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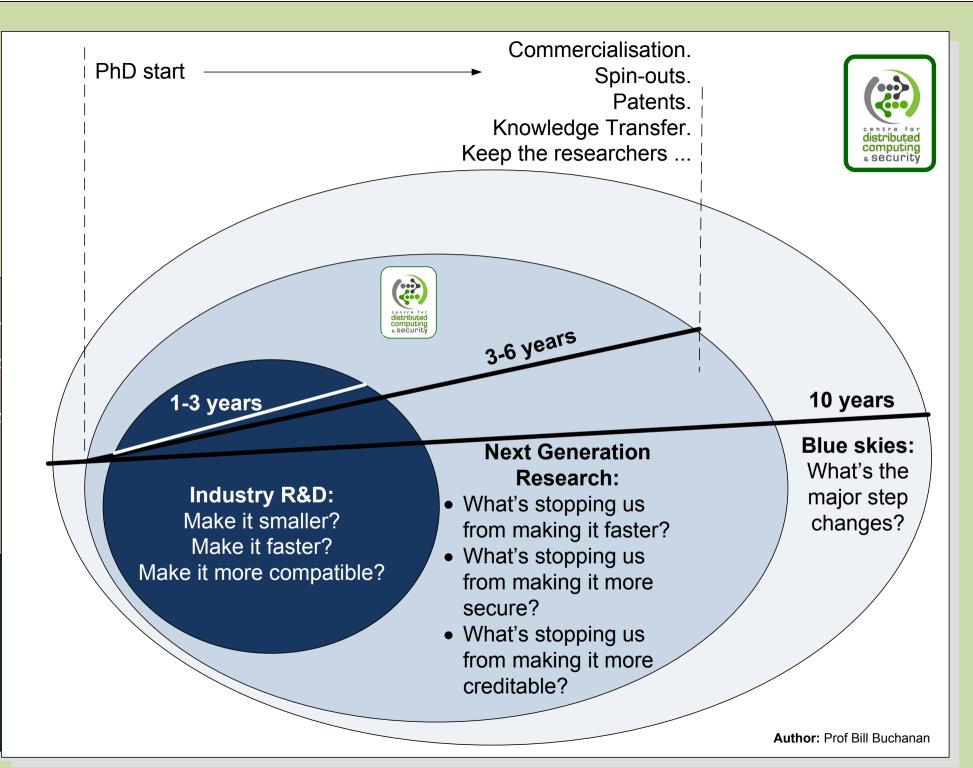
Current activities: Digital DNA, Performance Evaluation of Security, Oblivious Transfer Methods ...

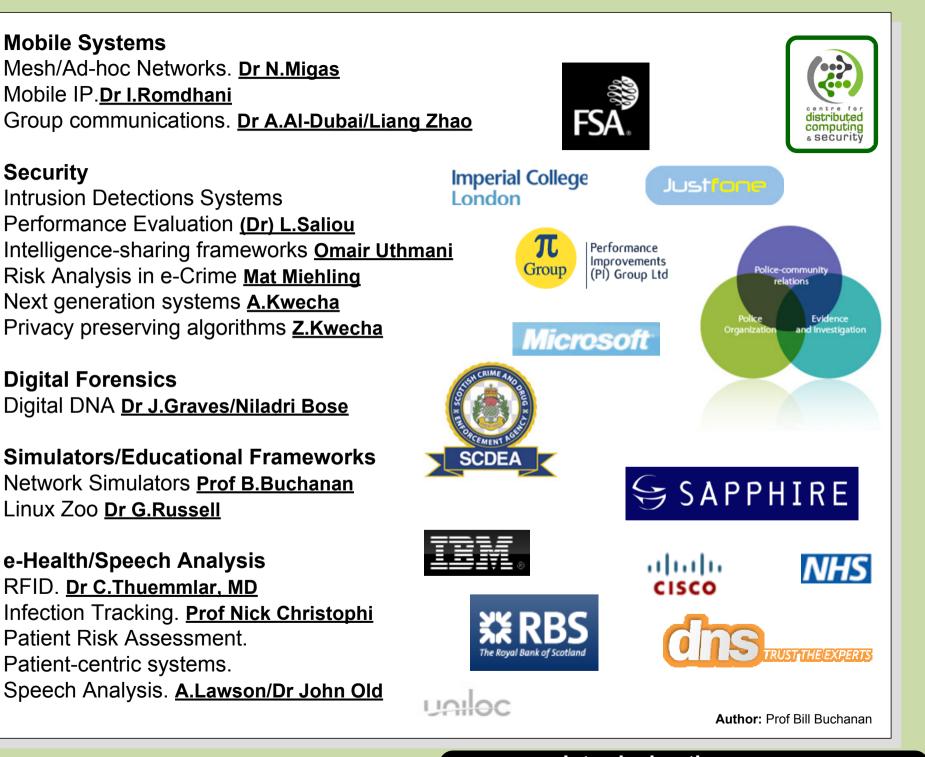


Prof Bill Buchanan

Leader, Centre for Distributed Computing and Security

http://www.cdcs.soc.napier.ac.uk/



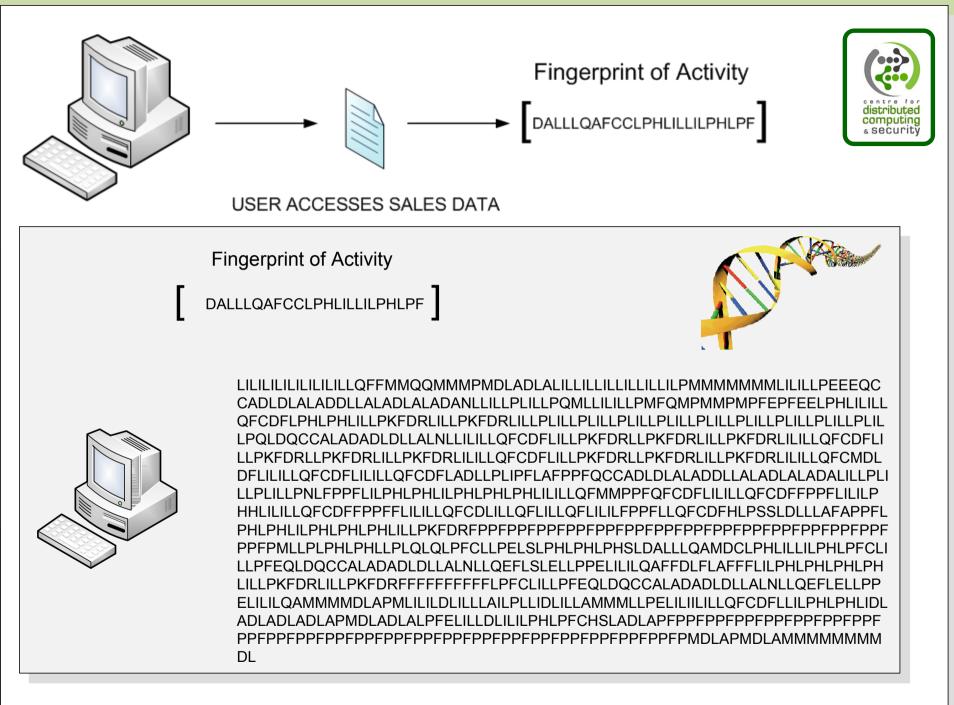


Introducing the group...



| | Existing Digital Evidence is generally not fit for purpose Legacy Not designed for current needs | *Digital DNA" conceived as a new form of metadata: Digital Forensics Auditing/Compliance Monitoring user/process interaction Provides SIEM vendors with technical edge |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Digital DNA Dr Jamie Graves | Unique Metadata Collection and Analysis Suite Complete, Accurate, Authentic Patent Pending (0816556.5) Data Collection Continuous recording, or time line, of activity Data Analysis Provides probability that activity occurred, akin to the use of DNA evidence in court | Unique form of host-based metadata Details of file-access history and process interaction Offline analysis abilities Compliance, eDiscovery, and Digital Forensics ready Easily integrates into multiple strategic activities Patent-Pending fingerprinting technology Robust form of evidence Compliments existing audit data Adds value to existing SIEM audit sources |

Digital DNA

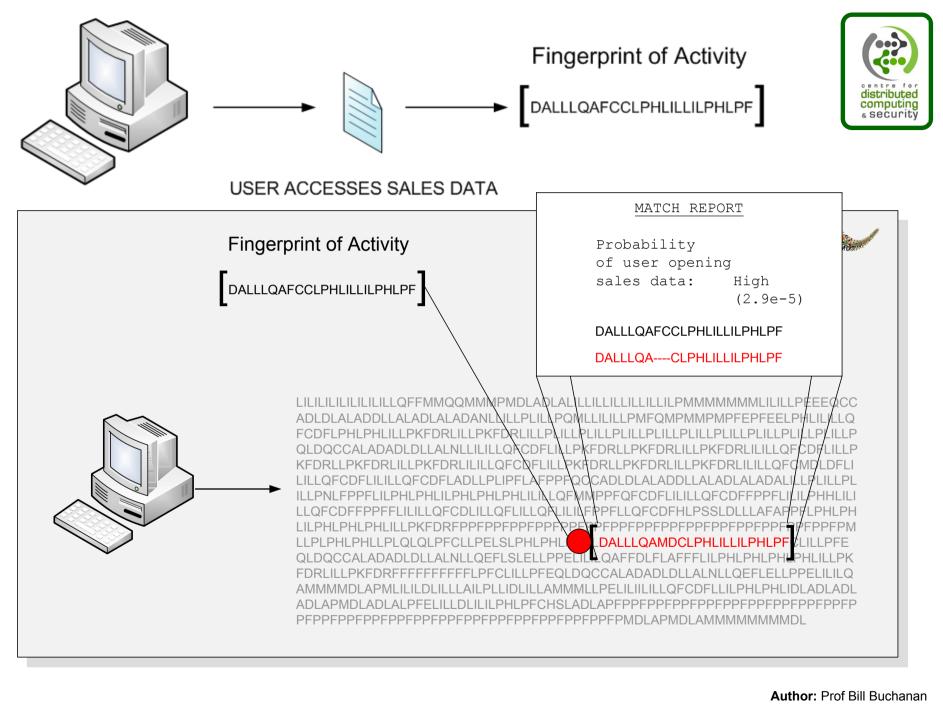


Author: Prof Bill Buchanan

Digital DNA

Digital DNA

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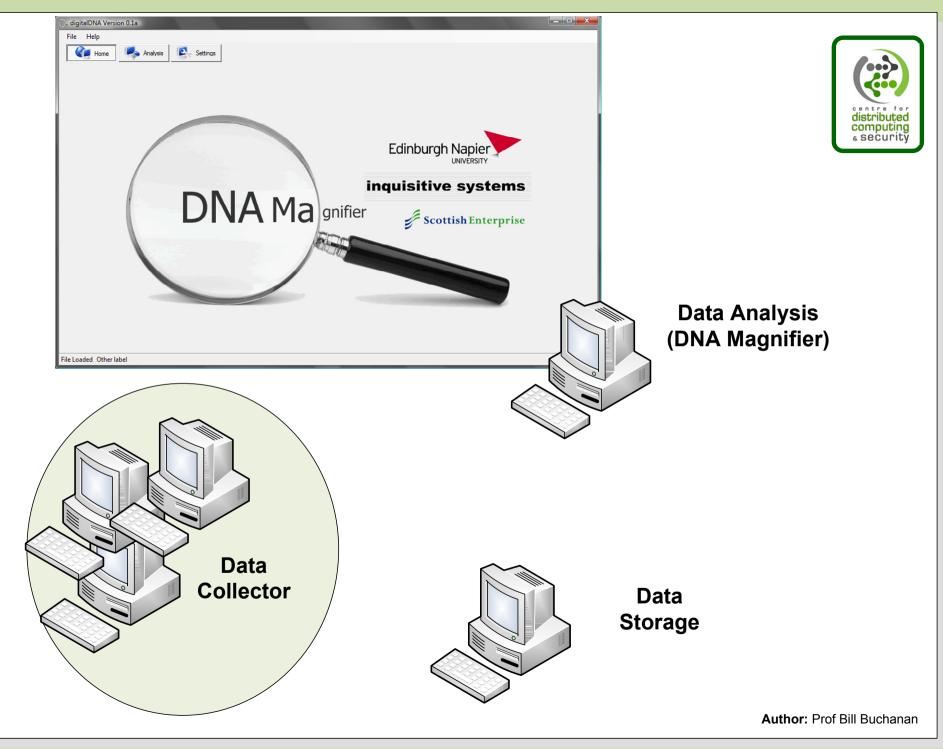


⁻ Jamie Graves

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Digital DNA

Digital DNA



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Digital DNA

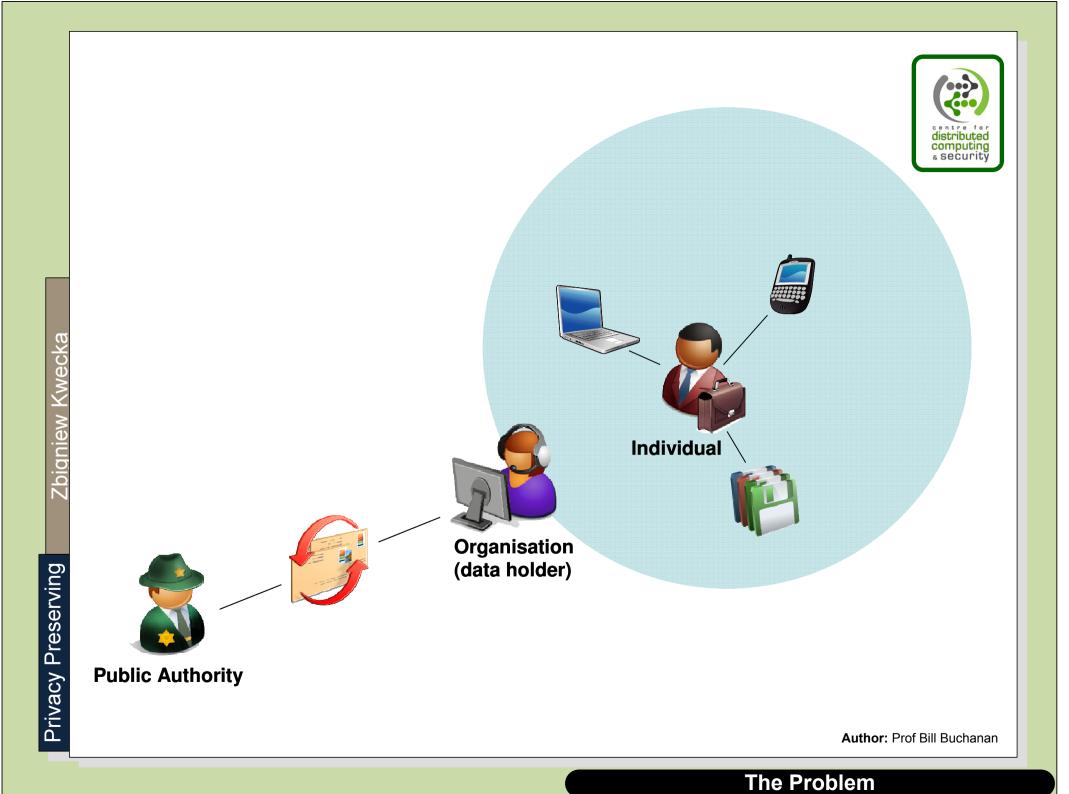
Digital DNA

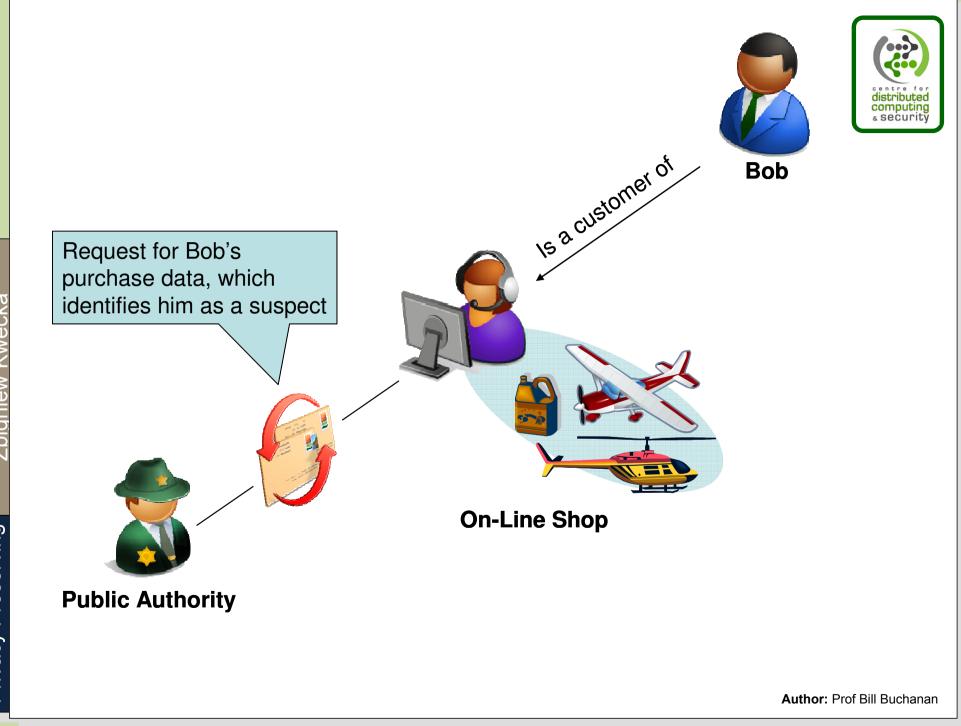
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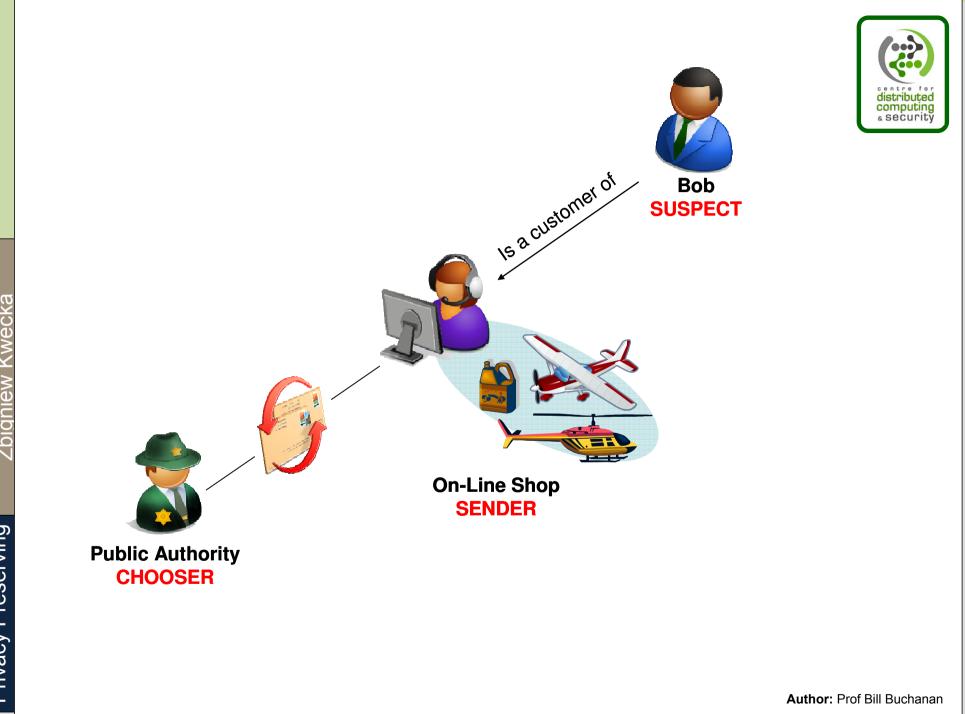
How do you balance the rights of the **individual** against the rights of the **investigator**?

centre for distributed computing & Security 1-N Oblivious Transfer Algorithms in Privacy-Preserving Investigations Zbigniew Kwecka

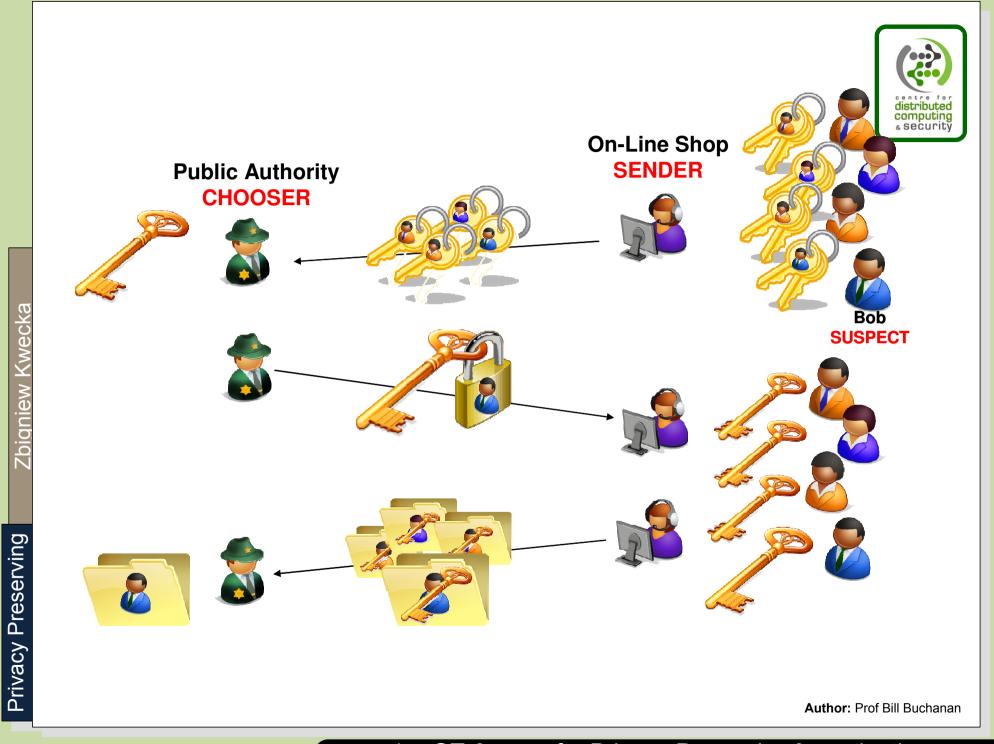




The Problem

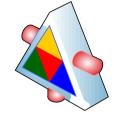


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1-n OT Access for Privacy-Preserving Investigations

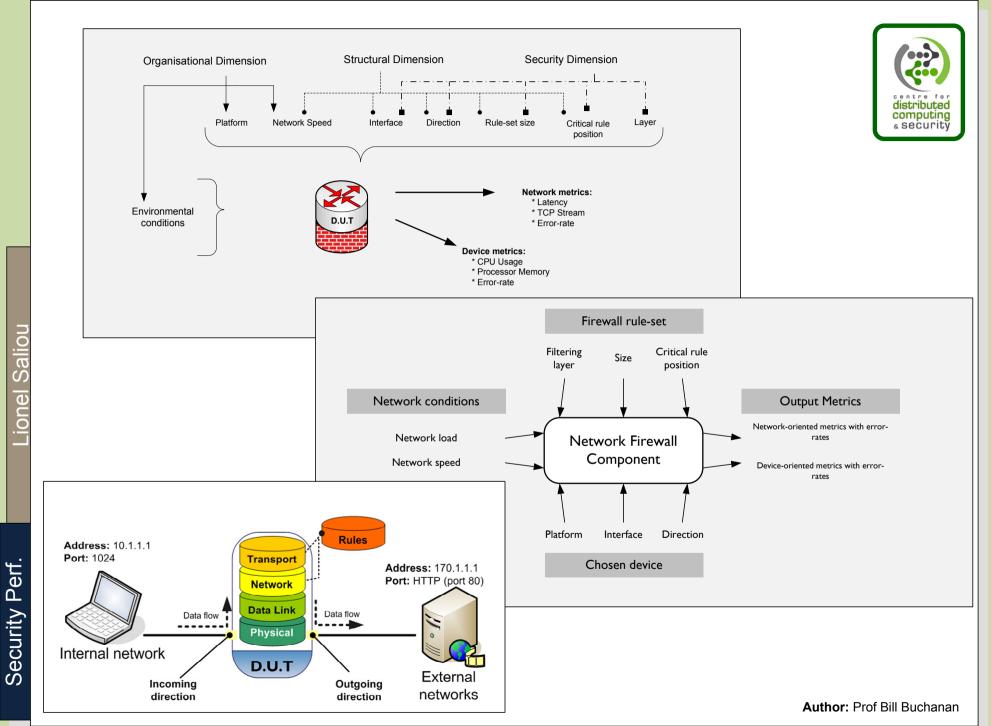




How do you **assess** the affect of security on networked devices?

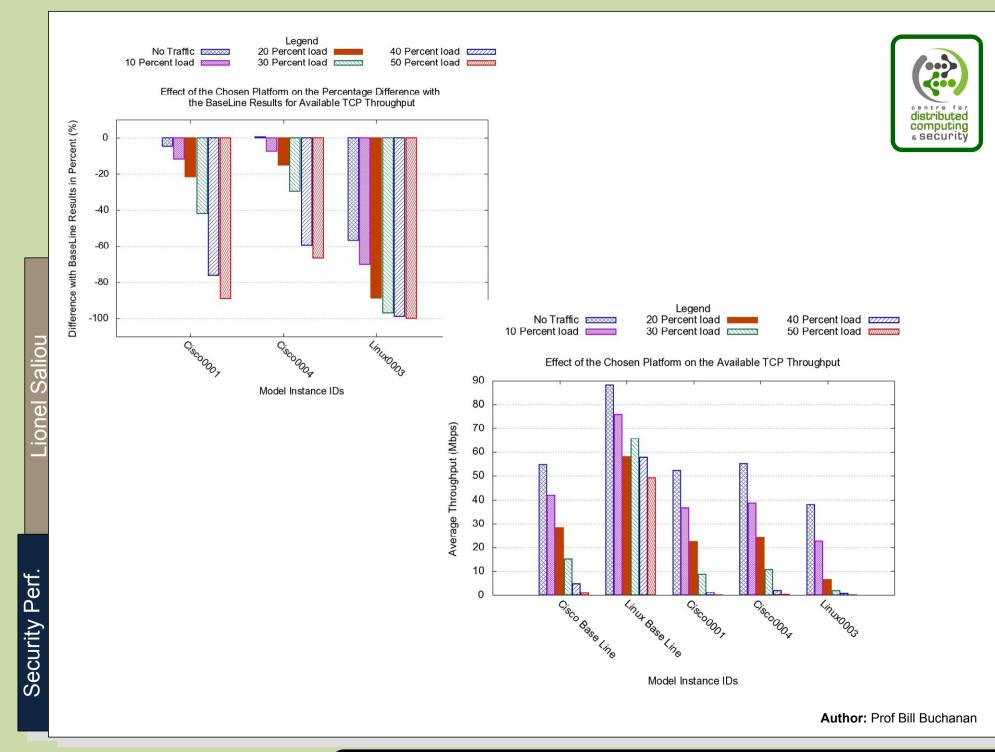


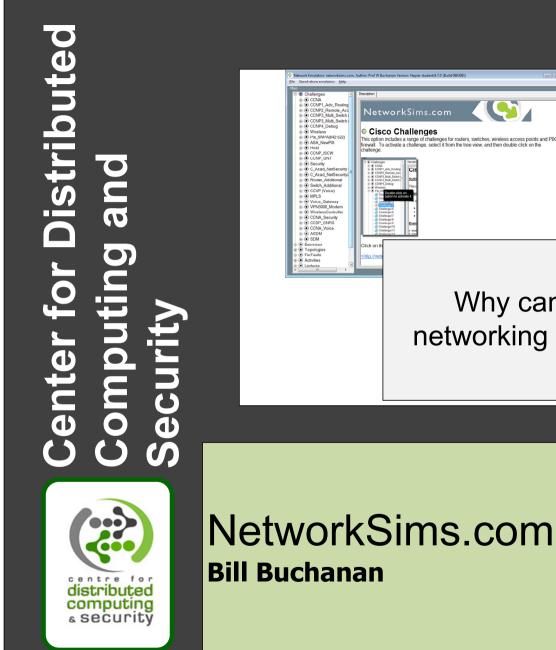
Dynamic Performance Modelling for Network Devices Lionel Saliou



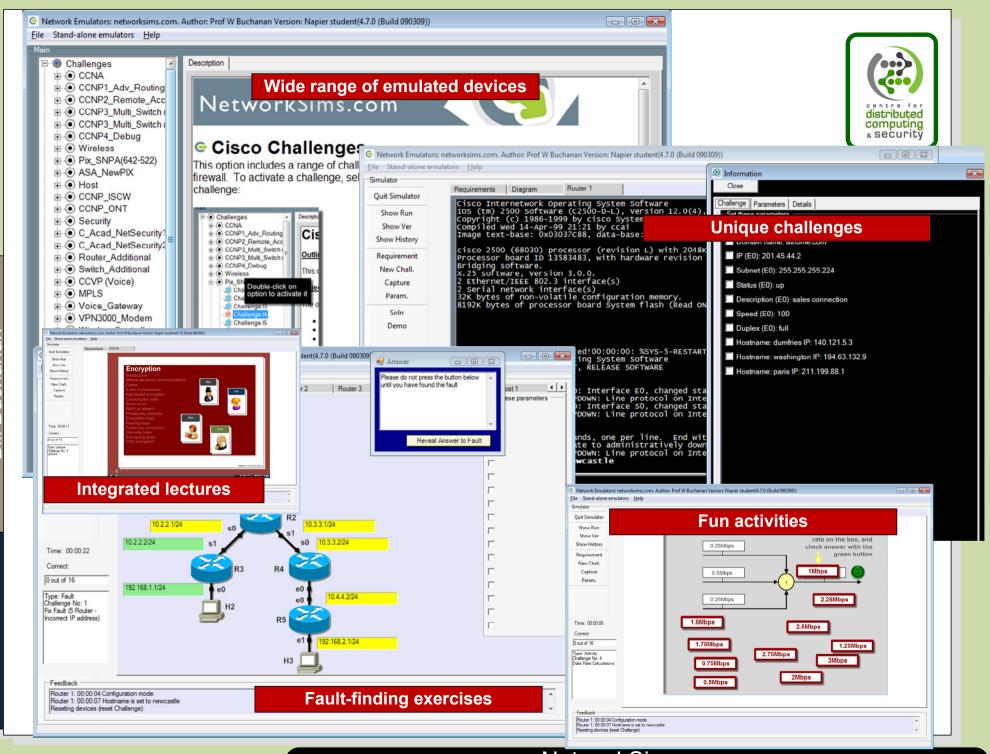
Dynamic Performance of Security Devices

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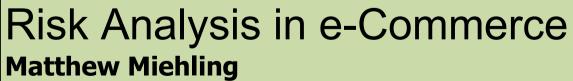
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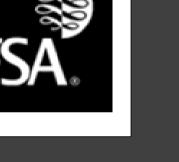
NetworkSims.com

NetworkSims.com



distributed computing & security

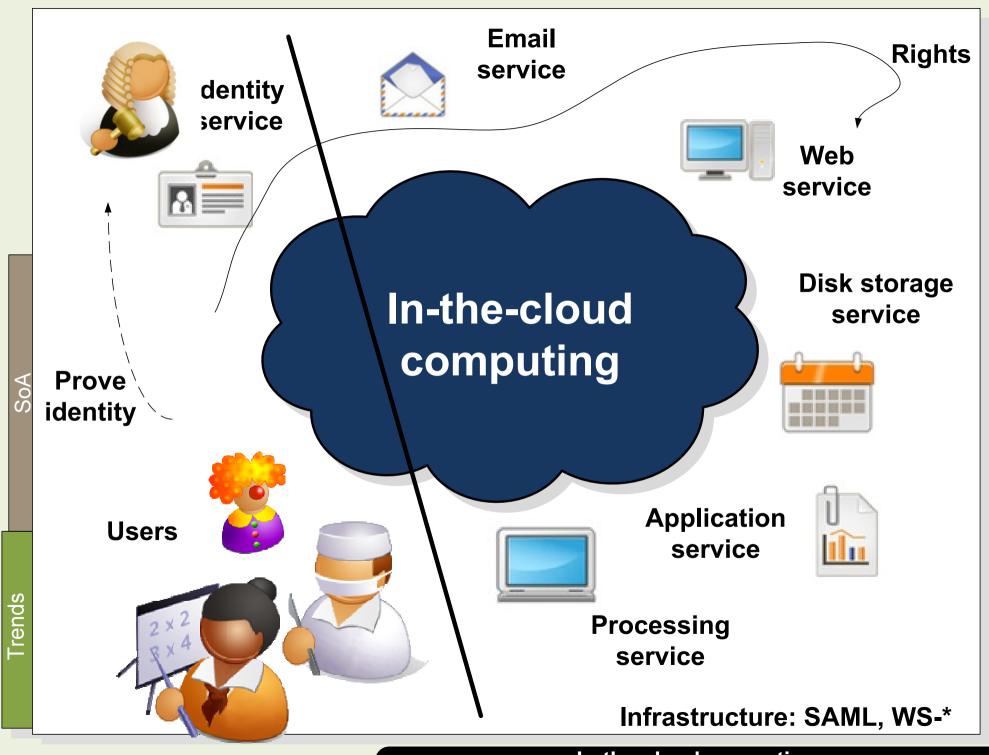




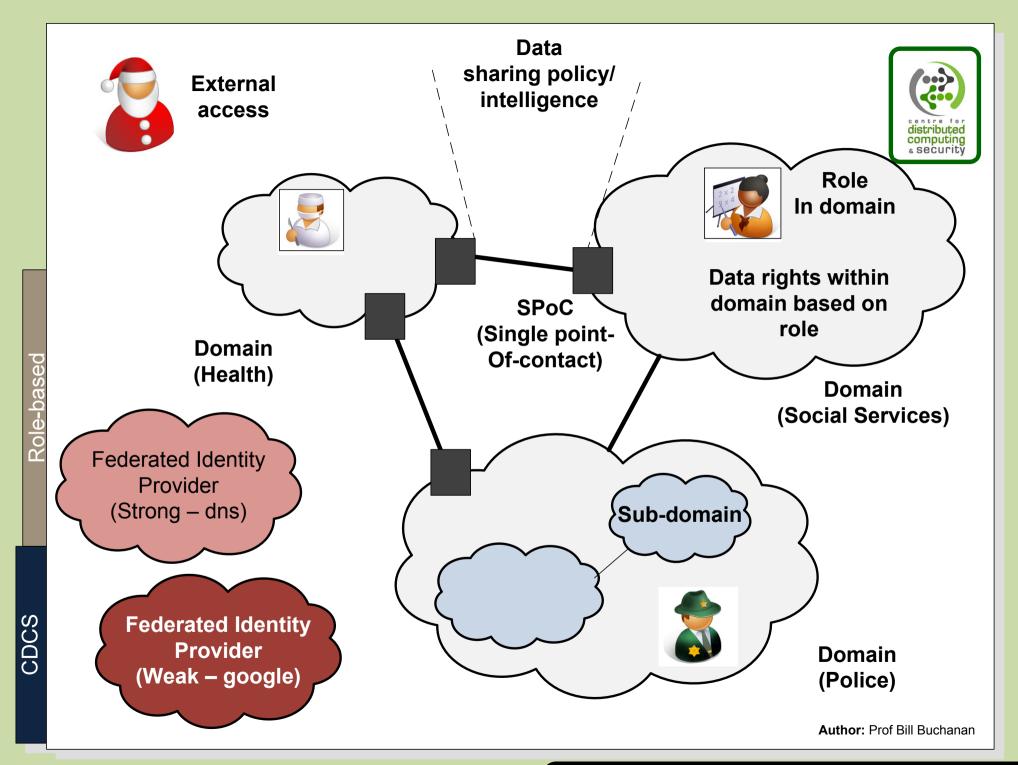




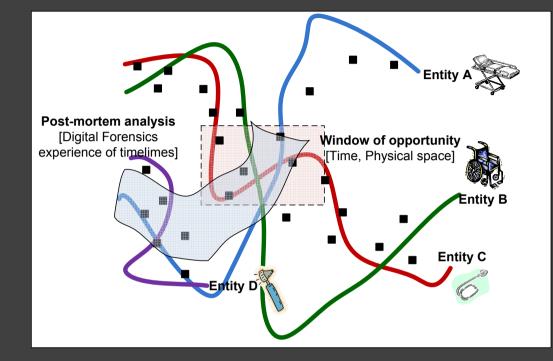
Next-Generation Intelligence Gathering Framework Omair Uthmani



In-the-cloud computing

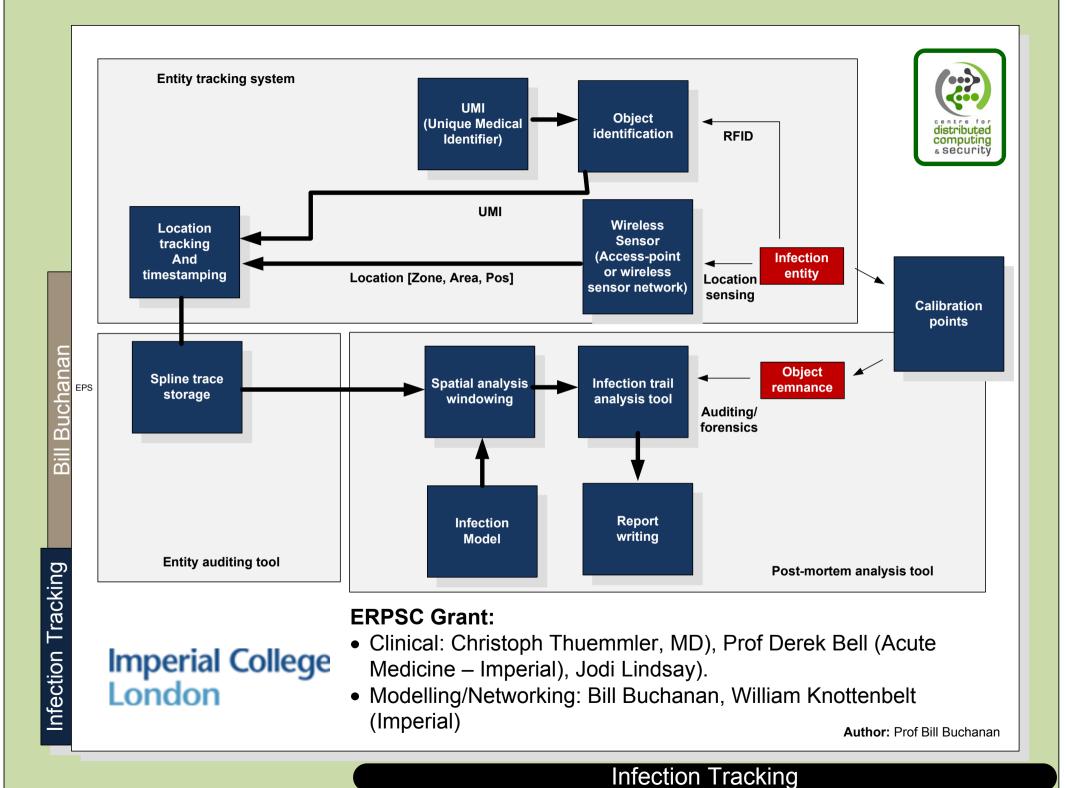


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Infection Tracking/Modelling Infrastructure Christoph Thuemmler



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