





GEOGRAPHIC INFORMATION SYSTEM IN THE ARMED FORCES OF THE PHILIPPINES

An Instrument for Collaborated Planning, Execution and Response





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SCOPE OF PRESENTATION

- Background
- AFP Operations and GIS
 - AFP Command Center
 - AFP Command Operations and Management System (AFPCOMS) & GIS
 - GIS Operational
 - GIS Tactical
 - GIS Inter-agency
- Way Ahead

Background

THE PHILIPPINES

■ 300,000 SQ KM OF LAND

■ 7,100 ISLANDS

22,529 MILES OF COASTLINE







- 103 MILLION POPULATION
- 180 INDIGENOUS GROUPS
- 171 LANGUAGES



Background

AFP Mandate

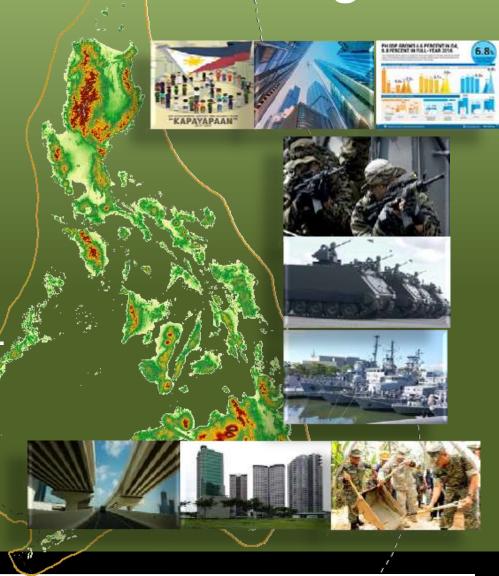
"Protect the people and the state, and secure the integrity of the national territory."

Article II, Sec 3
The 1987 Philippine Constitution

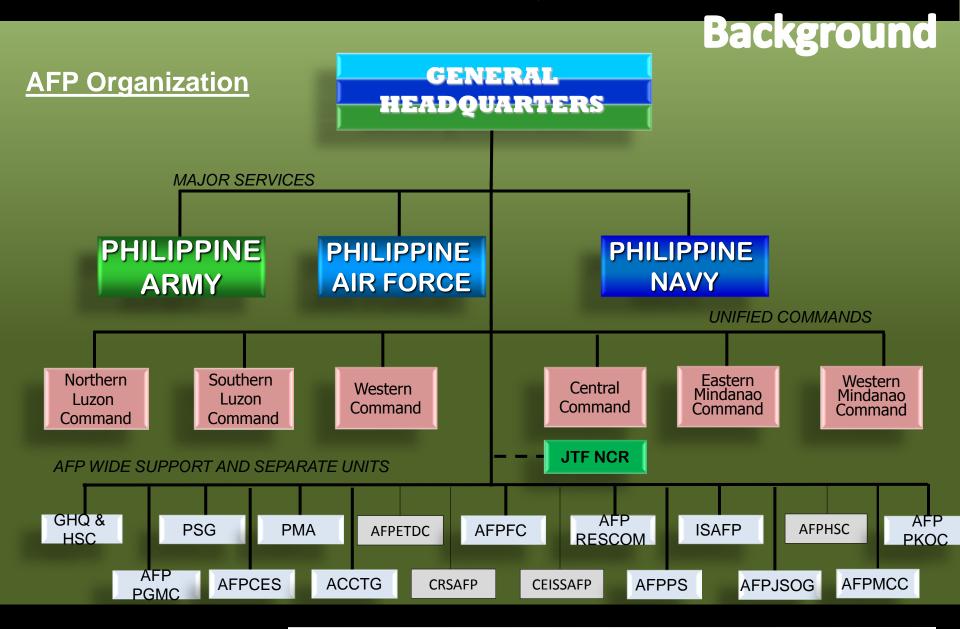


AFP Functions

- Defend the territory of the Republic of the Philippines, uphold the sovereignty, and support the constitution.
- Promote and advance the national aims, goals, interest, & policies.
- Plan, organized, maintain, develop, and deploy its regular & citizen reserve forces for National Security.
- Assist and support the national government in its task of nationbuilding; and perform other functions as may be provided by law or assigned by higher authorities.

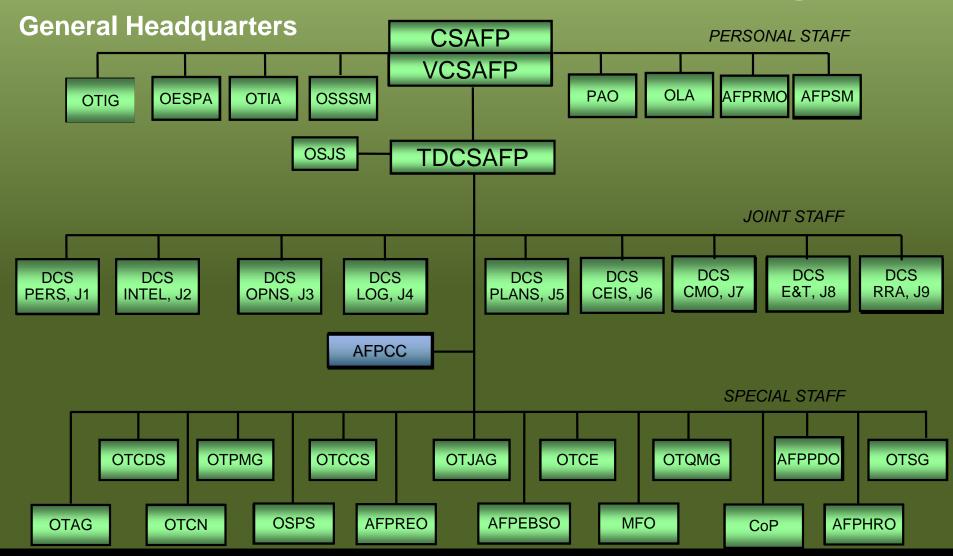


Background





Background





The AFP Command Center



...COMMAND AND CONTROL FACILITY

THAT FACILITATES DIRECTION,
COORDINATION, SUPERVISION,
CONTROL, MONITORING OF CURRENT
ADMINISTRATIVE, COMBAT, & CIVIL
ASSISTANCE OPERATIONS.

...PROVIDES AFP LEADERSHIP WITH

<u>SITUATIONAL AWARENESS</u> AND

COMMON OPERATIONAL PICTURE.



AFP COMMAND OPERATIONS MANAGEMENT SYSTEM



A combination of integrated computer hardware, data communication devices & application software...



Designed to automate reporting and data analysis...



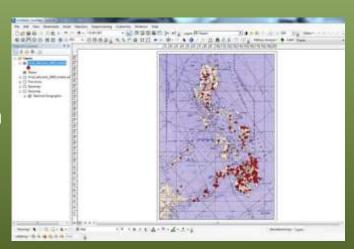
Developed to assist commanders in decision making...



5 Components - Event Management, Situation Monitoring, Terrain Visualization, GIS & VTC



In 2006, AFP implemented an enterprise-wide GIS platform





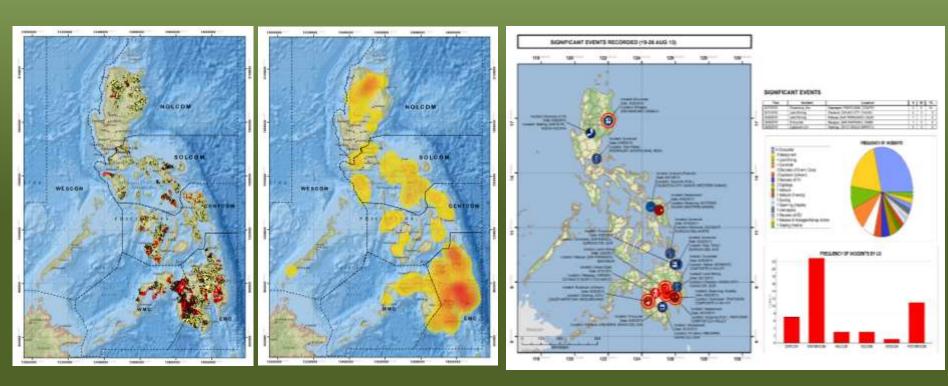
AFPCOMS Situation Awareness Portal



AFPCC Events Reporting System

- ✓ automated reporting of events
- ✓ integrated with GIS

GIS Operational



ISO Data Analysis



GIS Operational





Zamboanga City Siege





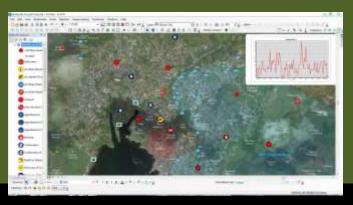
Operations against ASG



Operations against Maute





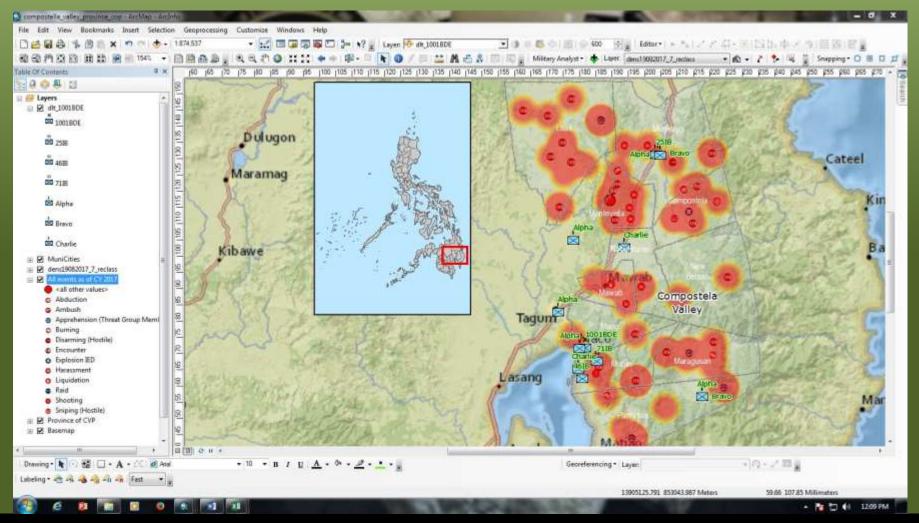








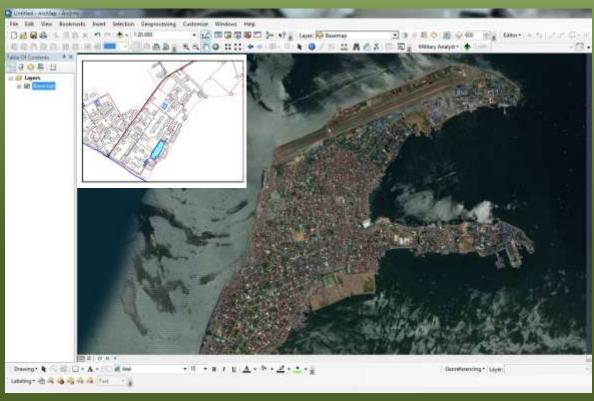
GIS Tactical



GIS Admin and Logistics

Site Profiling of AFP Military Reservation

- ✓ off-site and on-site infrastructure and community limits
- ✓ outline of physical and social environment
- ✓ site analysis for formulation of Master Development Plan



Military Reservation Site Profiling

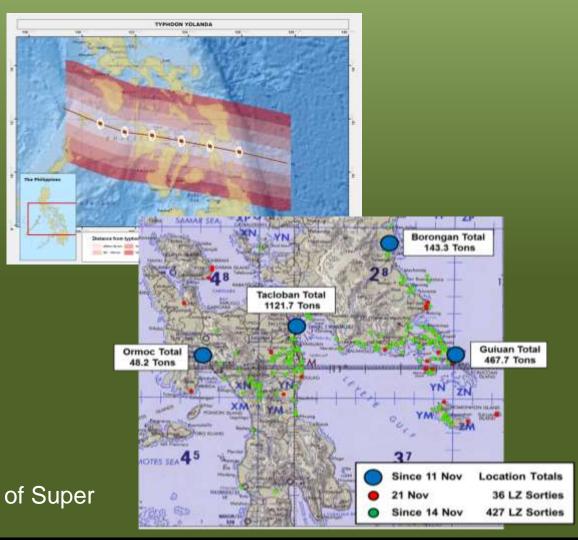


GIS Inter-agency





HADR Operations aftermath of Super Typhoon Haiyan







GIS Inter-agency







Procession of the Black Nazarene





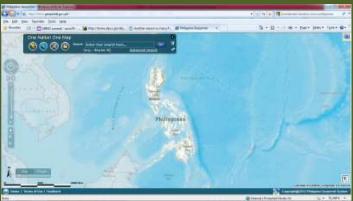
APEC Summit 2015



GIS Inter-agency



Department of Environment and Natural Resources (DENR)



National Mapping and Resource Information Agency (NAMRIA)



Department of Science and Technology (DOST)

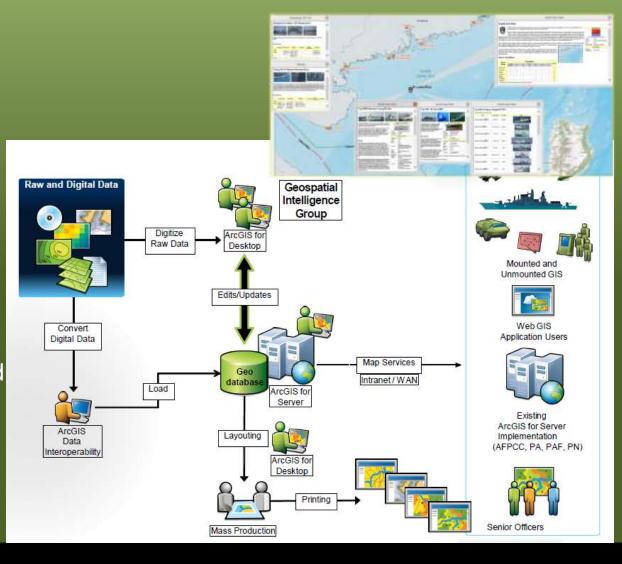


Department of National Defense (DND)



Way Ahead

- Implementation of a centralized GIS Database System
- Implementation of GEOINT Solutions for near real-time geospatial information
- Acquisition of high resolution imagery equipment
- Acquisition of platforms and sensors to enhance realtime situational awareness





CONCLUSION

Integrated GIS data, a primary tool for decision making on strategic development planning, implementation of national development plan, delivery of government services, providing appropriate response in all types of disasters and emergencies and assurance of public safety and security.

THANK YOU

