

STEALTHPATH
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IMPERIAL
Centre for Active Resilience
and Security (CARS)

1 June 2026

StealthPath to work with Imperial College London on collaborative research for trusted data for critical infrastructure

Critical infrastructure systems across water, energy, and transport generate operational data that underpins safety and resilience decisions. As these environments grow more complex, the question of whether operators can fully trust the integrity of that data becomes increasingly important. No peer-reviewed methodology currently exists for combining different analytical approaches to assess data reliability in these settings.

StealthPath and Imperial College London (Imperial) have established an initial phase of collaborative research to address this challenge following substantive discussions and demonstration of the platform at Imperial. The programme, led by the Centre for Active Resilience and Security (CARS) within the Department of Civil and Environmental Engineering at Imperial, will investigate whether a dual dataset approach — combining knowledge graph and time-series analysis — can provide more reliable anomaly detection and source attribution than either method alone. The Scope of Work was developed jointly by both parties.

The programme draws on expertise from across Imperial, with academics spanning cyber security, transport systems, water infrastructure, environmental engineering, and data analytics contributing to the research design. StealthPath is funding the programme and contributes its operational monitoring platform and research leadership through Alexander Kingston, who serves as Research Lead. An Imperial Research Fellow will support the programme for its duration. The programme will produce a Technical Validation Report as its primary deliverable.

This initial phase is designed as the foundation for a longer-term research partnership. Both parties intend that the initial phase will build the evidence base for externally funded research programmes under Phase 2, which will involve stakeholder engagement with UK infrastructure operators, longitudinal data collection, peer-reviewed publication, and joint funding applications.

Professor Washington Yotto Ochieng, CBE EBS CEng FREng FCGI

*Head of the Department of Civil and Environmental Engineering, Imperial College London;
Director, Centre for Active Resilience and Security*

"Critical infrastructure operators depend on reliable operational data to support safe and resilient decision-making. This programme brings together expertise from across Imperial and StealthPath to investigate whether combining knowledge graph and time-series approaches can provide a stronger basis for anomaly detection and source attribution in increasingly complex infrastructure environments."

R. Andrew Kingston

President and Chief Executive Officer, StealthPath

"The programme that Professor Ochieng's team and our Research Lead have defined together reflects both the importance of the problem and the rigour needed to investigate it properly. Phase 1 is the beginning of what we expect to be a sustained research partnership."

Notes

About the Centre for Active Resilience and Security (CARS)

CARS is an Imperial Centre of Excellence and the flagship initiative delivering the 'Resilient Society' strand of Imperial's academic strategy. Hosted by the Department of Civil and Environmental Engineering, CARS works with academics, industry, government, and broader society to build a secure and resilient society to address the increasingly occurring and intersecting threats in cyber, biological, environmental, physical and social domains through integrated approaches to infrastructure resilience, cyber security, and other related areas. <https://www.imperial.ac.uk/resilience-centre/>

About StealthPath

StealthPath, based in Reston, Virginia, develops passive OT cybersecurity platforms for critical infrastructure. The StealthCommand platform delivers network discovery, network topology, asset inventory, Zero Trust maturity assessment, persistent recording, and continuous anomaly detection from a single air-gapped architecture. No cloud dependency. No network modifications. No specialized personnel required. Deployable by the operator already on site. The platform is protected by 27 patent assets (12 granted, 15 pending). www.stealthpath.com

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