



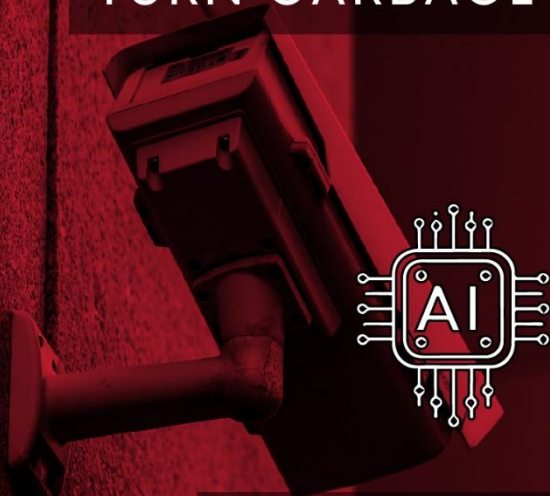
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# "SEE WHAT THE CAMERA SAW"

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**ISHIKAWA FRAMEWORK:  
EXPLAINING THE  
PROBLEMS OF THE VIDEO  
SURVEILLANCE INDUSTRY  
AND HOW COM-SUR  
SOLVES THEM**

## WELCOME



## PREAMBLE

Repeated failures in surveillance outcomes are rarely the result of human error. As quality pioneers such as Kaoru Ishikawa and W. Edwards Deming argued, persistent problems are almost always systemic. When applied to modern video surveillance, this perspective reveals why decades of technological advancement have not translated into proportional gains in safety, compliance, or intelligence.

Despite massive investments in cameras and storage, organizations continue to miss incidents, struggle with investigations, and fail to extract learning from past events. The Ishikawa framework exposes the root causes behind these failures.

## THE SIX ROOT PROBLEMS

1. An Ocean of Dark Data: Modern surveillance systems generate vast volumes of video that remain largely unreviewed. This unexamined footage constitutes dark data, containing safety risks, procedural deviations, and behavioural patterns that go unnoticed. Without systematic review, organizations cannot learn from near-misses or weak signals, ensuring that similar failures recur over time. COM-SUR addresses this by converting unreviewed surveillance footage into structured, time-referenced summaries that can be reviewed routinely rather than reactively. This makes large volumes of video auditable within practical timeframes, transforming dark data into visible patterns, near-misses, and recurring risks before they become incidents.

2. No Site-Specific Frontier Data for AI: AI systems improve only when trained on real, human-verified, site-specific data. Most surveillance environments rely on generic or synthetic datasets, which limits accuracy and relevance in real-world conditions. COM-SUR uniquely addresses this gap by generating structured, human-verified CCTV data as a natural outcome of routine review. As auditors assess summarised footage and log approvals, rejections, or

exceptions in the Daily CCTV Video Footage Auditing Chart, each entry becomes site-specific human feedback. This process creates a practical feedback loop for Reinforcement Learning from Human Feedback (RLHF) and Explainable AI (XAI), without the need for dedicated annotation teams, manual labelling, or additional operational overhead.

3. No SOP for Daily Auditing of Footage: Most organizations treat CCTV as “fit and forget,” leaving early warning signals and compliance gaps buried in unreviewed footage. Although conventional VMS, NVR, and DVR systems support playback, they were designed for incident retrieval, not systematic review. The need to decode millions of frames makes routine auditing slow and impractical at scale. COM-SUR removes this bottleneck by converting continuous video into structured, time-stamped visual moments, allowing reviewers to navigate a visual timeline instead of decoding raw streams. This makes routine auditing feasible at any frequency defined by the SOP, enabling practical, scalable review rather than occasional playback.

4. Non-Standard Incident Reporting: Surveillance reporting is typically ad hoc and inconsistent. Screenshots and informal notes may suffice for quick reference, but they do not scale across teams, audits, or regulatory processes. Without standardisation, insights remain siloed and unverifiable. COM-SUR addresses this by generating audit-grade, structured reports in familiar enterprise formats such as Word, Excel, and PowerPoint. This standardisation enables traceability, comparability, and institutional learning.

5. Storage, Bandwidth & Disaster Recovery Problems: Video data is heavy, costly to store, and often difficult to access reliably when one needs it the most. While compression reduces file size, it does not address the operational challenges of sharing, auditing, or recovering video. COM-SUR solves this through structured summarization, not compression. It generates lightweight, time-stamped visual intelligence designed for audit, reporting, sharing, and AI ingestion. By enabling teams to work with concise visual evidence instead of full video files, COM-SUR significantly reduces bandwidth demands, storage overhead, and data-exposure risk, while improving reliability during investigations, handovers, and disaster recovery.

6. No ‘MS Office’ for Surveillance Video: Most enterprise domains have standard productivity layers: documents have office suites, ERP has structured workflows, and email has standard clients. Surveillance video has none. Video management systems store footage, but they do not provide a standardised workflow for review, audit, investigation, and reporting. COM-SUR fills this gap by operating above storage systems, standardising how surveillance footage is actually used.

## FROM RAW FOOTAGE TO STRUCTURED INTELLIGENCE

Each of these root problems stems from the same underlying issue: surveillance systems capture reality but fail to convert it into actionable intelligence. COM-SUR addresses this by transforming raw footage into structured summaries that support review, compliance, investigation, and learning.



This is not a metaphorical transformation. It is a concrete shift from unmanaged video archives to structured, time-referenced intelligence artefacts.

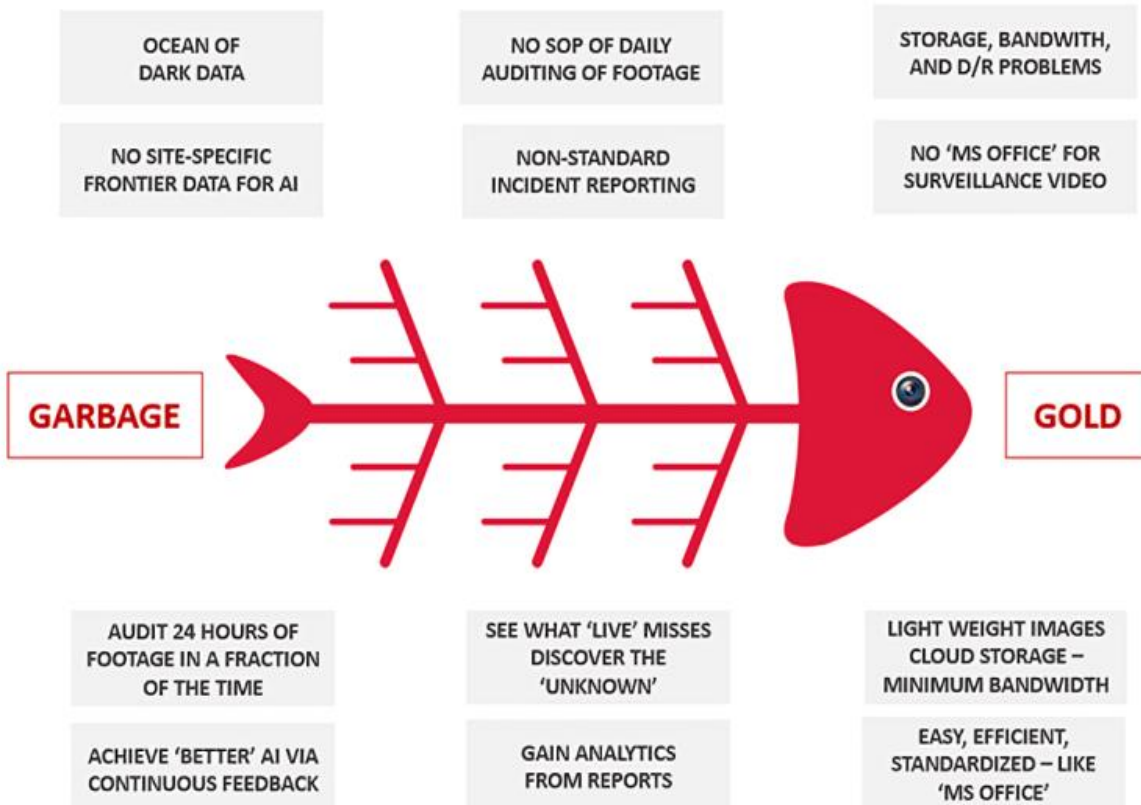
### CONCLUSION

The surveillance industry does not suffer from a lack of cameras; it suffers from gaps in process, workflow, and data utilization. The Ishikawa framework makes these systemic failures visible, and COM-SUR addresses them directly. COM-SUR's structured summaries support operational review, investigations, compliance, insurance, and audit workflows by providing consistent, time-referenced visual records. These summaries improve documentation quality, accelerate reviews, reduce ambiguity, and enable standardized reporting. Where required, they guide stakeholders to the relevant underlying footage without replacing original video or asserting evidentiary finality. Any organization that relies on video evidence for safety, compliance, operations, or investigations will ultimately require a structured surveillance-workflow layer. COM-SUR standardizes that layer. The contexts may differ, but the problem is universal.



## CCTV SHORTFALLS - FISHING FOR THE SOLUTION?

**USE  
CASES**



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