

Knowledge Bulletin #1

# POST HARVEST MANAGEMENT



**With this Knowledge Bulletin, the Green Innovation Centers for the Agriculture and Food Sector aim to leverage and share the knowledge we have gathered on various topics we have worked on over the past decade. Before our implementation comes to an end next year, this bulletin will be published every eight weeks in a total of six editions. We hope to provide you with valuable insights through this concise format.**

## **Focus Topic: Post Harvest Management**

Post-Harvest Losses (PHL) pose a major challenge to global food security. It is estimated that around 14% of total food production worldwide is lost between harvest and retail - an alarming figure, especially given the continuing high hunger figures of around 733 million people (World Food Programme, 2021; Global Hunger Index 2024). Reducing PHL offers the opportunity to improve the livelihoods of smallholder farmers, increase the availability of nutrient-rich food and utilise natural resources more efficiently. The project 'Green Innovation Centres for the Agriculture and Food Sector' (GIAE), funded by the German Federal Ministry for Economic Cooperation and Development (BMZ), is dedicated to this topic with targeted measures and innovative approaches. This newsletter summarises all the information, studies and materials developed as part of the project.



## Content on our KC-Platforms

### IDA



#### **The Contribution of the Green Innovation Centres to Reducing Post-Harvest Losses**

The Green Innovation Centers for the Agriculture and Food Sector (GIC) addressed the topic of Post Harvest Management since their start in 2014 by promoting appropriate adapted mechanization, training farmers in Good Agricultural Practices, strengthening processing options and facilitating market access. In this factsheet we present experiences from selected partner countries.

[English Version](#)

[French Version](#)

[German Version](#)



#### **Study on Economic Sustainability of Post Harvest Investments**

The aim of this study is to provide an objective and economically differentiated analysis of investments targeting PHL in India, Viet Nam, Mali, Burkina Faso, Côte d'Ivoire, Zambia and Malawi. It covers the entire downstream value chain (VC), including harvest, sorting, storage, transport, and processing of agricultural products. By identifying critical loss points and

assessing the economic effectiveness and sustainability of investments, the study gages the measures and makes recommendations to achieve the most impactful outcomes.

[English Version](#)

[French Version](#)



### **Bridging Gaps and Embracing Innovation: A Study on Post-Harvest Management**

In this publication, experts from FAO, GIZ, CIMMYT, AfricaRice, and Sokoine University, explore challenges and solutions in post-harvest management. The study promotes knowledge sharing, gender inclusion, and climate adaptation. It also provides recommendations targeting practitioners, NGOs, researchers, and policymakers.

[English Version](#)



### **Poster about PHL Reduction Training**

An introductory poster about the Post-Harvest Loss (PHL) Reduction Training that was developed as part of the GIC project in Mozambique, Burkina Faso, India, Zambia, and Viet Nam.

[English Version](#)

[French Version](#)



### **Article ‘Why we need to go beyond technology’**

Food loss and waste is a multifactorial phenomenon. This article, co-authored by GIC PHL-expert Heike Ostermann, argues that one-dimensional efforts to mitigate it, such as providing storage technologies, will not prove successful in the long-term. Therefore, the authors call for a more systemic approach to address the existing challenges.

[Odjo u. Ostermann \(2023\): Why we need to go beyond technology](#)



**Good practice manual for the storage, conservation and management of sesame and rice stocks (Burkina Faso)**

[French Version](#)

**Trainer's manual on good agricultural practices for sustainable production of quality sesame (Burkina Faso)**

[French Version](#)

**Training of trainers on reducing harvest and post-harvest losses in the VC Rice (Burkina Faso)**

[French Version](#)

**Training Manual on Harvest and Post Harvest Management for the VC Rice (Viet Nam)**

[English Version](#)

[Vietnamese Version](#)

**Farmer Training Manual for Livestock Extension Staff on Post-Harvest Losses in dairy (Zambia)**

[English Version](#)

**Picture Boxes on PHL/PHM for the VC Soja and Cashew (Togo)**

[Soja \(French Version\)](#)

[Cashew \(French Version\)](#)

**Training Module on GAP (Good Agricultural Practices) for Harvest and Post–Harvest Management for the VC Rice (Ghana)**

[English Version](#)

**Strategy Paper on GAP (Good Agricultural Practices) for Harvest and Post–Harvest Management for the VC Mango (Mali)**

[French Version](#)

**Factsheet on GAP (Good Agricultural Practices) for Harvest and Post–Harvest Management for the VC Mango (Mali)**

[French Version](#)

*This selection only includes the documents that address PHM/PHL as the main topic. However, there are numerous other documents that deal with the topic as a cross-cutting issue. It is therefore worth exploring other country pages on Atingi: [GIC Atingi](#)*

## YouTube



### **Playlist on the topic of Post Harvest Management (PHM)**

There is a playlist on the topic of 'Post Harvest Management' on the YouTube channel of the Green Innovation Centres. It contains a collection of topic-related videos in several languages.

[GIC YouTube Playlist | Post Harvest Management \(PHM\)](#)

## Network Contributions

*This section highlights cross-topic contributions from the Green Innovation Centers published on external platforms. These contributions are independent of the main theme of the current Knowledge Bulletin.*



### **Panorama (GIZ Partner Platform)**

[\(PANORAMA | Solutions for a healthy planet\)](#)

Panorama is a knowledge exchange platform where experts from around the world can share practical solutions to local challenges in areas such as agriculture, biodiversity, conservation and restoration, nature-culture interaction, and more.

[Training for Post Harvest Loss \(PHL\) Reduction | PANORAMA](#)

[Farmer business school \(FBS\): Entrepreneurship training to understand agriculture as a business. | PANORAMA](#)

[Solution | System of rice intensification \(SRI\): A tool for enhancing the productivity of farmers and reducing the ecological footprint in the rice sector](#)

[Solution | SME Training and Coaching Loop to support small and medium enterprises](#)



## Food4Transformation Platform

On the Food4Transformation website there is a separate section on the Green Innovation Centres project, where success stories, work examples, and project reports can be found.

GIC project website: [Special - Food4Transformation](#)



## KCOA-Platform (Knowledge Platform for Organic Agriculture and Agroecology in Africa)

The Knowledge Centre for Organic Agriculture and Agroecology in Africa (KCOA) serves as a central platform for empowering African farmers and stakeholders with practical, accessible resources to support the transition to sustainable farming practices. Through a network of five regional knowledge hubs, it facilitates access to valuable information on organic and agroecological methods, fosters technical skill development, and connects users with a supportive community of professionals.

[Demonstration Plots Foster Organic Farming Innovation in Malawi](#)

[Baobab: A Tree That Transforms Lives](#)

**Do you want to unsubscribe from this newsletter? Do you have any questions? Please contact:**

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