









Objective of this session

- Distinguish between the four dimensions of the disaster effect
- Identify typical examples of the disaster effect

The PDNA Process



- Pre-Disaster contextbaseline of social, economic, cultural, financial, political status
- Infrastructure and assets
- Production of goods and services
- Governance processes
- Increased risks

What is the Disaster Effect?

The disaster effect refers to the **immediate** results of the event that is to be assessed.

Activity 1

- At your table, come up with a list of examples of possible disaster effects
- Identify at least 5 examples

What is the Disaster Effect?

Refers to the immediate results of the event that is to be assessed.

It is expressed
in quantitative and
qualitative terms,
by sector, geographic
divisions and gender, age,
ethnicity.

This should be evaluated for each disaster-affected area and for each the sector. Aggregation of total effects follows a bottom up approach.

DAMAGE

TO INFRASTRUCTURE AND PHYSICAL ASSETS



DISRUPTION

OF ACCESS TO GOODS AND SERVICES



DISRUPTION

TO GOVERNANCE AND DECISION MAKING PROCESSES



INCREASED

RISKS AND VULNERABILITIES





Damage to infrastructure and assets

Number, size, typology, construction material of physical assets, including **buildings and their contents**.

Ownership of physical assets: public, private and community.

Level of Damage occurred during, or immediately after the event. Total or partial destruction.

Monetary value of the damage is expressed as the replacement costs according to market price prevailing just before or immediately after the disaster.



Disruption of production & access to goods and services

Disruption of basic service delivery as well as declined quality of basic service delivery.

Constraints
faced by
households
and
communities
to access
services and
goods.

Occur for a relatively long time period until restoration of service is achieved.

Valued at current price of additional costs incurred for accessing services.

Examples: Effects on production of goods and services and access to goods and services

Decline on output of the productive sectors associated with damage to infrastructure and assets:

- Foregone income due to lower production,
- Loss in income and revenue (public & private)
- Higher operating and unit costs

Availability and quality of the delivery of basic services:

- Water and energy supply
- Health and education facilities
- Temporary shelters

Loss of access and constraints suffered by individuals, families and communities in meeting basic needs after a disaster:

- Physical constraints to access such as debris and damaged roads
- Non-physical constraints via a vis the purchasing power of households

Occur over a long time period (from disaster until recovery)



Disruption to governance and decision making processes

 Effects of the disaster on management and administrative functions. Additional functions and capacities of national and local government to respond to emergencies and lead recovery process. Disruption in community governance process.

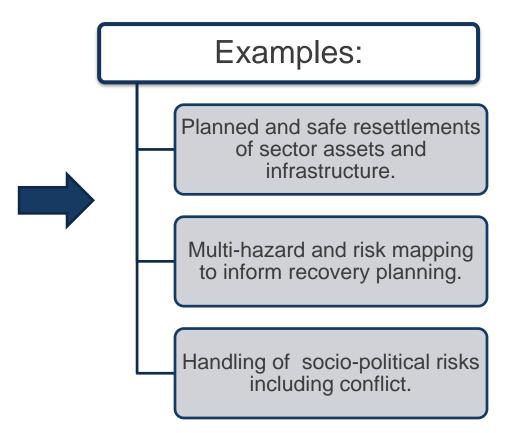
Effects on Increased risks and vulnerabilities



Increased risks and vulnerabilities

Assess immediate disaster risks to avoid emerging threats and/or deteriorating conditions

Assess pre-existing or underlying vulnerabilities that became apparent in the sector during the disaster



Sources of Information for Effects

- **Primary sources:** collected by government in the form of surveys, field visits and direct inquiry / interviews, consultation with key informants, as appropriate or needed, focus groups discussions.
- Secondary sources: surveys undertaken at sector level after the disaster (emergency humanitarian needs assessments is done by local and international first responders), situation reports, media information.

Baseline data is also important to determine the overall impact of the disaster across all sectors. Sector teams gather data on pre-disaster baseline conditions pertinent to their sector.

Total Disaster Effects

- The aggregation of sectorial damage and loss estimates including disruption of services, governance functions and increased risks.
- It uses qualitative and quantitative descriptors

Example: Effects on the health sector

Infrastructure and physical assets	Production and access to G&S	Governance and decision making	Increased risk and vulnerabilities
 Facilities fully destroyed Facilities partially destroyed Equipment Furniture Medications and supplies 	 Loss of revenue Demolition and rubble removal Higher number of patients due to injured during the disaster 	 Analysis of epidemics Lack of personnel/staff 	Vulnerability analysisConsiderations for retrofitting

Key take-aways

- The disaster effect refers to the immediate results of the event that is to be assessed and is expressed in quantitative and qualitative terms disaggregated by sector, geographic divisions, and where possible gender, age and ethnicity.
- The disaster effect encompasses four dimensions:
 - 1. Damage to infrastructure and physical assets
 - 2. Disruption of access to goods and services
 - 3. Disruption to governance and decision making processes
 - 4. Increased risks and vulnerabilities.

Discussion

