



STRIAD ↑

# Innovation in Child Safeguarding

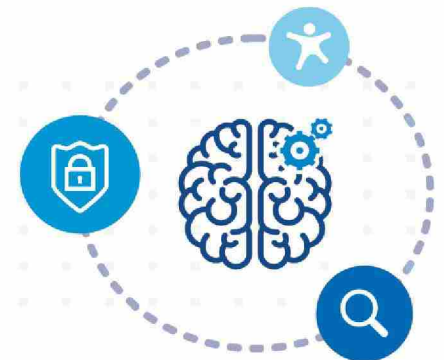
By applying machine learning to big data, Project CESIUM advances risk identification and assessment to better combat child exploitation.

# CESIUM

## Innovative Technology for Child Safeguarding

CESIUM's state of the art technology will:

- Enable the identification of children vulnerable to exploitation and assess their risk of harm
- Identify and assess the risk of persons exploiting children in the community
- Increase efficiency and essential insights for safeguarding professionals
- Strengthen *partnerships* and shared data insights





## Child Exploitation is a Priority

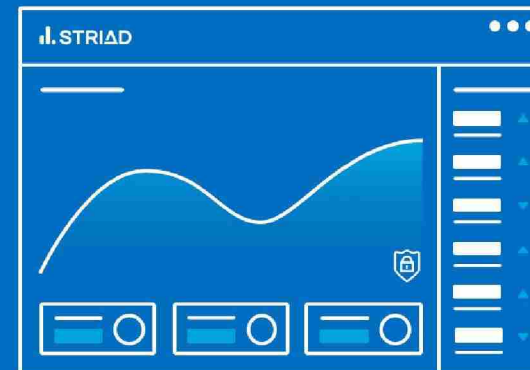
The National Crime Agency report and the Children's Commissioner recognise that the true scale of children and young people being abused and exploited is difficult to determine and remains a clear intelligence gap. We do not know the real number of those affected and a large number of young people remain hidden without any support.

The Children's Commissioner for England in 2018 warned that up to 30,000 to 50,000 young people could be affected in Britain by county lines only, without taking into account other types of children exploitation.

## Our Approach

CESIUM will empower STRIAD<sup>1</sup>, Trilateral's cloud-based data-driven risk assessment platform, with disruptive algorithms built via a co-design approach and privacy-by-design and data ethics best practice.

To ensure that CESIUM is effective and fit-for-purpose, Trilateral Research has engaged across the safeguarding network throughout the UK. Activities in CESIUM are being shared with the data analytics workstream of the National Police Chief's Council (NPCC) so as to complement their current approach.



## Partners

Lincolnshire Police, has joined in the co-design process, and will be early adopters of the new solution which will support their approach to child safeguarding.

CESIUM is also supported by NWG Exploitation Response Unit – a charitable organisation formed as a UK network of over 14,500 practitioners who disseminate information through their services, to professionals working on the issue of child sexual exploitation (CSE) and trafficking within the UK.



It is vital that policing embraces the development of new technologies that can improve effectiveness and efficiency. Data Analytics is one such area where we can undoubtedly be doing more to protect the most vulnerable in our communities, making better use of data already available to us. It is however, unreasonable to expect every individual police force to establish their own data analytics capability, given the levels of investment that are required, so public-private partnerships need to be explored. CESIUM and the engagement this project affords Lincolnshire Police with Trilateral is one such example of that. It is vital, however, as the National Police Chiefs Council lead for Data Analytics that the principles of our strategy are followed by all forces across England and Wales and at the heart of this sits the ethical design and delivery of data analytics projects. The 'ethics by design' approach that Trilateral have brought to this project has been really encouraging and we have further plans now to provide assurance through scrutiny from the West Midlands Independent Data Ethics Committee.

*Chris Todd – NPCC Data Analytics Lead  
West Midlands Police*

## Project Highlights

### Leading the way in protecting the most vulnerable – interview with Chief Superintendent Jon McAdam from Lincolnshire Police

Jon McAdam is Temporary Chief Superintendent at Lincolnshire Police currently working as Area Commander for the West area of the County overseeing serious crime investigations, response policing and neighbourhood policing. Prior to taking up this role, he was working as

March 17, 2020

### Combating child exploitation with ethically designed technology

Government services throughout the UK gather more data than the various agencies can process, leaving them wondering who might be slipping through the cracks from the lack of ability to analyse it. When safeguarding children disconnects in the data kept

January 9, 2020

### INNOVATE UK funded project will develop AI tools to prevent and combat child exploitation

Innovate UK has funded Project CESIUM, led by Trilateral Research in partnership with Lincolnshire Police and NWG Exploitation Response Unit to advance risk assessment practices in public and private sector organisations by applying machine learning techniques to the analysis of

October 11, 2019

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