



Regional Experiences on Mechanisms for Loss and Damage

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CDEMA C A R I B B E A N DISASTER EMERGENCY MANAGEMENT AGENCY DOM: DOM:

Damage Assessment and Needs Analysis

* PRE-IMPACT



* HAZARD IMPACT



TIMELINE

For detailed information about DANA continuum and CDEMA, visit: http://www.cdema.org Questions or feedback: rccuser@cdema.org

Designed by OCHA



- **Key Characteristics** Estimates projected impact
- · Estimates population needs (food and water) according to the Sphere Standards
- · Subject to verification in the ISO and IDHNA phases
- · Reports produced before the impact

Conducted by

NATIONAL **AUTHORITIES & CDEMA RCC**

Regional

Coordination Centre

Rapid Overview

Key Characteristics

- Provides general overview
- Seeks areas of higher impact
- Qualitative results
- Reports available within 3 days and shared at the convenience of National Emergency Operation Center (NEOC)

Conducted by



Rapid Needs

Assessments Team

- National and local authorities



Key Characteristics

- Check food, water, shelter, health etc...
- Uses pre-determined form
- · Compare with pre-iimpact baseline data
- · Quantitative analysis results

Key Characteristics

· Reports extent of damage

Provides estimates of cost of early

· Seeks sectoral details

recovery for sectors

· Reports available within 14 days and shared at the convenience of NFOC

Conducted by





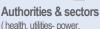
Disaster Assessment and Coordination Team

- National and local authorities

Conducted by







(health, utilities-power, communications, water etc...)



DDS



Sectoral

Level

Sectoral Level

Key Characteristics

- DaLA: Damage and LossAssessments
- HRNA: Human Recover Needs Assessments
- Uses Recovery framework
- · Quantify financial needs for economic recovery

Conducted by

National Officials, UNDP. World Bank

Team compositions may change depending on the emergency and partnerships in place





can change in each emergency

management authorities

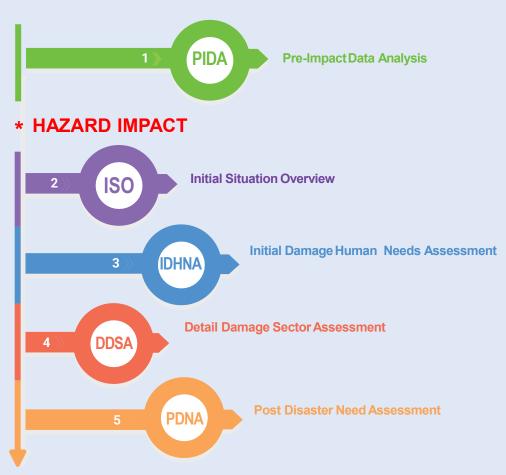
according to the criteria of disaster



DANA

CONTINUUM

Damage Assessment and Needs Analysis







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Conducted by

- NATIONAL **AUTHORITIES**

- CDEMA RCC

Regional Coordination Centre

* HAZARD IMPACT



according to the criteria of disaster management authorities.





* HAZARD IMPACT



Key Characteristics

- Provides general overview
- · Seeks areas of higher impact
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Rapid

Overview

• Reports to NEOC/RCC

Conducted by



- RNAT Rapid Needs

Assessments Team

- National and local authorities.

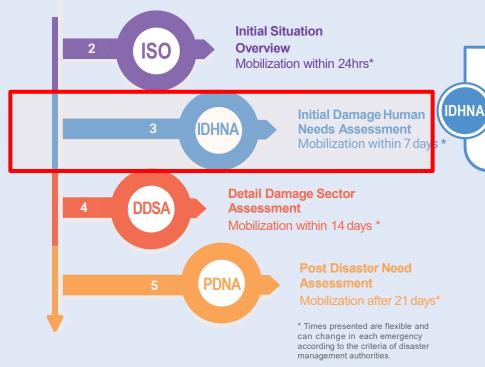


management authorities.





* HAZARD IMPACT



Key Characteristics

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Household

Level

- Check food, water, shelter, health etc...
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- Compare with pre-impact baseline data
- Quantitative analysis results

Conducted by

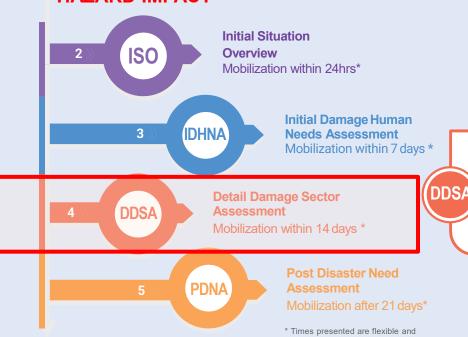
- CDAC
CARICOM
Disaster Assessment
and Coordination Team

- National and local authorities





* HAZARD IMPACT



Sectoral Level

- Seeks sectoral details
- Reports extent of damage
- Provides estimates of cost of early recovery for sectors

Conducted by

National

Authorities & sectors

(health utilities-power

(health, utilities-power, communications, water etc...)

* Times presented are flexible and can change in each emergency according to the criteria of disaster management authorities.





* HAZARD IMPACT



^{*} Times presented are flexible and can change in each emergency according to the criteria of disaster management authorities.

PDNA

Sectoral

Level

Key Characteristics

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- HRNA: Human Recover Needs
 Assessments
- Uses Recovery framework
- Quantify financial needs for economic recovery

Conducted by

National
Officials, World Bank,
UNDP

Team compositions may change depending on the emergency and partnerships in place



CDEMA DANA CONTINUUM

Damage Assessment and Needs Analysis

* PRE-IMPACT



* HAZARD IMPACT



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Conducted by



Regional

Coordination Centre



Key Characteristics

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Conducted by





Rapid Needs

Assessments Team

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- CDAC **CARICOM**

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Level

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Conducted by







Authorities & sectors (health, utilities-power, communications, water etc...)



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Conducted by



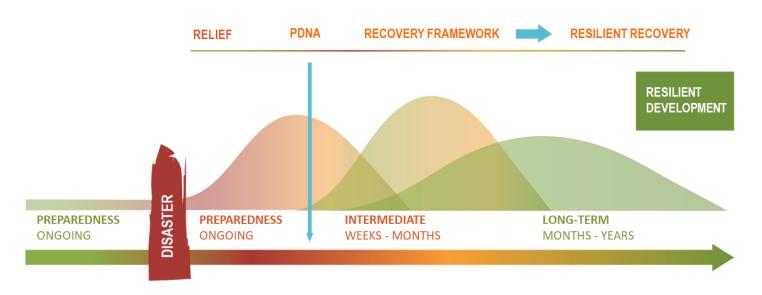
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PDNA Link to Humanitarian Assessments



Resilient Recovery linked to development





Five Step PDNA Methodology

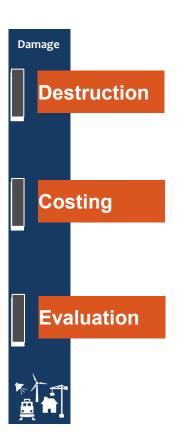


- Baseline information of the sector prior to the crisis /disaster
- How each sector has been affected by the disaster in terms of its infrastructure, production of goods and services and access to goods and services, governance and emerging risks
- Macroeconomic: GDP, balance of payment, & expenditures
- Human Impact: Living Conditions, Gender equality, Food Security Social inclusion
- lincluding BBB and DRR/ Sustainability
- Policy recomedations including implementation strategy





Damage



Refer to the total or partial destruction of infrastructure and physical assets

Its cost is estimated at the replacing or repairing market prices prevailing just before the disaster

Damage is valued first in physical terms (number of houses of a specific typology, Km of roads or pipelines, size and types of schools or hospitals); and then in terms of their monetary value.





Loss



Economic loss refers to changes in economic flows arising from the disaster

These changes in flows continue until the achievement of full economic recovery and reconstruction, in some cases lasting for several years.

Loss is expressed in current monetary values.





From Damage and Loss to Recovery Needs

RECOVERY NEEDS

From DAMAGE estimates REPAIR/REHABILITATION

From LOSS estimates RESUMPTION/RESTORATION

<u>Value of Damage</u> + Cost of quality improvement + Technological modernization + BBB features + Multi-annual inflation + operational costs Cash grants to micro-enterprises, provision of free access to key services (health, education), temporary shelter scheme, replacing lost records and digitalizing databases

- Typically most infrastructure & assets damaged are translated into needs with BBB
- Not all loss is translated into needs, loss of income cannot be compensated, this translates into needs for credit support or grants to revive business
- Needs can be items which facilitate recovery and reconstruction, costs for human resources, management, skilling and retraining, etc
- Effects which are not quantified can be turned into needs such as assistance to all vulnerable groups.





Challenges and Opportunities

Challenges

Limited baseline data

Limited expertise required to conduct adequate damage assessments

Financing

Opportunities

Baseline studies conducted before a disaster

Training on PDNA methodologies

Education and outreach





THANK YOU