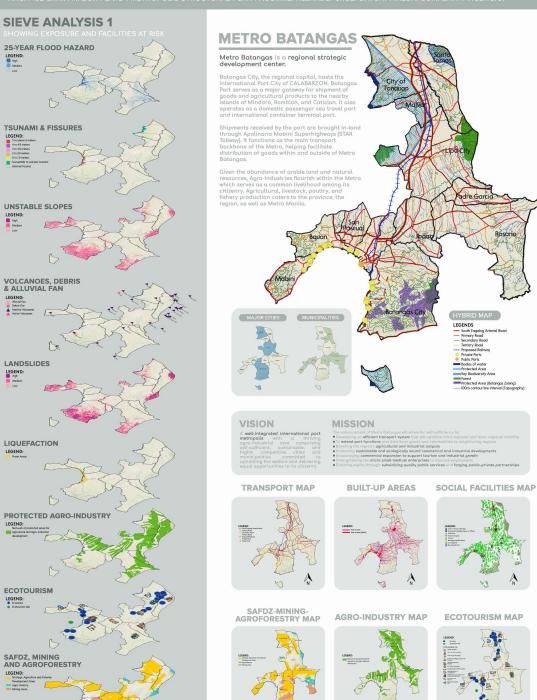
# METRO BATANGAS PLAN A PROPOSAL FOR METRO BATANGAS AS AN INTER-REGIONAL PORT METROPOLIS AND EMERGING AGRO-INDUSTRIAL CENTER

ARCH 162 BARIA MAJOR PLATE 1 METROPOLIS STRUCTURAL PLAN I AGUIRRE. ALLARDE. CRUZ. DATOR. PINEDA. SUMALNAP. VICENCIO.



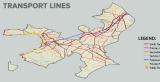
# **SWOT ANALYSIS**

# WEAKNESSES

ustrics make it **viable for expansion** in terms o

#### **THREATS**

# **SIEVE ANALYSIS 2**







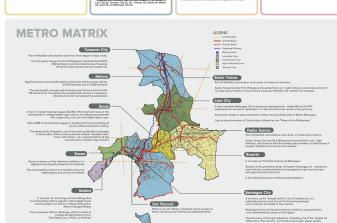


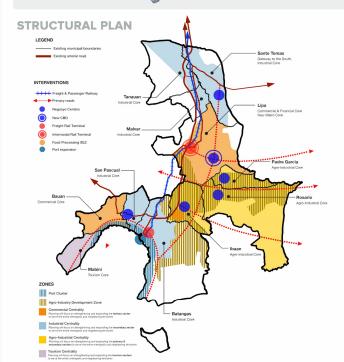












#### WATERFRONT TRANSIT-ORIENTED DEVELOPMENT BATANGAS CITY PORT

#### **URBAN DESIGN GUIDELINES**



#### Establish a gateway between Metro Batangas and neighboring islands

- A train station (preferably a subway) will be built within walking distance
- will be built within wolking distance from the port

  An intermodal transport station will be built close to the train and port

  The three transport stations will be connected by a continuous pedestrian poth
  A demond-driven smart stoplight system will be established on the key crosswalks

#### Protect and support fishing

- Protect and support fishing communities

  Build docks on the boywalk for municipal fishing boots Relocate informal settler families to in-situ low-cost housing developments. Professional Section (Protected Wetlands, but building new structures on site is prohibited.

#### Integrate the bodies of water to the urban fabric

Riverside easements will be strictly enforced, but Landscaping will be done to allow pedestrian mobility

# along the creeks Baywalk and public beach will be

# ACCESS





The intersection between the train station and

BAYWALK & FISHING DOCK The baywalk and fishing dock is located in front of the commercial zone along the bay. It features various outdoor recreational spaces as well as wooden docks jutting out for loce fishermen to use



**DESIGN PROCESS** 

#### 02 CONNECTING TO THE SEA

An institutional cluster and a transport hub were first established. Their then be explored. The port will be expanded and boywalk will be built long the entire coastline next to it. Reclamation may be necessary. The establishments to capitate on the boy view and new public spaces. The pre-existing ISFs will be relacated to a low-cost housing zone, close to their places of work as municipal fishers and as workers in the Botangos City Pfer. and where people will converge the most, the new urban axes were developed to bring people to these clusters.

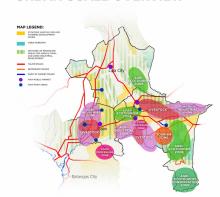


All other zoning decisions were influenced by these 3 principal policies.

#### **AGRI-ECOTOURISM PROJECT**

MUNICIPALITIES OF IBAAN, ROSARIO & PADRE GARCIA

#### **URBAN SCALE OVERVIEW**



ne agricultural centers of Bason, Resorin, and Fedra Garcis are largely within:
2 Brospey, Septicultural or of Titleries Severageners Zones (19472)
2 Brospey, Septiculture and Titleries Severageners Zones (19472)
2 eric activation is the sixteen seed of this the test excessfully does in several areas in Batongas. These date double at learning alters
control as parties seed of this the test excessfully does in several areas in Batongas. These date double at learning alters
control as prime location for Union Bengin Proposal.

Compared to the Title Control of the processor of a draw assumes the role as the York Basset of Botongas' or "Truits and Vegetable Beal." ter of Eastern Batangas for Agri-industry, Sustainable Forest Management, Agri-ecotourism, and Agricultural

> Premiere Center of Existen Bollongo for Agri Haroury, post-production
> 28.3% of the book lend or 10,72975 hectores for agriculture of the book or 10,000 for 10,0

# RM-TO-MARKET ROADS AND

Dominated by agricultural land zones (form areas, ecological sites, and the like), the first approach action almonity acide project for floom, Reservic and Podre Gorcia is the construction of form-to-market roads. The very purpose of this plan is to build an efficient connection between the agricultural forms and public markets. Through this project, several benefits are expected to be attained by the community such as

Increase in local trade and graduatility

Transportation cost reduction

All military both reveal to assess the second of the se

Marrower based on research and observation, there is a need in reading an economic cluster for food processing zones, agricultural forms, and public markets within these areas. Thus, for the second urban planning scale project, implementation of zoning and generating additional food processing project, implementation of zoning and generating additional food processing plan, the lock of interconnectivity, between food arrocessing establishments and of other agriculturation derors all the miligated, consequently olding in the

#### RO-ECO TOURISM SITES

Agri-ecotourism involves a participatory approach to tourism that is specifically oriented towards sustainable forming, environmental conservation, and local culture and products.

Community

© Serves as public recreation and green space

© Inverse social cohesion and local cultural identity by preserving traditional kn Improve social cohesion and local cultural identity by preserving traditional knowledge practices, sitils, and crafts
 Provides apportunities for citizens through Community Livelihood and Skills Training
 Programs, contributing to poverty alleviation
 Supplements formers' income during off sections, compensates law return of agra

lasterplans Systemic Agro-Tourism by Corlos Bortesoghi Koc along Chili River Borders Cuchi Organic Form by firm Integrated Field (F) in Cuchi, Vietnam

#### **MOBILITY HIERARCHY**



PRIMARY ROAD
The Primary Road is a
4-6 lane road system
which consists of at
least one (1) 3.5m wide
bus lane and one (1)
3m wide cor lane, it is
also used in
conjunction with wide
pedestrian access. SECONDARY ROAD The Secondary Road
The Secondary Road
is a 4 lane road
system which consists
of at least one (1) 3.5m
wide bus lane and one
(1) 3m wide cor lane. It
is also used in
conjunction with wide

PRIMARY ROAD

TERTIARY ROAD The Tertiary Road is a 2 lane road system which consists of a 3m wide car lane. It may also used in conjunction with wide pedestrian access.

PEDESTRIAN ACCESS





#### ACCESS

station and intermodal terminat, the two structures are separated by a tertiary road, but are connected wis woulkney on the upper levels. Pedestrian overposses directly connect users to the other side of the primary road. There are bus staps located in between lones.

#### SITE SELECTION **CRITERIA**

SIZE: approximately 500 hectores at the most

To site in areas:
ACCESSIBILITY
- With access to at least 2 to 3 major and/or secondary roads to

-With access to a least 2 it of a major and/or secondary roads it aliane and secondary roads it aliane and secondary with immediate or early create to a major road of with immediate or early creates to a major road of with access to related food processing of cellities, within a 50-minute drive at the most, to streamline product exports -With access to relate food processing facilities, within a 50-minute drive at the most, to streamline product exports -With access to light to medium commercial facilities, within a 50-minute drive at the most, to complement to untrism features with exposure to considerable traffic for increased widelity with exposure to considerable traffic for increased widelity.

FARM LAND AVAILABILITY
With concentrations of existing form lands to utilize as part of the

With concentrations of existing farm lands to utilize as part of the opt-recoturism sit in between, should be easily bridged through took to leaking and/or eminent domain took to leaking and/or eminent domain and excounting, to provide diverse agri-exotourism activities and to facilitate a clear—loop cycle. With notable and/or specialized agricultural industries to integrate and support.

LOCAL AND CULTURAL RESOURCES
- With known and well-received local products to be showcased and

it from increased traffic local expertise in a skill, craft, and/or product to showcase

NATURAL RESOURCES

NATURAL RESOURCES

With notable natural site features to facilitate ecotourism activities, either any or a combination of the following:

Water bodies in the form of ponds, takes, springs, rivers, on its tributories

Topoprophical features in the form of hills, mountain bases, edge of valleys, etc.

Forests and supplicated

# **URBAN DESIGN**

**GUIDELINES** 

- Agriculture

  Dedicate farmlands to a variety of crops, with particular focus on major products and primary exports of the area
  Employ a systematic approach in plotting formands, with specific
  Employs a systematic approach in plotting formands.

  Provide efficient irripation systems with a compact layout
  Employ sustainable irrigation techniques, e.g. drip irrigation
  Utilize archerds and tree nurseries in defining atte boundaries
  From the collection of formands, provide demo forms for facilitating workshops and training programs.

  List these close to the agricultural or other related nodes of the table and the system of the sys

#### Livestock

- Livestuck

  For the property of the property of
- Recycle blowaste through black solution in the property for poultry
   Provide livestock disinfection and checkpoint area/s with convenient access to major roads

#### Environment

- Preserve defining natural features of the site by orienting ecosem members of the site of
- views > Offer paintball, mountain biking, and other similar activities
- with suitable terrain in sking, and other similar delivities with suitable terrain in distinct and found through native gardens and park areas

  Showcase natural flora and found through nature treks, bird watching and similar activities

- Intersperse Livelihood and Training Centers in the development to serve as Agri-ecotourism nodes
   Orient each Livelihood and Training Center to a specialized course
- Orient each Livermood one naming terms on a purpose of citivity or citivity or citivity compositing, Biowaste to Feed Production, Organic Livestock Raising, Organic Forming, Artison Crafts, etc.

  Provide Livelihood and Trianing Centers with immediate or easy access to related forminand spaces through defined interactive zones. Form Animal Interactive Area, Organic Forming Learning Zone, Demo Form

#### **OVERVIEW**

#### Commerce and Industry

City center is an important area in any city for its dominating role in creating the city's architectural characteristics and supporting its urban hearts of the city, where needs and services are provided through an environment that is conductive to the successful operation of industries.

#### Strategic Location

Strategic Location
Orallow When I should be supported the support of th

#### Goals and Objectives

- INDUSTRIAL INFRASTRUCTURE
   Development of integrated transportation infrostructure (on-site and off-site)
   Development of power-fenergy infrastructure
   Development of logistics hub
   Development of communication infrastructure
   Development of communication infrastructure
   Development of integrated utilities infrastructure
- EnvirionMental, InFRASTRUCTION, transport and treatment
   Development of solid waste collection, transport and treatment
   Development of an industriol waste collection, sorting, transport, and management system
   Development of or industriol waste collection, sorting, transport, and management system
   Development of evaluation treatment and recycling
   Development of cogeneration plants
   Provision of pollutant and activity testing facilities and
   Provision of pollutant and activity testing facilities and

# SOCIAL INFRASTRUCTURE Establishing an industrial zone with compatible social

- Establishing an industrial zone with compatible social infrastructure. Infrastructure interest in a social development Development of knowledge, training and research support infrastructure Provision of emergency services

#### **URBAN DESIGN GUIDELINES**

Support the local industrial and commercial sector of Batangas

© Establish a city center within the industrial park for local sellers

© Provide an outdoor market on parks to increase the social activity of

Provide a diverse lot sizes and uses to accommodate the needs

Provide a diverse lot sizes and uses to accommodate the needs

- Develop a sustainable and an environmentally friendly industrial park.

  Provide public parks and open anoces.

  Provide public parks and open anoces of the providency of the p

#### Community and Culture

- Provide Farmer's markets to promote locally made goods and

#### Tourism

- Employ "Glamping" as an approach to lodging, minimizing impact on site while maximizing agri-ecotourism experience.
   Locate these away from major roads and within eco-park zones

  Utilize ecopark arounds as a buffer between alamping sites
- and incompatible land uses

  Locate Former's Markets and Food Districts along major roads to mark outer public zone and benefit from tourist
- traffic

  Provide varied recreational spaces to accommodate families, teams, and people of all ages

  If any, incorporate heritage sites or elements of cultural significance within the tourism zone

#### **Buildings and Facilities**

- Unit development to low-rise buildings, with mostly one to two storrey buildings
   Moximize use of open-oir structures for public areas such as workshop and seminor halls, events' places, restourants, and the like
   Utilize light frome construction techniques (tensile structures, boundour, or wooden porillons, etc.) for structures whenever
- bumboo or wooden parillions, etc.) for structures wherever applicable.

  Limit the number and maximum floor area of buildings at the limit the number and maximum floor area of buildings at the preserving views of the form from outside the site.

  Locate facilities dealing with hazardous aubstances, and solve machinery, and foul-smelling byproducts away from public and communal spaces.

#### Circulation

- · Connect Agri-ecotourism nodes through pedestrianized paths
- Connect Agri-ecotourism nodes through pedestrionized paths and owness.

  In our owness whenever possible to preserve from land
  Use pedestrian paths and ovenues to provide strong directionally and easy weyfinding within the large alter and the large and t

# AGRI-ECOTOURISM PROJECT

### **INDUSTRIAL PARK** SAN PASCUAL, BATANGAS

#### **ROAD NETWORK & ZONING**





#### Zonina

PERSPECTIVES

A Industrial panes for torgeted sectors - include industrial poles, jectory, shells, and multi-storey industrial units for non-polluting or medium-polluting industries - also include logistics zones covering loading and unloading yards, parking lots, packaging facilities, cargo-handling centers, owe material consistency of participance deports, and goods storage deports arong sections.

C. Utilities zones
- cover electrical substations, waste collection













# Green zones cover parks and buffer zones along the park's boundaries, lawns, parks and water features, interpol walkneys between zone etc.





AFRIAL PERSPECTIVE