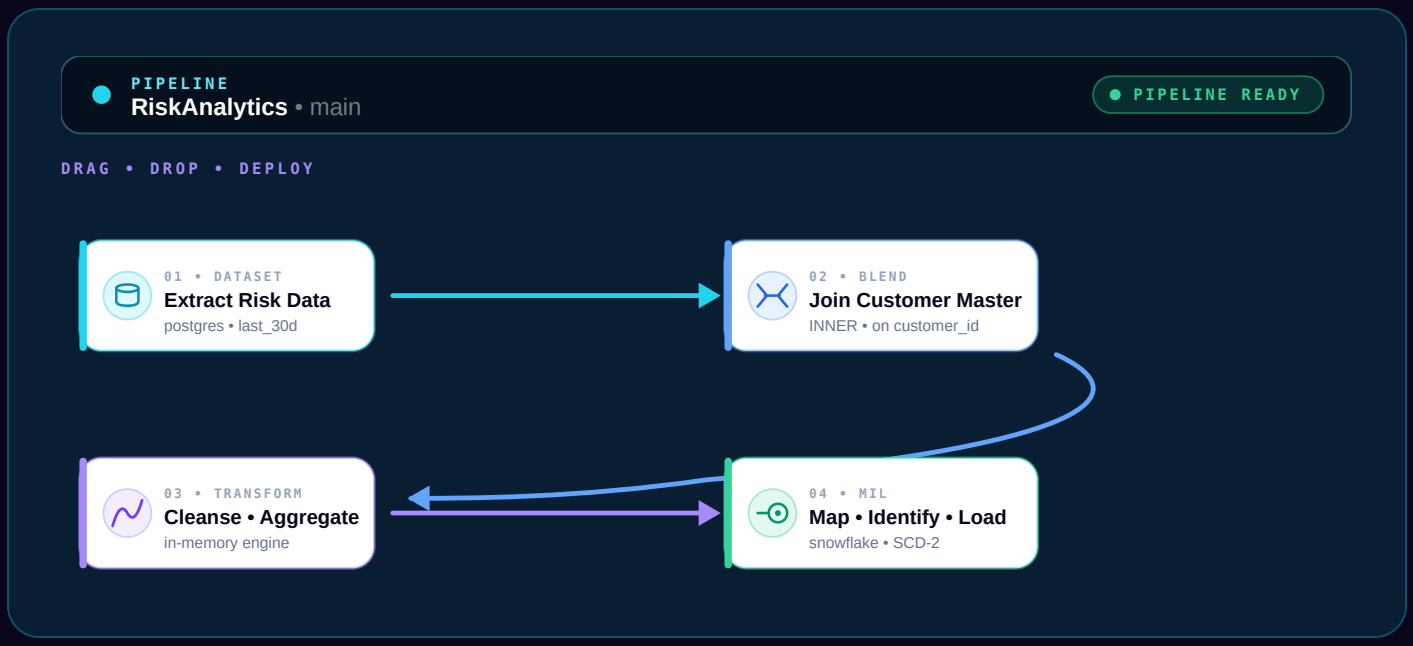
COMPOSER · A XAQUA PRODUCT

Composer.

The AI Data Engineer's tool | No-code · Visual | Active Metadata

Every pipeline, drag-and-dropped. No Python. No lock-in. No waiting.

Composer is the tool of xAQUA's AI Data Engineer — an AI agent that proposes pipelines, configures operators, and validates contracts in plain English. Build pipelines on a visual canvas powered by a semantic-layer foundation, end-to-end column-level lineage, built-in observability, and master data resolution. **First pipeline in production on Day 1.**



ACTIVE PIPELINE HEALTH

Data engineers spend 60% of their time fixing broken pipelines. Composer fixes that.

Schema drift. Silent failures. Cascading downstream errors. The firefighting tax. Composer collapses it with a four-part defense — **prevent at design time, detect in real time, trace through end-to-end lineage, alert before bad data leaves the gate**.

60%
Of a data engineer's time spent investigating, diagnosing, and repairing broken pipelines.

3 days
Per engineer, per week — lost to firefighting overnight schema breaks and source changes.

8–13
Disconnected tools in a typical pipeline stack — orchestrator, quality, lineage, none talking.

THE PROMISE

One canvas. One foundation. Pipelines that don't break the same way.

Composer replaces ten thousand lines of Python with a visual canvas. Built on a semantic-layer foundation that understands both your sources and your targets — and operated by xAQUA's AI Data Engineer agent, not just by humans with an assistant glued on.

Semantic foundation
Powered by **SemantIQ**. Composer understands both sides of every pipeline — source and target. Field mapping is auto-generated.

Active lineage & trust
Column-level lineage at design and runtime. Schema drift caught before deploy. Trust scores at every dataset.

Operated by AI agent
Composer is the tool of xAQUA's **AI Data Engineer**. The agent proposes; you review, approve, and steer.

THE AI DATA ENGINEER IN COMPOSER

One agent. One canvas. Augmentation, not replacement.

AI Data Engineer

xAQUA AI Data Team · operates Composer

Powered by **Active Metadata** from the semantic layer, the catalog, and the lineage graph, the agent understands your sources, business definitions, and governance rules. Ask in plain English; the agent composes the pipeline, configures every operator, validates contracts, and wires the workflow. Promote ad-hoc work from Athyna into Composer with one prompt — **same semantic layer, same governance**. You review, approve, and steer.

SIX FOUNDATION PILLARS

More than ETL. Built on a foundation.

PILLAR 01 · IDENTITY

Operated by the AI Data Engineer

Composer is the tool of xAQUA's AI Data Engineer agent. **Plain-English pipeline construction**; humans review and steer.

PILLAR 02 · UNDERSTANDING

Semantic Layer Foundation

Powered by **SemantIQ**. Both source and target understood — source-to-target field mapping is auto-generated.

PILLAR 03 · LINEAGE

End-to-End Column-Level Lineage

Active Metadata tracks every transform. Forward impact analysis. Backward root-cause diagnosis.

PILLAR 04 · MIGRATION TESTING

Natural Language Migration Testing

Analytics Data Lake reconciles source and target in plain English. *"Do Q3 totals match?"* — no SQL.

PILLAR 05 · TRUST

Built-in Observability & Trust Score

SLA tracking, anomaly detection, schema drift alerts, dataset-level Trust Scores — **built into every operator**.

PILLAR 06 · MASTER DATA

Master Data Built-In

Automated **MDM**, **Probabilistic ER**, and **SCD-0/1/2/3** in the MIL operator. No separate MDM tool.

LEGACY MIGRATION & MODERNIZATION

From legacy systems to a modern stack — in weeks, not years.

Government agencies stuck on mainframes. Commercial firms stuck on systems written in 1998. Both face the same trap: undocumented business rules, opaque schemas, and migration projects that overrun every estimate. Composer breaks the trap — auto-generated source-to-target mapping, automated MDM and Probabilistic Entity Resolution for highest data quality, and natural-language reconciliation testing.

CASE STUDY · CALIFORNIA STATE AGENCY

From legacy chaos to a clean Salesforce CRM — without an army of consultants.

6	6	1
DATASETS MIGRATED	WEEKS · DEV → TEST → PROD	FRACTIONAL ANALYST

A California state agency ran legacy datasets in **diverse formats**, with severe **data quality problems** and no reliable master or reference data. Compliance reporting depended on manual reconciliations. Using **Athyna** with NL transformations (ConverseSQL) for prep, and **Composer** for no-code ETL into Salesforce, the team profiled, cleansed, deduplicated, and loaded six datasets through DEV → TEST → PROD with one fractional analyst. **Master-data uniqueness** enforced with SCD-0/1 in Composer's MIL operator. Migrated entities: Account, Contact, Location, Address, Commodity, Regulatory Code.

CUSTOMER REFERENCE · GOVERNMENT

A $300B+ U.S. public pension fund uses Composer for benefit eligibility, compliance reporting, and data cataloguing — fully private deployment.

Information retrieval that took the team **days** — searching across siloed systems, preparing extracts, and joining files manually — now takes **seconds**. Composer runs entirely inside the customer's environment. No data leaves. The semantic layer enforces governance; the AI Data Engineer handles pipeline construction.

SEE IT ON YOUR OWN DATA

Get a 30-minute Composer demo.

We'll walk through your real pipeline workflow — show you the AI Data Engineer in action — and outline a private deployment path if it's a fit.

WEB	EMAIL	DEMO
xaqua.io	**sales@xaqua.io**	**xaqua.io/demo**