

#### Sustainability and Resiliency: CdeO Experience and Practices Mallberry Suites, Cagayan de Oro City March 12, 2018



### Sequence of Presentation

- I. Sustainability and Resiliency
- I. TS "Sendong" and the wake up calls left unheeded
- II. Resiliency Programs (Where are we now?)

## I. Sustainability and Resiliency



Sustainability (or sustainable development):

- a. "Able to be used without being completely used up or destroyed" [e.g., raw materials and/or natural resources] – Merriam Webster
- b. "Development that ensures that the use of resources and the environment today does not compromise their use in the future" *UNEP*

# I. Sustainability and Resiliency



#### **Resilience**:

- a. "Ability to become strong, healthy, or successful again after something bad happens." *Merriam Webster*
- b. "Ability to prepare for, withstand and recover from stresses and shocks." – EU Resilience Forum, April 2014

# I. Sustainability and Resiliency

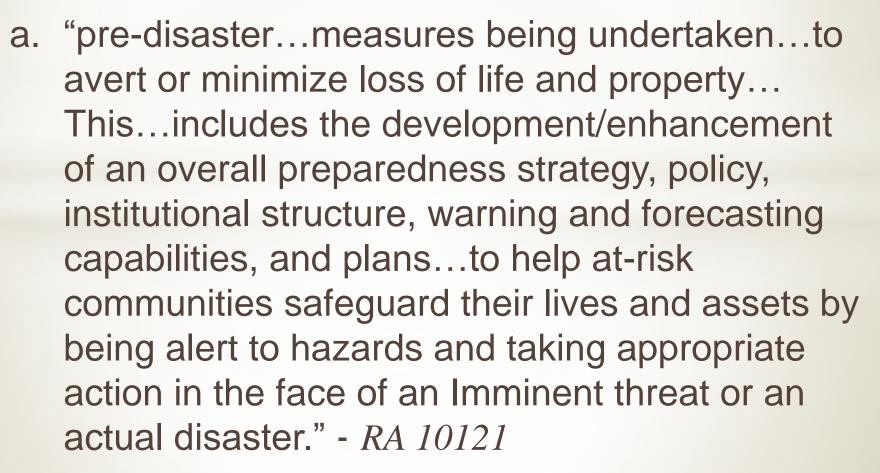


#### Sustainability vs. Resiliency

	Sustainability	Resiliency
•	Starts with a functioning system, and then looks at how long that system can operate without wearing down.	<ul> <li>Starts with a disaster, and then looks at how to clean up afterward. It then considers how to prevent or minimize a future disaster, or at least minimize the negative effects of the disaster.</li> </ul>
•	Aims to put the world back into balance	• Looks for ways to manage in an imbalanced world.

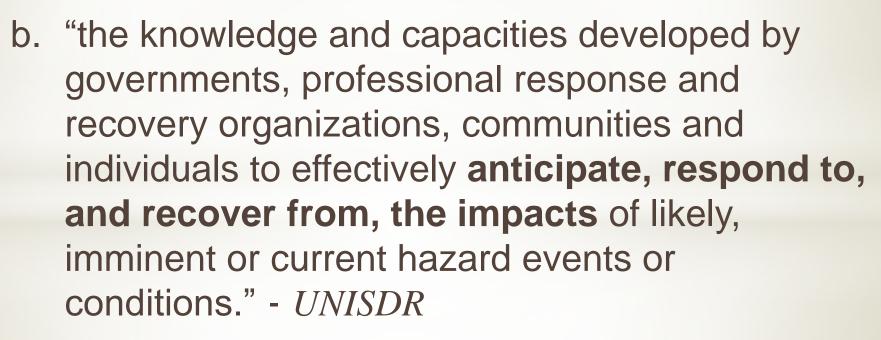
# I. Sustainability and Resiliency





# I. Sustainability and Resiliency







#### **Tropical Storm "SENDONG" (Washi)**

- Date: 16 December 2011
- Rainfall intensity was 19.79mm/hr. (475mm/24 hours)
- 7 to 8-mtr rise of water level from normal high of 4 mtrs. (Cagayan River)
- Affected:
  - Families 38,125 (228,728 persons)
  - Deaths 657 (552 identified); Injured 199; Missing – 396
- Total damages PhP 2,074,316,473.00, plus Loss of economic activities

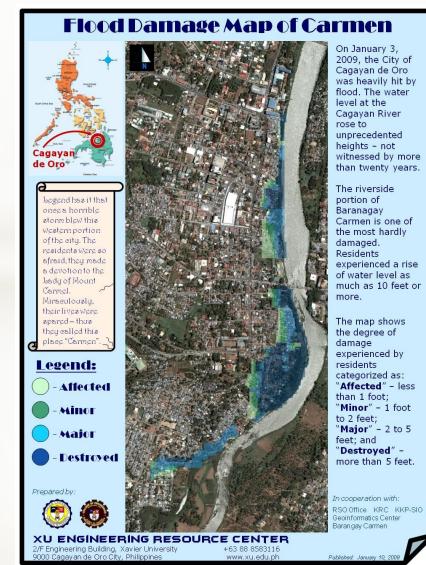


#### **Tropical Storm "SENDONG" (Washi)**

- High exposure
  - Brgy. Macasandig (Cala-cala)
  - Brgy. Balulang (Villa Angela Subd; Golden City Village; Isla Puntod)
  - Brgys. 10, 13, 15 and 17 (Isla de Oro)
  - Brgy Consolacion (Isla Bugnaw, Baksan, & Delta)
- Lack of PREPAREDNESS "did not learn from previous flooding events"

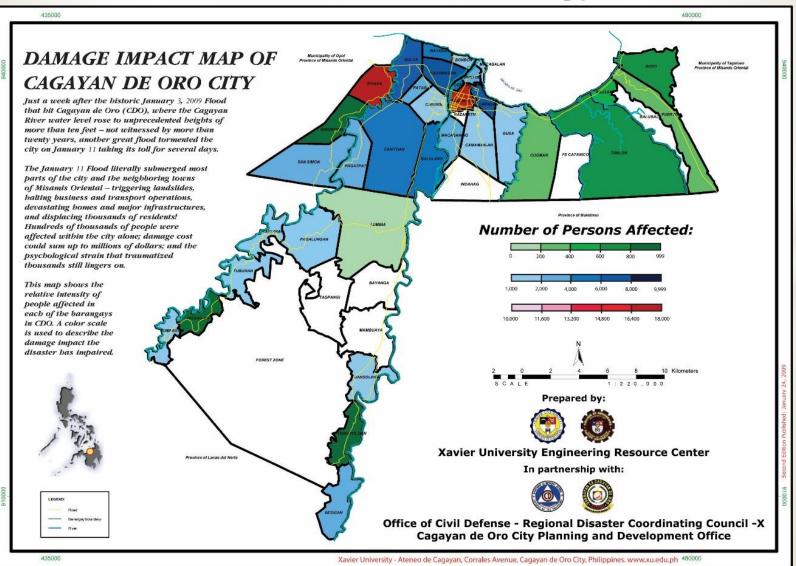


#### Jan 3, 2009 – Flood affected Brgy Carmen





#### Jan 9, 2009 – Flood affected Brgy Carmen





#### Nov 25, 2009 – Flood affected Brgy Macasandig





#### 1. Disaster Prevention and Mitigation: Programs and Activities

	PROGRAMS	ACTIVITIES
1.	Hazard, Vulnerability, and Risk Assessments	Coordination with NGAs (MGB), NGOs, and the academia
2.	Establish and strengthen Early Warning Capability - EWS	<ul> <li>a. Close coordination with NGAs (DOST, PAGASA) and NGOs (WFP)</li> <li>b. Provision of maintenance support to 6 WLGs; 18 RGs; 6 WLG-RG (tandem)</li> </ul>
3.	Flash Flood Alert System	<ul><li>a. Coordination with PAGASA</li><li>b. Provision of maintenance support to 5 FFA Stations</li></ul>



#### 1. Disaster Prevention and Mitigation: Programs and Activities

	PROGRAMS	ACTIVITIES
4.	Disseminate Disaster Information	<ul> <li>a. Coordination with SMART for the establishment of INFOcast (INFOboard)</li> <li>b. Coming up wih Fb page</li> <li>c. Establishment of closer alliance with mainstream media (TV, Radio, and Print)</li> </ul>



PROGRAMS	ACTIVITIES	
1. Strengthen the CDRRM Council	Reorganization of CDRRM Council (EO 026-13)	
2. Strengthen the CDRRM Office/Department	<ul> <li>a. Reorganization of the CDRRMO as mandated by RA 10121</li> <li>b. Upgrading of CDRRM Office to Department (Ord. 13176, s.2016)</li> </ul>	
3. Institutionalize Preparedness and Response	<ul> <li>a. Revision of CDRRM Plan</li> <li>b. Revision of Flood Contingency Plan</li> <li>c. Conduct of PDRA</li> </ul>	



PROGRAMS	ACTIVITIES	
4. Enhance Response Capability	<ul> <li>a. Developing, organizing, and training of Oro Rescue EMS and USAR</li> <li>b. Establishment of Evacuation Protocol for Hydro-Met Hazards</li> <li>c. Establishment of a 24/7 OCA DCC</li> <li>Weather Monitoring Section</li> <li>Tele-Communication hub/facility</li> <li>Emergency Response Center (911)</li> </ul>	



PROGRAMS	ACTIVITIES	
4. Enhance Response Capability (con't.)	<ul> <li>d. Equipping of all operating units</li> <li>e. Organizing and training the BDRRMCs</li> <li>f. Training of the private sectors (schools, business and commercial establishments, etc.)</li> <li>g. Conducting drills (flood; earthquake; bomb and bomb threat)</li> </ul>	



PROGRAMS	ACTIVITIES		
4. Enhance Response Capability (con't.)	<ul> <li>h. Establishment of 150 ECs with designated management personnel from CSWDO</li> <li>i. Training of CDRRMC personnel on ICS to compose the IMT when activated</li> <li>j. Orientation of IMT-qualified personnel on EOC operations</li> </ul>		



#### 3. Disaster Response: Programs and Activities

PROGRAMS	ACTIVITIES
<ol> <li>Heighten public awareness on disaster situation</li> </ol>	<ul> <li>a. Monitoring closely development of weather condition/disturbance</li> <li>b. Disseminating disaster information to threatened communities using all available media (quad)</li> <li>c. Involving mainstream media during EOC weather update briefings (with live coverage)</li> </ul>



#### 3. Disaster Response: Programs and Activities

PROGRAMS	ACTIVITIES
2. Coordinated Response Operation	<ul> <li>a. Implementation of Evacuation Protocol for Hydro-Met Hazards</li> <li>b. Activation of CDRRMC IMT</li> <li>c. Activation of CDRRMC EOC with presence of Heads of Response Clusters</li> </ul>



- 4. Disaster Recovery and Rehabilitation: Programs and Activities
- City Housing and Urban Development Department (CHUDD) was created in December 2016 per Ord. Nr. 13175-2016.
- CHUDD is tasked of providing socialized "decent shelter....to the underprivileged and homeless".



#### 4. Disaster Recovery and Rehabilitation: Programs and Activities

Housing Assistance for "Sendong"

Location	Units/Awarded
Calaanan Phase 1	66 / 66
Calaanan Phase 2 (Fil-Chi) Upper	105 / 105
Calaanan Phase 2 (Fil-Chi) Lower	60 / 57
Calaanan Phase 2 (Lutheran Village)	66 / 66
Calaanan Phase 3 (Habitat)	698 / 696
Calaanan Phase 3 (LGU)	40 / 40
Calaanan Phase 3 (Fil-Chi)	300 / 285
Calaanan Phase 3 (Tagoloan)	40 / 40



#### 4. Disaster Recovery and Rehabilitation: Programs and Activities

Housing Assistance for "Sendong"

Location	Units/Awarded
Calaanan Phase 2 (Oro Habitat)	238 / 237
Calaanan Phase 2 (Shell)	271 / 271
Calaanan Phase 2 (Fil-Chi)	75 / 75
Calaanan Phase 3 (Escudero)	31 / 31
Calaanan Phase 3 (Mahogany Village)	160 / 159
Canitoan (SM BDO)	374 / 374
Indahag Phase 1	434 / 434
Indahag Phase 2	648 / 648



#### 4. Disaster Recovery and Rehabilitation: Programs and Activities

Housing Assistance for "Sendong"

Location		Units/Awarded
Camaman-an (Berjaya)		150 / 150
Camaman-an (Macapaya)		420 / 419
Pagatpat Phase 1		1,112 / 1,111
Pagatpat Phase 2		132 / 130
Iponan		28 / 28
Balubal (SMC)		500 / 481
Lumbia (Xavier Ecoville)		567 / 567
	TOTAL	6,515 / 6,470



#### 4. Disaster Recovery and Rehabilitation: Programs and Activities

"Rehabilitation...programmes...are hindered by recurrent disasters, a lack of financial resources, and the politicisation of the process."

- Tilly Alcayna, et. al. (Research Article "Resilience and Disaster Trends in the Philippines: Opportunities for National and Local Capacity Building", Sept. 2016)



#### CDRRMD and CDRRMC will continue

and produce competent and reliable response personnel and arm them with top-of-the-line rescue equipment in order to "serve the people the best way possible".

## Thank you!

