ProPAS

Commodities

Banana/Plantain

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International Institute of

Technology originally documented by

Sustainable Development Goals

Tropical Agriculture (IITA) Patchimaporn Udomkun

Banana Ripening Induced Ripening of Banana for Increased Marketability and Storage

Ripening Solutions for Quality and Efficiency

The Induced Ripening of Banana for Increased Marketability and Storage technology is a method designed to enhance the ripening process of bananas, specifically dessert bananas, to ensure they are market-ready and have an extended shelf life. In this process, bananas are artificially ripened using various chemical agents, most notably ethylene gas.



Industrial ripening chamber with refrigeration and gas control (Credit: Nilkamal)

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✓ This technology is <u>TAAT1 validated</u> .	Scaling readiness: idea maturity 8/9; level of use 8/9
Gender assessment	Climate impact
Problem	Solution
Bananas, especially plantains, suffer significant	 Artificial ripening with ethylene gas ensures that
post-harvest losses due to transportation damage	bananas are ready for the market, reducing the
and spoilage.	risk of post-harvest losses.
 Traditional ripening methods, such as wrapping 	 The technology allows for the acceleration or
banana bunches with green leaves, are time-	slowing down of the ripening process based on
consuming and result in non-uniform ripening.	market demand, optimizing the supply chain.
Consumers prefer ready-to-eat bananas, and fruit	 The technology meets consumer demand for
sellers need a consistent supply of ripe fruit to	ready-to-eat bananas, benefiting both fruit growers
meet this demand.	and sellers.

Key points to design your project

The technology of induced ripening offers cost-effective solutions for enhancing the marketability and storage of bananas, empowering farmers and aiding in poverty alleviation. Steps to integrate this technology include:

- Conducting market assessments, developing a business plan,
- Allocating resources for training and support,
- · Collaborating with agricultural institutions.





Trademark





Target groups Farmers, Sellers



Banana Ripening

https://e-catalogs.taat-africa.org/gov/technologies/banana-ripening-induced-ripening-of-banana-

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