TECHNICAL NOTE / VERSION 5

Complex Scenario Modeling

Operating model for analyzing structurally different future configurations under uncertainty.

Operating purpose

CS V5 receives a bounded problem, a time horizon, a declared evidence base, and an explicit uncertainty statement. It constructs a relational model of the system, tests alternative configurations, then works backward from those configurations to identify activation conditions, decision windows, and conditional interventions.

The result is not a forecast. It is a versioned decision architecture that keeps more than one coherent state available until evidence justifies narrowing the field.

Operating contract

INPUT	ANALYTICAL OBJECT
Problem statement; boundary; horizon; actor perspective; declared source set.	Variables; relations; mechanisms; constraints; temporal differences.
PROCESSING	**RETURN**
Six sequential operations; explicit transfer; no silent overwrite.	Possible states; activation signals; intervention portfolio; traceable report.

Execution logic

01	02	03	04	05	06
Frame	**Variables**	**Relations**	**States**	**Interventions**	**Report**

Every transfer retains source status, uncertainty, and analytical origin. A later operation can extend an earlier result, but cannot erase or silently replace it.

01 / CONTROLLED SEQUENCE

Six operations transform the analytical object.

The descriptions below specify function, output, and control condition without distributing executable prompts or internal operators.

	OPERATION	FUNCTION / OUTPUT / CONTROL
01	**Define the system**	Declares boundary, scale, horizon, perspective, evidence base, assumptions, and initial uncertainty. OUTPUT Validated system frame. CONTROL Inclusions, exclusions, and assumptions are explicit.
02	**Build the variable field**	Identifies established, emerging, and divergent factors capable of altering the system. OUTPUT Critical variable inventory. CONTROL Each variable retains evidence status and relevance.
03	**Build the relational architecture**	Maps reinforcing, suppressing, delaying, redirecting, and unresolved relations. Tests where the first explanation remains incomplete. OUTPUT Relation and mechanism map. CONTROL New elements require material relational change and attributable evidence.
04	**Configure possible states**	Combines compatible conditions and mechanisms into distinct system configurations. OUTPUT Possible states with activation indicators. CONTROL No forecast probability; uncertainty remains visible.
05	**Translate states into interventions**	Works backward from each state to its decision windows and alterable relations. OUTPUT Conditional intervention portfolio. CONTROL Each action retains state, mechanism, reversibility, and signal.
06	**Integrate the decision report**	Assembles evidence, relations, states, interventions, disagreement, and uncertainty. OUTPUT Versioned decision report and monitoring structure. CONTROL Every material conclusion is reconstructable.

02 / TECHNICAL CONTROL

Traceable execution across different depths.

The orchestration logic, structural measures, and traceability criteria remain consistent. Access modes change execution capacity and analytical depth, not the control principle.

TRACEABILITY CHAIN

Evidence > Condition > Relation > Mechanism
Possible State > Decision Window > Intervention > Monitoring Signal

STRUCTURAL MEASURES

01 **Variable Diversity**

Checks the range and distribution of relevant variables across the domains of the case.

02 **Relational Density**

Checks the number, type, and analytical relevance of relations established among those variables.

03 **Configurational Differentiation**

Checks that possible states differ structurally rather than restating one pattern.

04 **Inferential Traceability**

Checks whether each material conclusion and intervention can be reconstructed.

EXECUTION MODES

01 **V5 Light**

Limited direct execution through the CODHZ application for a defined problem.

02 **API Orchestration**

Unlimited V5 Light execution in Open Workspace using the user's model API.

03 **Complete Architecture**

Laboratory-moderated execution on frontier models with more exploration steps, variables, and controlled interactions.

OPERATIONAL BOUNDARY

The framework establishes

Structural coherence
Activation conditions
Analytical origin
Conditional optionality

The framework does not establish

Forecast probability
Automatic decision selection
Causal certainty
Substitution for domain review

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