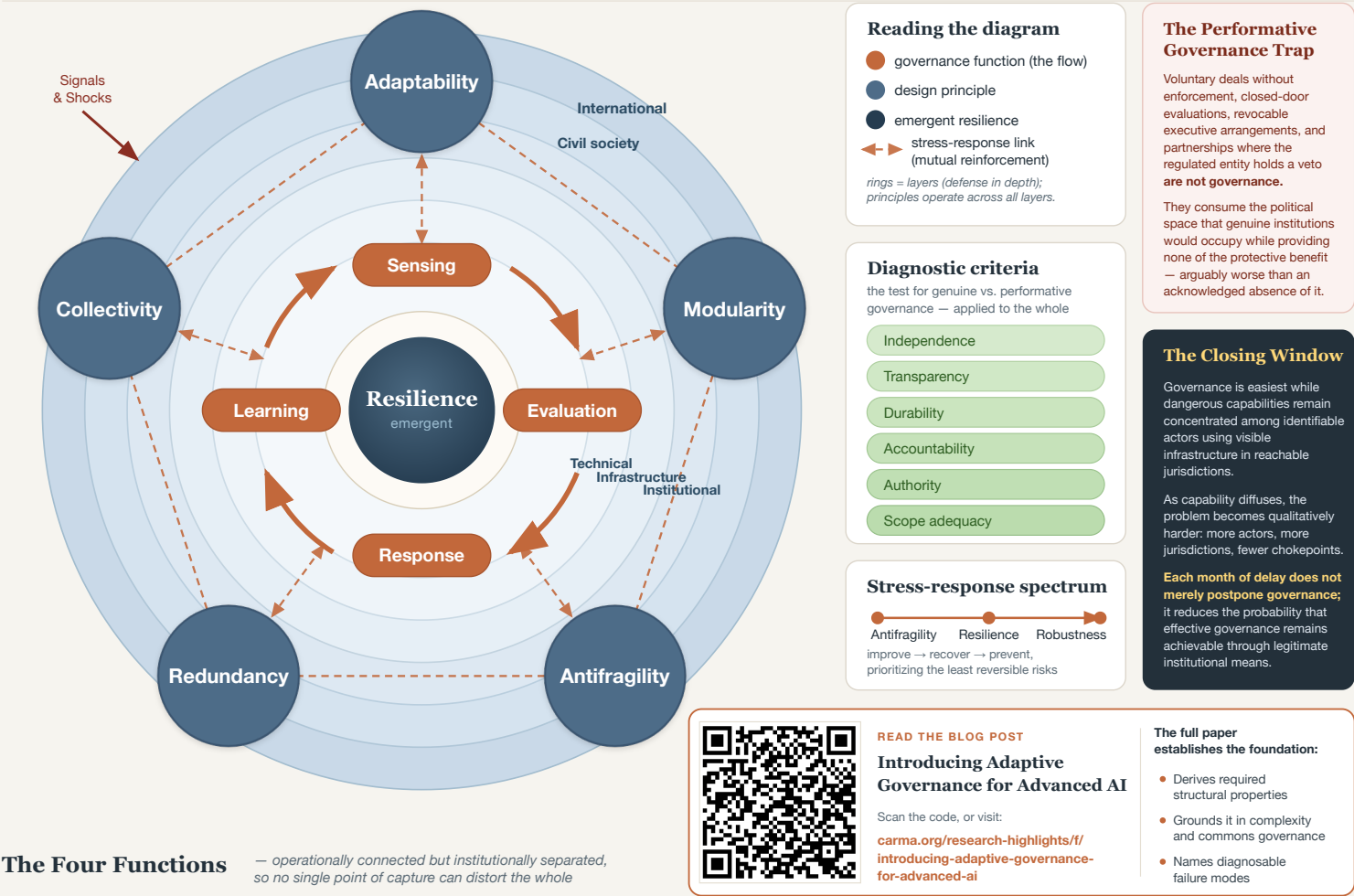


Governance That Moves at the Speed of AI

A Framework for Genuine Adaptive Oversight of Advanced AI Systems
Center for AI Risk Management & Alignment



The problem. Advanced AI is a complex adaptive system undergoing phase transitions on timescales far shorter than any domain governance has managed before. The challenge is not writing better rules but building institutions that can **sense, evaluate, respond, and learn** at the tempo of what they govern — while remaining legitimate, durable, and resistant to capture. The diagram below shows how.



Five Design Principles — each carries a characteristic failure mode when implemented in name only

Principle	Core Requirement	Failure Mode
Collectivity	Constituencies with conflicting interests participate substantively	Simulated inclusion dominated by incumbents
Adaptability	Bounded flexibility: stable revision process, changing outputs	Ossification, or unbounded discretion with no anchor
Modularity	Problems decomposed by risk surface with cross-module coordination	Fragmentation without escalation protocols
Redundancy	Multiple nodes with overlapping authority; named primary responsibility	Accountability diffusion — "everyone's job, no one's job"
Antifragility/Robustness	Stress produces tighter thresholds and expanded capacity	Claimed learning without observable improvement

Robustness (prevention) substitutes for antifragility wherever harms are catastrophic or irreversible — you cannot "learn" from an unrecoverable failure.

Layers develop in parallel, not sequentially.
Technical · Infrastructure · Institutional · Civil Society · International. No single layer suffices; each compensates for the others' weaknesses, and each can advance even when others are politically blocked.

Differential development: build the shield before the sword matures.
Prioritize defensive and protective capabilities ahead of the offensive ones they must counter, so each layer's defenses are in place before the corresponding threat arrives — not scrambled together afterward.

Adaptive governance is not a softer alternative to hard regulation.
It is the architecture required for regulation to remain meaningful under speed, uncertainty, emergence, and diffusion.

Resilience is the emergent product of the four functions and five principles operating across every layer — not a property of any single component.