Catalyst Data

Relational Backbone for Transparent Analysis — Structured, Coherent, Governable

Overview

Catalyst Data is the relational backbone of the Sustainable Catalyst ecosystem. It structures entities, metrics, sources, instruments, and analytical outputs into a coherent, traceable system — preventing fragmentation and preserving institutional memory.

The Structural Problem

In many organizations, data lives in disconnected spreadsheets, dashboards, and narrative reports. This fragmentation weakens governance, obscures provenance, and creates metric drift. Catalyst Data introduces relational discipline to maintain analytical coherence.

Core Architecture

- Normalized schema for entities, indicators, periods, and measurements.
- Explicit linkage from question $\rightarrow$ instrument $\rightarrow$ metric $\rightarrow$ measurement $\rightarrow$ analysis.
- Audit-friendly joins and structured views.
- Designed for clarity before scale.

Governance & Provenance

- Every measurement links back to documented sources.
- Changes preserve historical traceability.
- Supports institutional review and reproducibility.
- Optimized for transparency, not vanity dashboards.

Ecosystem Integration

Catalyst Data underpins Analytics R (modeling), Global Impact Catalyst (indicator systems), Narrative Risk (interpretation layers), and Catalyst Finance (economic framing). It ensures modules interoperate without losing context or evidentiary discipline.

Outputs

- Structured relational database.

- Export-ready views for analysis.

- Traceable audit logs.

- Stable schema for future APIs and automation.