TR-PSR – Dual Use and Sensitive Technology Treatments of Risk Matrix

This Matrix has been developed by a University Research Offices New Zealand working group on sensitive technology as part of a larger programme of work led by Universities New Zealand – Te Pōkai Tara.

Its purpose is to describe the high-level approaches to be used in treating sensitive technology risks in university-led projects. A standard approach is desirable to enable the efficient development of multiparty research proposals and contracting and to give confidence to sponsors that the research will be managed appropriately.

Research proposals will be submitted for a risk assessment much as you would if you were applying for ethics or permissions through any other regulating body (contact your research office for details). It is important to do this early, particularly if you intend to seek external collaboration or sponsorship.

When a research project receives a risk rating, a process is initiated to identify the specific elements of the research that are critical to protect. A risk plan will be required and this Matrix is used as an initial guide to inform the plan. Specific guidelines, policies and processes are either available or being developed that will provide more detail.

If your research project is sponsored, the risk plan is likely to be a contract precondition.

Depending on the nature of the risk, regular project monitoring and reporting will be needed.



	ТОРІС	LOW RISK	MODERATE RISK	HIGH RISK
PROJECT DESIGN PHASE	Project assessment	 Assess nature of technology, sensitivity type (export control, dual use, NZ reputation, culture, commercial, personal data) and sensitivity level Assess risk 	 Assess nature of technology, sensitivity type (export control, dual use, NZ reputation, commercial, personal data) and sensitivity level Assess risk 	 Assess nature of technology, sensitivity type (export control, dual use, NZ reputation, commercial, personal data) and sensitivity level Assess risk
	Sponsor/partner/ collaborator assessment	 Country and organisational values (ethical, moral, legal or national security) – funding, affiliations, freedoms Partners agree to sensitive technology principles 	 Country and organisational values (ethical, moral, legal or national security) – funding, affiliations, freedoms Partners agree to sensitive technology principles 	 Country and organisational values (ethical, moral, legal or national security) – funding, affiliations, freedoms Partners agree to sensitive technology principles
PRO	Other 'interested parties' to include (MBIE, MFAT ISDD, DTA, NZSIS, GCSB, iwi)?	Seek advice on relevant parties to consult	Seek advice on relevant parties to consult	Seek advice on relevant parties to consult
	Contract visibility	• Public	De-identifiedAdditional clauses or schedules	Not disclosedAdditional clauses or schedules
PEOPLE & KNOWLEDGE	Intellectual property	 Project intellectual property advisory group Standard intellectual management processes 	 Project intellectual property advisory group, including third-party 'interested parties' Specific protocol for intellectual property protection and development 	 Project intellectual property advisory group, including third-party 'interested parties' Specific protocol for intellectual property protection and development
	Subcontracting	Standard subcontract agreement	 Probable – adherence to additional clauses and sensitive research management requirements 	 Possible – adherence to additional clauses and sensitive research management requirements
	Post-contract	Protocol for use of background intellectual property in future work	Protocol for use of background intellectual property in future work	Protocol for use of background intellectual property in future work
	People	Standard employment proceduresConflicts of interest (ongoing)	 Due diligence check (consider discussing with PSR) Security induction Conflicts of interest (ongoing) 	 Due diligence check (consider discussing with PSR) Security induction Conflicts of interest (ongoing)
	Student rights	 Non-disclosure Intellectual property may or may not be assigned depending on funding 	 Non-disclosure Intellectual property assigned to university Thesis may be embargoed 	 Non-disclosure Intellectual property assigned to university Thesis may be embargoed indefinitely
_	Environment	• Card security access/building(s)/field site(s)	Shared space(s)Card security accessPassive monitoring and reporting	 Dedicated space(s) Two-factor security access Passive monitoring and reporting
PHYSICAL	Equipment/devices	Protected or not permanently stored	 Data password protected or removed University-owned computers only Remote devices encrypted 	 Dedicated equipment University-owned computers only Remote devices encrypted
đ	Materials	• General security	 Secured space/import licence/protection protocol if required to leave space/custodian 	Secured in dedicated space/import licence/protection protocol required to leave space/instance signoff
	Paperwork	Prescribed notebook recommended	 Issued notebook/locked away/retained by organisation 	Issued notebook/stays in room/retained by organisation
	Contract record	 Additional security clauses or schedules are incorporated in collaborating partner agreements Document sensitive security plan and any assessments (including assessment of any new parties post-ideas phase) 	 Additional security clauses or schedules are incorporated in collaborating partner agreements Document sensitive security plan and any assessments (including assessment of any new parties post-ideas phase) 	 Additional security clauses or schedules are incorporated in collaborating partner agreements Document sensitive security plan and any assessments (including assessment of any new parties post-ideas phase)
	Data	 Multifactor password protection recommended/ confidential information classification/standby lock 	 Stored centrally/restricted information classification/ multifactor password protection/temporary devices encrypted/standby lock 	 Stored centrally only/restricted information classification/data split/multifactor password protection/temporary devices encrypted/standby lock
Ľ	Backup	Central recommended	Central only	Central only
	Archive	University records management policy appropriate to this level of risk	• University records management policy appropriate to this level of risk	University records management policy appropriate to this level of risk
	Communications	Approved by project leader	LimitedApproved by research office	LimitedApproved by DVC (via research office)
z	Outputs	All outputs subject to project leader review. Will not be unreasonably withheld	• All outputs subject to university review. Will not be unreasonably withheld	 All outputs subject to university review. May be deemed classified
OE	Reporting	Annual risk review and reporting	Half-year risk review and reporting	Quarterly risk review and reporting
DISSEMINATION	Other 'interested parties' to include (MBIE, MFAT ISDD, DTA, NZSIS, GCSB, iwi)?	• Check-in	 Possible reporting (security incidents and suspicious activity) 	 Yes, inclusion in relevant advisory group(s) and reporting (security incidents and suspicious activity)
ISS	Outcomes	Some constraints on use	Moderate constraints on use	Significant constraints on use
Δ	Post-contract	Protocol for using background intellectual property in future work	 Protocol for using background intellectual property in future work 	Protocol for using background intellectual property in future work

SEVERE RISK
 Assess nature of technology, sensitivity type (export control, dual use, NZ reputation, commercial, personal data) and sensitivity level Assess risk
 Country and organisational values (ethical, moral, legal or national security) – funding, affiliations, freedoms Predefined handling standards
Seek advice on relevant parties to consult
SecretAdditional clauses or schedules
• Sponsor (100%)
No partners other than sponsor
Predefined handling standards
 Discuss with PSR Security induction Conflicts of interest (ongoing)
• No students
 Dedicated space(s) Two-factor security access Active monitoring and reporting
Dedicated equipment off network
 Secure/dedicated space(s), import licence/returned to sponsor/destroyed
Notes only/stays in room
 Additional security clauses or schedules are incorporated in collaborating partner agreements Document sensitive security plan and any assessments (including assessment of any new parties post-ideas phase)
 Offline server Secret information classification No cloud
Approval to move Predefined handling standards
Predefined handling standardsAll material returned to sponsor/destroyed
No publicity
Predefined handling standards
Predefined handling standards
Yes, inclusion in relevant advisory group(s) and reporting (security incidents and suspicious activity)
Predefined handling standards
Predefined handling standards