

RESEARCH AND DEVELOPMENT FUND PROJECT SPOTLIGHT

NADJI.BI SÉNÉGAL

CONNECTED COMMUNITY SOLAR PLATFORM FOR MILLET TRANSFORMATION

A connected solar platform with software to ensure a sustainable business model for millet flour production.

After the production of millet, the flour production process goes through two stages, dehulling and grinding, which are labour-intensive for women and girls in rural areas.

The process involves removing the outer shells of the grains and then grinding them with large mortars and pestles to produce flour. This manual work is painful, time-consuming and can trigger muscular, skin and respiratory diseases. Other methods of flour production for off-grid areas involve diesel-powered machinery, which has negative environmental and health impacts. Diesel-powered machinery can also taint the flour.

Nadji.Bi Sénégal aims to develop a solar solution for millet flour production, which will be connected and managed by a smart software applications platform. This will enable a pain and pollution-free flour processing solution, which can improve quality of life for women and girls. It will also help farmers earn more income, as the solution will help them to increase the value of their millet flour due to the improved production process.

The platform will enable the digital management of customer flow and payment, as well as the production and collection of technical data to monitor the performance of the milling. Nadji.Bi Sénégal will develop the platform with groups of rural women to ensure the service is affordable and addresses their needs. The platform will be offered as an investment to communities of women through microfinance institutions and rural banks, which can help scale up the solution.



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AT A GLANCE

R&D Awardee
Nadji.Bi Sénégal

**Efficiency for Access
Funding**
£152,299

**R&D Funding Unlocked
from Nadji.Bi Sénégal**
£74,842

Project Location
Senegal