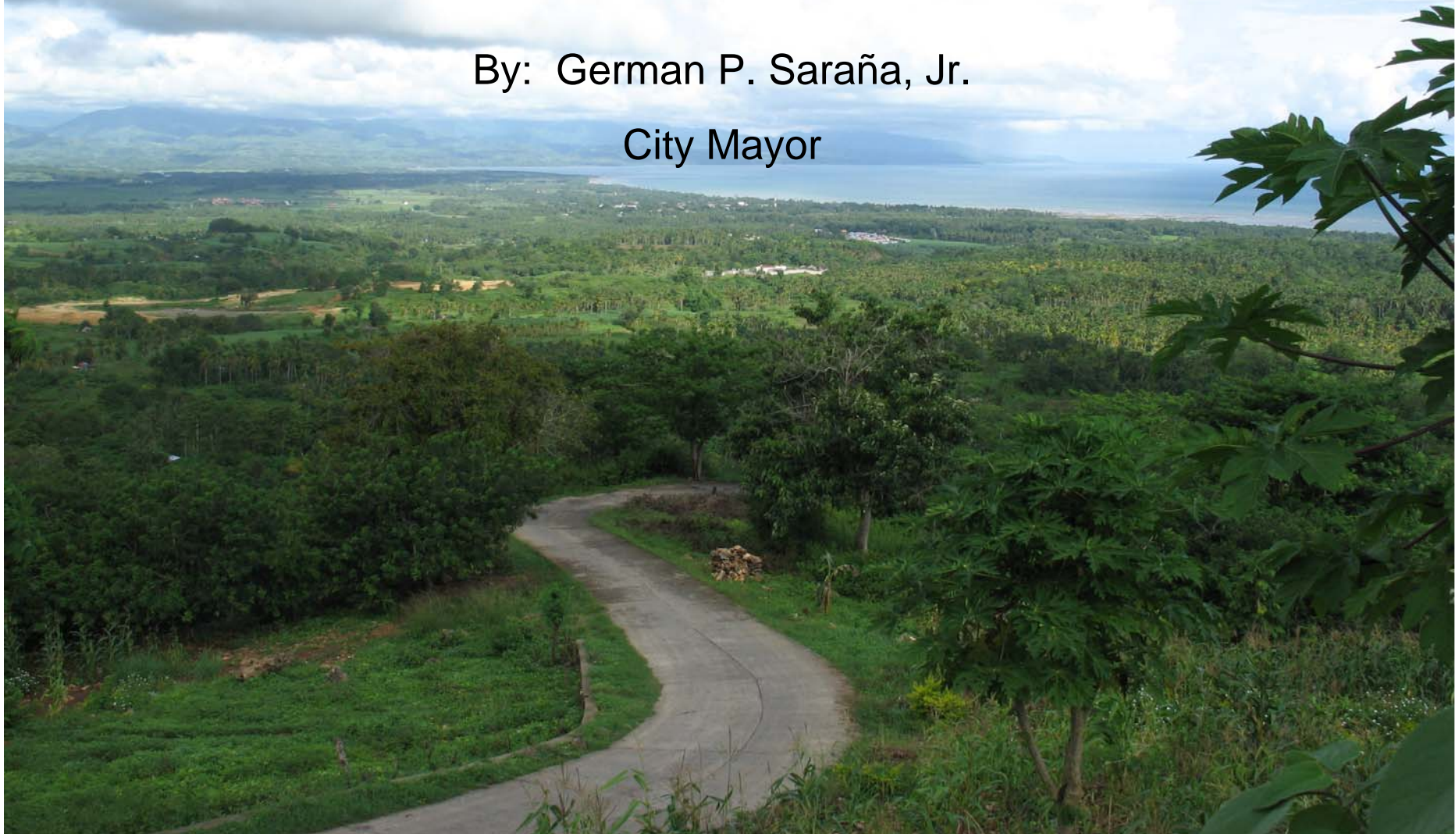


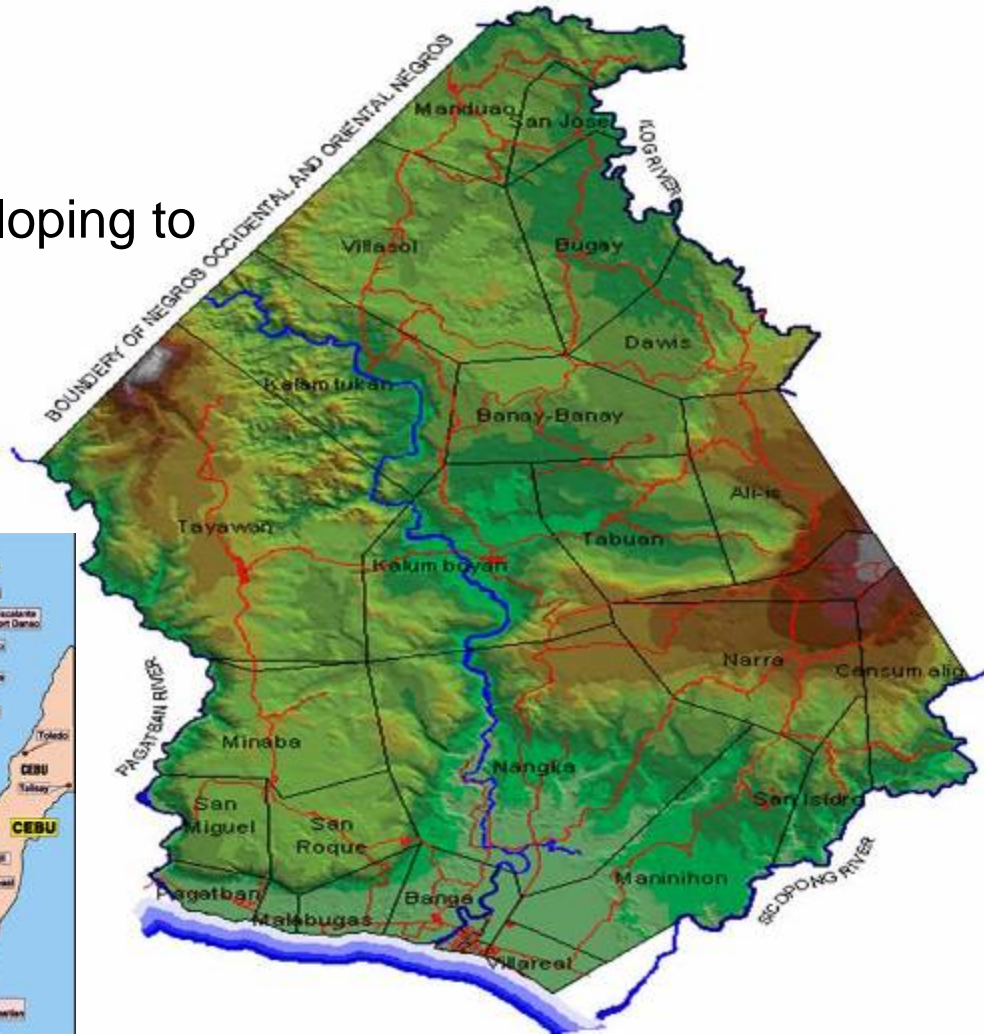
Bayawan City Adopts **Ecosan** as a Tool in Health and Environmental Management

By: German P. Saraña, Jr.
City Mayor



BAYAWAN CITY PROFILE

- Population : 105,000
- Area: 69,908 hectares
- 28 barangays (7 urban, 21 rural)
- Predominantly hilly, moderately sloping to rolling terrain
- Major crops: sugar, rice, corn

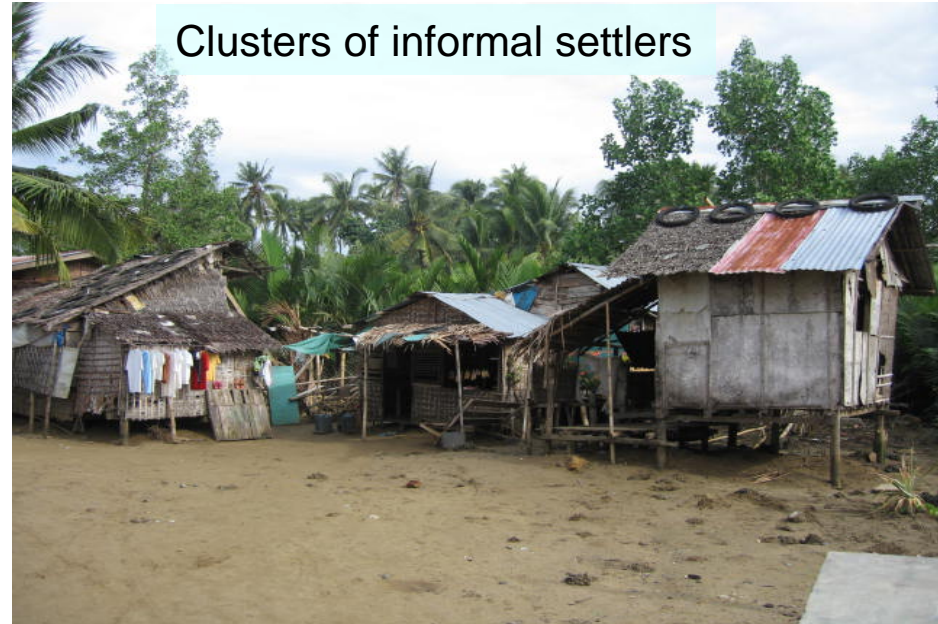


THE ROAD TO ECOSAN

The way it used to be at the coastal area.



Clusters of informal settlers



Paving the way...to ecosan



Formal agreement signed with GTZ

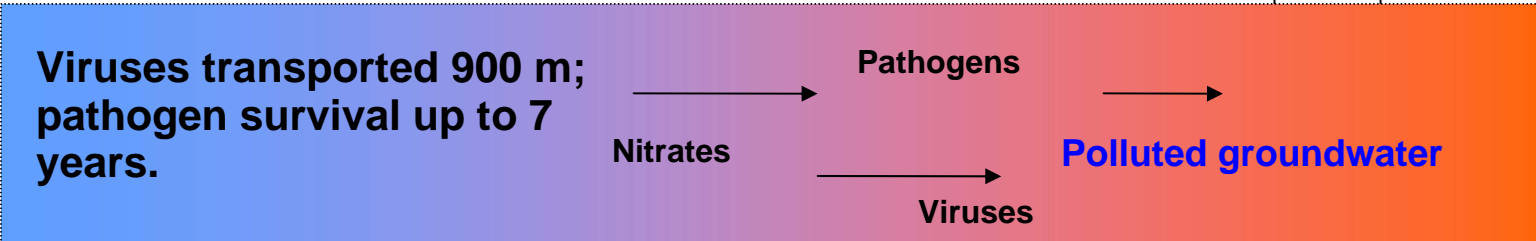
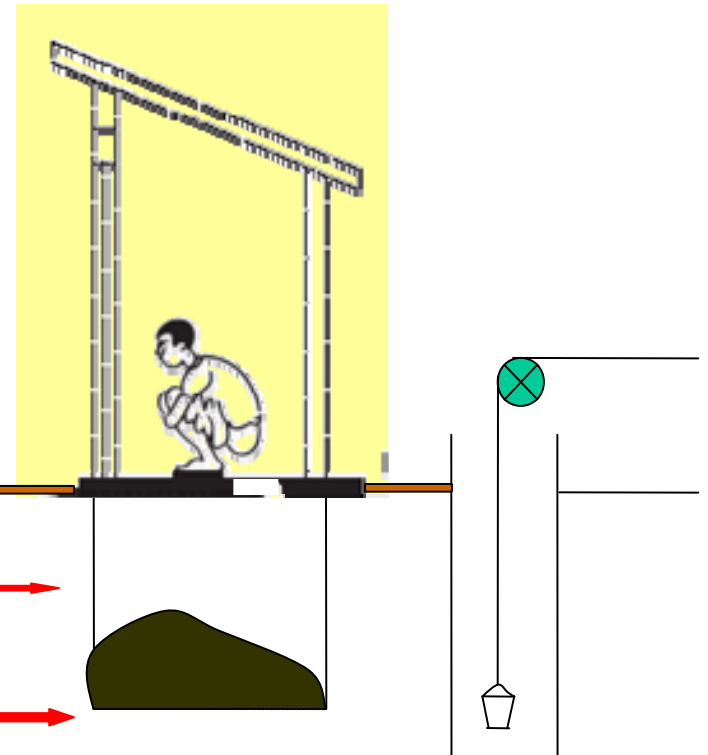
CHALLENGES IN LOCAL SANITATION



- RA 9275 – Clean Water Act of 2004
- PD 856 – Sanitation Code of the Philippines

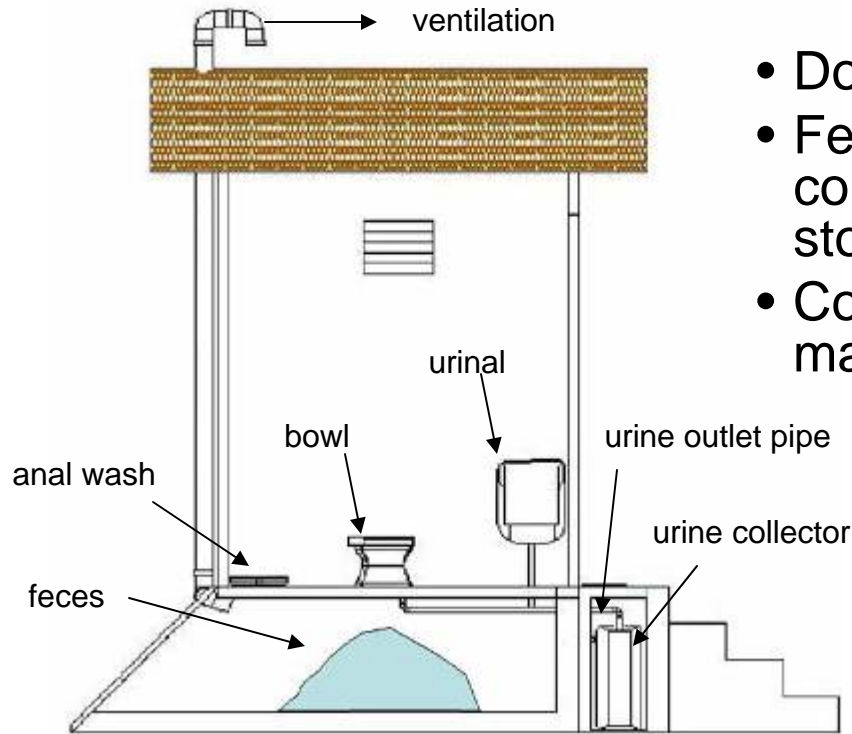


The Typical Toilet Scene - A Septic Challenge



500,000 morbidity and **4,200 mortality** cases a year in the Philippines

DESIGN FEATURES OF OUR UDDT



- Does not need septic tank
- Feces and Urine go into two (2) separate containers / chambers which serve as storage area.
- Cost is variable, depending on the type of materials used



Collaboration / Mobilization / Implementation

- The Mayor creates a Technical Working Group to implement ecosan dry toilets in the city.
- A Project Management Team was also formed to carry out various components in the constructed wetland project
- Both teams worked with GTZ experts and consultants regarding details of the projects



TWG maps out plans and strategies



GTZ experts conducting inspection and project appraisal



Education & Information Campaigns



City Mayor leads the way in advocacy of ecosan, and social preparation of qualified users



City provides for the sub-structure as key strategy

Sanitation Concept of Bayawan City (1)

- For rural / hinterland areas with scattered population, the use of on-site ecosan facilities in the form of Urine Diversion Dehydration Toilets with re-use of urine and feces.



Sanitation Concept of Bayawan City (2)

- For peri-urban areas with dense population, installation of decentralized waste water treatment with re-use options for sludge and effluent



BENEFITS AND ADVANTAGES



- Reduced pollution of the downstream environment and contamination of water for the protection of human health
- Conservation of water resources



MORE BENEFITS AND ADVANTAGES



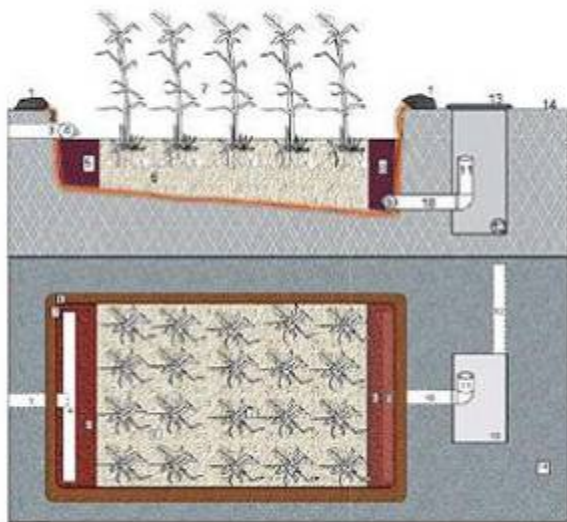
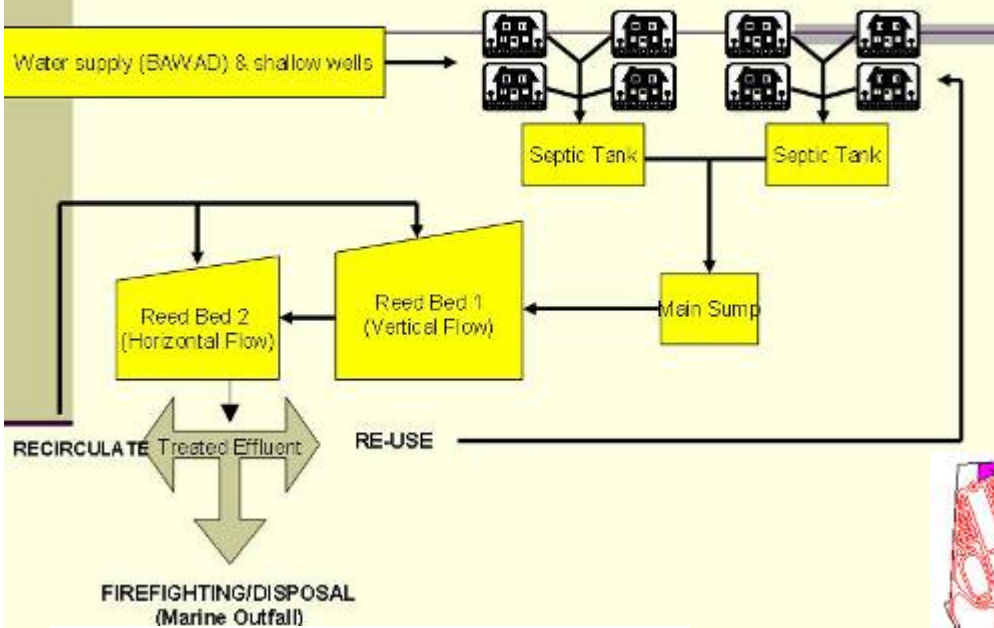
- Enhancement of agricultural productivity by treating human waste as a resource



- Protection of the environment and promotion of the general well-being

CONSTRUCTED WETLAND TREATMENT INITIATIVES

Flow Diagram



SOME OF THE TOILETS USED BY RURAL HOUSEHOLDS



Barangay Minaba



Barangay Banay-banay



Barangay Nangka



Barangay Maninihon

ECOSAN DRY TOILETS FOR PUBLIC USE



Barangay Tayawan



Barangay Narra



Barangay Kalumboyan

- These toilets were installed by the city at Barangay Agricultural Development Centers to promote the concept of re-use for farm production

INTEGRATION WITH THE CITY'S MAJOR PROGRAMS



- Healthy City
- Watershed Development
- Coastal Resource Mgt
- Solid Waste Mgt
- Organic Farming
- Poverty Alleviation
Rubber, Jatropha, Coconut, etc
- Character First
- Forest Land Use
- Food Security
- Eco-Tourism




LAUNCHING AND INAUGURATION: ONWARDS TO ECOSAN



END OF PRESENTATION

Sunset at the Bayawan Coast

A photograph of a sunset at the Bayawan Coast. The sun is a bright, glowing orb in the center of the sky, casting a long, shimmering reflection on the water. The sky is a deep orange and yellow. In the foreground, two people are silhouetted against the water. One person is on the left, bent over as if surfing or adjusting their board. The other person is on the right, standing and holding a surfboard. The water is dark with some white foam from the waves.