



# **WEB BASED DAMAGE AND NEED ASSESSMENT**

**ECRRP-D1 Project**

**Department of Disaster management(DDM)**

**Ministry of Disaster Management and Relief**



**The SOD included two way of damage and need assessment:**

- **SOS (within 24 hours of disaster event)**
- **D-Form (within two weeks of disaster event maximum by three weeks)**

**Currently both the format fill-up manually and it takes time.**



## The Proposed Systems

### Development of Customize Software for Management of Damage and need Assessment.

- ✓ Development of Customize Software for Management of Damage and need Assessment
- ✓ Web Based Hazard ,SOS and D-Form Based Information
- ✓ Entered data will be stored on database with Geocode of each administrative (Division, District, Upazila and Union) unit.
- ✓ User interface forms will be developed by page by page integrated with data validation system. Picture uploading option to be provided in each type of form
- ✓ Calculate Damage and Loss with providing option of present valuation of goods, properties etc
- ✓ Report Generation with Graphs and Pictures
- ✓ Provide site map (architecture) of the total system



# Software Execution Plan

Report Flow/Flowchart

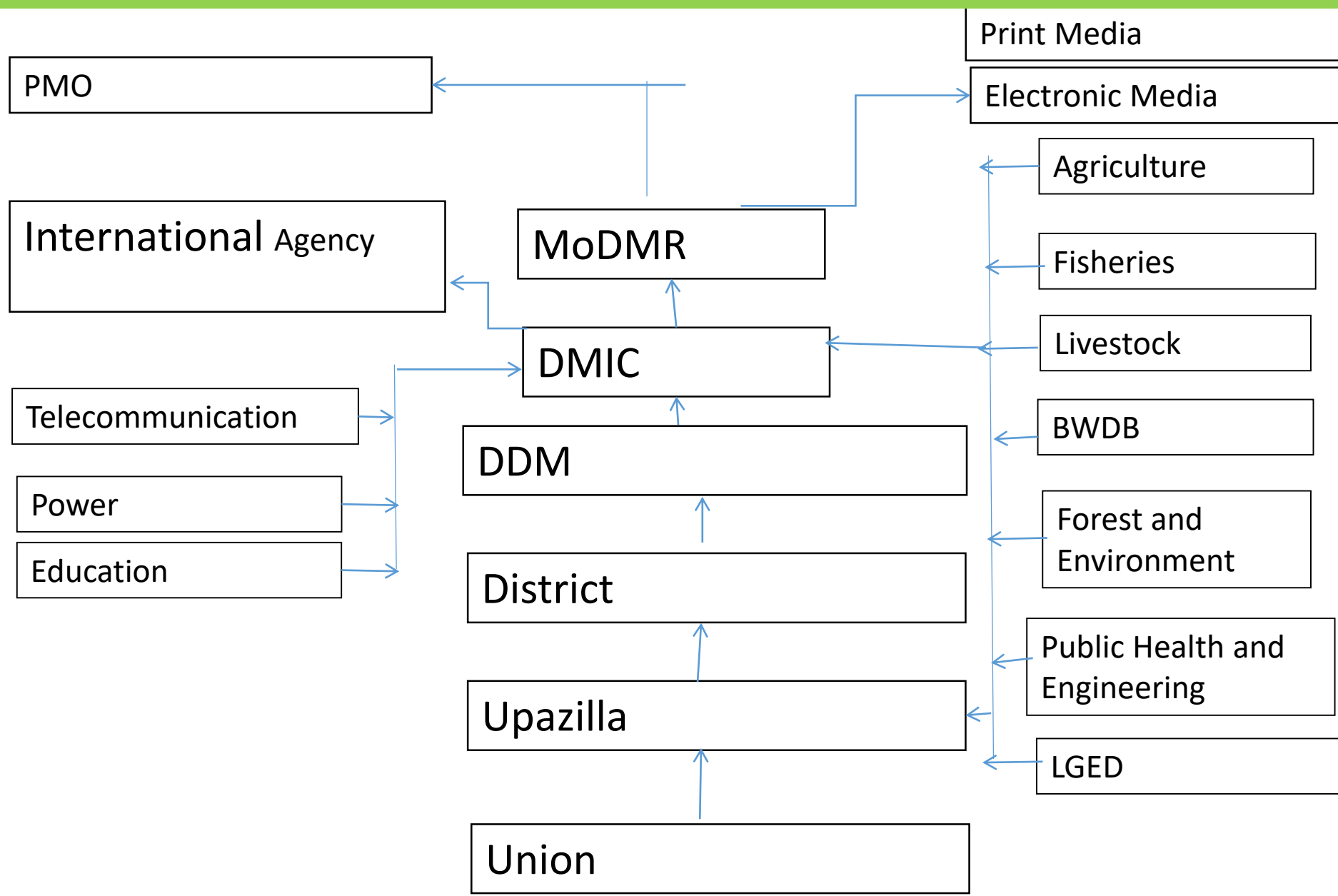


# Output of the Application

## Major Hazards Types and Impacts

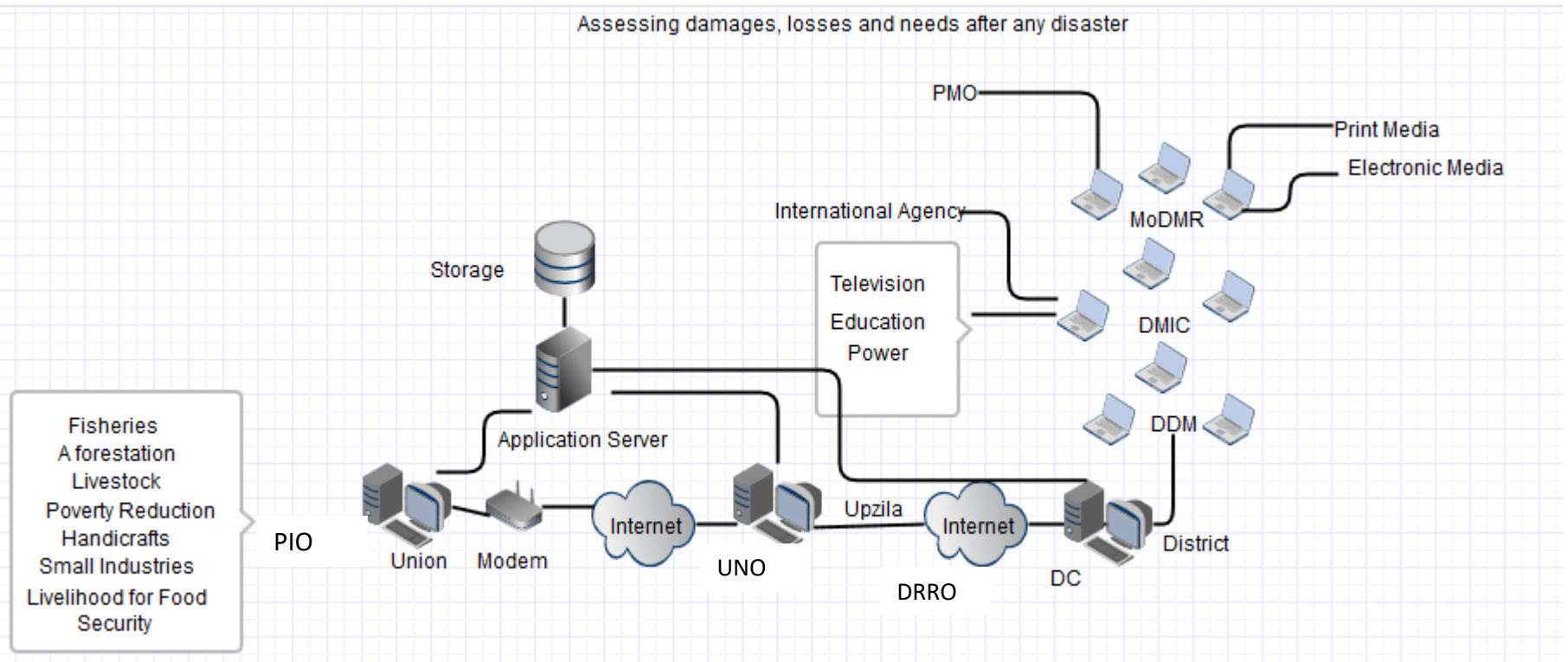
- **Flood**
- **Cyclone & Strom surge**
- **River bank erosion**
- **Earthquake**
- **Drought**
- **Salinity intrusion**
- **Arsenic contamination**
- **Industrial hazards**
- **Fire**
- **Tsunami**
- **Seasonal unemployment (Monga)**

# Damage and Need Assessment Report Data FLOW





# Assessing damages, Losses and needs after any Disaster





## Hazard wise Report

# Damage & Loss of Cyclone

Death Toll	3363
Missing Persons	871
Total Affected Districts	30
Worst affected Districts	04
Badly affected Districts	08
Moderately Affected Districts	18
Affected Upazila	200
Affected UP/Municipality	1,950
Affected Family	2,064,026
Affected People	8,923,259
Injured Persons	55,282





# DNA Software

Screen Short

# DNA Software Home Page

Page 1 of 1

# DNA

DAMAGE AND NEED ASSESSMENT SOFTWARE

➤ HOME

OBJECTIVES

REGISTRATION

LOGIN

HELP

## Welcome to DNA Software

"Department of Disaster management (DDM) is the National Body for Multi Sectoral coordination and Collaboration in conducting Post Disaster Damage and Loss Assessment. DDM is responsible for collecting and processing SOS form and Damage information using D(damage)-Form from field level. Standing order on Disaster mandates that upazillas and districts collect data on the damages incurred from a natural disaster using two templates known as SOS form and DForm. These Forms, in its current version contain several column data points to be collected. This includes multiple categories of information to be collected, including details such as types of housing, roads, schools, forests, etc.

Project Implementation Officer (PIO) at Upazila level collects damage data as per D-Form from different unions, compiles and input the information through this website. At district level, all upazilas data are compiled, test, approved and send to the DDM. Save time to complete this process via this websites.



# UNO, DRO and DC Confirmation Screen


**DNA**  
DAMAGE AND NEED ASSESSMENT SOFTWARE

Welcome : **UNO**  
Logout : **X**

Upazilla :	<b>BOALMARI</b>	Hazard :	Flood	Year :	2014	DForm :	dform1_3	<input type="button" value="Search"/>
------------	-----------------	----------	-------	--------	------	---------	----------	---------------------------------------

1	2	3														
<b>NAME OF UPZILLA</b> Boalmari	<b>TOTAL UNION</b> 13	<b>AFFECTED AREA (S.K.M)</b> <table> <tr> <th>CITY AREA</th> <th>VILLAGE AREA</th> <th>CHAR AREA</th> <th>HILL AREA</th> <th>HAOR AREA</th> <th>TOTAL AREA</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	CITY AREA	VILLAGE AREA	CHAR AREA	HILL AREA	HAOR AREA	TOTAL AREA								
CITY AREA	VILLAGE AREA	CHAR AREA	HILL AREA	HAOR AREA	TOTAL AREA											
<b>HAZARD</b> Flood	<b>AFFECTED UNION</b> Amtola, Challisha, Dhakshin Bisiura,	<b>AFFECTED AREA</b> <table> <tr> <th>CITY AREA</th> <th>VILLAGE AREA</th> <th>CHAR AREA</th> <th>HILL AREA</th> <th>HAOR AREA</th> <th>TOTAL AREA</th> <th>APPROVED</th> </tr> <tr> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>1</td> <td>5</td> <td><input checked="" type="checkbox"/></td> </tr> </table>	CITY AREA	VILLAGE AREA	CHAR AREA	HILL AREA	HAOR AREA	TOTAL AREA	APPROVED	1	1	1	1	1	5	<input checked="" type="checkbox"/>
CITY AREA	VILLAGE AREA	CHAR AREA	HILL AREA	HAOR AREA	TOTAL AREA	APPROVED										
1	1	1	1	1	5	<input checked="" type="checkbox"/>										
<b>DATE(DD/MM/YEAR)</b> 1 / 1 / 2014		<input type="button" value="Submit"/>														
<b>DATE RANGE</b> 0																



# D-Form Report



Division	Select Divisions ▼
District	Select District ▼
Upazilla	Select Upazilla ▼
Hazard	Select Hazard ▼
Year	2014 ▲▼
DForm	Select DForm ▼
	<input type="button" value="Search"/>



# D-Form Search Criteria



Division	Barisal ▼	District	Barguna ▼	Upazilla	Amtali ▼	Hazard	Flood ▼	Year	2014 ▼	DForm	Select DForm ▼	Search
----------	-----------	----------	-----------	----------	----------	--------	---------	------	--------	-------	----------------	--------



## Affected populations Graph

**District: Netrokona**

**Upazilla: Durgapur**

### Affected Populations

Population	Affected Population	Dead	Injured
50,00,000	1,00,000	100	5000

UPAZILA MAP  
UPAZILA DURGAPUR  
DISTRICT NETROKONA

