THE POWER OF LOCATION DATA IN SEARCH AND RESCUE MISSION

(GEOGRAPHYCAL INFORMATION SYSTEM (GIS) FOR DISASTER MANAGEMENT DURING DISASTER)

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DEFINITION

- GIS –A **geographic information system** or (*GIS*) is a system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data. Theacronym GIS is sometimes used for geographic information science (GIScience) to refer to the academic discipline that studies geographic information systems and is a large domain within the broader academic discipline of geoinformatics. What goes beyond a GIS is a spatial data infrastructure, a concept that has no such restrictive boundaries.
- Disaster -The incidence of "disaster" is defined as any incident, whether natural or due to human factors, which occur suddenly and cause injury or death and can damage to property or the environment and cause interference with the activities of the daily life.

INTRODUCTION

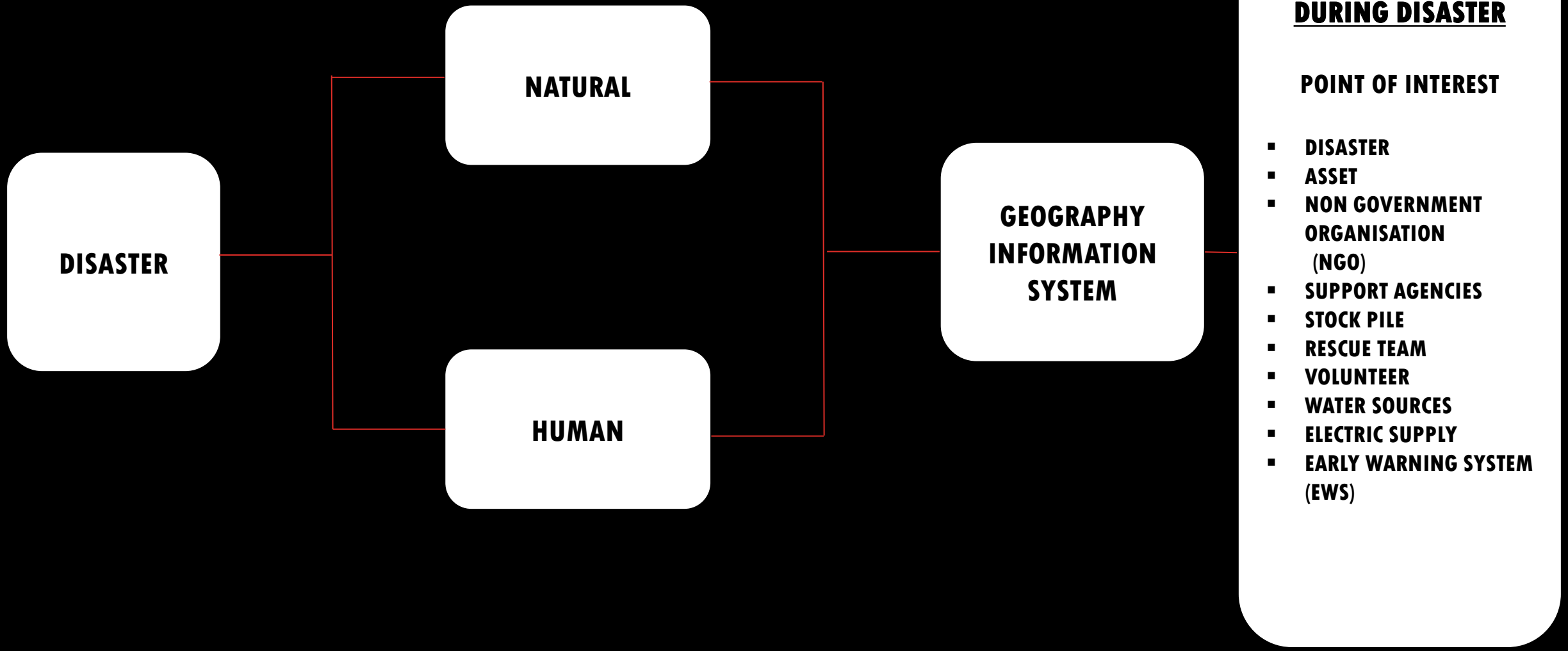
- Since its establishment, the Malaysia Civil Defence Force (MCDF) has been actively training the civilian population on how to be prepared in facing any emergency situations, disasters or even war.
- Until the end of December 2014, more than 2 millions population had been trained by MCDD in a more focus and specifically designed training program name as 'The Civilian Disaster Preparedness Training Program' (CDPTP), which was started in 1995.

SOURCE OF LAWS

- Jadual Kesembilan Perlembagaan Persekutuan
- Civil Defence Act 1951 (Revised 1979) (Act 221)
- National Service Act 1952 (Revised 1990) (Act 425)
- Declaration of International Civil Defence Organisation (ICDO)

THE ROLE OF THE MALAYSIA CIVIL DEFENCE FORCES (MCDF)

- The objective of this training program is to increase public awareness and preparedness for any type of disaster through an integrated educational program to reduce the lost of life and property of the civilian population during disaster.
- To ensure that at least 10% of Malaysians are exposed to civil defense knowledge.
- cumulative statistics until 2014 recorded a total of 2,012,635 people have been exposed to civil defense knowledge to build public awareness of early preparation for emergencies or disasters.


DISASTER
NATURAL
HUMAN
GEOGRAPHY INFORMATION SYSTEM
DURING DISASTER
POINT OF INTEREST
DISASTER
ASSET
NON GOVERNMENT ORGANISATION (NGO)
SUPPORT AGENCIES
STOCK PILE
RESCUE TEAM
VOLUNTEER
WATER SOURCES
ELECTRIC SUPPLY
EARLY WARNING SYSTEM (EWS)

POINT OF INTEREST (ASSET)

4X4 TRUCKS
TOTAL: 156

AMBULANCES
TOTAL : 214

BUSES
TOTAL : 10

BOATS AND ENGINE
TOTAL : 388

3 TON TRUCKS
TOTAL : 57

5 TON TRUCKS
TOTAL : 47

RESCUE TRUCKS
TOTAL : 20

MOTORCYCLES TOTAL : 40

MULTIPURPOSE VAN
TOTAL : 30

❑**Geographic Information Systems (GIS) will be used to analyse the disaster.**

❑ **Data provided will be able to identify :-**

i. Disaster areas
ii. The position assets of management disaster
iii. NGO
iv. Stock pile
v. Rescue team
vi. Water sources
vii. Electric supply

❑**Geographic Information Systems (GIS) will be used as a source of references for disaster. With a variety of information obtained, disaster manager will use the information to make decisions.**

THANK YOU

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