

LETSCROWD tool presentation cards

LETSCROWD - Law Enforcement agencies human factor methods and Toolkit for the Security and protection of CROWDs in mass gatherings - aims to develop an integrated system for crowd protection during mass gatherings, by providing the following to security policy practitioners:



A **dynamic risk assessment methodology** for the protection of crowds during mass gatherings centred on human factors in order to effectively produce policies and deploy adequate solutions.

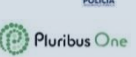
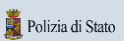
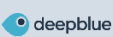


A set of **human centred tools for Law Enforcement Agencies (LEAs)**, including real time crowd behaviour forecasting, innovative communication procedures, semantic intelligence applied to social networks and the internet, computer vision techniques.



A **policy making toolkit** for the long-term and strategic decision making of **security policy makers**, including a database of empirical data, statistics and an analytical tool for security policies modelling.

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LETSCROWD Dynamic Risk Assessment (DRA)

The dynamic assessment of risks is an essential element of any decision support tool aimed at improving the situational awareness while protecting mass gathering events against **High Impact Low Probability (HILP)** security risks. The proposed **DRA** approach bases its reasoning on the processing of **Weak Signals (WS)** and can be summarised in the following steps:

1. **Continuously collect** the WSs potentially representing **precursors of threats**;
2. **Analyse** each collected WSs, and verify if, the WS alone or a **Suspicious Pattern (SP)** generated by correlating/grouping other existing WSs, can represent a more significant precursor of a threat;
3. **Present** the potential detected precursor to a security operator for evaluation;
4. **Re-assess the risks** for the considered target accordingly.

DRA processes WSs/SPs using both **fully- automatic** and **expert-driven** approaches on the basis of a **significance** value assigned to each WS/SP that takes into account the **reliability** and **credibility** of the source that generated the WS and the **time** at which it has been collected. Then, **Risk Level** can be computed using escalation approaches allowing LEAs to put in place the most suitable **mitigation** measures.

IN SHORT: Situational awareness to dynamically assess security risks

WHO IS THIS TOOL FOR?

LEA operators monitoring events and activities during mass gathering events.

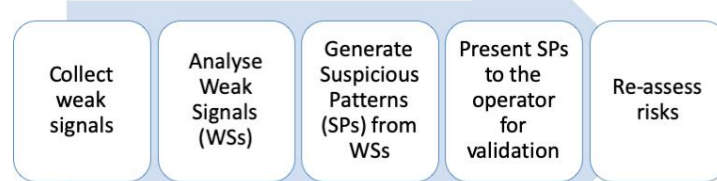
WHAT IS THE ADDED VALUE OR BENEFITS FOR LEAS OPERATORS AND OTHER STAKEHOLDERS?

DRA has the following advantages over more traditional approaches:

- it searches for **out-of-the-ordinary behaviours**;
- reduces the number of **false alarms**;
- does not require large statistical samples and is sufficiently simple to run in **real-time**.

WHEN SHOULD THE TOOL BE USED?

DRA is effective in the **pre-event phase** in which 1) risks are evolving and can be confused due to the fact that weak signals, individually, cannot be normally identified as confirmed precursors of a given threat; 2) LEA's operator can evaluate risks without the pressure of the crowd at the event's venue evaluating possible options and evolving scenarios.



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