

NAGA CITY



The Naga City. Case

**Resilient and
Future-Ready
Cities:**

Navigating
Natural Disasters
and Building
Stronger
Communities

African Swine Fever
February

Typhoon Quinta
October

Typhoon Ulysses
December

2019

2020

December
Typhoon Tisoy

March
COVID-19 Pandemic

November
Typhoon Rolly

A challenging first 18 months that tested the capability and resilience of the new administration

OUR BEST PRACTICES

Incident
Management
Team

Legislative
Support

Community
Engagement &
Volunteerism



Incident Management Teams

- Typhoon IMTs
- ASF IMT
- COVID-19 IMT



Legislative Support

Passage of legislations for the (1) stringent implementation of health protocols, and (2) economic stimulus programs



Community Engagement and Volunteerism

- Debris Clearing Efforts
- Relief Goods Distribution
- Businesses offering free accommodations and charging stations
- Mobilization of barangay electricians for rapid electrification
- Donations
- Humanitarian Aid





Upgrading or overhauling the system is not enough. There is a need for investing in a new, modern, and integrated system that will facilitate current and long-term response for recurring problems on traffic management, as well as safety both on occasions of big events and also on a daily basis.

Mayor Nelson Legacion on the establishment of the Naga City Center for Safety and Resilience (CESAR).





**THE NAGA CITY CENTER FOR
SAFETY AND RESILIENCY (CESAR).**

The City's Eyes and Ears in Public Safety.



Our Innovations

- Centralization of operations
- Systems Automation
- Data-driven management and monitoring





Our Philosophy

- Metrics & Measurements
- Tools and Technology
- Organization and Governance
- Process and procedures
- Skills and Resources
- Physical Environment
- Knowledge Management

A unified command center integrating the functions of offices and agencies involved in public safety, peace and order, and disaster management, for a coordinated response and effective inter-operability among the responders.





CESAR will be housing within its walls the Public Safety Office, the Central Communications Office, and the City Disaster Risk Reduction and Management Office, and sharing in its complex grounds, the PNP and BFP Headquarters.

—
Command
Center



Crisis Room “Mood Board”

Sensitive and Critical
Decisions

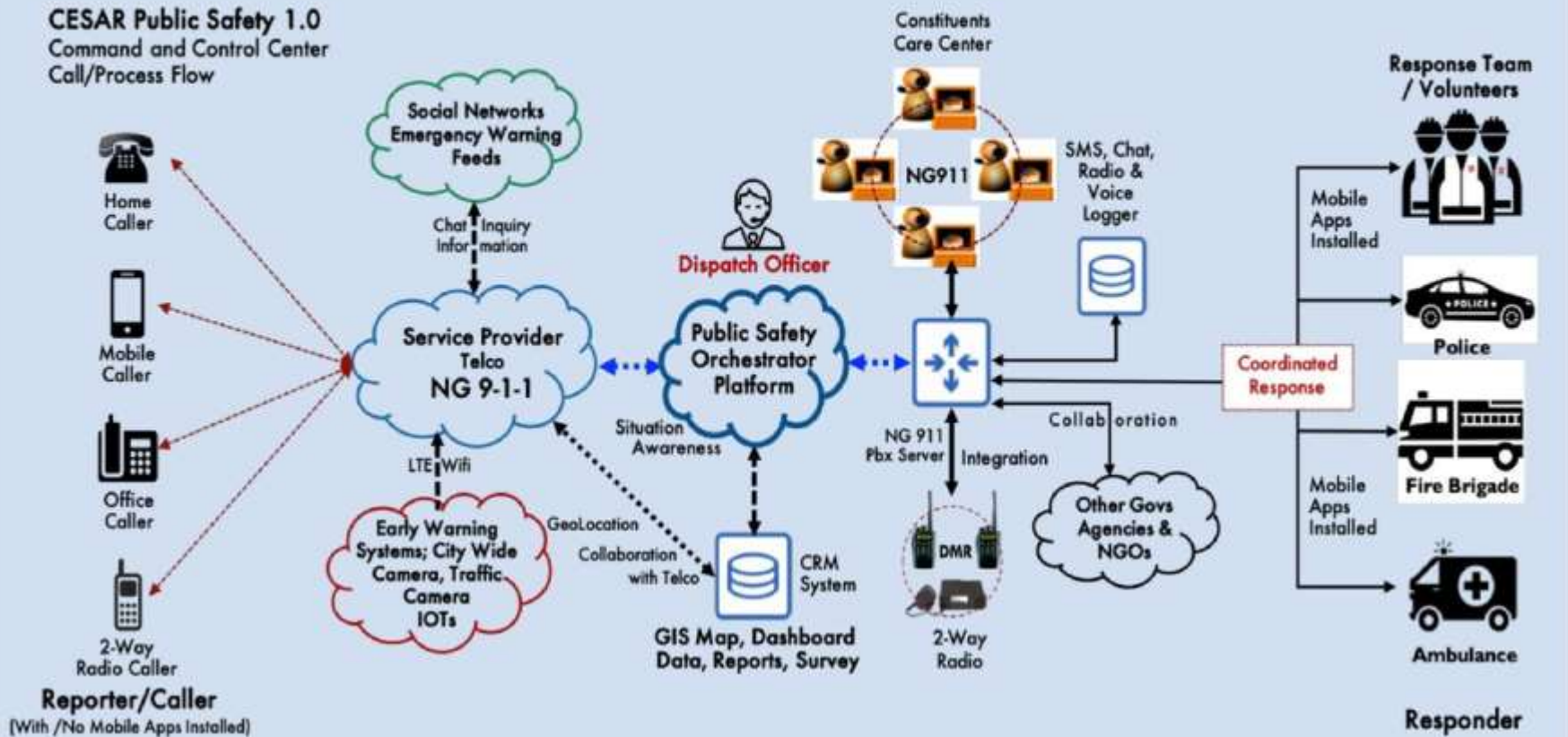


Training Room



CESAR TECHNOLOGY ARCHITECTURE

CESAR Public Safety 1.0
Command and Control Center
Call/Process Flow



CESAR 1.0 In Action

Critical Events

- Natural Disasters
- Manmade Disasters
- Civil Unrest
- Public Crisis
- Terrorist Attacks
- Child Abduction
- Missing Person
- Evacuation Orders
- National Orders
- ICTS Outage
- Cyber Issues
- Any Critical Event

Situational Awareness



All Channels, Intelligent
Communication Platform
to Help the City
Government Protecting
Constituents and
Properties When It
Matters

Emergency Communication Channel

Mobile Device



Any Cell Broadcast Channel



Any Location Based



App Notification, SMS, Voice,
Radio, Broadcast, Sirens, eMail,
Social Network, Digital
Signage, Others



Residents, Citizens,
Tourists, Visitors,
First Responders

CESAR 8 Pillars/ Technology Foundations

Situational Awareness Platform (SAP)



NG 911 Contact Center System



Security Surveillance + AI System



Smart Traffic System + AI System



Early Warning System/IoT System



Digital Mobile Radio/2-Way System



Social Network System



Geographic Information System



Cyber Security System



3 Technology Deployment Methodology.

Infrastructure Systems

IoT sensors/ EWS
Structured Cabling Systems
Wired and Wireless Network
Security Surveillance
Smart Traffic Systems
Next Generation Firewall System
Endpoint Detection and Response System

ComCen Systems

GIS, IoT, and DMR Dashboard System
Audio and Video Systems
SIP Appliance Telephony System
Digital Mobile Radio System
Voice, Chat, and Radio, and Screen Logger
AI System/Forensic Investigation

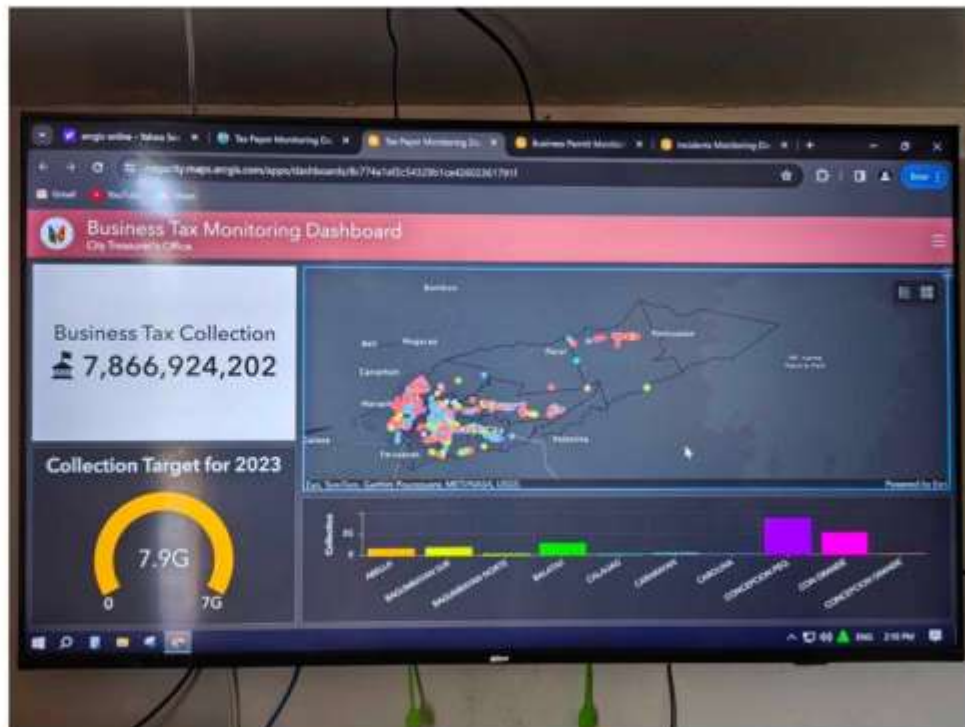
Data Center

Social Network Servers and Management System
VM Servers
Physical Storage and Backup
Cloud Storage
Integrated Communication Cabinets
PACU, fire alarm, sprinkler system

Incident Monitoring Dashboard



Business Tax Monitoring Dashboard





Naga City Vision

“A healthy city that is that peaceful, vibrant and productive, safe and smart, green and resilient – driven by excellence and solidarity, enabled by technology, powered by a strong and diversified urban and agricultural economy, and nurture by culture and religious diversity...”