

SYSTEMS ARCHITECTURE

Infrastructure projects evolve through time as pressures interact, accumulate, and reshape risk.

1. LIFECYCLE LAYER

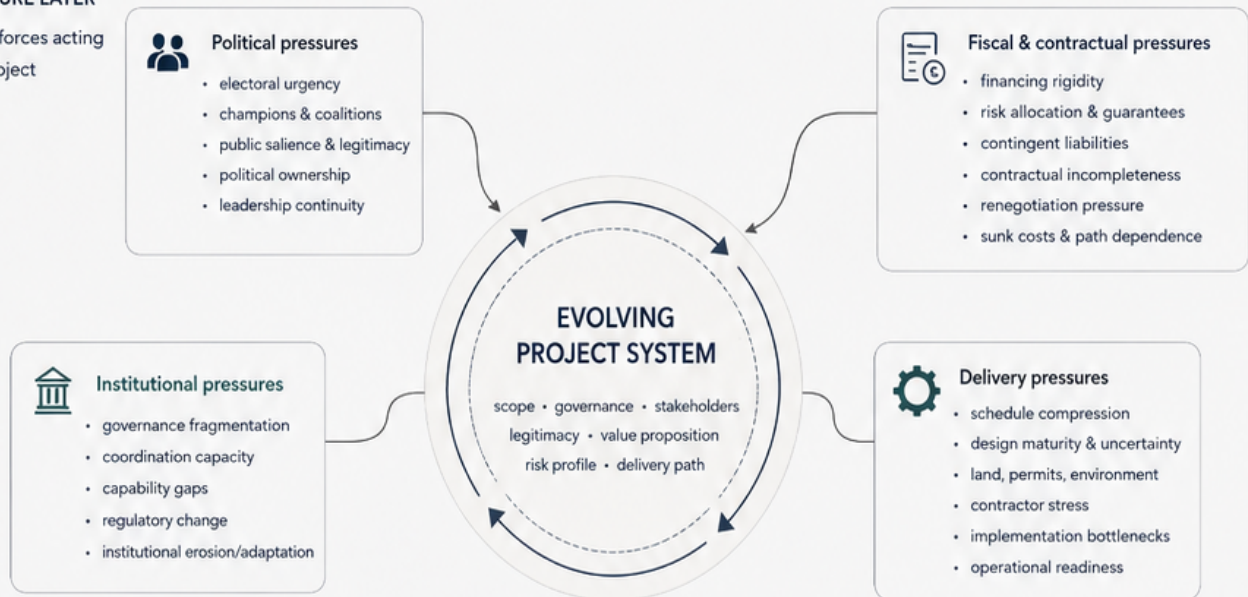
Project stages as political-institutional phases



Each stage changes what actors can do, what risks are visible, and how decisions shape future options.

2. PRESSURE LAYER

Dynamic forces acting on the project



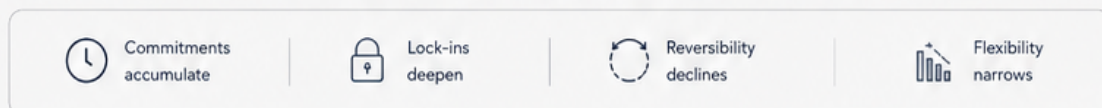
3. FEEDBACK LOOP LAYER

Recursive dynamics and risk migration



4. TEMPORAL ACCUMULATION LAYER

Commitments accumulate. Lock-ins deepen. Reversibility declines over time.



5. OUTPUT LAYER

The model's output: evolving risk structure over time



The model captures how political-institutional systems generate evolving risk structures. It supports governance, adaptation, and better decision-making under uncertainty.