# Stakeholder Engagement on Aquatic Animal Health and Private Sector

**Communication Strategies** 

Workshop on enhancing aquatic animal health and biosecurity

26-29 October 2025, Jeddah, Saudi Arabia

Dr. Tariq Khan Saudi Aquaculture Society (SAS) Kingdom of Saudi Arabia



World Organisation for Animal Health

Organisation mondiale de la santé animale

Organización Mundial de Sanidad Animal



## Saudi Aquaculture Society





#### Introduction:

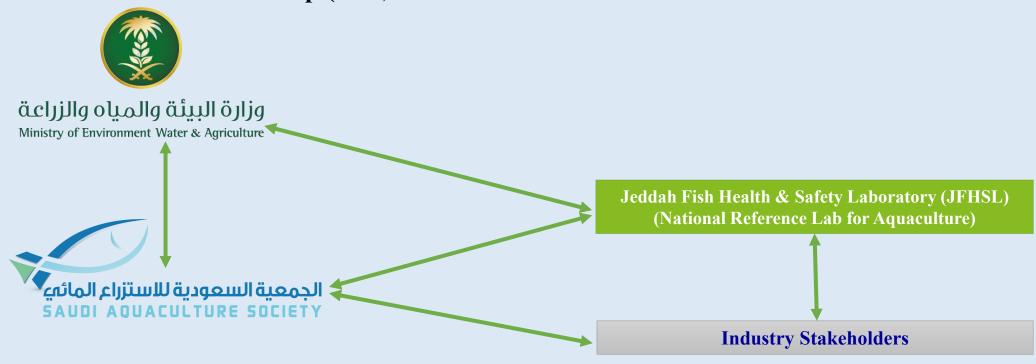
• The SAUDI AQUACULTURE SOCIETY (SAS) is a non-profit organization, formed by Saudi Cabinet Decree number 73 on 06.02.2013.

 SAS represents the aquaculture industry in the Kingdom of Saudi Arabia, and operates under the supervision of the Ministry of Environment, Water and Agriculture (MEWA).

#### Public Private Partnership



#### **Public Private Partnership (PPP)**







Stakeholder Engagement on Aquatic Animal Health

#### **Biosecurity Workshops**



Under the patronage of the General Directorate of Aquaculture, Ministry of Environment, Water & Agriculture (GDA-MEWA), Saudi Aquaculture Society has the mandate to organize national level Aquaculture Biosecurity Workshops.

- International Experts
- Academic & Research institutions
- Biosecurity presentations from individual aquaculture projects
- SAS Biosecurity status update
- Quarterly sample analysis data from JFHSL
- Interactive QA sessions



## Saudi Aquaculture Biosecurity Technical Group (SABTG)



#### Stakeholders:

All industry stakeholders including members from the Competent Authority, Company owners, Biosecurity / Technical managers, Aquaculture specialists and Technical advisors.

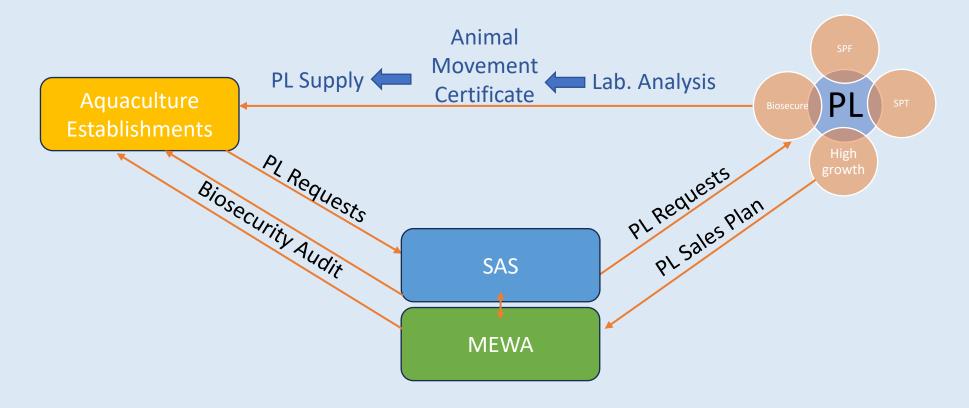
#### Objectives:

- Provides a platform for aquaculture companies to voice operational challenges
- Facilitates the collection of suggestions from SABTG members for submission to the High-Level Committee for review and action.
- Consolidates industry feedback and forward strategic recommendations to MEWA.
- Supports continuous improvement of the aquatic animal health through stakeholder engagement and collaborative input.

#### PL Distribution



- Only approved species by the Competent Authority are allowed to culture in the Kingdom.
- Strict controls on imports to safeguard local industry
- A single biosecure source of PLs to all projects after biosecurity audit approval of the requesting establishment.







# Private Sector Communication Strategies

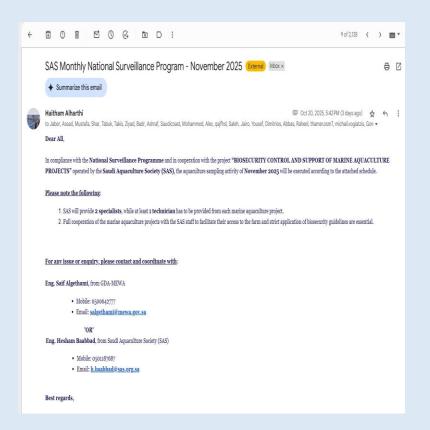
#### Monthly Surveillance and Biosecurity Audit



Monthly sampling schedule is shared with the aquaculture companies. Samples are collected from;

- Local & commodity markets
- Aquaculture projects
- Processing Plants
- Imports
- Wild

Contact details of MEWA and SAS focal persons have been shared to facilitate seamless communication as needed.



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## Monthly Surveillance and Biosecurity Audit

Per shipment

Per shipment

Per shipment

3 for lethal sampling

100% for BBS (faeces)

150

60

60

30

30

10

10

I for lethal, 5 poole

(faeces) for BBS

NA

50

NA

30

NA

30

NA

10

Mr. Rabee Alkhoshi

0569887555

Mr. Saleh Bahasan

0554839243





Broodstock

Larvae

Juvenile

Sub adult

Adult

Routine

Routine

Routine

Routine

Routine

EACH sample will be packed as ONE sample = 1 bag

Histology

PCR

Histology

PCR

Histology

PCR

Histology

PCR

Histology

PCR

Histology

b) Dead fish in plastic bag with proper labeling and kept in ice in polystytrene boxes.

Fish samples for analysis other than PCR and/or histology need to be transported to JFRC as follows:

shipment

Once per

shipment

Once per

shipment

Monthly

Monthly

Mobile

Mobile

2%

5%

5%

10%

\* If available; NA- Not Applicable; - No sampling

SAS BIOSECURITY SAMPLING TEAM

VNN/VER, Iridoviru

+ TiLV (Tilapia)

All

VNN/VER, Iridoviru

+ TiLV (Tilapia)

All

VNN/VER, Iridovirus

+ TiLV (Tilapia)

All

VNN/VER, Iridoviru

+ TiLV (Tilapia)

All

VNN/VER, Iridovirus

+ TiLV (Tilapia)

All

a) Live fish in water inside oxygenated plastic bag, with proper labeling and kept in polystyrene boxes at low temperature.

#### **BIOSECURITY CONTROL OF AQUACULTURE PROJECTS**



NA

Mr. Majdi Alroqi

0508064057

Mr. Abdulrahman Alharbi

0546620229

NA

FISH RIOSECURITY SURVEILL ANCE PROGRAM	November -	. 🤈

					FISH	H BIOSECU	JRITY SURVEI	LLANCE PRO	DGRAM Nov	ember - 20	25						
Number of Samples and Analysis										Sampling Sit	tes & dates						
						Mon 17 Nov	Thu 20 Nov		Tue 04 Nov	Wed 05 Nov	Thu 06 Nov	Mon 24 Nov	Sun 09 Nov	Mon 10 Nov	Sun 02 Nov		
Production	Diganostic			Min targetted	No of animals per	# of tanks/	No. of animals /										

											11101201101		100011101						
Production facilities	Animal stage	Target sample	Diganostic method	Target pathogen	Frequency	Min targetted prevalence	No of animals per PCR reaction	# of tanks/ ponds/ cages	No. of animals / sample	Company A	Company B	Company C	Company D	Company E	Company F	Company G	Company H	Company I	Company J
	Juveniles	Routine	PCR	VNN/VER, Iridovirus	Once per shipment	2%	10	Per shipment	150	*	*	*	-	-	*	*	*	*	*
	,				_								I .						

NA

NA

NA

NA

NA

NA

Mr. Saleh Bahasan

0554839243

Mr. Thamer Almalki

0557748431

SAS BIOSECURITY SAMPLING TEAM

Mobile

Aguaculture Speciali

NA

NA

NA

quaculture Speciali

Aquaculture Speciali

NA

NA

Mobile

Name

Mobile

SAS BIOSECURITY SAMPLING TEAM

Quarantine
------------

Hatchery

Nursery

Pre growout

Off shore

cages/Grow

out

**NOTES** 

REMARKS

11

Wed 26 Nov

Company K

NA

# Monthly Surveillance and Biosecurity Audit

Company I

NA

NA

NA

NA

NA

**Sampling Sites and dates** 

Mon 10 Nov

Company F

NA

NA

NA

NA

NA

NA

SAS BIOSECURITY SAMPLING TEAM

Tue 11 Nov

Company G

NA

NA

Wed 12 Nov

Company H

NA

NA

NA

NA

NA

Mon 24 Nov

Company D

NA

NA

NA

NA

NA

NA

NA

NA

Sun 09 Nov

Company E

NA

NA

guaculture Specialis

Animal stage

Broodstock

Crustacean and

Broodstock

Nursery / Pre -growout

Grow out

Indoor

Culture

Wild

NOTES /

REMARKS

Diganostic

PCR

Histology

Histology

PCR

Histology

Histology

PCR

Histology

PCR

"\*" If available; "NA" Non Applicable; "\*\*" 2nd sampling for WSSV only; "-" No Sampling The sampling flow should start from BBC to NPU to Grow-out and then to Wild Population

For other farms (other than NAQUA) the broodstock is treated as one sampling section

Target pathogen

WOAH listed pathogens + EHI

and DIV1

WOAH listed pathogens + EH

and DIV1

WSSV

WSSV

WOAH listed pathogens + EHF

and DIV1

WSSV

WSSV

WSSV (Crabs and

athogens + EHP and DIV1

**Culture Period** 

NA

Summer

Winter

Summer

Winter

NA

Wild samples and plankton samples will continue as before.

#### **BIOSECURITY CONTROL OF AQUACULTURE PROJECTS**

Company A



Sun 23 Nov

Company J

الجمعية السعودية للاستزراء المائم. SAUDI AOUACULTURE SOCIETY		Ministry of Environment Water & Agriculture
	SHRIMP BIOSECURITY SURVEILLANCE PROGRAM November - 2025	

Company B

Company C

NA

NA

NA

NA

NA

NA

NA

NA

SHRIMP BIOSECURITY S	URVEILLANCE P

	SIMINI DIOSECOMITI SOMVEHELANCE
N 1 60 1 10 1 1	

Quarterly

Monthly

Fortnighly\*\*

Monthly

Fortnighly\*\*

Monthly

Fresh feed samples (for broodstock and grow-out) including polychaete, artemia, squid and clams will be taken and analyzed for AHPND/EMS, where applicable

Mr. Saleh Bahasan

0554839243

Mr. Thamer Almalki

0557748431

SAS BIOSECURITY SAMPLING TEAM

- Number of Samples and Analysis Mon 03 Nov

Min targetted

10%

10%

10%

# of tanks/

ponds/site

No. of animals /

sample

30

10

30

10

30

10

30

10

30

10

Mobile

SAS BIOSECURITY SAMPLING TEAM

Mr. Majdi Alroqi

0508064057 Mr. Abdulrahman Alharbi

0546620229

No. of animals pe

PCR reaction

NA

30

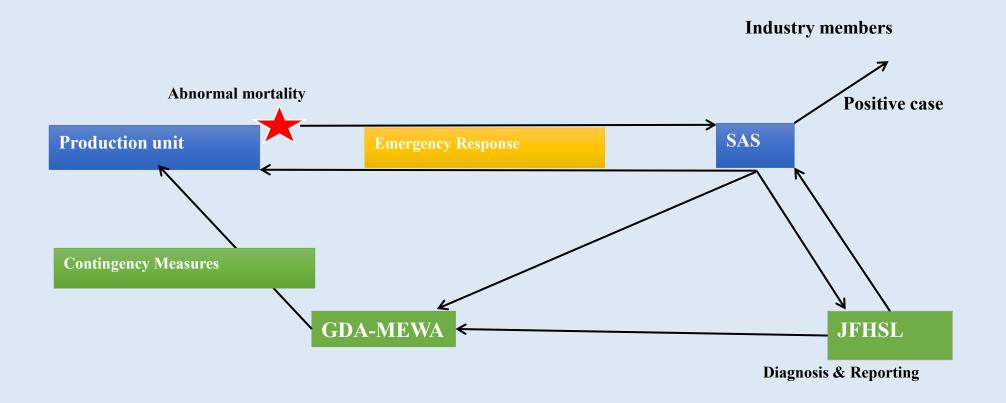
NA

NA

## Emergency Response / Contingency plan



- Emergency response is initiated by the aquaculture establishment
- SAS is responsible for the collection and analysis of emergency samples.
- Concerned teams are mobilized to collect suitable samples and assess the production conditions





## Aquaculture Regulations



#### Aquaculture Regulations in the Kingdom

- National Aquaculture Policies and Practices
- National Aquaculture Import Manual
- National Biosecurity Manual for Shrimp Culture
- National Fish Biosecurity Manual
- National Aquaculture Product Export Manual
- Regulation on Commercial Fisheries

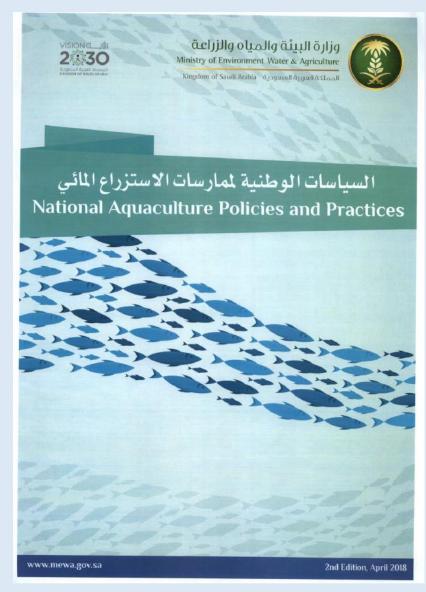




#### National Aquaculture Policies and Practices



- Facilities infrastructure
- Aquaculture Policy including environment protection, licensing and monitoring of aquaculture units, Biodiversity and genetic conservation policy, movement control, aquaculture drug policy, research and development policy and policy on legal action on violations
- Responsible Aquaculture Practices ( Code of Conduct)
- National Aquaculture Drug Control Program
- National Residue Monitoring & Control Program etc.

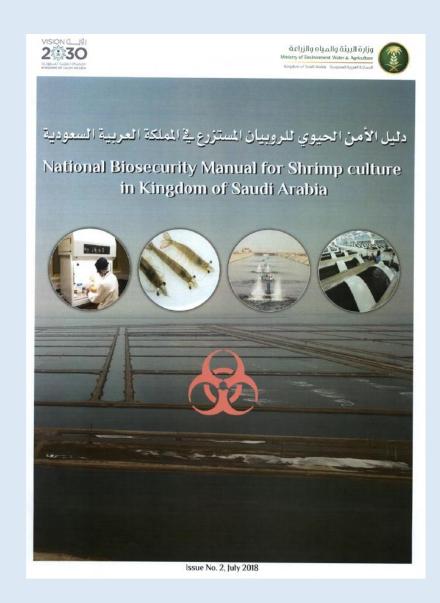




#### National Aquaculture Biosecurity Plan



- 1. Switch to Specific Pathogen Free (SPF) stocks
- 2. National Reference Diagnostic Laboratory
- 3. KSA listed pathogens
- 4. National surveillance program
- 5. Health certificate for animal movement
- 6. National Zoning and Compartmentalization
- 7. Aquaculture Production Unit zoning
- 8. Compulsory reporting of disease outbreaks
- 9. Emergency response and contingency plan
- 10.Control on importation of live shrimp
- 11. Ban on the use of wild broodstock
- 12. Restriction on aquatic products based on the SPS agreement of the WTO.

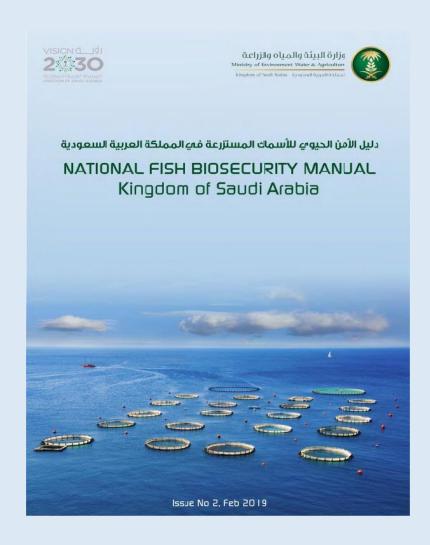




#### **National Fish Biosecurity Manual**



- Fish species allowed to culture in the Kingdom
- Fish Farm Biosecurity guidelines and requirements
- Sampling and analysis protocols
- Details of National Reference Laboratory (JFHSL)
- Use of SPF Broodstock
- Geographical Zoning
- Risk Ranking Levels
- Diseases reporting, emergency response and contingency plan
- SOPs and procedures concerning to Fish aquaculture





#### National Aquaculture Product Export Manual



- Details of Competent Authority and linked Agencies/Departments and functions in detail
- Authorization Systems
- Procedural approvals of aquaculture establishments
- Rapid Alert System
- Conditions and Procedures for export
- National Sampling and Inspection Plan
- Aquaculture Products export Certification System and other related annexures and procedures





الدليل الوطني لتصدير منتجات الأحياء المائية National Aquaculture Products Export Manual



Revision 3 May 2018



## National Aquaculture Import Manual

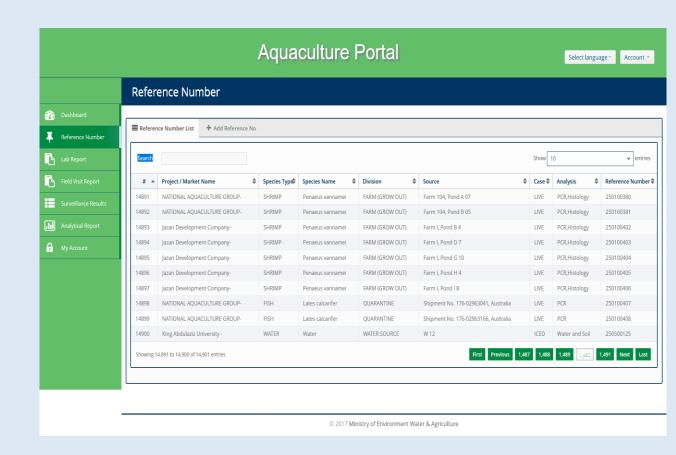


- Approval of live aquatic species for importation
- Aquaculture species currently approved for importation to KSA
- Regulations to import live fish species
- KSA listed diseases
- Foreign hatcheries approved to export live fish to KSA
- Details of diagnostic reference laboratories etc.

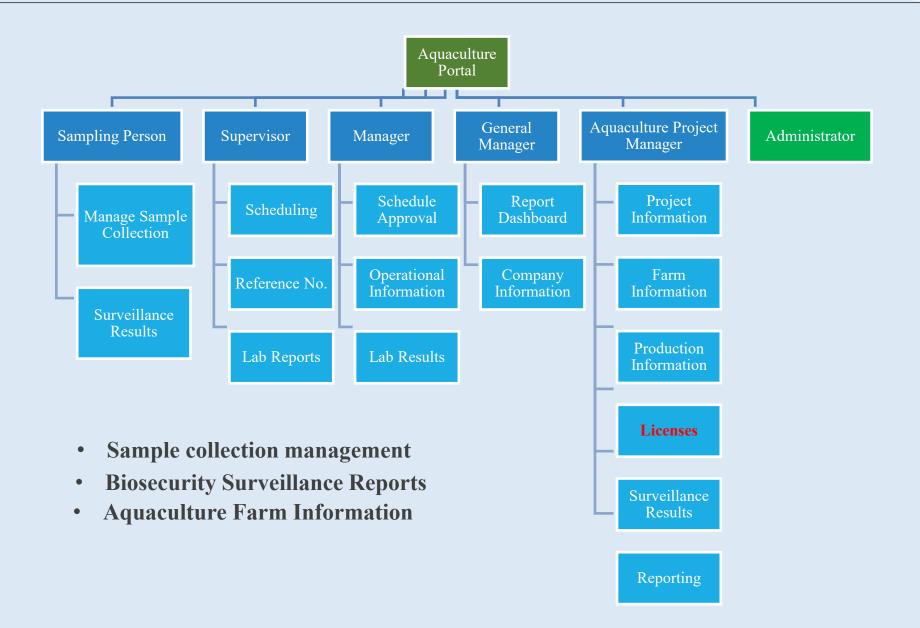


#### **Aquaculture Portal**

- Samples collected by designated teams and uploaded to the system
- Real-time access to all relevant information
- Reports generated via the Laboratory Information Management System (LIMS)
- Controlled access through designated company login
- Reports available for viewing and download
- All laboratories integrated with Aquaportal



#### **Aquaculture Portal**



Logout 🗈





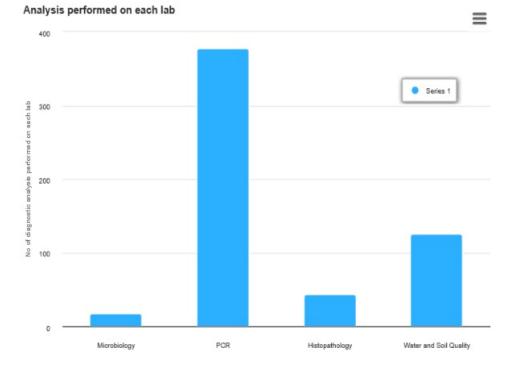


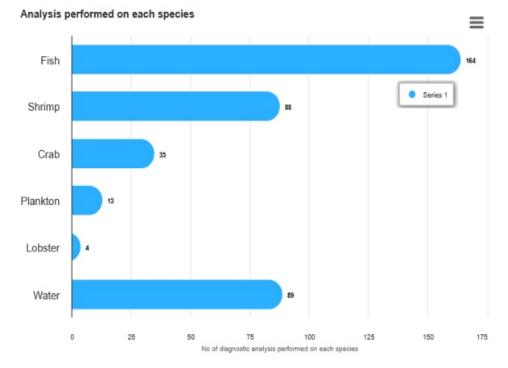
Profile

#### **Aquaculture Portal**

Analytical Reports







## Strengths and Risks



#### **Strengths**

- Industry stakeholders are working parallel with the Competent Authority
- All the establishments can raise any queries or concerns
- Regional designated teams to support aquaculture activities
- Every agency is given a mandate to implement
- Technical support and services
- Round the clock emergency services
- Research and development along with capacity building

#### **Risks**

- Disease introduction through imports
- New emerging diseases

# Thank you!

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