

ILAS

Intelligent Lead Assessment Service

Transforming data into human narratives of risk.
Proactive. Contextual. Prioritised.



Digital
Intelligence

BAE SYSTEMS

What is ILAS?

ILAS is augmented intelligence. It is a new technology that reasons at a breadth and scale beyond human capability, making sense of all your data to determine what is happening in the real world. By replicating expert human tradecraft, it performs the role of multiple analysts, building pictures of risk to underpin decision making.



The ILAS effect

Current Analyst Challenges:

Analysts can be overwhelmed -
making them reactive not
proactive

Emerging risks are often
overlooked - missing
opportunities for early
intervention

50% of reports result in no action
– but can still hold significant
contextual value

Fundamental
Analyst Need

ILAS provides:

Constant Overwatch

Proactive
Long Tail
Sub-threshold
360° Analysis

Risk Identification
and Prioritisation

Emerging
Risk Detection

Enabling analysts to have:

Accelerated Situational Awareness

Driving contextual risk-based decision making

The next generation of continuous automated risk analysis and management

Critical ILAS Capabilities - Overview

Capturing Sub-threshold Indicators

Small things really matter, they can be clues that suggest a risk situation is developing. ILAS spots these, even at an early stage, and assembles them automatically into dynamic risk pictures for analyst review.

Indirect Risk

Risk doesn't always originate from the subject you're looking at. Their social connections, the places they visit and the people who they interact with are often just as important. ILAS takes this broader view of risk into account and sets out a clear narrative for the analyst.

360° View of Risk

People's lives are complicated and rarely fit into neat themes or definitions. ILAS captures full 360° narratives of each situation, all the relevant risks that may be present, each person involved and how they all interconnect, for analyst review.

Complex Inference

Groups of people can share similar behaviours and characteristics. However the context is critical to understanding their relevance. ILAS makes these nuanced inferences automatically to build risk pictures as a human would, but proactively and at machine speed.

Critical ILAS Capabilities I

Capturing Sub-threshold Indicators

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Example Use Case

Vulnerability to exploitation: A child ends up supplying drugs as part of a county line. Often the authorities have had sight of them for a while, but the emerging picture was not assembled.

They have had periods of truancy, have been reported missing, have become involved in anti-social behaviour, started to be associated with drug users and finally after all this they have been recruited into a county line. But had this pattern been spotted as emerging, early intervention could have broken the cycle and prevented it. ILAS identifies such early intervention opportunities automatically and sets out the full explanation.

Critical ILAS Capabilities 2



Indirect Risk

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Example Use Case

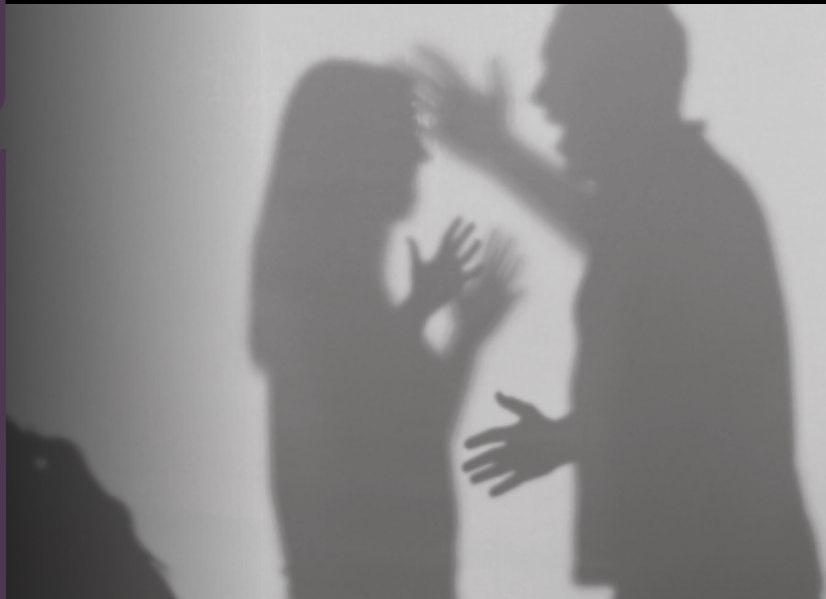
Access to firearms. A firearms license holder has a daughter who is aged 16. She has a boyfriend who is 18 years old.

Police intelligence suggests that he is becoming involved in a county lines gang that is trying to source a weapon. The link between potential offender and firearm is protracted, but critical to spot. ILAS makes and evaluates these links automatically.

Critical ILAS Capabilities 3

360° View of Risk

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Example Use Case

A woman is being abused by her partner, who is connected to an OCG; the child is sexually abused by a member of the OCG, and being groomed for a county line; the woman is buying stolen goods as part of a burglary series.

Understanding this whole situation, and how best to intervene is a major challenge that can take days to compile manually with existing systems. ILAS builds and maintains a comprehensive picture of all such situations automatically in near real time.

Critical ILAS Capabilities 4



Complex Inference

Groups of people can share similar behaviours and characteristics. However the context is critical to understanding their relevance. ILAS makes these nuanced inferences automatically to build risk pictures as a human would, but proactively and at machine speed.

Example Use Case

Two children may share a similar profile in terms of missing episodes, truancy from school and involvement in anti-social behaviour. There can however be distinct differences in their behaviour that isn't immediately apparent without digging deeper. Take for example their associates, and the activity that those people are involved in. A child that displays such characteristics and is also associating with adults that supply drugs may be becoming part of a county line.

A similar child may be associating with other children that are often missing but believed to be being exploited for sexual gain, exposing this child to that risk. ILAS is able to navigate through these complex interconnected situations and present the analyst with a clear view of what may be happening in the real world, allowing for a tailored response to meet the child's unique situation and needs.

Realising Benefits

Intelligence
analysis

Operational
teams

Tasking

What ILAS enables:

- Automated assembling of all information into prioritised risk situations
- Relevance of all new information assessed
- Reassessment of what we already know in context of all new information on arrival
- All risk situations fully explainable and linked back to source systems
- Single prioritised view of all risk situations, supporting assessment of where best to deploy finite resources
- Full 360° view of all risk situations maintained up to date to support assessment of how best to intervene
- Emerging risks flagged for lower impact, early intervention and harm prevention

How benefits are realised:



Reduced risk

Reduction in likelihood that threat and harm will go unnoticed; more effective tasking



Increased efficiency

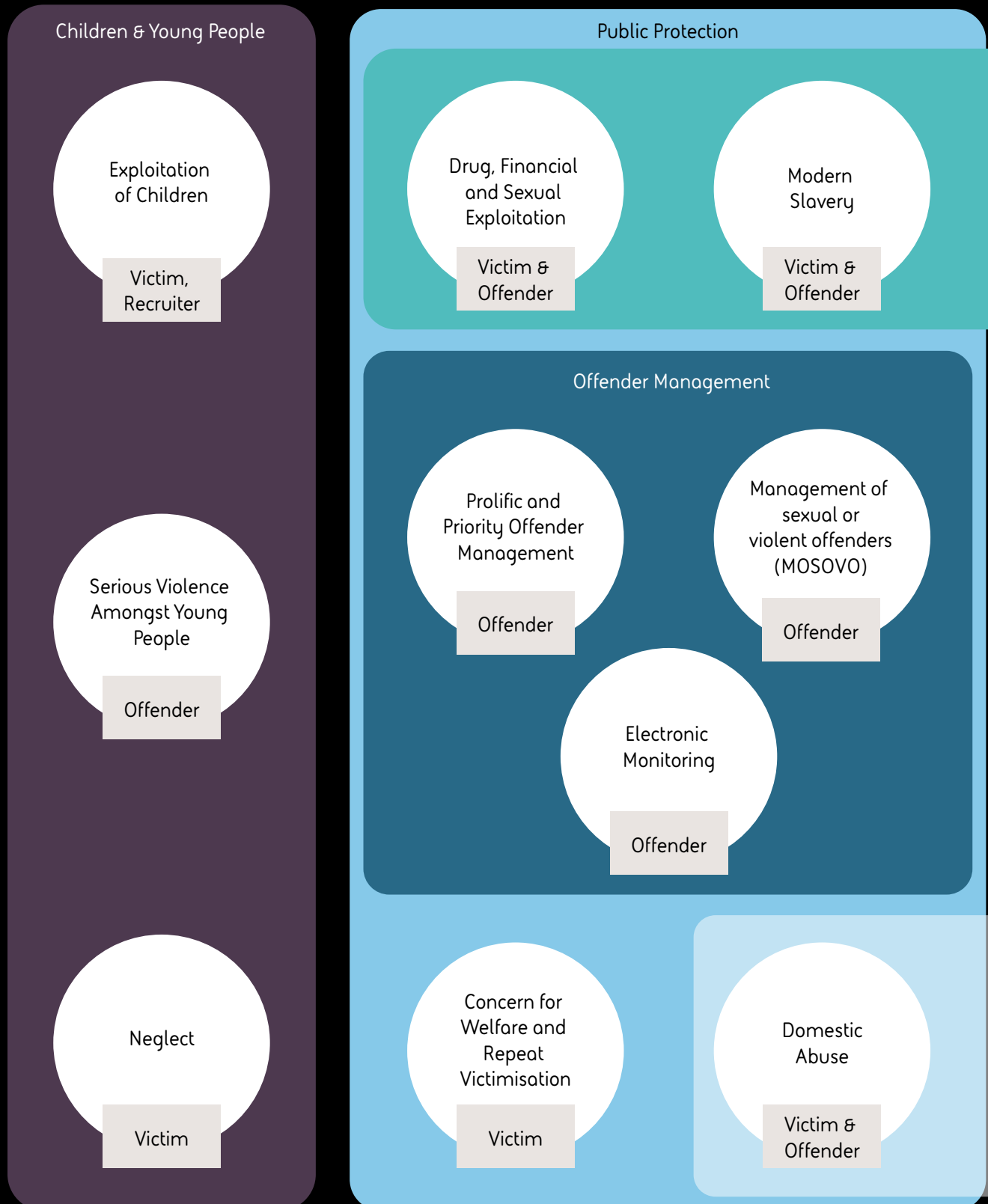
Faster and more efficient intelligence analysis, evaluation and tasking



Early intervention

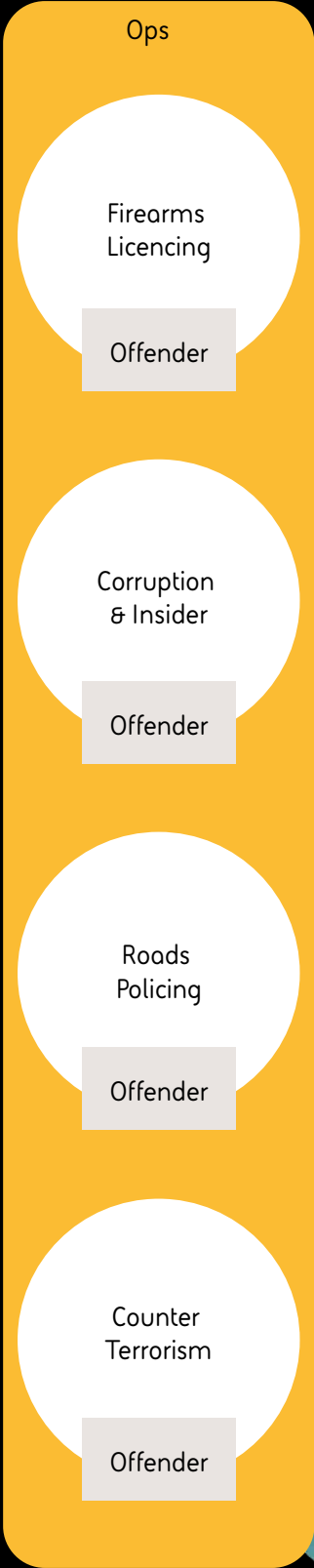
Systematic identification of early intervention opportunities to limit harm

ILAS Tradecraft Domains in Policing

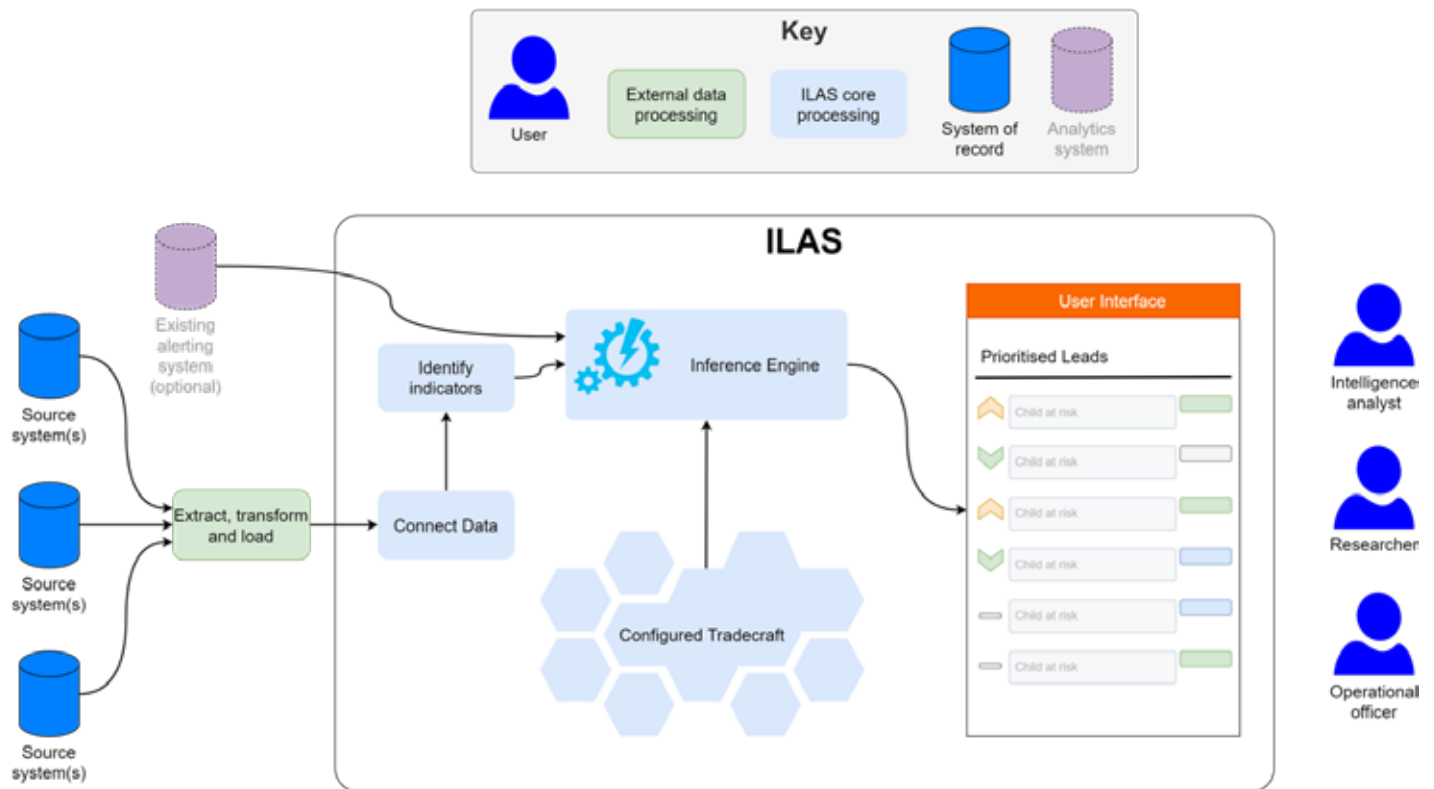


Key	
Victim	Victim Focussed
Offender	Offender Focussed
Victim & Offender	Two views. One offender focussed and one victim focussed

- Domain map, relationships and groupings are indicative



ILAS Technical Components



ILAS takes in information from existing systems to analyse their data. ILAS connects and cross-references it before identifying indicators of risk. ILAS then uses its inference engine configured with analyst tradecraft to assemble a view of what's going on in the real world.

Real world situations are prioritised and their confidence assessed using an advanced probabilistic engine. The result is a prioritised list of the most important, fastest changing and emerging risks in the data, presented to analysts, researchers and operational teams in an understandable and interrogable way for their assessment of decisions and action.



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We are Digital Intelligence

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