



- Indonesia is a country that has a high risk of disaster, this happens because Indonesia is located in a circle of fire (many volcanoes) and between three active plates namely Indo-Australia from the south, Eurasia from the north, and the Pacific from the east
- Disaster data is collected by the National Disaster Management Agency and BPS-Statistics Indonesia
- Disaster data in BPS-Statistics Indonesia is sourced from Village
 Potential Data which is based on village
- Village Potential Data also has information on disaster mitigation
- Unfortunately, not all of these data can be disaggregated by sex

Villages/Kelurahan Affected by Natural Disasters in the Last 3 Years: SDGs Goal 13 Target 3





Flood 19.675 Villages/Kelurahan



Landslide 10.246 Villages/Kelurahan



Earth-quake 10.115 Villages/Kelurahan



Drought 8.587 Villages/Kelurahan



Typhoon/Cyclone
7.251Villages/Kelurahan



Forest and Land Fires
4.394 Villages/Kelurahan



Flash Flood

1.869 Villages/Kelurahan



Tide
1.808 Villages/Kelurahan



Volcanic Eruption
623 Villages/Kelurahan

- There are 40,587 (48.4%) villages / kelurahan affected by the natural disaster in the 2015-2017
- The most natural disasters are floods, landslides and earthquakes

Number of Villages/Kelurahan by Effort in Anticipation/Mitigation of Natural Disaster



Natural Disaster Early Warning System **7.968 Villages/Kelurahan**



Safety Equipment **2.738 Villages/Kelurahan**



Tsunami Early Warning System 634 Villages/Kelurahan



Evacuation Route

5.048 Villages/Kelurahan



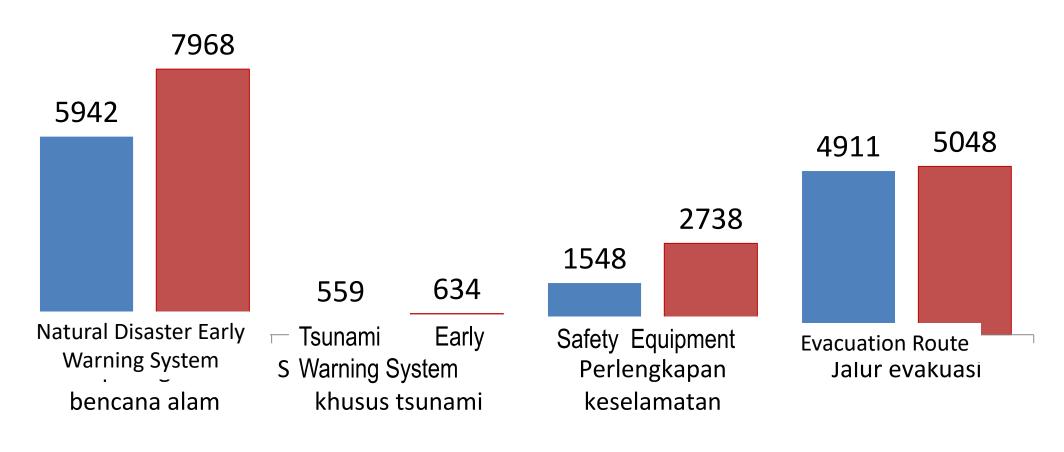
Engineering, maintenance or normalization 19.825 Villages/Kelurahan

- Only 26,546 Villages/kelurahan (31.6%) have anticipation/mitigation of natural disaster
- In fact, there are only 634 Villages/kelurahan in the tsunami early warning system (1.74% of the 36,426 Villages with tsunami potential)

The spreads of The Three Biggest Disasters



Efforts of Anticipation/Mitigation of Natural Disaster





The number of villages with increasing Mitigation to Natural Disaster

The Number of Village/Kelurahan by Type of Natural Disaster

Type of Natural Disaster	The Number of Vilage/Kelurahan	
Type of Hatarai Disaster	2011-2013	2015-2017
Landslide	7.861	10.246
Flood	16.830	19.675
Flash Flood	1.478	1.869
Earth-quake	3.827	10.115
Tsunami	16	12
Tide	1.560	1.806
Typhoon/Cyclone	7.143	7.251
Volcanic Eruption	433	623
Forest and Land Fires	1.267	4.394
Drought	4.913	8.587
Village/Kelurahan with Natural Disaster	32.586	40.587



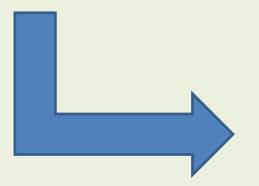
BACKGROUND (1)



- ✓ Data and information about area which affected by disaster is needed.
- ✓ During this time many stake holders are collecting data to provide their respective interests.
- ✓ Since the collected data are varies, they can be confusing to policy makers

BACKGROUND (2)

According to the "One Data" policy, it is necessary to establish an integrated data collection system for all ministries.



The generated data can be used to make policies at regional or national level in disaster area.



1

Several studies show that, when disaster happen, women will instinctively help their children faster than men. Because of that, women should be prioritized to be given a disaster management simulation training.

2

With women's preparedness for disasters, it is hoped that it can reduce disaster victims

3

the perpetrators of female violence, especially sexual violence, are more often not spouse, especially if the woman lives in refugee camps. And in places of refuge there are many incidents of very young women forced to get married because they are pregnant

4

Women are weak and need to be protected, especially in areas prone to disasters and conflicts, which often occure harassment and rape





No	Variables
1	Population Data:
	- Age,
	- Marital status,
	- Gender,
	- Relationship status with family,
	- Religion,
	- Type of work before a disaster occurs
	- Education (qualification that owned)
	- School Status (not attending school, currently attending school, not going to
	school anymore)
	Indicator SDGs 1.5.1: Number of deaths, missing persons and directly affected persons attributed

to disasters per 100,000 population.



No	Variables	
2	Functional disorders / difficulties in terms of:	
	- Vision,	
	- Hearing,	
	- Walk/climb the stairs,	
	- Use/move the hand/finger,	
	- Remembering/ concentrating,	
	- Having behavior/emotional disorders,	
	- Speak and/or understand/communicate,	
	- Take care of them self	

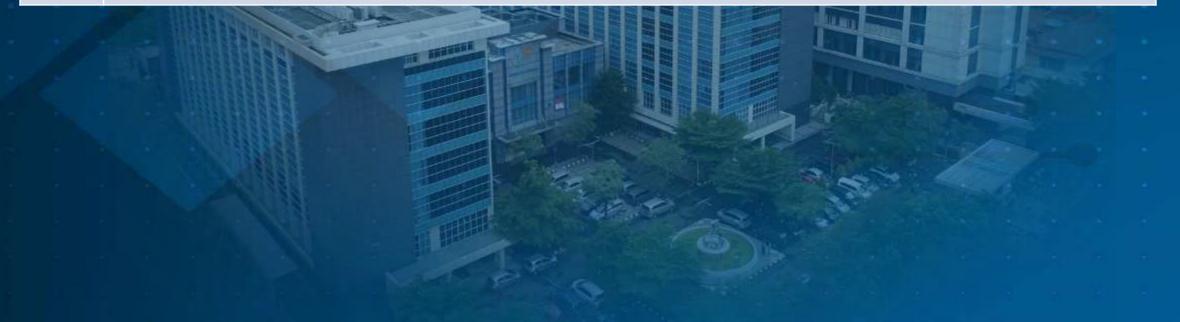


No	Variables
3	Fulfillment of food needs for the past week
	- Never eat healthy/nutritious food
	- Never eat when it's time to eat,
	- Never eat less because there is no food,





No	Variables
4	Fulfillment of Clothing Needs:
	- Underwear needs (including sanitary pads)
	- Everyday wear
	- Worship clothing
	- Formal wear





No	Variable
5	Placement of health needs
	- Experiencing health complaint
	- Whether has chronic disease
	- Improved to health services.





Variable Variable Variable	
The health of ever-married women aged 15-49 years:	
- Pregnancy	
- Pregnancy aged	
- Ever has inspections service to pregnancy	
- Childbirth	
- Ever has inspections service to childbirth	
- Contraception	
- Contraception used	
	 The health of ever-married women aged 15-49 years: Pregnancy Pregnancy aged Ever has inspections service to pregnancy Childbirth Ever has inspections service to childbirth Contraception



No	Variable
7	Information of housing this time:
	 Own ownership house building status
	- Proof of ownership / certificate of house building
	 Source of lighting used by households
	 Type of roof and damaged roof
	- Type of wall and damaged wall
	 Type of flooring and damaged floor
	 Condition of damaged structures building/ pole
	- The overall damaged of house building



No	Variable
8	Information of housing this time (Continued)
	- Type of toilet facility and damaged houses
	- Source of drinking water and water condition (cloudy, colored, tasted,
	foaming, smell etc
	- Type of fuel used





Variable
Information of housing before evacuating:
- Own ownership house building status
- Type of house building
- Housing condition (damaged condition, etc)





Develop questionnaires & build a data collection system.

→ Data collection process using a combined method, which uses population data from **Civil Registration** as a prelist in conducting post-disaster data collection



Why do we use **Civil Registration** data?

To find out:

- 1. Who is still in the area?
- 2. Who dies?
- 3. Who is missing, etc.

 $\left(2\right)$

Questionnaire + application PILOT test



Why it should be tested?

To improve:

- 1. Field organization,
- 2. Data collection method
- 3. List of questions, etc.

EXECUTION OF POST-DISASTER DATA COLLECTION PILOT

COVERAGE



The pilot carried out on 2 Villages/Kelurahan:

- 1. Kel. Petobo, Kec. Palu Selatan, Palu City, Sulawesi Tengah
- 2. Kel. Tondo, Kec. Mantikulore, Palu City, Sulawesi Tengah





Enumerator Recruitment:
Requirements for
enumerator that have an
Android (Screen minimal 5",
1 GB RAM, etc.)

Data collection using Handphone/Android:

- Interviewing the head of family according to questions in the application.
- Upload data collection results

Enumerators training:

- 1. Installing Application
- 2. Concept and definition

Enumerators visiting every house/huntara

Data Server



PILOT'S DOCUMENTATION(1)



HUNTARA



PILOT'S DOCUMENTATION (2)



ENUMERATION



PILOT'S DOCUMENTATION (3)



ENUMERATION

