ACCEPT:

Addressing Cybersecurity and Cybercrime via a co-Evolutionary aPproach to reducing human-relaTed risks

Basic Information

EPSRC Human Dimensions of Cyber Security (HDoCS) 2016

£1.1m (funding amount £881k)

April 2017 – March 2019 (further extension expected)

18 researchers from 7 institutions working in 5 disciplines: Computer Science, Crime Science, Business, Engineering, Behavioural Science

http://accept.cyber.kent.ac.uk/

Consortium

Stakeholders Group

Advisory Board

Overall Aim

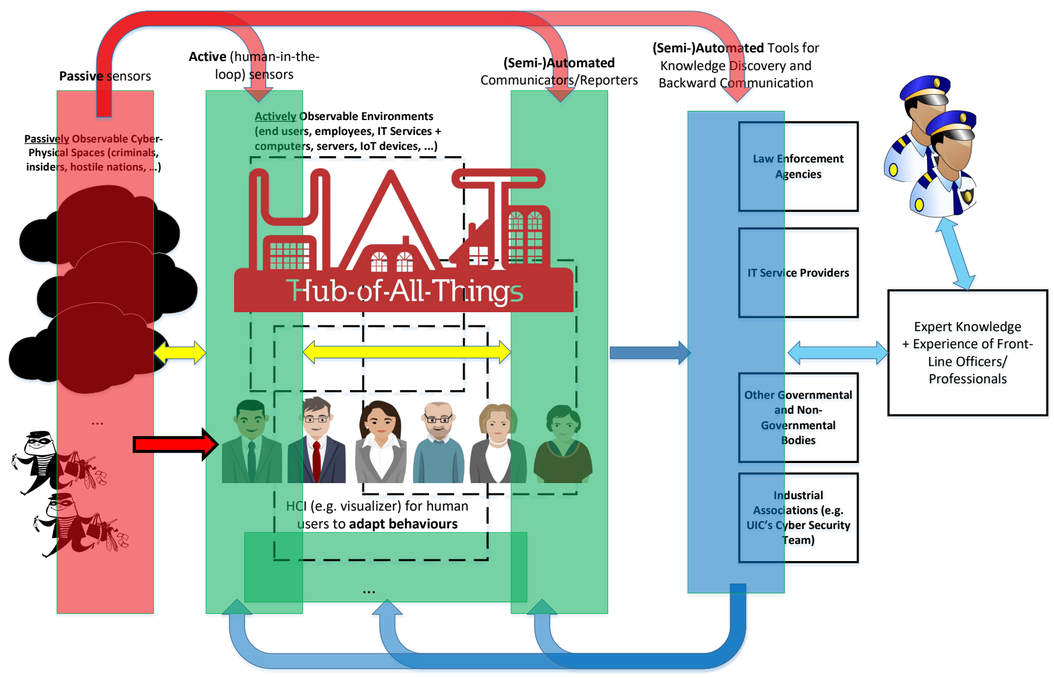
To develop **a socio-technical framework and associated software tools** that can help to:

- **analyse the technological/behavioural co-evolution of cybersecurity/cybercrime ecosystems, and**
- **influence behaviours of a range of actors to reduce human-related cyber risk in the ecosystems.**

Approaches

1. ***Theory-informed***: Incorporate theoretical concepts from social, evolutionary and behavioural sciences which provide insights into the co-evolutionary aspect of cybersecurity/cybercrime ecosystems.
2. ***Evidence-based***: Draw on extensive real-world data from different sources on behaviours of individuals and organisations within cybersecurity/cybercrime ecosystems.
3. ***User-centric***: Develop a framework that can provide practical guidance to system designers on how to engage individual end users and organisations for reducing human-related cyber risks.
4. ***Real world-facing***: Assess the effectiveness of the framework through user studies.

Socio-Technical Framework



Use Cases

- **Use Case 1: Location Privacy**
  Human-related **privacy** risks in the **cyber-physical** world
- **Use Case 2: e-Fraud**
  Human-related **security** risks to scams in the **cyber-physical** world
- **Use Case 3: Human-as-a-Security-Sensor (HaaSS)**
  Feedback-enhanced security event reporting by human users

Work Plan

- **WP1: Socio-Technical Framework**
- **WP2: Design and Development of Software Tools**
- **WP3: Validation through Use Cases**
- **WP4: Project Management & Stakeholder Engagement**

Contact Us

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