Transforming tourism value chains to accelerate more resilient, resource efficient and low carbon development

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CLIMATE CHANGE is a global fact!

La estructura organizativa de las Naciones Unidas es muy compleja e incluye gran número de agencias, organismos especializados, programas y comisiones.
International Tourism is responding to a call!
"Transforming Tourism Value Chains in Developing Countries and Small Developing Island States (SIDS) To Accelerate More Resilient, Resource Efficient, Low Carbon Emissions Development"
Project Overview

Donor: International Climate Initiative (IKI), Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB), Germany

- Philippines
- Dominican Republic

€4.98M

4 Years

Small Island Developing States:
- Mauritius
- OECS: Antigua, Grenada, Dominica, St. Kitts/Nevis, St. Lucia, St. Vincent/Grenadines
Project objectives

**Improved regulations in tourism sector**

**Increase** capacity for mitigating GHG, improve, and drive SCP

**Reduce CO₂ emissions & mitigate climate change**

**Joint initiatives and campaigns**

**Monitoring emissions and impacts**
Project Outcome and Outputs

**Impact**
(Long-term results)

- Decoupling tourism growth and carbon emissions
- Achieve National Determine Contributions (NDC) objectives + (Sustainable Development Goals) SDGs
- Strengthen capacity for evidence-based decision-making

**Outcome**

- Increase capacity for mitigating GHG, improve, and drive SCP

**Outputs**

I. Tourism Value Chains and Policy Environment with analyzed barriers and opportunities

II. Prioritized actions for GHG emissions reduction and SCP measures from the value chain hotspots analyses

III. Life cycle-based emissions reduction and resource efficiency action framework with specific indicators for mitigation and SCP priorities

IV. Improved local institutional and networking support capacity

V. Knowledge products and project results disseminated to regional networks
RD: one of the pilots

- DR economy depends mainly in tourism
- DR is in the list of the 15 countries more vulnerable in terms of CC effects
- We, as a country, committed to reduce 25% of our GHG by 2030
- Today 6 M tourists, up to 10 M in 2020
90.5%

9.5%

Nacional hotel rooms
Secondary Stakeholder

- National/Local Food/Drink Producers
- National Wholesalers & Distributors
- Importers
- International Wholesalers & Distributors
- International Food/Drink Manufacturers
- International Travel/Tour/Conference Organisers

Primary Stakeholder

- Handicraft/ Souvenir Producers
- Operators of Tourism Activities
- Equipment Manufacturers
- Furniture Manufacturers
- Food/Beverage Suppliers
- Consumables Manufacturers & Suppliers
- Transport Operators, Taxi etc
- Travel/Tour/Conference Organisers
- Water/Energy Suppliers
- Waste Water Managers
- Waste Recycling & Disposal Managers

Consumption

- Tourists
  - International
  - National
- Energy
  - HAV
  - Cooling
  - Refrigeration
  - Lighting
  - Laundry
  - Other
- Transport
  - Excursions
  - Transfers
  - On-site
- Consumables
  - Bedding/Furnishings
  - Soaps/Guest accessories
  - Cleaning products
  - Chemicals
  - Gardening products
  - Etc, etc
- Waste Management Services
  - Waste collection services
  - Recycling/reuse services
  - Landfill/compost/incineration services
  - Mains sewerage
  - Direct waste water discharge

Supply

- International Transport
  - Grid
  - Own/local
- Energy
  - Grid
  - Own/local
  - Electricity
  - Oil
  - Gas
  - Solar
- Transport
  - Bus/taxi
  - Bike/low carbon
- Consumables
  - Import
  - National
  - Local

Provincial & Local Government / Ministries of: Tourism, Trade, Transport, Agriculture, Energy, Rural Affairs, Water
Greenhouse Gas Emissions

Scope 1: 6%
Scope 2: 21%
Scope 3: 73%
National hot spots in DR

Accommodation

F&B
SOME INTERESTING DATA: METHANE PRODUCTION PER YEAR

0 kg/year
8 kg/year
0.5 kg/year
0.12 kg/year
MEAT: Value Chain and Lifecycle
# HOT SPOT Analysis

## Product:
Meat

<table>
<thead>
<tr>
<th>Raw Material</th>
<th>Manufacturing / Production</th>
<th>Distribution &amp; Sales</th>
<th>Use / Consumption</th>
<th>End of Life (waste)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Methane emitted from enteric fermentation (digestion), manure.</td>
<td>Greenhouse gas emissions from use of electricity and from transportation to slaughterhouse.</td>
<td>Greenhouse gas emissions from storage and cooking</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Water use in feed production and for livestock drinking (dominated by rainwater).</td>
<td>Slaughterhouse processing and energy used in refrigeration contributes to after farm gate emissions.</td>
<td>Transportation and distribution has high energy use</td>
<td>Energy efficiency of cooking dependent on heating method, cooking time and number of portions cooked.</td>
</tr>
</tbody>
</table>

## Questions:
- Are any standards used to specify raw materials?
- Are materials of products from in country or imported?
- Do you purchase from farmers, manufacturers, wholesale or retailers?
- Who decides what is ordered / offered?
- What options are there at end of life?

## Answers:
- Cattle raising + forestry
- Reduce raising cows cattle
- Raise pig cattle
- Raise wool cattle
- Analyse new diet to reduce gas emissions from cows
- Improve local production
- Reduce imports
- Promote “0 Kms consumption
- Educate tourist
- Change menus
- Low Carbon Menues
- Once a week Veggie menu

## Who can influence the impact of this stage? For example government, tour operators, restaurants.

## How can this be influenced? Ideas for long list discussion.

## WASTE:
- Compost
- Food for animals
- Biofuel

## SWAGE:
- Reuse water in gardens
Linear Economy to Circular economy

Raw Production

Manufacturing

Use / consumption

End of life

Raw Production

Manufacturing

Use / consumption

End of life
Linear Economy versus Circular economy:

**KARISMA HOTELS / MEAT**

- **Local producers**
  - Different and fresher meats
  - Compost
  - Other
  - Biogas
  - Energy

- **Art ans Craft**

- **Diverse menu**
  - Organic gardens
  - Organic vegetables
  - Fresh meat!
  - Save energy
  - Savings $$ (less transport and better local prices)

- **Waste**
  - Clasification
  - Save money in waste management ($$ $)
  - Sale the organics to farmers = $$
  - Sale the inorganic to other buyers ($$$)

- **Gourmet NO BUFFET (less waste)**
Circular economy means: THINK GR$$N AND ACT GREEN!

- GHG
- Waste
- Less risks (animal illness)
- Investment in transportation
- Energy (less refrigeration in transportation)

+ Local opportunities
+ employment
+ economic diverification
+ Up scale the tourist offer
+ Promote helthiness
+ Savings in meat (local)
+ Savings (no waste management)
+ Fresher products
+ Bussiness for all
+ Energy savings (fresh local meat = less refrigeration)
Theres still many challenges...

- Culture
- Education (any level)
- Tecnology
- More good examples and case studys
- Government support
- Think as a whole
- etc
To be creative..THATS THE KEY!