيز مجال الدراسات والبحوث
- 2 التوعية والتثقيف والمشاركة في الفعاليات والأنشطة

#### البحث العلمي وخدمة المجتمع

- 1 التعاون المحلي
- 2 التعاون الدولي
- 3 تفعيل مساهمة السلطنة في الجهود العالمية

#### التعاون الدولي والمحلي

- 1 رفع كفاءة الموظفين
- 2 تعزيز الإلتزام الوظيفي

#### تمكين الموظفين وتطوير قدراتهم

## Aligned with the International Objectives

FAO & WHO

### الأهداف العالمية

للجهات الوطنية للرقابة على الأغذية  
(الفاو والصحة العالمية ، 2003)

صياغة السياسة وتقييم الأخطار وإدارتها ووضع المواصفات

التفتيش وإنفاذ النصوص

تنسيق أنشطة الرقابة على الأغذية والرصد والتدقيق

التثقيف والتدريب

### هدف الوزارة

ضمان سلامة وجودة الغذاء وفق الضوابط والتشريعات ومتابعتها تنفيذها



## Regulatory Frameworks

- Food Safety & Quality Center

# Department of Food Risk Assessment & Crises Management

Strengthening the preventive measures to ensure food safety



ورشة عمل تفعيل آليات  
دليل إدارة المخاطر  
والأزمات الغذائية  
11-10 اغسطس 2022م

مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

وزارة الزراعة والسمكية وموارد المياه

Department of Food Risk Assessment & Crises Management

Assessment and Management of Risks and Crises

Monitoring Contaminants and Foodborne Diseases

Monitoring and Evaluation of Food Contact Materials



# Department of Food Safety Systems Development

Ensuring good hygiene practices in food production sites



Department of Food Safety Systems Development

Food Safety Systems

Quality Control of Food Establishments

Implementation of Food Safety Systems



# Department of Food Standards & Conformity

Ensuring the safety and quality of food products

Technical specifications and regulations

Conformity

Inspection at borders



Food Standards & Conformity

Food Specifications and Technical Regulations

Registration of Establishments and Food Products

Conformity

Imported and Exported Food

Import and Export Permits





## Regulatory Frameworks

- Food Safety & Quality Center

# Central Laboratory for Food Safety

Building a national system to monitor food safety and quality in the Sultanate of Oman in partnership with private laboratories

Responsible for Food and Beverage Testing

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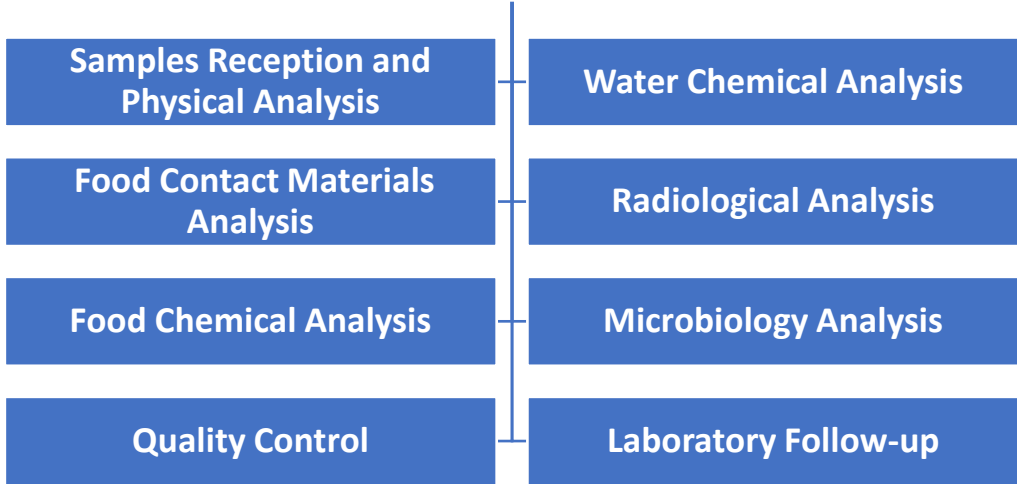


مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

## Regulatory Frameworks

- Food Safety & Quality Center

# Central Laboratory for Food Safety



Accreditation of our services by the GCC Accreditation Center (GAC) in accordance with the recognized International Standard **ISO/IEC 17025:2017**, "General requirements for the competence of testing and calibration laboratories"

## Mandates (11)

- 1 Building a national system to monitor food safety and quality in partnership with private laboratories
- 2 Assessing the quality of food and beverages through laboratory analysis, and take the necessary actions
- 3 Conducting scientific research and studies in cooperation with different authorities
- 4 Quality assurance of private food laboratories





# Fish Quality Control Center

Ensuring the application of the requirements for the safety and quality of seafood in the fish production chain



Fish Quality Control Center



Physical Analysis

Microbiology Analysis

Chemical Analysis

Seafood Technology

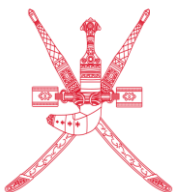
Seafood Systems Application

Monitoring of Quality Control Systems



## Regulatory Frameworks

- Decision Making



Ministry of Regional  
Municipalities &  
Water Resources

- Inspection & Monitoring Approach



Ministry of Agriculture,  
Fisheries Wealth &  
Water Resources

- Science & Risk based Approach
  - Partnership and Integration with all Stakeholders
- A balanced Decision NOT in
  - A trust Approach Risk

### Academics

- ✓ Scientific Expertise
- ✓ Research Skills
- ✓ Education and Training
- ✓ Regulatory Understanding

### Other (Business)

- ✓ Operational Efficiency
- ✓ Strategic Planning
- ✓ Stakeholder Engagement
- ✓ Crisis Management

- Interdisciplinary Knowledge
- Leadership Skills
- Communication Skills
- Problem-Solving Ability







## Regulatory Frameworks

### Legislation & Responsibilities

- **Royal Decree No.84 of 2008 issuing the Food Safety Law.**

1. Definitions and General Provisions

2. Control of Food Handling

3. Import, Export and Transit of Food Products

4. Penalties

- **Ministerial Decision No. 2 of 2010 issuing the Regulations on Food Safety.**

- **Ministerial Decision No. 118/2019 amending some provisions of the Food Safety Regulations.**

1. Definitions

2. General Provisions

3. Food Handling Safety

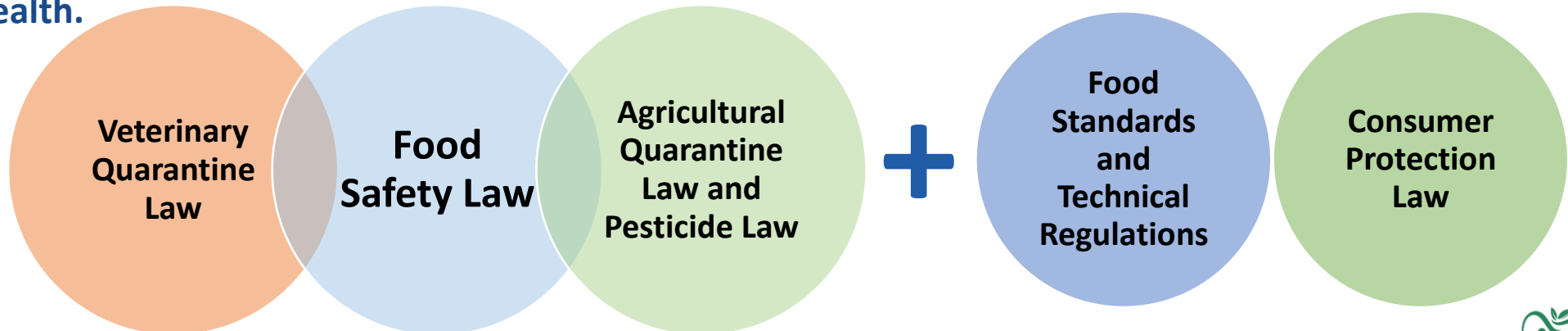
4. Self-monitoring of the Food Establishment

5. Food Tracking and Retrieval

6. Import and Export

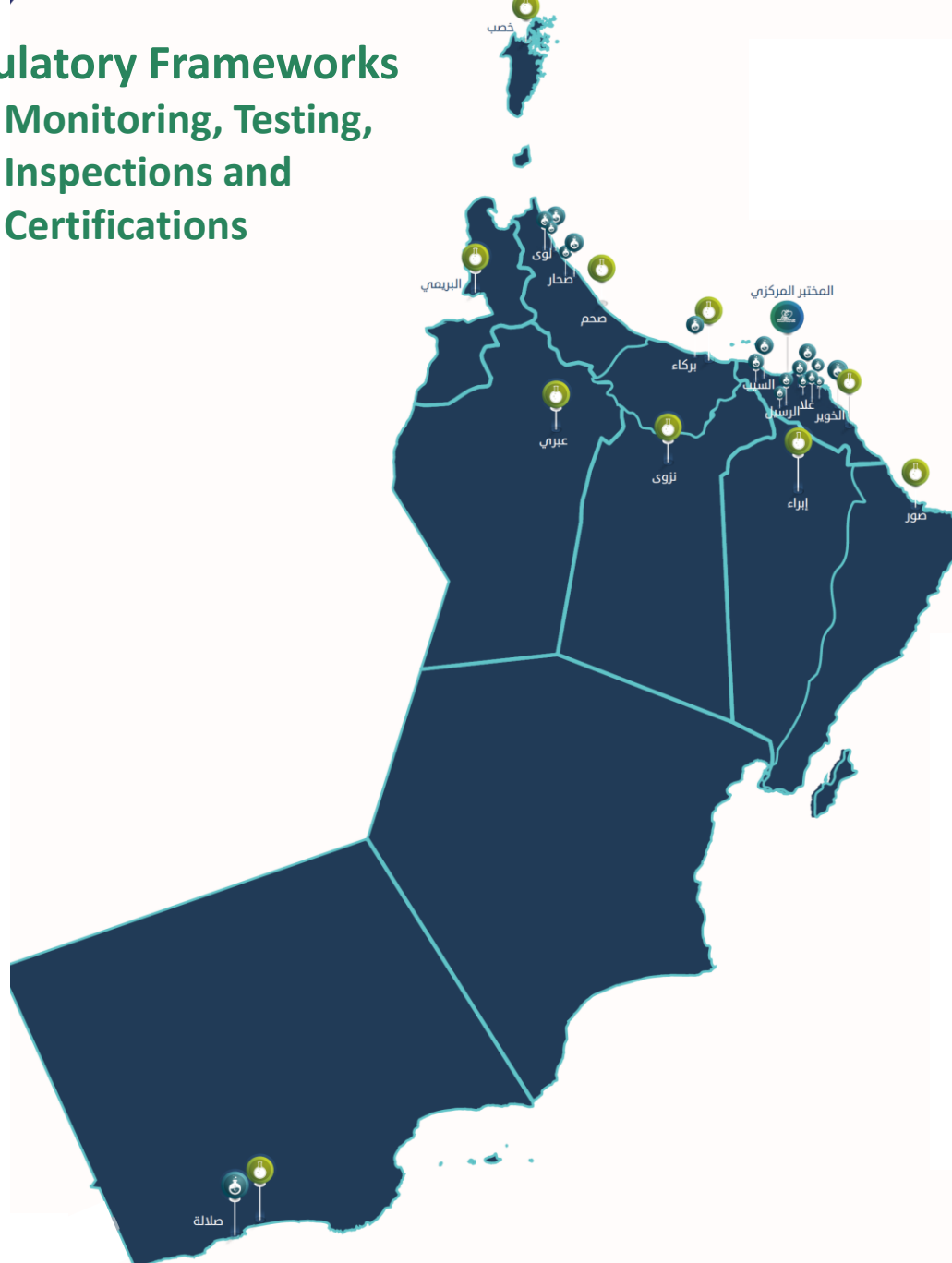
7. Procedures followed in the matter of Infringing Foods

- **Ministerial Decision No. 29/2016 issuing the regulation of health requirements for activities relating to public health.**



## Regulatory Frameworks

- Monitoring, Testing, Inspections and Certifications



Central Laboratory for Food Safety

10

Municipality Labs

19

Private Labs

13 Labs are accredited (ISO 17025)

6 Labs undergoing accreditation



## ❑ Food Supply Chain Management

- Cold Storage Facilities
- Logistics and Distribution



### Integrated facilities for:

- Inspection and supervision
- Laboratory examination
- Handling and storage services

According to the best international safety and quality standards





## ❑ Food Supply Chain Management

- Cold Storage Facilities
- Logistics and Distribution

## Why stations and partnership with the private sector?



1. Keeping up with regional and global changes.

2. Reshaping the relationship and roles between the public and private sectors (Oman Vision 2040):

- Developing the business environment.
- Simplifying and speeding up procedures.
- Giving the private sector a leading role and enabling it to drive economic development.
- Providing job opportunities.



Ministry of Agriculture,  
Fisheries Wealth & Water  
Resources

3. Achieving the ministry's mission towards community partnership and effective contribution from the private sector to enhance food and water security and maximize economic returns.

## ❑ Food Supply Chain Management

- Cold Storage Facilities
- Logistics and Distribution

## Stations and Partnership Impacts

1. Providing a suitable environment for the inspection of food shipments, thus ensuring the safety and quality of food.
2. Protecting consumers' health, thereby reducing financial waste due to lower healthcare costs.
3. Reducing food and financial waste due to the recall and destruction of products.
4. Increasing individual and community satisfaction with the government and food products.
5. Enhancing social and economic well-being and quality of life.
6. Strengthening international confidence in national food products.
7. Enhancing the international reputation of the Sultanate of Oman in food security indices (food safety).
8. Reducing smuggling and regulating statistical data.



## □ Support for Startups and Entrepreneurs

- Incubators and Accelerators
- Competitions and Challenges

إمداد  
EMDAD  
هاكاثون سلامة وجودة الغذاء  
Hack for Food Safety & Quality



# 24 Hours of Excitement

Welcome to the Emdad Hackathon for Food Safety & Quality, an event aimed at addressing challenges in food safety and quality through innovation and collaboration. Join us for 24 hours of creativity and problem-solving as we work together to develop solutions that enhance food safety and quality.



7500 OMR

جوائز بقيمة



24 hours  
ساعة



29-30 April 2024

تواريخ الهاكاثون



Muscat

مسقط



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## □ Support for Startups and Entrepreneurs

- Incubators and Accelerators
- Competitions and Challenges



### Targeting:

- Students
- Jobseekers
- Professional

### With skills in:

- Food Safety, Logistics or Agriculture
- UI/UX Designing
- Entrepreneurship/Project Manager
- Marketing
- Programming Mobile Apps Development, Web Development, AI, Big Data

### Competition's Challenges:

1. Food Quality Management
2. Food Quality Alert, Recall and Management
3. Data Management in Food Logistics
4. Food Tracking







## Partnership & Collaboration

مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

# 2023



Sultanate of Oman سلطنة عُمان  
وزارة التجارة والصناعة وترويج الاستثمار  
Ministry of Commerce, Industry & Investment Promotion



وزارة الصحة  
سلطنة عمان



البلديات بالمحافظات



جامعة التقنية  
والعلوم التطبيقية  
University of Technology  
and Applied Sciences



مركز الاعتماد الخليجي  
GCC ACCREDITATION CENTER



UNIVERSITÉ  
LAVAL



IUFoST



RSS

CODEX  
CODEX ALIMENTARIUS

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## MoU with Oman Food Bank





مركز سلامة وجودة الغذاء  
FOOD SAFETY & QUALITY CENTER

# شكراً جزيلاً Thank You



FSQC Annual Report 2023



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FOOD SAFETY & QUALITY CENTER