

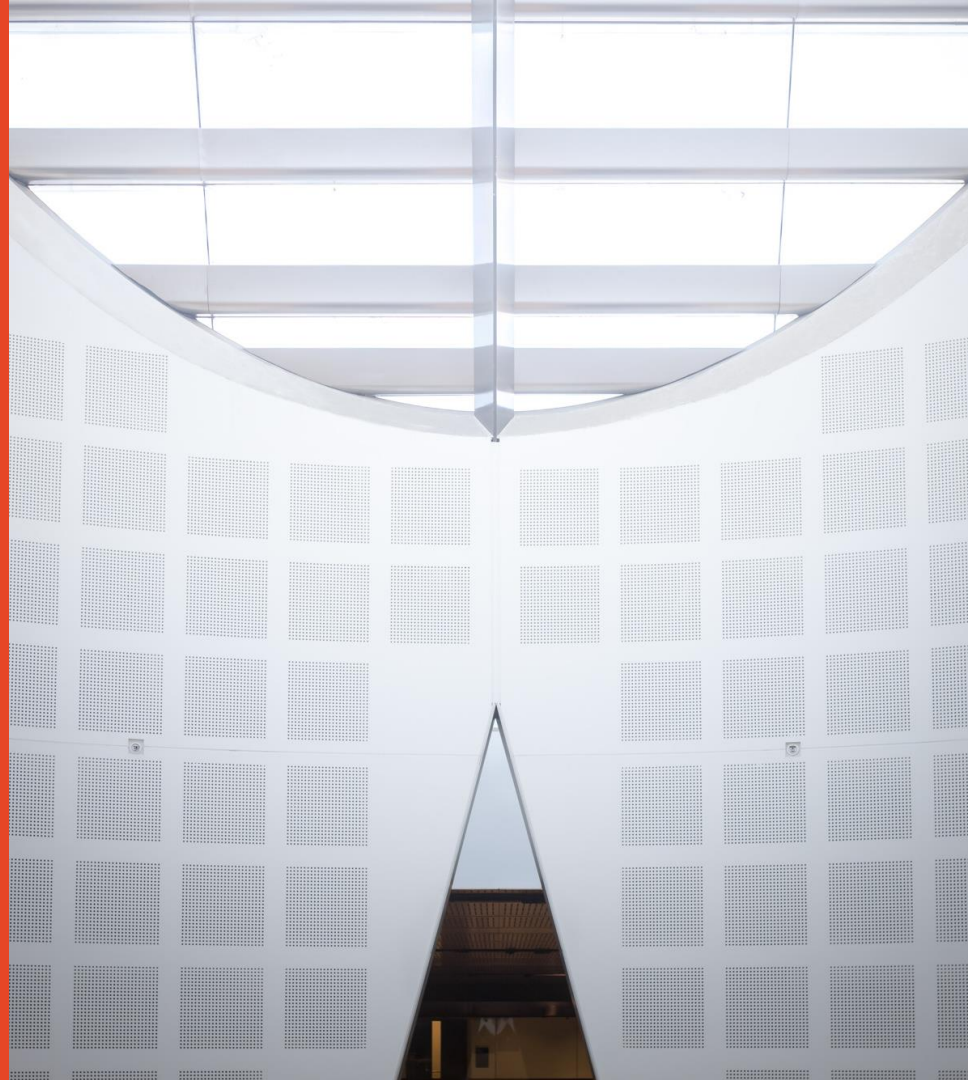
Sensitive Imaging Infrastructure using XNAT

Presented by

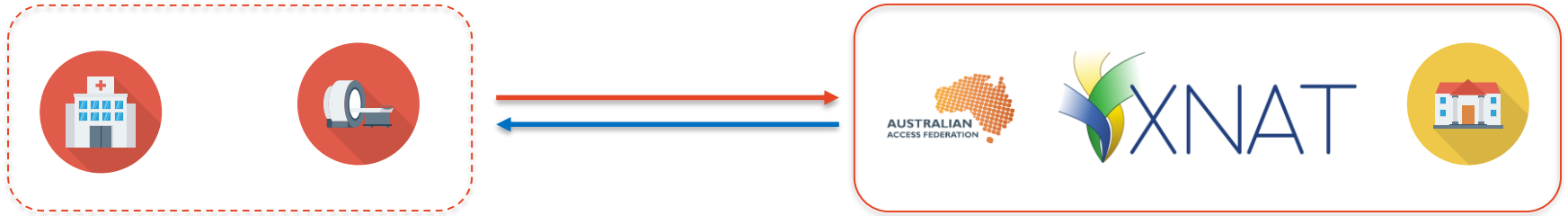
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De-risking clinical imaging research



How do we better manage sensitive imaging data storage and analysis when interacting with affiliated clinical sites?

1. Security Audit
2. Workflows & Current Practices
3. Use case delineation
4. Creation of New Policy
5. Enhancement and Technical Implementation

Key issues

- Security
 - underlying infrastructure
 - domain specific application layer
- Theory vs Practice
 - Translating patient consent to implementation
 - Lack of oversight for both University and clinical sites
 - Lack of tools

Lessons Learnt & New Approaches

- Helped develop security hotfixes
 - XNAT 1.7.5.4-6
- Mapping Consent
 - Plain Language \leftrightarrow Semantic Grouping \leftrightarrow Technical
- Clinical Trials Processor pipelines
 - FOSS by Radiological Society of North America
 - Global Unique ID
- Need for centralized control

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