

Context & The Gap

1 Introduction: The Legal Mandate

- Article 14 of EU AI Act: Establishes “Human Oversight” as a cornerstone for high-risk AI governance.
- Goal:** Ensure AI systems are overseen by natural persons to prevent risks to health, safety, and fundamental rights.
- Key Requirement:** Oversight must be “Effective” (not just symbolic).

1. High-risk AI systems shall be designed and developed in such a way, including with appropriate human-machine interface tools, that they can be effectively overseen by natural persons during the period in which they are in use.

2 Gaps: From Legal Ideal to Practical Illusion

- Technical Illusion**
- Functional Opacity:** High-speed, opaque systems trap humans in passive roles.
 - "Strange Loop":** Overseers cannot explain outputs.
- Procedural Illusion**
- Undefined Triggers:** Lack of criteria for when to intervene or override.
 - Disconnected Loops:** Missing feedback channels for recording interventions or reporting system faults upstream.
- Cognitive Illusion**
- Automation Bias:** Over-reliance on machine outputs.
 - Cognitive Load:** Fatigue and complexity overwhelm human capacity (MABA-MABA).
- Institutional Illusion**
- Responsibility Gap:** Overseers bear formal liability but lack actual authority, resources, or training.
 - Culture Clash:** Profit and efficiency prioritized over robust safety.
- Societal Illusion**
- Product-Safety Logic:** Fundamental rights protection is narrowed down to technical product safety checks.
 - Asymmetry:** Public lacks transparency and access to decisions.

