

# Implementing Disaster Risk Reduction at the local Level

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The Aqaba city Model

“An integrated approach

By: Eng. Khalid R. Abuaisheh Arch, planner

Head of DRR Unit

Riyadh ,Saudi Arabia

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- **ASEZA SOCIO-ECONOMICAL PROFILE;**
- **LOCAL HAZARD PROFILE;**
- **DRR PRACTICE, TOOLS AT THE LOCAL LEVEL;**
- **KEY CHALLENGES**

## The City of Aqaba

- Located at the northern tip of the Gulf of Aqaba
- Jordan's only outlet and sea port to the open sea
- In 2001 the city was transferred into a Special Economic Zone namely after (ASEZ)

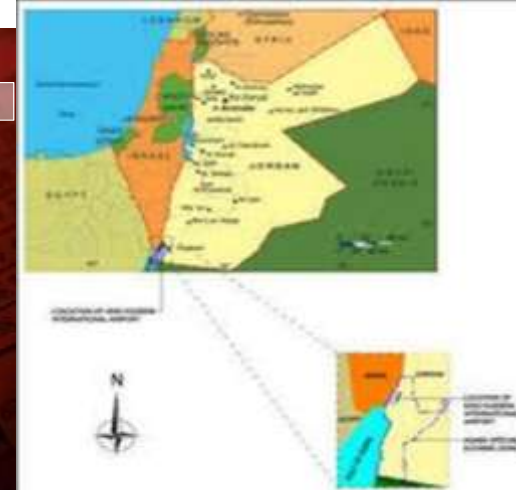
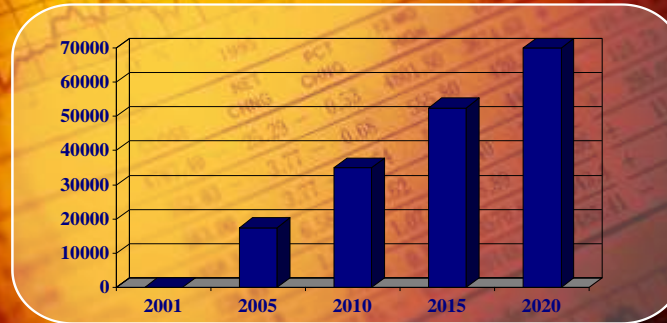


# The Socio-Economic Profile

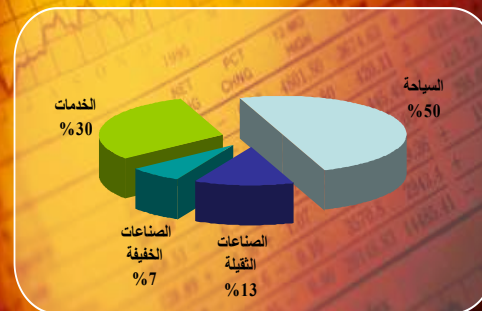
- Area 357 km<sup>2</sup>
- Population = 10300
- Duty free flat tax rate
- One –stop –shop
- An engine of growth at the national level
- Administered by a decentralized local government Authority (ASEZA)

## الأهداف الرئيسية

### فرص العمل



## (2001-2020) نشاطات الاستثمار





# Values of the city of Aqaba

Economical

Historical and Cultural, Social values

Recreational values



## THE VISION

**The Aqaba Special Economic Zone is a world class Red Sea business hub and leisure destination enhancing the quality of life and prosperity of the region and a driving force for the economic growth of Jordan.”**



### **The Mission**

- **To improve the quality of life for all community members**
- **To create, regulate and sustain a globally competitive investor friendly environment**
- **To optimize the efficient utilization of entrusted resources in harmony with the Master Plan to internationally recognized practices**
- **To effect a transparent and accountable corporate structure, governance and culture that synergizes the activities of the ASEZA team.**



## **VALUES**

**ASEZA values its staff, citizens, investors and environment**

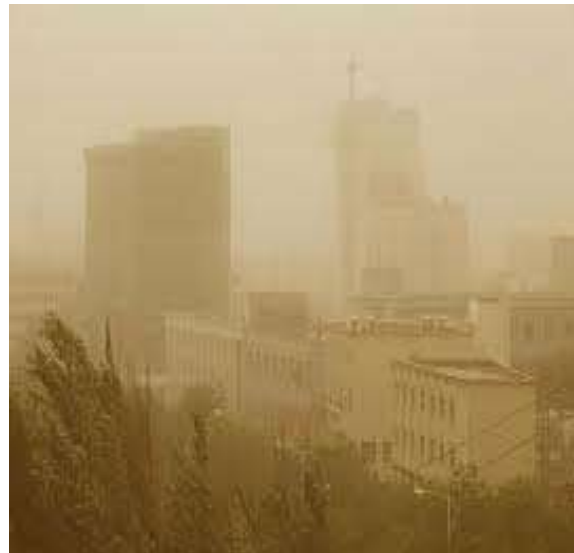
## Hazards profile

**Earthquakes**

**Flashfloods**

**Sandstorms**

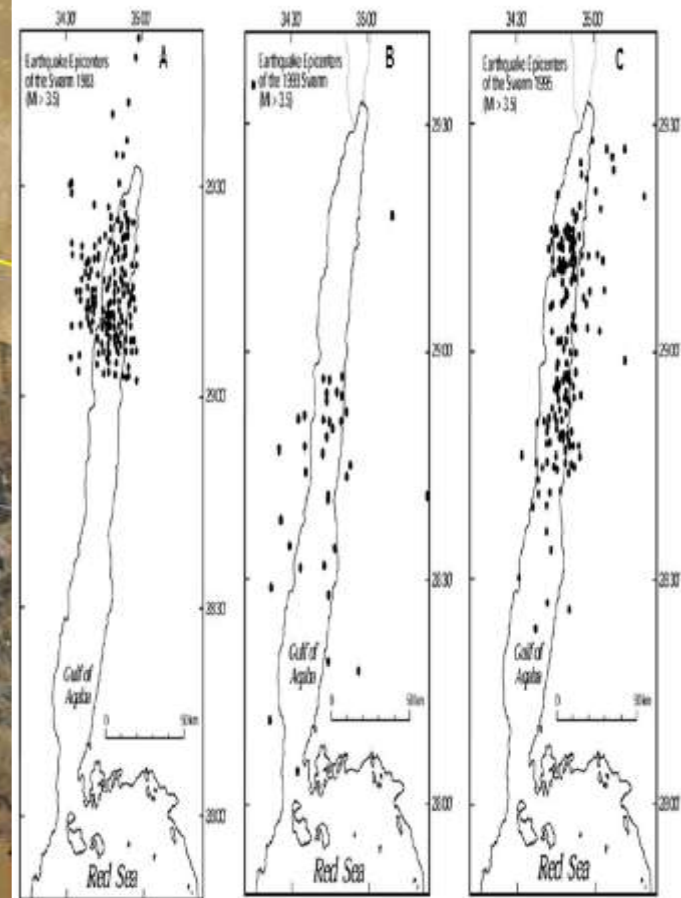
**Technological hazards**



# Hazard profile (Fact sheet)

## Earthquakes

- The last earthquake hit the city was in 1995 Earthquake
- 6.2 magnitude
- Lasted for 40 sec
- No casualties
- Small damages to the buildings and infrastructures





## ASEZA DRR Practice, and Tools

The city of  
Aqaba is aiming  
to be a role  
model city in  
DRR practice  
and  
institutionalizer  
at the local  
government  
level



## ASEZA'S DRR Practice

ASEZA and other related agencies

response

Recovery

emergency

ASEZA Role in DRM

mitigation

preparation

Build capacity



# Why DRR in the city of Aqaba ?

Protecting investments

Minimizing losses and damages from Hazards

Building local capacity

Build back better during recovery

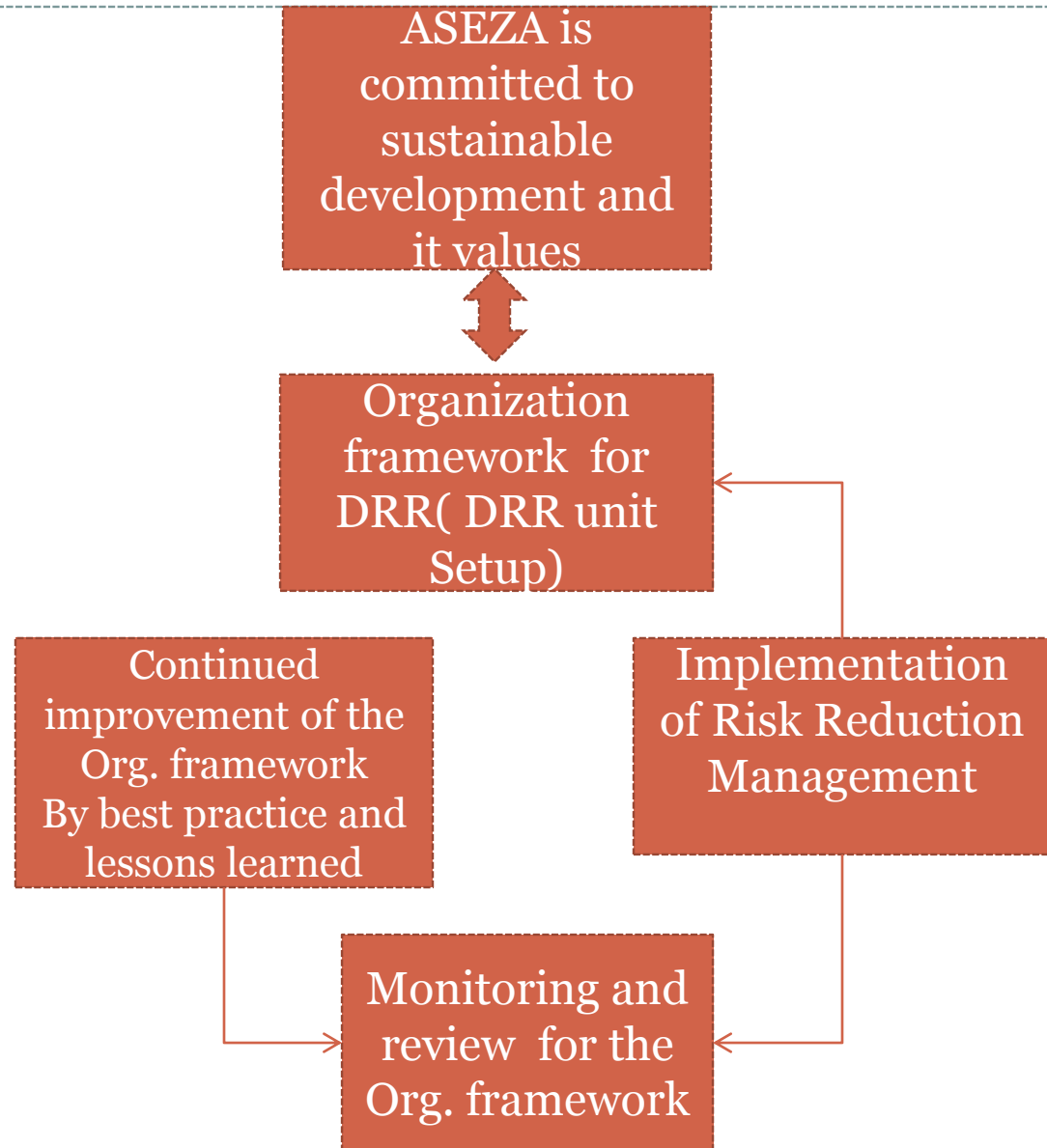


## How we do it?

By Integrating  
DRR into  
Development  
process

Through The  
ASEZA'S  
Framework &

Processes for  
Disaster Risk  
Reduction



## ASEZA'S DRR Practice

Guided by HFA-1 to implement it at the local level .

The EMI model Allows for better partnership and community participation

### The Goal is

- to Integrate DRR Principles into ASEZA'S existing business processes and to close the gaps to make the City of Aqaba a resilient city using the EMI model for mainstreaming



## AESZA DRR Practice

### Implementing HFA-1 at the local level

HFA-1 Ensuring DRR is a local priority with strong institutional basis for implementation

4 DRR tasks at the local governance level(HFA Priority-1 related) were implemented by ASEZA

- **Engaging in a multi-stake-holder dialogue to form basis for DRR**
- **Strengthening Mechanisms for systematic DRR coordination**
- **Assess and develop the Institutional & Legal basis for DRR**
- **Prioritize DRR and Allocate Appropriate Resources**

# ASEZA'S Tools for DRR

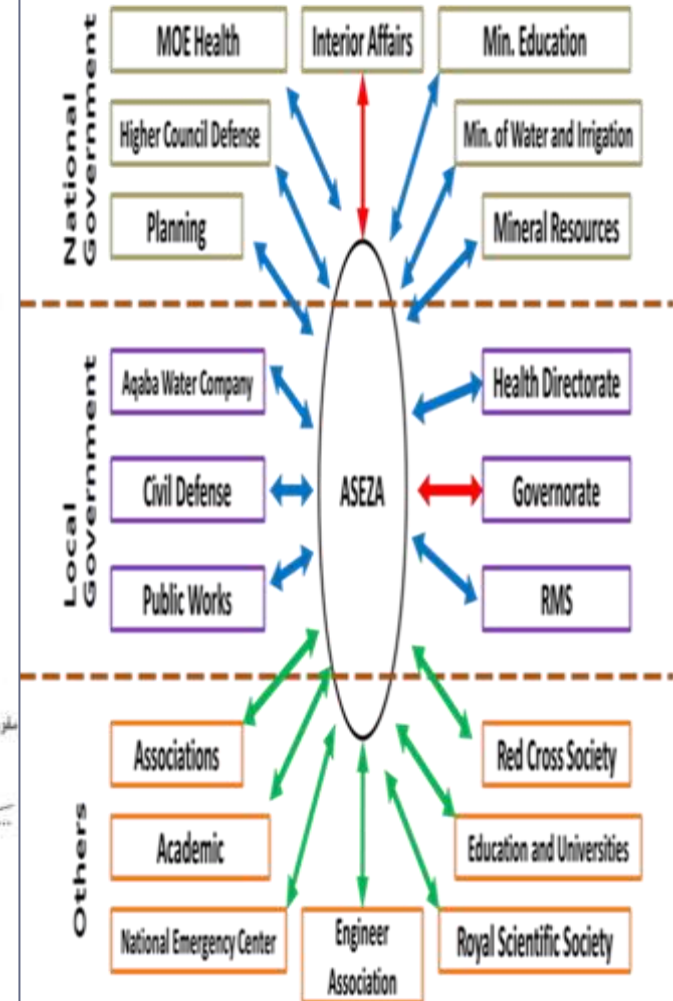
for the Institutionalization of DRR into the Governance System

Task 1. Engaging in a multi-stakeholder dialogue to form basis for DRR

## Political Commitment



## Functional multi stakeholder platform



## ASEZA'S Tools for DRR

for the  
Institutionalization  
of DRR into the  
Governance System

- Establishing the context for DRR practice locally  
Legal & legislative contexts (*what we are trying to do*)

The Civil Defense law 1999  
ASEZA Law No. 32 year 2000

Local Defense  
Committee chaired by  
the Governor

ASEZA DRR  
Established Unit

ASEZA DRM Committee  
established by the  
Governor

International  
Standards



## ASEZA'S Tools for DRR

Institutionalizing  
Disaster Risk  
Reduction into  
ASEZA Governance

**Task 4 :**  
**Prioritize DRR**  
**and Allocate**  
**Appropriate**  
**Resources**

Support to the National Capacity Building to  
Reduce Disaster Risk Reduction project

Risk  
identification

Risk Analysis

Risk  
Evaluation

Accepting the risk by ASEZA and  
acting Accordingly

Enhancing the Institutional Capacity to Reduce  
Disaster Risk and integrate Climate Change in Jordan  
Project( planning for the DRR measures)

DRR unit  
administrative  
Setup

Revise  
planning  
process

piloting DRR  
projects

allocate resources ASEZA annual Budget

## DRR Pactice

### Institutionalizing Disaster Risk Reduction into ASEZA Governance

### Setting up a DRR unit within ASEZA organizational structure

- Establishment of A DRR unit within ASEZA Structure with an official mandate and a clear role and capacities;
- Participatory approach and partnership with stakeholders (private sector, NGO'S CBO'S, other related governmental institutions

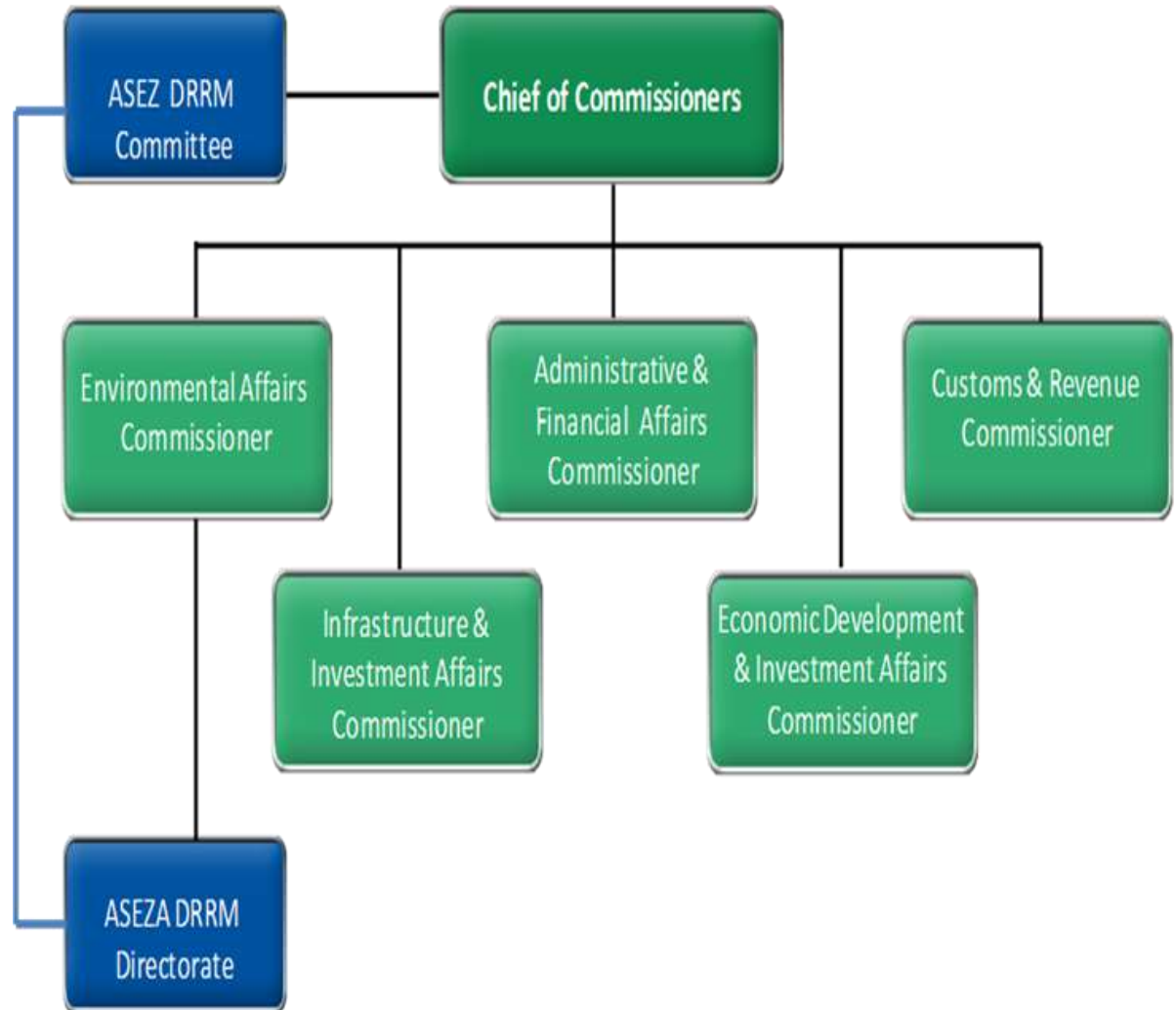


### The Mission of the unit

**Plan, undertake, coordinate, support and monitor disaster risk reduction and management activities in an efficient and coherent manner within ASEZ and in conformity with the concept of mainstreaming.**

## DRR Practice

# ASEZA'S Organization Structure



## HFA Priority 4 related

### Local \city – level DRR Tasks

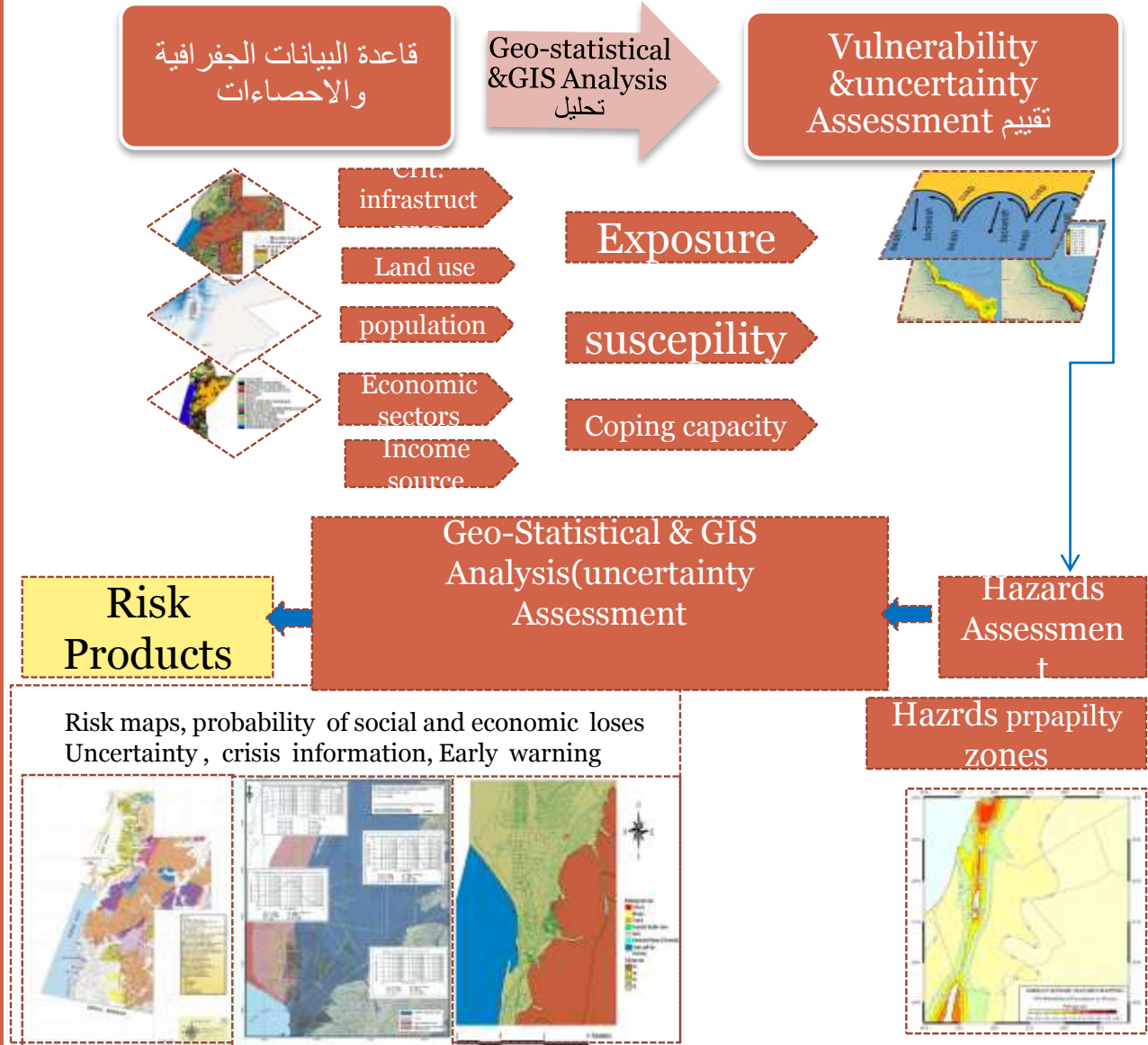
### Vulnerability Reduction Tasks:-

- ASEZA is mainstreaming DRR into the following tasks to reduce vulnerability at the local level
- ✓ The Physical planning process
- ✓ Environmental Management
- ✓ Economical development
- ✓ Building safety and codes
- ✓ Economical instruments (CBA)

# ASEZA'S Tools for DRR

## Vulnerability Reduction Tasks

(ASEZA is modeling its local risk to produce its own risk Products (like risk maps( Micro-zoning maps , hazards plans, element at risk maps



## ASEZA'S Tools for DRR

The 10 essentials of “My city is getting ready”

Are used to monitor progress in DRR at the local level

Institutional & Administrative Framework

• DRR unit administrative set up

Financing & Resource

• Funded NEX projects

Multi-hazards Risk Ass.

• Knowing the risk (ADRRMP)

Infrastructures Protection, upgrading

• Flood protection plan

Protect Vital Facilities

• Critical Facilities maps

Building Regulation & land use planning

• ASEZA Master plan, Bldgs. Regulations

Training, Education, Public Awareness

• NDV'S Approach

Environmental protection

• ICZM, EIA

Effective Preparedness, Early warning

• FF EW System

Recovery & rebuilding Communities

• Build back Better after FF

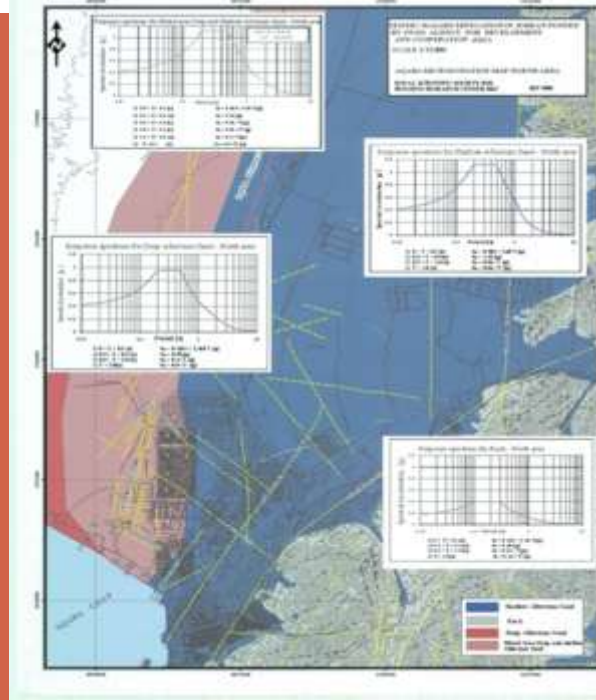


# ASEZA'S Tools for DRR

Economical instruments (CBA)

The Shallah informal settlement Case study

Transferring Vs. upgrading



## DRR Activities

The NDV's pilot project (CBDRM)

EOC establishment

Training of Engineers on Critical Facilities retrofitting

Sequencing DRR projects

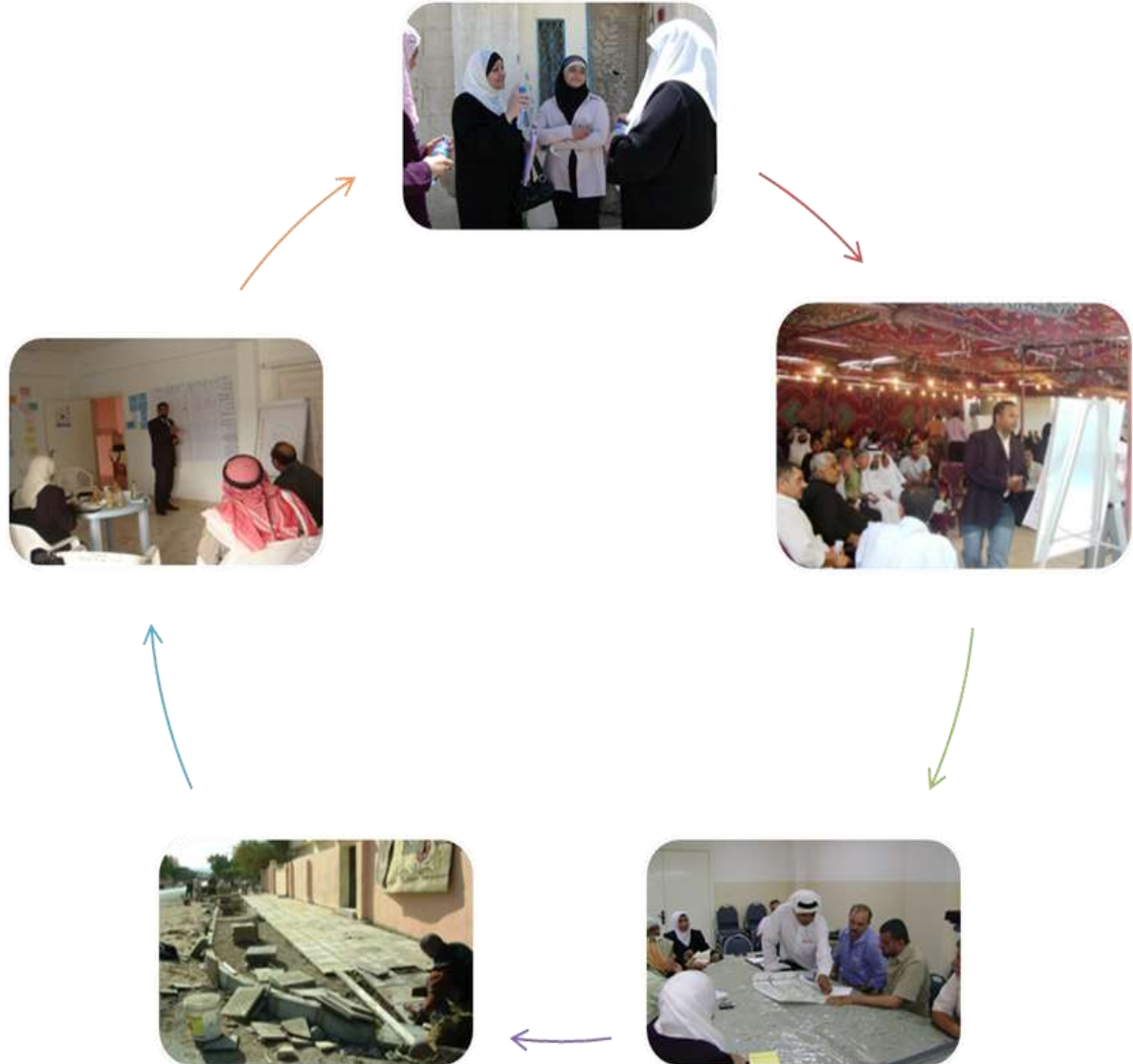
Sharing experiences by facilitating regional platforms



## ASEZA'S DRR Tools

Outreaching and communicating the risks among locals;

Public awareness campaigns to communicate non-structural approaches



## ASEZA'S DRR tools and Practice

Sharing the  
experience and  
lessons learned  
from the Aqaba  
Case Study

- Political Support and Interest of policy makers in DRR is very essential for Successful legal framework and legislations
- Building local capacity and competency in DRM
- Public awareness in DRR to built the prevention culture among society
- Involve the Civil Societies and NGO's and the private sector in process and advocate DRR locally
- Allocate resources and funding's for DRR
- DRR is both top-to bottom(governmental ) and down-up approach (Community-based)

# Key faced challenges

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- **AWARENESS & EDUCATION IN DRR;**
- **MAINTAINING THE POLITICAL INTEREST AND SUPPORT;**
- **MANAGING AND COLLECTING DATA ABOUT HAZARDS**
  
- **APPLYING THE MICRO-ZONING MAPS ON THE EARTHQUAKES ZONE AREAS AND FLOOD PRONE AREAS ON THE CURRENTLY UNDER IMPLEMENTATION LAND USE PLAN**
- **POST AUDIT ON BUILDINGS AND FACILITIES**



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## THANK YOU FOR YOUR ATTENTION

[kaboaisheh@aseza.jo](mailto:kaboaisheh@aseza.jo)

[kaledasheh@yahoo.com](mailto:kaledasheh@yahoo.com)

[www.aqabazone.com](http://www.aqabazone.com)

+ 962 79 99 39 493

Sources : [www.dlr.de/eov/en](http://www.dlr.de/eov/en)

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