ProPAS

Commodities

Banana/Plantain

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Sustainable Development Goals

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## **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	<ul> <li>Artificial ripening with ethylene gas ensures that</li> </ul>
post-harvest losses due to transportation damage	bananas are ready for the market, reducing the
and spoilage.	risk of post-harvest losses.
<ul> <li>Traditional ripening methods, such as wrapping</li> </ul>	<ul> <li>The technology allows for the acceleration or</li> </ul>
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	<ul> <li>The technology meets consumer demand for</li> </ul>
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.





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Target groups Farmers, Sellers



## Banana Ripening

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

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