

# P — Proofs

## Core 4

- Worked examples.
- Stress tests.
- Falsifiers.
- Global win.

## Extended Roles

- Superpermutations: constructive ledger examples.
- Card ledgering: contradiction snap rules.
- Game extensions: Tarot, Mahjong, custom alphabets.
- DNA ↔ shell closure: cross-field biological proof.

## Super-State Closure

- If ledger proofs exist in one system, the same test patterns must appear in others.