

# One source of truth. For every record. Every time.

---

AI-powered · No Cloud · One Licence

**"Can you answer this in under 60 seconds?**

What is the median price your organisation paid for a laptop last year?"

If the answer is buried across 12 different product descriptions,  
different suppliers, different systems — you are not slow.

Your data was never reconciled.

**That is what Milnesium fixes.**

# THE HIDDEN TAX ON DATA

Poor data quality costs every organisation — the question is how much.

**\$12.9M**

average annual cost of poor data quality per organisation

Gartner, 2020

**15–25%**

of revenue lost annually due to bad data

MIT Sloan, 2017

**2 in 3**

firms don't trust their data enough to act on it

Accenture, 2019

These issues show up across industries, teams, and functions — from hospitality and healthcare to HR, facilities, IT, finance, and shared services.

## Where the pain hits hardest

TEAM	DAILY CONSEQUENCE	SOURCED BENCHMARK
<b>Inventory</b>	Manual SKU lookups — same item, multiple descriptions, no link to master	~80% of analyst time spent preparing data (HBR, 2017)
<b>Supplier Spend</b>	Invoices processed manually. Same service, inconsistent descriptions.	~8.3 days average invoice processing time (IOFM, 2025)
<b>Service Desk</b>	Misrouted cases. Every reassignment wastes time across the whole chain.	~1h 46m lost per reassignment (HappSignals, 2024)
<b>Data / MDM</b>	Duplicate masters. ETL failures. Nobody trusts the reference data.	~20 FTE-equivalent per year in manual reconciliation (Acceldata)

# WHAT MILNESIUM DOES

Three representative workflows. One configurable engine. No cloud dependency.

## 01 MATCH

### Entity Matching

Upload your input file and your reference master. Milnesium matches each record using exact identifier lookup first, then AI similarity for everything that does not match exactly.

Every record comes back with a suggested match and a confidence score. Reference attributes — item code, category, or service class — are retrieved automatically.

## 02 CLUSTER

### Entity Clustering

When your vendor list, product catalogue, or client database contains duplicates, Milnesium identifies all variants of the same entity and groups them together, assigning a single canonical name.

Each member is scored against the canonical name. No reference file required — the tool works from the input data alone.

## 03 ANALYSE

### Analytics & Reporting

Interactive dashboards, pivot tables, and confidence distributions give full visibility into match quality and data consistency. Export to Excel or Word.

After matching/clustering: pivot by category, department, service class, or location to generate summary statistics — turning reconciled data into actionable intelligence.

## How it works

Fast to deploy. No coding. Minimal IT effort to start.

1

### UPLOAD

Upload input data.  
CSV or Excel.  
Flexible schema.

2

### CONFIGURE

Select columns, pick algorithm, set threshold. Save config for reuse.

3

### AI MATCH

Exact match first, then semantic AI. Local model. No cloud.

4

### REVIEW

Every result scored. Review low-confidence items. Full audit trail.

5

### EXPORT

CSV, Excel, or Report. Ready for ERP upload or management review.

*100% local. Each team brings their own files, defines their own columns, sets their own confidence threshold — the engine adapts to the data. Works standalone or embedded inside existing automation.*

# REPRESENTATIVE WORKFLOWS

Three examples. One configurable engine.

## HEALTHCARE / OPERATIONS

### THE PAIN

“Med Supplies Sept batch”, “Medical supply restock”, “Medical supplies” — the analyst checks historical records each time to assign the right category and coding. 2–6 minutes per record.

### WITH MILNESIUM

Each record is matched against historical classifications. NLP algorithms clean and normalize recurring descriptions. Analyst reviews exceptions only.

1–3% → <0.5% coding error rate

## INVENTORY / ITEM MASTER

### THE PAIN

500 purchase requests per week. Same product arrives as "Dell Latitude 14in i5", "DELL-LAT-5420", "Portable Dell Core i5 8GB". No SKU. Analyst matches each one manually.

### WITH MILNESIUM

Descriptions resolve to a single canonical entry: LAPTOP-DELL-LAT-5420 | Category: IT Hardware | €1,247. Analyst reviews low-confidence results only.

~8 hrs/week reduced to under 30 min

## SERVICE DESK

### THE PAIN

Tickets arrive as free text. Manual routing is slow. Every wrong assignment costs end-users nearly 2 hours of lost productivity.

### WITH MILNESIUM

Tickets are matched to a known-issue knowledge base via Semantic AI. High-confidence tickets auto-routed to the correct team.

1h 46min lost per reassignment — eliminated

# THE TRANSFORMATION

From fragmented descriptions to one reconciled, scored output.

## BEFORE

DESCRIPTION	SUPPLIER	PRICE
Dell Latitude 14in i5	TechDirect	€1,247
DELL-LAT-5420	IT Supply Co	€1,189
Portable Dell Core i5 8GB	CorporateIT	€1,310
Dell Lat 5420 Laptop	EuroTech	€1,255
laptop dell latitude i5 14	MegaStore	€1,199

- ✗ No SKU link
- ✗ 5 different descriptions
- ✗ No way to aggregate prices
- ✗ Manual lookup required

Milnesium ▼

## AFTER

INPUT	MATCHED SKU	SCORE	CATEGORY
Dell Latitude 14in i5	LAPTOP-DELL-5420	97%	IT Hardware
DELL-LAT-5420	LAPTOP-DELL-5420	100%	IT Hardware
Portable Dell Core i5	LAPTOP-DELL-5420	89%	IT Hardware
Dell Lat 5420 Laptop	LAPTOP-DELL-5420	94%	IT Hardware
laptop dell latitude i5	LAPTOP-DELL-5420	85%	IT Hardware

- ✓ Single SKU for all variants
- ✓ Confidence score per match
- ✓ Category auto-enriched
- ✓ Audit trail for every decision

Matching done in seconds. Deterministic output — same input, same scores, every time.

# WHY MILNESIUM?

One of very few solutions combining local Semantic AI, self-service configuration, and a one-time cost model.

	Milnesium ER	Cloud-Based ER	Manual Process
Data stays local	✓	✗	✓
Cost model	One-time	Usage fees	Labour headcount
Semantic AI	✓ Local	✓ Cloud	✗
Internet required	No	Typically, yes	No
Setup time	Minutes	Days–weeks	Months (training)
Audit trail	Full scores	Varies	None

## Total cost of ownership

- › One-time perpetual licence — no recurring fees
- › Runs locally — zero cloud or hosting infrastructure required
- › No integration required — works standalone or inside existing automation
- › No usage-based charges — no per-record or per-API-call fees
- › Single .exe deployment — minimal IT setup, no coding
- › Data never leaves the machine — no compliance overhead

## Calculate your number

Records/month × Minutes/record ÷ 60 × Hourly cost = Monthly cost of manual process

Example — One team, 200 records/month:

**200 × 3 min × €40/hr ÷ 60 = €400/month → €4,800/year**  
*from one team, one task*

**Your data never leaves your machine.**

**Your licence never expires.**

**Your tool adapts across departments.**

---

No installation. No integration. No maintenance. No subscription.  
Every result — auditable, repeatable, and ready for your automation pipeline.

## **15-DAY FREE TRIAL**

Download, configure, and run  
Milnesium Entity Resolution Engine  
against your own dataset. No commitment.

**[milnesium.com](https://milnesium.com)**

[contact@milnesium.com](mailto:contact@milnesium.com)