THE FRAMEWORK

The Ledger Method™

What banks know about trust, applied to the planet.

A framework created by Raphael Garcia da Costa that records physical signals (dust, air, roads, energy) with the same discipline financial systems apply to money: every entry kept, every entry in context, nothing overwritten.

"Why are we so rigorous about money, but not about what keeps us alive?"

In financial systems, ledgers are the backbone. Every transaction has a timestamp, a counterparty, an amount and a link to the events before and after it. That structure is what makes reconciliation possible, audits credible and trust scalable.

After more than twelve years building ledgers that process millions of transactions across dozens of countries, Raphael asked that question during the pandemic. The answer became a method: instead of money, record metrics. Instead of accounts, record places, processes and activities. Instead of once-a-year summaries, keep a continuous, time-linked history.

Traditional reporting: a snapshot

- Collected quarterly or annually
- Averages that hide the spikes
- Overwritten when corrected
- Shows that a threshold was met
- Compliance as a checkbox

The Ledger Method: a living record

- Recorded continuously, in real time
- Every event kept, every anomaly visible
- Corrections added, history preserved
- Shows when and why a deviation happened
- Compliance as evidence

Four principles, borrowed from finance and proven in the field

1

Every event matters

Even the smallest entry can reveal a larger pattern. A monthly average hides the spike that hurt someone.

2

Nothing is overwritten

Corrections don't replace history; they add to it, preserving trust.

3

Relationships matter

An entry is never isolated. It belongs to a chain, and meaning comes from linking before and after.

4

Patterns over snapshots

The ledger is a living memory that shows trends, shifts and anomalies as they unfold.

Record. Connect. Reveal.

01

Record

Every reading becomes an immutable, timestamped entry, from a sensor on a haul truck, a wall in a ward or a meter on a line. Nothing is averaged away. A correction is a new entry that points to the old one, exactly as in accounting.

02

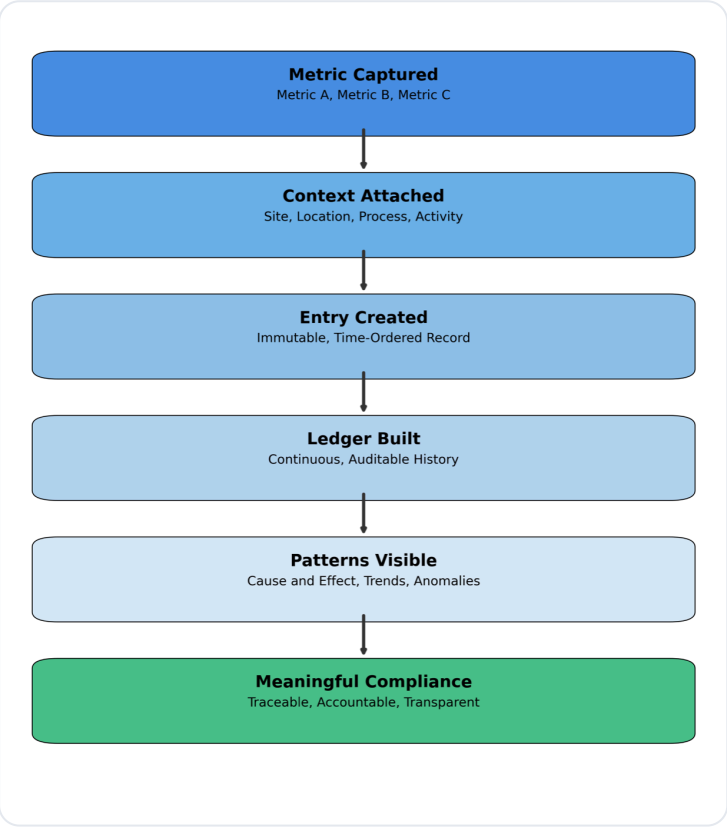
Connect

Each entry carries its site, process and moment: the vehicle, the room, the hour. Entries point to what came before and after, so cause and effect can be traced like a transaction trail.

03

Reveal

AI reads the chain for patterns and anomalies while they are still forming, then turns them into action on the ground and proof for regulators, boards and investors.



From a single metric to meaningful compliance: metric captured → context attached → entry created → ledger built → patterns visible → compliance that is traceable, accountable and transparent.

What a ledger looks like on a haul road

ENTRY	TIME	CONTEXT	READING	REF
#4812	12:01	Truck 07 · grade 6%	PM10 140	#4811
#4813	12:02	Truck 07 · road 41°C	PM10 310	#4812
#4814	12:03	Anomaly · spike after grade	PM10 620	#4813
#4815	12:04	Action · water cart to A3	—	#4814
#4816	12:11	Truck 07 · after treatment	PM10 95	#4815

Illustrative entries showing how a reading, its context, an anomaly and the action taken stay linked in one chain.

Applied, not theoretical

MINING · SENTINEL AI
Dust, silica and haul-road condition recorded from sensors on haul trucks.

HEALTH · SENSUSAIR
Indoor air in clinics, schools and workplaces, kept as a continuous record.

FINANCE · WHERE IT WAS LEARNED
A transaction ledger used by 20M+ people in 70+ countries.

Bring The Ledger Method to your organisation

Inspire · Keynote	The idea, the story and the live demo, for leadership summits and conferences.
Apply · Workshop	A working session that maps your own risks and data into Record, Connect, Reveal.
Build · Platform	Sensors, ledger and AI deployed through Sentinel AI, SensusAir or Hashtag AI Labs.

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