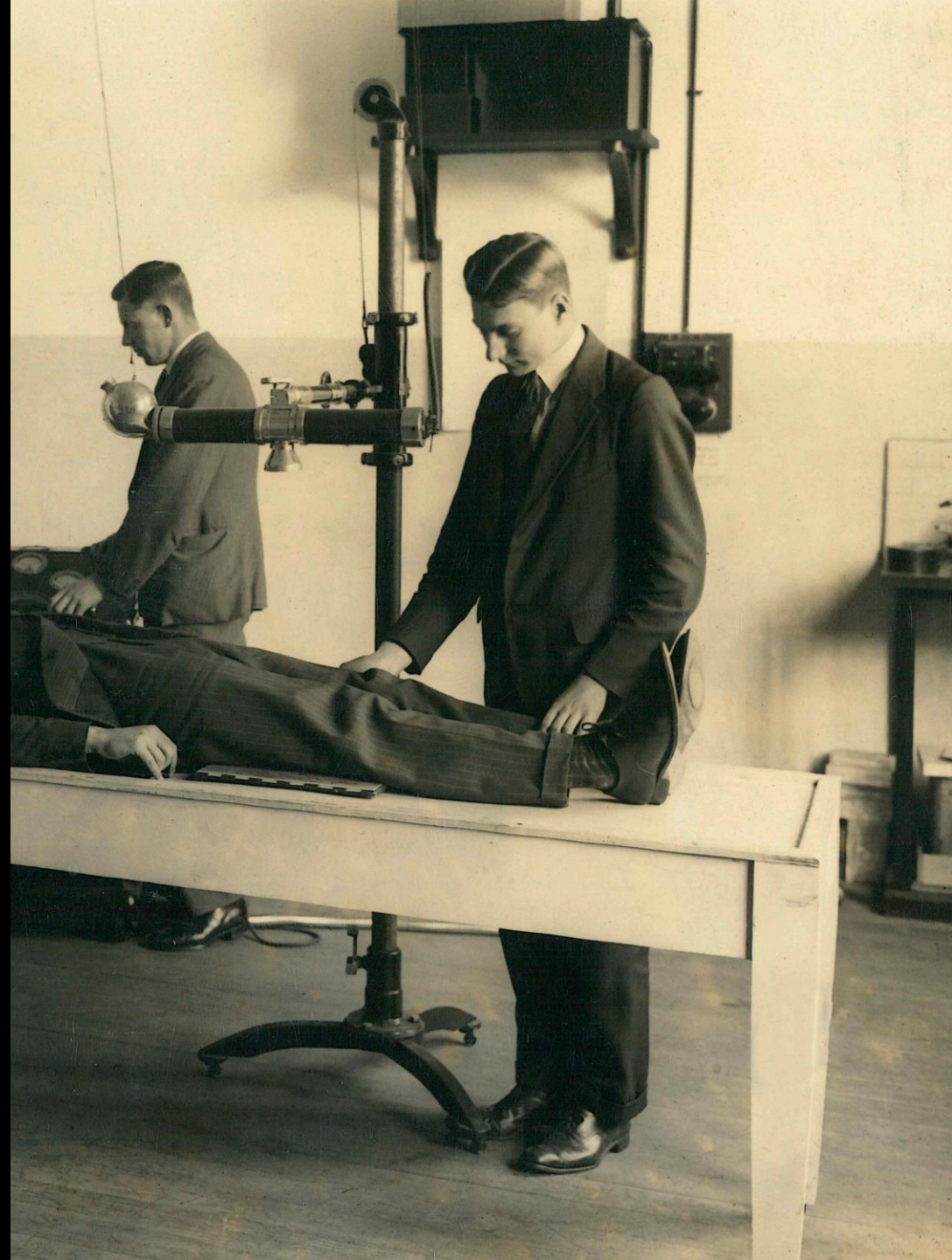
Developing a risk profile as part of a Digital Preservation Roadmap

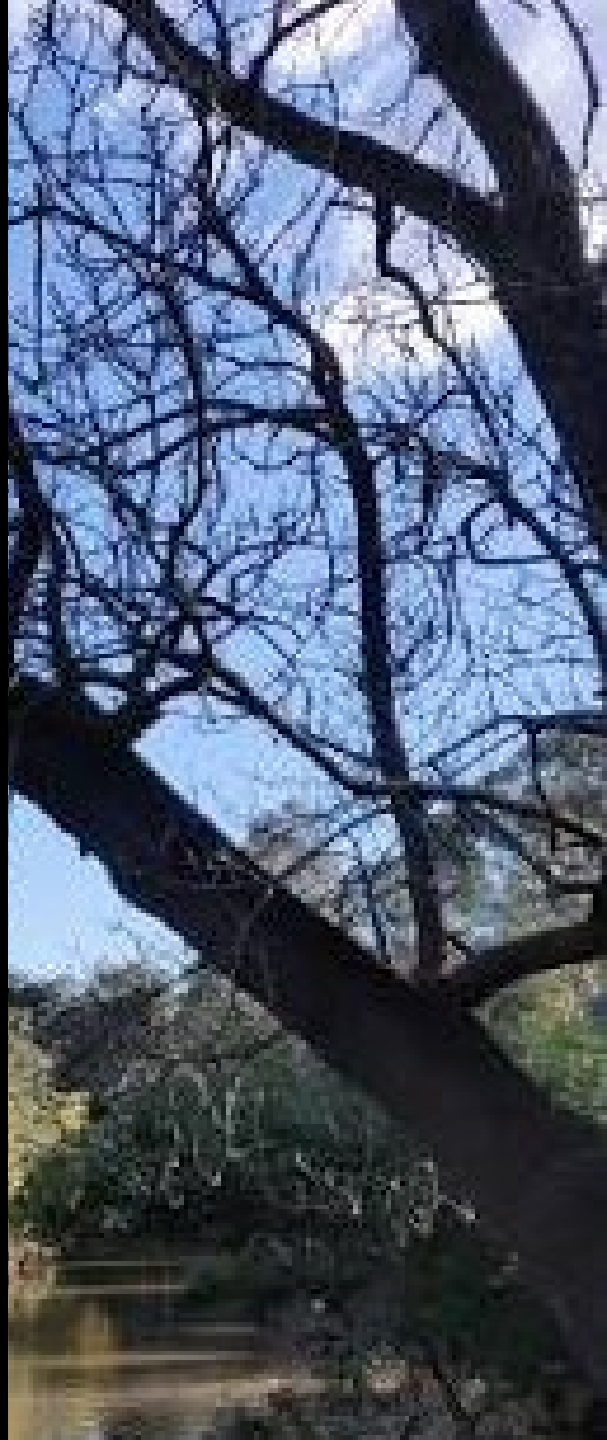
Rachel Tropea
Manager, RMIT University Archives

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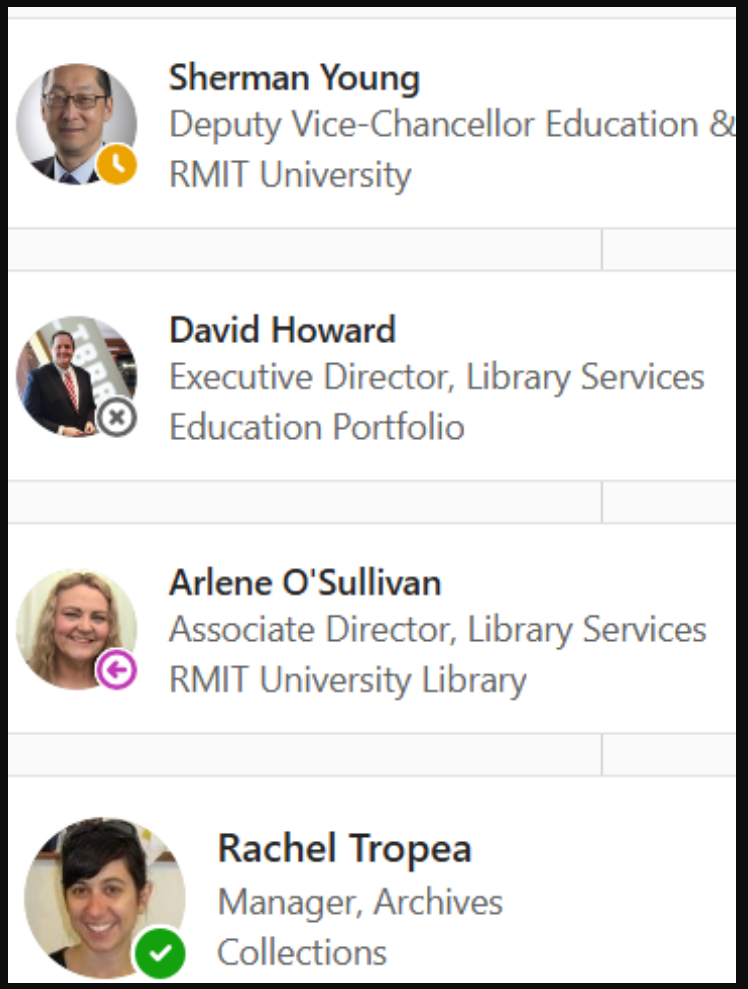


Merri Creek

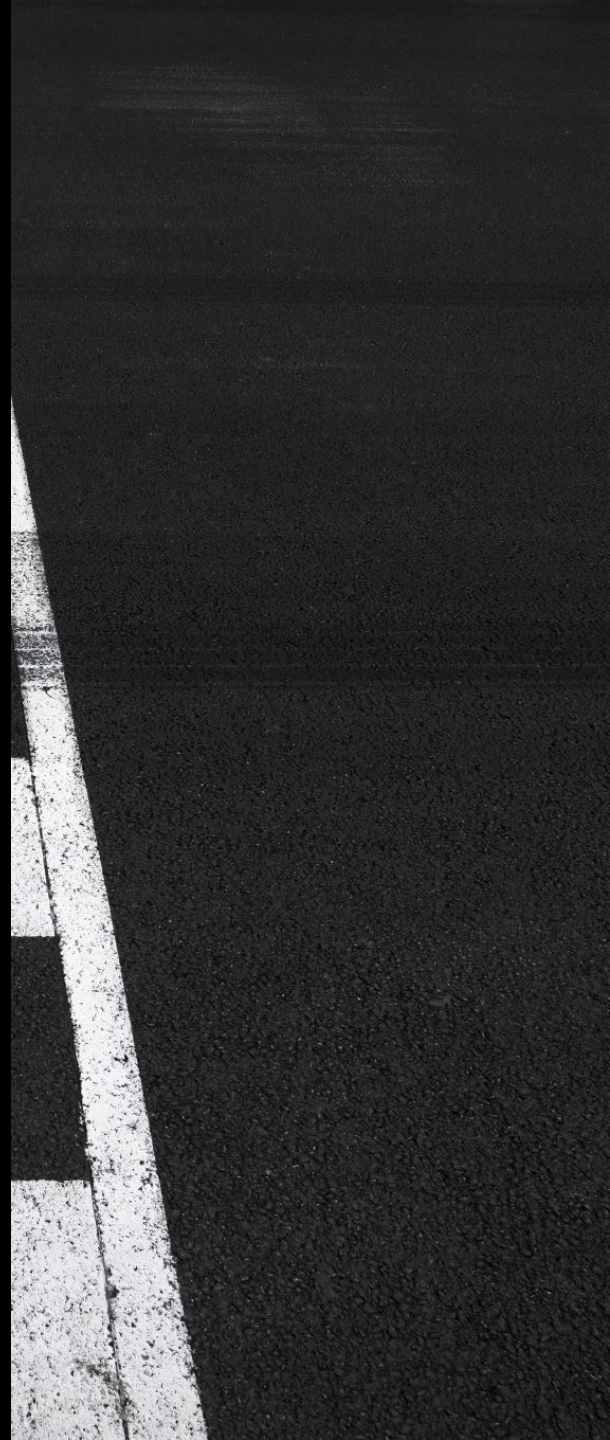
Wurundjeri Woi Wurrung



The chain of command



From Strategy to Roadmap to Implementation



Digital Preservation Coalition



Workshop it

rsity of storage, no single fa

d onsite ‘custodial copy’ on
eedom from providers
overwritten? Do they have

when we learn more.
biggest risk?!
ystem, replicating vs mirrori
ntal deletion etc)

ere do we need to improve?
t are the gaps, conclusions



Digital Preservation System Storage Risk Assessment template

Rosetta - enterprise storage locally, connected to S3 backup daily, with incremental backups.

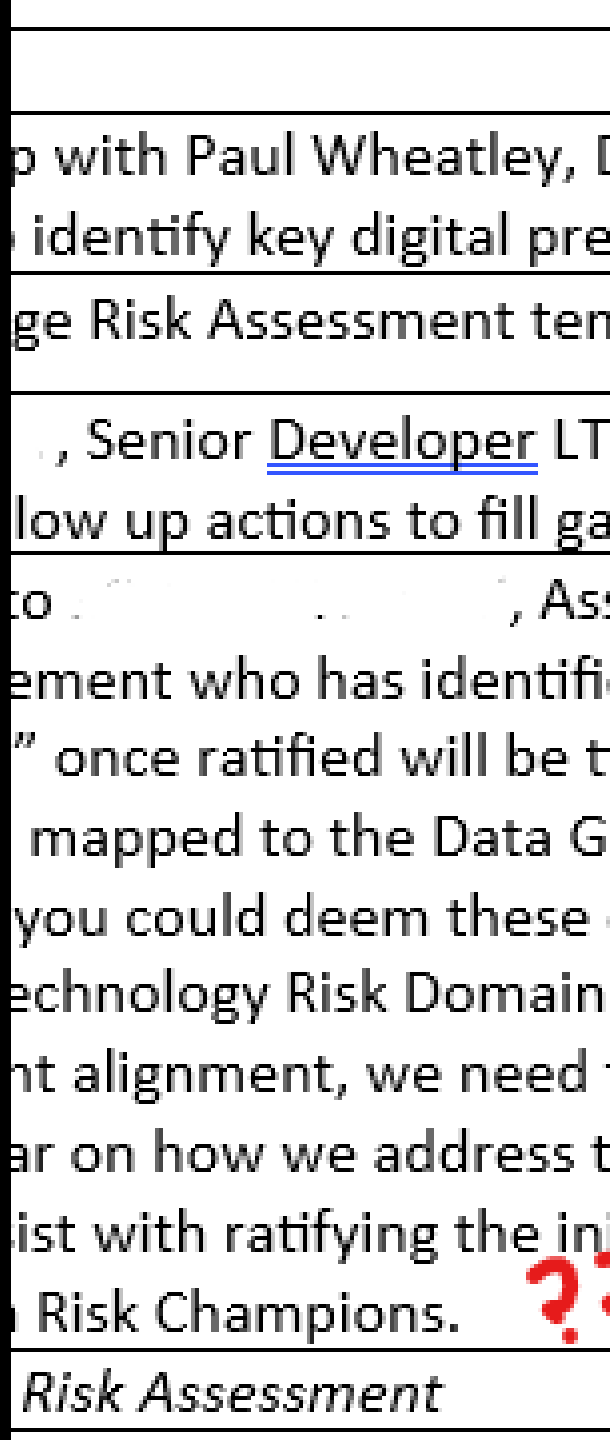
1= lowest risk / 12= highest risk

Storage threat	Existing mitigations	Likelihood	Impact	Raw risk score	Additional mitigations	Addl mitigations adjustment	Adjusted risk score		Notes
Bit rot / loss or damage to content	Enterprise redundancy built in. No cloud backup. Mounted volume, RMIT enterprise storage, backed up by a system called CommVault (used by ITS for on premise storage). If delete something, can retrieve. Over time, switched to tape backup - could take up to 3 weeks to retrieve data. commvault - daily backup, so could lose a days worth of data; database backups are hourly (using Oracle back up facility).	2	4	8			8	MEDIUM	Tim to follow up with ITS, more info about back up. Where on prem and back up tapes are located, hopefully different geo-locations. Status 17/7/25: Servers for on-premises storage are located in Port Melbourne and Noble Park, back up tapes are located in Iron Mountain facility in Melbourne. However, the back up tapes cycle is 90 days, there are not a 'permanent storage' solution. RMIT has no offering for permanent storage at present. Rosetta - is there built in cloud storage? no outbound set up at present. There's an application server, and a database server. objects saved on RMIT on prem storage. Status 17/7/25: no outbound set up. Rosetta does not offer a solution that would suit RMIT (offers cloud for a maximum of 100TB - way too small for our needs. Recommend seeking alternative
Storage hardware failure	Storage managed by ITS. Multiple redundancies.	1	3	3			3	LOW	Don't know if its solid state or spinning drive storage. Tim and David to follow up.
Storage media/hardware obsolescence	ITS monitor and replace old drives.	1	4	4			4	LOW	
Accidental deletion / human error	Backups, but limited time to recover before written over. Rosetta provides functionality to reduce likelihood of accidental deletion.	2	9	18			18	TBC	Mitigation: Limited Library staff access. Currently under review. How long do copies persist for? Tim and David to follow up. Status 17/7/25: Back up tapes persist for 90 days.
Malicious damage by staff	No staff members have write access to all copies of data.	1	9	9			9	MEDIUM	
Malicious damage by external party (cyber attack)	Good awareness due to experience of cyber attack. Heightened mitigations in place. Risk averse. Vulnerability reports, tracking on critical and high issues.	2	5	10			10	TBC	How long do copies persist for? Tim and David to follow up. Status 17/7/25: Back up tapes persist for 90 days.
Commvault node failure (single point of hardware / software failure affecting all replicated copies)	Diverse storage technology, software and management regimes	3	4	12			12	HIGH	Space / budget limitations - G drive: Total of 33 TB available, used 28TB. Can't assume we can add storage. Archives has purchased a 24TB Hard Drive as a temporary solution. Also 3 tape copies at Iron Mountain in Melbourne, 90 days (meets govt requirements). Status 17/7/25: Rachel has met with Lauren and David. David felt has developed a price package for additional on prem storage (see notes below) and has advised that RMIT does not currently offer an unlimited storage solution that meets digital preservation requirements. David stated that there would need to be a new investment case developed in order to test a new solution. In the interim, Archives has purchased a 24TB Hard Drive as a temporary solution. David Rok, notes about current storage status: The Backup and Storage Platform is not declared as a Digital Preservation Platform. This Backup

Rob: Rosetta servers (will b all processing to servers in M can access th from the App information server via a Disk space fo Dantar (which would be abl

RMIT Storage Risk Assessment draft

The story so far...



Enterprise Risk



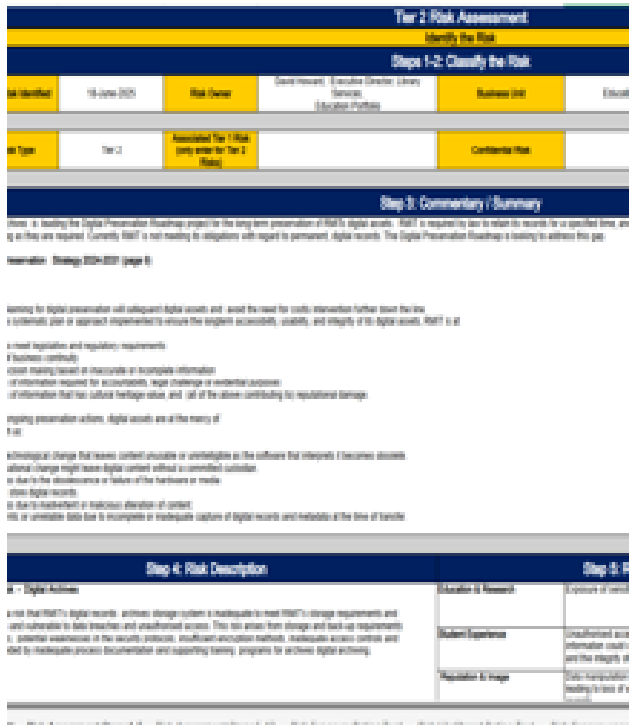
Other players:

*Enterprise Risk Team
*Risk Assessment Template
*Risk Register

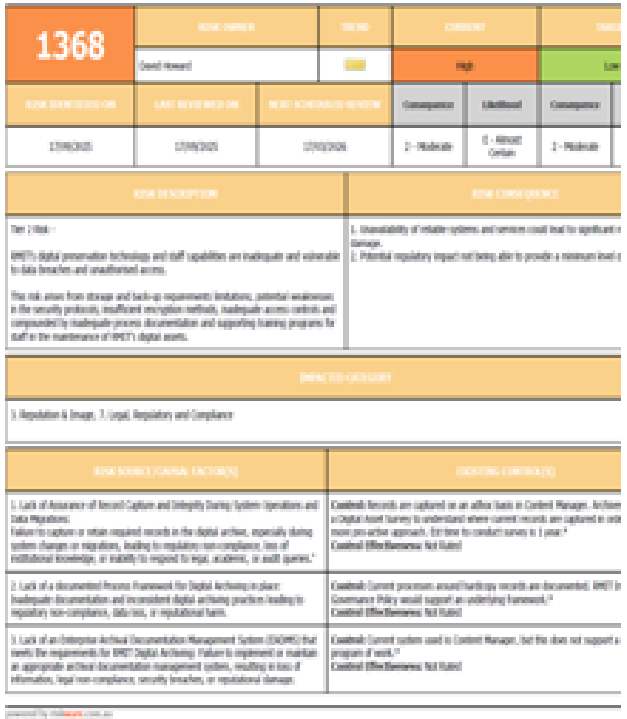


RRR

Risk Assessment Template



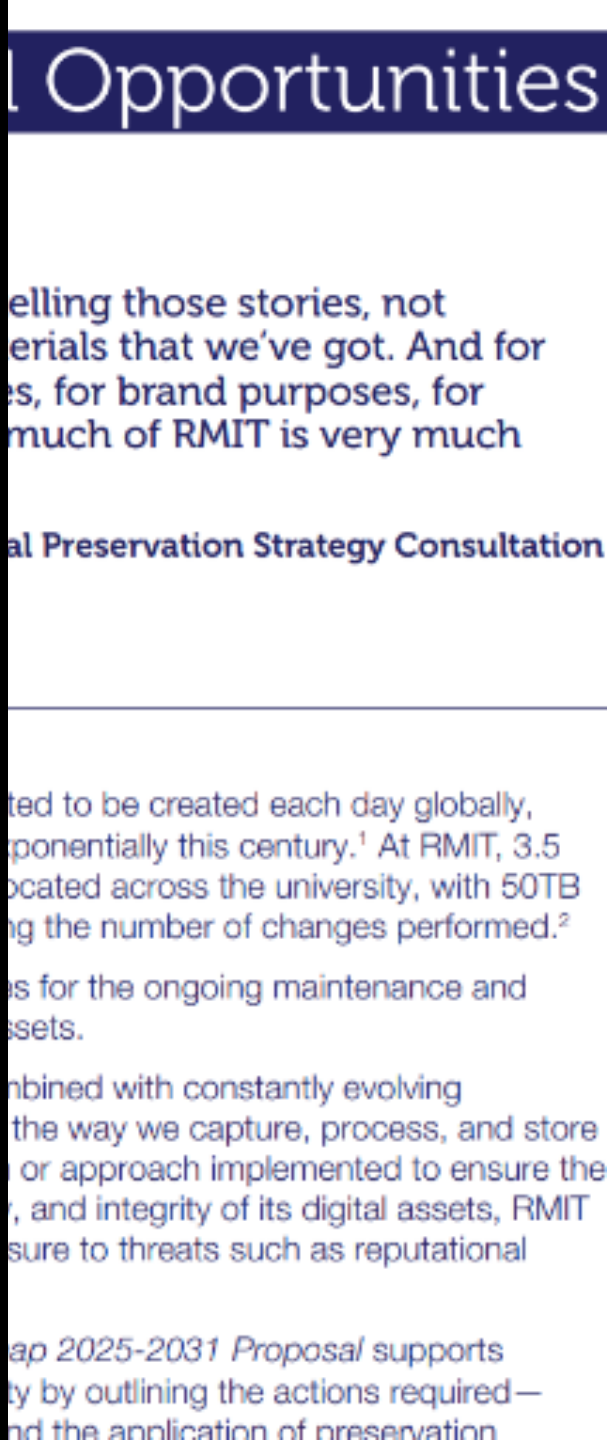
Risk Register

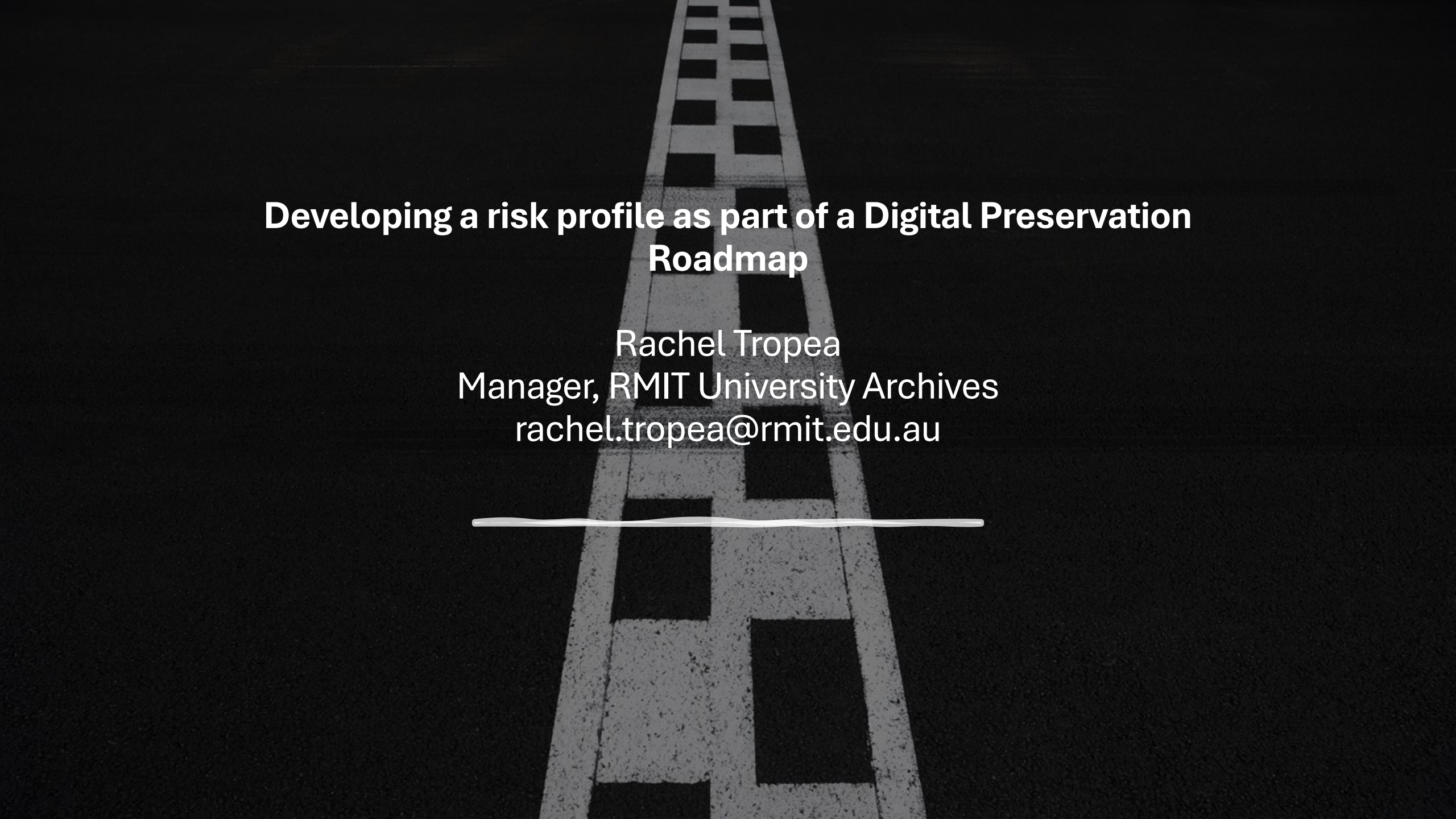


Roadmap – Risk Assessment



Roadmap Proposal





Developing a risk profile as part of a Digital Preservation Roadmap

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