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## KeyPoint: Trusted Research Environment for sensitive data.

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QCIF has developed a purpose-built trusted research environment named KeyPoint to address the increasing need for secure and trusted digital environments for sensitive data in various research fields, including population health, biosecurity, food security, environmental science, and social science. KeyPoint provides a remote analysis environment for sensitive data which enables robust governance, management, and sharing of sensitive research data with approved researchers in a scalable, highly secure platform.

KeyPoint ensures data governance at scale and expandability by employing self-contained research environments with strong role-based access controls and complete separation of research activities. KeyPoint uses a novel approach which associates roles and contexts to an Australian Access Federation identity through personas, achieving strict role and project separation. This is particularly relevant at the virtual desktop layer, eliminating inadvertent opportunities for data linkage or masquerading data ingress and egress across different projects. KeyPoint's capabilities support globally distributed collaborators on research projects.

KeyPoint has been developed with security controls, such as ISO/IEC 27001, in mind. Further, it aligns with the Five Safes Data Sharing Principles, providing governed and highly secure environments for collaborative research analysis.

This presentation will provide an overview of KeyPoint, focusing on its innovative data governance model and its scalability models. It will also describe the approach taken to ensure strict project separation at the virtual desktop. Additionally, the presentation will address future work and planned capabilities.

KeyPoint's advanced capabilities in data analysis, including AI and machine learning, have already been adopted by ground-breaking projects, empowering researchers to tackle complex research challenges across any research domain. This highlights the importance of robust infrastructures in supporting data-intensive research and fostering global collaboration for sensitive data.

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