





System Level

Policy Framework

- Da Nang City
- Quang Nam Province

Strategies & Plans

- Socio-economy
- Green Growth
- Sustainability
- Resilience

Fields of Action

- Agriculture / Forestry
- Tourism
- Industry
- Built Environment

Technology Level

Technologies

- Synergetic, modular, adaptable, affordable, ...
- Reduction, recycling, treatment, disposal, supply, ...
- Water, energy, safe food, wastewater, waste

Empowerment

Awareness; knowledge; systemic thinking; synergetic technologies; city-province cooperation

Resource efficiency
Sustainable sanitation
Protect / strengthen biodiversity
Preservation of cultural heritage
Supply & disposal infrastructure

Implementation Level

Regulations & Governance

- Regulations for implementation
- Technology /management standards
- City- province cooperation

Stakeholder & Communication

- Interdisciplinary communication
- Stakeholder involvement / Co-design
- Information & data access

Pilot Projects / Modules

- Sustainable tourism
- Sustainable forestry and agriculture
- Decentralised sanitation
- Adapted technologies for buildings
- Sustainable industry concept







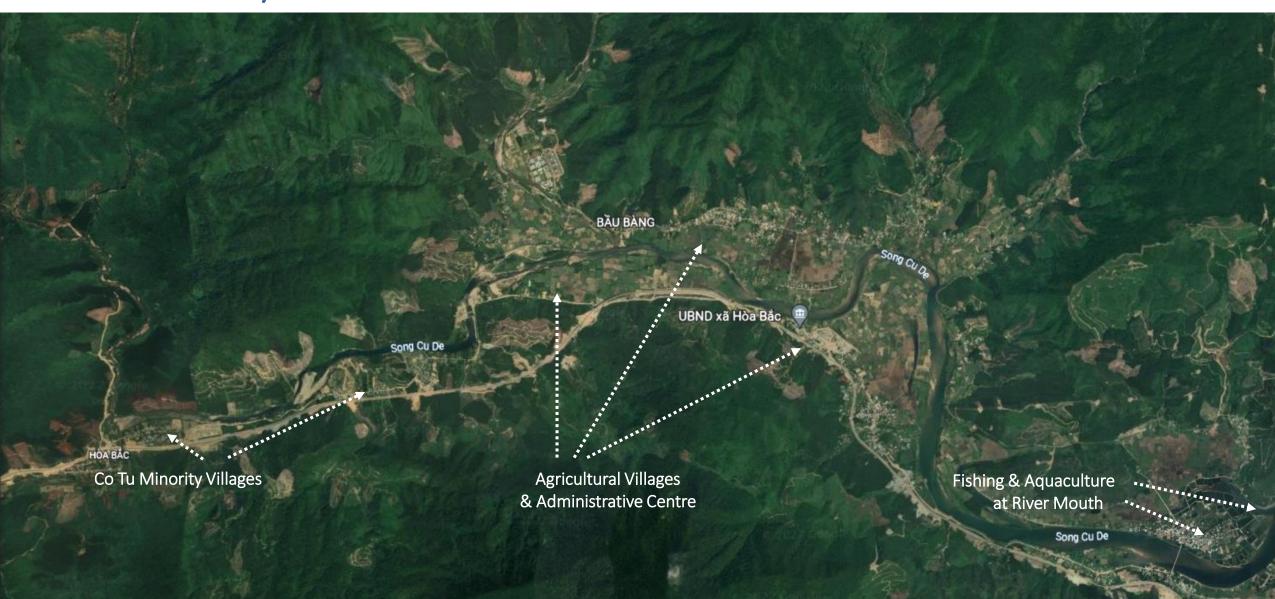
Project Location







Cu De River Valley







Cu De River Valley Activities 2019 - 2022

Summer School in 2019 in the Cu De River Valley with Vietnamese and German students

Focus groups survey with community leaders

Workshops between the community and Vietnamese students

Capacity building activities for sustainable agriculture for locals

Qualitative data collection processes with students, community leaders and local authorities





Cu De River Valley Challenges

- Preservation of cultural heritage
- Diversification of incomes
- Protection of biodiversity
- Improvement of sanitation and garbage collection systems

- Reduction in unsustainable logging activities
- Protection of water resources
- Diversification in **agriculture** products
- Implementation of sustainable agriculture practices
- Improvement in road connection to Da
 Nang

- Protection of water resources
- Implementation of sustainable fishery
- Improvement **sanitation** and garbage collection systems



Co Tu Minority Villages



Agricultural Villages & Administrative Centre

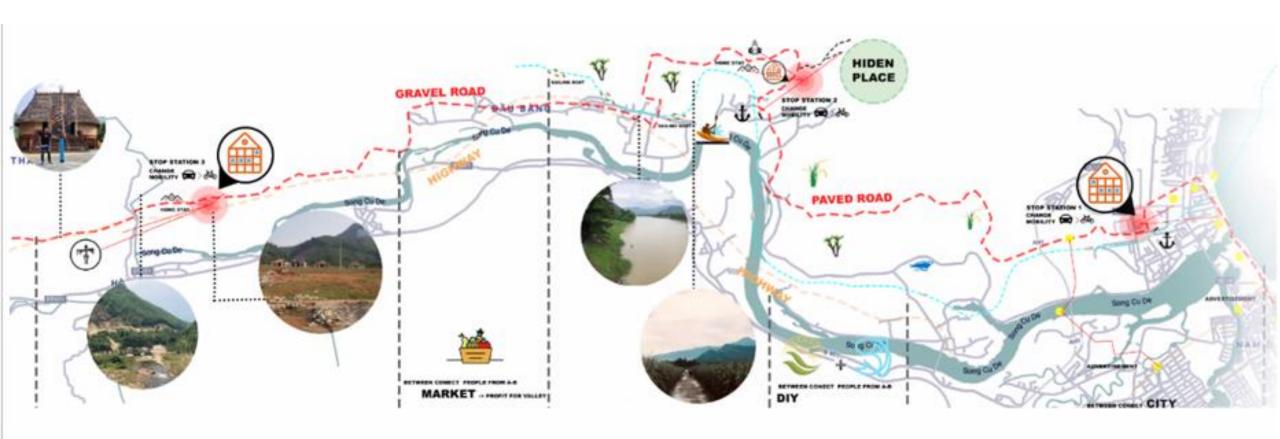


Fishing & Aquaculture at River Mouth





Cu De River Valley – Preliminary Conceptualisation



Culture Languages Visitors Home-Stays Sustainable Tourism Attractiveness Commerce
Traditions Public Infrastructure Skills Agriculture Logging Forestry Eco-Tourism Da Nang City
Community Sanitation Know-how Agriculture Logging Forestry Environmental Protection





Sustainable Community Development Concept for the Cu De River Valley -CDRV-

General Objective

Promote sustainable community development in the CDRV through capacity building and the implementation of small-scale pilot projects

Diversification of incomes

Preservation of cultural heritage

Climate change resilience

Protection of natural resources

Capacity building for sustainable tourism

An Integrated Community-Based Development Concept







Sustainable Community Development Concept for the Cu De River Valley -CDRV-

Capacity building for sustainable tourism

Pilot Projects

Culture and traditions transfer

Sustainable forestry and agriculture strategies

Sustainable sanitation strategies

Capacity building for CB initiatives

An Integrated Community-Based Development Concept





Pilot Projects

Capacity building for sustainable tourism

- Capacity building in collective action and participatory community planning
- Skill training for eco-tourism
- Stakeholders support for small-scale project implementation

COVID19 became an opportunity for the CDRV to become a local tourism destination for the Da Nang residents and some young population returned to their home with useful IT knowledge and hospitality skills





Pilot Projects

Culture and traditions transfer

- Inter-generational knowledge sharing activities
- Promotion of local handicrafts
- Skill training for cultural tourism
- Workshops with the community and visitors
- Local traditions as instruments for sustainable community development







Pilot Projects

Sustainable forestry strategies

- Capacity building workshops in strategies for sustainable forestry
- Raising awareness about the impacts of unsustainable logging practices on the local biodiversity and water quality and flooding incidence in the valley
- Strategies for mitigating the effects of current logging practices and preventing further erosion
- Ensure long-term income for the community (thematic forest tours, medicinal herbs, mushrooms, etc.)





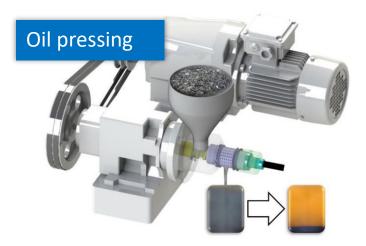
Pilot Projects

Sustainable agriculture technologies

- Capacity development in sustainable agriculture through on-site workshops
- Diversification of agriculture products
- Skill training in utilisation of environmentfriendly technologies for value-added agricultural products
- Application of sustainable postharvest technologies at cooperatives and SMEs
- Reduction of CO2 emission by integration of solar photovoltaic (PV) system for electricity generation













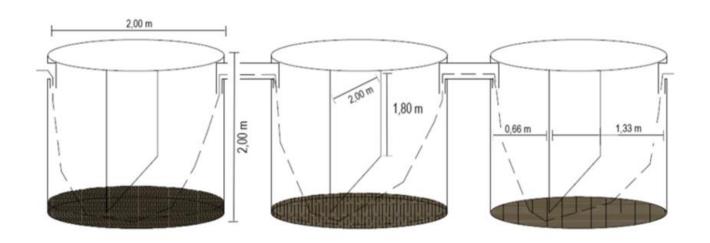


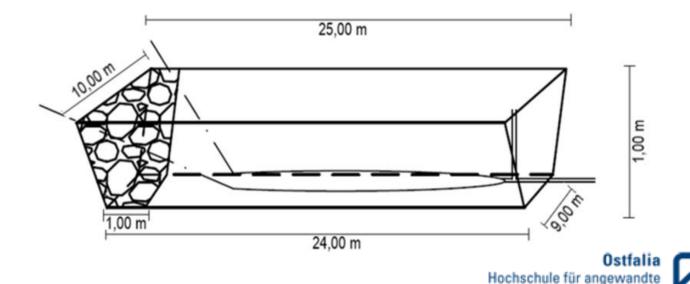
Wissenschafter

Pilot Projects

Sustainable sanitation measures

- Capacity building workshops in sanitation management
- Pilot plant for wastewater treatment at the homestay Alang Nhu in the CDRV
- Anaerobic Baffled Reactor and constructed wetlands
- Retention of solids, nutrients (e.g. nitrogen)
- Strategies for decentralised sanitation systems



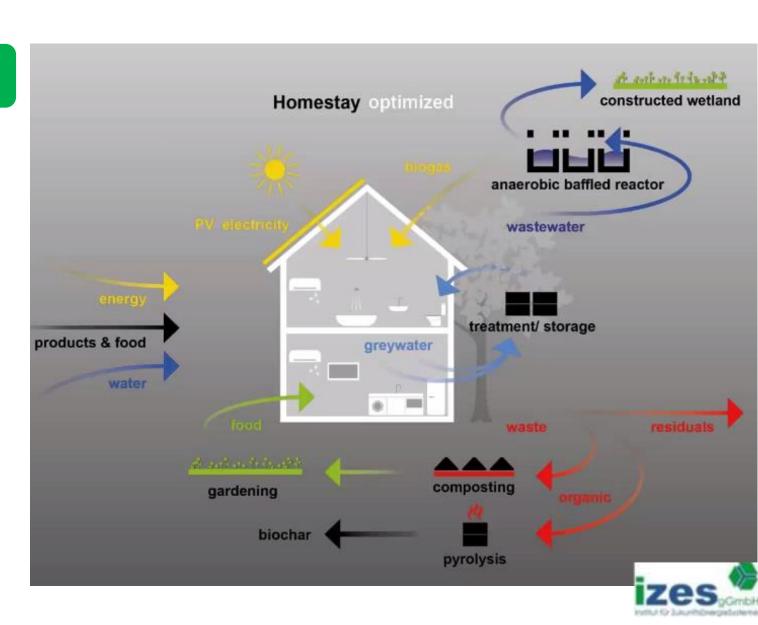




Pilot Projects

Improved technology concept for buildings

- Measures to increase energy efficiency and energy saving as well as production and use of renewable energies
- Natural ventilation and cooling in buildings to increase thermal comfort
- Measures for solid waste separating and recycling / composting
- Use of water-saving technologies, (re)use of rainwater and wastewater (grey water)
- Decentralized wastewater treatment

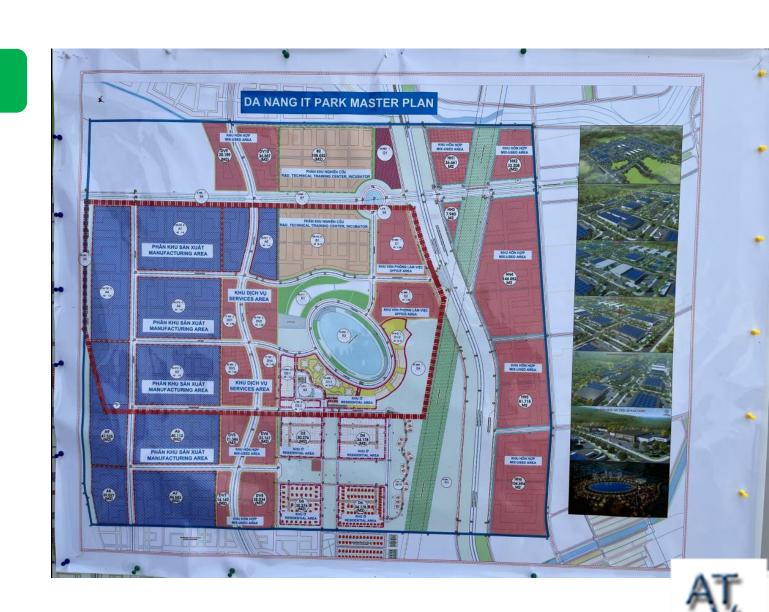




Pilot Projects

Sustainable Industrial Area (SIA) concept

- Capacity development workshops with company representatives on resource efficiency and sustainability
- Data generation on material flows / material flow analyses
- Information and data gathering on social aspects and needs of workers
- Identification of key (problem) areas and options for action
- Development of approaches for sustainable water / wastewater, solid waste, and energy management



Thank you



































