

TANA

lupà | land

An Agro-Ecotourism Farm and Park in Barangay San Joaquin, Basco, Batanes

BATANES PROTECTED LANDSCAPE AND SEASCAPE

10 islands: 3 inhabited

Protected Area & Ancestral Domain

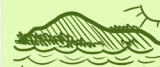
population of **17,000**
land area of **23,000 ha**
sea area of **450,000 ha**
agricultural land of **5,500 ha**
340 plant species
7 endemic to Batanes

Problem Statement

PESTLE and SWOT analysis of the Batanes Protected Landscape and Seascape revealed three key concerns.

Batanes economic growth driven by **tourism and importation** has raised concerns on

Environment



overall impact on scenery and ecology due to tourism, construction, and waste management

Culture



Migration and tourist arrivals vastly increase island population and influence lifestyle

Resources



declining agriculture sector with increased reliance on imports, pressure on land and water resources

Theoretical Framework

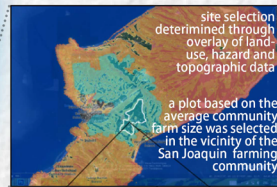
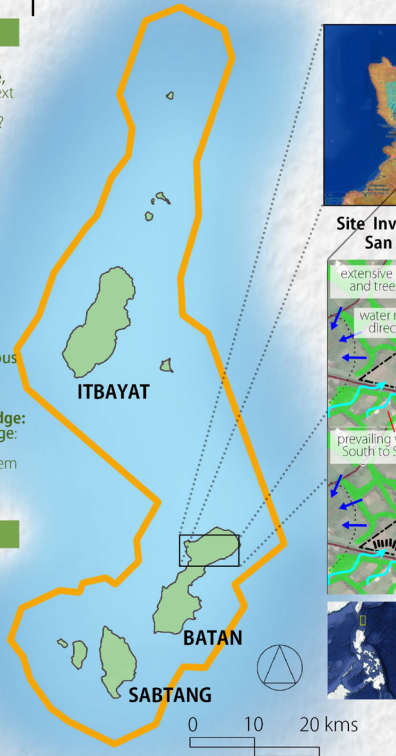
How do we respond to the concerns of **resources, culture, and environment** in the context of the distinct environmental and cultural values of Batanes?

"indigenous tourism and traditional ecological knowledge can empower indigenous peoples to apply their unique relationship and knowledge of their land for **sustainable and culturally-appropriate tourism development**"

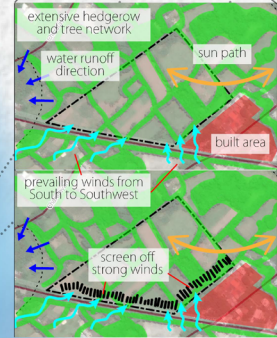
indigenous tourism: tourism controlled by indigenous people featuring indigenous themes; alternative livelihood

traditional ecological knowledge: subset of indigenous knowledge: the practical, land-based knowledge on human-ecosystem interaction held by indigenous people

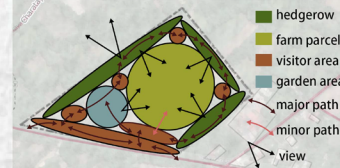
Conceptual Framework



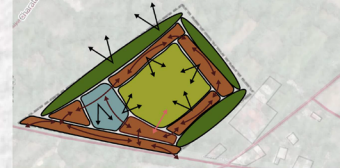
Site Inventory and Analysis of San Joaquin Community



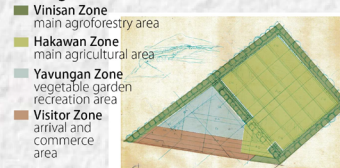
Bubble Diagram



Functional Diagram



Zoning



Design Philosophy

Ivtan Indigenous Knowledge: revolves around the traditional and continuing agrarian way-of-life;

Ivtan IK consists of **ecological and agrometeorological knowledge**.

Sustainable Agriculture in Batanes

Despite threats and weaknesses such as climate and isolation, the Ivtan traditional agriculture has guaranteed community food security for generations.

each household has enough land for food **Self-Sufficient**

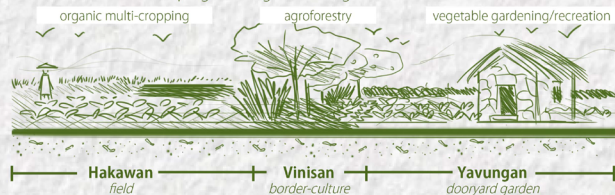
fallow system ensures **soil fertility**, cattle manure gives added nutrients; benefits for **biodiversity** **Organic**

fields are bordered by hedgerows to protected against wind and sea-spray **Climate Resilient**

Design Concept

Ivtan Ethno-landscape

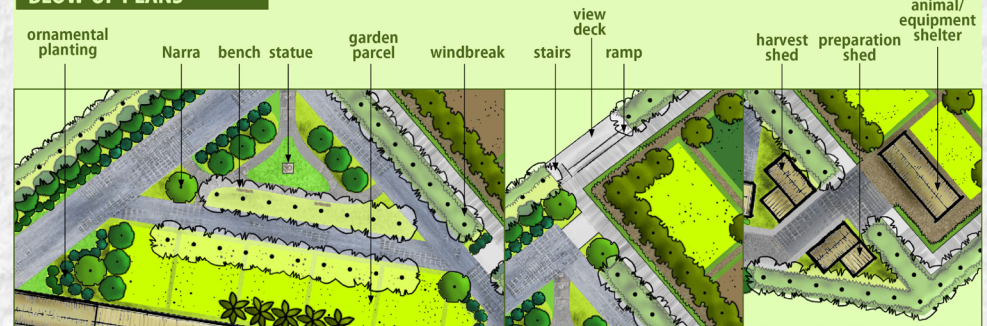
"an indigenous community's own model of culturally desirable land design"; served as a model to inform the site programming and zoning



SITE DEVELOPMENT PLAN

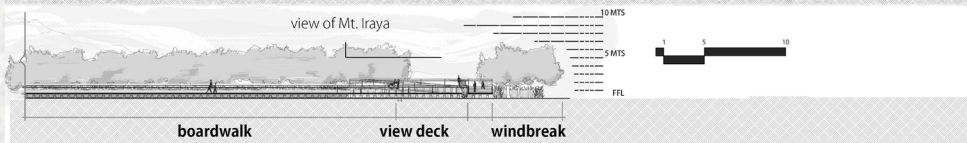
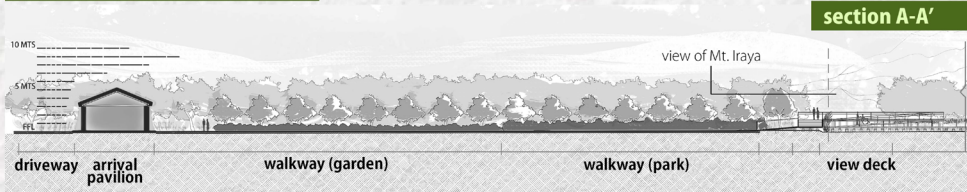


BLOW-UP PLANS

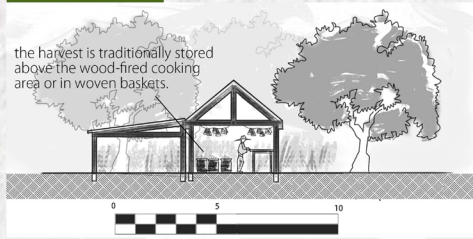




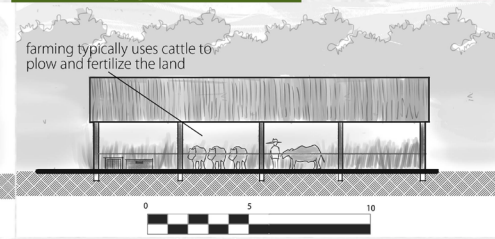
SITE SECTION-ELEVATIONS



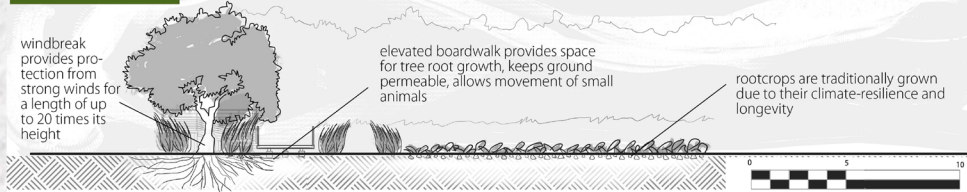
harvest shed



animal/equipment shelter



windbreak



PLANT PALETTE

TREES

- Calophyllum inophyllum* PALO MARIA/BITAOG
- Citrus medica maxima* DUKBAN
- Mangifera indica* MANGGA
- Musa sp.* VINEVEH/SAGING
- Podocarpus costalis* ARIUS/IGEM-DAGAT
- Pterocarpus indicus* NALA/NARRA

SHRUBS

- Ixora sinensis* SANTAN
- Tabernaemontana pandacaqui* PANDUKAKI/PANDAKAKI
- Lilium philippinensis* VUNITAN/PHILIPPINE LILY

GROUNDCOVERS

- Miscanthus floridus* VIAU
- Paspalum conjugatum* CARABAO GRASS

Ivatan crops and plants the following is a list of typical crops by zone they are usually grown in

HAKAWAN FIELD CROPS	YAVUNGAN GARDEN PLANTS AND TREES
<ul style="list-style-type: none"> <i>Ipomoea batatas</i> <i>Dioscorea esculenta</i> <i>Dioscorea alata</i> <i>Colocasia esculenta</i> 	<ul style="list-style-type: none"> wakay tugui uvi sudi sweet potato lesser yam purple yam gabi/taro ginger turmeric garlic bitter melon chinese cabbage mango papaya guava banana coconut

HARDSCAPE PALETTE

PRECAST CONCRETE PAVERS	CONCRETE BOARDWALK	LIMESTONE CRAZY-CUT PAVERS	WOOD-AND-THATCH STRUCTURES	STONE CLADDING	PALO MARIA WOOD	POWDER-COATED STEEL RAILING

