

AI UX/UI Design Tools Software: Selection, Requirements, and Workflow



Course promise: choose, specify, and operationalize AI-assisted design tools



Who this is for: designers, design-ops, leadership, legal, security, procurement, IT



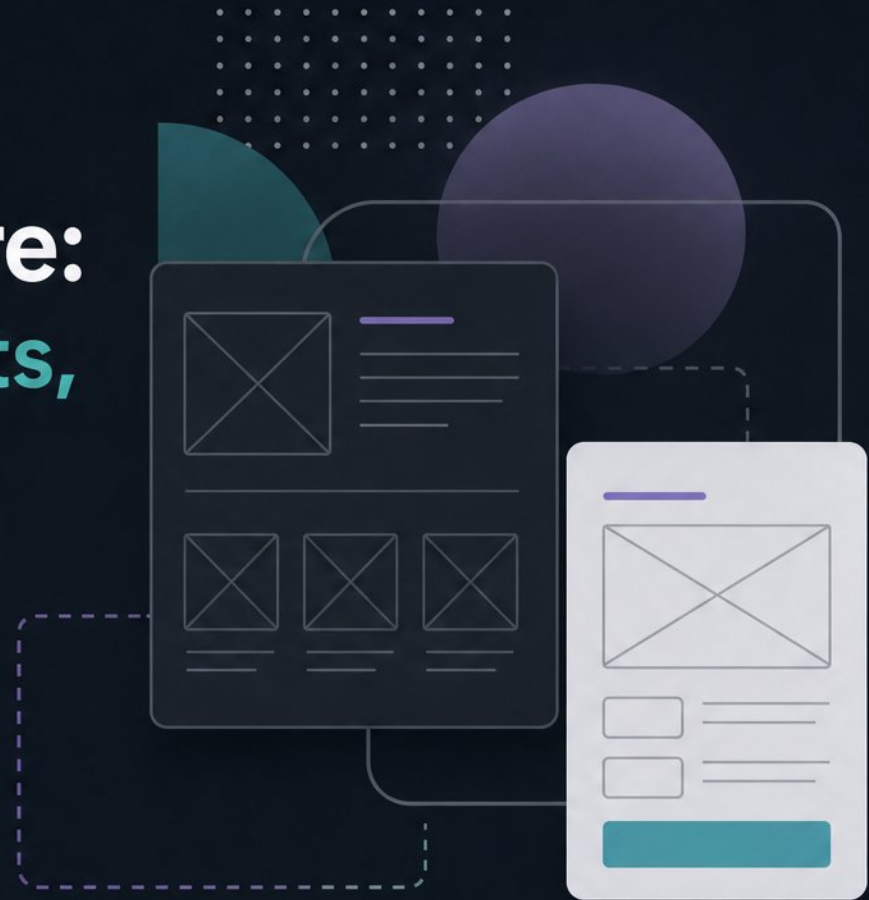
Key distinction: embedded AI features versus AI-native platforms



Roadmap: landscape → requirements → evaluation → workflow → governance → adoption



You leave with: a weighted scorecard, a requirements list, a mapped workflow



Background: Why AI Tool Selection Became a Design-Ops Discipline



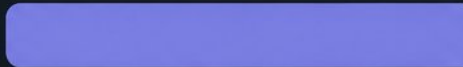
- 72% of designers now use generative AI in their workflow



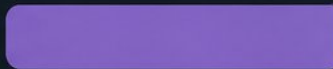
- Teams run ~7 AI tools on average — double a year earlier



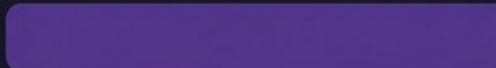
- Prototyping runs ~35% faster; 78% say AI speeds work



- Only 58% say quality improves; 40% still don't fully trust output



- Pilots pass on output; rollouts stall in legal, security, procurement



GOVERNANCE GATE



Prompt Logs



Retention



Model Version

v1.2.3



Audit Trail



Prompt Submitted



Policy & Security Gate



Review & Compliance



Approved for Use



Legal / Security / Procurement Backlog



Core Concepts and Vocabulary: AI Features, Copilots, and AI-Native Environments



- Three tiers: embedded AI features, context-aware copilots, AI-native platforms



- 2026 categories: asset generation, UI generation, design-to-code, research synthesis



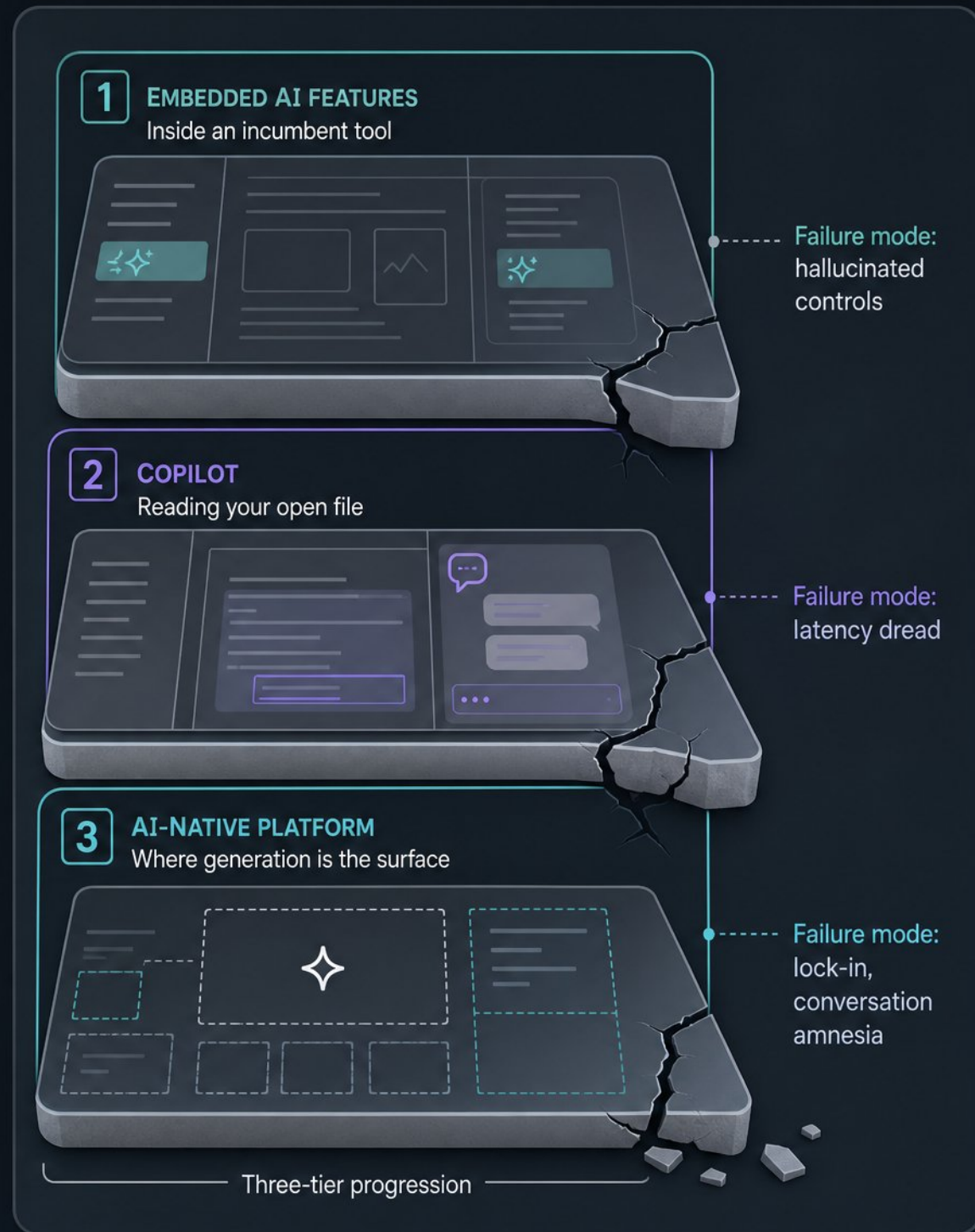
- Generative UI architectures: LLM-rendered components, tool calls, code-gen, hybrids



- Pattern vocabulary: primitives, intent slots, fallback states, recoverability, citations



- Failure modes: hallucinated controls, latency dread, lock-in, conversation amnesia



Market Landscape 2026: Category Map, Representative Tools, and Positioning

	• Image and asset generation: Firefly, Midjourney, Canva, Krea	 Seat-based
	• UI generation: Figma Make, Google Stitch, Magic Patterns, Subframe	 Credit-metered
	• Design-to-code: v0, Anima, Flowstep (React/TypeScript/Tailwind)	 Bundled
	• Research and workshops: Miro AI, Uizard, Visily, UX Pilot, Whimsical	 Credit-metered
	• Pricing splits: seat-based, credit-metered, or bundled	 Seat-based



Three-Tier Positioning Framework



AI-NATIVE PLATFORM

Purpose-built around AI workflows



COPILOT

AI assistant within the workflow



EMBEDDED FEATURE

AI capability inside a broader product



Seat-based

Access tied to seats or user licenses



Credit-metered

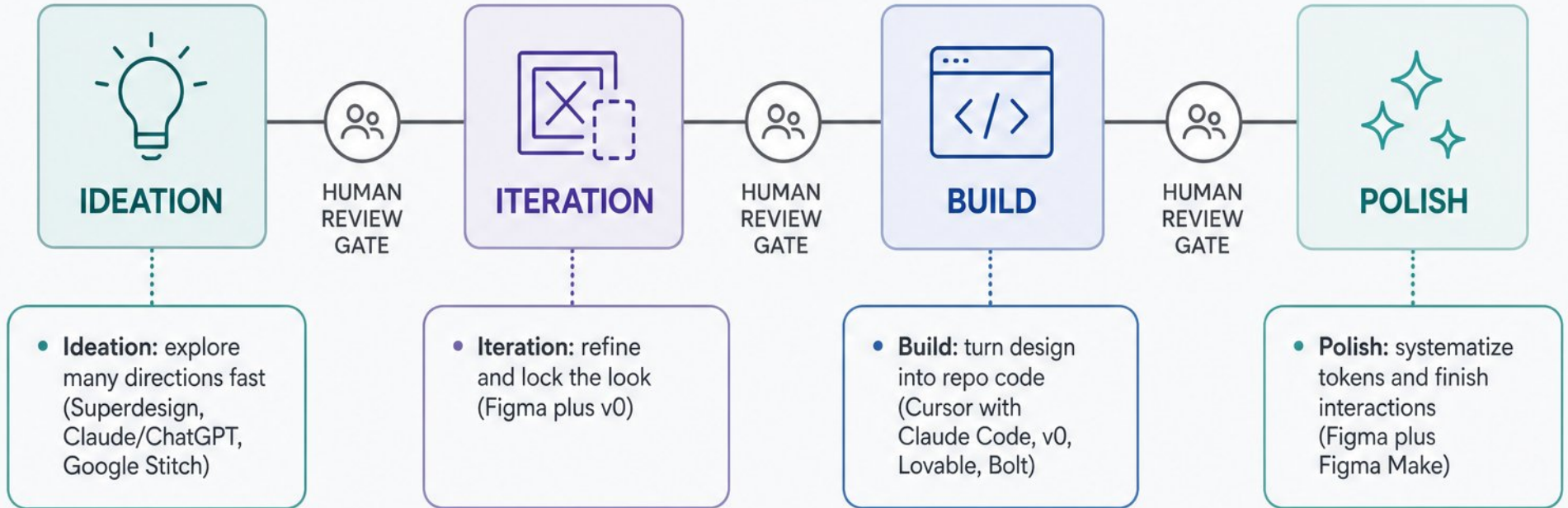
Usage measured by credits or tokens



Bundled

Included as part of a broader offering

Matching Tools to Workflow Stages: Ideation, Iteration, Build, Polish



- **Mockup-first** optimizes the picture; code-first optimizes what ships

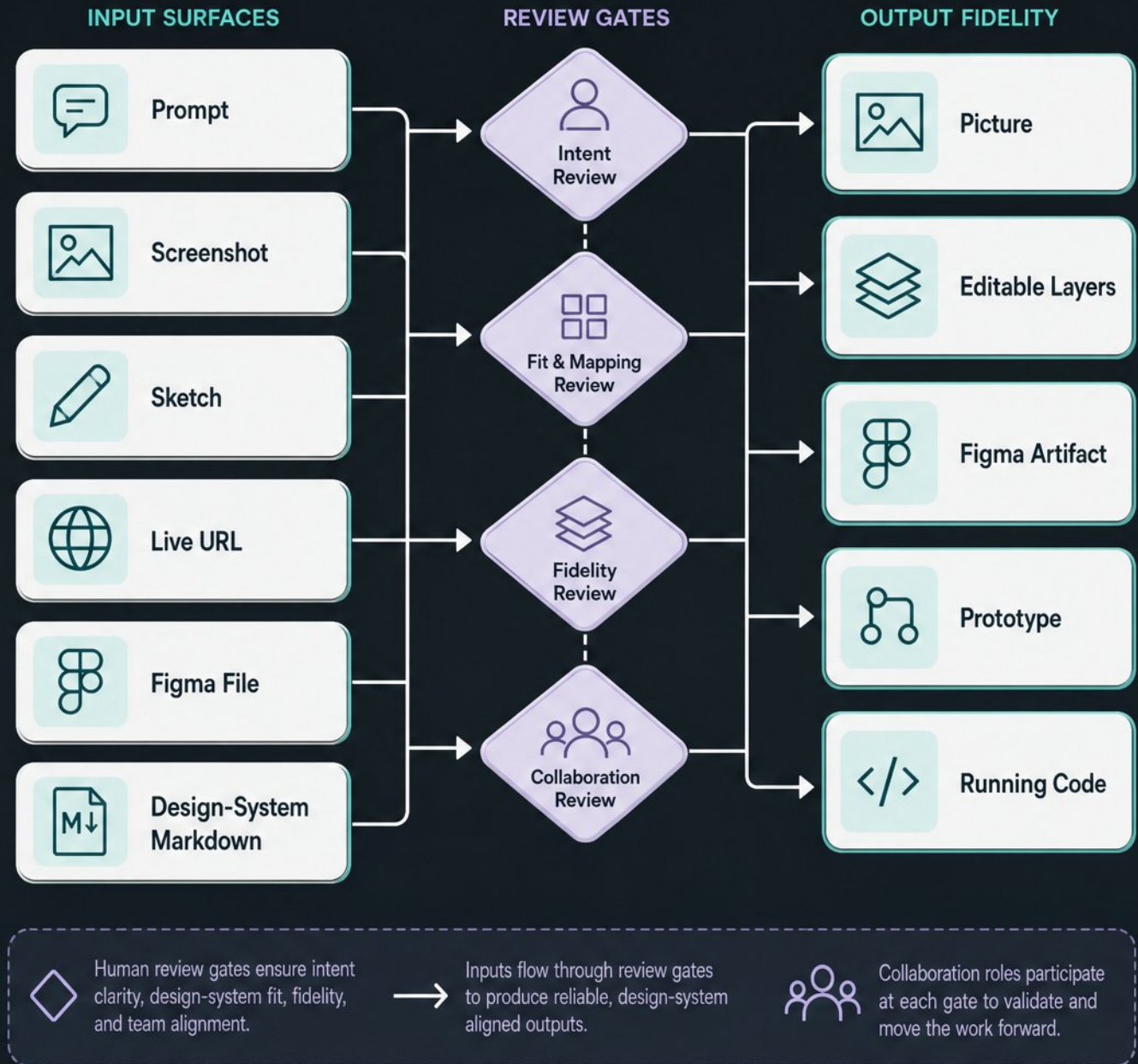


- **Deciding question:** what am I left holding, and can I ship it?

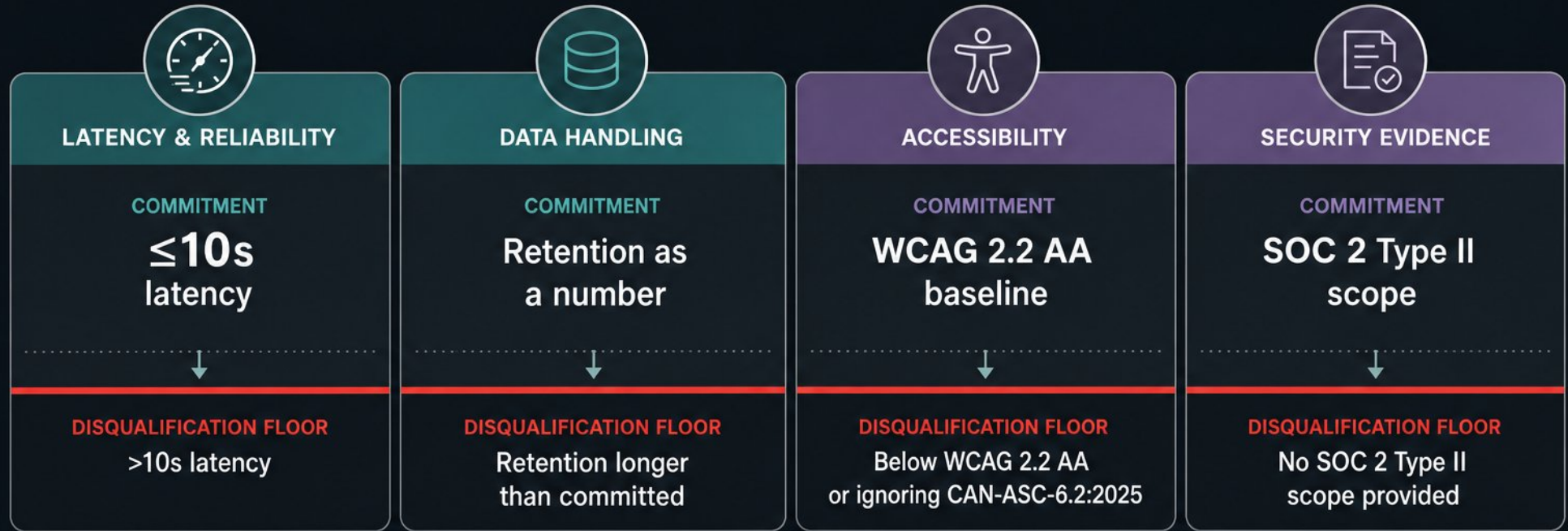


Defining Functional Requirements for AI-Assisted Design Tools

- Specify generative capabilities precisely: prompt-to-screen, multi-screen flows, accessibility checking, named code export target
- Design-system fit is a hard requirement: tokens, component identity, variant logic
- Generated output must map back to library definitions, not invent new ones
- Name input surfaces: prompts, screenshots, sketches, live URLs, Figma files, system docs
- Define output fidelity: picture, editable layers, Figma artifact, prototype, or running code
- Specify integration (plugins, MCP, APIs, SSO, CI/CD) and collaboration roles

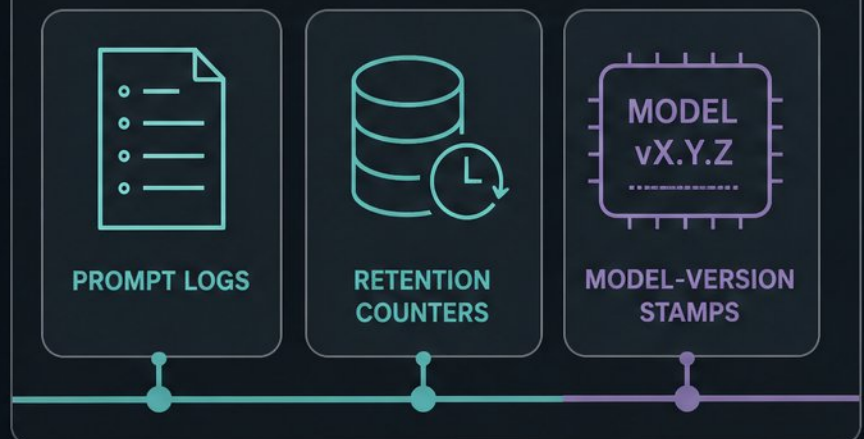


Non-Functional and Compliance Requirements: Latency, Data, Accessibility, Security



- Commit in writing: 80% accuracy, ≤10s latency, 10+ repeat users by week two
- Throughput: published rate limits, concurrency ceilings, throttling behavior (queue, degrade, or error)
- Data handling: storage region, inference location, retention as a number, binding training opt-out
- Accessibility: WCAG 2.2 AA baseline, CAN-ASC-6.2:2025; WCAG 3.0 is a draft, not a target
- Demand evidence: SOC 2 Type II scope, ISO 27001, ISO/IEC 42001, pen tests, 24–72h breach notice
- Classify use case by risk first, then set must-haves, weights, and disqualification floors

GOVERNANCE GATE HARDWARE (EXAMPLES)





Building a Weighted Evaluation Scorecard



- Eight weighted dimensions sum to 100: model quality 20%, data privacy 18%, cost 15%, latency 12%



- Re-weight by context: regulated leans privacy and exit; consumer leans cost and latency



- Score 1–5, multiply by weight; two evaluators score in parallel, reconcile gaps over one point



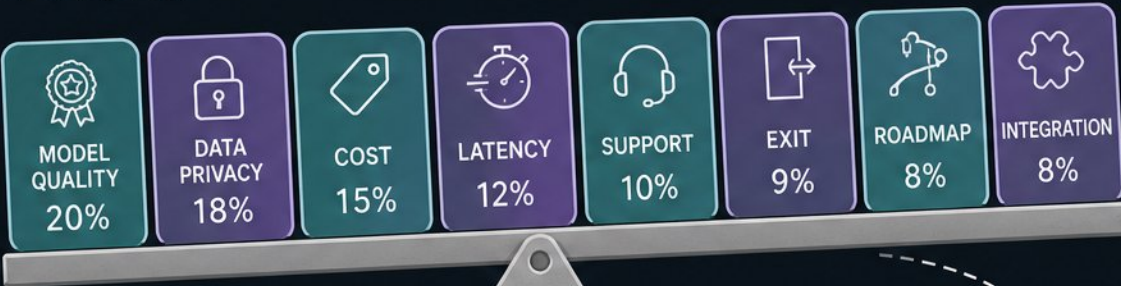
- Thresholds: 85+ strong fit, 75–84 verify weak spots, 65–74 constrained pilot only, below 65 drop



- Require evidence for every top score; a confident answer is not evidence



- Watch common failures: demo over-indexing, weak data-handling and deprecation scrutiny



HARD FLOOR:
Drop any option that fails non-negotiable criteria

DIMENSIONS		WEIGHT	TOOL A	TOOL B	TOOL C	TOOL D
	Model Quality	20%				
	Data Privacy	18%				
	Cost	15%				
	Latency	12%				
	Support	10%				
	Exit	9%				
	Roadmap	8%				
	Integration	8%				
TOTAL		100%				

Total Cost of Ownership, Pilot Design, and Decision Outputs



- TCO includes seats, credits, overages, services, admin time, legal review, and prompt maintenance



- Model cost at 1x, 3x, and 10x volume, including retries and overage



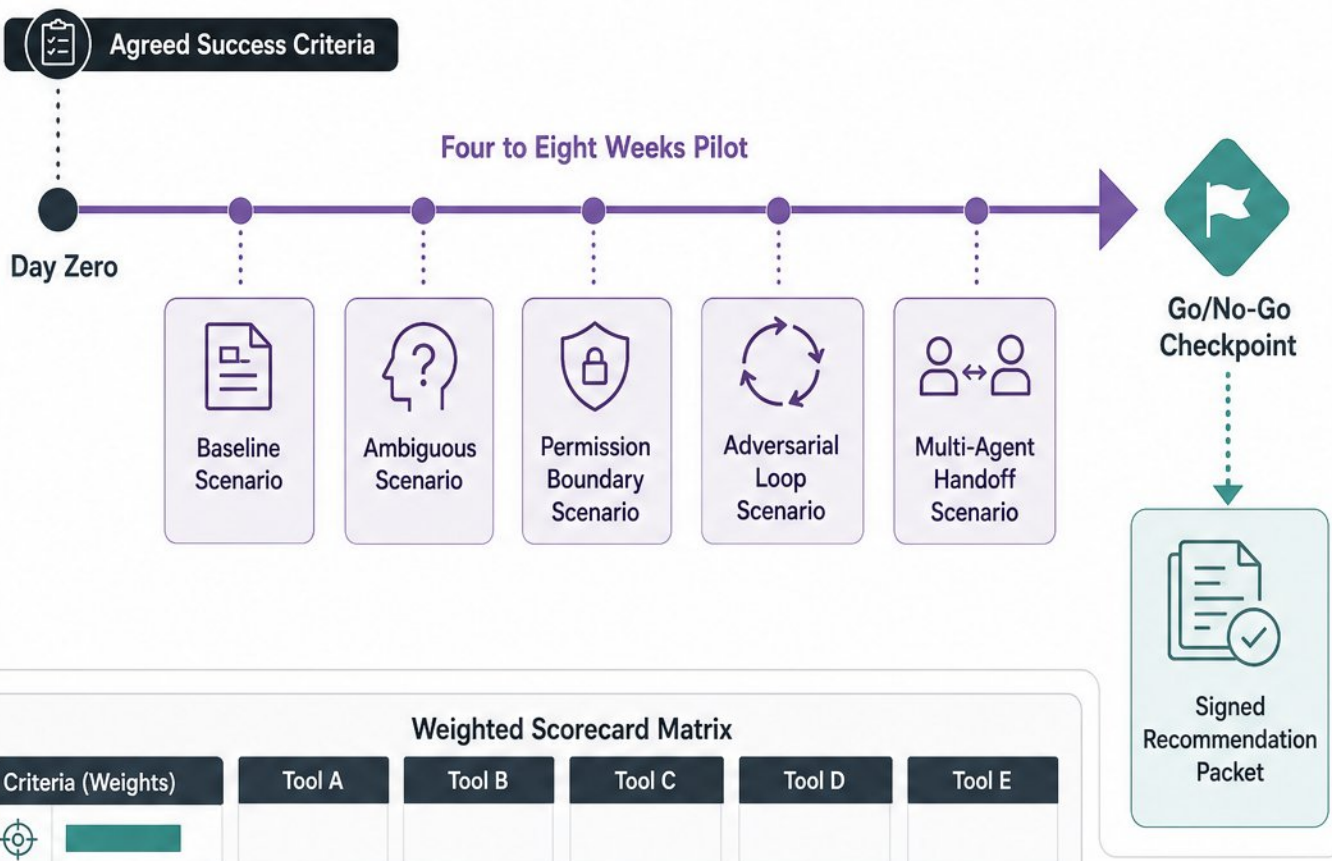
- Pilot two real workflows, time-boxed four to eight weeks, success criteria agreed upfront



- Buyer-controlled harness: five task scenarios, scored against evidence artifacts before negotiation

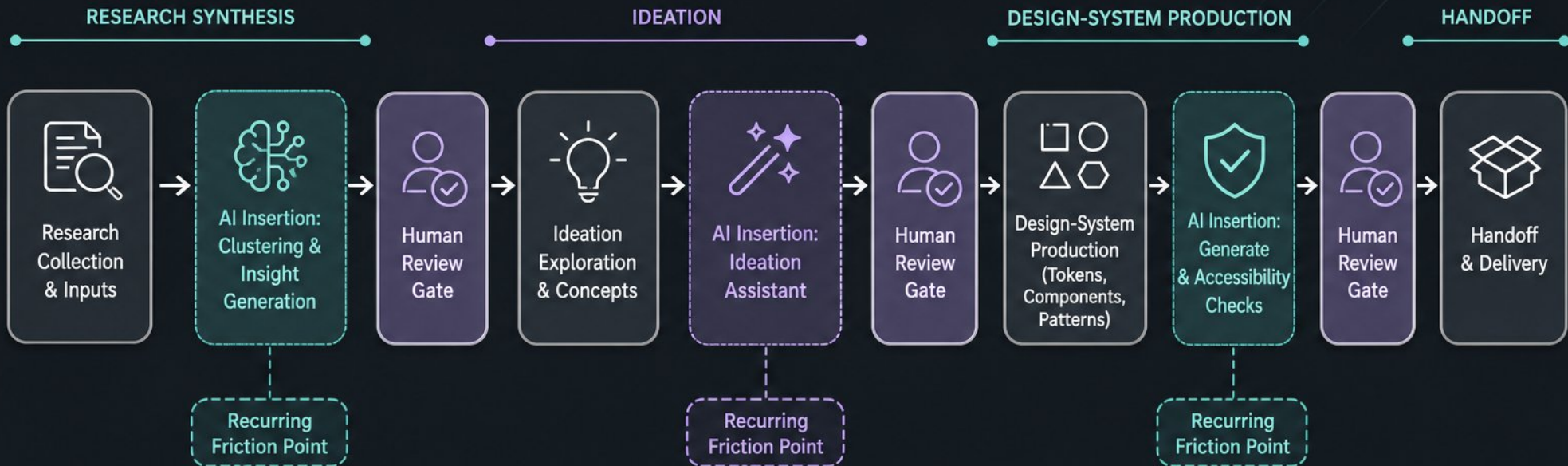


- Sign a recommendation report, risk register, go/no-go criteria, and documented evaluation record



Weighted Scorecard Matrix						
Criteria (Weights)		Tool A	Tool B	Tool C	Tool D	Tool E

Workflow Integration: Research Synthesis, Ideation, and Design-System Production



- Map the end-to-end workflow first, then place AI at recurring friction points
- Research synthesis: AI clustering and insight generation as a first pass only
- Ideation: AI output is raw material, not a finished solution
- Design-system production: generate against real tokens; accessibility checks before handoff
- Structured design-to-code pipelines keep artifacts (context, plan, state) for audit and recovery
- Quality control everywhere: human-in-the-loop review, bias checks, artifact versioning



Governance, Security, and Responsible AI Use



- Define approved workspaces, repositories, and input types before anyone generates



- Separate public marketing work from regulated flows: consent, payments, eligibility, clinical



- Platform terms assign output, but purely AI-generated work may lack copyright protection



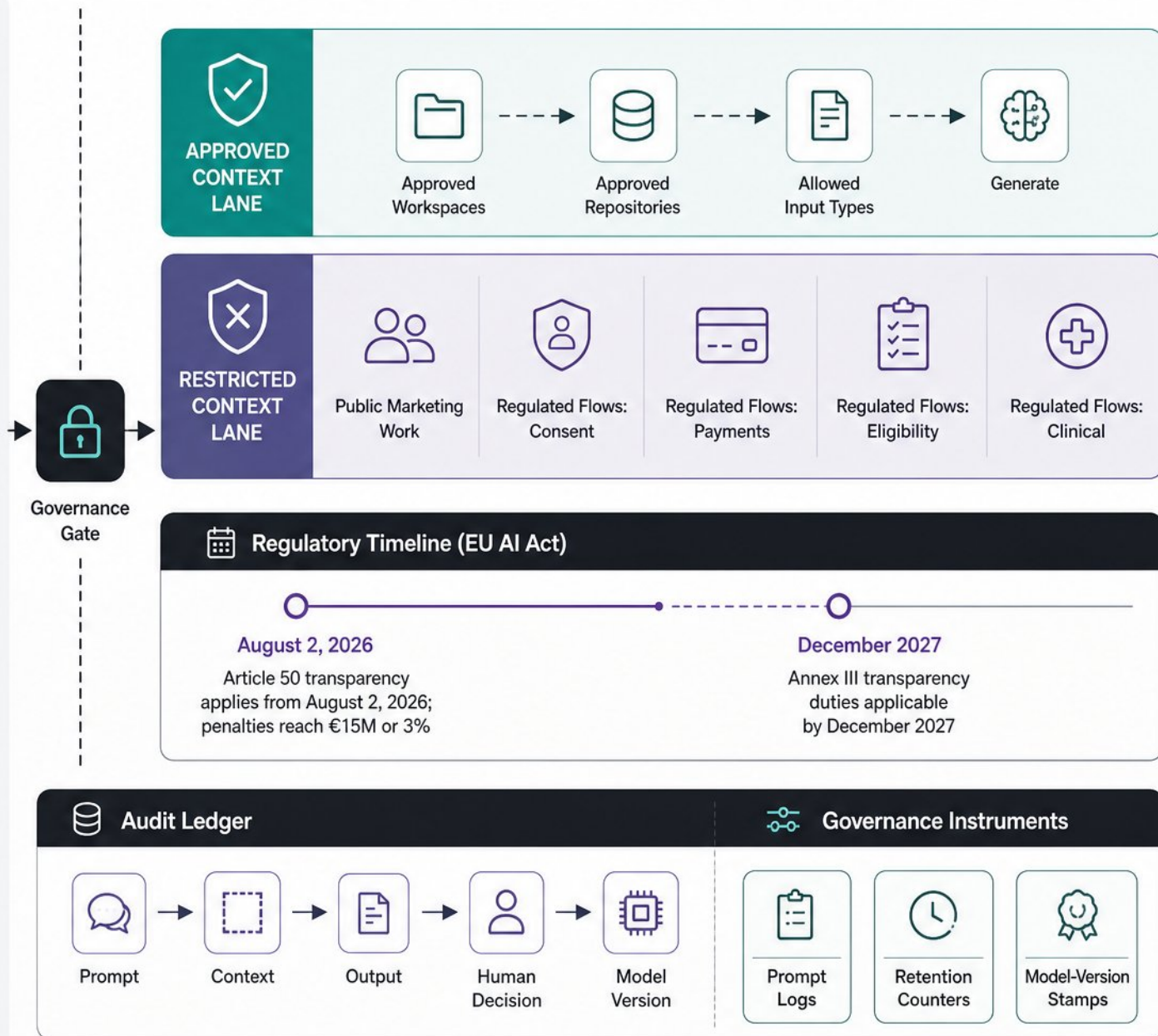
- EU AI Act Article 50 transparency applies from August 2, 2026; penalties reach €15M or 3%



- Protect accessibility invariants, honor user signals, and name human owners for output



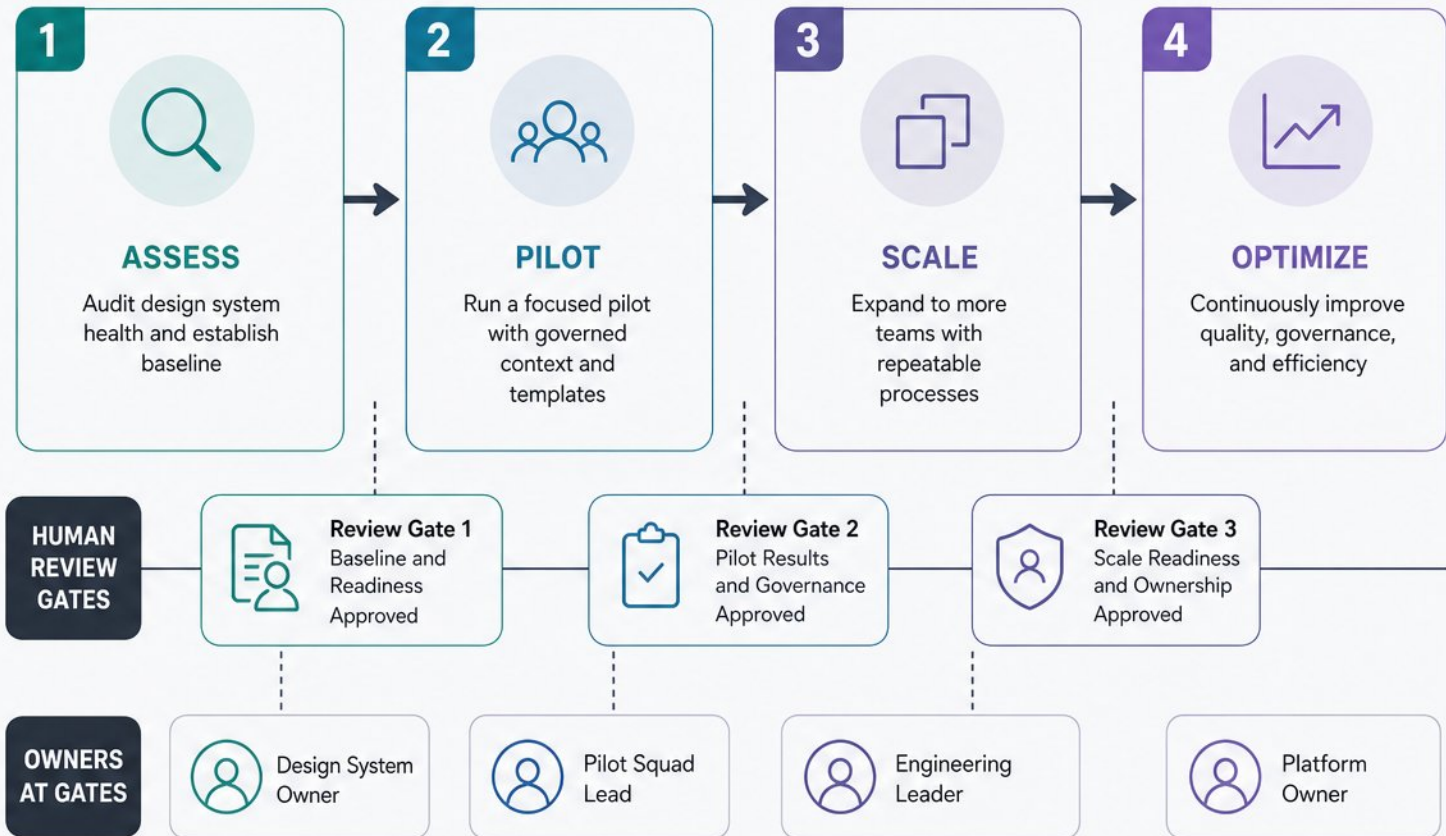
- Log prompts, context, outputs, human decisions, and model version — queryable and exportable



Implementation Roadmap and Organizational Adoption



- Audit design system health first — automating a broken system accelerates the problems
- Prerequisites: machine-readable tokens, component contracts, code mappings, accessibility metadata
- Governed context delivery via MCP servers and retrieval pipelines at generation time
- Pilot metrics track outcomes: handoff cycle time, defect escape rate, trace-link coverage
- Ownership must be explicit and durable; shared accountability fails after the pilot
- 30-60-90 day plan: one pilot squad, governance gates, trace IDs, templates, then scale



**FOUNDATION:
AI-READY
PREREQUISITES**



Practical Exercise: Build Your Scorecard, Requirements, and Workflow Map

1

Five exercises, one reusable deliverable:

- Scorecard: weighted criteria summing to 100, plus disqualification floors

Weight						

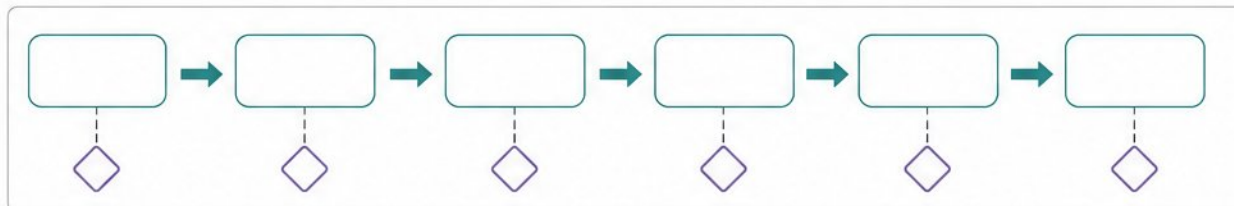
2

- Requirements: must-have functional, non-functional, and compliance items for one sample org

- _____
- _____
- _____
- _____
- _____

3

- Workflow map: AI insertion points from research through handoff, each with a review gate



4

- Governance: name top risks — data, IP, bias, lock-in, cost — with a concrete mitigation each

5

- Pilot plan: two real workflows, five scenarios including one adversarial, a time box, and go/no-go metrics

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Debrief: compare approaches, surface trade-offs, leave with a one-page plan you can reuse.

Resources, Standards, and Continuing Research



- Bookmark: WCAG 2.2 AA, W3C ML/AI accessibility draft, WCAG 3.0 (long-range), CAN-ASC-6.2:2025



- Security and governance: SOC 2 Type II, ISO 27001, ISO/IEC 42001, NIST AI RMF



- Track vendor changelogs, landscape roundups, and annual designer surveys



- Reassess on model releases, pricing shifts, vendor sunset, or regulatory dates



- Closing checklist: decision log, named owners, next review date, exit plan

WCAG
2.2 AA



W3C
ML/AI
accessibility
draft



WCAG
3.0
(long-range)



CAN-ASC-
6.2:2025



ISO/IEC
42001



ISO
27001



SOC 2
Type II



NIST
AI RMF



Scorecards



Policies



Pilot Results



INTERNAL KNOWLEDGE DRAWER



REASSESSMENT
TRIGGERS

- ✓ Model releases
- ✓ Pricing shifts
- ✓ Vendor sunset
- ✓ Regulatory dates



EXIT PLAN

- ✓ Decision log
- ✓ Named owners
- ✓ Next review date
- ✓ Exit plan



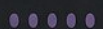
PROMPT LOGS



RETENTION COUNTERS



MODEL-VERSION STAMPS



PersonWise.

PersonWise • AI digital-human course platform



Scan the code or click anywhere to watch this course live, with voice Q&A

personwise.ai/t/dbdfa9d4/public