



High Health Livestock Export Zone (HHLEZ): Operation Manual

OIE concept for animal quarantine:

- Conventional Quarantine systems
- Compartments
- HHLEZ



The Project: HHLEZ

- This bio secure HHLEZ was planned in conjunction with Hashemite Foundation and the Jordanian Veterinary Services.
- This initiative was then presented to the OIE, and OIE experts provided guidance as to the consideration of relevant OIE standards and recommendations pertaining to compartmentalisation, as well as animal health and welfare under transport and housing.
- The entire HHLEZ Project is self-contained within a totally isolated 150-hectare terrain, double fenced (2 mts high), and itself located in the center of a 5000-hectare completely fenced government controlled property of the Hashemite Kingdom Foundation.

The Project: HHLEZ

- The grounds of this Foundation are located in the **southern Jordanian** Badia (desert area) isolated from all villages and livestock farms, at 10km from the nearest public road, and at **80 km from the port of Aqaba**.
- The following **documents** exist:
 - General biosecurity plan,
 - General contingency plan,
 - Manual for the respect of Animal Welfare conditions during transport and permanence,
 - Surveillance Programme for the Hashemite Kingdom of Jordan,
 - Surveillance Programme for the HHLEZ.

Types of plans

An emergency
preparedness
plan

what a
government
needs to do
before an
outbreak of a
disease in order
to be prepared

A response or
“contingency
plan”

Details what a
government will
do in the event of
an incursion of a
disease

An operations
manual

a comprehensive
set of
instructions
(SOPs)

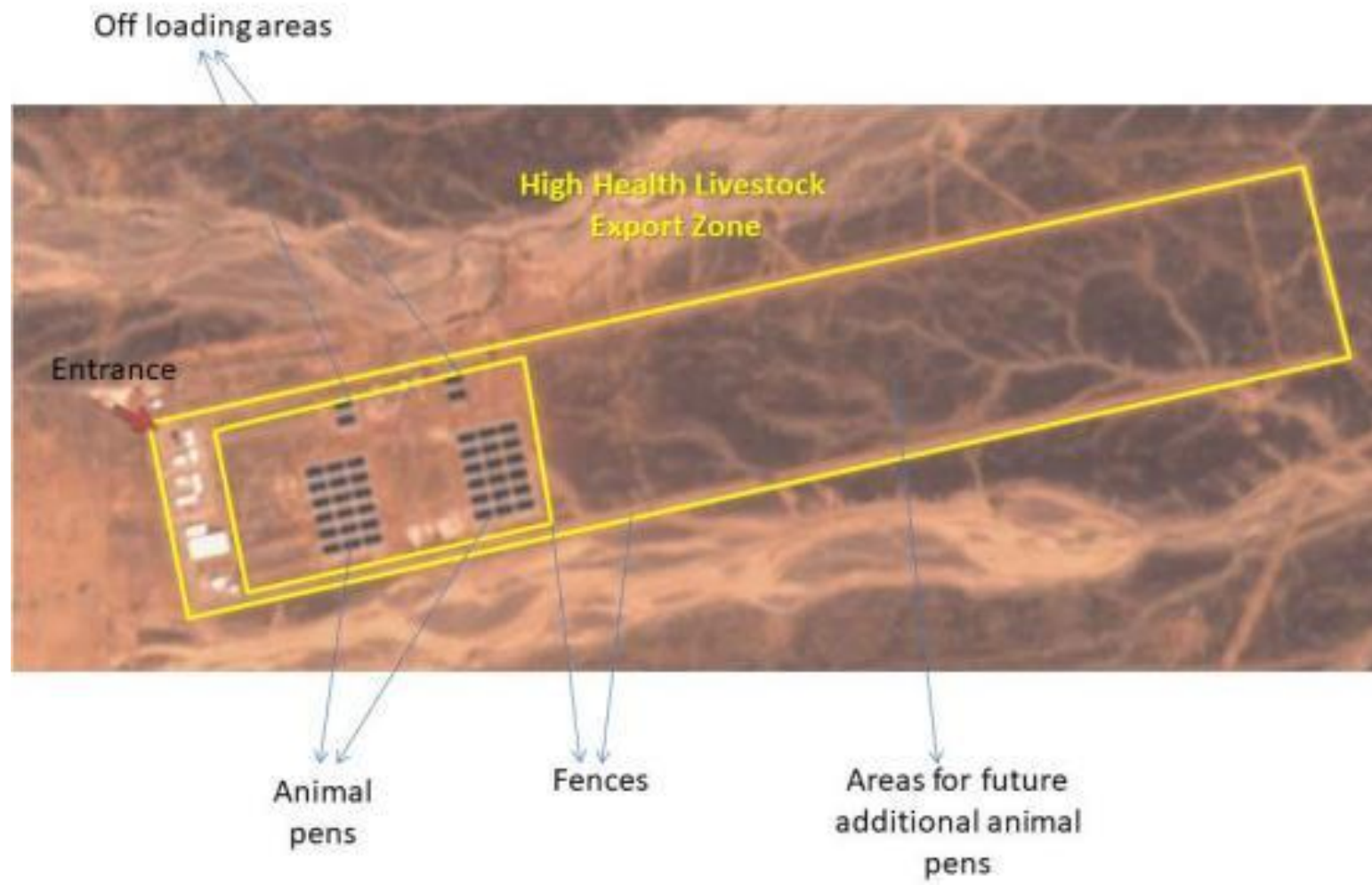
A recovery plan

safe recovery or
restoration of
normal activities

The Project: HHLEZ



The Project: HHLEZ



HHLEZ: Positive Indicators

- Protect importing countries from the **risk of disease transmission** from various exporting countries, as much as protecting the local animal health.
- The project will represent a major component of the **region's food security**
- Put an end to the decades-old **monopoly of senior traders** who import large-scale cargo ships at very high prices allowing them to control the consumer markets for high capital value and higher trade risks causing the possibility of rejection of vessels.
- Create an atmosphere of **competitiveness and focus** on more production, higher quality, and a suitable marketing policy

HHLEZ: Components

Laboratory	Postmortem Dissection	Slaughterhouse	Incinerator
Veterinary Clinic	Veterinary Pharmacy	Clinical Inspection Area	Livestock Disinfection Area
Truck Disinfection Area	Reception, Conferences and Training Hall	Administration & Official Representation	Sheep Reception Area
Cattle & Camels Reception Area	Sheep Station	Cattle & Camels Station	Sheep Loading Area
Cattle Loading Area	Sheep Unloading Area	Cattle unloading Area	Veterinary Supplies Store
Fodder Store	Spare Parts Store	Office Supplies Store	Maintenance Workshop
Doctors' Dorm	Workers' Dorm	Truck Scale	Water Tanks
Security	Mosque	WC	Gates

Operation Manual for the HHLEZ

Contents of the Operation Manual

- **BACKGROUND AND RATIONALE**

- GENERAL OBJECTIVES

- Developmental objective
 - Direct and indirect objectives

- JUSTIFICATION

- Why do we need such projects?
 - Advantages over the currently followed systems

Contents of the Operation Manual

- **GENERAL BIOSECURITY PLAN**
 - GENERAL BIOSECURITY PROCEDURES (production of SOPs)
 - Restriction of access
 - Cleaning
 - Disinfection
 - Documentation
 - Facility
 - Identification and traceability
 - Internal inspection
 - Audit

Contents of the Operation Manual

- **RISK FACTORS PRESENT IN THE HHLEZ**
 - INTRODUCTION OF NEW ANIMALS TO THE HHLEZ
 - PROXIMITY AND CONTACT WITH ANIMAL SPECIES SUSCEPTIBLE TO THE DISEASES OF CONCERN AI AND ND VIRUSES
 - PEOPLE
 - VEHICLES
 - EQUIPMENT AND FOMITES
 - MATERIAL FOR BEDDING
 - WATER SUPPLY and PESTS CONTROL
 - FEED

Contents of the User Manual

- **OFFICIAL AUDITS**
 - REGULAR AUDITS
- **EPIDEMIOLOGICAL SURVEILLANCE SYSTEM**
 - PASSIVE SURVEILLANCE SYSTEM
 - ACTIVE SURVEILLANCE SYSTEM
 - SAMPLING

Contents of the User Manual

- **NATIONAL CONTINGENCY PLAN**
 - COMMANDS
 - METHODS OF STUNNING AND EUTHANASIA
 - DISPOSAL OF CARCASSES AND RESIDUES
 - DISINFECTION AND DECONTAMINATION OF THE PREMISE

"Peacetime" roles for the various command levels

COMMAND LEVEL	IMPLEMENTS	PREPARES & PRACTICES
Gold command (Ministerial body)	National policy	Emergency preparedness plan
Silver command (National disease control centre)	Emergency preparedness plan	<div>Emergency preparedness plan</div> <div>Recovery plan</div> <div>Contingency plan</div> <div>Operations manual & SOPs</div>
Bronze command (Local disease control centres)		<div>Contingency plan</div> <div>Operations manual & SOPs</div>
Operational command (Field teams)		Operations manual & SOPs

Roles and responsibilities of command levels during an outbreak

COMMAND LEVEL	IMPLEMENTS
Gold command (Ministerial body)	National policy
Silver command (National disease control centre)	Contingency plan
Bronze command (Local disease control centres)	Contingency plan Operations manual & SOPs
Operational command (Field teams)	Operations manual & SOPs

Sources of information to produce the manual



Manual for Animal Welfare: Animal Handling

- Main objectives:
 - Using the natural behaviour of livestock to move them
 - Low-stress animal handling
 - Appropriate use of a livestock talker to move stock
 - Inspecting and improving handling facilities

Manual for Animal Welfare: Land Transport

- Main Objectives:
 - Journey planning
 - Use and maintenance of facilities and equipment at the feedlot and abattoir
 - Placing livestock in appropriate groups for transportation
 - Loading and unloading with minimum stress
 - Identifying and managing injured animals

Manual for Animal Welfare: Feedlot operation

- **Main Objectives:**

- Preparation of facilities for the arrival of livestock
- Identifying and managing injured animals
- Managing livestock in appropriate groups
- Provision of food, water and a safe environment
- Preparation of livestock for transport.

Manual for Animal Welfare: Holding Facility

- **Main Objectives:**

- Inspection of holding facilities
- Appropriate stocking density
- Provision of feed and water
- Managing animals during heat stress conditions