



Mill360

by Capslock

One Mill. Total Intelligence.

Cane intelligence. Connected mill decisions.



The decision we are asking for

One mill pilot

Sponsor a 90-day test of GIS Cane Intelligence with a nominated cane team and IT owner.

One shared record

Connect plot, harvest event, dispatch and weighbridge receipt through stable identifiers.

One measured outcome

Decide whether better field visibility improves planning enough to justify rollout.

Start with the field-to-weighbridge workflow. Expand on evidence.



Relevant context for Daurala

Corporate context

The supplied public page identifies DCM Shriram Industries Limited and Daurala Sugar Works.

Operational relevance

Its sugar, distillery and co-generation activities make connected cane, plant and energy decisions relevant.

Discovery boundary

Current ERP, interfaces, field processes, data quality and decision rights remain unverified.



A field can be harvested more than once

“Harvested” is too coarse a status for staged cutting.

Farmers described cutting portions of a field as the mill needs cane. They track the stages in handwritten, unindexed records.

The missing record: what was cut, when, and how much still stands.



The cost of losing the field history

Planning uncertainty

A registered plot does not reveal current standing area or readiness after a partial cut.

Repeated field calls

Schedulers may need fresh phone checks and notebook searches before each allocation.

Weak traceability

Field estimates, transport loads and mill receipts can diverge without a common event reference.



Mill360 product scope

Cane Intelligence

GIS registry, staged harvest ledger, mobile field evidence, scheduling and receipt reconciliation.

Plant + Energy

Production losses, downtime and maintenance context, with steam and power performance.

Finance + Green + IQ

Cost and settlement exceptions, resource evidence, and permission-aware management questions.

A proposed intelligence layer integrated with existing operational systems.



GIS Cane Intelligence: the registry

Farmer + plot

Stable farmer and plot IDs
Contact and village references
Farmer-to-plot relationships
Duplicate and tenure review

Field + season

Geotagged polygons
Area and boundary versions
Season, variety, planting date
Plant cane or ratoon cycle

Readiness + quality

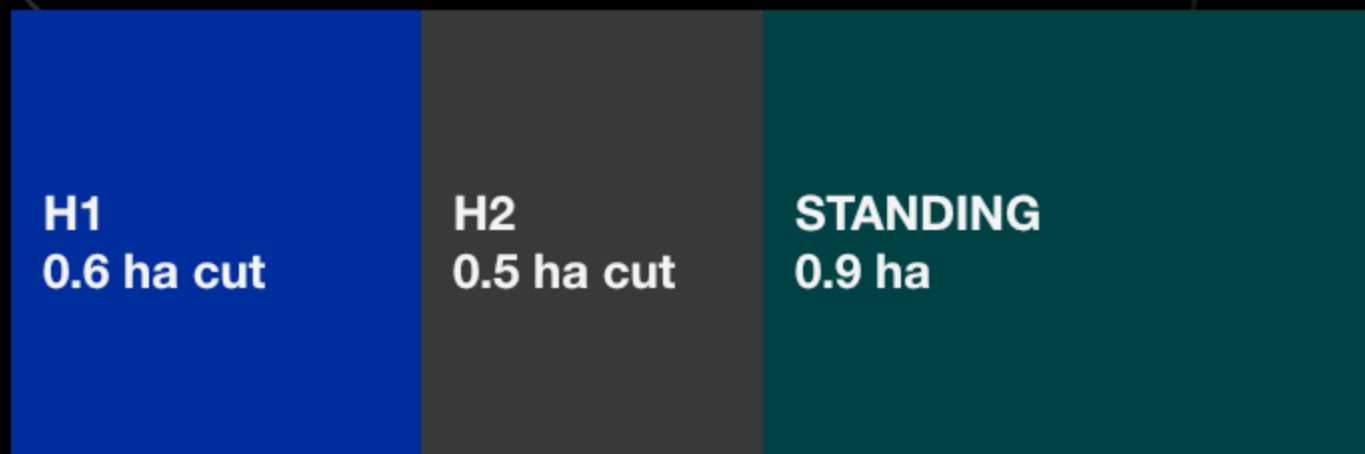
Maturity observations
Yield estimate and range
Expected harvest window
Source, date and confidence

Every observation belongs to a plot, season and responsible user.



One plot. Three harvest stages.

PLOT P-104 / 2.0 ha



Boundary version 1
Season S-27
Farmer F-021

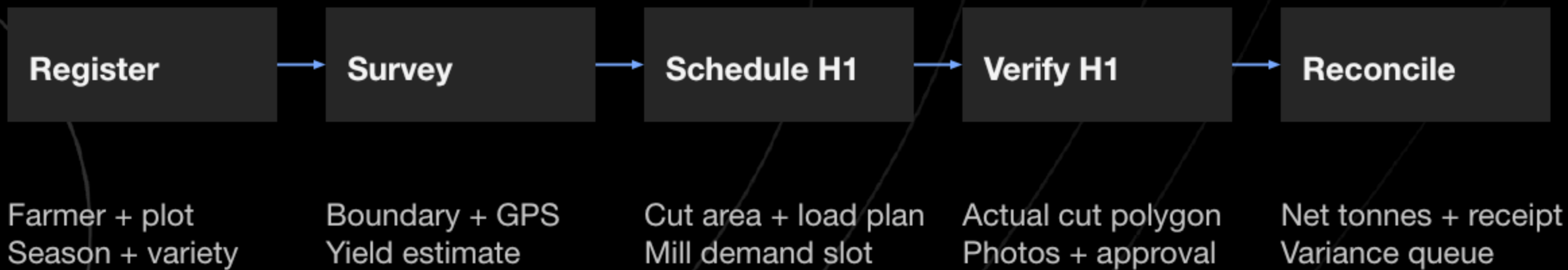
$$2.0 - 0.6 - 0.5 = 0.9 \text{ ha}$$

North ↑

Harvest events reduce standing area only after approval.



A lifecycle that preserves every partial cut



Standing area remains open for H2, H3 and later events until closure.



The harvest event is the core transaction

Event record

Plot + season + event ID
Planned and actual cut area
Cut start / completion time
Expected tonnes and range

Evidence + review

Sub-polygon or area entry
GPS position and accuracy
Photos and capture time
Supervisor approval

Balance rules

Prevent overlapping cuts
Reject negative standing area
Version corrections with reasons
Recalculate after approved changes

Area is not tonnage. Weighbridge receipts remain the delivered-mass record.



Scheduling and dispatch use the standing balance

Supply forecast

Standing area $\times$ yield estimate, grouped by readiness window, variety and confidence.

Demand allocation

Planner aligns mill intake needs with maturity, road access, labour and available transport.

Dispatch control

Allocate vehicles and time slots. Track loading, departure, arrival and queue exceptions.

Replan when weather, cut completion, vehicle capacity or mill demand changes.



Field agents can update without a signal

Before the visit

Download assigned plots and forms. Cache maps within agreed storage and licensing limits.

At the field

Capture boundary edits, staged cut area, timestamp, GPS accuracy and optional photographs offline.

After reconnection

Sync queued events with unique IDs. Flag conflicting edits for supervisor review and show sync status.

Device capture time and server receipt time remain visible in the audit history.



Weighbridge reconciliation closes the loop

Match the load

Dispatch / load ID
Farmer + plot + harvest event
Vehicle and trip reference
Gross, tare and net weight

Review exceptions

Unmatched or duplicate tickets
Cancelled or split loads
Mixed-plot allocations
Estimated vs received tonnes

Approve the result

Tolerance by event and load
Supervisor disposition
Evidence for adjustments
ERP settlement reference

Actual receipts calibrate yield estimates. They do not prove harvested area.



A concrete farmer-to-mill example

01 Register

F-021 holds a 2.0 ha plot. The team records season, variety and an illustrative yield of 80 t/ha.

02 Cut in stages

H1 cuts 0.6 ha: 48 t forecast, 46 t received. H2 cuts 0.5 ha: 40 t forecast, 39 t received.

03 Replan intake

The planner sees 0.9 ha still standing, about 72 t at the assumed yield, and schedules the next cut.

85 t received is reconciled separately from the remaining 0.9 ha.



Trust, permissions and paper migration

Controlled access

Field agents: assigned plots
Planners: allocations
Supervisors: approvals
Finance: receipt / settlement view

Traceable changes

Who, when and why
Before / after values
Boundary and event versions
Exports and retention policy

Paper to registry

Scan and index notebooks
Transcribe or OCR with review
Deduplicate farmer / plot IDs
Verify boundaries in the field

Migration batches retain page references and unresolved discrepancies.



Satellite imagery is optional supporting evidence

Potential use

Compare seasonal vegetation signals, flag field changes and prioritise agent visits.

Practical limits

Cloud cover, revisit intervals and small plots can limit useful observations. Ground checks remain necessary.

Pilot decision

Use registry and agent evidence first. Add imagery only after agreeing coverage, licensing, cost and validation.

No autonomous harvest, yield or payment decision based only on imagery.



Plant and Energy connect supply to operations

Mill360 Plant

Relate cane arrivals to shift throughput, stoppages, recovery observations and maintenance work.

Mill360 Energy

Track steam, electricity and bagasse balances with agreed meter boundaries and data quality checks.

Operational decisions

Expose shortages and unexplained losses. Route alerts to owners and track corrective actions.

First release uses read access. Operational control remains with authorised mill teams.



Finance, Green and IQ use the same evidence

Mill360 Finance

Cost by tonne / shift
Receipt and settlement exceptions
Budget variance context
Reconciled ERP references

Mill360 Green

Water and resource records
Waste and emissions inputs
Evidence and approval history
Agreed reporting boundaries

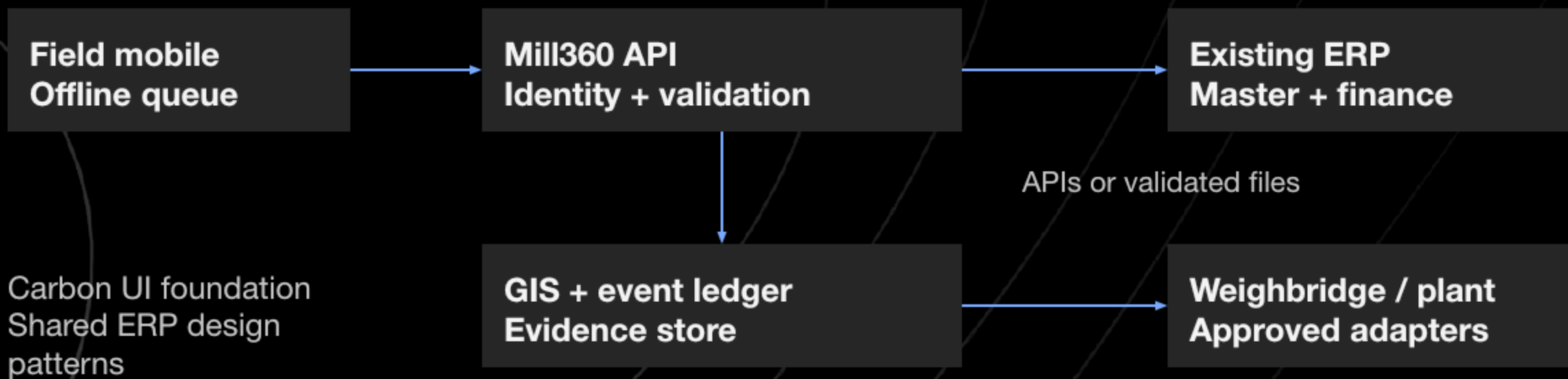
Mill360 IQ

Ask questions across modules
See sources and freshness
Respect user permissions
Review suggested actions

Finance validates savings. Green requires approved factors. IQ requires human review.



ERP integration architecture



Stable IDs, idempotent sync, retry queues, reconciliation and monitored failures.



A measurable 90-day pilot

Days 1–20

- Agree one-mill boundary
- Baseline current workflow
- Verify 200 plots / 100 farmers
- Map IDs and paper records

Days 21–50

- Train 5 field agents
- Test offline capture
- Connect one weighbridge feed
- Run parallel scheduling

Days 51–90

- Operate with supervisor review
- Measure matched events
- Compare baseline and pilot
- Agree rollout or stop

Illustrative scope: one mill, one cane zone, one season. Align to active cutting.



Pilot scorecard and acceptance gates

Registry quality	≥95% sampled plots pass ID, boundary and season checks
Harvest visibility	≥90% approved cut events recorded within 24 hours
Receipt traceability	≥95% eligible pilot receipts link to a harvest event
Planner effort	≥30% less median time to prepare the daily allocation
Control quality	No critical data loss. No unresolved critical access defect



Hypothetical annual ROI scenario

30

Annual gross benefit

20 logistics + 6 effort
+ 4 reconciliation

22

Year-one cost

12 subscription + 8 setup
+ 2 customer effort

8

Year-one net benefit

36% illustrative ROI
6.7-month steady-run payback

Assumed throughput 1.0m t. INR 2/t logistics benefit. No recovery uplift counted.



ROI sensitivity and proof of value

Conservative

INR 15 lakh benefit
INR 7 lakh net loss
-32% year-one ROI

Base case

INR 30 lakh benefit
INR 8 lakh net benefit
36% year-one ROI

Upside

INR 45 lakh benefit
INR 23 lakh net benefit
105% year-one ROI

Use signed trip costs, time studies and resolved exceptions. Avoid double counting.

Year-one breakeven: INR 22 lakh verified benefit.



Commercial structure for discussion

90-day pilot 3 lakh

Fixed scope: registry, staged harvest, offline workflow and one weighbridge feed. 50% kickoff / 50% acceptance.

Rollout setup 8 lakh

Total setup includes pilot credit on timely conversion. Broader migration and extra interfaces need a written scope.

Annual service 12 lakh

Indicative one-mill GIS licence, hosting and standard support. Other modules require separate pricing.

Agree user / plot limits, support SLA, ownership, data export and exit terms before signing.



The design-partner agreement

DCM Shriram Industries

Executive sponsor
Cane operations lead
IT and Finance reviewers
Approved pilot data access

Capslock

Product and delivery owner
Workflow configuration
Training and issue resolution
Weekly scorecard and export

Joint decisions

Pilot scope and baselines
Security and hosting approval
Weekly field feedback
Day-90 rollout decision

Requested next step: a 90-minute discovery workshop and one nominated pilot mill.



Source notes and assumptions

Public context

dcmsr.com/about-us, accessed 20 October 2026. Corporate identity and Daurala context only.

Discovery evidence

User-reported farmer interviews. Sample and applicability to Daurala require validation.

Brand reference

Capslock Connect background and original cockade. Carbon-inspired layout with IBM Plex typography.

Proposal assumptions

Features, mock field data, targets, ROI and prices are illustrative. Confirm systems, site and contracting entity.