System Overview

How the modules relate - shared entities, shared evidence, shared governance.

Purpose

Sustainable Catalyst is designed as a coherent system, not a pile of tools. The modules share common entities, common sources, and common rules for how claims and metrics are produced.

Core design commitments

- Traceability: every output can be followed back to inputs, sources, and assumptions.
- Auditability: transformations are documented; black boxes are avoided.
- Human-readable governance: decisions remain explainable to stakeholders.

Catalyst Canvas

Design thinking workspace.
POV/HMW, personas, journeys, experiments.
Defines the questions.

Narrative Risk

Claims and evidence layer.
Timelines, sources, uncertainty.
Governs interpretation.

Global Impact Catalyst

Indicator pipelines.
SDG-style reporting, scenarios.
Reproducible exports.

Catalyst Finance

Incentives and tradeoffs.
Pricing, distribution, sensitivity.
Assumptions stay visible.

Catalyst Data

Shared SQL backbone.
Entities, periods, sources, metrics.
Traceability across modules.

Catalyst Analytics R

Modeling workflow.
Scenario runs, indicator analytics.
Exports + audit notes.

Human Systems

Catalyst Grit supports the human side of sustained work - tracking perseverance, setbacks, and recovery with transparent, editable rules.

System Overview

Governance and end-to-end flow.

End-to-end flow (simplified)

1) Frame the question in Canvas (POV/HMW, hypotheses, measurement plan).

2) Capture claims and sources in Narrative Risk (what is asserted, by whom, with what evidence).

3) Store entities, periods, and measurements in Catalyst Data (single relational backbone).

4) Run analysis in Finance and/or Analytics R (scenarios, sensitivity, indicator computation).

5) Export outputs with provenance (PDF/CSV summaries + audit notes).

Governance rules

- No orphan numbers: metrics must link to a source, method, and time period.
- No hidden assumptions: parameters are declared and versioned.
- Uncertainty is explicit: confidence ranges and narrative qualifiers are preserved.
- Revisions are expected: the system is built for iteration, not perfection.

What this prevents

- Cherry-picked dashboards with unclear sourcing.
- One-off spreadsheets that cannot be reproduced later.
- Narrative drift where claims detach from evidence over time.

What this enables

- A public-facing library of foundations that keeps the platform coherent.
- Audit-ready exports for stakeholders, reviewers, or collaborators.
- A reliable base for future automation and open-source contribution.