

Business Continuity Management Framework

June 2024

# **University Operations**

# Risk, Assurance and Compliance

Campus and Collegiate Life Services | Campus Development | Chief Operating Officer Health and Safety Compliance | Information Technology Services | Project Management Property Services | Student Services | Sustainability



#### **Document Control**

#### Document ID: Put: \root directory \path here

Version No.	Date Revision Details		Author	Endorsed	Approved
1.0	21 June 2017	Draft for consultation	M. Cartwright		
1.1	10 October 2017	Final version following consultation	M. Cartwright	S.Willis	Uni. Council
1.2	16 April 2024	Amendments following release of ISO22301:2019	J	Audit & Risk Commitee	Uni. Council

#### **ACKNOWLEDGEMENTS**

The Office of Risk, Assurance and Compliance acknowledge those who created and implemented the existing Business Continuity Policy, associated processes, and tools at the University of Otago. These have created the foundation and context of this framework.

Further, the following resource documents have been relied on for development of this framework:

- Security and resilience Business Continuity Management Systems Requirements, ISO 22301:2019
- Tucker, E (2015). "Business Continuity from Preparedness to Recovery A Standards-Based Approach". London. Elsevier.
- Risk management Guidelines, AS ISO 31000:2018

# CONTENTS

Acknowledgement	
1. Purpose	5
2. Scope	7
3. Benefits	7
4. Risk Governance	7
Establishing the Business Continuity Management Framework	
5. Context	10
6. Leadership	11
7. Planning	11
8. Support	12
Implementation and Operation of the Business Continuity Management Framework	
9. Operation	
9.1 Business Impact Analysis	13
9.2 Risk Assessment	14
9.3 Resource Requirements Analysis	14
9.4 Evaluation and Selection of Business Continuity Strategies	15
9.5 Business Continuity Plans	16
9.6 Relationship to Emergency Management	17
9.7 Business Continuity Plan Validation	18
Monitoring and Improving the Business Continuity Management Framework	
10. Performance Evaluation and Improvement	18
11. Contact Information	18
Glossary of Terms	
Appendices	
1. Disruptive Events	22
2. Risk Rating/Classification Table	23
3. Business Continuity Plan Validation	26

#### 1. PURPOSE

The purpose of the Business Continuity Management Framework is to improve the University's capacity to withstand the negative impact of an incident whilst at the same time maintain critical academic, research, and business activities.

The framework provides management with a process to identify potential threats to the University and the impacts to critical functions that those threats, if they eventuated, could cause. It outlines the activities for responding to those threats in a manner that safeguards the interests of key stakeholders, reputation, and the services the University provides to students.

The framework is based on the International Standard 'Security and resilience – Business Continuity Management Systems ISO 22301:2019.

Key elements of the framework are summarised in the following diagram:

## The Business Continuity Management Framework

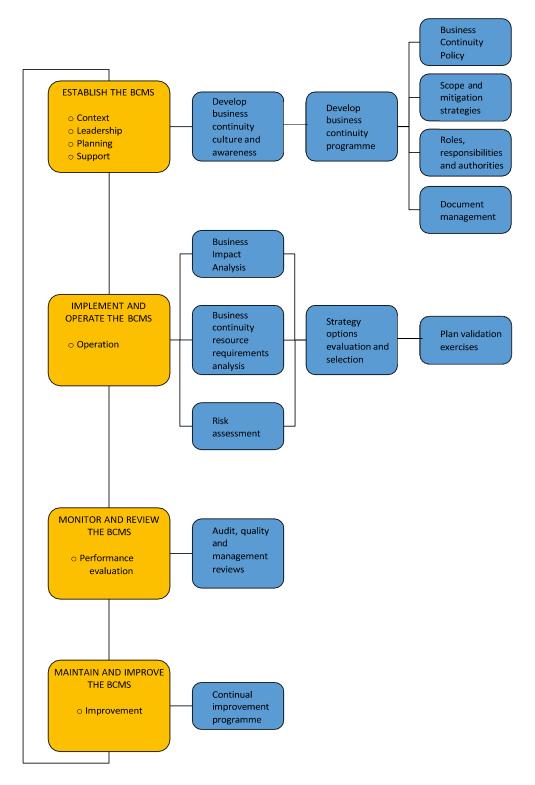


Figure 1: University of Otago – Business Continuity Management Framework (ISO 22301:2019)

#### 2. SCOPE

This framework applies to all areas of the University's business including its academic, research, administrative, support services, residential activities and commercial activities. It also applies to outsourced activities that support University operations and services.

Controlled entities of the University are responsible for their own business continuity management activities and provide reports on the status of those activities to the University's Audit & Risk Committee annually and on the request of the Committee.

Business continuity planning will initially be campus-based and focus on critical functions that support the delivery key services, giving due regard and priority to the health, safety, and well-being of staff, students, and the wider community. Key areas of operations will be introduced to the framework and associated planning activities using a staged implementation approach. The framework will then be extended to other areas of the University's business as the program matures.

#### 3. BENEFITS

The Business Continuity Management Framework, Business Continuity Policy and associated planning activities ensure the University is able to operate at optimal, predefined levels of service in the event of a major disruption. The Business Continuity Management Framework:

- Ensures that procedures, from the initial business response to recovery and full functionality, are aligned and well understood.
- Clearly defines business continuity roles and responsibilities.
- Outlines the steps required to develop workforce resilience capability and competencies through plans, skills training, and plan validation exercises.
- Identifies the equipment and resources needed to recover and maintain critical services.
- Protects the University reputation/brand.
- Provides the means to identify and engage with key suppliers and contractors regarding business continuity.
- Supports the achievement of strategic and operational objectives.
- Supports compliance with regulatory obligations.
- Mitigates risks to operations, health and safety, property damage, and loss.
- Provides clarity in respect of the overlapping (and separate) duties associated with emergency management planning.

#### 4. RISK GOVERNANCE

Risk governance refers to the culture and arrangements developed by the University to manage the risk to its mission and strategic objectives. It includes leadership, accountabilities, and oversight and is an essential part of the University's overall governance responsibilities.

The Business Continuity Framework is one element of the University's approach to mitigating risk - in this instance, disruption-related risk. The framework provides assurances that responses to disruptions are considered, co-ordinated, comply with regulatory requirements and meet the expectations of all stakeholders, particularly as it relates to the health, safety and well-being of staff, students, and the wider community.

#### **Related Continuity Frameworks and Plans**

There are a number of key frameworks and activities which form an important part of the University's overall business continuity capability. They include:

- Emergency Management Plan.
- ITS Master Disaster Recovery Plan.
- · Risk Management Framework.

Further information on the operation of these plans and framework can be found in the Policy Library on the University website.

#### Sustainability

The staff responsible for the business resilience activities promoted by this framework are encouraged to consider the environment and the sustainability objectives of the University, as described in our Sustainability Strategic Framework 2030. Linking resilience efforts with our sustainability agenda may require some innovation but will result in better overall outcomes for the University and the wider community. Support and advice on methods for reducing the impact on our environment is available from the Office of Sustainability.

#### **Business Continuity Policy**

The Business Continuity Policy is a high level document that outlines the purpose, objectives, and governance arrangements for managing the business continuity programme. It is closely aligned with the Risk Management Policy. A copy of the Business Continuity Policy is located in the Policy Library on the University's website.

#### ESTABLISHING THE BUSINESS CONTINUITY MANAGEMENT FRAMEWORK

The steps involved in the development of the business continuity management framework and associated business continuity plans are summarised in the following table:

Process Step	Step Summary	Tools & Resources
Step 1 Context	<ul> <li>Strategic Objectives Assessment</li> <li>Threat and Resilience Assessment</li> <li>Stakeholder and Regulatory Assessment</li> </ul>	<ul> <li>Strategic plans</li> <li>Organisational charts</li> <li>Interviews</li> <li>Strategic Risk Plan</li> </ul>
Step 2 Leadership	<ul> <li>Establish and communicate roles and responsibilities</li> <li>Adopt a Business Continuity Policy</li> </ul>	<ul> <li>Related frameworks and plans</li> <li>Organisational charts</li> </ul>
Step 3 Planning	<ul> <li>Develop continuity planning approach</li> <li>Articulate key objectives of the programme</li> </ul>	<ul> <li>Professional development training programmes</li> <li>Risk appetite statement</li> <li>Strategic Risk Plan</li> <li>Emergency Management Plans</li> </ul>
Step 4 Support	<ul> <li>Develop training and awareness programme</li> <li>Adopt document management and record keeping protocols</li> <li>Undertake stakeholder analysis and develop communication templates and plan</li> </ul>	<ul> <li>Competencies and training needs analysis</li> <li>Business continuity system (Kuali)</li> <li>Interviews</li> </ul>
Step 5 Operation	<ul> <li>Undertake Business Impact Analysis</li> <li>Assess risks associated with critical functions</li> <li>Identify minimum resource requirements</li> <li>Set service availability strategies</li> <li>Develop Business Continuity Plans</li> <li>Undertake plan validation exercises</li> </ul>	<ul> <li>BIA Survey (Kuali)</li> <li>Workshops</li> <li>Interviews</li> <li>Emergency Management Plans</li> <li>Walk throughs</li> <li>Validation Exercises</li> </ul>
Steps 6 Performance and Improvement	<ul> <li>Develop and monitor key performance indicators</li> <li>Act on outcomes of quality and compliance reviews</li> <li>Undertake post-incident reviews</li> </ul>	<ul> <li>Training records and feedback</li> <li>Audit reports</li> <li>Debrief reports</li> </ul>

Figure 2: Business Continuity Management Framework and Business Continuity Plan development process.

#### 5. Context

The first step in establishing a Business Continuity Management Framework is to undertake a context analysis. It involves the following assessments:

#### **Strategic Objectives Assessment**

- Review the vision, mission, and strategic objectives of the University as articulated in the University's strategic plan and related Divisional/Faculty plans.
- Review the services and resources associated with the achievement of the University's strategic objectives (all outsourced functions or processes associated with the delivery of services will be included in this assessment).

#### Information sources include:

- Functional/process audit reports
- Organisational charts
- High level workshops
- Face to face interviews
- Contemporary documents review (i.e. annual reports, key policies)

#### **Threat and Resilience Assessment**

- Identify threats and potential impacts on critical services.
- Assess corporate preparedness/ existing continuity initiatives.

#### Information sources include:

- Scenario analysis
- Strategic Risk Plan
- Dedicated risk assessment exercise
- Past incidents and near misses

#### **Stakeholder and Regulatory Assessment**

- Identify stakeholders and other interested parties.
- Consider the University's legislative and regulatory obligations.

#### Information Sources:

- Stakeholder analysis
- Interviews with key staff
- Legal compliance register

## 6. Leadership

Overall accountability for the development and implementation of the business continuity framework has been assigned to the Vice-Chancellor by the University Council. The Vice-Chancellor has in turn delegated this responsibility to the Chief Operating Officer. Additional business continuity roles and responsibilities are detailed in the Business Continuity Policy which can be found in the Policy Library on the University's website.

### 7. Planning

The University's approach to business continuity is essentially process-centric or activity-orientated. The framework and underlying activities are designed to minimise the likelihood and impact of threats to core corporate, academic, and research operations. The framework does however recognize that the 'soft' issues of positive staff behaviours and actions can contribute significantly to continuity efforts. On that basis the framework places significant emphasis on staff training and awareness activities, particularly as they relate to legal and regulatory obligations (consider health and safety) and communication protocols (to ensure early warning signals are transmitted to management quickly and efficiently).

#### **Objectives**

Business continuity objectives and associated measures are summarised in the following table:

Objective	Measure
1. Gain executive commitment	<ul> <li>Member of the senior leadership team appointed as the business continuity champion</li> </ul>
	- Business Continuity Policy endorsed by executive
2. Maintain and enhance skills of	- Number of courses attended per year.
staff responsible for business continuity activities	<ul> <li>Achievement of business continuity competency objectives detailed in staff performance and development plans.</li> </ul>
3. Define the business impacts of critical services	<ul> <li>Business Impact Analysis – identification of critical functions together with recovery time objectives, resources requirements, minimum levels of service.</li> </ul>
4. Identify and evaluate threats to	- Risk assessment.
key operations	<ul> <li>Documented risk mitigation strategies for key operations not covered by continuity plans.</li> </ul>
5. Incident management structure	- Incident communication protocols in place.
established	- Incident management teams in place.
6. Business continuity plans	- Procedures for each campus documented.
developed	- Procedures validated by exercises.
7. Business continuity team	- Observation during validation exercises.
members familiar with roles and responsibilities	- Post-exercise debrief and feedback.
8. Corporate business continuity	- Business Continuity Policy and plans up-to-date.
capability maintained	- Cyclical plan for validation exercises in place.

In order to keep the implementation of the framework manageable, business continuity plans will be developed using a campus-based approach. The risks associated with the loss of critical functions will be subject to a formal risk assessment. The outcomes of the assessment will be used to prioritise functions and the subsequent development of continuity plans. Contingency plans/risk mitigations strategies will also be developed for significant functions not included in the plans. It is anticipated that as the programme matures these significant functions will be progressively included in continuity plans as the plans are updated/revised.

### 8. Support

#### **Awareness and Training**

To increase the knowledge and skills of staff, awareness and training activities will be conducted on a regular basis with the following target audiences:

- Senior Management in the form of briefings to help them understand their business continuity leadership role.
- Staff with specific business continuity responsibilities fire evacuation wardens, health and safety staff, Campus Watch, and others detailed in the 'Roles and Responsibilities' contained in the Business Continuity Policy.
- General staff basic knowledge about the value of business continuity initiatives, information that complements emergency management training.
- Critical vendors raise awareness of the University's business continuity programme, specific training may be required to raise vendor capabilities.

Training will cover the overlapping duties associated with emergency management planning and business continuity procedures. The training be facilitated by the Office of Risk, Assurance and Compliance. Additional ad-hoc training will also be provided as required/on request.

#### Documentation

Business continuity related documentation will be protected to ensure there is no loss of confidentiality or integrity. It will be maintained on the University's business continuity system (Kuali) and be readily available for use by authorised staff.

#### **Internal and External communications**

Communications during a disruption of normal activities is set out in the University's Emergency Management Plan, where the definition of an emergency is described as any event that causes disruption to the normal functions of the University.

# Implementation and Operation of the Business Continuity Management Framework

## 9. Operation

#### 9.1 Business Impact Analysis

The Business Impact Analysis (BIA) helps to determine the recovery priorities, objectives, and targets of the business continuity programme. During the analysis, the activities that support the provision of services are identified and the impacts over time of not performing these activities is considered. Elements of the BIA include:

#### a) Identification and Classification of Key Functions

The purpose of the evaluation is to assess what critical functions need to be recovered and in what order of priority. Decisions should be made in accordance with legal/regulatory and health and safety requirements and include a consideration of available resourcing and the University's appetite for risk.

**Critical functions** are directly responsible for the delivery of services; these functions enable the University to achieve its strategic objectives and comply with legal and regulatory requirements.

**Critical-supporting functions** provide outputs to critical functions, without which the critical function could not operate. If they are the only source of supply to the critical function they are classified as single points of failure.

**Supporting functions** provide support to the critical and critical-supporting functions. Their failure during an incident does not immediately compromise the University's ability to achieve its strategic objectives and comply with legal and regulatory requirements.

When deciding what constitutes a critical function, consideration is given to the University's key objectives and obligations and how they are achieved. The outputs required to meet these objectives and obligations are identified during the BIA together with the underlying functions that deliver those outputs. This process also includes an evaluation of the timeframes in which the objectives and obligations need to be achieved.

#### b) Assessment of Recovery Timeframes

Prioritised timeframes for the resumption of critical functions are established and incorporated into subsequent planning activities i.e.

- **Maximum Tolerable Period of Disruption (MTPD)**, the maximum time period that the University could operate without a critical function, after which the impact would become unacceptable.
- **Recovery Time Objective (RTO)**, the time period in which a critical function must be recovered. Note The RTO should always be shorter than the MTPD.
- **Recovery Point Objective (RPO)**, the point in time in which key activities should be restored to after an incident, i.e. consider data integrity and information technology system outages.

#### c) Identification of Dependencies

The identification of dependencies and the supporting resources for these activities assist in the prioritisation of critical functions and recovery strategies. Upstream dependencies include suppliers, contractors and outsourcing partners, whereas Downstream dependencies are those who rely on the outputs of the area writing the BCP.

#### d) Information Collection

The most common data collection methods are questionnaires, personal interviews and documentary reviews. These activities are undertaken prior to the workshops where the BIA outcomes are evaluated and endorsed.

The outputs of the BIA include:

- A prioritised timeline of activities for the recovery of the University's critical functions.
- A Business Continuity Resource Requirements Analysis containing the necessary resources to achieve the prioritised recovery of critical functions (refer Part 9.4 below, Evaluation and Selection of Business Continuity Strategies).
- A list of internal and external dependencies of critical functions.
- Controls that can be put in place pre-event to minimise or eliminate the impact of an event on a critical function.

The BIA will be refreshed/undertaken on at least an 18 monthly basis to ensure continuity strategies remain relevant and focused.

#### 9.2. Risk Assessment

After identifying critical functions and supporting resources the next stage in the process is a risk assessment. A risk assessment is undertaken to ensure that business continuity efforts are focussed on those critical functions most at risk and that would have the greatest impact on the University. It is also used to develop an understanding of the interdependencies amongst different critical functions in order to determine single points of failure or areas where there is a high concentration of risk.

Business continuity risk assessments use established risk assessment techniques as described in the University's Risk Management Framework. A copy of the framework can be found on the University's website.

An alternative and less resource intensive approach is to undertake a detailed review of the University's risk plans. This activity also provides an overall view of the risk profile of the University and its Divisions.

#### 9.3 Resource Requirements Analysis

This activity identifies the minimum resources required to maintain critical functions and together with the BIA, assists in the further development of business continuity strategies.

The following considerations should be taken into account when undertaking the analysis.

#### a) People

- Training transfer/develop core skills associated with the delivery of critical functions amongst a wider group of staff.
- Diversification different work locations for key staff, separate travel arrangement plans.
- Procedures and guidelines document how critical functions are performed.
- Succession planning identify backup staff.
- Specialist third parties engagement of contractors to perform critical functions.

#### b) Premises

- Secondary locations alternate work locations to house critical functions.
- Flexible working arrangements temporary arrangements using business centres, client offices and working from home.
- Reciprocal arrangements agreements with other organisations to share each other's premises and facilities.

#### c) Information

- Backup and recovery methods and effectiveness of recovery processes.
- Confidentiality of information adequacy of safeguards.
- Availability information format, hardcopy or electronic, and storage locations.
- Currency accuracy and reliability of information.

#### d) Technology

- Power the provision of an uninterrupted power system (UPS) for critical technology or infrastructure.
- Network voice and data communications and network availability.
- Backup storage security and portability.
- Hardware and software backup, repair, replace, or temporary loan options.

Note – the University's ITS Master Disaster Recovery Plan addresses strategic/major technology risks. Information Technology Services should be consulted if the identified technology requirements are significant or if any uncertainties exist in terms of resourcing.

#### e) Supplies

- Buffer stocks emergency supplies.
- Contractual agreements arrangements with third-party suppliers to deliver stocks on short notice.
- Alternative sourcing availability of a wide selection of critical suppliers.
- Validation of business continuity suppliers to demonstrate business continuity capability (helps to ensure resilience in supply chain network).

#### 9.4 Evaluation and Selection of Business Continuity Strategies

A business continuity strategy describes how the University will recover each critical function within the Recovery Time Objective established during the Business Impact Analysis activity. It details resourcing requirements and sets out how relationships with key stakeholders will be managed at the time of disruption.

#### **Availability of Services**

There are three levels at which strategies can be set:

- Full availability critical services cannot fail.
- Critical services recovered within RTO's (Recovery Time Objectives) at an agreed minimum level.
- Suspend critical functions.

If the strategy chosen is to suspend a critical function during a disruption a communication protocol should be developed for informing stakeholders who have an interest in the critical function that is to be suspended.

#### **Strategy Selection**

The following factors should be considered when evaluating and selecting a strategy for each critical function:

- Business requirements.
- The agreed recovery time objectives (RTO's).
- The maximum tolerable period of disruption for each service.
- The key resources required, e.g. people, premises, technology, information, and supplies.
- Costs of implementing the strategies compared to the speed of recovery.
- Recovery phase (partial or full resumption).
- Consequences of inaction.
- The business impact analysis and risk assessments.

#### **Consolidation of Recovery Resources**

This activity re-evaluates the resources needed to implement continuity strategies associated with each critical function. It ensures that the resources associated with continuity strategies do not conflict with one another are reasonable and achievable and/or fall within predetermined continuity budgets. The outcomes of the consolidation process are summarised in Business Continuity Resource Requirements Analysis.

#### Approval

Business continuity strategies are to be agreed with and signed off by the head of each Division and then submitted to the Vice-Chancellor (or delegate) for endorsement before Business Continuity Plans are developed.

#### 9.5 Business Continuity Plans

Business Continuity Plans contain the procedures necessary for the maintenance of critical functions. They provide the staff with the information needed for the development of reduction, response and recovery plans to a disruptive incident and to access the resources needed to implement predetermined continuity strategies.

The University operates across multiple locations and on that basis has adopted campus-based plans in which the critical functions of the campus as a whole are considered when formulating and prioritising responses to disruptive incidents. The plans are not intended to address every eventuality as the nature of individual incidents may vary. Responses to disruptions therefore need to be flexible in approach and actions may need to be adapted according to the circumstances.

#### **Business Continuity Plans outline:**

- Purpose and scope.
- · Objectives.
- Activation criteria and procedures.
- Roles, responsibilities, and authorities.
- Internal and external communication requirements and procedures media, staff, students, and stakeholders.
- Internal and external interdependencies and interactions.
- Resource requirements.
- Information flow and documentation processes.
- Stated assumptions and identification of dependencies.

#### **Business Continuity Plan Activation**

Business continuity plan activation and stand-down (following resumption of normal activity) will be consistent with the authorities detailed in the Emergency Management Policy and Emergency Management Plan. The authority to activate business continuity plans rests with the Vice- Chancellor/Incident Controller/Chief Operating Officer. For campuses in Christchurch and Wellington the Incident Controller is the Business and Operations Manager, unless otherwise directed by the Dean of the campus. The Incident Controller in Invercargill is the Operations Coordinator.

It is anticipated that in the majority of instances the activation of business continuity plans will be one of many coordinated actions taken by the Vice-Chancellor/Incident Controller/Chief Operating Officer in response to an emergency or disruption to services on campus. On that basis staff are expected to escalate any matters involving a campus emergency or disruption to services to management and/or the Proctor's Office - the procedures detailed in the Business Continuity Framework and Business Continuity Plans support (do not replace) these established communication pathways.

#### 9.6 Relationship to Emergency Management

Business continuity planning and Emergency Management are closely interconnected and reinforce each other's effectiveness. Business continuity planning lays the groundwork by identifying risks, assessing impacts, and developing strategies to ensure the continuity of critical business functions. The plans and procedures developed through business continuity serve as a framework for effective emergency response and recovery.

During an emergency, the Strategic Emergency Management Group and Campus Incident Management Teams utilises the BCPs as a guide to implement response and recovery measures. Business continuity planning provides the necessary function priorities, communication channels, and resource requirements to address the incident effectively.

The Emergency Management Policy and Plan set out the structure, roles and processes that are followed during a disruptive event.

#### 9.7 Business Continuity Plan Validation

The purpose of plan validation is to develop staff skills and confidence and to assess the quality of the Business Continuity Plan and associated activities. By exercising the emergency response plans that have been developed based on the information gathered from business continuity plans, the assumptions in the business continuity plans are being tested. Exercises are designed to identify false assumptions and unrealistic recovery time objectives. The exercises can also be used to involve and assess the overall business continuity capability of critical suppliers.

An important component of an exercise is the testing of communications intended to be used during a disruption i.e. availability and alternatives.

The exercises will also be based on realistic scenarios with clearly defined aims and objectives.

When commencing an exercise appropriate staff and stakeholders will be notified prior to the exercise (i.e. Campus Safety, reception areas). This will help to avoid situations where the exercise could be mistaken for a real event and create a disruption. On that basis procedures for aborting an exercise will also be considered prior to the exercise commencing.

Following an exercise, debriefs will also be held to identify lessons learned and opportunities for improvement.

Exercises will be matched to the business continuity maturity level of the University.

# Monitoring and Improving the Business Continuity Management Framework

# 10. Performance Evaluation and Improvement

The following Key Performance Indicators (KPI's) will be maintained and reported to the Audit & Risk Committee:

КРІ	Measure	Frequency
Tests and debriefs conducted as part of annual emergency exercises	Count	Annually
Workshops and training sessions	Count	Quarterly
% of plans updated within the last 12 months	% and Count	Quarterly

The programme will also be independently audited to ensure it confirms to the requirements articulated in the Business Continuity Policy and the broader directions maintained in the Business Continuity Management System Standard ISO 22301:2019.

If Business Continuity Plans have been activated in response to a disruption a post-incident review will be conducted and the outcomes used to improve/strengthen associated procedures and activities.

#### 11. Contact Information

For further information regarding the Business Continuity Management Framework contact the Office of Risk, Assurance and Compliance at <a href="mailto:risk.management@otago.ac.nz">risk.management@otago.ac.nz</a>

## **Glossary of Terms**

#### Activity

A set of one or more tasks with a defined output.

#### **Business Continuity**

Capability of the organisation to continue delivery of products or services within acceptable time frames at acceptable predefined capacity during a disruption.

#### **Business Continuity Management**

Holistic management process that identifies potential threats to an organisation and the impacts to business operations those threats, if realised, might cause, and which provides a framework for building organisational resilience with the capability of an effective response that safeguards the interests of its key stakeholders, reputation, brand and value-creating activities.

#### **Business Continuity Plan**

Documented information that guides an organisation to reduce risk, respond, recover, resume, and restore to a pre-defined level of operation during a disruption.

NOTE Typically this covers resources, services and activities required to ensure the continuity of critical business functions.

#### **Business Impact Analysis**

Process of analysing the impact over time of a disruption on the organisation

#### **Event**

An incident, occurrence or change of a particular set of circumstances, a situation that might be, or could lead to, a disruption, loss, emergency or crisis.

#### **Exercise**

Process to train for, assess, practice, and improve performance in an organisation.

#### Maximum Tolerable Period of Disruption (MTPD)

Time it would take for adverse impacts, which might arise as a result of not providing a product/service or performing an activity, to become unacceptable.

#### **Prioritised Activities**

Activities to which priority must be given following an incident in order to mitigate impacts.

#### Recovery Point Objective (RPO)

Point to which information used by an activity must be restored to enable the activity to operate on resumption, usually applied to data held on information technology systems.

NOTE Can also be referred to as "maximum data loss".

#### Recovery Time Objective (RTO)

Period of time following an incident within which:

- product or service must be resumed, or
- activity must be resumed, or
- Resources must be recovered.

NOTE For products, services and activities, the recovery time objective must be less than the MTPD

#### Resources

All assets, people, skills, information, technology (including plant and equipment), premises, supplies, and information (whether electronic or not) that an organisation has to have available to use, when needed, in order to operate and meet its objective.

#### **Risk Appetite**

Amount and type of risk that an organisation is willing to pursue or retain.

#### Stakeholder

Person or organisation that can affect, be affected by, or perceive themselves to be affected by a decision or activity.

Source: Security and resilience – Business Continuity Management Systems, ISO 22301:2019

# Appendices:

- 1. Disruptive Events
- 2. Risk Rating/Classification Table
- 3. Business Continuity Plan Validation Programme

Examples of events that could seriously impact critical corporate, academic and research functions:

People	<ul> <li>Shortage of staff</li> <li>Prolonged industrial dispute</li> <li>Bomb threat/ serious act of violence</li> </ul>
Premises	<ul> <li>Loss of facility</li> <li>Denial of access to premises</li> <li>Utility failure (i.e. electricity, water)</li> </ul>
Technology	<ul><li>Prolonged loss of network</li><li>Loss of data</li><li>Cyber attack</li></ul>
Supplies	<ul> <li>Failure of key supplier</li> <li>Failure of outsourced provider</li> <li>Loss of critical resources</li> </ul>
Environmental	<ul> <li>Flood, earthquake, or fire</li> <li>Pandemic</li> <li>Serious contamination/Hazmat incident</li> </ul>

# Appendix 2

Overall Risk (L X I)	Likelihood (L)	Impact (I)	Risk Rating/Classification - Corporate/Division	Required Action
Very High ≥15	<ul> <li>(5) Almost Certain</li> <li>Will undoubtedly happen</li> <li>Greater than 80% chance</li> </ul>	(5) Very Serious	<ul> <li>Potential financial impact of \$10,000,000 (Corp.)/\$1,000,000 (Div.) or more in any 12 mth period</li> <li>Detrimental impact on operations or major projects</li> <li>Sustained loss in reputation</li> <li>Sustained impact on services delivery or quality</li> <li>Loss of public confidence in the University</li> <li>Contractual, legislative, or regulatory non-compliance with certain litigation</li> <li>Life threatening</li> </ul>	Immediate notification to     Audit & Risk Committee     Requires immediate     VC/DVC/PVC/Senior     Management attention     Requires a detailed risk     treatment plan within 30 days
High 10-14	<ul><li>(4) Probable</li><li>Will probably happen</li><li>50 - 80% chance</li></ul>	(4) Serious	<ul> <li>Potential financial impact of \$5,000,000 (Corp.)/\$500,000 (Div.) or more in any 12 month period</li> <li>Major impact on operations or major projects</li> <li>Serious loss in reputation</li> <li>Serious impact on services or quality</li> <li>Probable loss of public confidence in the University</li> <li>Contractual, legislative, or regulatory non-compliance with probable litigation</li> <li>Extensive injuries</li> </ul>	<ul> <li>Requires prompt senior management action/ attention</li> <li>Requires a detailed risk treatment plan within 60 days</li> <li>Reported to Audit &amp; Risk Committee</li> </ul>
Medium 5 – 9	<ul><li>(3) Likely</li><li>Might happen</li><li>20 - 50% chance</li></ul>	(3) Moderate	<ul> <li>Potential financial impact of \$2,000,000 (Corp.)/\$200,000 (Div.) or more in any 12 month period</li> <li>Moderate impact on operations or major projects</li> <li>Short-term loss in reputation</li> <li>Moderate decline in services or quality</li> <li>Possible loss of public confidence in the University</li> <li>Contractual, legislative, or regulatory non-compliance with potential for litigation</li> <li>Minor injuries</li> </ul>	<ul> <li>Requires ongoing management of control effectiveness</li> <li>Manage by specific monitoring or response procedures</li> <li>May require a risk treatment plan</li> </ul>
Low 3 - 4	<ul> <li>(2) Unlikely</li> <li>Not expected to happen</li> <li>5 - 20% chance</li> </ul>	(2) Minor	<ul> <li>Potential financial impact of \$1,000,000 (Corp.)/\$100,000 (Div.) or more in any 12 month period</li> <li>Minor impact on operations or major projects</li> <li>No loss in reputation</li> <li>Minor impact on services or quality</li> <li>No loss of public confidence in the University</li> <li>Contractual, legislative, or regulatory non-compliance but litigation unlikely</li> <li>Potential for injury</li> </ul>	<ul> <li>Manage by routine procedures</li> <li>Monitor control effectiveness by local management</li> <li>May require a risk treatment plan</li> </ul>
1 - 2	(1) Rare • Less than 5% chance.	(1) Negligible	Potential financial impact of \$1,000,000 (Corp.)/\$100,000 (Div.) or less in any 12 month period	Impact to be absorbed by daily business running costs or managed through routine procedures

Overall Risk	Likelihood (L)	Impact (I)	Health and Safety
Very High > 15	(5) Almost Certain	(5) Very Serious	Life threatening:  Loss of life(s)  Major health and safety incident involving staff or members of the public  Permanent disability  Permanent ill-health
High 10 - 14	(4) Probable	(4) Serious	Loss of life     Significant health and safety incident involving staff or members of the public     Multiple serious injuries     Long term illness/disability
Medium 5 - 9	(3) Likely	(3) Moderate	Minor injuries:  Possible hospitalisation Numerous days lost Short term illness
Low 3 - 4	(2) Unlikely	(2) Minor	Potential for injury:  • Medical/ First Aid treatment required • Some days lost
Near Miss 1 - 2	(1) Rare	(1) Negligible	No injuries:  • Report, record and review.

Overall Risk	Likelihood (L)	Impact (I)	Project Management	
Very High ≥15	(5) Almost Certain	(5) Very Serious	Detrimental impact on operations or major projects: Capital cost impact – specific to project Recurrent cost impact exceeds \$5,000,000 Table and the slippage Catastrophic impact on project objectives, identified benefits, deliverables Multiple irreversible injuries/illness or	
High 10 - 14	(4) Probable	(4) Serious	Major impact on operations or major projects:  1 Capital cost impact – specific to project  Recurrent cost impact exceeds \$1,500,000  2 months slippage  Significant impact on project objectives, identified benefits, deliverables  Irreversible injury/illness, permanent disability or fatality	
Medium 5 - 9	(3) Likely	(3) Moderate	Moderate impact on operations or major projects:         Capital cost impact – specific to project         Recurrent cost impact exceeds \$300,000         1 month slippage         Some impact on project objectives, identified benefits, deliverables         Serious injury/illness – lost time of more than 4 days	
Low 3 - 4	(2) Unlikely	(2) Minor	<ul> <li>Minor impact on operations or major projects:</li> <li>1Capital cost impact – specific to project</li> <li>Recurrent cost impact exceeds \$75,000</li> <li>2 weeks slippage,</li> <li>Small impact on project objectives, identified benefits, deliverables</li> <li>Injury/ illness – lost time of less than 4 days</li> </ul>	
1 - 2	(1) Rare	(1) Negligible	Capital cost impact – specific to project     Recurrent cost impact less than \$75,000	

The following are a series of activities that tests different components of the business continuity plans. The program encompasses all of the University's campuses.

Element	Description	Frequency	Duration	Prerequisite	Responsibility
1. Call Tree & Notification Exercise	An exercise to be run during and outside business hours to test the notification and call tree procedures contained in the Business Continuity Plans. This will aid verification of call tree procedures and reliability of contact details/ availability of key staff.	1 x per year	1-2 hours	None	Office of Risk, Assurance and Compliance
2. BCP Training / Familiarisation	Key employees will undergo general business continuity training, the content and objectives of the plans will be refreshed. Key employees with an active role in plan activation procedures will be involved in a more detailed BCP walkthrough / training exercise session.	1 x per year	2-3 hours	None	Office of Risk, Assurance and Compliance
3. Desktop Exercise	Desktop exercises will be a progressive event involving the application of varying scenarios to test different business functions. This will be an opportunity for employees with an active role to retain and upgrade their skills and knowledge of business continuity and continuity strategies.  Note: Elements 2 and 3 may be undertaken jointly as appropriate.	1 x per year	2-3 hours	BCP Training/ Familiarisation	Office of Risk, Assurance and Compliance
4. Simulation Exercise	The simulation exercise will be a comprehensive scenario based exercise conducted at each campus and focused on major risks faced by each campus. It will involve third parties where appropriate i.e. Police, Fire, Ambulance. These exercises will be undertaken when the framework is sufficiently mature.	1 every 2 years	4 hours	BCP Training/ Familiarisation	Office of Risk, Assurance and Compliance