

Use case and maturity	Example tools	Job and source data	Human decision point	Failure consequence	Oversight	Auditability	Implementation dependencies	Policy and data environment
Report transcription and first-draft police, fire, and EMS reports Current in some products and agency workflows; local validation varies. Current operational	CLIPr ↗, Axon Draft One, Truleo, Abel. Axon Draft One, Truleo, and Abel are named for context only.	Convert authorized audio, notes, or structured incident inputs into a reviewable first draft. Sources can include body-camera or dash-camera audio, dictated notes, and approved incident fields.	The authorized report writer compares the draft with source material, edits it, resolves uncertainty, and approves the final report.	Omitted, invented, misattributed, or privacy-sensitive content can damage a record, an investigation, a patient record, or public trust.	Records owner plus operational, legal and privacy, security, labor, and clinical review where applicable.	Preserve the original source, draft and version history, user edits, timestamps, approvals, access events, and retention treatment.	Audio quality, speaker identification, terminology, identity and access, export workflow, retention, state and local forms, user training, and a tested manual fallback.	CJI only when CJI is handled; HIPAA only for regulated entities and information flows; NEMSIS and state ePCR rules for EMS; NERIS and state rules for fire; local public-records, discovery, evidence, and report policy.
911 call transcription, translation, and quality-assurance support Operational in some centers, emerging in others. Current operational	Prepared, Carbyne, Motorola CommandCentral Assist.	Render call audio as text, support language access, surface key terms, or assist post-call review. Sources include live or recorded emergency calls and approved call metadata.	A trained call-taker or reviewer confirms meaning and retains call-handling authority.	A mistranscription, translation error, or missed cue can delay or misdirect response.	ECC or PSAP operations, language-access owner, quality assurance, IT and security, legal and privacy, labor, and medical, fire, and law partners as appropriate.	Link outputs to the original audio, model and version, confidence or uncertainty, user action, corrections, and the call record.	Telephony quality, latency, approved languages, CAD interfaces, outage behavior, accessibility, staffing, and interoperability testing.	State 911 rules, local call-record retention, public records, privacy, accessibility and language obligations, and CJI or health data only where the actual flow triggers them.
Non-emergency diversion or AI call triage Pilot or emerging. Pilot and emerging	Aurelian, Prepared.	Classify incoming contacts or propose alternate response pathways using call content, location, history, and policy rules.	A qualified call-taker confirms call type and response path; emergency escalation stays immediate and visible.	Under-triage can delay emergency care or response; over-triage can consume scarce resources or escalate an encounter.	Executive sponsor, ECC or PSAP plus medical, fire, and law leadership, legal, equity and civil-rights review, quality assurance, and independent evaluation.	Record the input, recommendation, policy and version, override, final disposition, response time, error type, and subgroup performance where lawful.	Representative test data, clear exclusions, escalation, latency and outage controls, CAD mapping, protocol approval, and manual fallback.	State and local 911 authority, medical dispatch protocols, accessibility, public records, privacy, civil rights, and CAD governance.
CAD-assisted incident summarization or unit recommendation Pilot or emerging. Pilot and emerging	Hexagon HxGN OnCall Smart Advisor, Motorola CommandCentral, Versaterm Real-Time Intelligence.	Summarize event data or recommend response resources from call, CAD, unit, mapping, and policy data.	The dispatcher or incident authority confirms the summary and independently decides resource assignment.	Missing context or an unsuitable recommendation can expose responders or the public to harm and create inequitable service.	Dispatch leadership, field command, IT and security, legal, labor, quality assurance, and mutual-aid partners.	Retain source events, recommendation, model or rule version, dispatcher action, overrides, timestamps, and downstream changes.	Exact CAD configuration, data quality, real-time availability, interoperability, mutual-aid rules, geospatial accuracy, and resilient manual operation.	CAD and vendor contracts, 911 policy, CJI where present, public records, labor policy, mutual-aid agreements, and local dispatch authority.

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Fire-scene sensing, thermal-image assistance, or hazard detection Pilot or emerging; individual components may be operational. Pilot and emerging	Qwake C-THRU Navigator, Teledyne FLIR thermal imaging.	Identify heat signatures, structural or environmental patterns, or responder hazards from thermal, visual, sensor, building, or location data.	Incident command and trained personnel interpret the output against direct observation and established tactics.	False negatives can hide hazards; false positives can divert crews; overreliance can create life-safety risk .	Fire command, safety officer , training, IT and security, equipment owner, labor, and independent technical evaluation.	Store sensor source, device and model version, alert, user response, environmental conditions, failures, and maintenance and calibration records .	Ruggedization, sensor limits, smoke and heat conditions , connectivity, latency, calibration, protective-gear and workflow fit, training, and fallback tactics.	Department operating procedures, occupational safety , mutual aid, procurement, records, building and location-data rights, and applicable state fire standards.
EMS documentation and ePCR drafting Early operational use and pilots. Current operational	CLIPr ↗, ESO Auto-Generated Narrative, ImageTrend AI Assist.	Convert authorized speech or encounter notes into a reviewable ePCR draft or structured documentation suggestion. Sources can contain PHI, clinical observations, timestamps, and treatment details.	The treating or authorized clinician reviews the source, corrects the draft, confirms clinical facts and coding, and signs under local protocol .	An omission or invented clinical fact can affect continuity of care, billing, quality review, litigation, and patient safety .	EMS medical director , clinical quality assurance, privacy and security, records, billing and compliance, state EMS authority, labor, and IT.	Preserve the source, draft and edits, author and signature , access, model and version, exports, error reports, and retention per policy.	ePCR compatibility, NEMSIS and state validation, vocabulary, noisy environments, identity and access, PHI handling , downtime, training, and workflow timing.	HIPAA only where the entity and flow apply, state health privacy, NEMSIS plus state and local ePCR rules, medical-record retention , consent and access, and billing policy.
EMS clinical decision support, such as treatment or destination recommendations Emerging and high consequence. High-risk	Corti, an emerging example at the dispatch and triage edge. No other tool is independently validated for this high-consequence row.	Produce a recommendation from symptoms, vitals, history, protocol data, and possibly device inputs.	A qualified clinician understands the basis, applies medical direction and protocol, and retains the treatment and transport decision .	A wrong or delayed recommendation can cause patient harm , inequitable care, or protocol deviation.	Medical director , state EMS authority, clinical governance, privacy and security, Food and Drug Administration (FDA) and regulatory counsel as needed, human-factors review, and independent validation.	Retain inputs, the basis available to the clinician, recommendation, version, clinician action and override, outcome measures, adverse events , and protocol changes.	Intended-use analysis, representative clinical validation , device and data reliability, protocol mapping, explainability sufficient for the decision owner, escalation, and a manual care pathway.	State EMS scope and protocols, medical direction, HIPAA where applicable, FDA clinical decision support and device analysis, health privacy, quality systems, and clinical liability.
Disaster imagery triage and damage assessment Deployed in the named FEMA inventory use case; local maturity varies. Current operational	Esri ArcGIS, Maxar, Planet.	Prioritize imagery likely to show damage or debris so analysts can investigate and recommend findings. Sources include authorized aerial, satellite, or geospatial imagery and event metadata.	A trained analyst investigates flagged imagery and makes or recommends the assessment.	Missed damage can delay aid or situational awareness; false flags waste analyst time or distort priorities.	Emergency-management program owner , geospatial and data owner, privacy and civil-rights review, security, and a quality and evaluation team.	Retain imagery provenance , model and version, priority score, analyst review, correction, final recommendation, and performance by event and condition.	Imagery rights and timeliness, geolocation, disaster-condition drift, network throughput, analyst capacity , mapping interoperability, and alternate assessment methods.	FEMA or program rules where applicable, state and local emergency-management authority, privacy, records, geospatial licensing , critical-infrastructure sensitivity, and grant conditions.

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Planning, staffing, or resource-demand forecasting Operational in some analytical settings, emerging elsewhere. Current operational	Darkhorse Emergency, Deccan ADAM and LiveMUM.	Forecast demand or propose resource positioning from historical incidents, schedules, weather, events, geography, and operational data.	An accountable supervisor evaluates assumptions and makes the staffing or allocation decision.	Biased or stale data can under-resource communities, increase workload, or reduce response capacity.	Operations, data governance, labor, legal and civil-rights review, finance, community oversight where required, and independent evaluation.	Record the training window, features, exclusions, version, forecast, decision, overrides, error by geography, time, and group where lawful, and drift.	Data completeness, changed service patterns, rare events, mutual aid, staffing constraints, labor agreements, interpretability, and regular recalibration.	Labor agreements, civil rights, public records, budget and procurement, local allocation policy, and privacy limits on source data.
Policy, procedure, or knowledge search assistant Deployed or piloted in bounded environments. Current operational	Lexipol Policy Assistant, PowerDMS.	Retrieve or summarize approved policy, training, equipment, or emergency-plan material from a controlled corpus.	The responder or staff member opens the cited source and follows the current authoritative policy, not the summary alone.	A stale or fabricated answer can produce a policy violation, unsafe action, or delay.	Policy owner, training, records, IT and security, legal, and content administrators.	Log the source set and version, query, retrieved citations, answer, user feedback, corrections, and content update history.	A controlled corpus, permissions, citation fidelity, version control, update ownership, offline access, and a direct route to authoritative documents.	Records and retention, access controls, sensitive security information, copyright and licensing, local policy authority, and disclosure rules.
Face recognition or other biometric identification used to support enforcement Operational technology with high rights risk and variable legal authority. High-risk	Clearview AI, NEC, Idemia. Named for context only, not endorsed, given the wrongful-arrest and civil-rights record in this category.	Produce candidate matches or identity signals from images, video, or biometric templates.	A trained, authorized person treats output as an investigative lead, uses corroborating evidence, and follows jurisdictional policy.	False matches can lead to wrongful stops, searches, arrests, surveillance, or disparate harm.	Legal and civil-rights review, privacy, executive command, prosecutor where relevant, security, records, community oversight, and independent performance review.	Preserve query authority, source image, candidate list, algorithm version and threshold, examiner action, corroboration, final action, access, and deletion and retention.	Image quality, thresholds, watchlist provenance, demographic performance, examiner training, security, disclosure, and an appeal and correction process.	Federal, state, and local law, warrants and policy, civil rights, biometric privacy, public records, evidence and discovery, retention, CJI where handled, and procurement terms.
Predictive enforcement or autonomous incident command and dispatch Poorly validated for replacing accountable judgment. High-risk	No established, independently validated named tool. Predictive-policing products such as PredPol and Geolitica were discontinued or dropped amid accuracy and civil-rights concerns.	Predict where or whom to target, assign enforcement attention, or direct high-consequence response from historical and live data.	Accountable human and legal authority cannot be hidden behind a score. Any proposed operational use needs evidence and controls specific to that decision.	Feedback loops, biased allocation, unsafe tactics, missed emergencies, due-process harm, and inability to contest or reconstruct the decision.	Executive command, legal and civil-rights review, clinical or fire authority as applicable, labor, community oversight, independent evaluation, security, and elected or governing authority where required.	Full data lineage, assumptions, model and version, recommendation, human rationale, overrides, downstream actions, subgroup and geographic impact, incidents, and suspension history.	High-quality representative evidence, causal limits, drift management, explainability, appeal, safe interruption, clear authority, and independent validation. Public evidence of safe autonomous replacement is not established.	Constitutional and civil-rights law, state and local law, 911 and medical and fire authority, public records, evidence, labor, procurement, surveillance rules, and agency policy.