

# Truth Architecture — Vocabulary & Explanation Sheet

*Clean language for explaining complex ideas under pressure*

## Purpose of this document

This sheet translates engineering, systems theory, biology, law, and evidence standards into **spoken, stable language**. It exists so the explanation lands *even if the technical term momentarily disappears*.

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## 1) What I was explaining — in plain language

**Static systems vs. living systems** What I was describing comes from **systems engineering** and **control theory**. A static system is frozen in its assumptions. Reality changes, but the system does not, so error accumulates. A living system updates itself through memory and learning. That is why static legal, bureaucratic, or documentation systems drift away from truth.

**Sampling error and aliasing (engineering)** In electrical engineering and signal processing, if you sample reality at the wrong rate, you can literally see motion backwards. This is called **aliasing**. I used this to explain how institutions can sincerely believe false narratives: they are sampling reality incorrectly, not necessarily lying.

**Homeostasis vs. equilibrium (biology)** This distinction comes from **physiology and systems biology**. Equilibrium is a dead stop — no regulation. Homeostasis is active regulation that keeps a system alive. Truth systems must behave like homeostasis, not equilibrium.

**Why memory and learning matter** In biology, life emerges when systems remember past states and adapt. In governance, justice, or truth systems, the same rule applies: if the system cannot remember errors and learn from them, it will repeat harm indefinitely.

**Why evidence beats narrative** Narratives persuade; evidence stabilizes. This comes from **scientific method, forensics, and due process doctrine**. A system anchored in evidence can be audited, insured, and corrected. A narrative-only system cannot.

**Why transparency and privacy must be separated** This distinction is grounded in constitutional law and human rights. **Systems and decision-makers** must be transparent. **People and victims** retain a right to privacy unless evidence justifies otherwise. Mixing these destroys trust and enables abuse.

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## 2) High-risk vocabulary (pronunciation + context)

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|-------------|--------------------------------------------------------------------------------------|
| Homeostasis | <b>hoh-mee-oh-STAY-sis</b><br>Active internal regulation that sustains life.         |
| Equilibrium | <b>ee-kwuh-LIB-ree-um</b><br>A static end-state; biologically associated with death. |

|                                              |                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------|
| <b>Recursive</b>                             | <b>ree-KUR-siv</b><br>Outputs become inputs; learning is built in.                   |
| <b>Aliasing</b>                              | <b>AY-lee-uh-sing</b><br>Sampling error that produces false perception.              |
| <b>Sampling rate</b>                         | <b>SAM-pling rayt</b><br>How frequently reality is measured.                         |
| <b>Platonic solids</b>                       | <b>pluh-TON-ik SAH-lidz</b><br>Fundamental geometric forms studied since Plato.      |
| <b>Mitochondria</b>                          | <b>my-toh-KON-dree-uh</b><br>Cellular energy turbines.                               |
| <b>ATP</b>                                   | <b>A-T-P</b><br>Cellular energy currency (biochemistry).                             |
| <b>Cognitive dissonance</b>                  | <b>KOG-ni-tiv DIS-uh-nuns</b><br>Internal inconsistency between belief and behavior. |
| <b>Due process</b>                           | <b>dyoo PRAH-sess</b><br>Procedural fairness anchored in law.                        |
| <b>Transparency vs. privacy</b>              | Systems are transparent; humans are protected.                                       |
| <b>Measurable / insurable / reproducible</b> | Criteria used in engineering, finance, and risk.                                     |

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### 3) Clean explanatory paragraphs (use these verbatim)

- “What I’m saying is that truth systems must behave like living systems — they have to remember, learn, and self-correct, or they drift into error.”
  - “In engineering, sampling reality incorrectly can make motion look reversed. Institutions do the same thing when their data inputs are distorted.”
  - “Evidence stabilizes systems because it can be audited. Narratives cannot.”
  - “Transparency applies to power. Privacy applies to people.”
  - “If a system can’t be measured, it can’t be insured. If it can’t be insured, liability gets hidden instead of corrected.”
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### 4) Self-evident truth architecture criteria

A truth architecture is valid if it is:

- **Reusable** — not dependent on personalities.
- **Scalable** — works for one case or many.
- **Modular** — components can be inspected independently.

- **Measurable** — error, drift, and correction are visible.
- **Insurable** — risk can be priced.
- **Reproducible** — independent parties reach the same conclusion.

**If it cannot be explained clearly, measured objectively, and corrected transparently, it is not a truth system.**