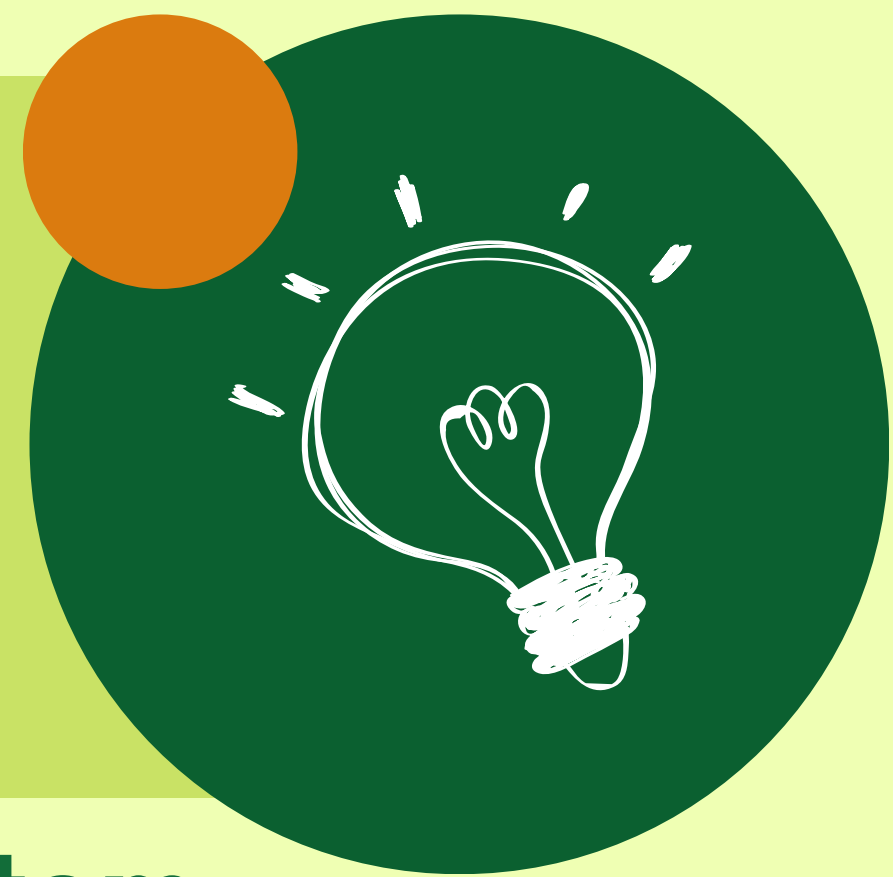


SEMENCES CERTIFIÉES

Modernisation of the Seed Certification Process in Mali

In Mali, the introduction of high-yield laboratory-developed seeds has boosted agricultural productivity. However, trading in these seeds requires certification to ensure the purity of the seeds – a time-consuming process that additionally faces challenges posed by Mali's unreliable mail system. Furthermore, the susceptibility of paper certificates to counterfeiting threatens trust in Mali's seed industry. Our ICT solution helps to mitigate some of these problems by providing farmers with status updates of their certification at all times.



Interactive Voice System

Our developed interactive voice system allows farmers to call and receive updates on their certification process. Once registered, the system automatically recognizes the farmer's number and preferred language. A menu is then provided, enabling the farmer to easily obtain updates on their certification process. It furthermore provides farmers with information on the process and includes a FAQ for when they face problems with the application.

Try it out! Call +31203697664 with pin code 889117

Web-Based Interface

A web interface provides farmers with the same functionality, and allows them to share their certificates with others. Lab operators can use it to access, modify, add, or remove certifications. Please visit <https://semencescertifiees.elch.cc/>



Ethical Concerns

Fraudulent activities and counterfeit certificates pose risks in the digital system. Affordability of resources may widen the gap between rich and poor farmers, and reliance on external fertilizers and pesticides drains funds from Africa. To address these concerns, implementing security measures and supporting poorer farmers through subsidies or training programs is crucial for responsible and sustainable deployment of the ICT service.



Example Web-Based Interface



SemencesCertifiées
Modernisation du Processus de Certification des
Semences au Mali

SemencesCertifiées - Laboratory Login

Username:

Password:

Login

Impressum

Farmer's Login

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Certification overview					
Logged in as: 081273912321					
Species	Campaign	Accepted	Creation date	Action	
Millet	2019-2020	2023-05-01T10:24:54.000Z	Rejected	[SEE]	
Millet	2019-2020	2023-05-01T10:42:29.000Z	Rejected	[SEE]	

Certification Overview					
Logged in as: 881					
<div>Filter by phone number: <input type="text"/> Search</div>					
Phone	Species	Campaign	Creation Date	Action	
081273912321	Millet	2019-2020	2023-05-01T10:24:54.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:42:29.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:42:30.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:44:48.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:44:56.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:45:03.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:45:12.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:45:17.000Z	VIEW	EDIT DELETE
081273912321	Millet	2019-2020	2023-05-01T10:45:39.000Z	VIEW	EDIT DELETE
31641635077	ZZ	2019-2020	2023-05-14T08:02:07.000Z	VIEW	EDIT DELETE
72373628	millet	2019-2020	2023-05-16T08:58:03.000Z	VIEW	EDIT DELETE
+915702804889	Millet	2022-2023	2023-05-16T14:49:53.000Z	VIEW	EDIT DELETE
<div>ADD NEW CERTIFICATE</div>					