

South-South Cooperation Solution: Rice Value Chain Project in West Africa

WFP China COE
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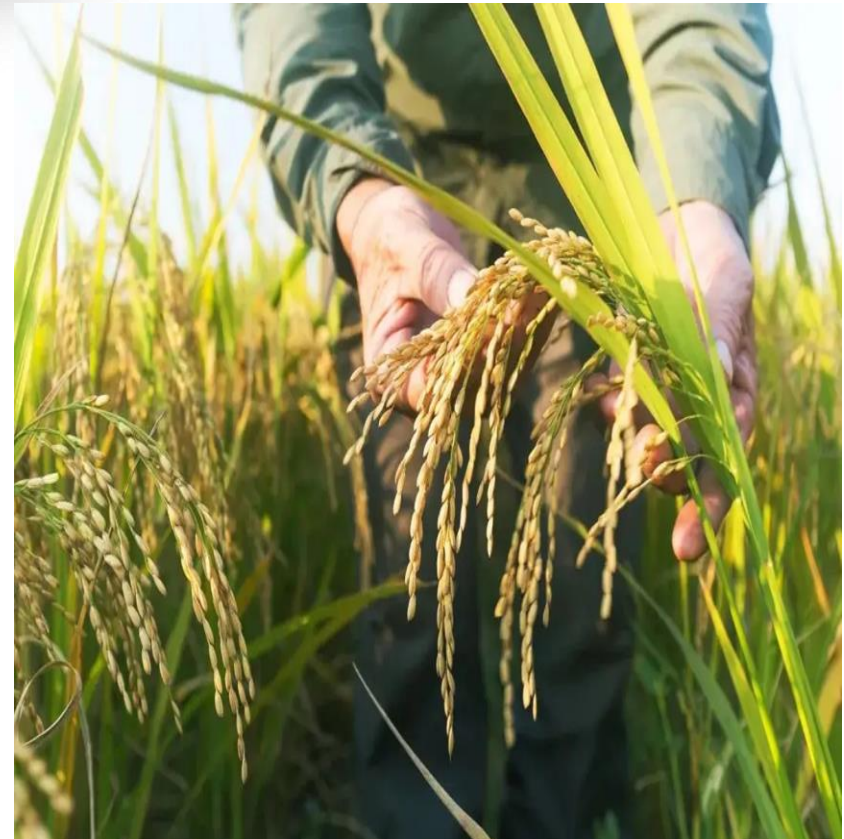
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01

Background of the Rice Sector In Cote d'Ivoire and Guinea

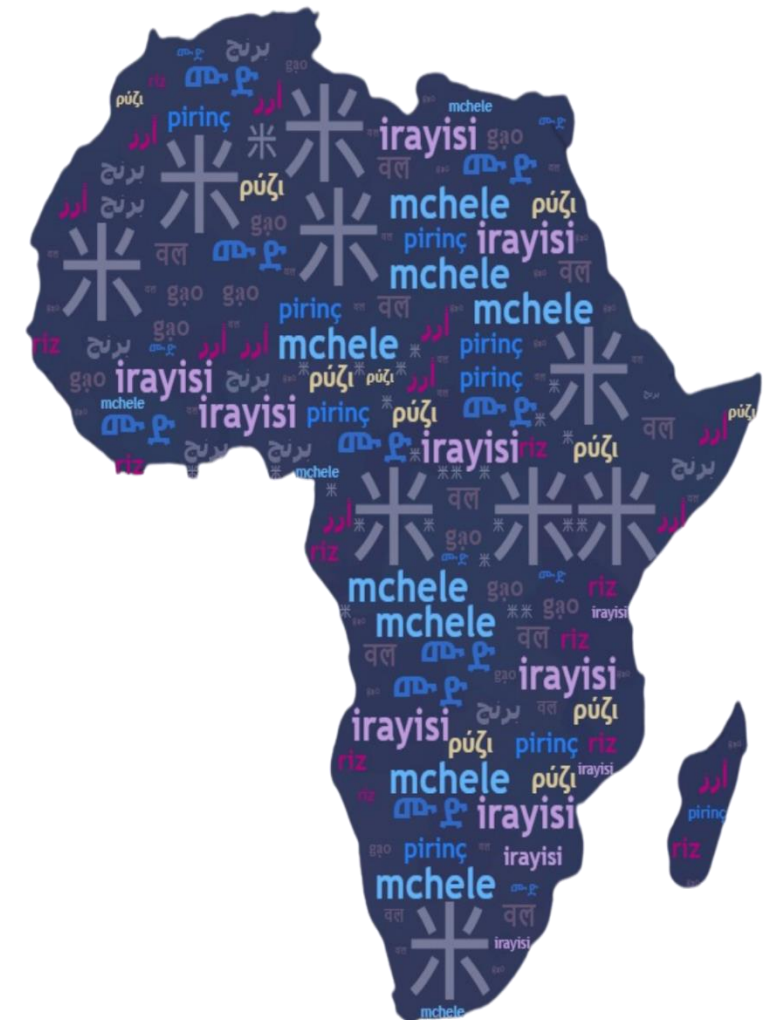
Importance of Rice in Africa and Background of Rice Sector in CIV

Importance of Rice

- One of the most significant calorie providers in Africa, 40 out of 54 African countries grow rice. Guinea and CIV rank 5th and 6th in rice production.

Cote d'Ivoire

- CIV produced 1 million tons rice in 2023, and imported 1.3 million tons at the expenditure of 810 million USD
- Over 80% of rice growers are smallholders



Rice Sector in Guinea

- Rice is main crop in Guinea, as well as the largest imported food item, making up almost **40% of all food imports** and accounting for **0.69 million tonnes** in 2020 and cost **USD 239 million**.
- According to the development plan of the Guinean government, it is planned to increase the annual rice production to **4.6 million tonnes** by 2025 (2.35 million in 2021). In addition to meeting the needs of its own people, it can also export some rice to other countries in the West African region.

Major problems of Rice Sector in Côte d'Ivoire and Guinea

Problems

Low-yield varieties are sensitive to pests, disease, and climate change

Traditional production pattern

Low capacity of rice processing

Inadequate postharvest management practices

-- loss ranging 20%-40%

Limited market infrastructure and linkage



Backward of Post-Harvest Facilities in CIV



Rice farmer's storage house



Local rice miller



Rice after miller

02

Rice Value Chain Project Formation and Main Content

WFP's Project intervention for strengthening rice system in West Africa

- ❖ UNOSSC rice value chain project in 2021-2022 in CIV, 100,000 USD
 - supporting rice groups by providing small equipment: tractors, rice huskers, threshers
 - training courses-crop cultivation, postharvest loss management
 - providing agro-inputs
- ❖ WFP-MARA OPP in Guinea in 2021
 - online training on post-harvest management

Rice Value Chain project funded by GF

- The strong willingness of the previous project beneficiaries
- Enlarge the WFP's previous effects

Rice Value Chain Project Briefing

- Financed by the GF (Total **830K USD**)
- **More than 10** communities in CIV and Guinea
- **2000** smallholders as beneficiaries



Project Goal & Highlights

Project Goal

- Setting up a community-level rice value chain model for scale-up
- Improving rice post-harvest loss control



Highlights

- Rice processing line
- Community rice storage house
- Smallholder family grain storage equipment (mini steel silo), and mini silos making machine
- Market access: WFP school feeding program, local purchase, farmer association organized sale

03

Main Outcomes and China COE's Role

Project outcomes

- ❖ **Outcome 1: Policy intervention: policy dialogue increased consensus and awareness to develop the rice value chain in Western Africa.**
- ❖ **Outcome 2: Target smallholder farmers benefited from agro-inputs, small-sized machines & equipment and related knowledge and skills.**
- ❖ **Outcome 3: Demonstration of rice processing and storage to benefit local communities.**
- ❖ **Outcome 4: Partnership development activities were conducted, and technical cooperation between China and Africa in the rice value chain was forged.**
- ❖ **Outcome 5: Rice value chain knowledge products development and sharing.**

Progressive Outputs - major physical progress

- The project has provided smallholder farmers with agricultural inputs. 1,875 kg of seeds and 13,350 kg of fertilizers were distributed in project communities.
- 50 local made silos, 6 tarpaulins and 350 bags.
- 2 rice processing lines provided to project communities in CIV and Guinea
- 4 communities' grain storage houses built
- Over 10 on-site and online training courses



600 mini silos imported from China to CIV and Guinea

Mini Steel Silo

- Solving the problem of postharvest loss during storage
- Successful experience in China
 - Farmer level storage loss reduced from **8% to 2%**
 - Economically feasible



Features

- Moisture-proof
- Rodent control
- Durable
- Multiple usage
- Possibility of local manufactory

Mini silos making machine introduced into CIV project site

One set of mini silos making machine in CIV, making the local production feasible, more economic and sustainable



Rice processing lines were introduced in the project communities in CIV and Guinea



WFP China/China COE- leveraging Chinese technical resources

1. SINOGRain Chengdu Research Institute:

--Technical support in rice post-harvest technology

A research institute specialized in grain storage. One of the key institutions to implement farmer level grain storage project in China.

2. Chinese technology teams in project countries

-- **Liaoning International Technical Cooperation Company in CIV**

--conduct local on-site rice cultivation training courses

--provide agro-machine training

--provide rice processing line operation guidance

Rice farm in Guiguiduo of CIV established by China Aid – (CILC)



<https://h.xinhuaaxmt.com/vh512/share/11848344?d=134d6ed&channel=weixin>

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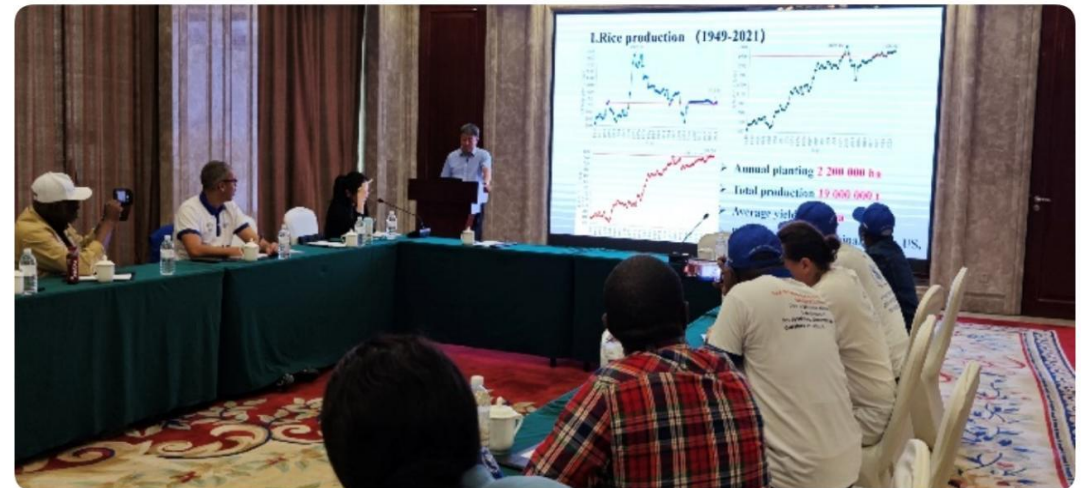
Involvement

- Using this experimental farm to show an example of the rice value chain
- Training resources for rice production technology, processing and storage, agro-machinery
- Consulting services for rice processing operation and maintenance
- More advanced technologies show the future development



3. Study Visit to China

- A delegation from CIV and Guinea visited China in June 2023 and September 2024.
- The groups toured various counties in Jiangsu, Sichuan and observed the entire rice value chain operation in China.
- The visits gave first-hand information and set wide contacts with Chinese partners
- Participants got direction and confidence in developing the African rice value chain.



4. Key activities of China COE: development of knowledge products – for Cloud School

Rice Value Chain Training Course Package

- Overview of the policy of the rice industry in China
- Rice Production
- Rice Harvesting
- Rice Processing
- Rice Storage Management
- Mini Steel silos

Thank You

