**BCDA Economic Zones & Key Developments**

**1. Clark Freeport Zone (CFZ)**

* Managed by Clark Development Corporation (CDC)
* Hosts locators in manufacturing, BPO, logistics, and aviation
* Dual fiber optic backbone, solar power plant, and data centers

**2. New Clark City (NCC)**

* BCDA’s flagship smart city in Tarlac
* Designed for disaster resilience, sustainability, and digital governance
* Home to government back-up facilities, sports complex, and green infrastructure

**3. Bonifacio Global City (BGC)**

* Former Fort Bonifacio military base
* Now a premier financial and lifestyle district in Taguig
* Mixed-use development with high-rise offices, residential towers, and retail hubs

**4. McKinley Hill**

* Mediterranean-inspired township near BGC
* Hosts embassies, international schools, and BPO centers

**5. Newport City**

* 25-hectare leisure and business district near NAIA Terminal 3
* Features hotels, casinos, and upscale residences

**6. Subic-Clark-Tarlac Expressway (SCTEX) Corridor**

* Strategic transport corridor linking Subic Bay Freeport, Clark, and Tarlac
* Supports logistics, tourism, and industrial growth

**BCDA GIS Mapping System: Modules & Features**

**1. Land Use Planning Module**

**Purpose:** Visualize and manage zoning, land allocation, and development plans.

**Key Features:**

* Zoning overlays (residential, commercial, industrial, institutional)
* Land parcel registry with ownership, lease status, and locator profiles
* Environmental compliance layers (protected areas, flood zones, fault lines)
* Integration with urban planning tools and NCC masterplan
* Scenario modeling for future developments and reclassification

**2. Locator Tracking Module**

**Purpose:** Monitor and manage economic zone locators, their operations, and compliance.

**Key Features:**

* Geotagged locator profiles with business type, size, and sector
* Permit and license status dashboard
* Utility consumption mapping (power, water, telecom)
* CRM integration for locator engagement and feedback
* Heatmaps for investment density and sector clustering

**3. Infrastructure Monitoring Module**

**Purpose:** Track physical assets, utilities, and ongoing construction projects.

**Key Features:**

* Real-time mapping of roads, bridges, drainage, and utilities
* Maintenance scheduling and incident reporting
* Integration with IoT sensors for traffic, water flow, and energy use
* Construction progress visualization and contractor mapping
* Asset lifecycle tracking and predictive maintenance alerts

**4. Disaster Risk & Resilience Module**

**Purpose:** Enhance preparedness and response across BCDA zones.

**Key Features:**

* Hazard overlays (earthquake zones, flood plains, typhoon paths)
* Evacuation route mapping and shelter locations
* Integration with early warning systems and weather feeds
* Risk scoring per locator and infrastructure asset
* Coordination dashboard for LGUs and national agencies

**5. Environmental Monitoring Module**

**Purpose:** Ensure sustainability and regulatory compliance.

**Key Features:**

* Air and water quality mapping (via sensors or manual input)
* Waste management zones and tracking
* Green space and biodiversity overlays
* Carbon footprint estimation per zone or locator
* Compliance alerts for DENR and LGU regulations

**6. Administrative & Governance Layer**

**Purpose:** Support planning, reporting, and inter-agency coordination.

**Key Features:**

* Role-based access for BCDA, LGUs, locators, and national agencies
* Document tagging and linking to geospatial assets (e.g., MOAs, permits)
* Integration with HRIS, finance, and asset systems
* Customizable dashboards for executives, planners, and field teams
* Exportable reports for board, COA, and JV partners

**7. Public Engagement & Transparency Portal**

**Purpose:** Foster trust and citizen participation.

**Key Features:**

* Public-facing map with locator directory and project updates
* Feedback and reporting interface for citizens and stakeholders
* Emergency alerts and advisories
* Mobile-friendly access for field inspections and locator visits

**🔗 Integration Potential**

This GIS system can serve as the **spatial backbone** of your proposed **Command and Control Center (C3)**, linking seamlessly with:

* **HRIS** for staff deployment and field operations
* **Finance systems** for budget mapping and asset valuation
* **Permitting systems** for locator compliance visualization
* **Asset management** for geotagged equipment and infrastructure