



June 2019



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# Year 3 Project Report

Building our collective resilience



## Executive Summary

We can't predict earthquakes but we can prepare for them. AF8 [Alpine Fault magnitude] is an award-winning programme of scientific modelling, response planning and community engagement designed to build our collective resilience across the South Island to a future Alpine Fault earthquake. The first three years of the project have been funded by the Ministry of Civil Defence & Emergency Management's (MCDEM) National Resilience Fund and led by the 6 South Island Civil Defence Emergency Management (CDEM) groups. Emergency Management Southland is the administering authority for the project.

Years 1 and 2 proved successful in raising awareness and improving cooperation across regional boundaries, providing the basis for informed conversations around preparing for an Alpine Fault rupture with the creation of a credible science-based scenario, the development of the SAFER (South Island Alpine Fault Earthquake Response) Framework and through the generation of national media content.

Year 3 has built on these successes with increased emphasis on engagement and communication. The SAFER Framework was launched at the National Lifeline Utilities Forum in October 2018, with its accompanying Implementation Plan being adopted by the 6 South Island CDEM groups in March 2019. This work was recognised at the SOLGM Local Government Excellence® Awards where the project was awarded the BERL Award for Collaborative Government Action. The judges described the project as an exemplar of emergency management planning that agencies around the world should emulate. AF8 also received a Highly Commended at the 2018 EMPA Awards for Excellence, in Readiness and Resilience, for our video series raising awareness of the hazards posed by the Alpine Fault.

The first *AF8 Roadshow: The Science Beneath Our Feet* toured the South Island in March-April 2019 visiting 14 communities, including 11 schools, and hosting well-attended public talks presented by leading Alpine Fault scientists at each location. The AF8 website and branding were refreshed and new social media channels added to support the delivery of clear and consistent communications and extend the visibility of the project and its objectives. This work provides the foundation for the new AF8 Communications Plan to be completed in July 2019, which will inform AF8's ongoing communication and engagement work in Year 4.



# Contents

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Project Timeline .....	3
Year 1 (July 2016 – June 2017).....	3
Year 2 (July 2017 – June 2018).....	3
Year 3 (July 2018 – June 2019).....	3
Year 4 (July 2019 – June 2020).....	3
SAFER Framework and Implementation Plan .....	4
Project Communications .....	5
Website .....	5
Youtube .....	5
Mailchimp e-newsletter .....	6
Facebook.....	6
Outreach and Community Engagement.....	8
Feedback from teachers .....	8
Regional Natural Hazard Programme Alliances .....	9
Project Governance and Management .....	10
Project Finance.....	10
Appendix 1: Year 3 Project Plan .....	11
Appendix 2: AF8 Communication Plan Overview .....	16
Appendix 3: Year 4 Workplan Overview.....	17

# Project Timeline

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## Year 1 (July 2016 – June 2017)

Year 1 commenced with the Science Workshop in October 2016, which provided the persuasive and pragmatic hazard scenario basis for the 6 CDEM Group area planning workshops that followed in 2016 to mid-2017. The workshops brought together a wide range of between 30 and 130 emergency response stakeholders in each South Island CDEM Group area, to explore the impact, consequences, needs, and necessary response actions and resources for the first seven days of response to a major Alpine Fault earthquake and associated hazards.

## Year 2 (July 2017 – June 2018)

Year 2 of AF8 focussed on developing the South Island Alpine Fault Earthquake Response (SAFER) Framework, which built on the CDEM group workshops and a series of functional workshops with key stakeholders, including health, emergency services and others. The framework involved a collaborative writing process, led by Jon Mitchell (AF8 Programme Manager 2016-2018).

Several short videos and more detailed science talks were also produced. These were launched online in May 2018 as public education tools to raise awareness of the Alpine Fault hazard. A report on the impact predictions from an AF8 event was commissioned using GNS Science's RiskScape modelling package. Understanding the limitations of the modelling and using these outputs appropriately will provide guidance for the planned national exercise in late 2020. A successful bid for Year 3 funding was made, allowing the recruitment of an AF8 Coordinator.

## Year 3 (July 2018 – June 2019)

Year 3 marks AF8's transition from a response planning project to a longer-term sustainable programme of work. The SAFER Framework was launched, detailing the science-based scenario, providing greater coordination between CDEM Groups and outlining the roles and responsibilities of partner agencies. A SAFER Implementation Plan was adopted by the 6 South Island CDEM groups in March 2019. It provides guidance on the development of the capabilities necessary for partner organisations to deliver the response objectives outlined in the framework. Work towards the 2020 national exercise began in March 2019 and will continue into Year 4, with further scientific input into the RiskScape results to ensure they are robust and appropriate.

A key focus of Year 3 has been communications and engagement. This work is represented in the design and delivery of the successful AF8 Roadshow, refreshed website and branding, increased social media engagement through new and existing channels and the development of the new AF8 Communications Plan, to be completed in July 2019.

The project plan for Year 3 is attached as Appendix 1.

## Year 4 (July 2019 – June 2020)

Year 4 will continue to build on the project's achievements in coordination, communication and co-creation, through four key work streams: Response, Engagement, Risk Communication and Recovery. Funding to continue the employment of an AF8 Coordinator for Year 4 has been provided by the 6 South Island CDEM groups. Co-funding support from Resilience to Nature's Challenges and QuakeCoRE will support the development of Risk Communications activities and materials.



## SAFER Framework and Implementation Plan

The SAFER (South Island Alpine Fault Earthquake Response) Framework was launched at Lifeline Utilities Forum in October 2018. The framework represents the culmination of two years of collaboration and kōrero between researchers, organisations, agencies and community groups. This work was recognised at the SOLGM Local Government Excellence® Awards where the project was awarded the BERL Award for Collaborative Government Action. The judges described the project as an exemplar of emergency management planning that agencies around the world should emulate, noting that the project joins effective communication of robust science with the skill, foresight and commitment that effective emergency management requires.

To date 300+ printed copies have been circulated through the South Island CDEM Groups. A further 250+ copies of the framework have been downloaded from the AF8 website since October 2018: [projectaf8.co.nz/safer-framework/](http://projectaf8.co.nz/safer-framework/). A video introducing SAFER was also produced to support the socialisation of the framework. The video outlines the framework and its objectives, and has proved a useful presentation tool.

SAFER is intended to be a living framework – to be reviewed following the next MCDEM National Exercise in late 2020, which will focus on the AF8 Scenario. The SAFER Feedback Form was launched online in December 2018. This form is designed to collect feedback from stakeholders and partner agencies and facilitate discussion in the lead up to the 2020 exercise: [projectaf8.co.nz/safer-feedback/](http://projectaf8.co.nz/safer-feedback/).

The SAFER Implementation Plan was adopted by the South Island CDEM groups March 2019. This plan provides guidance on the development of the capabilities necessary for partner organisations to deliver the response objectives outlined in the framework.



Above: SAFER Framework launch at the National Lifelines Forum, Wellington, October 2018.

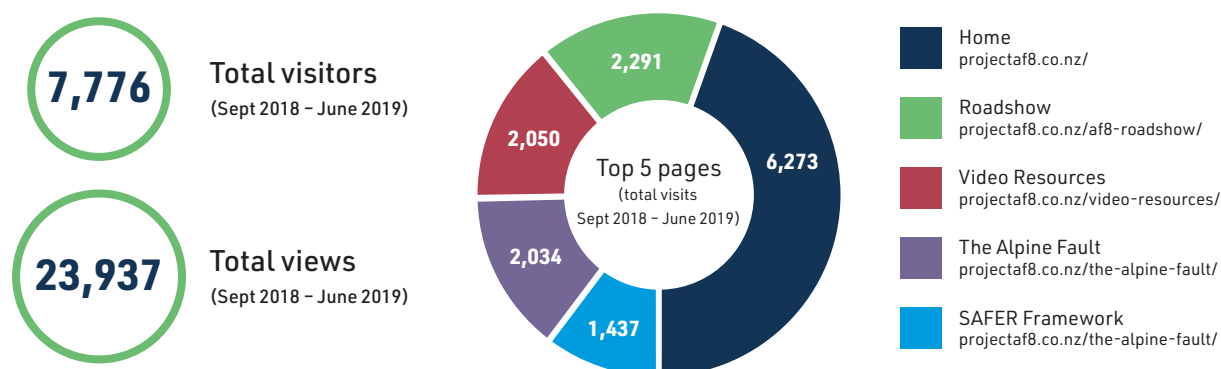
Left: SAFER Framework cover image.

## Project Communications

This year has seen an increased focus on communications and public information management, primarily using digital media to raise awareness and monitor engagement through multiple channels including: the AF8 website, YouTube channel, E-Newsletter, Facebook page and more recently the addition of Twitter and Instagram. Insights from these channels are summarised below (excepting Twitter and Instagram). A new AF8 Communications Plan will be completed in July 2019 (an overview is attached as Appendix 2). This plan will use insights from Year 3 and a base from which to measure engagement, grow our reach and facilitate discussion around the Alpine Fault hazard and its potential impacts in Year 4.

### Website

The AF8 website is central to the projects communications and public information. The site design and content were refreshed in September 2018, reflecting the projects transition from a focus on response planning to include wider programme of communication and public engagement. This included the addition of web analytics to monitor the sites performance as a key communication tool.



### Youtube

The video resources developed in Year 2 of the project and the SAFER Framework video are now hosted on a dedicated AF8 YouTube channel. Closed captions have also been added to all videos, increasing accessibility to deaf audiences and those hard of hearing. Total views and watch time of these is shown in the following table.

Total views and watch time per video	Views	Watch Time (mins)
May 2018 - June 2019		
AF8 - What Is The Alpine Fault (2:29 mins)	7,882	14,780
AF8 - A Multi Agency Response (2:49 mins)	1,668	2,943
AF8 - Building Community Resilience (2:07 mins)	1,252	1,832
AF8 - Business Resilience (2:37 mins)	812	1,432
AF8 Science Talk - What will a large earthquake feel like? (2:49 mins)	3,970	43,791
AF8 Science Talk - Evidence for past large earthquakes (17:52 mins)	5,227	41,230
AF8 Science Talk - Impacts of an Alpine Fault Quake (27:23 mins)	4,727	31,070
AF8 Science Talk - Planning for the next big earthquake (27:25 mins)	2,180	20,145
October 2018 - June 2019		
AF8 SAFER Framework (6:43 mins)	1,471	5,438

## Mailchimp e-newsletter

The AF8 e-newsletter was moved from a website-based system to Mailchimp in September 2018 to enable better monitoring of who we are speaking with and where they are located. This list has almost doubled in size in Year 3. The majority of our e-newsletter audience are located in New Zealand (60.7%), around a quarter are located in the United States (25.9%) and the rest are predominantly located in Australia and Europe.

Mailchimp	Year 1-2	Year 3	Total (June 2019)
Contacts	203	181	384

## Facebook

The AF8 Facebook page remains a key communication channel for engaging with the projects wider audience and promoting activities. Likes and follows to the page have grown steadily in Year 3, as shown in the table below. The channel will be developed further in Year 4 with more focus on fostering discussion and facilitating audience feedback. Total reach of the page is best illustrated in the three top posts of Year 3, as shown in the graphics below.

Facebook	Year 1-2	Year 3	Total (June 2019)
Likes	539	373	912
Followers	588	385	973

**Post Details**

**AF8**  
Published by Alice Lake-Hammond [?] · 15 October 2018 · [?]

**Introducing the SAFER Framework – a collaboration for resilience.**  
This morning we launched the SAFER Framework at the National Lifelines Utilities Forum in Wellington.  
The South Island Alpine Fault Earthquake Response (SAFER) Framework sets out a concept for coordination in response planning to prepare for an Alpine Fault magnitude 8 earthquake and associated hazards. ...  
[See more](#)

**AF8 SAFER Framework**  
The South Island Alpine Fault Earthquake Response (SAFER) Framework provides a concept of coordination of response and priority setting...

**Performance for your post**

**17,633** People Reached

**125** Likes, Comments & Shares

<b>100</b> Likes	<b>73</b> On Post	<b>27</b> On Shares
<b>6</b> Comments	<b>6</b> On Post	<b>0</b> On Shares
<b>19</b> Shares	<b>19</b> On Post	<b>0</b> On Shares

**239** Post Clicks

<b>0</b> Photo views	<b>78</b> Link clicks	<b>161</b> Other Clicks
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**NEGATIVE FEEDBACK**

**1** Hide Post    **0** Hide All Posts  
**0** Report as Spam    **0** Unlike Page

Insights activity is reported in the Pacific time zone. Ad activity is reported in the time zone of your ad account.

**17,633** People reached    **364** Engagements    [Boost again](#)

**Boosted on 15 Oct 2018** By Alice Lake-Hammond    **Completed**

People reached	<b>13.8K</b>	Link clicks	<b>39</b>
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[View results](#)

**Ricky Van Enkevort, Carol Stewart and 67 others** · 4 Comments · 19 shares

[Like](#)    [Comment](#)    [Share](#)


**Post Details**

**AF8**  
Published by Alice Lake-Hammond [?] · 4 March · 🌐

Bringing Alpine Fault science and hazard impact information to South Island communities, in areas most likely to be affected by an AF8 earthquake.

The AF8 Roadshow will be visiting 12 communities around the South Island, working with local schools and hosting a series of Public Science Talks – March 26 until 13 April 2019.

<https://mailchi.mp/.../af8-roadshow-the-science-beneath-our-f-...>



MAILCHIMP  
**AF8 Roadshow: The Science Beneath Our Feet** [Learn More](#)  
Bringing Alpine Fault science and hazard impact...

**17,836** People reached    **579** Engagements    [Boost again](#)

Boosted on 4 Mar 2019 By Alice Lake-Hammond Completed

People reached	<b>10.0K</b>	Link clicks	<b>188</b>
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[View results](#)

👍❤️ Anne Thomson, Arpi Procter and 29 others    4 Comments 25 shares

👍 Like    💬 Comment    ➦ Share    🌐

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**Performance for your post**

**17,836** People Reached

**147** Reactions, comments & shares 📊

<b>95</b> Like	<b>32</b> On post	<b>63</b> On shares
<b>2</b> Love	<b>1</b> On post	<b>1</b> On shares
<b>1</b> Wow	<b>0</b> On post	<b>1</b> On shares
<b>17</b> Comments	<b>5</b> On Post	<b>12</b> On Shares
<b>32</b> Shares	<b>25</b> On Post	<b>7</b> On Shares

**432** Post Clicks

<b>0</b> Photo views	<b>216</b> Link clicks 📊	<b>216</b> Other Clicks 📊
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**NEGATIVE FEEDBACK**

<b>2</b> Hide Post	<b>0</b> Hide All Posts
<b>0</b> Report as Spam	<b>0</b> Unlike Page

Insights activity is reported in the Pacific time zone. Ad activity is reported in the time zone of your ad account.


**Post Details**

**AF8**  
Published by Alice Lake-Hammond [?] · 28 April · 🌐

GNS Science Principal Scientist Kelvin Berryman says "it's certainly time to be prepared".

"It is one of the most likely events to occur in New Zealand and it will be serious."

Anything we do now will make all the difference after an earthquake. Taking actions to be more prepared will make life easier during and after an emergency like an Alpine Fault earthquake. ... See more



TVNZ.CO.NZ  
**'Time to be prepared' - South Island's Alpine Fault communities briefed on big quake likely in lifetime of many**

✔️ **Get more likes, comments and shares**  
Boost this post for \$14 to reach up to 2,800 people.

**6,911** People reached    **1,259** Engagements    [Boost Post](#)

👍😄👍 Patrick Timm, Kathy Watkins and 35 others    1 Comment 41 shares

👍 Like    💬 Comment    ➦ Share    🌐

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**Performance for your post**

**6,911** People Reached

**208** Reactions, comments & shares 📊

<b>119</b> Like	<b>35</b> On post	<b>84</b> On shares
<b>2</b> Love	<b>0</b> On post	<b>2</b> On shares
<b>8</b> Wow	<b>2</b> On post	<b>6</b> On shares
<b>2</b> Sad	<b>1</b> On post	<b>1</b> On shares
<b>1</b> Angry	<b>0</b> On post	<b>1</b> On shares
<b>32</b> Comments	<b>1</b> On Post	<b>31</b> On Shares
<b>44</b> Shares	<b>41</b> On Post	<b>3</b> On Shares

**1,051** Post Clicks

<b>0</b> Photo views	<b>606</b> Link clicks 📊	<b>445</b> Other Clicks 📊
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**NEGATIVE FEEDBACK**

<b>5</b> Hide Post	<b>0</b> Hide All Posts
<b>0</b> Report as Spam	<b>0</b> Unlike Page

Reported stats may be delayed from what appears on posts



# Outreach and Community Engagement

AF8's extensive science-outreach programme has continued in Year 3. Our science partners have given over 150 presentations since November 2016, with a total attendance of over 8000, all around New Zealand and as far away as London, UK.

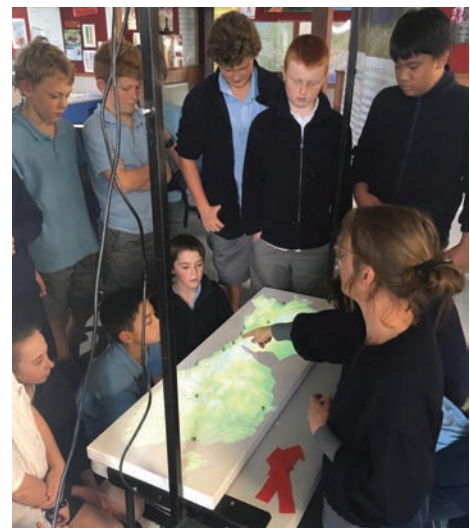
More recently this work has been supported by the AF8 Roadshow, which now forms a pivotal part of AF8's ongoing engagement activities. By sharing the AF8 hazard and impact science and preparedness information widely, the Roadshow aims to equip communities with the knowledge and interest to engage with the science behind an AF8 earthquake, what that will mean for their region, and how we can be better prepared for the next AF8 event.

On our first roadshow we visited 14 communities, including 11 schools, around the South Island. We ran sessions with the year 7-13 students at the schools, with over 1100 participating in activities designed to engage them in AF8 hazard and impact science and preparedness information. Asking what is the Alpine Fault? Where is it? Why should we care? How can we prepare?



Above: Sharing *The Science Beneath Our Feet* at Wakatipu High School, Queenstown, Otago

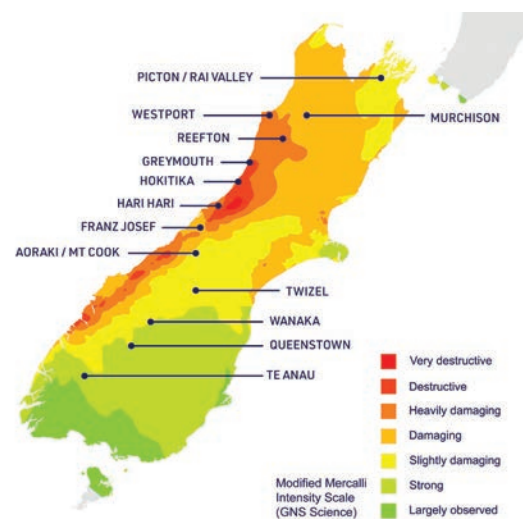
Right: Sharing *The Science Beneath Our Feet* at South Westland Area School, Hari Hari, Westland.



## Feedback from teachers

*"An absolutely fantastic experience for both our staff and students - have received so many positive comments!!"*

*" My class was fully engaged in exploring the wide range of activities and information as it was presented in a way which really hooked them. They were able to build a much stronger understanding in a short period of time as the road show makes connections with the way children learn best. The presenters were fantastic! The experiments, explanations, choices of what they showed the different age groups. The best Science based opportunity I have had as a teacher too."*



AF8 Scenario South-North rupture intensity map showing communities visited on the AF8 Roadshow 2019

In the evenings we hosted presentations by AF8 scientists, sharing much of the same information and encouraging communities to take actions towards being better prepared. These were open to the general public with a total attendance of over 1110.



Above top: AF8 Roadshow Public Science Talks in Te Anau.

Above bottom: AF8 Roadshow Public Science Talks in Hokitika.

The feedback, attendance at the public science talks and overall interest in the Roadshow demonstrates a clear appetite for AF8 hazard and impact science from the general public. It is intended that this outreach will be continued in Year 4 in partnership with the project's digital communication activities.

## Regional Natural Hazard Programme Alliances

AF8 continues to align with other New Zealand regional hazard programmes, including: East Coast Lab, Hikurangi Response Framework, DeVoRA, ECLIPSE, QuakeCoRE, It's Our Fault and WENIRP. This involves quarterly meetings and, where appropriate, shared information and collaboration on: Response Planning (Hikurangi Response Framework, WENIRP) and Public Education and Outreach (East Coast Lab, QuakeCoRE, ECLIPSE, It's Our Fault, DeVoRA)

## Project Governance and Management

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Governance for the project is provided by a steering group made up of representatives of all 6 South Island CDEM Group offices, the AF8 Coordinator, AF8 Science-Lead and a MCDEM representative. The steering group meets either face-to-face or virtually approximately every 2 months, approving all project variations and ensuring a coordinated approach between project partners. The governance group is chaired by the Manager of Emergency Management Southland, Angus McKay, who also acts as the project executive. Emergency Management Southland is the administering authority for AF8.

The science and research component of the project is led by AF8 Science-Lead, Dr Caroline Orchiston of the University of Otago. The AF8 Coordinator, Alice Lake-Hammond, is also based at the University of Otago. The coordinator takes a lead on the project's communication and engagement initiatives, including the design and delivery of the Roadshow, digital media management and the development of the AF8 brand and communications planning and design.

An overview of the workplan and focus areas for Year 4 is attached as Appendix 3.

## Project Finance

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In Years 1-3 AF8 has received the following funding from the MCDEM Resilience Fund:

- Year 1 - 1 July 2016 annual budget of \$245,000
- Year 2 - 1 July 2017 annual budget of \$245,000
- Year 3 - 1 July 2018 annual budget \$170,000

In Year 4 AF8 will be co-funded by the 6 South Island CDEM groups (totalling \$100,000) with co-funding support from Resilience to Nature's Challenges and QuakeCoRE to support the development of Risk Communications activities and materials (approx. value \$100,000).

# Appendix 1: Year 3 Project Plan

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## Year 3 Project Plan

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### Overview

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This document details the development of Project AF8 (AF8) and associated work programme as the project moves into its third year. AF8 is supported by the National Resilience Fund and South Island CDEM Groups and is focused on forming a collective response capability in preparation for the impacts of a magnitude 8 rupture of the Alpine Fault. Alpine Fault earthquakes are relatively frequent events, with evidence of at least 27 large earthquakes in the last 8,000 years, with a return period of approximately 300 years. It last ruptured in 1717 and research indicates that there is a 30 to 50% chance of a significant quake occurring within the next 50 years. AF8 brings together the science community, emergency management practitioners and communities to plan and prepare for a likely significant earthquake in the South Island.

Years 1 and 2 have proved successful in raising awareness, improving cooperation across regional boundaries and have provided the basis for informed conversations around preparing for an Alpine Fault rupture with the creation of the SAFER Framework and through the generation of media content. The SAFER Framework details the science-based scenario, provides greater coordination between CDEM Groups and identifies any gaps and inter-dependencies in individual Group Alpine Fault response plans, as well as in national agency arrangements. The Framework will be published and promoted in August 2018. Year 3 builds on these successes with increased emphasis on engagement and communication.

Year 3 will focus on maintaining the momentum from years 1 and 2 – continuing to coordinate our work across the South Island, influence national planning, support knowledge sharing and maintain an emphasis on preparing for an Alpine Fault rupture. An important part of the proposed Year 3 workplan is also to develop a transitional pathway towards a long-term Alpine Fault programme, building on the success of Project AF8. This will involve developing the necessary co-funding streams and organisational structure, including a Steering Group and Terms of Reference for 'Programme AF8' going forward.

Emergency Management Southland will co-ordinate this work by completing a number of deliverables aligned with the work programme attached to this plan.

### Aims and Objectives

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To improve the resilience of communities in the South Island of New Zealand exposed to a potential, major rupture of the Alpine Fault. In order to achieve this, AF8 Year 3 will:

- Embed the SAFER Framework in all six Groups' response planning, test it during an exercise and identifying the gaps and opportunities to be worked on for the future.
- Develop public education, community engagement and communications content and strategies to support preparedness and enable knowledge sharing between South Island communities, CDEM and project stakeholders.
- Continue to review and assess existing information and develop consistent understanding of possible consequences throughout the South Island.
- And, develop a transition plan for year four onwards.

### Scope and Limitations

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The following will be included within the scope of this project for Year 3:

- Building on, publishing and promoting existing material and information generated in years 1 and 2 of the project. This may be added to and/or expanded on as new knowledge becomes available via partners/stakeholders/communities.
- The development of relationships with partners, stakeholders and communities – existing and new – to strengthen collective response capabilities across the South Island.
- To increase access and visibility of AF8 material and information via the website, digital media channels and outreach activities – growing awareness of the Alpine Fault hazard and supporting preparedness actions.
- Ensuring information shared and channels used are relevant, accessible and useful to all audiences – national, regional and community. Listening and responding to feedback from audiences.





- The development of a formal structure for AF8 moving beyond Year 3, including: co-funding opportunities, governance and organisational structure etc.

It is pertinent to discuss the limitations of Year 3 due to time, resourcing and required deliverables. As such, the following is not included in the scope of this Project:

- Undertaking new or extended research into the Alpine Fault hazard (or cascading hazards).
- Development of core modelling capabilities (e.g. University of Canterbury quake impact modelling) that are ordinarily funded through other means.
- Detailed assessments of vulnerabilities and consequences of localities or that relate to a specific organisation's needs.
- Detailed reviewing and development of recommendations for remedial actions within specific organisations at the local, regional or national levels (beyond the SAFER Framework).
- Formalised and fully integrated response management and action planning to follow after an initial response to an event.
- While the project is to fit within a risk-based 4Rs approach to managing this risk and the work may suggest areas for mitigation and recovery policy, planning and programmes, this further work is not within scope.

### Deliverables/Milestones

The following deliverables are high level outputs only and are supported by the accompanying work programme.

Year three is focused on:

- Publishing and promoting the SAFER Framework and testing it through a coordinated Alpine Fault rupture response exercise.
- Revising the AF8 communications strategy including digital media plan and brand guide.
- Website development aimed at improving access to AF8 resources and collaboration between partners and communities.
- Community resilience public education resources and on-going strategy for face-to-face and online engagement.
- A transition strategy to 'Programme AF8' to guide ongoing activity in management of the Alpine Fault hazard and risks.
- Developing the necessary co-funding streams and organisational structure, including a Steering Group and Terms of Reference for 'Programme AF8' – year 4 onwards.

### Governance structure

To enable an informed and comprehensive approach drawn from a variety of skills and experience, a Steering Group will support the Project and its deliverables.

#### Steering Group

The overall Project will be chaired by Angus McKay, Group Manager, Emergency Management Southland. The Steering Group will comprise the following members:

Name	Role	Organisation
Angus McKay	Group Manager/Chair	Emergency Management Southland
Brain Patton	Group Manager	Marlborough CDEM Group
Chris Hawker	Group Manager	Otago CDEM Group
Mark Crowe	Group Manager	West Coast CDEM Group
Neville Riley	Group Manager	Canterbury CDEM Group
Joe Kennedy	Group Manager	Nelson/Tasman Group
Jenna Rogers	Analysis & Planning Manager	MCDEM
Caroline Orchiston	Deputy Director, Centre for Sustainability	University of Otago



Roles and responsibilities of Steering Group members are defined in the AF8 TOR. Delegates may attend meetings/participate in the Steering Group's business as and when agreed by their organisation's member and the Chair Project AF8 coordinator to attend Steering Group meetings as adviser/observer.

## Management

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Management of the Project will be the responsibility of the Steering Group, driven by the Chair of the Project. This will include identification of resources, reporting, budget management and identification of any unforeseen expectations, performance issues or potential problems that might arise during the Project.

### *Monitoring and reporting*

The Programme coordinator will provide the Steering Group with bi-monthly reports which shall include progress against milestones, budget tracking, foreseeable issues and opportunities. The report will be made available to the Steering Group at least 5 working days prior to their meeting. Whenever possible the Programme coordinator will attend the meetings of the Steering Group.

The Project Chair shall provide 3 monthly reports to MCDEM and shall conform with all Environment Southland reporting, financial and HR policies and procedures as required.

The Steering Group will share the reports with the key stakeholders of the project including the science and Ministry leaders.

### *Resources*

Funding for the project will be held with the Southland CDEM Group which will approve all expenditure in a business as usual manner. Significant project costs not previously provided for in the project plan will be approved by the Steering Committee members. Each South Island Group will provide for their own costs necessary to ensure the success of the Project except where the Group members agree to fund costs from the Project e.g. travel and accommodation costs.

### *Communication requirements*

The Programme coordinator will lead the development the communications plan in consultation with the Steering Group, based on strategy developed in Year 1. This includes:

- Identifying opportunities to initiate national/South Island media releases as information becomes available or when milestones are delivered.
- Supporting information sharing between AF8 stakeholders and partnership organisations.
- Developing the website ([www.projectaf8.co.nz](http://www.projectaf8.co.nz)) and digital media channels to increase AF8's visibility and support the sharing of information.
- Developing public education resources and a programme to engage communities, increase awareness and motivate preparedness actions.

## Finance

Funding for this Project is provided from the National Resilience Fund. A breakdown of costs and budgets for this Project is included in Table 1.

*Table 1: Year 3 Work Plan*

Description	Notes	Milestone	Date	Cost
Programme coordinator Salary, support costs, travel etc.	Full-time, fixed term programme coordinator	Ongoing cost through the year, based on salary, support costs and travel etc. Progress will be monitored on following milestones:	Aug 2018	\$120,000 wages and associated support costs for year
		Finalise, distribute and promote SAFER Framework with stakeholders	Aug 2018	As above
		Develop existing social media brand for Project AF8 and expand public education and community engagement material	Strategy development Sept 2018 [Implementation ongoing]	As above
		Develop the AF8 website into a central repository for Alpine Fault related science and emergency management content	Strategy development Sept/Oct 2018 [Implementation ongoing]	As above
		Coordinate planning and preparation for Tier 4 Alpine Fault exercise	Ongoing until June 2019	As above
		Coordinating Alpine Fault scenario information and scientific input to the Recovery Planning for CDEM Groups	Ongoing until June 2019	As above
		Oversee community activities in six CDEM Group areas; including hosting meetings, public talks and special events and involving scientific community into local events /planning	Ongoing until June 2019	\$50,000 to cover at least two community meetings in each Group, travel costs for specialists, steering groups and coordinator travel and expenses around South Island.
		Build on Community Response Planning in each Group, identifying local impacts of an Alpine Fault rupture, reinforcing the preparedness key messages and encourage participation in CDEM activities	June 2019	
		Investigate and secure funding for longer term 'Programme AF8' – year 4 onwards	June 2019	
			TOTAL	\$170,000

## Risks and Issues

It is important that any risks or issues that might arise during the Project are understood and recorded. This includes detailing their causes, possible consequences and any solutions or actions taken to resolve the issue. The following risks or issues could impact on the timeframes or quality of the project:

*Table 2: Risk Management*

Risk	Management
Commitment to timeframes and completion of milestones	The Steering Group will oversee all work and receive monthly reports to monitor expenditure and progress
The Alpine Fault ruptures before work is completed	Any preparation will be of benefit and starting the conversations with interested parties is key to networking and providing a coordinated response
Late approval processes prevent completion of milestones	Working closely with MCDEM to ensure quick start to project and early identification of possible underspend for carry over
Programme of works (tasks and deliverables) grows too broad or loses focus during the life of the project.	Programme coordinator to maintain systems to specify work criteria and timeframes, monitor progress, and to report to the Chair on any variations or issues arising. Project Chair is to regularly brief Steering Group on progress, and seek agreement on any significant variations to the programme of works. Steering Group to report to sponsor and governance structure as required.
Programme coordinator, consultants or task leads do not get sufficient or timely inputs from participating organisations.	Issue elevated to relevant Steering Group member to address through their Region's executive and governance arrangements. Wide spread or persistent lack of support that jeopardises the project as a whole is to be addressed through the steering group's combined reporting to the governance structure.
Project Chair, coordinator, or task lead becomes indisposed and unable to complete their work.	Progress on all work is well-documented and routinely stored within shared or openly accessible data storage systems. The Programme coordinator and Chair are to be kept informed ASAP of pending or potential issues and are to undertake contingent actions accordingly.
A major emergency occurs that impacts BAU activities of key organisations and personnel involved in this project.	Project timeframes or personnel commitments may be re-negotiated between Programme coordinator and the Steering Group/sponsor. Non-impacted organisations are invited to fill gaps where practicable to do so

## Success Factors

The overall success of the AF8 Project in Year 3 will be its ability to increase engagement and interactions between partners, stakeholders and communities and through the development of a transition plan for Year 4 onwards. Success will be demonstrated through the completion of the deliverables and milestones required to meet the aims and objectives, which may also include:

- Raised awareness, and consistent understanding, of potential consequences from credible Alpine Fault rupture scenarios and aftershock sequences, based on the best available scientific knowledge and research.
- Common understanding among response agencies of likely needs and management priorities during an initial response to such events, supported by the SAFER Framework.
- Evaluation of current plans, agreements and resources available to respond to such an event.
- Successful quarterly reporting to MCDEM – Project sponsors through the National Resilience Fund
- Increased access to the findings by key stakeholders, responding agencies, the science fraternity and the public.
- Submission of the findings to Central Government with a view to improving the resilience of those communities and lifelines likely to be seriously impacted by such an event.



## Appendix 2: AF8 Communication Plan Overview



### AF8 Communication Plan Overview

This is an outline of the proposed AF8 Communications Plan for Year 4. The full plan will be completed in July 2019.

*Key message: We can't predict earthquakes but we can prepare for them.*

#### Aims

- To raise awareness of the AF8 programme and its objectives.
- To engage and maintain the interest and support of stakeholders and partners in AF8.
- To demonstrate the value of co-creation and collaboration in building a collective resilience to a future event.
- To provide consistent and clear messaging that facilitates discussion and enables the sharing of knowledge.
- To ensure that South Island communities can use this shared knowledge as a basis for improving individual, household and communities' understanding of the hazard, preparedness and resilience.

#### Approach

- Listening – What do audiences want to know, understanding what information is of value to them. Facilitating feedback and monitoring insights.
- No dead ends – There is always a link to more information, either relevant or related.
- Speaking with, not speaking at – Communicating responsively not reactively, from the point of view of the receiver to enable conversations and knowledge sharing,

#### Stakeholders and audiences

Stakeholders (internal) – those we work with to communicate.	Audiences (external) – those we communicate with.
<ul style="list-style-type: none"> <li>- The 6 South Island CDEM Groups</li> <li>- Ministry of Civil Defence Emergency Management</li> <li>- Aligned regional natural hazard programmes in NZ</li> <li>- Science and research partners (Universities, CRIs etc.)</li> <li>- Partner agencies and associated ministries.</li> </ul>	<ul style="list-style-type: none"> <li>- South Island communities</li> <li>- The wider New Zealand public</li> <li>- Regional and national media</li> <li>- Partner agencies and associated ministries</li> <li>- International interest groups</li> </ul>

#### Year 4 focus area objectives and actions

Focus area	Objective	Actions
Response	To support response planning and the implementation of the SAFER Framework for the 2020 National Exercise.	<ul style="list-style-type: none"> <li>- Communicate exercise planning and delivery, sharing information as appropriate.</li> <li>- Facilitate feedback and review of the SAFER Framework pre and post the 2020 Exercise.</li> </ul>
Engagement	Raise awareness and facilitate discussion around natural hazards and how we can be better prepared.	<ul style="list-style-type: none"> <li>- Science outreach presentations</li> <li>- The Science Beneath Our Feet roadshow</li> <li>- AF8 website and social media</li> </ul>
Risk Communication	Coordinated risk communications across aligned regional natural hazard programmes in New Zealand.	<ul style="list-style-type: none"> <li>- Work with relevant stakeholders to create a clear and consistent resources to support communication of natural hazard risk.</li> </ul>
Recovery	To support AF8-focussed recovery research and build resources in this area.	<ul style="list-style-type: none"> <li>- Promote research and share findings as appropriate.</li> </ul>

#### Monitoring and evaluation

Detailed action planning, monitoring and evaluation will be developed for the final plan in July 2019.

# Appendix 3: Year 4 Workplan Overview



## Year 4 Workplan Overview

From Year 4 onwards the AF8 workplan will focus on four key areas.

### Response

Focus	Outputs
<ul style="list-style-type: none"> <li>- 2020 Exercise planning</li> <li>- SAFER Framework planning</li> <li>- Multi-agency planning</li> </ul>	<ul style="list-style-type: none"> <li>- 2020 Exercise event</li> </ul>

### Engagement

Focus	Outputs
<ul style="list-style-type: none"> <li>- Science Outreach</li> <li>- Public Education</li> </ul>	<ul style="list-style-type: none"> <li>- Presentations / speaking events</li> <li>- AF8 website and social media</li> <li>- The Science Beneath Our Feet roadshow</li> </ul>

### Risk Communication

Focus	Outputs
<ul style="list-style-type: none"> <li>- CDEM+Science co-creation</li> <li>- Coordinated risk communications accross NZ regional natural hazard programmes</li> </ul>	<ul style="list-style-type: none"> <li>- AF8 Forum</li> <li>- Risk communication resources</li> <li>- Research publications</li> </ul>

### Recovery

Focus	Outputs
<ul style="list-style-type: none"> <li>- Hazard Science (Lifelines, insurance)</li> <li>- Tourism</li> <li>- Agribusiness</li> <li>- Community / Community</li> <li>- Economic</li> </ul>	<ul style="list-style-type: none"> <li>- Research focussed (AF8-focussed PhDs)</li> </ul>



[WWW.PROJECTAF8.CO.NZ](http://WWW.PROJECTAF8.CO.NZ)

 @ALPINEFAULT8

JUNE 2019