

C-03, C-06, C-07	
G3 Replication Readiness .....	C-04
G4 Data Collection (Raw, Sealed) ....	
G5 Applications Pilots .....	C-07, C-12
G6 Public Demos/Protos	
G7 Publication & Replication .....	C-01..C-07, C-08, C-12, C-13
G8 Synthesis (Cathedral Complete) ...	C-08, C-10, C-11, C-12, C-14

## UTRE Indices Cross-Reference

~~Historical RV scores from analytical~~ C-01 (pre), C-03 (controls), C-12 (model fits).

$\Delta M$  (Operation):

Coherence/power change during active phases; referenced by C-01..C-03, C-07.

R(t) (Trajectory): Time

response across phases P1-P6; referenced by C-01, C-02, C-05, C-10.

$\Gamma$  (Coherence): Guard product;

primary functional pass criterion for C-01; monitored across all tests.

## Independent Audit Checklist (Per Claim)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Registered and signed (ID) | <input type="checkbox"/> Instrument calibration certs attached               |
| <input type="checkbox"/> Integrity controls                    |  |
| executed (C1-C5)   | <input type="checkbox"/> Raw files + SHA-256 manifest posted before analysis |
| <input type="checkbox"/> Blinding                              |  |
| respected (where relevant)                                     | <input type="checkbox"/> Analysis scripts match released version (hash)      |
| <input type="checkbox"/>                                       |  |
| Statistics correct (p-values, CI, effect size)                 | <input type="checkbox"/> Replication criteria met (if applicable)            |
| <input type="checkbox"/>                                       |  |
| Environmental corner cases covered                             | <input type="checkbox"/> Public demo auditor report (if applicable)          |
| <input type="checkbox"/>                                       |  |
| Pass/Fail determination logged with rationale                  | <input type="checkbox"/> Deviations & corrective actions documented          |

## Sign-Off & Responsibilities

~~Owner Matrix Examples):~~

- Propulsion (Lead: Owner-Omega)
- Coherence (Lead: Owner-Sigma)
- Data Integrity (Lead: Owner-Data)
- QA Regulatory (Lead:

### Approvals:

Technical Lead: \_\_\_\_\_ Date: \_\_\_\_\_  
 QA Lead: \_\_\_\_\_ Date: \_\_\_\_\_  
 Program Owner: \_\_\_\_\_ Date: \_\_\_\_\_

### Change Control:

Any update to claims or methods requires re-mapping and revision of this matrix;  
 keep versioned history.