

Sangana PPP



Climate Change & Coffee

*Carbon & Water management in horticultural exports
from East africa workshop - Naivasha*



Coffee + Climate Change

ICO says:

While climate change is just one of numerous factors that may affect global coffee production, it is nonetheless likely to be one of the most important ones.

Research institutions (CATIE / CIAT) say:

Due to changing weather patterns coffee zones are already affected. Adaptation is key to securing production systems.

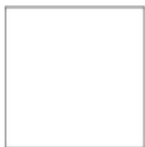


Producers say:

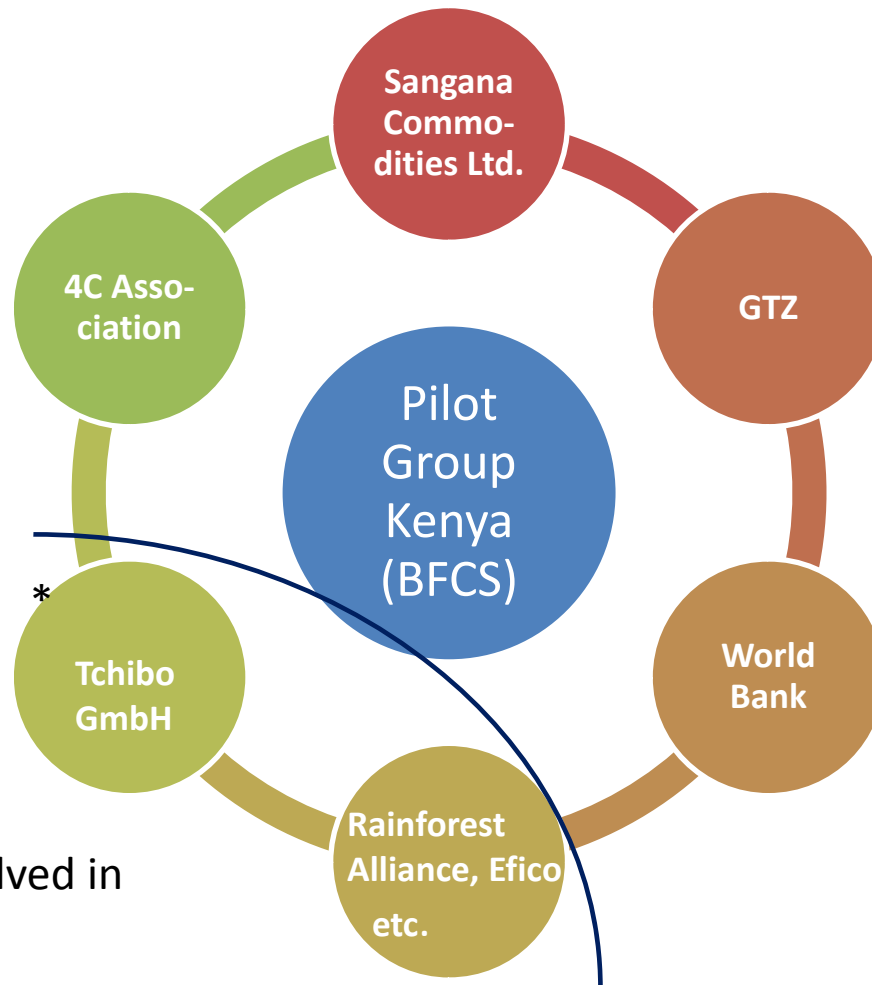
Rains are changing affecting flowering and therefore distorting our whole production cycle.

Traders say:

Coffee is a vulnerable crop to changes in climate. We are having trouble finding the right quantities and qualities for our markets.



PPP Partners



* Included as extra partners as not involved in the original project proposal



Goals

Mitigation

- Create a **link** for coffee smallholders to the **carbon markets**

- ✓ Develop a baseline
- ✓ Develop a methodology

World Bank
+ Sangana

Adaptation

- Create a **verifiable additional standard module** on climate change

- ✓ Focus on adaptation
- ✓ Synergies to mitigation where possible

Sangana +
GIZ + 4C



Climate vulnerabilities of Kenyan coffee farmers

Baragwi Farmers

Cooperative Society Ltd:

- Deforestation
- Pests & Disease
- Erosion
- Poor farming practices

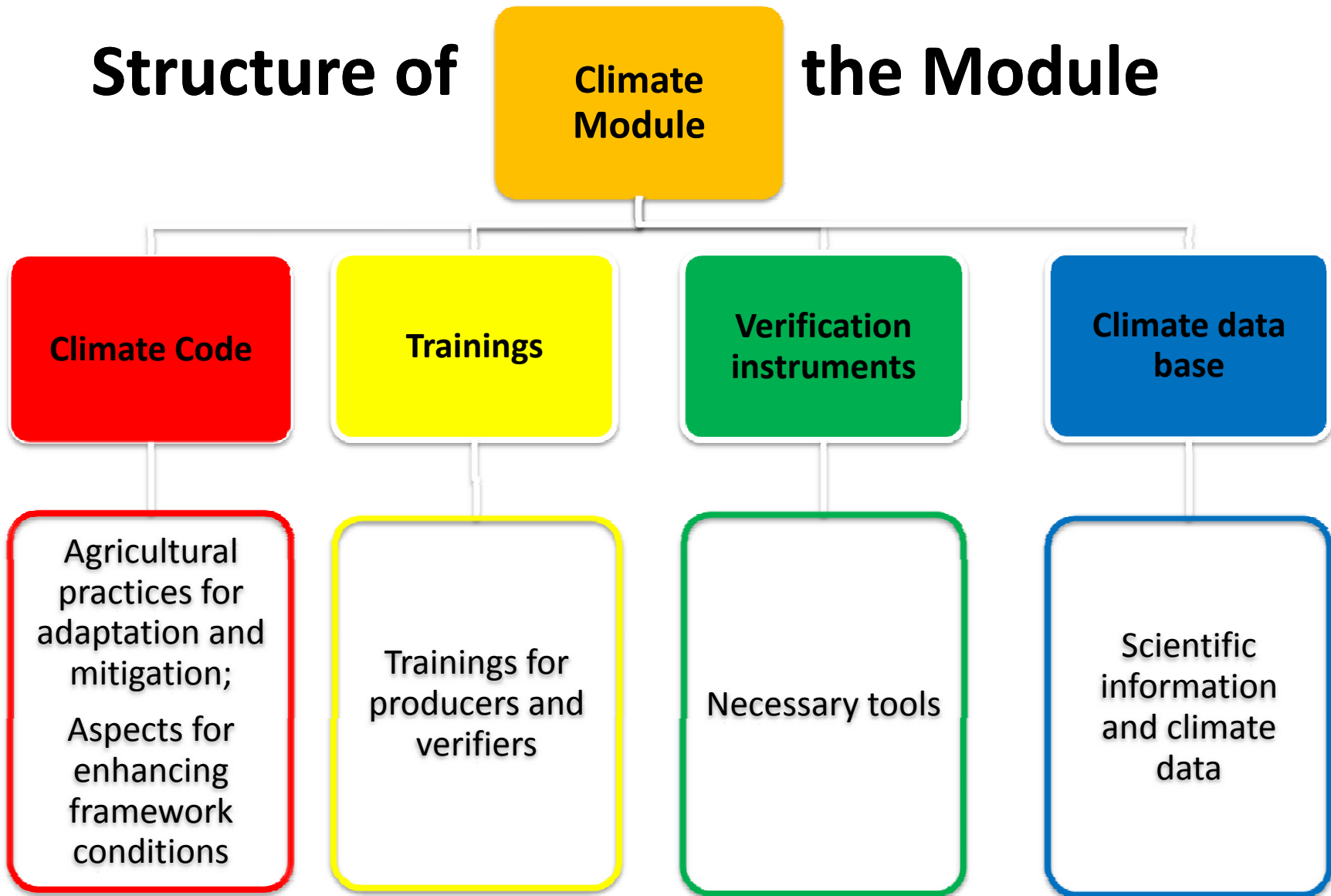
KOMOTHAI Coffee

Growers:

- Deforestation
- Expansion of agricultural boundaries
- Cultivation in water catchment areas
- Water pollution



Structure of **Climate Module** the Module



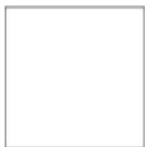
Results



Climate Module

- **Climate Code** developed and successfully tested with Baragwi
- Several **trainings** to support the implementation of the Climate Code developed
- Verification **tools** according to 4C verification process developed
- **Collection** of relevant scientific texts, climate data (maps) and web links to further information
- **Guide book**

All results: www.4c-coffeeassociation.org/en/events.php



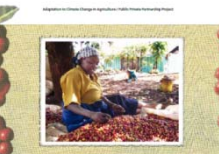
Results

Trainings



Climate change adaptation and mitigation in the Kenyan coffee sector
A practice-oriented training

Training Manual
Version January 2011



Climate Change and Coffee
Training for coffee organizations and extension services

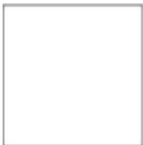
gtz



Monitoring greenhouse gases in agroforestry systems
Training guide for producer organizations and extension staff



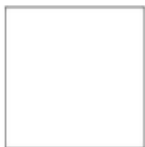
- **Manual** by Sustainable Management Services Ltd on **Good Agricultural Practices**
- 1-day **introductory training** (digital manual + presentations)
- **Manual** incl. overview on coffee and CC in Kenya, guidance for working on CC with farmers in the field, the methodology **for participatory analysis** of climate vulnerabilities + risks, an introduction to mitigation
- 3-day **on-farm carbon monitoring** training (digital manual + presentations in English and Spanish)
- Training for **certification bodies** (presentation)



Results

Mitigation

- Draft **methodology** (soil carbon)
- Draft **carbon** and **socio-economic baseline**
- On-farm emissions of Baragwi farmers assessed via a **greenhouse gas calculator – the Cool Farm Tool** (Sustainable Food Lab, University of Aberdeen & Unilever)



Lessons learnt on the Code

Easy for producers:

- Defining **climatic changes** over past years
- Defining **negative impacts** of these changes
- Understanding the **link** btw human activities and CC

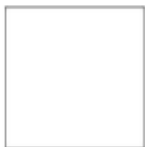


Challenges:

- **Terminology:**
adaptation,
mitigation, GHG...
- Convince farmers not to
plant directly along
rivers
- Tree **data collection**

Solutions:

- **Examples** and illustrations
- Awareness raising and
trainings
- **Simplified** data sets



Lessons learnt - general

- Producers have their own **coping mechanisms** and have to be involved in finding the **solutions**
- Adaptation has to be a **mix** of scientific and participatory approaches
- Local, regional and national **networks** are necessary for successful adaptation
- **Funding** for adaptation is one of the biggest challenges
- **Adaptation** can have **mitigation effects**
- In agriculture adaptation is **more important** than mitigation
- **Data collection** for mitigation is cumbersome and not (always) precise



First perceived impacts at Baragwi

- Increase in **awareness** on climate change and environmental issues
- Rising **water levels** in local river streams due to improved conservation of riparian land
- Due to **increased quality** coffee **prices** paid to farmers have improved
- Some producers have increased their **production**
- Farmers who had abandoned their coffee farms have started to **take it up again**
- **Job creation**: youth is contracted to do the spraying
- The **youth** is gaining interest in farming again



CC is happening now!

The winners will be those, who are best prepared!



GIZ

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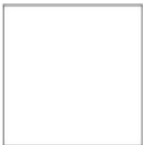
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Thank you

