

The 5 I's of Human-Led Innovation

The Human Design Thinking Operating Model (Pre-AI / Human-Paced Systems)



Optimized for episodic, human-led decision-making - not continuous autonomous systems

Why the 5 I's Break in AI-Mediated Systems



AI acts continuously between reviews, while governance remains episodic

Optimized for episodic, human-led decision-making - not continuous autonomous systems

From Design Thinking to Governed Execution

Replacing episodic review with continuous, machine-enforced governance



Governance moves from review checkpoints to enforced runtime constraints

Safety OS - The Missing Layer

AI Agents



Voice



Mobile



Humanoid

Requests / Intent / Output



Constraints / Permissions / Escalation

Safety OS



Consent



Authority



Escalation



Audit

Human Authority

Patients
Caregivers

Clinicians
Regulators

Governance is executed at runtime - not audited after the fact

From Innovation Theater to Responsible Execution

Old World

Workshops

Ethics statements

Retrospective audits

AI Reality

Continuous agents

Unobserved autonomy

Liability ambiguity

Safety OS World

Enforced authority boundaries

Reconstructable system behavior

Regulator-legible systems

Trust in AI systems is enforced by design, not promised by policy

How the 5 I's Evolve Under Safety OS

Design Thinking	→	AI-Era Equivalent
Inspiration		Continuous sensing
Ideation		Constrained generation
Iteration		Pre-deployment simulation & boundary testing
Implementation		Authority-bound deployment
Impact & Improvement		Always-on instrumentation