

April 2026

ADVANCING FIELDWORK AROUND THE WORLD

ON-DEMAND SOLUTION

Enabling companies to analyse materials anywhere within seconds.

- ✓ Delivered as a single, unified system
- ✓ Combining hardware, software, and analytical models



	22.4%
	Protein
Error +/- 0.3%	
Fat: 20.7% ± 3.0%	
Fiber: 11.4% ± 0.3%	
Minerals: 3.2% ± 0.5%	
Moisture: 10.5% ± 0.1%	

Measured Samples	Purity
#2	Fat: 20.7% ± 3.0%
Your material	Fiber: 11.4% ± 0.3%
	Minerals: 3.2% ± 0.5%
	Moisture: 10.5% ± 0.1%

Our Customers & Partners

In 59 countries

**One analysis
every 15 seconds**

Testing Materials and Substances on the spot globally!

What You Get with NIRLAB

A complete solution for fast, safe, and reliable analysis in the field.



NIRLAB SOLUTION

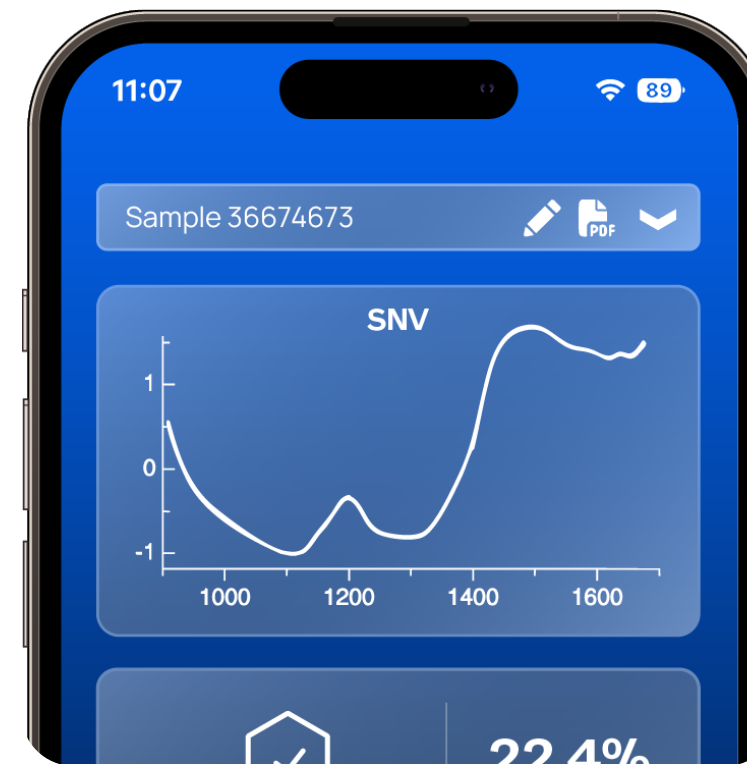
One Integrated System



HARDWARE

Measurement Layer

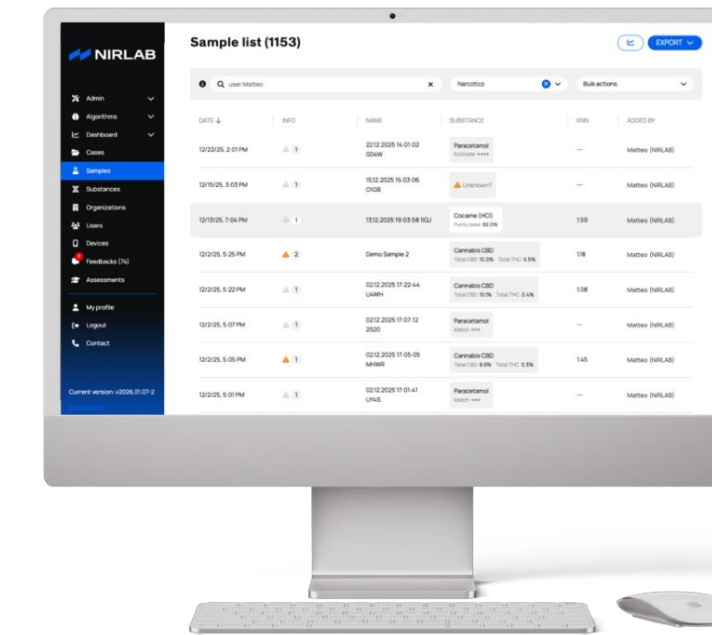
Captures spectral data in the field.



MOBILE APP

Application Layer

Guided scans, instant results on your phone.



WEBPORTAL

Management Layer

Centralized control of data and permissions.

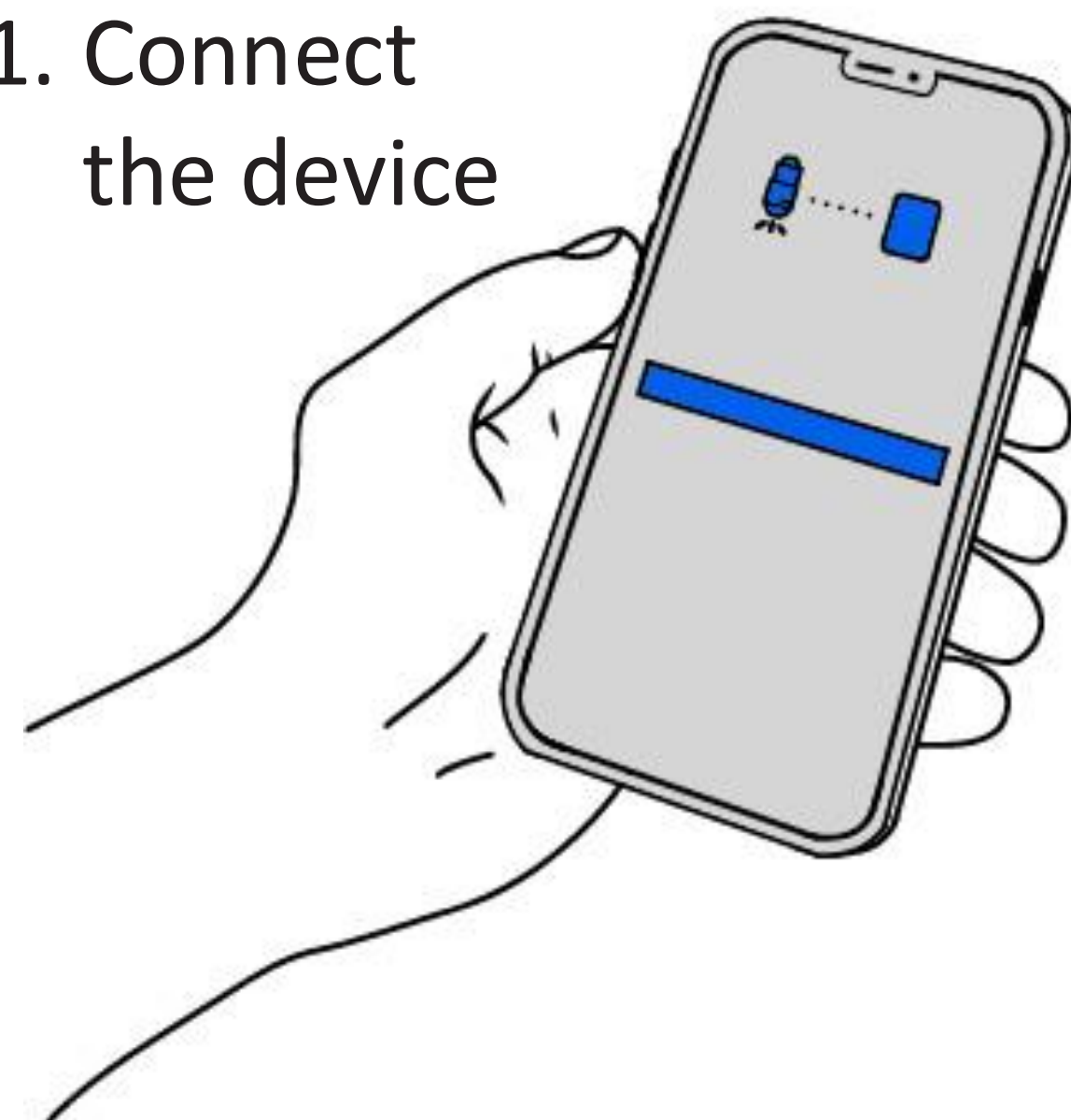
One **unified system** for measurement, analytics, and operations.

Note: NIRLAB is delivered as a complete package, not standalone components.

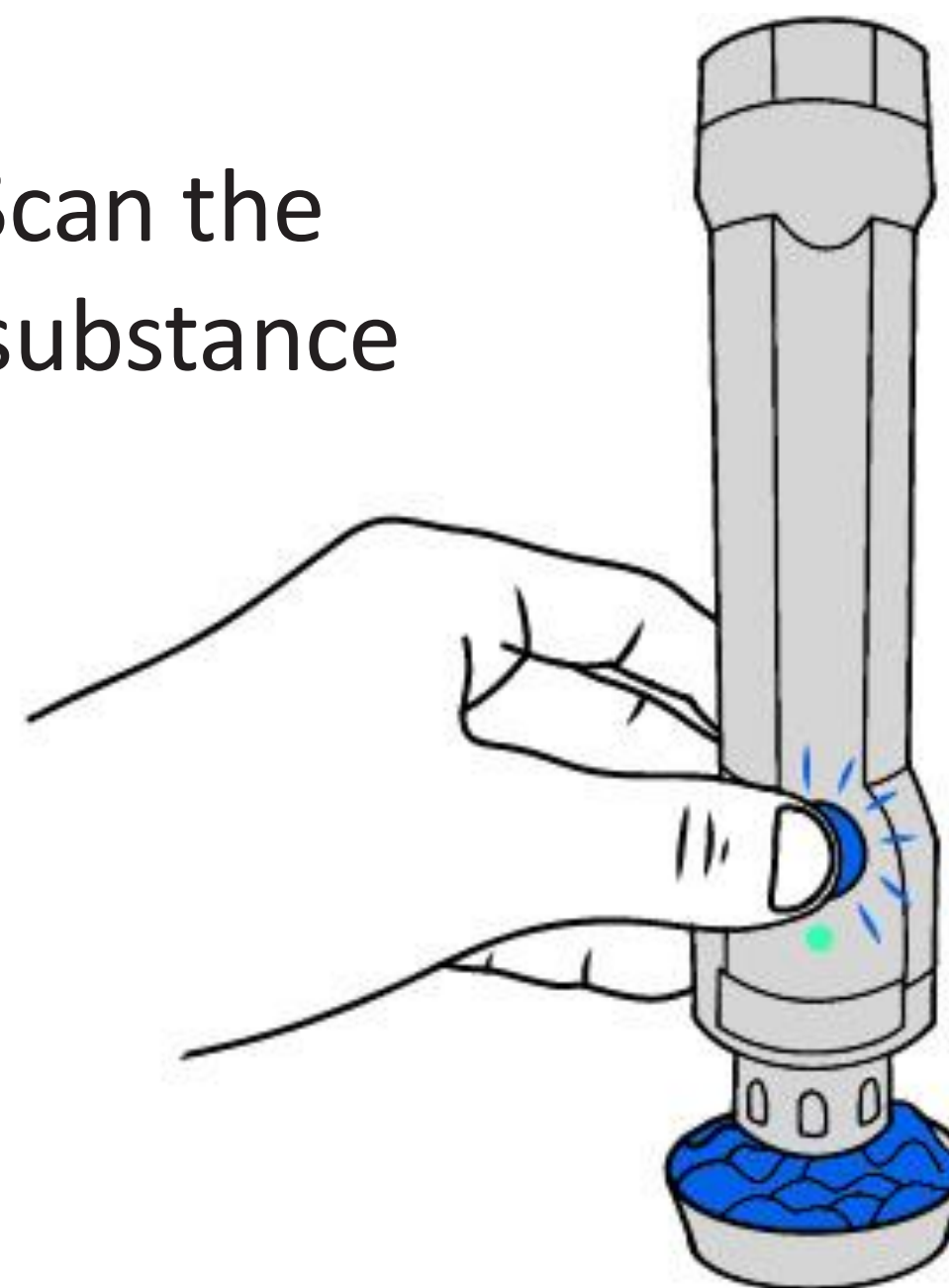
SIMPLICITY OF USE

3 Steps to Reliable Results

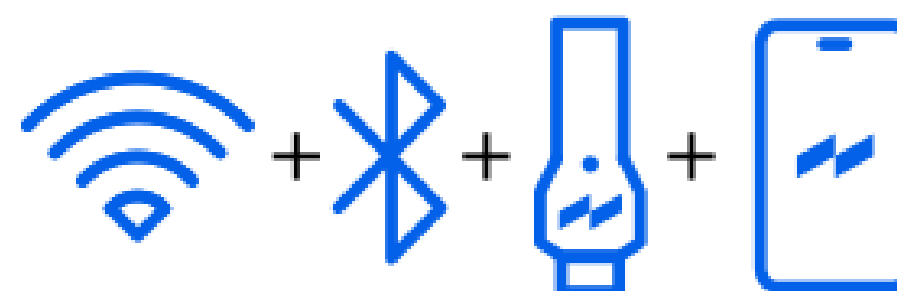
1. Connect
the device



2. Scan the
substance



3. Read the
result



Available on the
App Store

GET IT ON
Google Play

ANALYTICAL CAPABILITIES

Type of Analysis Supported

- **Measurement of defined parameters**
for example, Protein, Fat, NPK, Organic Matter, etc
- **Identification and authentication of material types**
for example, Polymers, Food Supplements, etc
- **Simultaneous measurement of multiple components**
for example, Moisture, Fat, Protein, Fibre, Sugar



ANALYTICAL CAPABILITIES

NIRLAB Web App

Desktop and browser-accessible platform for data management.



Report history

Centralized tracking and comparison of scans.



Simple data management

Modify or clean up analysis records.



Export of data

Easily export data to Excel.



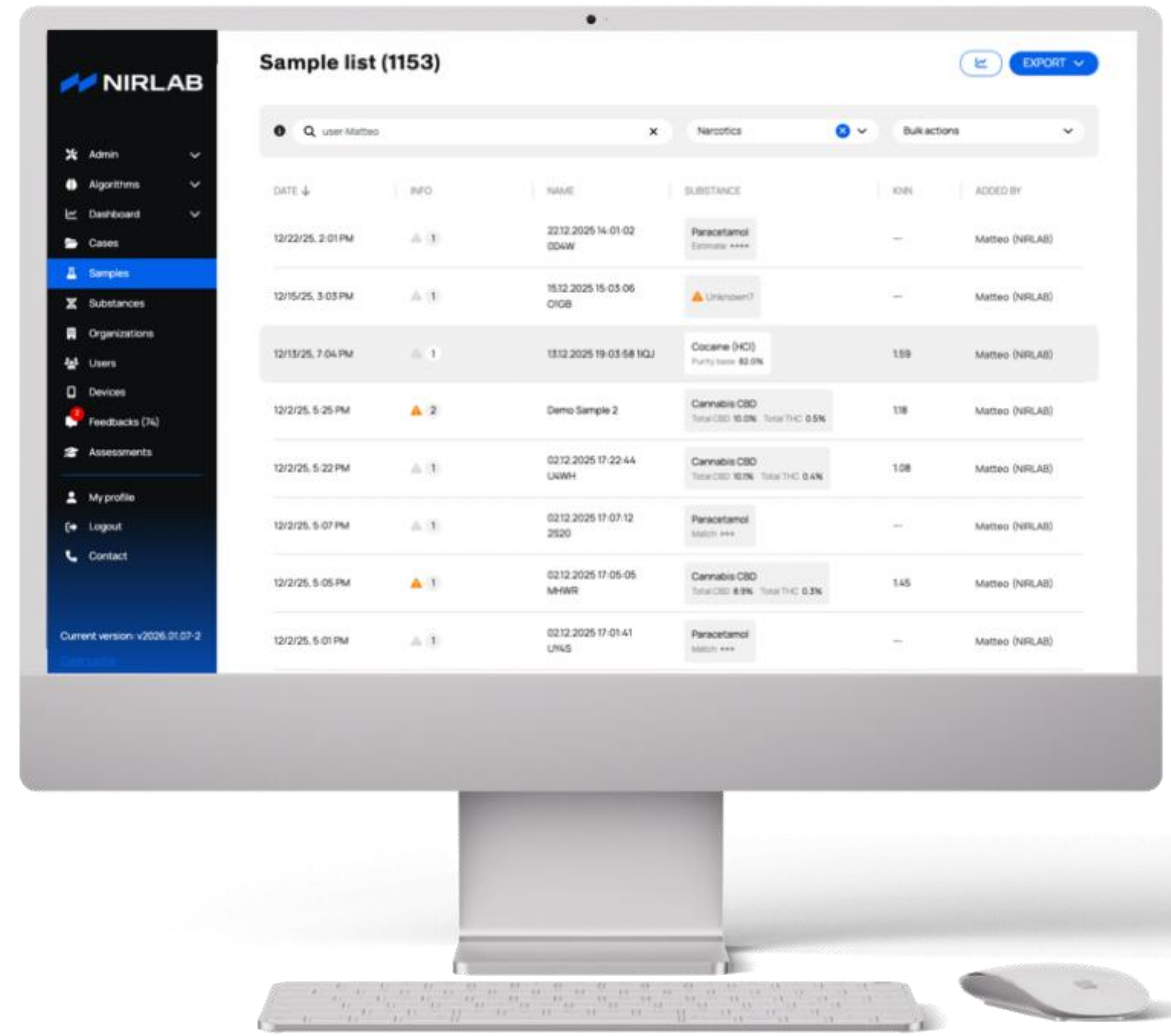
Save as PDF

Generate downloadable reports.



User Management

Admin tools for organizations and users.



INDUSTRIES

We Deliver **Instant Analysis** across Industries

Our solution is suitable for industries where instant material analysis is required.



STANDARD APPLICATIONS

Ready-to-Use Solutions



Polymers



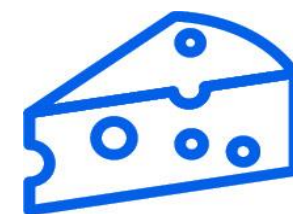
Rapid identification and classification of plastic types for recycling and QC.

Beef, Pork and Poultry Meat



Composition analysis for fat, protein, moisture and salt content in real-time.

Dairy



Quality assessment of cheese and composition monitoring during production and aging.

Olive



Quality parameters and authenticity verification for olives and oils.

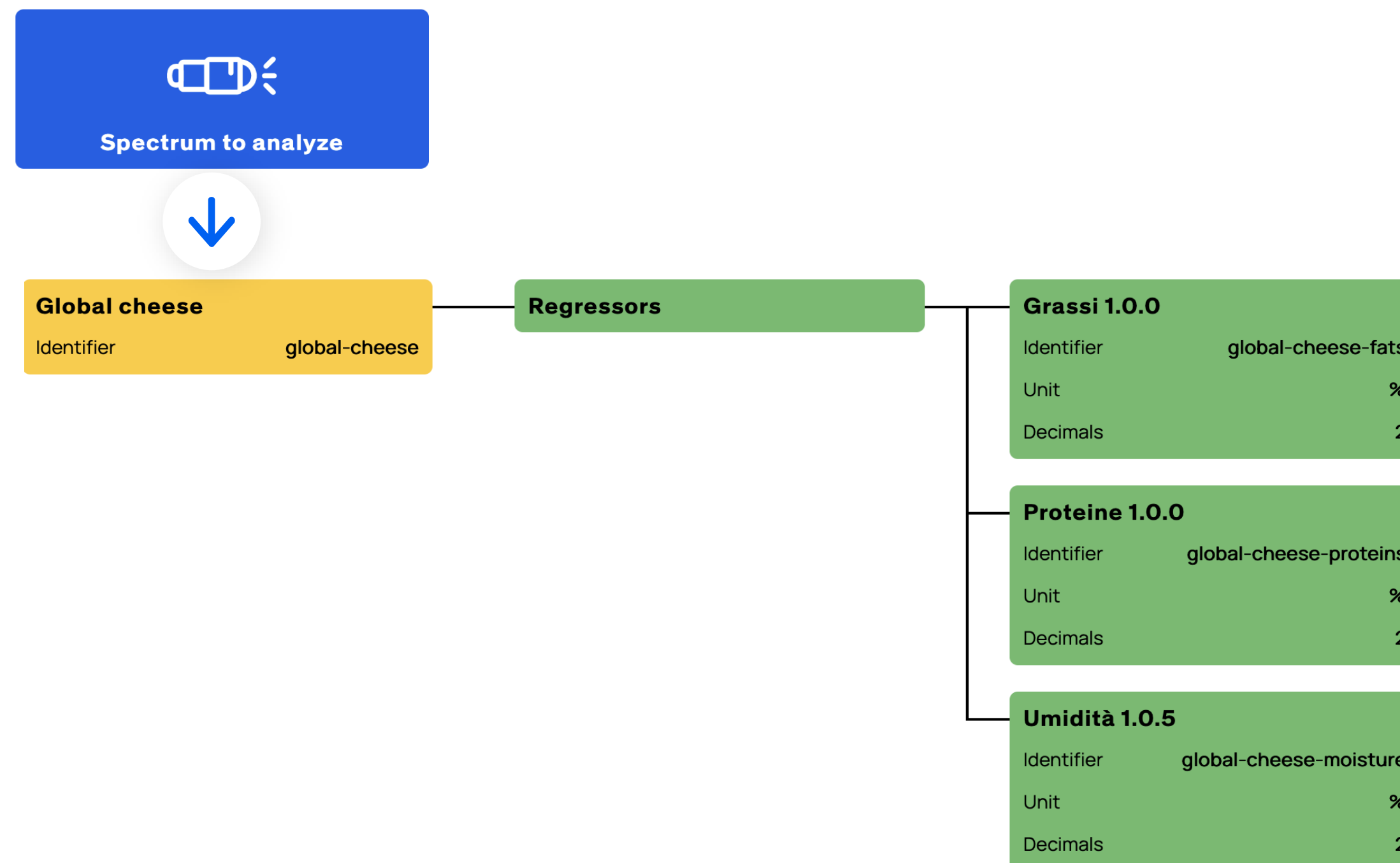


These applications are delivered within the integrated NIRLAB system and require **no additional development time**.

MODEL OWNERSHIP

Customer-Specific Models

Our approach to model development prioritizes data sovereignty and performance specificity. We treat each customer's analytical needs as a unique environment.



Dedicated Development

Calibration models are developed specifically per customer and per application.



Exclusive Ownership

Customers retain full ownership of their models within the NIRLAB system.
Your data – your insights!



No Cross-Pollination

Models and reference data are never reused, shared or “anonymized” for use with other clients.

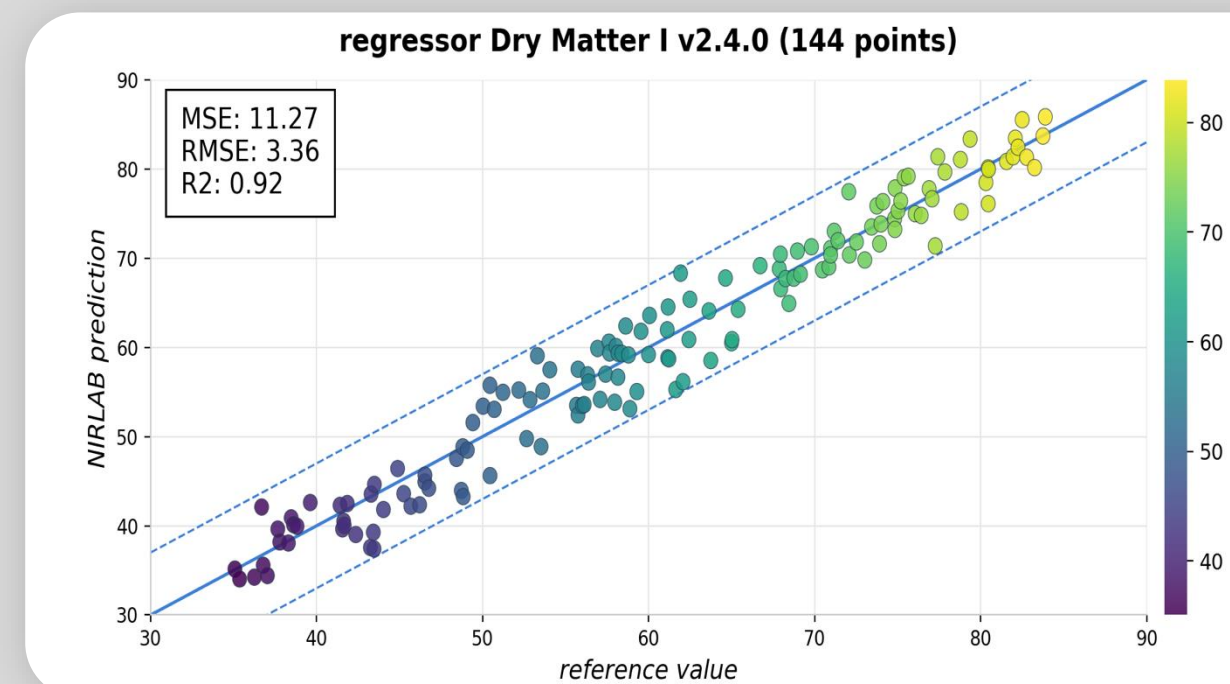
CALIBRATION MODEL DEVELOPMENT

Adding Your Own Material



Reference Samples

Models are built using customer-specific reference samples to ensure the spectral data matches the exact material properties.



Calibration & Validation

Spectral data is correlated against certified lab results provided by customer to create robust algorithms, which are then validated for accuracy.



System Deployment

Validated models are deployed directly to the customer's specific NIRLAB system instantly, ready for field use.

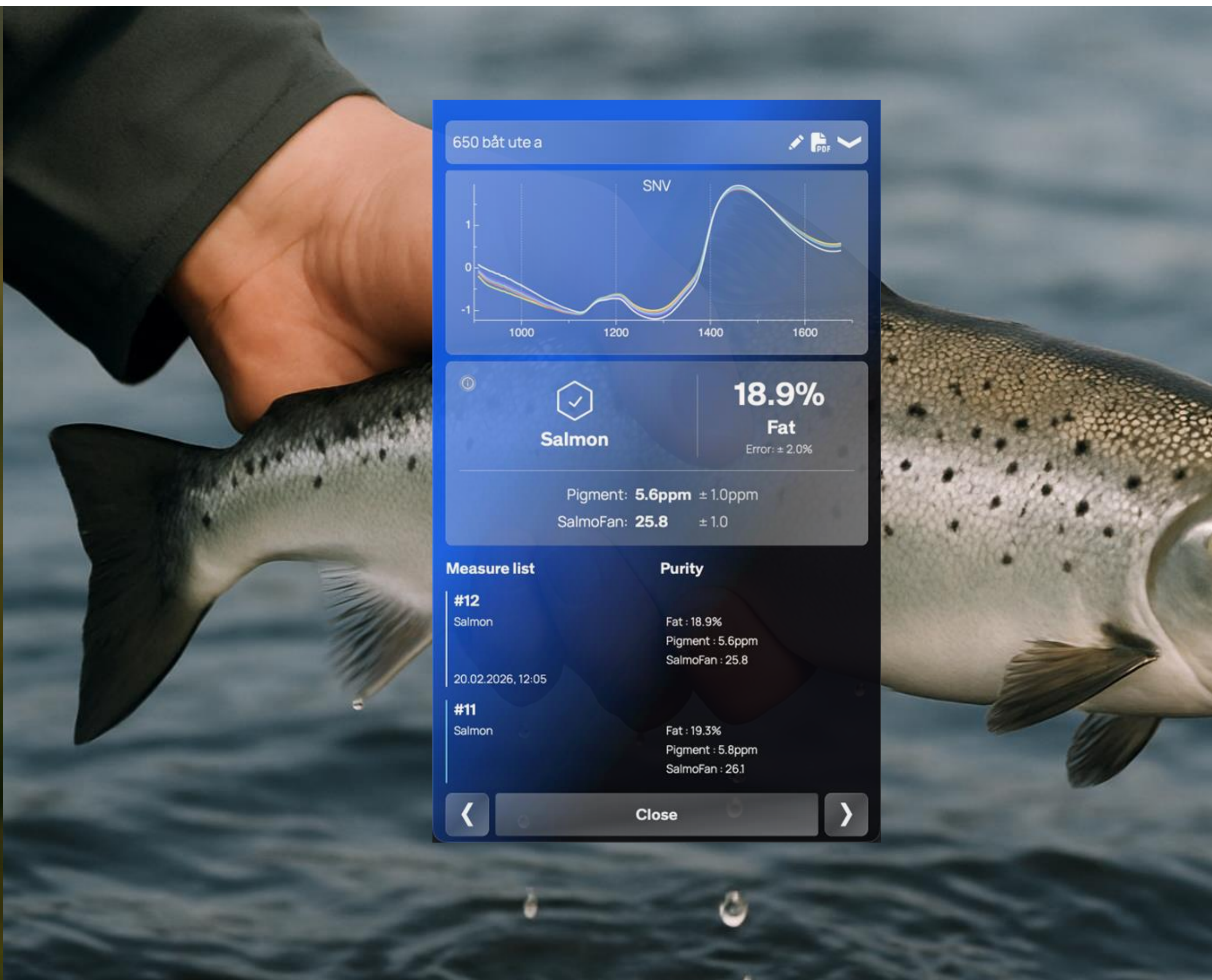
USE CASES

Agriculture



USE CASES

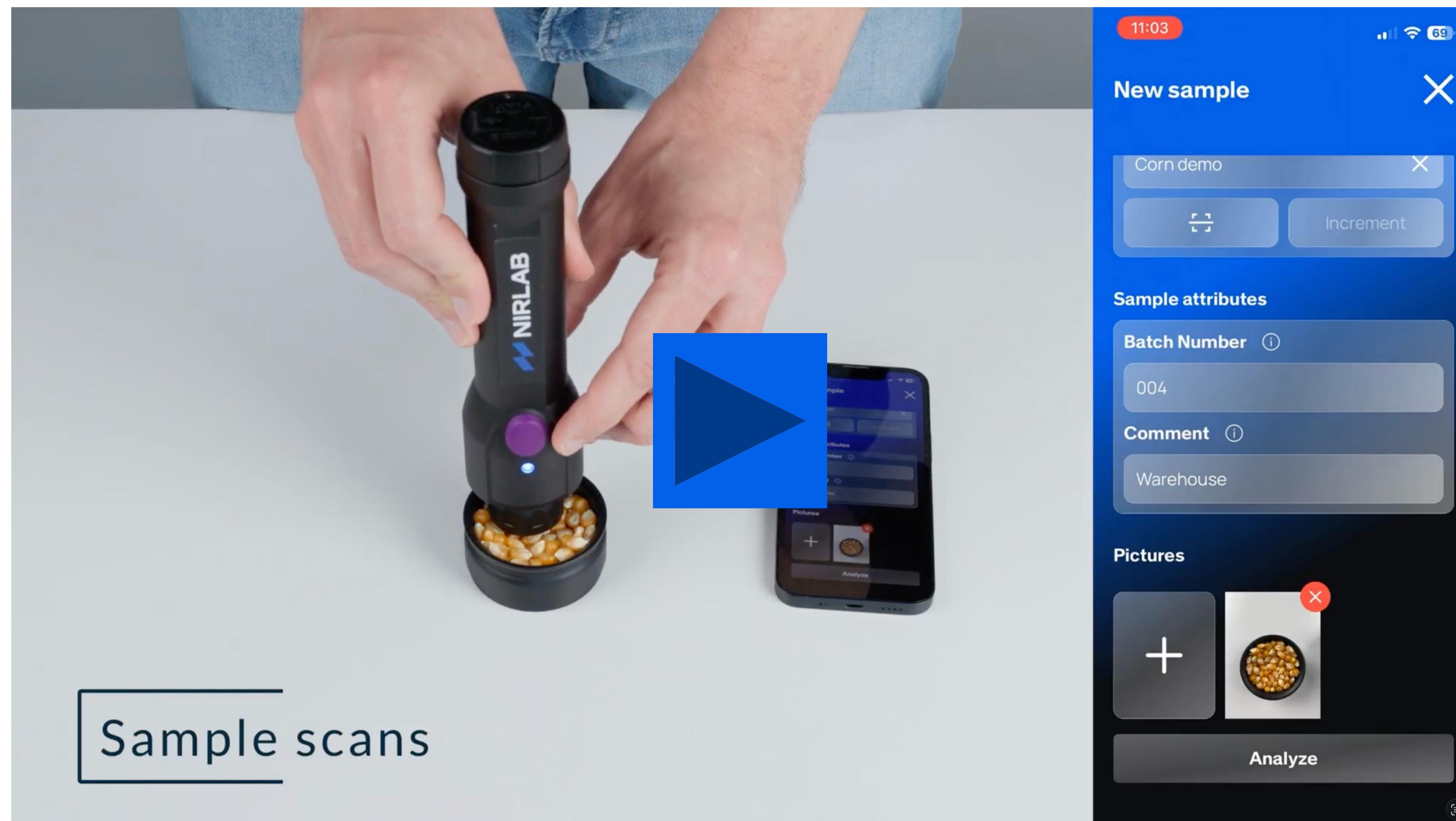
Food



DEMO

Product Demo

Watch the 90-second walkthrough:



<https://www.youtube.com/watch?v=eMlzH3ltd14>

**READY TO GET
STARTED?**

Contact Our Team

contact@nirlab.com
www.nirlab.com

Headquartered in Switzerland
Serving Clients Globally

YOUR SOLUTION

1

Scope Definition

Define specific, application requirements, target materials and parameters.

FEASIBILITY

2

Project Execution

Build and validate calibration models, then integrate hardware and software.

BUILDING



Deployment

System delivery, user training and go-live support for your team.

GO-LIVE