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## PLANET

### Soil Health in Vietnam

Vietnamese soil requires compost for structural improvement. Last year, our Vietnam site started a compost program consisting of coffee waste, rice husks, and cow manure. The program produces **6,000 MT** of compost annually.



### Smart Water Use: Black Pepper

Our Vietnam site has taken many steps to conserve water and optimize water usage throughout all stages of operations:

#### Reservoirs - Water Conservation

- Stores rainwater runoff in small reservoirs for the summer months
- **10%** of the total volume of water flowing through the land parcel is used

#### Drip Irrigation - Precise Distribution of Water

- Small amounts of water and nutrients are applied directly to the roots
- **30-50% less** water usage

#### Precision AgTech



- Partnering with firms like **Phytech** for irrigation optimization, enabling precise distribution of water
- Monitors soil moisture and volume of water drip irrigated
- Minimizes the quantity of water needed

#### Cover Crop

- Plant Arachis pintol - a crop that conserves moisture in the soil



# PEOPLE

## Black Pepper Plantation - Chu Puh District

Olam has established a world-class **black pepper plantation** in the heart of the Chu Puh District in the Gia Lai Province of Vietnam. This is a very rural area which is home to a number of traditionally underserved minority communities. Employment opportunities are offered to local minority women. The work provides these women with a steady income and training in good agricultural practices and environmental stewardship.



## Innovation & Quality (IQ) System

Located at our Loteco Plant in southern Vietnam, our IQ center is equipped with a world-class Quality Assurance lab run by a strong team of women who test all our products to ensure they meet the most stringent food safety regulations.

**The IQ center is an all-inclusive establishment comprised of:**

- Physical laboratory
- Chemical laboratory
- Microbiological laboratory
- New Product Development (NPD) center
- Online quality checking



# COMMUNITY

## Clean Pepper Project

In 2017, Olam Spices initiated the **Clean Pepper Project** to enhance farmer livelihoods, reduce environmental impacts, and improve the quality of black pepper we source in Vietnam. The project provides comprehensive training including Good Agricultural Practices and Integrated Pesticide Management to **100 smallholder farmers**.

### Project Results:

- Reduced input and labor costs for farmers through trainings
- Produced **100% traceable black pepper**
- Quantifiable reduction in greenhouse gas emissions, water usage and protected soil health due to a reduction in fertilizer applications
- Trained **100% of farmers in health and safety**
- Provided financial investments to ensure that farmers and their families have access to healthcare, water and sanitation infrastructure



**By 2021, Olam Spices will produce more than 500 MT of black pepper that meet European Union Pesticide Maximum Residual Levels. We are partnering with local black pepper Associations to scale the project and understand local challenges.**