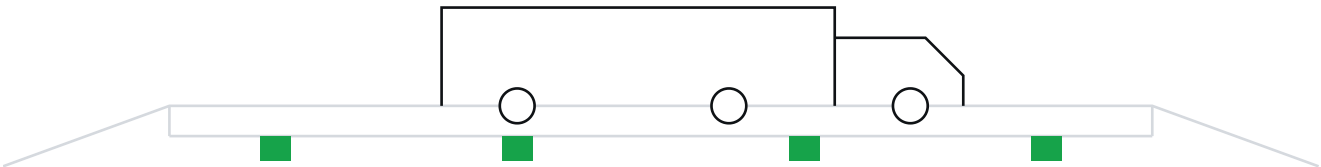
Kilo Sahihi

PRODUCT BROCHURE

Every load weighed, proven and accounted for

Weighbridge, packhouse and warehouse weighing in one system: **from the indicator to the ERP and the management dashboard**, on one bridge or across many sites.



WEIGHBRIDGE · PACKHOUSE · WAREHOUSE — ONE SYSTEM, EVERY SITE

14
industry profiles in one product

12
indicator protocols, read directly over the network or serial

6
ERP integrations, plus any system with a REST interface

24/7
keeps weighing when the internet is down

01 · OVERVIEW

One system from the scale to the boardroom

Kilo Sahihi takes every weight straight from the indicator, keeps the evidence with it, and carries it to the warehouse, the ERP and the head-office dashboard. A site can start with one attended bridge and add cameras, lane control and more stations later, on the same software and the same records.

1
record and one ticket per truck, in and out

3
automation stages, attended to unattended

7
fraud rules checking every weighing

0
tickets lost to a network or power cut

What the operation gets

- **Weights that stand up to audit.** Captured only on a stable reading, with photos of the truck at both weighings and a full audit trail.
- **Faster, simpler operators.** A returning truck is recognised by its plate and its details recalled, so the operator confirms instead of retyping.
- **No re-keying.** Completed weighings post to Sage X3, Odoo, ERPNext, Microsoft Dynamics 365 and other systems.
- **Live oversight.** Every station and site on one dashboard, on a phone or a PC.
- **Fraud surfaced, not just logged.** Each weighing is compared with that truck's and that operator's own history.

How it is built

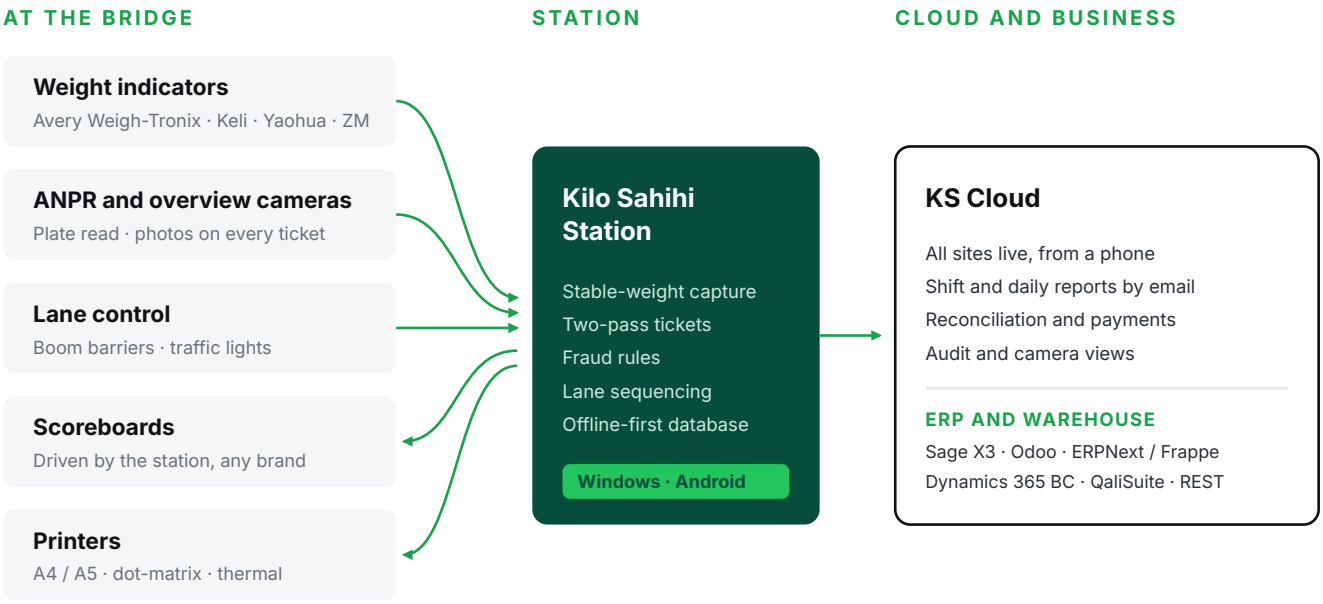
- **Offline first.** Each station keeps its own database and keeps weighing through network outages. Records sync in order when the link returns.
- **Desktop and mobile.** Windows stations for the weighbridge office, and an Android app for mobile and field weighing.
- **One product for every industry.** Each site is set to its industry profile, so operators see their own trade's fields and nothing else.
- **Built for the region.** East African axle limits, local payment practice and the indicators installed across the region.
- **Supported locally** by the team that builds it.

Designed for the person at the bridge. Large live weight, one clear action at each step, and nothing on screen that the operator does not need. Sites go live with little training, and data-entry mistakes fall.

02 · PLATFORM

Every bridge, every device, one record

Each weighbridge runs a Kilo Sahihi station that talks directly to the indicator, cameras, lane hardware and scoreboards. Stations work on their own and keep weighing offline. KS Cloud joins every site into one live view and one integration point.



Stations connect over TCP/IP, UDP, RS-232 or Bluetooth. Each keeps a full local database and syncs when the network allows.

ALL BRIDGES

Any number, any mix

Single-deck, multi-deck and axle weighers on one system, at one site or many. Every ticket shows the scale that weighed it.

OFFLINE FIRST

Never stops weighing

An outage does not stop the bridge. Records queue on the station and sync in order when the connection returns. Nothing is lost or posted twice.

DESKTOP AND MOBILE

Office or field

Windows stations on PostgreSQL for multi-PC sites, and an Android app with Bluetooth or network scales for mobile weighing.

03 · WEIGHING

Quick at the bridge, exact on the ticket

Every weighing follows the same simple path: identify the truck, capture a stable weight, print. The system does the matching, the arithmetic and the checks, so the operator does not have to.

CAPABILITY	HOW IT WORKS
Two-pass weighing	A truck weighed in and out becomes one record and one ticket. Net weight is calculated from the heavier and lighter pass automatically.
Stored tares	Known vehicles can be weighed once against a recorded tare. Each new tare is compared with the truck's own history.
Multi-deck and axle	Deck-by-deck readings on multi-platform bridges, and per-axle weighing compared with the legal limits for the vehicle class.
Several products, one truck	A truck carrying two products is weighed product by product and priced line by line on one ticket.
Operator assist	A returning plate recalls the truck's driver, customer, product and tare. The operator confirms instead of retyping.
Fast capture	For busy sites: plate and product only at the bridge, with the rest completed when convenient.
Stable-weight capture	A weight is taken only once the indicator is steady, and readings that do not match the scale's division are rejected.

Tickets

- PDF in A4 and A5, with the truck's photos and the company logo.
- Dot-matrix output for impact printers, and 58 mm and 80 mm thermal receipts.
- Original and copy marking, multiple copies, and per-site layouts.
- Optional prices and amounts, chosen at the moment of printing.

Scale connection

- Avery Weigh-Tronix (SMA, ZM series), Keli, Yaohua XK3190, D2008 family and any indicator with a configurable output.
- TCP/IP, UDP, RS-232 serial and Bluetooth.
- The last raw indicator readings open with one tap, so faults are found over the phone, not on a site visit.

04 · PACKHOUSE AND WAREHOUSE

Every delivery, batch by batch, into the warehouse records

A delivery to a packhouse or warehouse rarely fits on one weighing. Kilo Sahihi weighs it batch by batch, works out each batch's tare from what is on the scale, and closes the delivery as one record that the warehouse and ERP can trust.



Every batch is saved the moment it is weighed. A delivery left open survives a restart or power cut and is resumed where it stopped.

At the packhouse

- **Container types** with their own empty weights, for crates, bins, bags and pallets.
- **Batch by batch:** the number of batches does not need to be known in advance.
- **Several deliveries open at once,** listed and resumed with one tap while trucks queue.
- **Grower, lot and quality fields** where the industry profile calls for them, such as coffee grower, outturn and bags.

Into the warehouse systems

- **One posting per delivery,** not one per batch, so the receipt in the ERP matches the paperwork.
- **Master data flows back:** suppliers, customers, products and orders come from the ERP to the station.
- **Queued and retried:** an ERP that is busy or offline never loses or doubles a receipt.
- **The same delivery live in KS Cloud,** with the batch breakdown, for the office and management.

Works alongside your own systems. Kilo Sahihi can be the weighing layer that feeds an existing warehouse or ERP system. It does not ask the operation to replace what already works.

05 · AUTOMATION PATH

From attended to unattended, without changing software

Automation is a series of hardware additions, not a new system. Each stage is a complete working weighbridge, and each lane moves up when the site is ready. Tickets, history and reports stay the same throughout.

STAGE 1

Attended

An operator runs the bridge from the Kilo Sahihi station.

- Indicator, station PC and ticket printer
- Capture only on a stable reading
- Two-pass weighing and stored tares
- Customer, product and price lists
- Printed or emailed tickets

STAGE 2

Semi-attended

Cameras and lane control take over the repetitive steps.

- ANPR reads and fills in the plate
- Overview photos on every ticket
- Boom barriers and traffic lights
- Arrival alerts to the operator
- One operator for several lanes

STAGE 3

Unattended

The driver completes the transaction at the lane.

- Driver identified at a lane terminal
- Plate checked against the open ticket
- Weight taken when stable, barrier sequenced
- Ticket issued at the lane
- Supervised remotely

Why it matters

Few sites automate everything at once. Kilo Sahihi lets the first installation cover a manned bridge and fixes the upgrade path from the start: no second software purchase, no data migration and no retraining when a lane is automated.

Stage 3 is delivered as a project for each site, matched to its lanes, traffic and security requirements.

Safeguards at every stage

- Capture is held until the indicator reports a stable weight.
- The plate and tare on a ticket can be checked against the truck the camera sees on the bridge.
- A load photo can be required before a ticket is completed.
- Manual weight entry can be locked off by licence.
- The weight is watched after capture, and a drift is flagged.

Same software, same records. A ticket from an automated lane looks and reports exactly like one taken by an operator.

06 · CONTROL AND EVIDENCE

Fraud is surfaced, not just logged

An audit log shows what changed after the fact. Kilo Sahihi also checks each weighing against the history of that vehicle, that operator and that site, and puts suspect transactions in a review list ordered by how far they stray.

RULE	WHAT IT CATCHES
Tare deviation	A truck's empty weight differs from its own recorded tares: the sign of water, fuel or ballast carried in, or a part-loaded tare.
Net deviation	A load far outside what that vehicle and product normally carry.
Same-day repeat	The same vehicle weighed again the same day in a pattern that suggests a recycled ticket.
Time between weighings	First and second weights too close together for a real load or offload, or too far apart.
After hours	Transactions outside the site's working hours.
Plate mismatch	The plate read by the camera differs from the plate on the ticket.
Operator void rate	An operator cancelling tickets well above the site norm.

Evidence on every ticket

- **Overview photos** of the truck at the first and second weighing, time-stamped and stored with the ticket.
- **ANPR** reads the plate on arrival, fills it in, and keeps the plate image as evidence.
- **Camera health** is shown live, so a camera that stops is noticed the same shift.

Records that cannot be quietly changed

- **Ticket numbers without gaps,** so a missing ticket cannot hide.
- **Voids need a reason,** recorded with who and when, and visible to head office.
- **A full audit trail** of user actions and settings changes, with before and after values.
- **Rules chosen per site:** administrators switch each rule on and set its threshold.

07 · MONITORING, REPORTING AND INTEGRATION

See every site live. The ticket posts itself.

KS Cloud brings every station into one view, on a phone or a PC. Completed weighings flow to the ERP without re-keying, and master data flows back to the bridge.

Real-time monitoring

- **Live dashboard** per station and across sites: today's tonnage, trucks on site, open tickets and exceptions.
- **Camera and audit views,** with the photos behind every ticket.
- **Shift reports and daily summaries** emailed automatically at a set time.
- **Alerts to administrators** when a station, camera or integration needs attention.

Reporting

- **PDF and Excel reports** by period, site, customer, product and vehicle, with priced and unpriced views.
- **Reconciliation:** first against second weights, open transactions, and documents against weights.
- **Payments:** M-Pesa and account customers reconciled against tickets.
- Large reports are produced in the background and cover the full filtered set.

ERP	INTEGRATION
Sage X3	Weighing events posted through the Sage X3 REST interface.
Odoo	Native connector, with partners synchronised from Odoo to the bridge.
ERPNext / Frappe	Native connector, including custom Frappe applications, with master-data sync.
Microsoft Dynamics 365	Business Central integration, with a published integration guide.
QaliSuite	Native connector.
Any other system	REST webhook in a documented format, for SAP, warehouse systems and in-house software.

EVENTS

What is sent

First and second weights, completions and voids with their reasons, each with its scale and operator.

RELIABILITY

Exactly once

Every event has its own key. Failed deliveries retry automatically until they are accepted.

CONTROL

Visible to IT

Every delivery and response is logged, so the integration can be audited and replayed.

08 · MOBILE AND INDUSTRIES

The same system in the hand, configured for the trade

The Android app brings Kilo Sahihi to sites without a weighbridge office: buying centres, field collection points, platform scales and backup weighing.

CONNECT

Bluetooth or network scales

Pair with the indicator over Bluetooth, or reach it on the site network. The live weight fills the screen.

OFFLINE

Works without signal

Each weighing is stored on the device and synced to KS Cloud when a connection is available.

SAME RECORDS

One system

The same industry profiles, tickets and reports as the Windows stations, in the same KS Cloud.

Industry profiles

Each site runs the same Kilo Sahihi, set to its industry. Operators see their own trade's vocabulary and fields, without anyone else's clutter.

Quarries and aggregates · Cement and ready-mix · Coffee · Horticulture and packhouses · Produce lines · Edible oil processing · Manufacturing · Scrap metal and recycling · Logistics and container yards · Air cargo · Public and overload weighbridges

INDUSTRY	WHAT CHANGES FOR THE OPERATOR
Coffee	Grower, factory, outturn, bags and permit details on the delivery and ticket.
Horticulture and packhouses	Batch-by-batch deliveries with crate and pallet tares.
Quarries and aggregates	Fast capture for queues, several products on one truck, prices on the ticket.
Logistics and container yards	Container number, size, seal, shipping line and VGM on the ticket.
Air cargo	Air waybills, volumetric and chargeable weight, sealed records and emailed dockets.
Public weighbridges	Overload checks against the axle limits of the vehicle class.

09 · DELIVERY AND SUPPORT

Installed, trained and supported

A rollout covers the bridge, the people and the systems around them. Operator training is part of every installation, because it is what keeps data clean after go-live.

STEP	WHAT HAPPENS
Survey	Bridge, indicator, network and lane layout reviewed on site, and the automation stages agreed.
Install	Station, cameras and lane hardware commissioned, and indicators configured for a direct connection.
Integrate	The ERP or warehouse connection configured and tested against a test company before go-live.
Train	Operators, supervisors and administrators trained on site, with certificates of completion.
Hand over	Configuration record, user guides and operating procedures for the site.

Support

- **Remote diagnosis.** Raw indicator data, camera status and sync health are visible to support, so most faults are cleared without a visit.
- **Signed releases.** Installers are code-signed, and updates are issued through the licence.
- **Built-in backups** of the station database.
- **User guides** in English, Kiswahili and French.

Deployment options

Standalone	A single site with everything local: weighing, tickets, reports and offline operation.
Connected	Standalone plus KS Cloud: live dashboard, emailed reports, ERP integration and payments.
Multi-site	Many stations and sites in one KS Cloud, each with its own scales and users.

See it on your own operation. We will demonstrate Kilo Sahihi with your indicator, your industry fields and your ticket layout, and connect it to your ERP test environment.

Kilo Sahihi

CONTACT

Talk to the team that builds it

For a demonstration, a quotation or technical questions about your site, get in touch.

WEB

www.kilosahihi.com
Product information

EMAIL

support@kilosahihi.com
Demonstrations, quotations and support

01

Station

Windows weighbridge software, cameras, lane control and scoreboards.

02

Mobile

Android weighing with Bluetooth and network scales, online or offline.

03

KS Cloud

Live dashboard, reports, payments and ERP integration for every site.

04

Services

Installation, integration, training and ongoing support.