

COVID-19 & Disaster Risk Management

Sumedh Patil, OSD - GIDM





Objective

At the end of the Session participants will be able to:

- 1 DRM perspective of COVID-19
- 2 Risk Analysis: HVCRA to COVID-19
- 3 Role of School Community for Mngt. Of COVID-19



Disaster

A serious **disruption** of the functioning of a community or a society at any scale due to **hazardous events** interacting with conditions of **exposure**, **vulnerability** and **capacity**, leading to human, material, economic and environmental losses and impacts.



DISRUPTION & DAMAGE



Understanding Disaster Risk

HAZARDS



Floods



Cyclone



Tsunami



Earthquake



Fires



Heatwave



Virus

Hazard is a process, phenomenon or human activity that *may cause* loss of life, injury or other health impacts, property damage, social and economic disruption or environmental degradation.



Fires



Viral Fever



Rains

HAZARDS



DISASTER



Understanding Disaster Risk

Exposure is the situation of people, infrastructure, housing, production capacities and other tangible human assets *located in hazard-prone areas.*

ALL EXPOSED



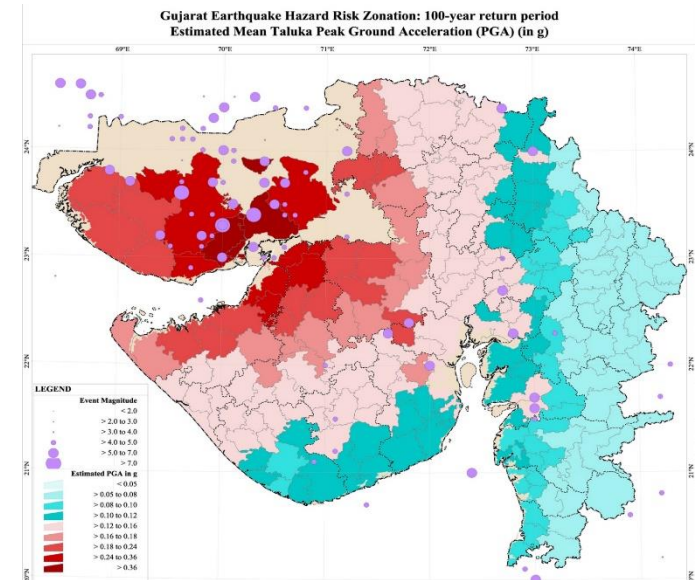
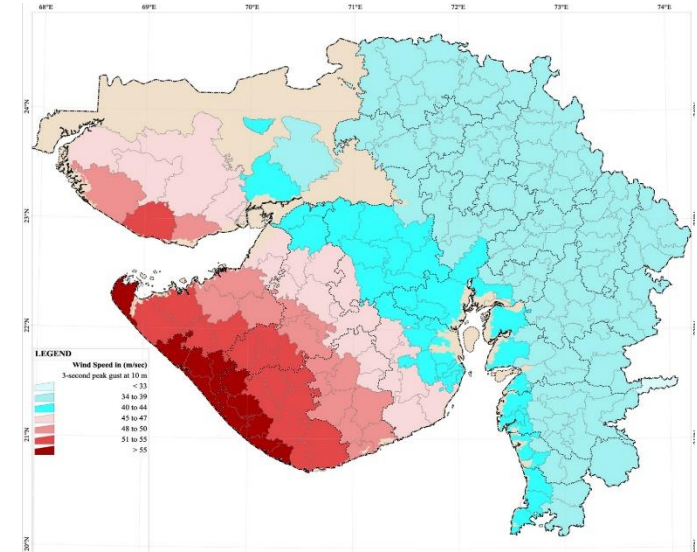
ALL DAMAGED



EXPOSURE



Earthquake & Cyclone Prone region

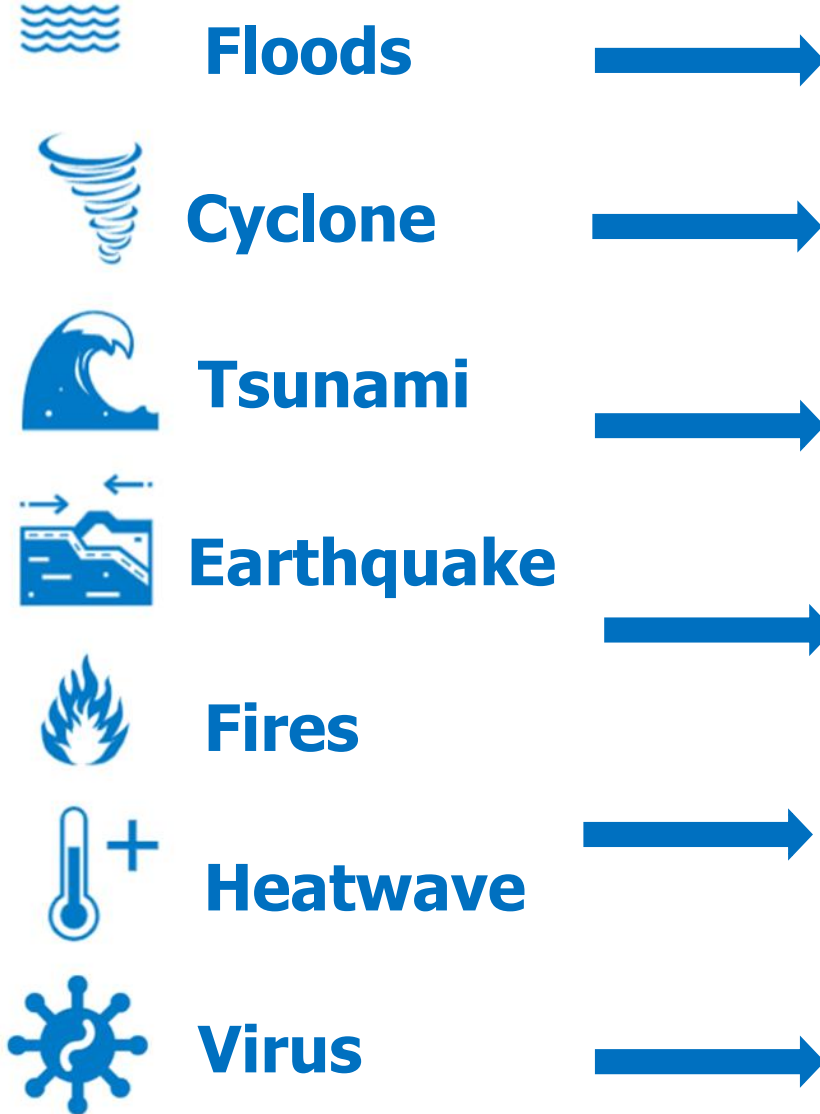




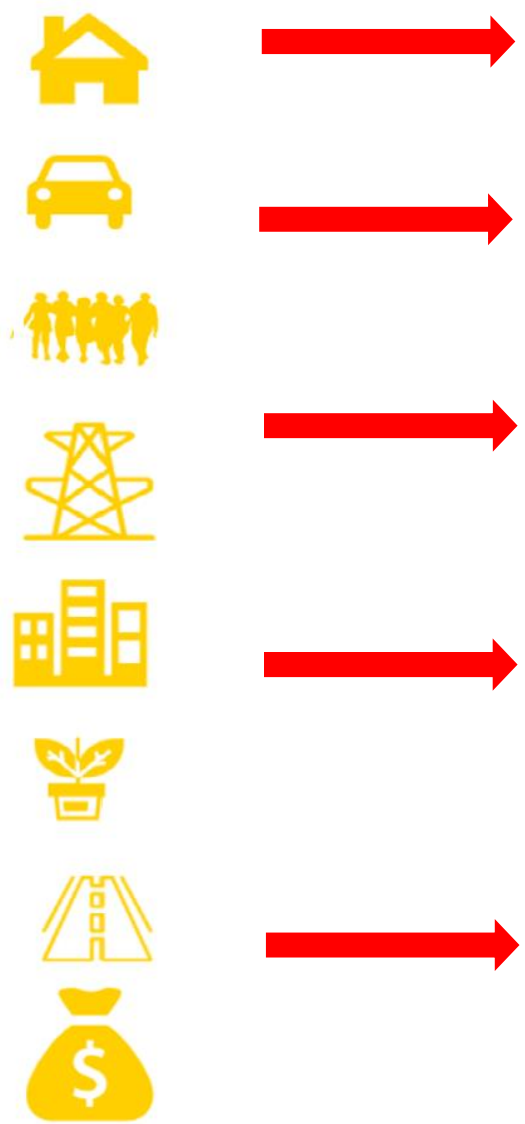
सत्यमेव जयते

Understanding Disaster Risk

HAZARDS



EXPOSURE



DISASTER

Understanding Disaster Risk

VULNERABILITY

Vulnerability is the conditions determined by **physical, social, economic** and **environmental** factors or processes which **increase the susceptibility** of an individual, a community, assets or systems to the impacts of hazards.





Understanding Disaster Risk

Capacity includes infrastructure, institutions, human knowledge and skills, and collective attributes such as social relationships, leadership, management and resources available within a society to ***manage disaster risks.***

COPIING CAPACITY



- portable radio
- flashlight
- spare batteries
- helmet/protective hood
- emergency rations (3-day supply)
- drinking water
- lighter/matches
- tissues/toilet paper
- knife/can opener
- spoons/chopsticks/cups
- writing supplies/ notepads
- underwear/socks
- emergency medical supplies/first aid kit
- money (including both coins and paper money)
- towels
- gloves
- rain gear/ umbrellas
- blankets/ sleeping bag



Disaster Risk & Reduction

Disaster Risk \propto

Hazard X Exposure X Vulnerability

Coping Capacity

**Disaster Risk
Reduction** \propto

Reduce Hazard X Reduce Exposure x Reduce Vulnerability

**Increase
Coping Capacity**



Disaster Risk Management

Community-based disaster risk management promotes the involvement of potentially affected communities in disaster risk management at the local level.

This includes community assessments of hazards, vulnerabilities and capacities, and their involvement in **planning, implementation, monitoring and evaluation of local action for disaster risk reduction.**

Role of Youth and Volunteers



Local Level Action Plan for DRR

- Assess and Reduce Hazard
- Assess and Reduce Vulnerabilities
- Assess and Reduce Exposure
- Assess and Increase Capacity (EWS)



COVID19- HAZARD



Action Plan to Reduce Hazard

- Hand Washing
- Disinfection Facility
- Physical Distancing
- Sealing of Campus /
- 14 Days Quarantine / Isolation
- Public Awareness



Disaster Risk Management – COVID19

COVID19- EXPOSURE

Hazard Exposure

- Human-to-human transmission.
- Transmitted mainly through respiratory droplets that get generated when people cough, sneeze, or exhale.
- Transmitted by touching, by direct touch and through contaminated surfaces or objects and then touching their own mouth, nose, or possibly their eyes.
- Close contact with a suspect/confirmed COVID-19 patient or who care for such patients.

Action Plan to Reduce Exposure

- Know in Details about the Containment zones
- Communicate the information about containments zones
- Avoid yourself and others getting into containment zones / High risk zones like hospitals
- Social Distancing
- Maintain a distance of minimum 1 meter from others
- Use of PPEs and Respiratory Hygiene



Physiological Vulnerability

Diabetes, Hypertension, Lung Disease, Heart Disease, TB, Age-old; Physically Handicap

Socio Economic Vulnerability

Migrant Labourers, Economically Weaker Section, People Working in unorganised sectors

Occupational Vulnerability

Doctors, Health workers, Police, Sanitation Workers, Emergency and Essential Service Providers

Attitudinal Vulnerability

Neglecting Infection Risk
No Wearing Masks
Reluctant to follow Hand Wash / Sanitization Procedures

Demographic Vulnerability

Children, Elderly etc.

Action Plan to Reduce Vulnerability

- Identify the high risk groups
- Help them to isolate themselves
- Supply essential services/ medicines
- Quarantine facilities
- Communicate Risk
- Use of Technology to join vulnerable groups with Support Services



Household & School Level

- Soap & Water
- Hand Sanitizers
- Masks
- Separation Strategy
- *Arogya Setu* App
- Awareness

Patient Treatment Capacity at District Level

- Hospitals / Beds / Ventilators
- Patient Treatment Capacity
- Testing Capacities
- PPEs
- Availability of Doctors, Nurses, Paramedic Staff, Police, Sanitation Staff

PPEs for Health Care Workers

- Goggles,
- Face-shield,
- Mask (Triple layer medical mask; N-95 Respirator mask)
- Gloves, Coverall/gowns, Head cover and
- Shoe cover.

Decontamination & Recovery

- Spraying disinfectants & Cleaning
- Volunteers Adaptation of local business
- Quarantine Places

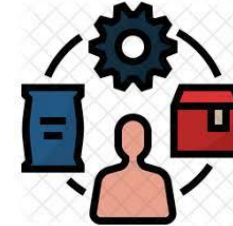
School Capacity

- Leaderships (Principal / Teachers/ Students)
- School DRM Plan with COVID -19 Management
- Awareness Levels, Termination
- Systems and Operating Procedures

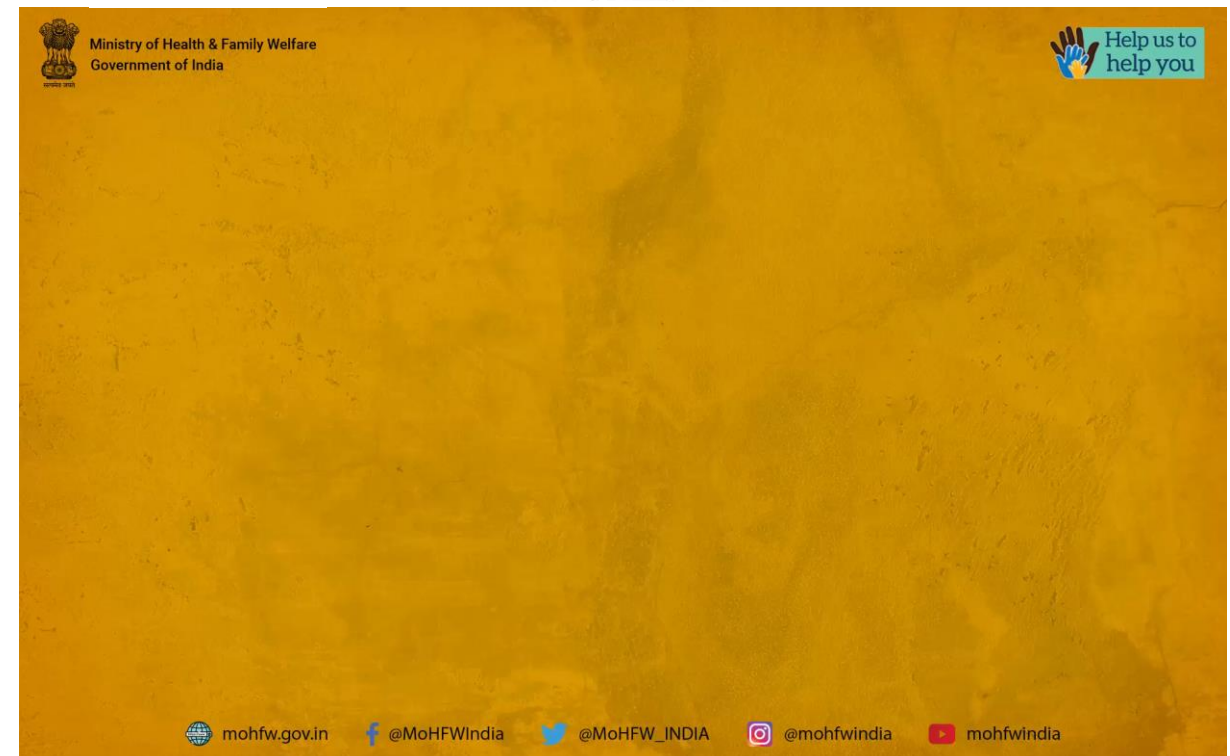


Role of School Community – COVID19 Warriors

- Awareness of Children to use mask and Handwashing
- Developing systems to avoid physical proximity
- Proper Ventilations of Classrooms / Avoiding Closed Places
- Regular Disinfecting Plan
- School DRM plan – Worst Case Scenario



COVID
Warriors



Protect Yourself while Helping Others



Fight Info-demic

- Trust only Authentic Sources of Information
 - Ministry of Health and Family Welfare
<https://www.mohfw.gov.in/>
 - Ministry of Home Affairs
<https://www.mha.gov.in/>
 - National Disaster Management Authority
<https://www.ndma.gov.in>
 - Press Information Bureau of India
<https://pib.gov.in/factcheck.aspx>

Ministry of Health & Family Welfare
Government of India

NOVEL CORONAVIRUS DISEASE
(COVID-19)

Help us to help you

Share facts 😊

Not fear 😞

We all are together in this fight
against **COVID-19**

Together we will fight COVID-19

For information related to COVID-19
Call the State helpline numbers or Ministry of Health and Family Welfare, Government of India's 24x7 helpline numbers
1075 (Toll Free) or 011-23978046, Email at ncov2019@gov.in, ncov2019@gmail.com

[mohfw.gov.in](https://www.mohfw.gov.in) [@MoHFWIndia](https://www.facebook.com/MoHFWIndia) [@MoHFW_INDIA](https://twitter.com/MoHFW_INDIA) [mohfwindia](https://www.youtube.com/channel/UCmohfwindia) [@mohfwindia](https://www.instagram.com/mohfwindia)



Beware of Fake 'Registration Form' links

Always visit the official Embassy Website to Register

USA rescue flight Form: <https://forms.gle/EcDvEcJ5S5er3RDZA> Canada rescue flight Form: <https://forms.gle/hMqBWUBp8uzKYSae7> Australia rescue flight Form: <https://forms.gle/fw7Xds2XqRAkyuTj8> INDIA INBOUND: PLEASE REGISTER FOR FLIGHTS FROM AUSTRALIA TO INDIA <https://forms.gle/2BJ5Ae2XgkEhMJAcA> RESQUE FLIGHTS FROM USA TO INDIA : <https://forms.gle/mc05wwb2Gkcmz78e8> Please help us reach as many





COVID19 – Cross Cutting Issues

- Physically Weak / Lower Immunity Children
- Psychosocial Care
- Handwashing and Sensitization of People
- Crowd Control
- Rumour Control
- Stigma Address
- Connecting School with NGOs , Local Groups for assistance service
- Developing logistic supply systems for the physically disabled

Its time for Comprehensive Planning..



Enhancing Preparedness

Hazards	Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec
Cyclone												
Drought												
Earthquake												
Epidemic												
Fire												
Flood												
Heat Wave												
Industrial/ Chemical												
Road/ Train Accidents												
Stampede												
Tsunami												
Legend	High Occurrence				Moderate Occurrence				Low Occurrence			

Are we prepared for Next Probable Hazard ?



Questions