

New Zealand Search and Rescue Consultative Committee Meeting

**Minutes of Meeting
NZSAR Consultative Committee
Wednesday 23 August 2017
Meetings on The Terrace
152 The Terrace, Wellington**

Attendees:

Carl van der Meulen – NZSAR (chair)	Jo Holden – NZ Police
Mike Ambrose – LandSAR NZ	Steve Kern – CAA
Kevin Banaghan – RCCNZ	James Lamb - KORDIA
Dave Comber – NZSAR Council	Jonty Mills – WSNZ
Brendan Comerford – Kordia MOC	Allan Mundy – SLSNZ
Mike Daisley – MSC	Rachel Roberts – NZSAR
Ian Duncan – FENZ	Stephen Ross - NZSAR
Rhett Emery – NZSAR	Brian Ruiterman - NZDF
Duncan Ferner – NZSAR	Jeff Sayer – AREC
Georgia Gerraty – RCCNZ	David Waters – Ambulance NZ
Peter Healy – Coastguard NZ	Jerome Cvitanovich – NZSAR
Mike Hill – RCCNZ	

1. Welcome

Carl opened the meeting and welcomed the attendees with particular welcomes to new attendees:

Jerome Cvitanovich – NZSAR Communications Advisor
Ian Duncan – FENZ
Georgia Gerraty – RCCNZ
Stephen Ross – NZSAR

2. Apologies

Patrick Holmes – Coastguard NZ
John Nicholson – Aviation NZ
Harry Maher – DOC

3. Minutes of previous meeting

The minutes of the 10 May 2017 meeting were accepted as a true and accurate record.

4. Matters Arising from Minutes

Item	Action	Responsibility	Update
7 Risk Matrix		The Committee endorses the addition of a 'SAR Demand' risk to the NZSAR Council's risk matrix.	Complete
12 Training SAR (ACE)		The Secretariat will arrange a meeting to discuss future SAR training options.	

Duncan reported that Council had considered the issues facing the SAR (ACE) training model at its May meeting and the Council chair, Peter Mersi, wrote to Tertiary Education Commission CE, Tim Fowler, expressing concerns with the funding mechanism. TEC has responded by inviting NZSAR to a meeting between the Ministry of Education, TEC, and NZQA to explore funding options. The status quo will remain for 2018 as any changes would be linked to the budget process.

5. SLA Monitoring Report: 1 April – 30 June 2017

Reporting requirements for the SLA have been met by all partners, with 1,679 volunteers involved in SAROPS, and 9,747 volunteer hours recorded for the quarter. Details are contained in the SLA monitoring report (attached).

The LandSAR CEO resigned on 18 August and Dave Robertson, Board chair, is the interim CE.

6. SAR activity report 2016/17

A summary of SAR activity for the 2016/17 year was presented. Of note is that category 2 incidents increased by 7% last year. In 2010/11, 26.5% of incidents were category 2 whilst in 2016/17 the figure had increased to 35.7%.

7. Sector Update

The sector update was distributed prior to the meeting (copy will be available on NZSAR website).

8. NZSAR Risk Matrix

Duncan facilitated a strategic discussion on the following two risks from the risk matrix.

a. SAR Information

Currently, the Data Standard is 85% complete and will be further refined through the SARdonyx project. Duncan then updated the Committee on the current status of project SARdonyx – to replace our existing single agency data store(s) with a multi-agency solution that will deliver a new data collection and business intelligence (BI) solution for NZ's SAR sector.

The Committee noted that SAR demand is changing. SLSNZ commented that they are currently placing an emphasis on analysing prevention data that is currently being collected by their patrols. This has identified crab fishers as a risk on unpatrolled beaches.

To understand the nature and impact of changes in SAR demand, the SAR sector requires good data analysis. The analysis of operational data (demand) needs to be compared with data about the supply side of the SAR sector. The challenge for the SAR sector is to be agile enough to react to trends identified by the operational analysis. This requires early identification of trends.

Information on changing SAR demand also needs to be provided to the appropriate authorities (e.g. DOC or Territorial Authority) to support preventative activities, such as new or improved signage. Duncan advised the Committee that the Secretariat is planning to engage directly with Territorial Authorities on SAR activity that occurs in their areas of responsibility.

Decision: The Committee **recommended** an update to risk treatment *2017/01/D: SAR Operational Analysis* that decisions need to be based on adequate information.

b. Recreational knowledge

Many organisations provide safety advice, but until the establishment of the AdventureSmart website there was no 'one stop shop' of collated safety information. AdventureSmart allows the promulgation of consistent sector messaging. Some of the information contained on the website is overdue for a review.

Rachel Roberts will be the NZSAR lead person for the implementation of the NZ Inc Recreational Safety Strategy. The Committee noted that the recreational landscape has changed, which leads to the question of whether more targeted information is required or not.

SLSNZ commented that Regional Council's do not seem willing to place beach signage to warn beach-goers of the immediate risk of rips, however they will place signage for tsunamis. SLSNZ will continue to engage with Council's to have appropriate signage on beaches.

MSC reported they have had good engagement with the Wanaka and Queenstown Regional Councils, with the Wanaka Council embedding safety information from MSC onto its own website. However, MSC does not have the capacity to have this engagement with all Councils in NZ. They will focus on the seven hot spots identified in the *There and Back* project. MSC are now starting a deep dive into tramping, which will also inform safety messaging.

Decision: The Committee **recommended** no changes to the risk treatments for the Recreational Knowledge risk.

9. Water Safety NZ Capability Review

Jonty Mills briefed the committee on the Water Safety NZ Capability Review, which is a key outcome of the Water Safety Sector Strategy 2020. The 'business as usual' attitude will not prevent drowning so a step change was required. The Capability

Working Group has been established to provide expert advice and a 'reality check' to WSNZ project manager.

Four core organisations (Coastguard NZ, Swimming NZ, SLSNZ and Water Safety NZ) approached government at the end of 2015 seeking assistance. They were advised to look at their own organisations internally first. The sector needed to look at how they would work together to meet the targets mandated.

Membership:

Paul Dalton, SLSNZ

Patrick Holmes, Coastguard NZ

Duncan Ferner, NZSAR

Davin Bray, WAI

Jonty Mills, WSNZ

Mark Lindsay, WSNZ

Neil McInnes, WSNZ

The Working Group will meet with project owners (four sector chairs) at key points in the process.

The Five Phases

1. Project plan and set up (November 2016)
2. Environmental scan – what's coming at us (mid August)
3. Sector stocktake – current state (end September) – 1.5 hour interviews with CEOs
4. Sector Capability Plan (October 2017)
5. Plan implementation

The plan is to seek more sustainable funding through ACC and Government. Phases two and three are near completion.

The next steps are to:

- Complete drafts of environmental scan and sector stocktake reports (for Project Owners meeting mid September)
- Working Group – 19 September – to revise capability plan
- CSRG – 28 September – to review capability plan proposals
- Project owners – mid October – to sign off capability plan

It will be over to the sector to consider the findings from the review and decide what changes organisations may wish to make.

10. Learnings – exercise *Rauora*

NZSAR briefed the Hazard Risk Board (HRB) in May on four systemic issues that have been identified during the current series of *Rauora* // MRO exercises. NZSAR has been asked to provide the HRB at its September meeting, with information on how these issues will be addressed. The issues and proposed responses are:

Issue 1: The development of a single plan for nationally significant SAR operations (Mass Rescue / Extensive Search) remains an urgent requirement.

Response: NZSAR will provide HRB with a clear plan and milestones for the development of a single MRO response plan

Issue 2: *Incompatible organisational IT systems is a major impediment to gaining and maintaining situational awareness.*

Response: FENZ is leading the development a non-operational COP interagency platform. The Incident Management Reference Group (IMRG) is developing guidance for the role of Liaison Officers during operational response activities – they have a key role to play in providing situational awareness.

Issue 3: *Many people in response organisations at the District level possess an inadequate understanding of CIMS (particularly at the multi-agency/multi-response level).*

Response: The National Security System Training Development Group (NSS TDG) is working on CIMS training, unit standards, and expectations on agencies. They will be reporting to HRB separately.

Issue 4: *No common system or process for the reconciliation of large numbers of distressed / missing people exists.*

Response: Police and MCDEM are leading complementary projects for two of the sub-functions under 'Welfare'. Police have a project for the 'inquiry' function, and MCDEM have a project for 'registration and needs assessment'. NZSAR will be hosting a workshop to articulate the SAR sector's requirements for reconciliation, and will provide this to Police and MCDEM.

11. National SAR Support Programme 2017/18

2017/18 NSSP	
Workshops & Seminars	SAR Training
Aviation Workshop	SAR(ACE) Training Survey
SAR Case Study Seminar / Police Planning	Evaluation Training
SAR Technology	START Material
Safer Walking	Prevention
SAR Information and IT	AdventureSmart Communications
NZSAR Website update	Recreational Safety Partnership
Data Store	Visitor Intentions
SAR Information System (SARdonyx)	Safety Codes, printing & advertising
SAR (land) IMT IT	SAR Research
Portable Mobile Phone Location	Fatality Analysis
Update NZSAR Resources Database	SAR Communications - (Land) (STWG(L))
SAR Documentation	SAR Demand and Supply Study – Marine
SAR Forms and Guidelines	SAR Demand and Supply Study - Land
Develop New Zealand's SAR Guidelines	Mass Rescue Study
Exercises	SAR Aviation Engagement Framework
Support Police SAREXs	SAR Assurance
MRO SAREXs	
Practical MRO SAREX	
Drifters/Trackers	

The Committee was briefed on the 2017/18 NSSP (in the above table) with further updates provided as below.

SARdonyx.

Duncan gave an update on the timeline of the procurement process for project SARdonyx. This will include an opportunity to revise/finetune the system approximately 9 months after development is completed.

SAR(Land) IMT IT.

Rhett briefed the Committee on the process of selecting an IT system that best meets the Land IMT Process requirements. After evaluating five IMT management systems SARTrack was identified as the system which best meets most of the process requirements.

SAR Customer Survey.

Rachel will manage this research survey as part of the prevention work. This project will survey people who have required assistance by the SAR sector. Rachel will engage with appropriate agencies for the survey design and content. The survey will be conducted around May 2018.

Recreational Safety Partnership – Future options

The Committee considered the draft report which outlined the partnership background and current situation, and provided three options for discussion:

- a. The safety partnership remains largely as the status quo but with group-defined scaled-up tasks, accounted for annually by agency heads.
- b. The safety partnership is dissolved into the implementation of the NZ Inc Recreational framework. Collaborative activity flowing from the Framework will be agreed by agency heads.
- c. Collaborative efforts are not formalised under any structure. Organisations and agencies find ad hoc ways to connect and collaborate.

Rachel reported that communication representatives from each partner agency meet on a six-monthly basis. There have been changes in the representatives over the five years of the partnership, however the partnership arrangement is working well.

SAR Assurance.

Stephen gave the Committee an overview of his role in the newly established position of NZSAR Assurance Coordinator. His current focus areas are:

- Implementing the recommendations of the Search and Rescue Telecommunications Working Group (Land)
- Implementing the seven recommendations of the Aviation Framework,
- Maintaining the existing Datastore
- Responsibility for the Occupational Health and Safety Committee.

New Zealand's SAR Guidelines.

Rhett reported that a project steering group is to be established this year to create and maintain an agreed, unified and documented *doctrinal* base for the conduct and operation of Search and Rescue in New Zealand. CEOs of the stakeholder organisations listed in the brief will be approached seeking senior operational personnel to provide cross sector assurance for the content and format of the Guidelines. Subject matter expert groups will be convened next year to provide expert knowledge relevant to SAR in the Land / Air / Water environments.

Documents of relevance are listed in the Project brief and if people know of other relevant documents they should let Rhett know. A Project Manager and Writer will be contracted.

Training.

Rhett provided a brief on the SAR(ACE) training system, with an update on the Evaluation and Air Observers courses.

The purpose of the Evaluation course is to introduce the basic principles of evaluation methodology, and in doing so enable a consistent standard of evaluation reporting practice.

The Air Observer's courses for March 2017 were cancelled due to weather, with a course scheduled for October 2017.

START material.

The following resources have been uploaded to the START library of SAR knowledge.

- SAR in Antarctica – video
- CIMS Training information for CIMS 2nd Ed
- Family Liaison – video
- Marine SAR and Air Observer resource material
- Resources Database Guidelines for use

SAR exercises.

Rhett gave a brief update on NZSAR supported exercises.

12. Wahine 50 & NZSAR Awards

Duncan gave an update on the planning for the 50th commemoration of the Wahine tragedy to be held in and around Wellington on 10 April 2018. There will be an associated SAR agency display and NZSAR Awards that evening. Rhett will be NZSAR's point of contact for the SAR agency display and Awards.

13. General Business

Next meeting

- 22 November 2017 - combined workshop with Council
Topic – environmental scan

Carl van der Meulen
Chair
NZSAR Consultative Committee

Actions and Decisions

Item	Action (A) / Decision (D)	Responsibility
8a Risk Matrix	D The Committee recommended an update to risk treatment <i>2017/01/D: SAR Operational Analysis</i> that decisions need to be based on adequate information.	Secretariat
8b Risk Matrix	D The Committee recommended no changes to the risk treatments for the Recreational Knowledge risk.	N/A

New Zealand Search and Rescue Consultative Committee

AGENDA

Wednesday 23 August 2017, 1-4 pm

Meetings on the Terrace

152 The Terrace, Wellington

1.	Welcome (Coffee & Tea available)		
2.	Apologies		
3.	Minutes of meeting 10 May 2017	<i>for approval</i>	
4.	Matters arising from the minutes		
5.	SLA Monitoring Report	<i>paper</i>	Snr Adv
6.	SAR activity report 2016/17	<i>paper</i>	Snr Adv
7.	Sector update	<i>paper</i>	All
8.	NZSAR Risk Matrix		
	a. Strategic discussion – SAR Information	<i>discussion</i>	All
	b. Strategic discussion – Recreational Knowledge	<i>discussion</i>	All
9.	Water Safety NZ Capability Review	<i>update</i>	WSNZ
10.	Learnings – exercise <i>Rauora</i>	<i>update</i>	Sec Mgr
11.	National SAR Support Programme 2017/18	<i>update</i>	
	a. SARdonyx		Sec Mgr
	b. SAR(land) IMT IT		NSSP Co-ord
	c. Research		Sec Mgr
	d. Workshops/Seminars		Sec Mgr
	e. SAR prevention		Prevention Co-ord
	f. SAR assurance		Assr Co-ord
	g. Documentation – NZ's SAR Guidelines		NSSP Co-ord
	h. Training		NSSP Co-ord
	i. SAREXs		NSSP Co-ord
12.	Wahine 50 & NZSAR Awards		NSSP Co-ord
13.	General Business		
	a. Next Meetings		Snr Adv

New Zealand Search and Rescue Consultative Committee Meeting

Minutes of Meeting
NZSAR Consultative Committee
Wednesday 10 May 2017
Ministry of Health
133 Molesworth Street, Wellington

Attendees:

Carl van der Meulen – NZSAR (chair)	Patrick Holmes – Coastguard NZ
Steve Caldwell – LandSAR	Simon Kernehen – NZ Police
Dave Comber – NZSAR Council	Julia James – Coastguard NZ
Paul Craven – RCCNZ	Jonty Mills – WSNZ
Jerome Cvitanovich – NZSAR	Allan Mundy – SLSNZ
Mike Daisley – MSC	Rachel Roberts – NZSAR
David Dittmer – DOC	Brian Ruiterman - NZDF
Nic Drew-Crawshaw – RCCNZ	Jeff Sayer – AREC
Rhett Emery – NZSAR	Morgan Stevenson – NASO
Duncan Ferner – NZSAR	Pete Turnbull – Aviation NZ
Mike Hill – RCCNZ	Henry van Tuel – Coastguard NZ

1. Welcome

Carl opened the meeting and welcomed the attendees with particular welcomes to new attendees:

Julia James – Coastguard NZ

David Dittmer – DOC

2. Apologies

Peter Baird – NZ Police

Jo Holden – NZ Police

Simon Trotter – Antarctica NZ

Kevin Banaghan – RCCNZ

Harry Maher – DOC

Paul Turner – NZFS

3. Minutes of previous meeting

The minutes of the 22 February 2017 meeting were accepted as a true and accurate record.

Carl noted that since the last meeting, three organisations had suffered bereavements - Sarwan Chand of Wanaka LandSAR; Doug Cook of AREC; and Mark Whitehouse Operations Manager, Coastguard Southern Region. The Committee expressed condolences to all those organisations who lost staff or members.

4. Matters Arising from Minutes

Item	Action	Responsibility	Update
12 Maritime VHF Project Review	A	Surf Life Saving to provide details of the problem to one of their VHF channels to NZSAR and Radio Spectrum Management.	Complete
16a Bar Crossings	A	RCCNZ, MOC, Coastguard, Police to form a working group to discuss the issue of bar crossing reports.	In progress
16e Awards	A	Secretariat to advise Committee members of date for Awards.	Complete
16F UAVs	A	Include use of UAVs as a topic at the SAR Coordinators workshop in April.	Complete

5. SLA Monitoring Report: 1 January – 31 March 2017

Reporting requirements for the SLA have been met by 3 of the SLA partners. Details are contained in the SLA monitoring report (attached).

6. Sector Update

The following oral updates were provided to the Sector Update paper (attached):

NZDF

- Missing German tourist found on Mt. Taranaki.
- Solo skipper and yacht found 1,400 miles east of NZ.
- Missing Tongan fisherman found in the Pacific Ocean

Clarification was provided on the NH90 helicopter SAR capability. The aircraft is available for SAR and the limitations have been relaxed but not completely removed. The limitations are in effect in certain conditions when the aircraft would be operating towards the outer limits of its performance envelope such as winching over difficult terrain. Each task will be considered on a case by case basis once the details are known.

DOC

Harry Maher has been seconded to Southland. Quite a marked number of category 2 SAROPS over the summer but there were no fatalities at Aoraki/Mt Cook. A joint MOU between DOC, RCCNZ and NZ Police is being developed.

7. NZSAR Risk Matrix

a. Review updated matrix

Duncan reported that Council had requested some further commentary on the risk treatment, including a post treatment column. The information to include actions in effect, planned, and desired, the effective date and assessment.

b. Strategic discussion – SAR Demand

The committee discussed the proposal to add SAR Demand to the risk register. The risk is articulated as ‘changes to the nature of SAR demand’ with a possible consequence of the sector being inadequately prepared and resourced to respond to changes in SAR demand.

Both Coastguard and SLSNZ noted that changes in urban or recreational spread can create challenges in meeting the public’s expectations of providing services in more remote areas. Additionally both organisations experienced significant infrastructure damage to local Units and Clubs as a result of the Canterbury and Kaikoura earthquakes.

Decision: The Committee endorses the addition of a ‘SAR Demand’ risk to the NZSAR Council’s risk matrix.

8. Corporatisation of NGOs

There was a brief discussion of the editorial on the corporatisation of NGOs, which appeared in the Dominion Post on 5 May 2017.

9. Major Transport Incident Policy and 2019 NEP Exercise

Duncan briefed the Committee on the Ministry of Transport project to develop a Major Transport Incident (MTI) Policy. The purpose of the project is to:

- develop a transport sector strategy for managing MTIs
- provide clarity and transparency around MTI roles and responsibilities
- plan for a coherent risk and outcome focussed transport sector response to all-hazard national emergencies
- establish flexible and all level contingency plans by all key sector stakeholders
- align with and support national hazard emergency management and response
- develop assurance programme to test sector coordination and response arrangements

There are multiple agencies within the transport sector and the policy will need to explain in detail how the various agencies will work together. Mass rescue and extended search operations are the two areas where this policy will interact with the SAR system.

MTI Exercise –NEP April 2019

Duncan briefed the Committee on the status of the inter-agency National Exercise Programme (NEP) activity NEP12 – major transport incident exercise. This activity is scheduled for April 2019, and the aim, objectives and KPIs are still to be determined. The exercise planning will be led by the Ministry of Transport.

The NZSAR Secretariat believes there is value for this exercise to include a mass rescue component, as this will build on the current Rauora series of MRO exercises. The Secretariat has outlined this to both MoT and DPMC.

10. National SAR Support Programme 2016/17

Rhett briefed the Committee on the status of the 2016/17 NSSP.

Workshops & Seminars	SAR Training
Health & Safety Seminar	Training Support and Advice
SAR Case Study Seminar / Police Planning mtg	Air Observer Training & Training material
SPC SAR Meeting support	SAR(ACE) Training Survey
SAR Information and IT	Evaluation Training
Maintain SARNET, Website, START, RDB etc	Prevention
Update existing SAR Data Store	AdventureSmart Communications
Data Store maintenance and operation	Recreational Safety Partnership
SAR Data Standard (Continues)	Visitor Intentions
SAR Documentation	Safety Codes, printing and advertising
SAR Forms and Guidelines	SAR Research
Operational Framework	Fatality Analysis
NZSAR Strategy	Wills Inquest
Exercises	SAR Demand and Supply Study – Marine
Support Police SAREXs	SAR Demand and Supply study – Land
MRO SAREXs	Mass Rescue Study
Secretariat	SAR Communications – Land
Communications and publications	SAR Performance Measurement
NZSAR Awards	SAR Aviation Engagement Framework
Travel, meetings, advice, administration etc	
• Advice	

IMT IT Project

Rhett briefed the Committee on the progress of the project. The IMT IT project focussed on land SAROPS and SARTrack has been identified as a system that meets the IMT process requirements. SARTrack is already being used by some LandSAR Groups. The next step is to ascertain how well SARTrack meets the defined criteria for security and privacy, stability and robustness, support and training, and change requests.

11. National SAR Support Programme 2017/18

Duncan gave an update on the significant NZSAR initiatives included in the National SAR Support Programme for 2017/18.

Research and reviews

- A survey of subjects of SAR operations, focussing on what actions/information may have prevented them getting into trouble, and how we could have imparted that knowledge to them
- A study to review New Zealand's preparedness for a mass rescue operation
- Developing a system for measuring SAR performance

SAR documentation

- The main focus will be on developing *New Zealand's Search and Rescue Guidelines* (previously referred to as the SAR Manual), as the main action item from the Fiona Wills Inquiry

Training and training development

- Air observer training
- Evaluation training
- Student/Supervisor SAR (ACE) Training Survey
- Further development of the START library of SAR knowledge on the NZSAR website – this will require agencies providing material to be added to the library

Workshop and Seminars:

- Case study seminar and workshop with Police
- Aviation workshop – with a focus on implementing the Aviation Engagement Framework
- SAR technology workshop
- A Wander SAR workshop with a focus on responding to wander SAR incidents

SAREX

- The SAREX support for Police Districts will increase
- Continuing with five more exercises as part of the RAUORA II series of MRO exercises
- IMT exercises
- Some additional funding to 'ramp up' a limited number of SAREXs during the year

SAR Information and IT

- The main focus will be on the development of the new SAR data system/store – known as project SARdonyx

Prevention

- Rachel Roberts will take the lead for the Secretariat on prevention related activities

12. SAR (ACE) Individual Training

Rhett provided an update on the training programme, and the concerns associated with the current funding mechanism. The core concerns include:

1. The rules and regulations for SAR (ACE) can make the delivery of SAR training financially unviable for the provider, impractical for the receiving organisation and sometimes both.
2. The current model demonstrates confused training material ownership, inadequate control by the SAR sector and difficulty in adapting training to changing requirements.
3. The SAR (ACE) funding and reporting model is excessively bureaucratic, complex, inflexible and expensive to operate.
4. The performance of the current sole training provider (Tai Poutini Polytechnic) is of increasing concern and its ongoing viability appears to be in doubt.

Training structure differs in each organisation. SLSNZ and Coastguard undertake significant portions of training in-house. Comment was sought on future funding options prior to being referred to Council for further feedback. The future training options suggested were:

- Keep SAR (ACE) but change the rules
- Bulk funding to sector (through NZSAR channels)
- Bulk fund through an ITO
- Return to SAC funding
- TEC withdraw from SAR training funding
- Other suggestions

The Committee agreed a separate meeting should be held to flesh out the options. Those not on the Governance Training Group to let Rhett know if they would like to attend the meeting.

Action: The Secretariat will arrange a meeting to discuss future SAR training options.

13. Wills Inquiry – task update

The table of recommendations following the Fiona Wills Coronial Inquest has been updated and circulated. Funding has been secured and project planning started to develop *New Zealand's Search and Rescue Guidelines*.

Two of the recommendations still require actions to be undertaken:

Recommendation 10.1

Direct the SAR Training Programme Advisory Committee (PAC) to incorporate training in file management into the SAR management courses – MTMR, MTIR, ESP and SAR Managers.

Recommendation 11.1

Develop a SAR sector role description for family liaison. Direct the SAR Programme Advisory Committee (PAC) to incorporate training in family liaison role into the SAR MTMR, MTIR and ESP courses.

14. Wahine disaster 50th anniversary commemorations

Duncan reported he had met with Rhys Jones, Chair of the Wahine 50 Trust, to discuss hosting the 2017 NZSAR Awards on 10 April 2018 as part of the wider 50th anniversary commemorations of the Wahine disaster.

The Committee discussed various options raised by the Trust for incorporating public SAR displays and the NZSAR Awards into the commemorations. The Committee agreed that it would be good to incorporate the NZSAR Awards into the commemoration activities, and that the sector and individual agencies would continue to liaise with the Trust around opportunities for public displays and awareness.

15. NZSAR Awards

Rhett reminded the Committee that the NZSAR Awards will be hosted by Hon Tim Macindoe, Associate Minister of Transport, at Parliament at 5.30 pm. The awards to be presented:

- Operational – one Gold Award and seven Certificates of Achievement
- Support – one Gold Award and five Certificates of Achievement

16. General Business

H&S Award Nomination

Duncan advised the Committee that the nomination of the SAR sector to the national H&S awards was unsuccessful.

Next meetings

- 23 August 2017
- 27 November 2017 combined workshop.

The National Ambulance Sector Office was thanked for hosting the meeting at the Ministry of Health.

Carl van der Meulen
Chair
NZSAR Consultative Committee

Actions and Decisions

Item	Action (A) / Decision (D)	Responsibility
7 Risk Matrix	D The Committee endorses the addition of a 'SAR Demand' risk to the NZSAR Council's risk matrix.	N/A
12 Training SAR (ACE)	A The Secretariat will arrange a meeting to discuss future SAR training options.	Secretariat

NZSAR 2-1

18 August 2017

NZSAR Council
NZSAR Consultative Committee

**Joint Service Level Agreement monitoring report:
1 April - 30 June 2017 Quarter**

1. **Provision of Services.** Services have been provided by the SLA partners as described in the table of outputs.

Outputs	Coastguard	LandSAR	AREC	SLSNZ
Provision of expert services				
Provision of expert advice				
Provision of IMT Members			Not Required	
Summary of non-SAR activity		Not Required	Not Required	Not Required
Up to date details available				
Participation in joint SAREX				
Attendance at Forums				
Nominations NZSAR Awards				

2. **Activity for the Quarter.** A summary of activity as reported by the SLA partners for the April-June 2017 quarter.

Outputs	Coastguard	LandSAR	AREC	SLSNZ	Totals
SAROPs Attended	90	132	3	12	--
Volunteers Involved	531	1,094	8	46	1,679
Volunteer Hours	2,397	7,100	61	189	9,747

3. A summary of overall activity for the April-June 2017 quarter.

Measures	Police	RCCNZ	Totals
SAR Incidents	321	210	531
Lives Saved	30	7	37
People Rescued	89	54	143
People Assisted	142	30	172
LandSAR Taskings	89	6	95
Coastguard Taskings	45	1	46
SLSNZ Taskings	18	0	18
AREC Taskings	14	1	15
Performance of SLA Partners	Satisfactory	Satisfactory	Satisfactory

Summary of Issues and Updates

4. Coastguard

- Coastguard West Coast launched their new rescue vessel “*Ivan Tally Rescue*” on 10 June. The vessel was previously in service in Auckland as LION Rescue and has been redeployed to the South Island. There was great support from other SAR agencies.
- Henry van Tuel attended the ANZSAR Conference in the Gold Coast and delivered a key note speech on SAR training.

5. LandSAR NZ

- Key initiatives advanced during the reporting period include;
 - The completion and audit of the annual accounts for the LandSAR financial year ended 31 March 2017
 - The production of the LandSAR 2016/17 Annual Report
 - The 23rd LandSAR AGM held on 10 June 2017 in Wellington
 - Continuing development and refinement of the LandSAR Safety Management System
 - Induction workshops to accredit more LandSAR Competency Assessors. To date 109 assessors have been accredited and 1,264 competencies awarded.
 - Negotiating a MoU with WanderSearch NZ Charitable Trust, and working with a new supplier of WanderSearch pendants to automate manufacturing.

6. Surf Life Saving New Zealand

- Work is continuing on the various communications networks, and replacing old VHF sets.
- During the winter months the clubs emergency after hours call out squads ECOS step up their training along with the training of most of the new IRB crews .This creates less disruption to summer patrols with essential assets being used for training as well as during winter there is far less public in the water where the training will take place.
- The Emsisoft Rip Mapping Research and Report has been completed. The next phase is to develop a collection process that stores the dirty data from the Lifeguards prior to it being cleaned ready for use from search and rescue agencies for reference. SLSNZ is also investigating the best way to make available the Drifters for Surf Lifesaving Clubs, Coast Guard Units and Police during live searches.
- SLSNZ is well into the first phase of the Rescue Water Craft (Jet Ski) national rollout focused on mainly training this coming off season with some units becoming operational once a required standard has been reached. If successful the second phase will be “Full Operation” being aimed for the 2017-18 season along with further acquisition of the resources where required.
- SLSNZ is working closely with MNZ to clarify the operational expectations of both parties for general and response activities while using patrol and rescue craft in New Zealand coastal waters.

7. AREC

- Have no issues or updates to report to the Council.

Avalanche Advisory Service SLA (June-July 2017)

8. Mountain Safety Council has supplied the monthly reports for June and July 2017.

- 35 avalanche advisories posted in June
- 3 avalanche advisories posted in July
- MSC hosted the Mountain Weather and Decision Tools Applied to Avalanche Forecasting seminar in Christchurch on 16 June 2017.
- MSC hosted the Southern Hemisphere Alpine Conference (SHAC) from 17-18 June in Christchurch. This was a two-day conference dedicated to Alpine safety, which all NZAA forecasters attended.
- There were three reported avalanche incidents in July, all in out of bounds areas of ski fields.



NZSAR 2-2

21 August 2017

NZSAR Council
NZSAR Consultative Committee

Search and Rescue Sector Update

The Search and Rescue sector update for the NZSAR Council and NZSAR Consultative Committee meetings for August 2017 is contained below.

Ambulance NZ

Nil report

Antarctica NZ

Antarctica New Zealand has an ambitious field season coming up for 2017/18. The 2017 season will begin on 22 September with Antarctica New Zealand staff heading south to Scott Base, Antarctica to open the summer season programme. The summer season will look to close out at the end of February 2018 and a reduced winter operations team leading the programme through until October 2018.

The Ross Sea region will be an active location this summer with National Antarctic Programme activities involving ENEA (Italy), KOPRI (Korea), CHINARE (China), Germany, USAP and Antarctica New Zealand summer.

There are a number of key deep field projects being conducted this summer on the Ross Ice Shelf, Cape Adare on the Northern Victoria Land coastline and intra continental Siple Coast. These activities will involve significant support logistically and operationally in remote regions of Antarctica.

AREC

Nil report

Coastguard NZ

It is with great regret that I report the passing of Mark Whitehouse, Operations Manager, Coastguard Southern Region, after a short illness. I should like to put on record my thanks to Duncan and the wider SAR community for their support during this challenging time for Mark's family.

Henry van Teul attended the ANSAR Conference in the Gold Coast and delivered a key note speech on SAR training.

Coastguard West Coast launched their new rescue vessel “Ivan Tally Rescue” on 10th June. The vessel was previously in service in Auckland as LION Rescue and has been redeployed to the South Island. There was great support from other SAR agencies.



Department of Conservation

Nil report

FENZ

Ian Duncan has been appointed Special Risks, Safety & USAR Manager for Fire and Emergency NZ, and as such is the focal point for the SAR sector.

We have had 3 deployments in the last 12 months: Kaikoura & Wellington (earthquake), and Edgumbe (floods). Each of these was primarily around data collection as Disaster Assessment Response Teams to inform the EOC.

We continue to be involved with INSARAG, and will soon start planning for our 2020 INSARAG External Reclassification.

We are carrying out our National Exercise in November, and a CAT 2 course in March 2018.

LandSAR NZ

Key initiatives advanced during the reporting period include;

- The completion and audit of the annual accounts for the LandSAR financial year ended 31 March 2017

- The production of the LandSAR 2016/17 Annual Report
- The 23rd LandSAR AGM held on 10 June 2017 in Wellington
- Continuing development and refinement of the LandSAR Safety Management System
- Induction workshops to accredit more LandSAR Competency Assessors.
- To date 109 assessors have been accredited and 1,264 competencies awarded.
- Negotiating a MoU with WanderSearch NZ Charitable Trust, and working with a new supplier of WanderSearch pendants to automate manufacturing.

Maritime Operations Centre

Nil report

Mountain Safety Council

Nil report

NZDF

A summary of RNZAF support to SAROPs

15/07/2016	P-3K2	NUO471	Rimpac SAR IVO KONA Island Hawaii	PHNG - PHNG	Civil Aircraft ditched in the sea off Kona Island, Hawaii.
20/08/2016	NH90	3304	Tararua Ranges/Otaki	NZOH-Levin- Search-Levin- NZOH	Missing Tramper Tararuas
22/10/2016	NH90	NZN791	MT TARANAKI - SYME HUT	OH - HAWEA - SYME HUT - HAWEA - OHAKEA	Stranded Tramper Mt Taranaki. Tramper hanged walk up the mountain on 21 Oct, before becoming starnded at Syme Hut due weather. Mountain Rescue became concerned with his ability to walk out after the weather hand changed mountain conditions substantially
8/11/2016	P-3K2	SAR955	IVO Tarawa	NZWP-NGTA- NVVV-NZWP	Tarawa Sar Case RCC 0775/16 (NADIRCC REQUEST). Three Males 7 days overdue in small wooden boat (17ft) sailing from Betio Village, Tarawa to Maiana, Kiribati.

11/12/2016	P-3K2	SAR567	West of TARAUA	NZWP-PKMJ-NZWP	NADIRCC case 37/2016. 3 Fishermen overdue from Betio on 5DEC in an 18ft wooden boat. Local air and sea search conducted. PB Nakoraoi in the area.
13/12/2016	P-3K2	SAR697	Tonga	WP-WP	RCCNZ 0883/2016. Two Tongan Fishermen missing since 10 DEC, fishing north of EUA Island IVO Tongatapu Is. Tongan Police Boat searched area. 14 FT Open Hull boat.
29/12/2016	P-3K2	SAR244	North Island, NZ	WP-WP	NZ POLICE request support to locate a Catamaran with 2 POB overdue on the West Coast NI, OP LANGDON. KRC244 tasked to search from Kawhia Harbour north, around North Cape and then into the Bay of Islands 12NM from land.
1/02/2017	NH90	NZN 258	TARANAKI	OH - NP - OH	On 31 Jan 2017 NZ Police called the HQJFNZ requesting assistance to infil LANDSAR teams to search for a missing German National.
4/02/2017	P-3K2	KRC 829	200nm WSW of Nukulofa	WP - WP	beacon search related to a 11.5 meter fishing vessel 200 nm of the coast of Tonga.
14/04/2017	P-3K2	KRC414	Disabled yacht east of Chathams	WP-WP, WP-WP	SV Regina R, disabled in high seas set off EPIRB. RCCNZ requested support to ascertain nature of distress and assist as able.
24/04/2017	P-3K2	KRC092	Missing motorboat between Nukulofa and Eua, Tonga	WP-TG, TG-WP	Local man was reporting missing on his way to Eua.
22/06/2017	P-3K2	KRC326	IVO Tuvana-I-Ra Atoll, Southern Fiji Is group	WP-WP	RCCNZ advised that a Beacon had been received from the SV Jungle. Family members had also advised RCCNZ that the Yacht had sent text messages suggesting they were in difficulty. Having broken the back stay during the night and unable to steer.

New Zealand Helicopter Association / Aviation NZ

Nil report

Police

SAR STATISTICS

In the reporting period from 1 April to 30 June 2017, 366 Category I incidents were reported - 234 Land and 132 Marine. This is a slight increase from the same period in 2016.

TRAINING

Police National SAR Course

This was held at Dip Flat in May; students were mostly newly Police SAR Squad members, reserves for SAR Squads, or remote/ sole charge stations where SAR is a component. The external participants on the course included Defence Base Contingency Force members, SERT and LandSAR, who all have involvement with SAR.

The standard of the participants was high, and all were at an appropriate level of skill and experience for the course. They were assessed against a range of SAR competencies that reflect the LandSAR Operational Team Member competencies. The overall course standard achieved was high, and a summary of achievements for each participant has been forwarded to their home District.

5 members from Canterbury and Marlborough AREC attended this year's course to assist with communications. They provided comprehensive mapping for VHF coverage, repeater and linking repeater locations, and also gave an excellent demonstration of the application of SARTrack for the final SAREX.

SAR Initial Management Training – Land & Marine

Previous SAR Managers courses have highlighted shortages in the number of Police trained to undertake SAR Initial Search Management. We are working with Tai Poutini Polytechnic to hold a number of Land and Marine Initial Response Management courses for Police Incident Controllers. Courses scheduled date include MTIR Land in Christchurch, MSART in Auckland, and MSART/MTMR in Invercargill, Christchurch and Blenheim.

All courses are open to partner agencies to attend also.

SAR Managers Course - NZ

The 2017 course was cancelled by the Police College due to fiscal restraints. We are currently considering options to hold OSC Training workshops.

SAR Managers Course - Australia

Unfortunately Police were unable to send a student to the National SAR Course in Canberra this year; it is hoped this will be revisited in 2018.

EXERCISES

Mass Rescue – Rauora II

Two exercises in this series are scheduled to be held in Tasman (November 1) and Auckland (November 7). Evaluations from all exercises will be posted on the NZSAR website

Two more exercises are scheduled as follows:

- Wellington, Wed 14 Feb 2018; and
- Eastern, Tue 13 Mar 2018.

NZSAR-funded SAREXes

Dates for the 2017-2018 programme are on the NZSAR website.

RCCNZ

Highlights from the fourth quarter of 2016/17:

- Continued progress with our Pacific SAR capability development Strategy, with the Seventh Regional Pacific Search and Rescue Workshop, hosted by New Zealand in Auckland, 22-26 May. A very successful conference with around 100 delegates for 22 countries. Excellent NZ media coverage for SAR.
- New Zealand has also agreed to be the host country this year for the ICAO/IMO Joint Working Group, at which ongoing development of the international guidance for Search and Rescue is developed – the IAMSAR manuals. Preparations have begun for this international meeting which will be held in Wellington in the first week of October 2017.

Our Core Business:

Incident breakdown by environment type, April - June 2017:

		Sea	Air	Land	Unknown	Quarter	YTD
CAT II	SAROP involving tasking	14	4	40	1	59	270
	Resolved by comms action	35	54	34	18	141	658
CAT I	Active involvement by RCCNZ	1	0	2	0	3	21
	SAD Produced by RCCNZ	2	0	0	0	2	20
	Active involvement & SAD	2	0	0	0	2	7
Other SAREX'S/ MAS/ Medevac	Operation involving tasking	3	1	2	n/a	6	16
	Resolved by comms action	2	0	2	n/a	4	10
Total (Quarter)		59	59	80	19	217	1002
Total (YTD)		290	267	331	114		

People Involved in incidents for the Quarter	
Number at Risk	269
Lives Saved	5
Lives Rescued	48
Lives Assisted	40
Perished	4
Not Located	0
Self-Assisted	162

Beacons
Beacon alerts made up 71% (151) of all incident alerts.
<ul style="list-style-type: none"> • Almost 23% of these were resolved to other Search and Rescue Regions (35) • Another 12% (18) were undetermined.
Of those that were activated in the NZSRR:
<ul style="list-style-type: none"> • 25% were real distress situations (39). • the remainder were inadvertent or false activations.

Our Work Programme:

RCCNZ's strategic work programme for 2017/2018 includes:

- Continued progress with the Pacific SAR capability work, with trips to the Cook Islands and Tuvalu to deliver SAR training
- Development and introduction of a new on-line database system and associated processes for the registration of NZ emergency distress beacons. Inclusive of a new education and communications campaign connecting to current and potential emergency distress beacon users to ensure appropriate understanding and use of beacons – website and brochure refresh.
- On-going support for Fiji SAR. Two Fijian SAROs being trained in NZ Aug-Oct 2017
- Two NZ SAROS being trained Aug-Oct 2017
- On-going development of the MRO Response Plan.

SLSNZ

SAR Operations:

The period April to June 2017 (Fourth quarter) has seen Surf Life Saving involved in twelve (12) Category 1 Search and Rescue Operations. The operations led to five (5) people being saved, eighteen (18) people being rescued. Surf Life Saving provided over eighteen (18) hours service as part of official Search and Rescue operations totalling 189 personnel hours for the quarter.

Category 1 Search and Rescue Operations occurred in three Police Districts during the fourth quarter, namely: Canterbury, Bay Of Plenty and Waikato.

Search and Rescue Operations: First Quarter	#
Category 1 Search and Rescue Operations	12
Category 2 Search and Rescue Operations	0
Lives saved	5

People rescued	18
People assisted	16
Perished	0
Other incidents	2
Unknown	0
Search and Rescue Operations: hours	19
Search and Rescue Operations: personnel	46
Search and Rescue Operations: total hours	189

SLSNZ Operations:

This period April to June has been very quiet time of year for Surf Life Saving services; due to the tail end of the lifeguarding season and on into the winter months. The ideal conditions that lead to one the busiest summers for SLSNZ came to a very abrupt end with an extremely cold snap that coincided perfectly with the last week end of most of the volunteer surf patrols around the top of the country. Even with the abrupt change into the cooler weather our members have still been kept busy with a number of searchers and rescue.

In addition to the Category 1 Search and Rescue Operations listed above (and detailed in the Appendices), surf lifeguards rescued (46) people, treated (30) members of the public for injuries, conducted a further eleven (11) searchers. Surf Lifesaving services amassed over 290 hours of service on the beaches, attending incidents and providing other services where required.

Surf Life Saving Operations: First Quarter	
People rescued	46
People treated (first aid)	30
Number of Searchers Carried out	11
Surf Life Saving Operations: hours	290

SLSNZ Organisational Update:

The following organisational changes or progress has occurred of relevance to the search and rescue sector:

- With the confirmation of the Rena wreck being able to be left on the seabed, we are one step closer to getting additional funding to finish of the Bay of Plenty / Coromandel Radio Communications Network, by filling in some gaps at both ends of the network.
- The Capital Coast Radio Communications Network Titahi Bay to Himatangi infrastructure is in place and will be operational for the coming season. We will look to extend further coverage once additional funding has been secured.
- The Southern Region Network is still being developed; the Christchurch and Otago clubs have been issued their terminals and both are working through 1 repeater. The next phase is to install at least 1 more repeater in each area to increase the coverage and ensure a level of redundancy within the systems.

- The remaining clubs still using only VHF sets are seeking funding to replace out their old technology with the new when funding becomes available. SLSNZ is developing a Strategy document to help guide the clubs when purchasing future communications equipment.
- Work is now being carried out looking to develop strong data links between the communications network and the Patrol & Operations database.
- During the winter months the clubs emergency after hours call out squads ECOS step up their training along with the training of most of the new IRB crews .This creates less disruption to summer patrols with essential assets being used for training as well as during winter there is far less public in the water where the training will take place.
- The Emsisoft Rip Mapping Research and Report has been completed. The next phase is to develop a collection process that stores the dirty data from the Lifeguards prior to it being cleaned ready for use from search and rescue agencies for reference. SLSNZ is also investigating the best way to make available the Drifters for Surf Lifesaving Clubs, Coast Guard Units and Police during live searchers.
- SLSNZ is well into the first phase of the Rescue Water Craft (Jet Ski) national rollout focused on mainly training this coming off season with some units becoming operational once a required standard has been reached. If successful the second phase will be “Full Operation” being aimed for the 2017-18 season along with further acquisition of the resources where required.
- SLSNZ is working closely with MNZ to clarify the operational expectations of both parties for general and response activities while using patrol and rescue craft in New Zealand coastal waters.

WSNZ

NZ drowning fatalities 2017 YTD (as at 11 August 2017)

Gender	NZ fatalities five year avg 2012-2016	NZ fatalities 2016 YTD	NZ fatalities 2017 YTD
PREVENTABLE			
Female	13	4	7
Male	64	37	33
Total Preventable	77*	41	40
NON-PREVENTABLE			
Female	7	3	3
Male	18	10	6
Total Non-preventable	26*	13	9
TOTAL			
Female	20	7	10
Male	82	47	39
Total	103*	54	49

* Totals may not equal due to rounding

2017 Investment round

The WSNZ 2017/2018 Investment round is almost complete. Applications have closed, been assessed and recommendations made by the review panel. The 2017 WSNZ Funding Business Case has been submitted and approved by the WSNZ Board and Sport NZ Board. Applicants were advised week beginning 14th August 2017, with emphasis aligned to funding priorities as follows:-

- Water survival competencies for 5 to 13 year olds (Water Skills for Life)
- Children under five
- High risk groups, activities and environments
- Innovation, research and value added opportunities

Full funding disclosure will be published in the coming weeks.

Political advocacy

We have met with most of the political parties over the past few months, including our own minister Dr Jonathan Coleman. Our discussions revolved around the decline in aquatic education through the school system and its' long term correlation to drowning prevention. Also discussed was the state of the water safety sector in NZ and the current Capability Review being undertaken by the sector. Whilst it's difficult to get traction for our plight leading up to the election, we have managed to get face time and an acknowledgement of our undertakings.

Capability Review

The Sector Capability Review is on track to deliver a recommended plan by October 2017. A sector stock take, environmental scan and GAP analysis are key phases of the project currently in commission. The Plan is been driven by a working group made up of key sector representatives and owned by the Chairs of WSNZ, SLSNZ, Swimming NZ and Coastguard NZ.

Auckland Regional Water Safety Plan

As part of our strategic approach to the regions, we have engaged with the wider Auckland region in developing a Water Safety Plan for the region. The project has been split into 3 phases:-

- Current state assessment – who's doing what
- Problem definition – gap analysis
- Outcome – the recommended plan

Currently we are mid-way through the 2nd phase with a recommendation due September advising WSNZ the most effective way to deliver drowning prevention interventions and investment into the Auckland Region aligned to the sector strategy 2020.

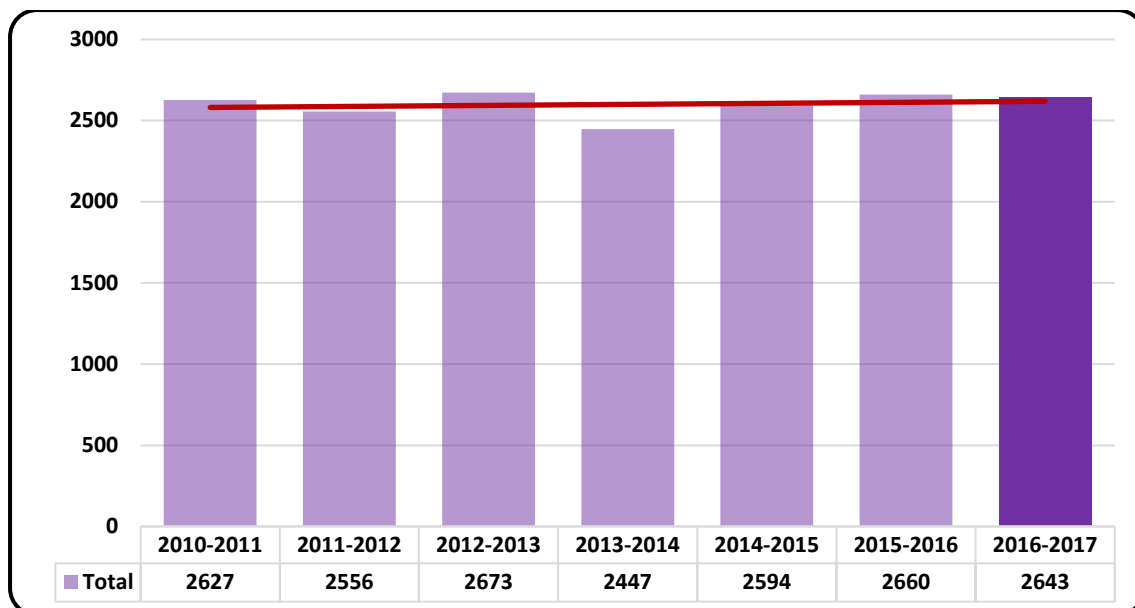
Data and Research

The Data and Research working group is overseeing the first phase of the sector data strategy. This will provide a test case for integrated sector data by beginning to quantify the drowning problem through comprehensive data collection and analysis on mortality, morbidity, incidents and total aquatic participation figures. The project will then work to create an enterprise data environment providing a sector-wide data resource that allows the flexible interrogation of all key datasets. This will form the basis for ongoing insights into the drowning problem.

2017 AGM/Members Forum

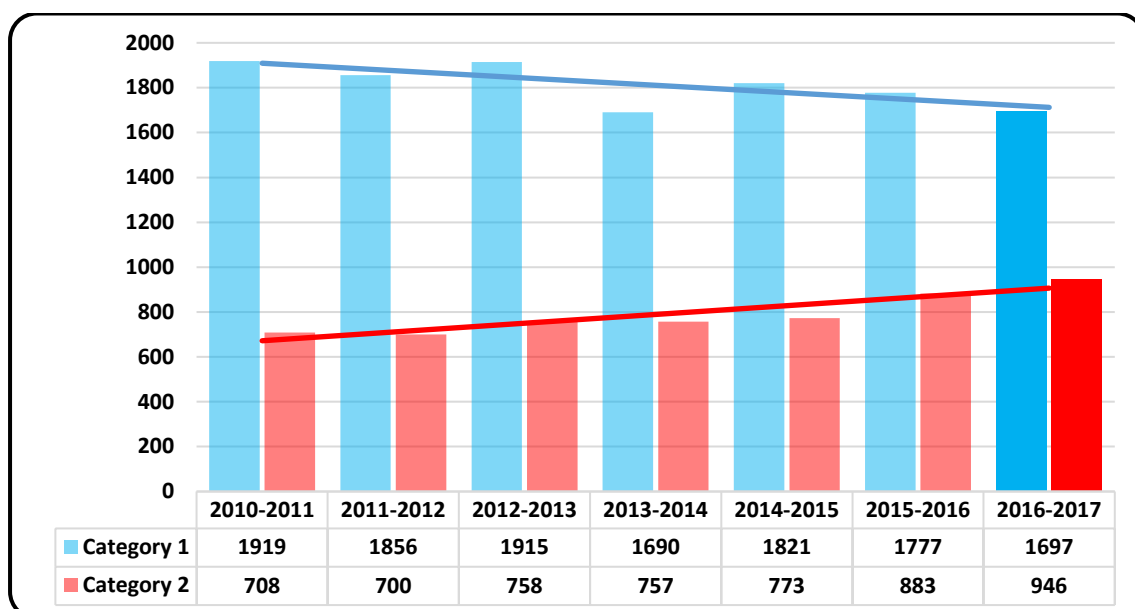
The Water Safety New Zealand AGM and Members Forum will be held on Thursday 26 October, at The Ferrybank in Hamilton.

SAR statistics 2016/17 – initial report



Graph 1 Total SAR Incidents with trend line

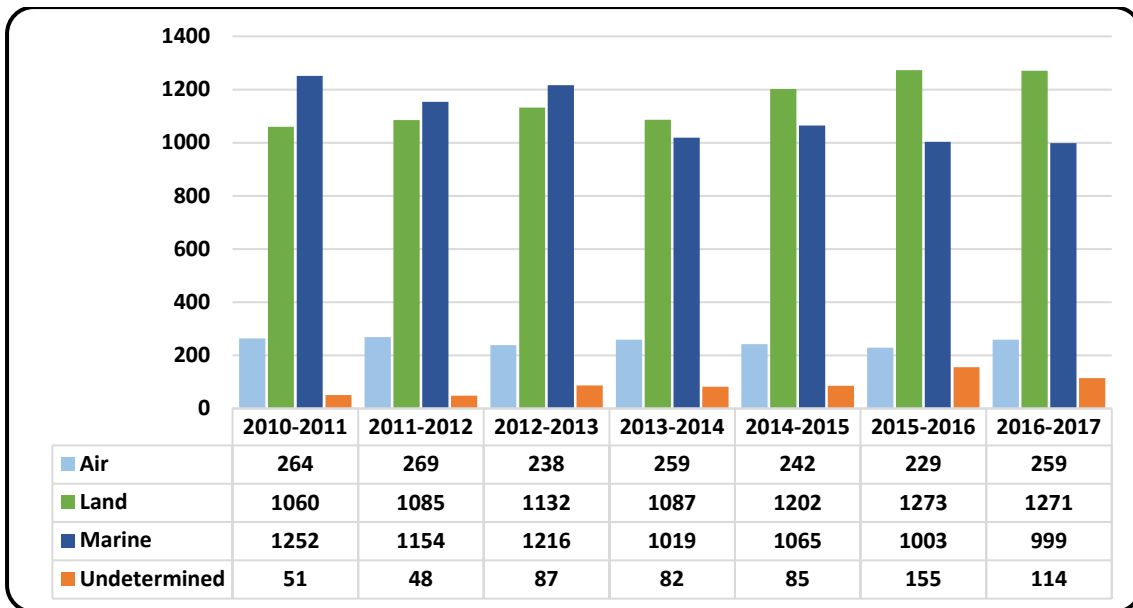
Total SAR incidents has a flat trend line over the last 7 years.



Graph 2 Total SAR Incidents by Category (with trend lines)

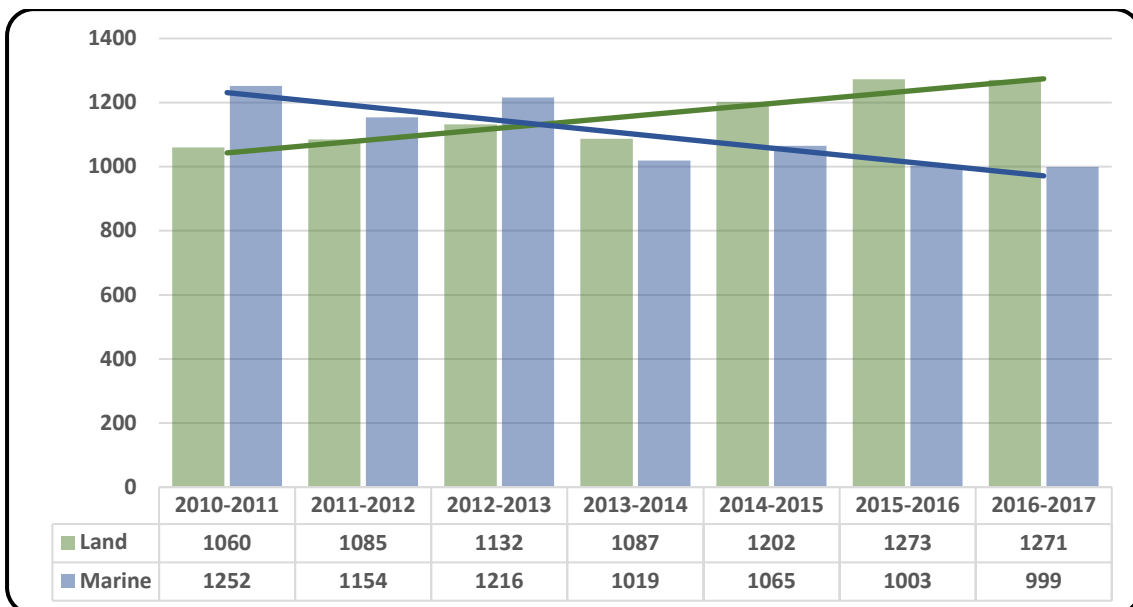
While the overall number of SAR incidents has been steady, the previously identified trend of decreasing Cat 1 and increasing Cat 2 incidents has continued for 2016/17.

In 2010/11, 26.5% of incidents were Cat 2. In 2016/17, it was 35.7%



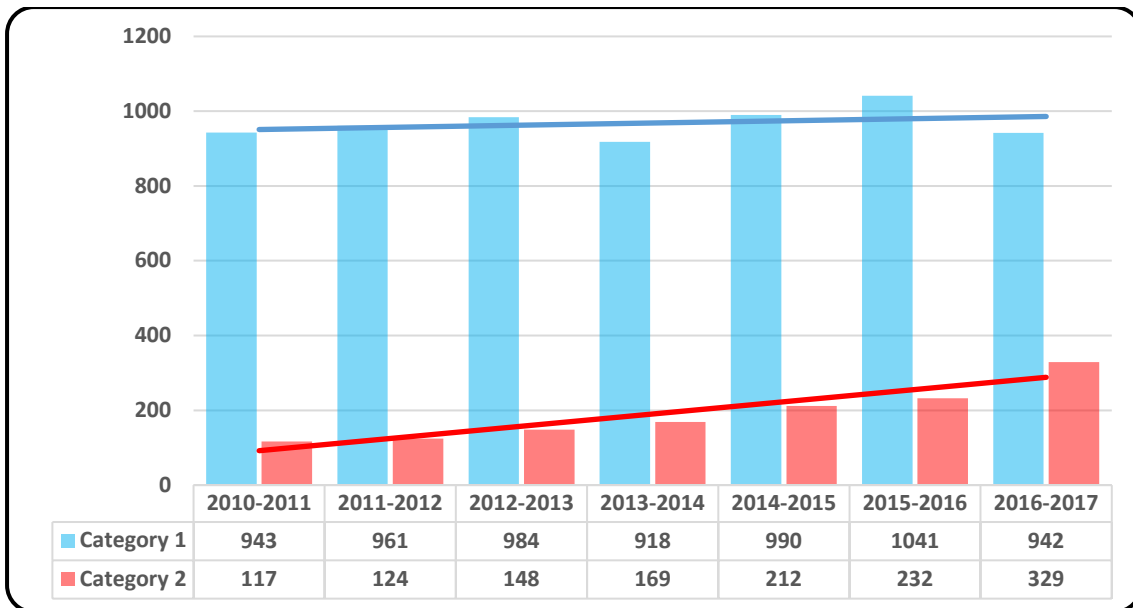
Graph 3 SAR Incidents by Environment

The breakdown of SAR incidents by environment for 2016/17 is almost identical to the previous year.



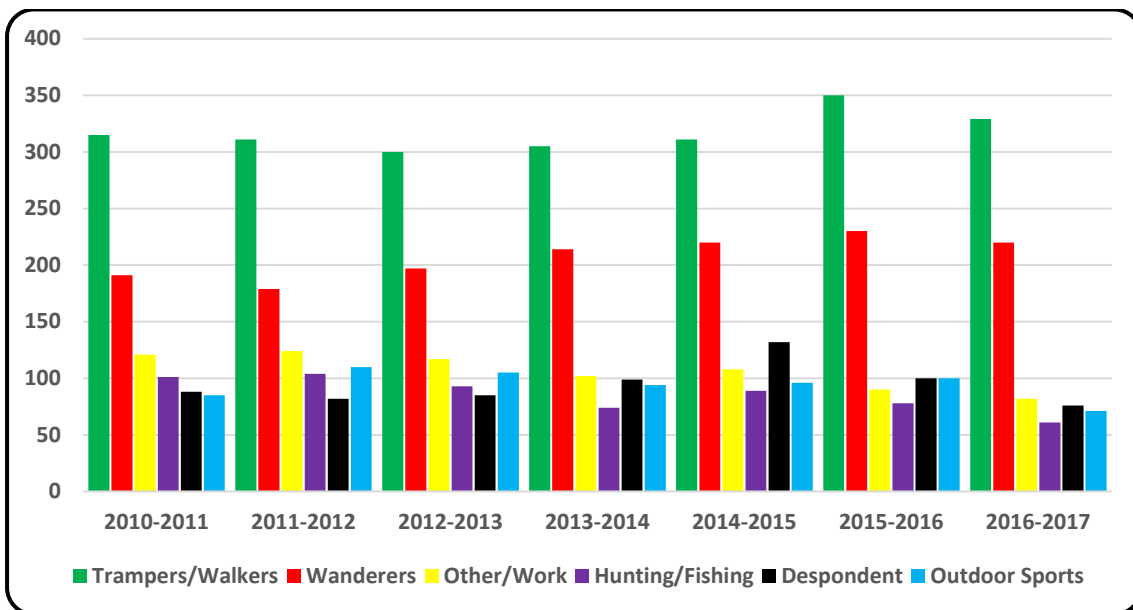
Graph 4 Trends for land and marine incidents

The previously identified trend of decreasing marine and increasing land incidents – 2016/17 is similar to the previous year.



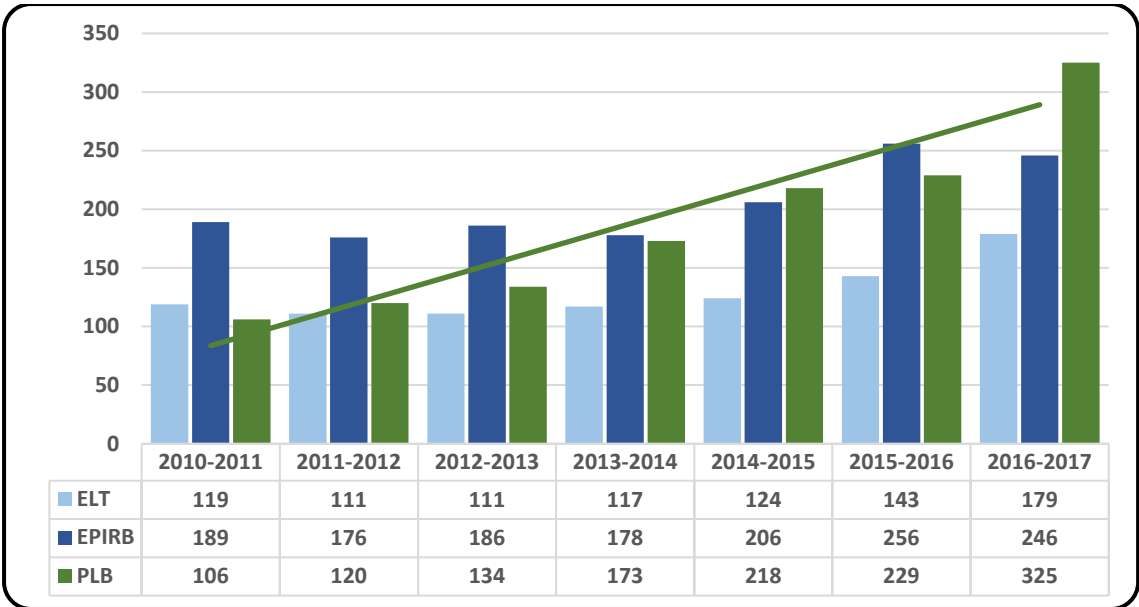
Graph 5 Land incidents by category

Cat 2 land incidents steadily increasing.



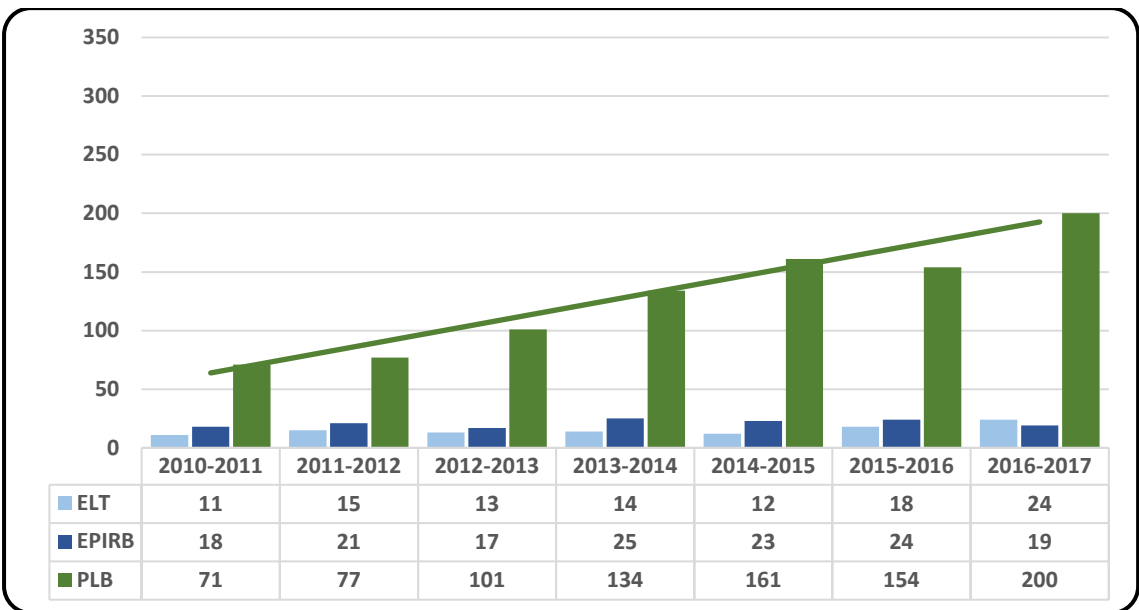
Graph 6 Category 1 land incidents by subject behaviour category

The decrease in Category 1 land incidents from trampers/walkers and outdoor sports (possibly turning up as cat 2 incidents)



Graph 7 Distress Beacon alerts (all)

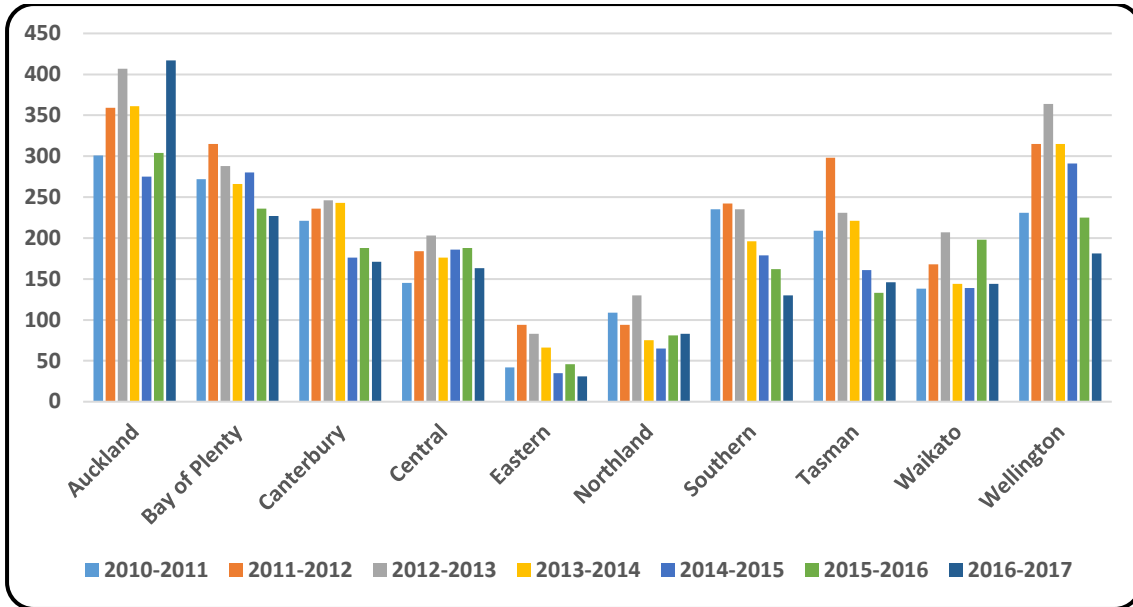
Significant step increase in the total number of PLB alerts received last year.



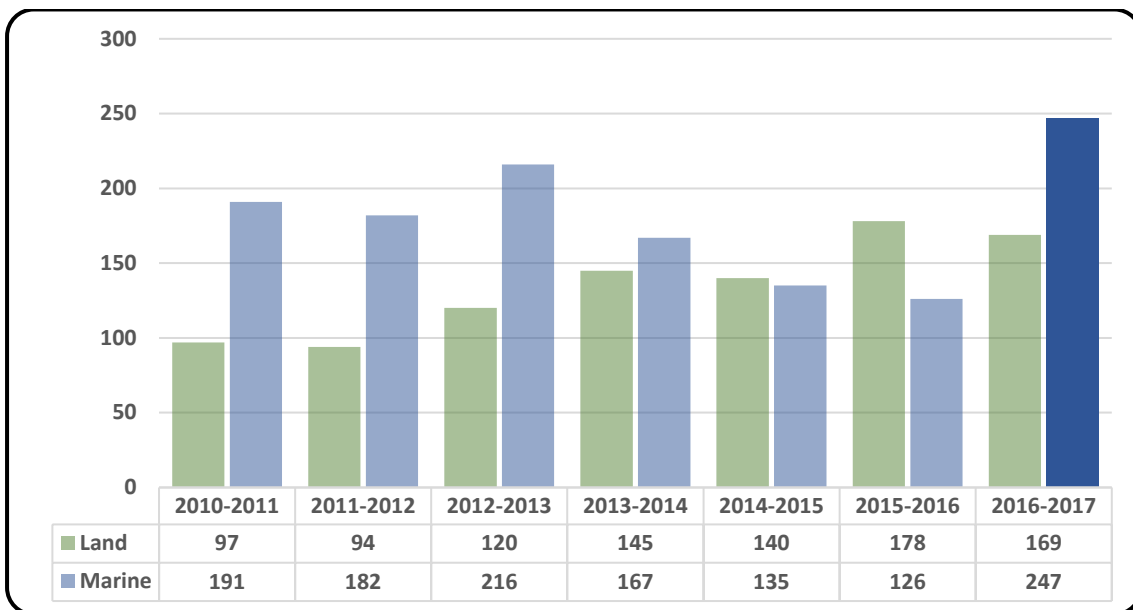
Graph 8 Distress Beacon alerts (real OR questionable need for SAROP)

Similar trend for PLB alerts that are real or questionable need for SAROP. In 2013/14 this was 78% of all PLB alerts – last year this had dropped to 62%.

Row Labels	Saved	Rescued	Assisted
2010-2011	310	717	1561
2011-2012	171	759	1300
2012-2013	187	745	1301
2013-2014	129	810	979
2014-2015	149	653	990
2015-2016	201	741	900
2016-2017	160	670	927
Grand Total	1307	5095	7958

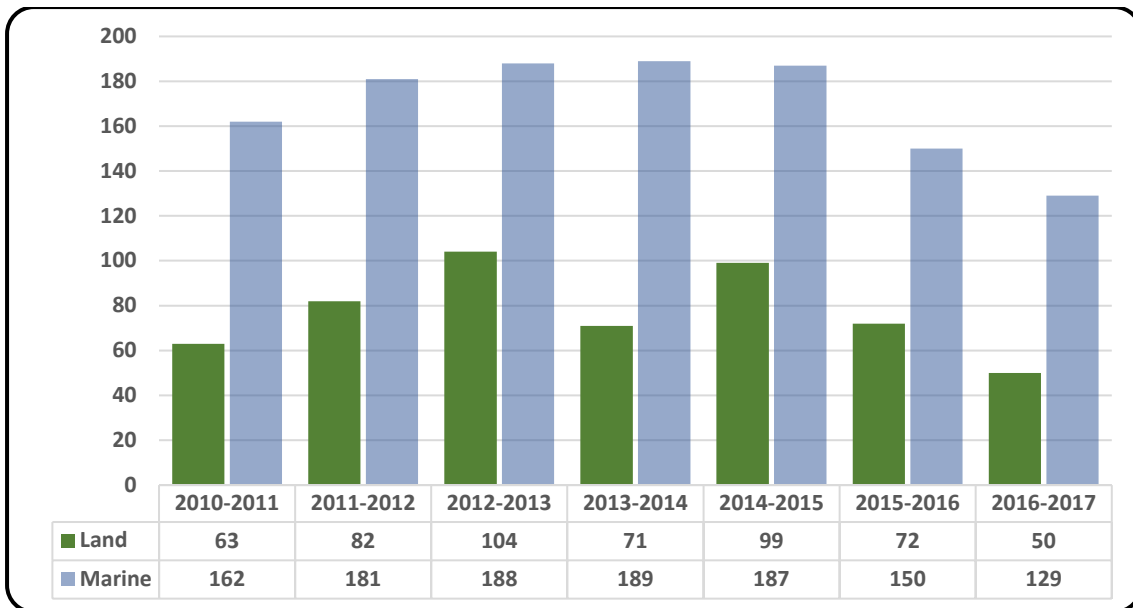


Graph 9 Category 1 incidents by Police District



Graph 10 Category 1 incidents for Auckland (3x combined Districts)

Significant increase in category 1 marine incidents for Auckland Districts last year.



Graph 11 Category 1 incidents for Wellington police District

Direct correlation between Cat 1 land incidents in Wellington District and summer weather patterns over the last 7 years.

Graph 12 <http://www.stuff.co.nz/national/88981586/Wellingtons-bummer-summer-fewest-beach-days-since-1987>

23 August 2017

NZSAR RISK MATRIX

Risk #	Risk Description	Reasons or Causes	Consequences	Likelihood	Impact	Risk Level (reviewed)	Risk Treatment(s)	Post Treatment (Effective from...)	Comments/Examples
2017/01	SAR Information Search and rescue information is inadequate or unreliable for future planning.	SAR data collection is fragmented, lacks cohesion and is typically collected to meet the requirements of individual organisations. Properly analysed longitudinal information is difficult for decision makers to access. Data gaps and omissions render sound analysis difficult. In some instances, excessive detail is being collected. Insufficient focus is placed on the analysis of existing data. Drivers of SAR demand such as activity participation is not well understood.	Without reliable information, NZSAR will be unable to identify strategic changes and opportunities for the SAR community. Effective decision making is compromised by the lack of reliable, analysed data. Information can also be hard to access as it can reside within silos.	Possible	Moderate	(May 14)	Risk treatment 2017/01/A: SAR Data Standard In consultation with operational SAR agencies, develop and document an agreed SAR data standard for collection, collation and analysis.	2017	Changing patterns in, for example, society, demographics, tourism, recreational activities, participation rates and technology is likely to impact on SAR needs and resources.
						(May 14)	Risk treatment 2017/01/B: Data exchange and storage Establish and maintain a single repository for all SAR data.	2018 (Project SARdonyx)	
						(May 14)	Risk treatment 2017/01/C: Data analysis Analyse SAR data to identify trends and patterns in SAR events. Such analyses should be used in conjunction with other data to show broader trends and patterns. The resultant products will be made available to decision makers and stakeholders.	2018	
						(May 14)	Risk treatment 2017/01/D: SAR Operational Analysis Conduct an operational analysis of SAR need mapped to SAR resources. Assist SAR providing agencies to reshape their organisations to match proven SAR need.	2018/19	
2017/02	SAR Funding The sector experiences funding sufficiency and volatility risks.	Sufficiency. Funding for the wider SAR sector has a variety of sources. Funders may choose to lessen or withdraw their funding support.	Inadequate funding for part or some of the sector may limit investment in training or equipment and lead to inadequate operational responses.	Possible	Moderate	(March 15)	Risk treatment 2017/02/A: SAR Funding Maintain an overall SAR funding picture. Work with other key SAR funders to sustain adequate supply. Maintain adequate PLA funding to meet Council goals.	Ongoing	
		Volatility. The funding levels for SAR agencies can be volatile due to profit variances with key gaming or lotteries trusts & boards. Grants policies also frequently change which can affect eligibility. Public appeals & donations are susceptible to change.	Volatile funding inhibits long term planning and investment. It also degrades sector effectiveness and efficiency.	Possible	Moderate	(March 15)	Risk treatment 2017/02/B: Funded SAR SLAs Continue to support key SAR providing agencies with appropriately funded three year Service Level Agreements.	Ongoing	

23 August 2017

Risk #	Risk Description	Reasons or Causes	Consequences	Probability	Impact	Risk Level (reviewed)	Risk Treatment(s)	Post Treatment (Effective from...)	Comments/Examples
2017/03	<p>Cohesive and effective SAR Training</p> <p>The competence and capability of SAR individuals is dependent on effective training and assessment. SAR training is largely decentralised and varies significantly.</p>	<p>SAR training can be delivered within organisational silos and can differ within organisations. The perspectives of individual organisations have frequently taken precedence over the needs and goals of the wider sector.</p> <p>Continuation or refresher training is often absent allowing skills to degrade over time</p> <p>Search management arrangements and skills can be deficient resulting in inadequate search effectiveness and potentially external investigation and/or criticism.</p> <p>The SAR sector's training is largely conducted within organisational silos and is not united by collectively agreed doctrine.</p>	<p>Training variances can impact on sector collaboration and degrade inter agency and internal cohesion. Training divergence can lead to incompatible incident management systems, different understanding of language and incompatible expectations, SAR processes and priorities.</p> <p>These factors can contribute to deficient SAR services, inefficiencies and potentially avoidable loss of life.</p> <p>They can also lead to damage to the reputation of the NZ Search and Rescue community. And harm New Zealand's international reputation as a safe destination for adventure tourism.</p>	High	Moderate	(May 17)	<p>Risk treatment 2017/03/A: Suitable individual SAR skill acquisition training is available, funded and sound.</p> <p>SAR (ACE) funded skill acquisition training is made available for SAR people so that they may achieve the relevant SAR competencies at no cost to themselves.</p>	Ongoing	Skill acquisition training is effective. SAR(ACE) arrangements are problematic
						(May 17)	<p>Risk treatment 2017/03/B: Collaborative SAR training and exercising</p> <p>Undertake cooperative and collaborative training, exercising and relationship building.</p>	Ongoing	NZSAR supports the conduct of Police District SAREXs and the Raoura Mass Rescue Exercise series
						(May 17)	<p>Treatment Option 2017/03/C: IMTEX. Undertake independently planned, delivered and assessed regional IMTEX's involving multiple agencies to broaden, update and standardise search management practices. Also to maximise the pool of competent and current regional search managers.</p>	2019	
						(May 17)	<p>Risk Treatment 2017/03/D: Continuation/Refresher Training</p> <p>Encourage all SAR agencies to plan and undertake continuation or refresher training in order to retain skills and maintain engagement with SAR.</p>	Ongoing	Continuation or refresher training is the responsibility of the SAR sector as an "industry".
						(May 17)	<p>Risk Treatment 2017/03/E: Revalidation</p> <p>Work with Police to develop a SAR coordinator revalidation system.</p>	2019-2020	
						(May 17)	<p>Risk Treatment 2017/03/F: Incident Review</p> <p>Independent review of randomly or targeted SAROPs. Use the results to inform and update SAR doctrine and training material</p>	2019	
						(May 17)	<p>Risk Treatment 2017/03/G: Doctrinal Basis</p> <p>Develop and maintain agreed, unified doctrinal documentation for the conduct of SAR in New Zealand.</p>	2018	New Zealand SAR Guidelines

Risk #	Risk Description	Reasons or Causes	Consequences	Probability	Impact	Risk Level (Reviewed)	Risk Treatment(s)	Post Treatment (Effective from...)	Comments/Examples
2017/04	Volunteerism Risks exist around volunteer recruitment, retention and training.	Changing demographics and attitudes, increasing work demands impact on volunteer recruitment, availability and longevity with the SAR sector.	<p>The SAR sector is highly reliant on volunteers for the safe delivery of effective SAR services.</p> <ul style="list-style-type: none"> Insufficient numbers of volunteers in the right locations is likely to impact on the safe delivery of effective SAR services. Volunteer turbulence increases the training burden and inhibits the formation of SAR leaders. Excessive training demands, poor or infrequent exercises and/or onerous administrative requirements deter people from volunteering and discourage existing volunteers from remaining. Infrequent utilisation for SAROPs can be dispiriting and discourage long term engagement. 	Unlikely	Moderate	Nov 15	<p>Risk treatment 2017/04/A: Maintain good information on SAR volunteers</p> <ul style="list-style-type: none"> Maintain good information about SAR volunteers and their expectations. Assist SAR organisations with information around recruitment and retention of volunteers to help ensure a sufficient number in areas and types of need. Ensure administrative requirements are not excessive. 	2018 - 19	
		Growing public and legal expectations of SAR performance and competence impacts upon the training and commitment levels of SAR volunteers.					Nov 15	<p>Risk treatment 2017/04/C: Quality SAR individual skill acquisition training and collective exercises</p> <p>Refer Risk treatments 2017/03. The conduct of good quality, appropriately focussed and well evaluated SAR exercises is important as they enhance readiness, reinforce training and build cohesiveness and morale within the SAR sector.</p>	
		Trained SAR Volunteers can be difficult to retain and motivate in areas where little SAR activity occurs.							
2017/05	Nationally Significant Search and Rescue Event. Certain search and/or rescue events may overwhelm normal SAR capabilities and trigger the involvement of the National Security System.	Nationally significant SAR events may: require considerable resources to resolve; involve significant numbers of people and/or fatalities; attract substantial domestic and international attention; introduce reputational risks to SAR agencies and New Zealand.	<ul style="list-style-type: none"> Significant numbers of people injured or killed that could have been rescued. Severe reputational damage to SAR agencies. Severe reputational harm to New Zealand as a tourist destination. 	Rare	Severe	Mar 17	<p>Treatment option 2017/05/A: Develop mass rescue /abnormal flight policy and plan.</p> <p>In conjunction with partner agencies, develop appropriate search and rescue policies, plans and procedures.</p>	SAR Policy Complete MTI Policy under development 2018 Unitary Plan under development 2018	This risk is seen as very high consequence but low likelihood.
		New Zealand's SAR sector has very limited capacity to respond to large scale SAR events and we have a very large SAR region with little or no SAR assets able to cover much of the region. Significant numbers of vessels and aircraft with large amounts of passengers transit the NZSRR.					Mar 17	<p>Treatment option 2017/05/B: Conduct regular mass rescue /abnormal flight exercises.</p> <p>In conjunction with partner agencies, exercise the relevant plans regularly in order to practise, validate and refine them. (see also risk treatments for Risk 2017/03)</p>	

Risk #	Risk Description	Reasons or Causes	Consequences	Probability	Impact	Risk Level (Reviewed)	Risk Treatment(s)	Post Treatment (Effective from...)	Comments/Examples
2017/06	Recreational Knowledge Inadequate public understanding of personal risks taken during recreational activities.	A significant number of the public demonstrate a lack of understanding or underestimation of the risks involved with the recreational activity they are undertaking. Due to: <ul style="list-style-type: none"> Decrease in public knowledge about recreational safety. Increase in the range of recreational activities. Little investment in proactive safety message promotion – particularly land, snow and avalanche safety information. Lack of understanding by inbound tourists about New Zealand's conditions and weather. Poor coordination and cohesion between the plethora of competing agencies which provide safety advice. 	<ul style="list-style-type: none"> Individuals fail to take adequate precautions and/or responsibility for their own safety. Unacceptable levels of harm to New Zealand residents and foreign tourists. Harm to the reputation of New Zealand as a tourist destination. Unrealistic public expectations of the SAR sector. 	Likely	Moderate	(May 14)	Risk treatment 2017/06/A: Ensure the public has access to good quality, consistent safety advice. Maintain the NZSAR Adventure Smart website (http://adventuresmart.org.nz/) and support the promulgation of consistent sector messaging.	Ongoing	For Review September 2017
						(May 14)	Treatment option 2017/06/B: Recreational safety - provision of consistent information to the media. Support the relevant agencies to provide timely information to the media on personal responsibilities and better preparation when undertaking outdoor recreational activities.	2018	
						(May 14)	Treatment option 2017/06/C: Support domestic safety organisations. Support the SAR prevention efforts of domestic safety information providing agencies. Encourage and harmonise collaborative action.	2018	
						(Nov 15)	Treatment option 2017/06/D: Implement the NZ Inc Recreational Safety Strategy.	2018	
2017/07	Health and Safety Incident of avoidable harm to one or more SAR persons occurs.	NZ's H&S regulatory environment has changed. The SAR sector needs to adapt to the new requirements and implement the required changes for the SAR context.	<p>SAR organisations, team and individuals fail to implement appropriate / necessary H&S processes and procedures. An Avoidable harm situation results.</p> <p>Audit or investigation detect and report on seriously deficient H&S arrangements.</p> <p>For all three circumstances, the sector may be:</p> <ul style="list-style-type: none"> Exposed to risk of prosecution. Audit exposes SAR sector health and safety deficiencies. Suffer reputational damage. Experience an outflow of personnel due to perceived risk. Experience an outflow of personnel due to excessive H&S process requirements. Likely to expect significant external pressure / investigation / regulation / over watch following the trigger event. 	Unlikely	Major	(Mar 17)	Treatment Option 2017/07/A: Implement sound H&S processes and procedures NZSAR Council H&S processes and procedures for the SAR sector have been approved and are being implemented. The five SLA documents include H&S provisions. SAR sector H&S monitoring and reporting occurs at the SAR strategic H&S Committee and a variety of other interagency SAR forums. H&S experiences and lessons are shared between SAR partner agencies. H&S Advice for the use of non-standard SAR assets is being developed.	Ongoing	
		One or more SAR persons is harmed or killed due to avoidable, and reasonably predictable circumstances.				Rare	Severe	(Mar 17)	

Risk #	Risk Description	Reasons or Causes	Consequences	Probability	Impact	Risk Level (Reviewed)	Risk Treatment(s)	Post Treatment (Effective from...)	Comments/Examples
2017/08	SAR Expectations Stakeholders and public develop unrealistic expectations of SAR capacity and capabilities	A lack of knowledge about SAR sector capabilities and limitations may lead to unwarranted expectations.	In the event of a mass rescue, mass search or a SAR incident at the extremities of the NZSRR, the media, public and senior stakeholders may unduly criticise SAR agencies and/or demand actions by SAR agencies that are beyond our capabilities.	Rare	Major	(Jul 15)	Treatment Option 2017/08/A: Advise senior stakeholders of SAR Sector capabilities and limitations Provide update briefs to HRB and Ministers regarding SAR capabilities and limitations.	Ongoing HRB note Nov 15, May 2017	
		Regular reporting of successful SAR operations may lead to a false sense of SAR capabilities by the media and significant stakeholders.	Inappropriate SAR sector investment due to a misunderstanding of SAR expectations Members of the public may suffer undue hardship or cause unnecessary cost on the SAR system due to misunderstanding its capabilities and limitations.			(Jul 15)	Treatment Option 2017/08/B: Advise media stakeholders of SAR Sector capabilities and limitations Distribute the NZSAR annual report to media outlets. RCCNZ and NZ Police hold an annual SAR media briefing and specifically note SAR sector capabilities and limitations.	Ongoing	
				Likely	Moderate	(Nov 15)	Treatment Option 2017/08/C: Undertake a benchmarking survey of SAR expectations Engage with the public on occasions to ascertain what their expectations of SAR are and measure trends in expectations.	Undertaken 2016, next 2018	
2017/09	SAR Technology The SAR community may not know of or be able to acquire technologies that have the capacity to significantly increase SAR effectiveness.	Technology development and change occurs at a very fast pace. Technologies which might aid or transform SAR are difficult to identify and hard to fund.	The sector may be challenged operationally and criticised by not utilising the most appropriate technology for an operation.	Likely	Moderate	(Mar 17)	Treatment Option 2017/09/A: Organise occasional SAR technology workshops to identify technological trends and opportunities relevant to SAR.	Planned 2018	
		Different SAR agencies might select different, non-compatible SAR technologies.	Non compatible technologies may hinder our capacity to collaborate and cooperate.				Treatment Option 2017/09/B: Monitor and report on technologies relevant to SAR.	Ongoing	
							Treatment Option 2017/09/C: Identification (and possible support) of incident management team support software.	2017/18	

Risk #	Risk Description	Reasons or Causes	Consequences	Probability	Impact	Risk Level (Reviewed)	Risk Treatment(s)	Post Treatment (Effective From...)	Comments/Examples
2017/10	SAR Demand Changes to the nature of SAR demand.	Change in SAR demand may be caused by shifts to New Zealand's demographic profile, population growth (or shrinkage), urban spread, tourism growth, climate / meteorological / geological change, new or changed recreational pursuits and/or locations. Change may also occur in personal risk appetite and/or preparedness to request SAR assistance.	The sector may find itself inadequately prepared and resourced to respond to changes in SAR demand. Resources / capabilities / coordination may not be appropriate nor possess the relevant skills and equipment to effectively respond. Conversely – costly existing capabilities may be excessive to meet a changed SAR demand profile. Changes to SAR capacity can be very costly. Volunteers in Units / Clubs / groups may be resistant to change. The ability of SAR agencies to respond or scale to identify change is limited. The sector has very limited internal capacity to recovery from natural disasters. Sector may have the 'right' resources in the 'wrong' locations.	Likely	Moderate	(May 17)	<p>Treatment Option 2017/10/A. Environmental Scan NZSAR will maintain a clear picture of SAR demand and trends. Integrated this picture with demographic, population, recreation and tourism trend projections prepared by other agencies. Information will be shared as appropriate.</p> <p>Treatment Option 2017/10/B. The sector will work collectively to recognise and then adapt to observed or likely changes.</p> <p>Treatment Option 2017/10/C. The sector acts rapidly to address sudden or unforeseen changes.</p> <p>Treatment Option 2017/10/D. Develop 'demand change' projects to identify, explore and make change recommendations for SAR organisations.</p> <p>Treatment Option 2017/10/E. NZSAR to shape and influence identified change needs through its work programme and service level agreements.</p>	<p>Develop and maintain a clear picture of SAR demand. (2018)</p> <p>Work with SAR sector agencies via existing channels to adapt to change. (ongoing)</p>	<p>Initial focus on:</p> <ul style="list-style-type: none"> Wander SAR Antarctic SAR



NZSAR Secretariat and National SAR Support Programme

2017 / 2018 Work Plan

NZSAR11-3

Impact: Support the provision of effective search and rescue services for people in distress throughout the NZSRR

Item	Outputs	Responsibility	NZSAR Goals	NZSAR Risks
NZSAR Workshops and Seminars				
SAR Technology Seminar	A two day seminar to discover, discuss and assess new or evolving technologies which may benefit SAR	NZSAR Secretariat	1,2,3	01, 05, 08, 09
Aviation Workshop	Two day aviation & SAR workshop focussing on realising the aviation engagement framework	NZSAR Secretariat	1,2,3	08,01,03, 10
Case Study seminar and Police planning meeting	Two day Police and SAR partner case study seminar and SAREX planning meeting	NZSAR Secretariat	1,2,3	08,06,03,01, 05
Safer Walking / Wander	Safer Walking Search techniques workshop	NZSAR/LandSAR	1,3,4	03,08,10
Workshop organising support	Event planning and administrative support for workshops, training and awards	NZSAR Secretariat	1,2	
SAR Information and IT				
Maintain NZSAR IT infrastructure	Maintain and service, Cloud servers, SARNET, NZSAR Website and the START knowledge library.	NZSAR Secretariat / IT Rescue Solutions	2,3,4	01, 07, 08, 09, 10
Update SAR Resource database	Update the SAR resource database, improve functionality and features.	NZSAR Secretariat / IT Rescue Solutions	2,3,4	01, 07, 08, 09, 10
NZSAR Data store (existing version) maintenance and operation	Maintain, update and query the existing NZSAR Data store	Hague Consulting	1,3,4	01, 08, 06, 04, 03, 02
SAR Information system	Project SARdonyx. Develop a new system to replace SAR operational information system	Contractor(s) TBC		01,07,09,10
Incident Management Team software	Review, select and possibly support Incident Management Team software	NZSAR Secretariat	1,3,4	01, 08, 05, 04, 03, 02
Portable Mobile Phone locating Project	Assess options, risks and challenges for Portable Mobile Phone locating	Contractor TBC		09,10
NZSAR website	Update and refresh the NZSAR website	Contractor TBC		01,03
SAR Documentation				
SAR Forms and guidelines	Maintain SAR sector forms and guidelines	NZSAR Secretariat	1,3	03
New Zealand SAR Guidelines	Develop and publish New Zealand SAR Guidelines establishing a centralised doctrinal basis for the conduct of SAR in NZ	Contractor TBC	1,2,3	01,03,06, 08,10

Item	Outputs	Responsibility	NZSAR Goals	NZSAR Risks
Search and Rescue Exercises				
NZSAR support for Police SAREXs	SAREX development, monitoring and debrief support for 10 Police Districts. (\$7.5k per SAREX)	NZ Police / NZSAR Secretariat	1,2,3,4	03,06
Mass rescue SAREXs	Plan and run five 'walk level' Raoura desktop mass rescue SAREXs	NZSAR Secretariat	1,2,3,4	03,06
Practical SAR exercises	Enhance selected SAREXs to achieve objectives useful for the development / confirmation of sector plans and strategies.	NZSAR Secretariat	1,2,3,4	03,06
Incident Management Team Exercises	Plan and run IMTEXs to test and validate the capability of selected incident management teams	NZSAR Secretariat	1,2,3,4	03,06
Drifters / Trackers	Review and assess the options and applicability and of drifters for SAREXs and SAROPs	NZSAR Secretariat	1,3	09
SAR Research and Reviews				
SAR Customers	A survey of people who have experienced SAR services		2,4	01,02,05
SAR Supply and Demand Study - Land and Marine	Study into SAR demand and related SAR sector capabilities in the Land and marine environments	Contract	1,2	01
Mass Rescue Study	Conduct a study to determine if changes should be made to SAR Policies, plans, resources, skills or equipment to de-risk NZ should a mass rescue event occur within the NZSRR.	Contract	1,2	01,02,05
SAR Communications – Land	Implement the recommendations of the SAR Telecommunications Working Group (land)	Contract	1,2	06,08,10
SAR Performance Measurement	Design and establish a SAR system performance management framework	Contract	1,2,3	01,03,04,06,07,08,10
SAR Aviation Framework	Implement the recommendations of the SAR – Aviation provider engagement framework	Contract	1,2	08,01,03,06

Item	Outputs	Responsibility	NZSAR Goals	NZSAR Risks
Training and Training Development				
Training advice and support	Training advice and support	Contractor	1,2,3	03,04,08
Air observer training	3x Air observer training events	TPP / RCCNZ	1,2,3	03,04,08
SAR(ACE) Training survey	Independent survey of students who have received SAR (ACE) training	Contractor	1,3	01,03,04,08
Evaluation Training	Create and teach the knowledge, skills and attributes of a SAREX evaluator	Contractor	1,3	03,04,06,08,
START Material	Develop and host additional SAR material for the START SAR knowledge library	Contractor	1,3	03,07,09
Prevention Initiatives				
Prevention Coordination	Plan, coordinate and manage NZSAR Prevention activity and initiatives		04	06
AdventureSmart Communications	Maintain and update AdventureSmart, Promote linkages, Support the prevention partnership including social media	NZSAR Secretariat	4	06, 08
AdventureSmart website	AdventureSmart website update and maintenance	Wired IT Solutions	4	06, 08
AdventureSmart graphic design	AdventureSmart graphic design tasks as required	Bunkhouse	4	06, 08
SAR Prevention social media	SAR Prevention social media engagement	Contract	4	06, 08
SAR Prevention printing and advertising	Limited printing and placement of AdventureSmart material.	Contract	4	06, 08
Brochure storage and distribution	Safety Code brochure storage and distribution	Visitor Point	4	06, 08
Visitor intentions process maintenance	Maintain and promote the visitor intentions	MSC (contract)	2,4	06, 08
Boating Safety Code	Support Coastguard promote the Boating Safety Code	Coastguard	4	06, 08
Prevention Research	Research into the effect and reach of various prevention activities	Contractor	4	06, 08, 01, 10
SAR Guide	Public facing communications to explain how the SAR system works and what might be expected	Contractor	4	06, 08
EOTC Safety Code lesson	Develop education outside of the classroom lessons focussing on the elements ion the three safety codes.	Contractor	4	06, 08

Item	Outputs	Responsibility	NZSAR Goals	NZSAR Risks
NZSAR Secretariat				
Strategic Communications	Communications advice incl Link Newsletters, Annual report, prevention activity & knowledge management	Secretariat / Contractor	1,2,3,4	01,02,03,04,08, 09,10
NZSAR Awards and various catering	Host the 2017 NZSAR Awards plus general 2017/18 catering	Secretariat	4	04
Printing and graphic design Link/AR	Printing and graphic design costs for Link, annual report, strategic plan and miscellaneous.	Secretariat	1,2,3,4	01,02,03,04,08, 09, 10
International Travel	Attend the Australian NATSAR, ANZSAR Conference, SARSCENE Conference and possibly the EuroSAR / MRO G5 conference	Secretariat	1,2,3,4	06, 10, 08, 01, 03, 04
Domestic travel	Secretariat domestic travel costs plus sector travel support	Secretariat	1,2,3,4	01,03,04,06,08, 09,10
Conference & Course	Secretariat conference and course fees	Secretariat	4	03
NZSAR miscellaneous	Secretariat costs for individual training, phones, IT etc	Secretariat	4	
Health and Safety advice	Technical H & S advice to implement NZSAR H&S strategy	Secretariat/Contract	1,3,4	08
Risk Management advice	Technical risk management advice as required	Secretariat/Contract	1,3,4	08
Independent NZSAR Council member	Support for the Independent NZSAR Council member	Secretariat	1,2,3,4	All
IMRF Membership	Half payment (with RCCNZ) for NZ membership of the International Maritime Rescue Federation	Secretariat	1,3	01,03,06
External Meetings	Hire of external meeting rooms and associated costs	Secretariat		

<p>NZSAR Council Goals</p> <ol style="list-style-type: none"> 1. A robust and integrated SAR system 2. Efficient and sustainable SAR organisations 3. Capable SAR people 4. Reduced demand for SAR services 	<p>NZSAR Risks as at May 2017</p> <ol style="list-style-type: none"> 01 - SAR Information 02 - SAR Funding 03 - Cohesive SAR Training 04 - Volunteerism 05 – Nationally Significant SAR event 06 – Recreational Knowledge 07 - Health and Safety 08 - SAR Expectations 09 – SAR Technology 10 – SAR Demand
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NZSAR 9-2

July 2017

DRAFT

SAR LAND INCIDENT MANAGEMENT TEAM MANAGEMENT SUPPORT

1. SAR Land Incident Management Process Flow

The *Incident Management Process Flow* (Appendix 1) identifies the processes and functions of the search management process, and the expected inputs and outputs from the management system. The criticality of each aspect of the system has been defined as:

M – Must have. This requirement is an essential element of the search management process.

S – Should have. While not essential, it is desirable that this feature exists.

C – Could have. This is a “nice to have” feature which would enhance the capability.

2. Management System Evaluation

A selection of IMT management systems were identified for evaluation. These were:

SARTrack

Incident Commander

Mission Manager

SAREye

Veoci

Two other systems were initially identified, but not evaluated:

Black Coral – information could not be publicly found

MissionMode – primarily focuses on personnel notification and management.

Each system was evaluated against the Incident Management System Flow, and their capability assessed as:

E – Exists currently in the application without further development.

C – Could meet the requirement by further development work offered by the developer.

N – Not possible to meet the requirement within current capability or without development funding.

3. Management System - Outcome

Based on the analysis and reporting undertaken, the system identified as best meeting the SAR IMT requirements is **SARTrack**.

The following comments relating to SARTrack are noted.

Strengths	Concerns
<ul style="list-style-type: none"> • Meets most of the SAR IMT criteria • Operates as a management tool • Utilises NZ SAR forms • Available as free download • In use in areas of NZ / LandSAR • Responsive to requests for modifications • User manual available • Bart Kindt owner / operator 	<ul style="list-style-type: none"> • Operates from a server in Germany • One-person operation • User training required • No designated training process • No support organisation • Currently responds to ad-hoc change requests

4. Further System Considerations

a. SARTrack

Standards	SARTrack	Comment
<p>Government Information Security classification for SARTrack should be IN-CONFIDENCE</p> <p>In Confidence — for all personal information provided by users through online sites or services. The Privacy Act requires agencies to take reasonable steps to protect that information from unauthorised disclosure or access.</p> <p>No strict requirement for system users to be accredited or security cleared</p>	<p>Access is via password login. Allocation of the Group login is controlled via a registration process.</p> <p>Registered Group users control password distribution and system access.</p>	<p>Refer Appendix 2 for an explanation of the SARTrack registration system.</p> <p>Access post-registration is controlled at the Group level.</p>
<p>SARTrack data should be encrypted when transmitted electronically such as across the internet</p>	<p>SARTrack has adopted a compliant encryption which is due for release mid to late July.</p>	<p>Confirmation of successful release required</p> <p>NZ data would be stored on the NZ server (once established) and not the German server.</p>
<p>Change control procedures should be put in place, and a standard window for changes agreed.</p>	<p>SARTrack has a feature that allows users to submit change requests directly.</p> <p>NZSAR will establish a</p>	<p>Agreement in principle to establish a change request process through NZSAR for:</p>

	change request process for NZ users to follow.	<ul style="list-style-type: none"> • Changes that can be implemented directly by SARTrack • Changes that require NZSAR approval, and then requested of SARTrack • Other changes by negotiation
It is recommended that a standard time window for any work on the system be agreed. An example of this could be Thursdays from 12pm to 2pm. Any changes and planned outages should be clearly communicated to NZSAR and approved prior to any work taking place.	System updates are released as required. User has the opportunity to control when updates are installed.	

b. Server

There are no objections from SARTrack Ltd to establishing an NZ server for NZ use. All arrangements for establishing a server would have to be undertaken by someone other than SARTrack Ltd. Software ownership would remain with SARTrack Ltd.

Standards	Comment
<p>All protection mechanisms available should be employed when storing SARTrack data electronically</p> <p>SARTrack data should be encrypted when stored electronically</p> <p>Electronic files should be protected against illicit internal use or intrusion by external parties through two or more of the following mechanisms:</p> <ul style="list-style-type: none"> • User challenge and authentication • Logging use at level of individual • Firewalls and intrusion detection systems and procedures • Server authentication • OS-specific/ application-specific security measures 	<p>All stored data will be encrypted following the July update.</p> <p>Full range of protection methods apply</p>
The SARTrack servers should be based in New Zealand to avoid legal issues with privacy and data sovereignty	There are no SARTrack obstacles to establishing a New Zealand server for NZ users
The minimum specifications for the SARTrack Virtual Machine are:	Subject to the server contract

<p>Number of CPU Cores - 2</p> <p>Memory - 8GB</p> <p>Hard Disk - 200GB</p> <p>Operating System Windows Server - 2016</p>	
<p>The cloud computing model used for SARTrack should be Infrastructure as a Service (IaaS)</p>	<p>Subject to the server contract</p>
<p>System stability is dependent on the server being correctly hardened and maintained</p> <ul style="list-style-type: none"> • Timely patching of application and operating system • Restricting the ability for users to install software • Disable or remove unwanted software features, operating system components and hardware services • Installation of anti-virus software and regular updates of virus databases • Software based firewalls preventing unwanted communication • Logging of system activities and the storage of these logs on a remote system 	<p>Subject to the server contract</p>
<p>The data centre hosting the SARTrack server should supply a minimum of Tier 2 availability. This will provide 99.741% uptime.</p>	<p>Subject to the server contract.</p>
<p>The organisation supporting the service should supply a 4 hour SLA for faults. Fault response and monitoring should be available 24x7x365</p> <p>A number should be available for NZSAR operators in the field to call for support 24x7</p> <p>As part of the support arrangement the servicing company should supply the following:</p> <ul style="list-style-type: none"> • Fault response (4-hour fix 24x7x365) • End user support with a number available for NZSAR operators to call 24x7 • Regular system maintenance of both the supporting operating system and SARTrack application • Monitoring of the system, with outages being reported to NZSAR (24/7 monitoring) 	<p>Subject to support service contract</p>

c. Training

Establish 'tiers' of trained users:

1. First tier: trained by Bart as SARTrack trainers with an understanding of how the system works and an ability to train others. Would be the 'go to' people for users with queries.

Envisage at least one person per District, who then becomes the asset to groups within that District.

1-2 days training required.

Funding would be required to deliver this.

Would train Operators

2. Second tier: Group level 'champion' – the person responsible at the Group level for the operation of SARTrack.
3. Third tier: Group operators – members of the group who can operate SARTrack during an operation or Exercise.

d. Future

1. Software, code and master software computer currently owned by SARTrack Ltd (Bart). Linked to family trust.
2. SARTrack is free to access and use – no intention to change this.
3. Bart would like to establish an agreement with NZSAR for the handover of SARTrack when this becomes appropriate. This would be along the lines of NZSAR owning the NZ version with the source code becoming "open source".

5. Next Steps

In-scope for NZSAR:

Server:

Establish supply and service agreements.

Agreements:

NZSAR – SARTrack Agreement

Training:

Ensure awareness of SARTrack is included in management courses

Out-of-scope for NZSAR:

Agreements:

Between individual agencies and SARTrack

Training:

SARTrack operational capability

Rhett Emery

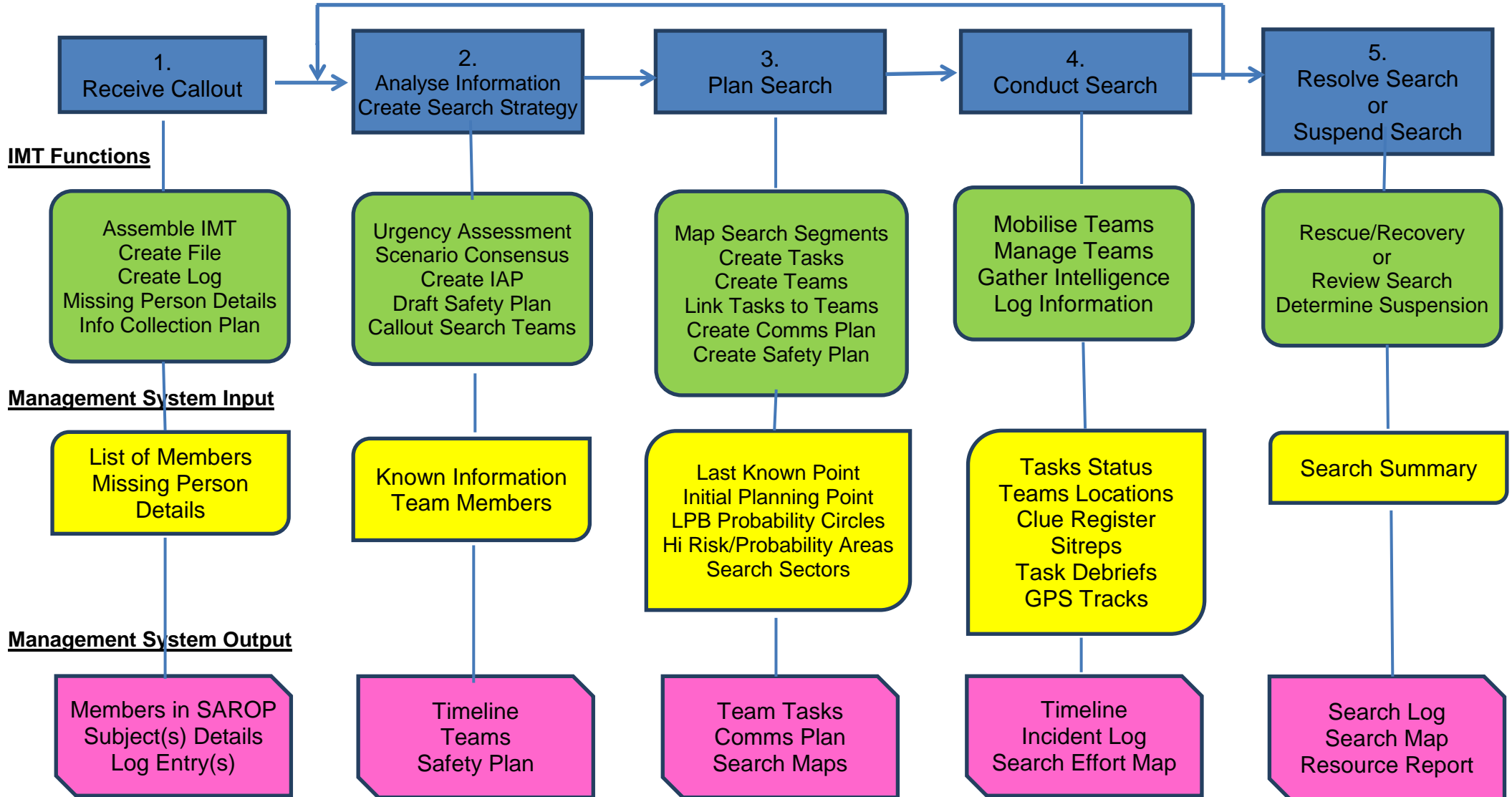
NSSP Coordinator

New Zealand Search and Rescue

Appendix 1

SAROP Incident Management Process

Process





NZSAR10-4

17 August 2017

Recreational Safety Partnership – Future Options

Purpose

1. This paper sets out to determine the validity of the Recreational Safety Partnership.

Background

2. The Recreational Safety Partnership (enclosed) was established in 2012 to adopt a partnership based collaborative approach to the quality, consistency and accessibility of recreational activity preventative messaging for both New Zealanders and visitors to New Zealand.

3. The premise being that Cross-environment coordination can strengthen the overall capability of the sector to provide messages to those recreating. SAR prevention is one of the NZSAR Council's four strategic goals.

4. The objective was to achieve collective results across key actors in SAR prevention: NZSAR, Water Safety New Zealand (WSNZ), Coastguard and the Mountain Safety Council (MSC). The partnership has been working with the varying degrees of financial support of ACC, NZSAR, and Maritime NZ.

5. Underpinning this objective was the concept that these agencies would act in partnership, meeting as required to share information, identify priorities, discuss planned initiatives, advertising, collaborative opportunities, collateral, funding and message consistency. They would use their affiliates and members located throughout NZ communities as direct marketing distribution channels and as sources of ideas and inspiration. Promotion activity centred on using direct marketing methods and supplemented by paid advertisements and unpaid advertorial articles.

6. The initiative presumed that people will typically undertake a wide range of recreational activities over time, especially during holiday periods.

Current Situation

7. NZSAR has facilitated meetings with the communications representatives from each partner agency on or about a six monthly basis. Each agency representative updates the partners on their prevention activities, discusses issues at hand, the group canvasses top of mind topics such as the NZ INC Prevention Framework and shares experience about best practice and effective tools, channels and measurement.

8. There are examples of more joined up relationships and ad hoc collaborative efforts arising from this process. However; while the value of meeting to update, share and learn cannot be underestimated, the question arises whether the partnership is effective in its goal of achieving collective and cohesive outcomes for prevention messaging. There is little evidence to suggest more active collaboration and cohesive messaging has resulted. Most is low-level, for example sharing each other's posts on Facebook, or sharing a stand at a trade show.

9. Deficient funding, capacity and resources within agencies precludes the ability of communication representatives to scale up collaborative initiatives. Connected to this is the lack of tangible 'buy-in' from most agencies' leadership.

10. The regrettable conclusion is that after 5 years, there has not been significant growth of active, systemic prevention related collaboration to justify the continued existence of the safety partnership in its present form.

Options

11. NZSAR remains genuinely committed to cross-environment coordination that can strengthen the overall capability of the sector to provide messages to those recreating. This is intrinsic in successful outcomes of its SAR Prevention Goal. There appears to be three options to progress (or otherwise) this commitment:

- a) The safety partnership remains largely as the status quo but with group-defined scaled-up tasks, accounted for annually by agency heads.
- b) The safety partnership is dissolved into the implementation of the NZ INC Recreational framework. Collaborative activity flowing from the Framework will be agreed by agency heads.
- c) Collaborative efforts are not formalised under any structure. Organisations and agencies find ad hoc ways to connect and collaborate.

Process

12. NZSAR seeks guidance from the Consultative Committee on the above options.

Rachel Roberts
Prevention Coordinator
NZSAR Secretariat

Enclosures:

- 1. NZSAR Council Prevention Goal
- 2. Recreational Safety Partnership - 2012

Enclosure 1

SAR Prevention

We seek an informed, responsible, adequately equipped and appropriately skilled public who are able to either avoid distress situations or survive them should they occur. A large number of organisations have a role to play with SAR prevention. Collectively, we will enhance personal responsibility through information, education, regulation, investigation and enforcement. We will collaborate with, inform, and contribute to partner organisations and when required, enable, coordinate or lead public focussed SAR preventative strategies and actions in order to reduce the number and/or the severity of SAR incidents within the NZSRR.

Enclosure 2



MOSR5-18

23 October 2012

Water Safety NZ
Coastguard NZ
Mountain Safety Council
New Zealand Search and Rescue

Information:

Accident Compensation Corporation
Maritime NZ

RECREATIONAL SAFETY PARTNERSHIP

Introduction

New Zealand Search and Rescue (NZSAR), Water Safety New Zealand (WSNZ), Coastguard NZ and the Mountain Safety Council (MSC) intend to form a collaborative partnership to promote consistent safety messages to the New Zealand public and for visitors to New Zealand.

Objective

The objective is to provide and promote good quality, consistent safety information to the largest possible number of people.

Outcome

The intended outcome is to reduce the numbers of people injuring themselves, killing themselves or requiring search and rescue services while they are undertaking recreational activities.

Operation

Agencies agree to act in partnership, meeting as required to share information, identify priorities, discuss planned initiatives, advertising, collaborative opportunities, collateral, funding and message consistency. The partners will endeavour to synchronise their activity and take a broad, encompassing approach to the provision of safety information to ensure opportunities to engage with the public are maximised.

By taking positive cooperative and collaborative action, we anticipate that duplication of effort will be reduced, and efficiencies for all partners gained.

Partnership Implementation

The four partnered organisations agree to collaboratively work towards the following:

- Actively collaborate, share information and opportunities to better inform the public about safety messages.
- “Give permission” for each partner agency to provide relevant safety information from the other partners when appropriate. Efficiencies can also be created by sharing the load or delegating responsibility for representation at shows, public events etc.
- Actively participate in the preparation and maintenance of a collective advertising calendar. This will be used by agencies to leverage off the activities and opportunities of others.
- Utilise and share their extensive range of existing contacts and stakeholders as collateral distribution channels.
- Let each other know what they are doing, and the opportunities they have to promote others safety material.
- Be proactive when appropriate; tell contacts, stakeholders about the other partners agreed safety information and messaging.
- Inform each other when involved in promotional activity be it articles, road-shows etc where cross promotion is possible.
- Inform the relevant partners of any opportunities to directly target or media opportunities related to another partners target audience.
- Developing other initiatives as agreed.

Patrick Holmes
Chief Executive Officer
Coastguard NZ

Matt Claridge
Chief Executive Officer
Water Safety New Zealand

Duncan Ferner
Secretariat Manager
NZSAR

Darryl Carpenter
Chief Executive Officer
Mountain Safety Council



New Zealand Search and Rescue Secretariat Project Brief

August 2017

Task or Project Name:

New Zealand's Search and Rescue Guidelines (Guidelines)

Objective:

Create and maintain an agreed, unified and documented *doctrinal* base for the conduct and operation of Search and Rescue in New Zealand

Situation:

Existing SAR doctrine, procedures and processes currently exist in a range of documents; there is no standard reference document or repository that acts as a single reference point.

The NZSAR Council has approved the creation of an agreed, unified and documented doctrinal base for the conduct of Search and Rescue in New Zealand (Council meeting 21 September 2016) – *New Zealand's Search and Rescue Guidelines*.

End state. What does completion / Success look like?

- Single reference point for SAR operational policy, procedure and practice
- Multi-agency endorsed agreed set of overarching documents for SAR operations in NZ
- Based on existing SAR documents/references
- Consistent with Operational Framework for the NZSRR
- Consistent with, sympathetic to and aligned with CIMS and IAMSAR processes and procedures
- Provides references as appropriate to existing SAR operational documents
- Provides relevant information where this is not provided in other documents.
- Aligns SAR doctrine / process / procedures and SAR Training material
- Specifies maintenance process / programme and arrangements.

Key activities:

Identification and appointment of Project Manager and Project Writer

Research and collation of all existing documentation

Gap analysis, including endorsement of existing doctrine / process / procedures

Production of material to fill gaps

Formation of *single reference point*

Process for maintenance of *single reference point*

Risks to successful task or project completion:

- Lack of agreement from key agencies
- Excessive detail, particularly at an operational level
- Excessive time

- Training does not align
- Scope creep

Contract Manager: Rhett Emery

Stakeholders:

Core: Police, RCCNZ, Coastguard, LandSAR, SLSNZ, NZSAR Council, Aviation Sector, NZDF, Antarctica NZ

External resources required:

- Project Manager
- Project Steering Group
- SME Technical Advisors
- Project Writer

Documents of relevance:

Operational Framework for the NZSRR

The Coordinated Incident Management System (CIMS) 2nd Ed

IAMSAR Manual

SAR Core Curriculum (2009)

SAR Documentation Study (2010)

Australian National SAR Manual

US Land Manual

SAR Training course materials

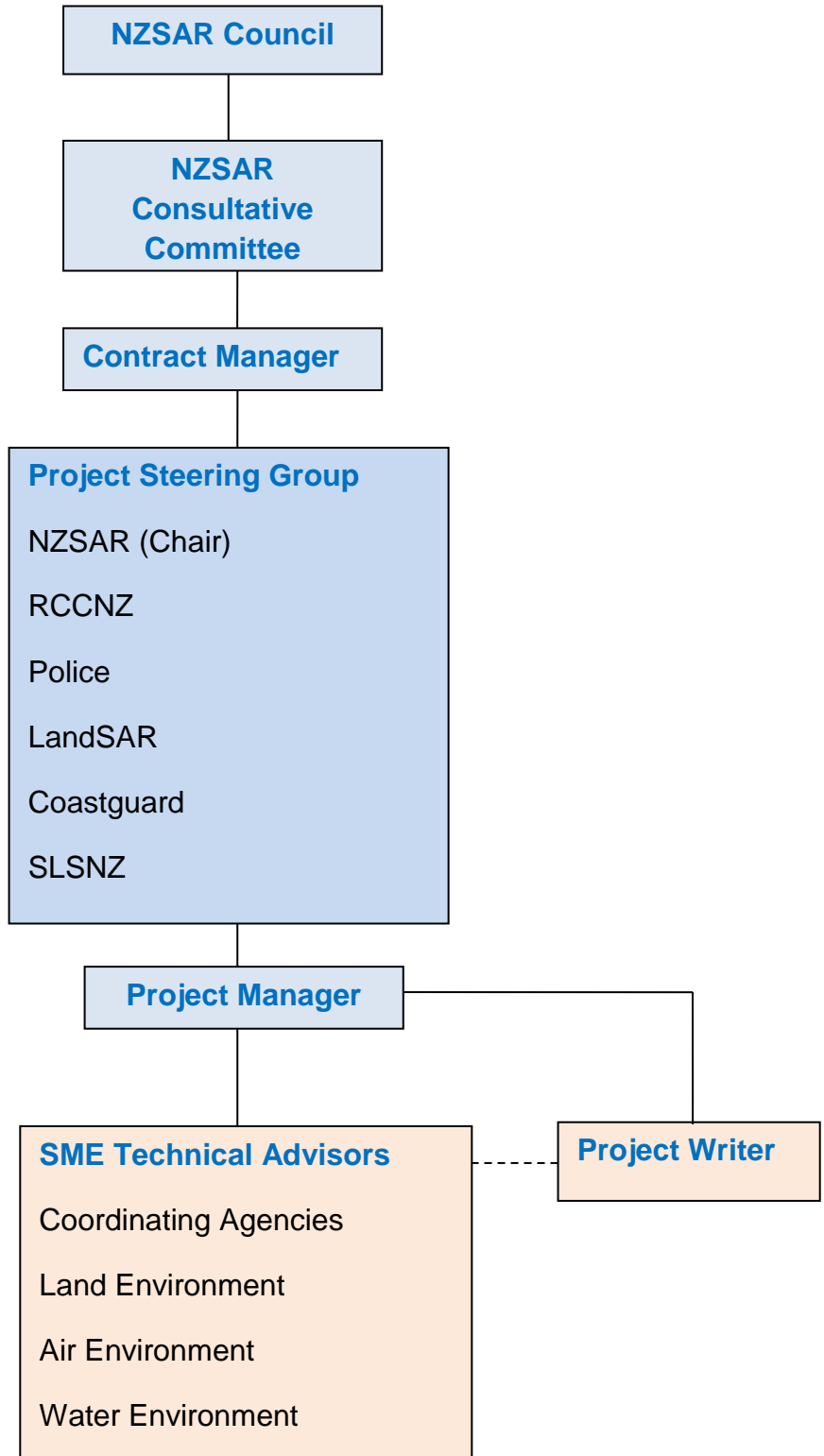
LandSAR documents

Coastguard documents

SLSNZ documents

SAR Chapter Police Manual

SAR Plans of Operation – SAR readiness plans /SOPs/ aides-memoire



Roles and responsibilities

Project Steering and Assurance Group

- Establish the format of the Guidelines and principles for inclusion and exclusion
- Endorse material content as accurate
- Endorse material as appropriate for SAR sector
- Provide feedback as required
- Ensure Guidelines provide the appropriate *depth* and *breadth* of coverage

Project Manager:

- Collate existing materials
- Resource SME groups
- Organise and Convene SME groups
- Convene Project Steering Group as required
- Oversee and coordinate Project Writer
- Provide liaison between Writer and SME groups
- Prepare materials for Steering Group to obtain approval
- Provide updates to Contract Manager
- Monitor timelines
- Ensure breadth and depth of coverage
- Ensure SME and Steering Group engagement as required

Project Writer

- Organise the format of the Guidelines
- Format material for inclusion from existing materials as advised by SME groups
- Draft new materials as required, using SME guidance
- Ensure material is cohesive and logical in format and style
- Produce Proof Guidelines
- Produce Final of Guidelines

SME Technical Advisors

- Provide subject-specific advice and guidance
- Ensure material content is accurate and complies with relevant authorities and legislation

Project Phases

Phase	Involved	Outcomes	Timeframe
1 Initiation	Steering Group Project Mgr	Establish framework for the Guidelines: <ul style="list-style-type: none"> • Format of the <i>single reference point</i> • Principles for inclusion / exclusion • Boundaries and parameters Confirm decision making and approvals process	Sep - Oct 2017
2 Groundwork	Project Mgr	<ul style="list-style-type: none"> • Research and collate all relevant existing SAR operational documentation of doctrine, procedures and processes • Sort / group material and cross reference each document to SME Groups • Collate an overview / summary of all relevant document for each SME group • Convene SME groups 	Oct – Feb 2018
3 Analysis	Project Manager Project Writer SME groups	Manage each SME group meeting to: <ul style="list-style-type: none"> • Select existing material that is appropriate for inclusion within the Guidelines • Select existing material for reference from within the Guidelines • Identify any gaps / overlaps between the existing material and Guidelines requirements 	Feb – Apr 2018
4 Draft new material	Project Mgr Project Writer SME groups	<ul style="list-style-type: none"> • Draft new Guidelines material required to fill the gaps identified in Phase 3 • Review draft material with SME groups • Format existing and new materials into Guidelines • Finalise drafts for Steering Grp 	Apr – Oct 2018
5 Review of material	Project Mgr Steering Group	<ul style="list-style-type: none"> • Present material to Steering Grp in batches for approval to proceed 	Jul – Nov 2018
6 Finalisation of Draft	Project Mgr Project Writer SME groups	<ul style="list-style-type: none"> • Produce proof versions of Guidelines for SME review • Undertake SME final review • Make necessary changes, and obtain SME advice as required • Finalise proof for Steering Group • Establish review and maintenance process 	Oct – Jan 2019
7 Steering Group	Project Mgr Steering Group	<ul style="list-style-type: none"> • Obtain Steering Group endorsement of Guidelines 	Feb – Mar 2019
8 Finalisation	Project Manager Project Writer	<ul style="list-style-type: none"> • Produce finalised draft version 	Mar – May 2019
9 Consultative Committee	Contract Mgr Project mgr	<ul style="list-style-type: none"> • Submit for Consultative Committee approval 	May 2019
NZSAR Council	Contract Mgr	<ul style="list-style-type: none"> • Submit for Council approval 	May 2019

As at 15 July 2017

District	Type	Area	Contact	Date	Agencies involved (Police are the lead agency)	NZSAR Funding	HF	RNZAF
	Marine	Taupo	Barry Shepherd	14 Oct 2017	Police, Coastguard, Harbourmaster			
	Land	Tauranga/Western BoP	Craig Madden	6-8 April 2018				
	Marine	Tauranga/Western BoP	Craig Madden	TBC				
	Land/Marine	Eastern BOP	Ross Macrae	9-11 March 2018	Police, LandSAR, Coastguard	\$7.5K		
Eastern	Land	Hawkes Bay	Marty James	4-5 November 2017	Police, LandSAR	\$4K		Y
	Land	Wairoa	Maui Aben	October 2017	Police, LandSAR, Te Uru Taumatua	\$3.5K		Y
	Land	Gisborne	Maui Aben	23-25 Mar 2018		TBC		
	Marine	Hawkes Bay	Marty James	1 October 2017				
Central	Land	Taranaki	Thomas McIntyre	11-12 Nov	Police, LandSAR	\$1k (TBC)		
	Marine	Taranaki	Thomas McIntyre	March 2018		\$1k (TBC)		
	Marine	Wanganui	Colin Wright	11 Mar 2018		\$1k (TBC)		
	Land	Wanganui	Colin Wright	24/25 Feb 2018		\$1k (TBC)		
	Land	Manawatu	Andy Brooke	3-4 March 2018		\$1k (TBC)		
	Marine	Manawatu	Andy Brooke	TBC				

As at 15 July 2017

District	Type	Area	Contact	Date	Agencies involved (Police are the lead agency)	NZSAR Funding	HF	RNZAF
Wellington	Land	Wairarapa	Ants Harmer	Feb 2018	Police, LandSAR	\$3.5K		
	Land	Marine	Dave Houston	April 2018	Police, CPMRA,	\$4K		
Tasman	Marine	Nelson Bays	Steve Savage	TBC	Police, Coastguard			
	Land	Tasman District	Matt Tailby	10-11 Mar 2018	Police, LandSAR	\$7.5K		
Canterbury	Marine	Christchurch & Timaru	Phil Simmonds	August 2017	Police, Coastguard	\$1K		
	Land	Christchurch	Phil Simmonds	October 2017	Harris Cup - Police, LandSAR, AREC			
	Land	Christchurch	Phil Simmonds	March 2018	Police, LandSAR	\$6.5K		
Southern	Land (District)	Dunedin	Brian Benn & Nathan White	18 Nov 2017	Police, LandSAR	\$7.5K		
	Land - Tautuku Cup	Catlins	Brian Benn	May 20-21 2018	Police, LandSAR			
	Marine		Brian Benn	TBC	Police, Coastguard			
National	Police Nat SAR	Dip Flat (Blenheim)	Jo Holden	May 2018				

As at 15 July 2017

RNZAF Support - Confirmed

Area	Contact	Date	Agencies

NZSAR

New Zealand Search
and Rescue



NZSAR Consultative Committee Meeting

23 August 2017



1. Welcome

- Stephen Ross – NZSAR
- Ian Duncan – FENZ
- Georgia Gerraty – RCCNZ
- Jerome Cvitanovich – NZSAR Comms Advisor

2. Apologies

- Patrick Holmes – Coastguard NZ
- John Nicholson – Aviation NZ

Please fill out the attendance register

3. Minutes

Minutes of the meeting 10 May 2017 to be approved



4. Matters Arising

Item 7

Risk Matrix. The Committee endorses the addition of a 'SAR Demand' risk to the NZSAR Council's risk matrix.

Secretariat

Complete

Item 12

Training SAR(ACE). The Secretariat will arrange a meeting to discuss future SAR training options.

Secretariat

Verbal Update

5. SLA Monitoring Report

Outputs	Coastguard	LandSAR	AREC	SLSNZ
Provision of expert services to CA				
Provision of expert advice to CA				
Provision of IM Team Members				
Summary of non-SAR activity				
Up to date details available for CA				
Participation in joint SAREX				
Attendance at Forums				
Nominations for NZSAR Awards				



5. SLA Monitoring Report

Summary for the 1 April – 30 June 2017 Quarter, as extracted from the SAR Data Store.

Measures	Police	RCCNZ	Totals
SAROPs	321	210	531
Lives Saved	30	7	37
People Rescued	89	54	143
People Assisted	142	30	172
LandSAR Taskings	89	6	95
Coastguard Taskings	45	1	46
SLSNZ Taskings	18	0	18
AREC Taskings	14	1	15
Performance of SLA Partners	Satisfactory	Satisfactory	Satisfactory



5. SLA Monitoring Report

Summary for the 1 April – 30 June 2017 Quarter

Reporting requirements for the Quarter have been met by all the SLA partners

Outputs	Coastguard	LandSAR	AREC	SLSNZ	Totals
SAROPs Attended	90	132	3	12	--
Volunteers Involved	531	1,094	8	46	1,679
Volunteer Hours	2,397	7,100	61	189	9,747

2,084 Coastguard volunteers responded to **473** non-SAR related calls for assistance during the quarter.



5. SLA Monitoring Report

Coastguard

- Coastguard West Coast launched their new rescue vessel “Ivan Tally Rescue” on 10 June. The vessel was previously in service in Auckland as LION Rescue and has been redeployed to the South Island. There was great support from other SAR agencies.
- Henry van Tuel attended the ANZSAR Conference in the Gold Coast and delivered a key note speech on SAR training.



5. SLA Monitoring Report

LandSAR

Key initiatives advanced during the reporting period include:

- The completion and audit of the annual accounts for the LandSAR financial year ended 31 March 2017
- The production of the LandSAR 2016/17 Annual Report
- The 23rd LandSAR AGM held on 10 June 2017 in Wellington
- Continuing development and refinement of the LandSAR Safety Management System
- Induction workshops to accredit more LandSAR Competency Assessors. To date 109 assessors have been accredited and 1,264 competencies awarded.
- Negotiating a MoU with WanderSearch NZ Charitable Trust, and working with a new supplier of WanderSearch pendants to automate manufacturing.



5. SLA Monitoring Report

SLSNZ

- Work is continuing on the various communications networks, and replacing old VHF sets.
- During the winter months the clubs emergency after hours call out squads (ECOS) step up their training along with the training of most of the new IRB crews .
- The Emsisoft Rip Mapping Research and Report has been completed.
- SLSNZ is well into the first phase of the Rescue Water Craft (Jet Ski) national rollout focused on mainly training this coming off season with some units becoming operational once a required standard has been reached.
- SLSNZ is working closely with MNZ to clarify the operational expectations of both parties for general and response activities while using patrol and rescue craft in New Zealand coastal waters.



5. SLA Monitoring Report

AREC

- Have no issues or updates for the quarter

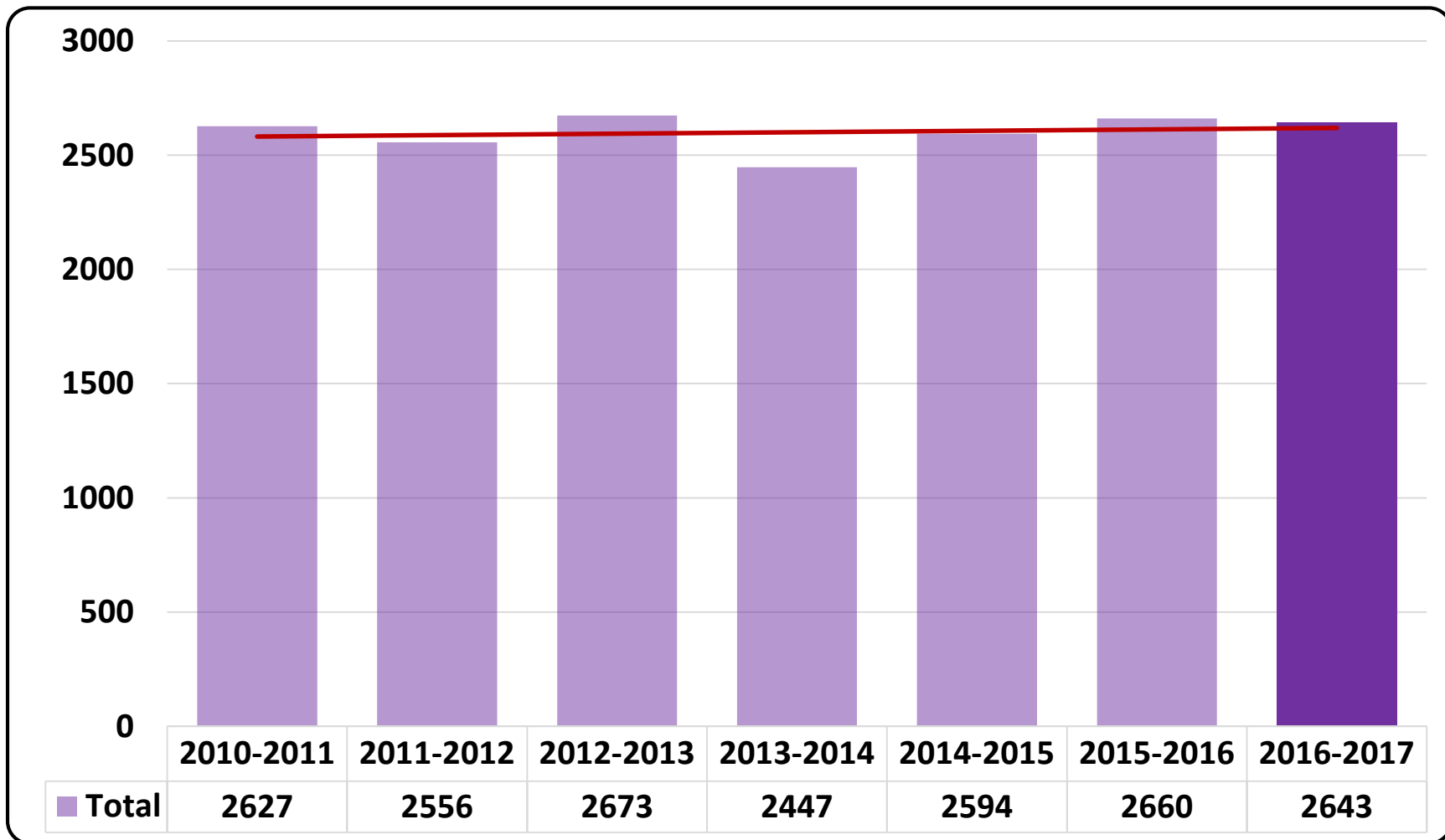
MSC – Avalanche Advisory

Mountain Safety Council has supplied the monthly reports for June and July 2017.

- 35 avalanche advisories posted in June
- 3 avalanche advisories posted in July
- MSC hosted the Mountain Weather and Decision Tools Applied to Avalanche Forecasting seminar in Christchurch on 16 June 2017.
- MSC hosted the Southern Hemisphere Alpine Conference (SHAC) from 17-18 June in Christchurch. This was a two-day conference dedicated to Alpine safety, which all NZAA forecasters attended.
- There were three reported avalanche incidents in July, all in out of bounds areas of ski fields.



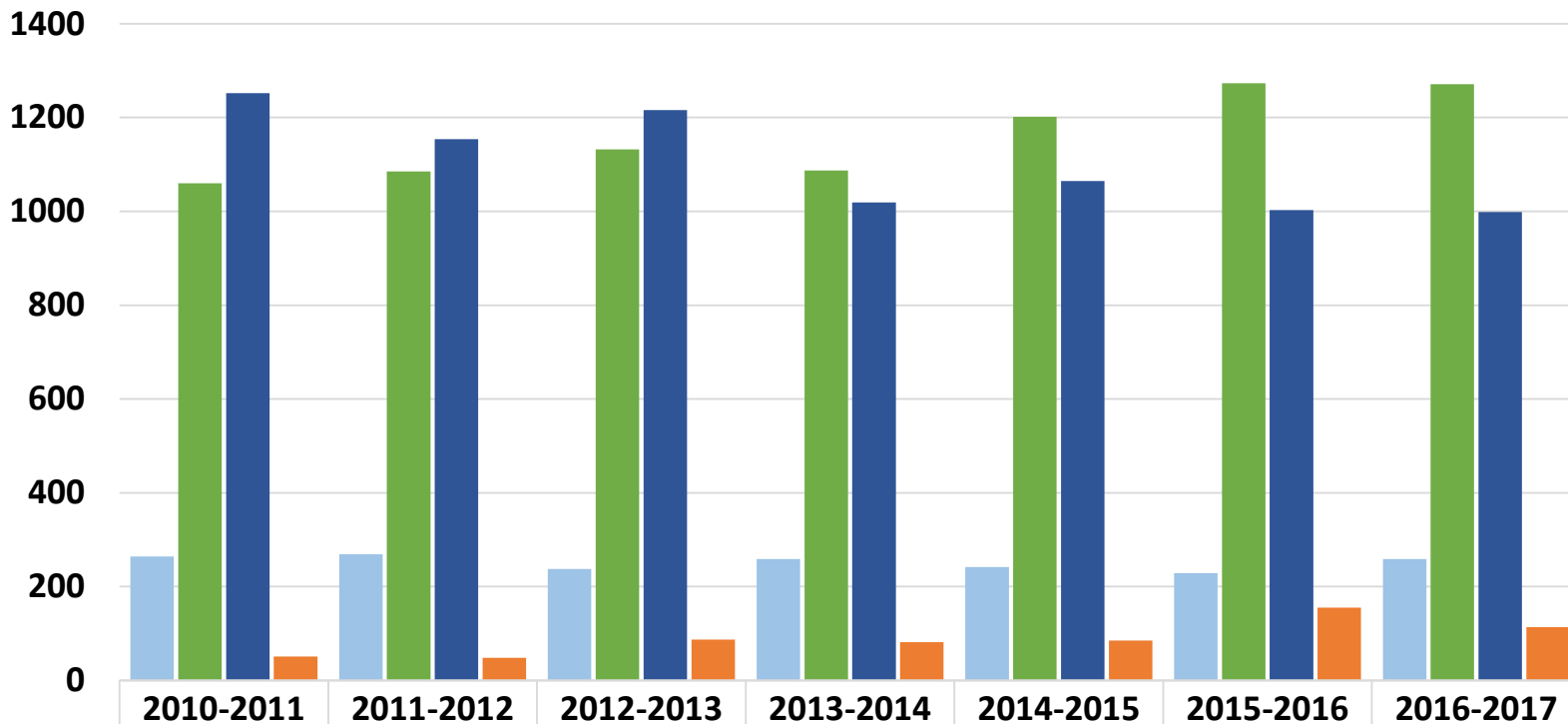
6. SAR Activity Report 2016/17



Total SAR Incidents over last 7 years – flat trend line



6. SAR Activity Report 2016/17

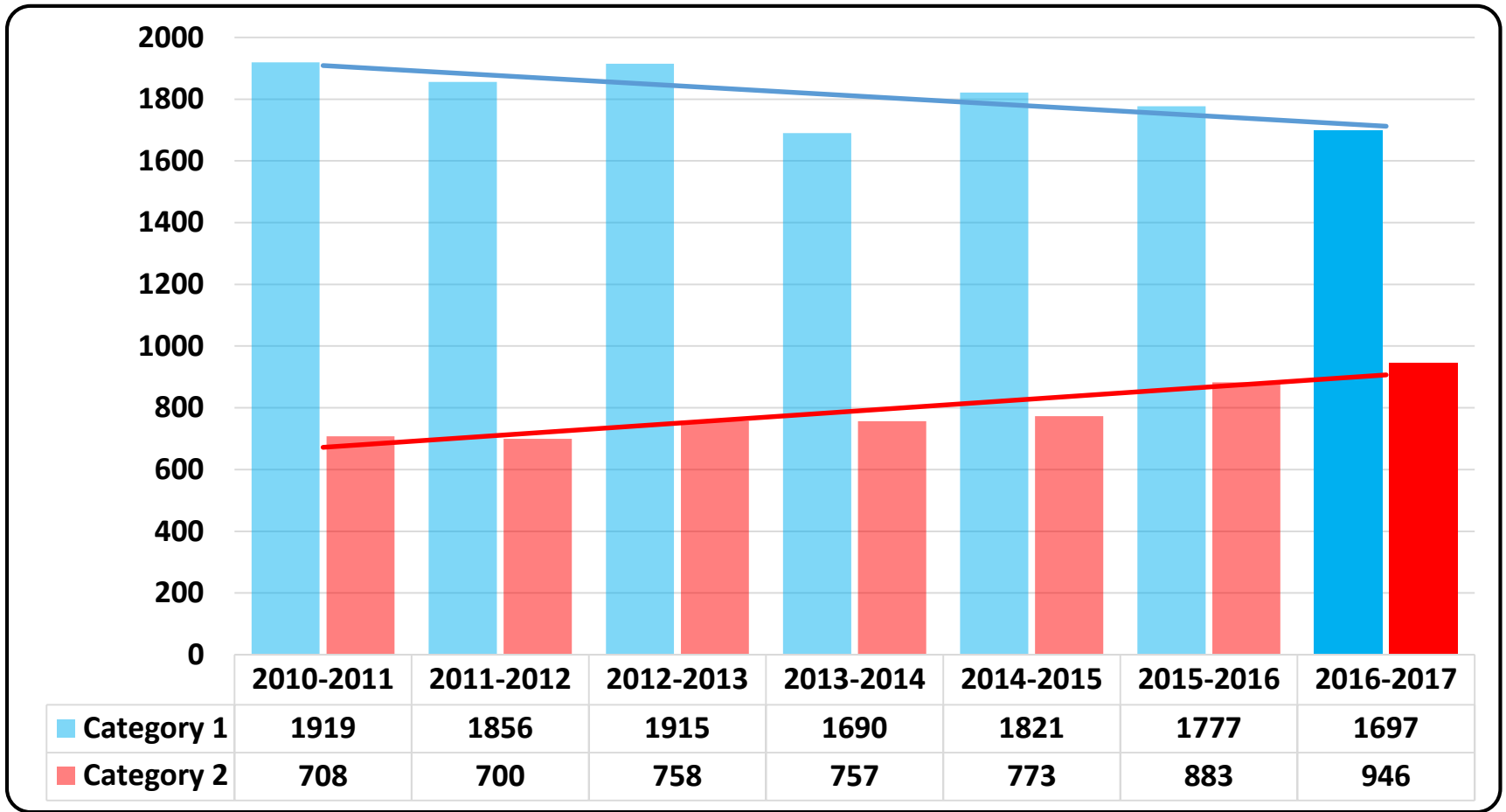


	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017
Air	264	269	238	259	242	229	259
Land	1060	1085	1132	1087	1202	1273	1271
Marine	1252	1154	1216	1019	1065	1003	999
Undetermined	51	48	87	82	85	155	114

SAR incidents by environment – 2016/17 almost identical to previous year



6. SAR Activity Report 2016/17



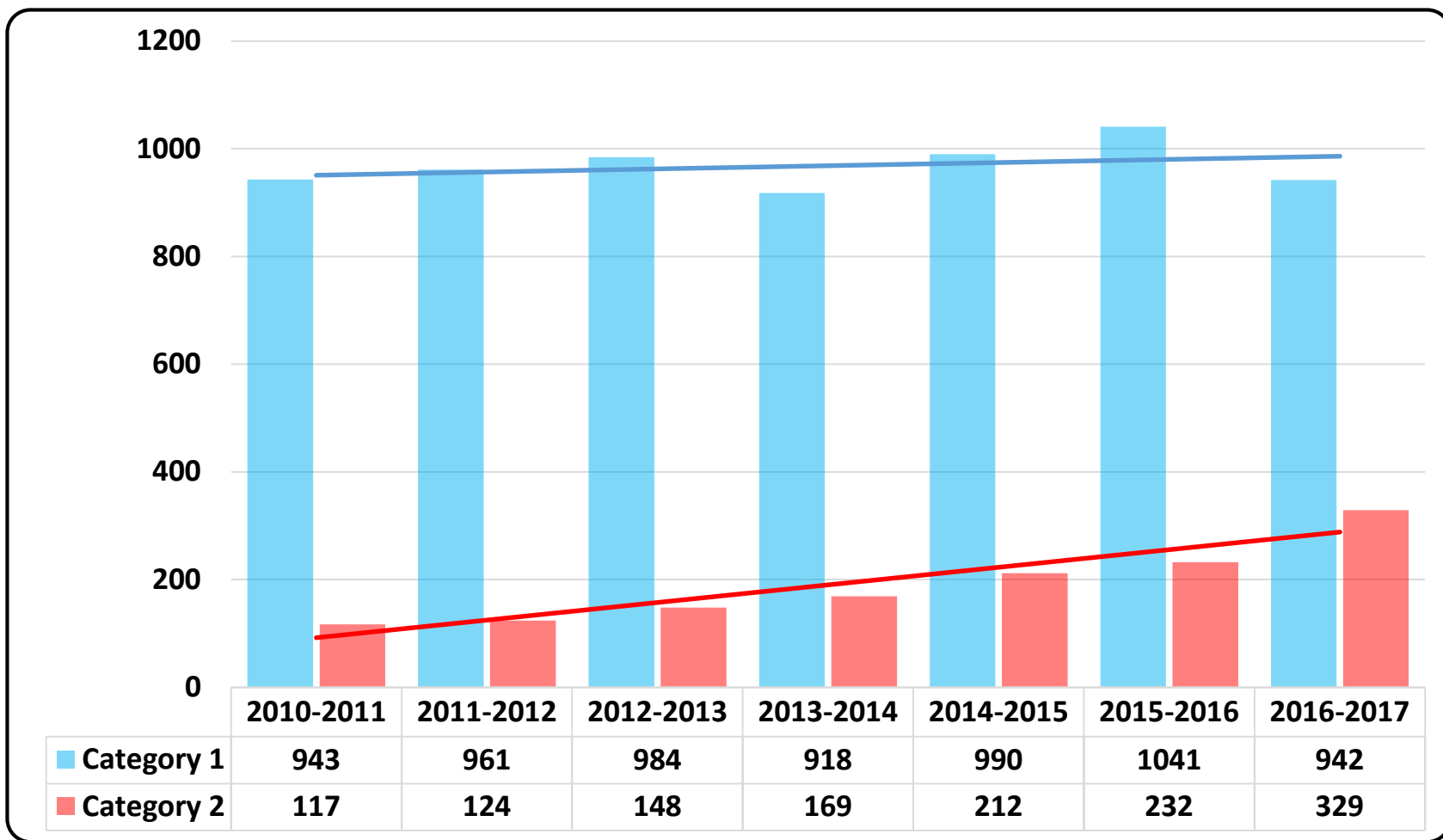
SAR incidents by category – previously identified trend continues

7% increase in Cat 2 incidents last year

In 2010/11, 26.5% of incidents were Cat 2. In 2016/17, it was 35.7%



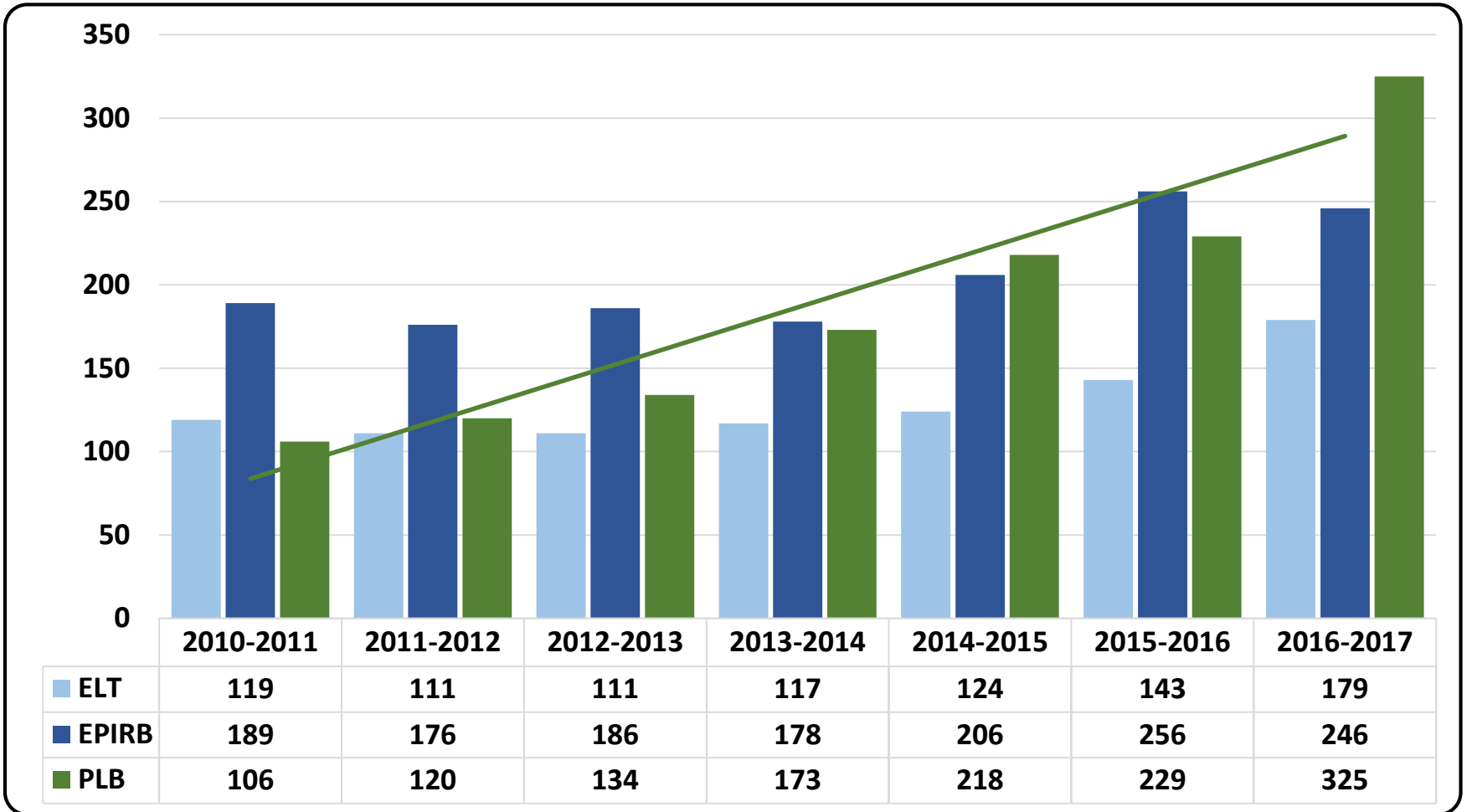
6. SAR Activity Report 2016/17



SAR incidents by category – land environment.
 42% increase in Cat 2 land incidents last year.



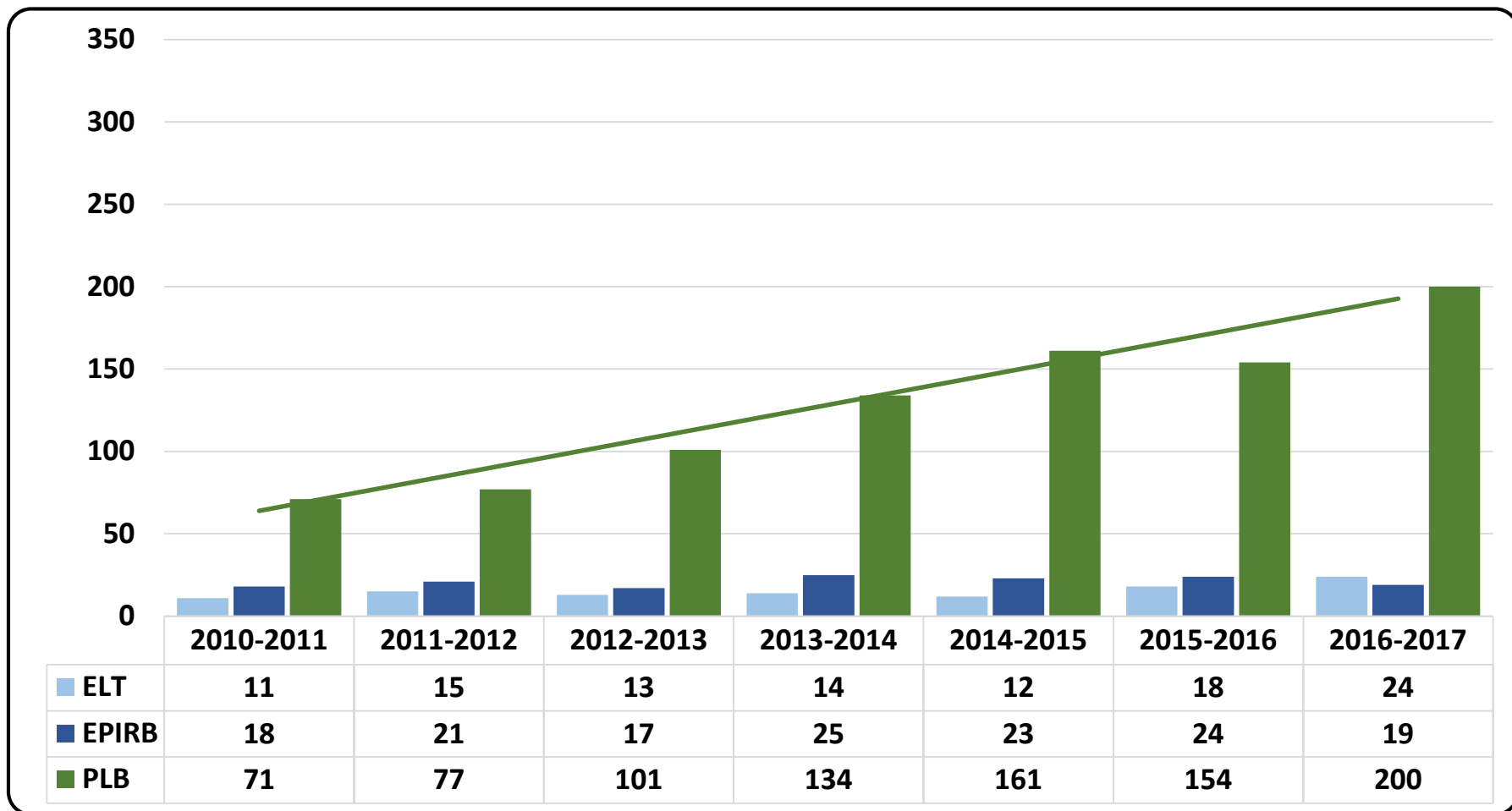
6. SAR Activity Report 2016/17



Distress Beacon alerts – trend line shows increase in PLB alerts.
Coincidence? 42% increase in PLB alerts last year...



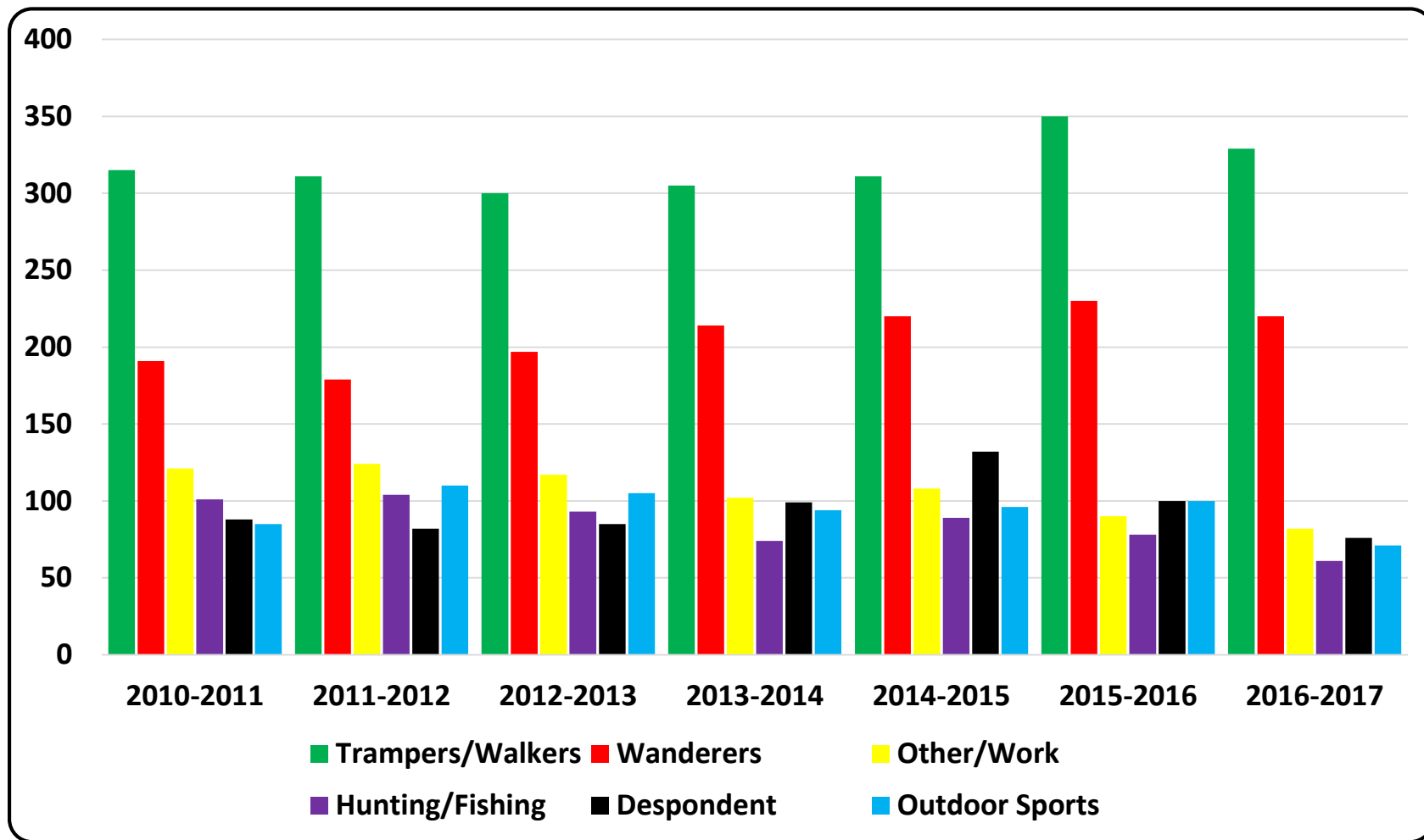
6. SAR Activity Report 2016/17



Real PLB alerts – 23% increase in these last year....



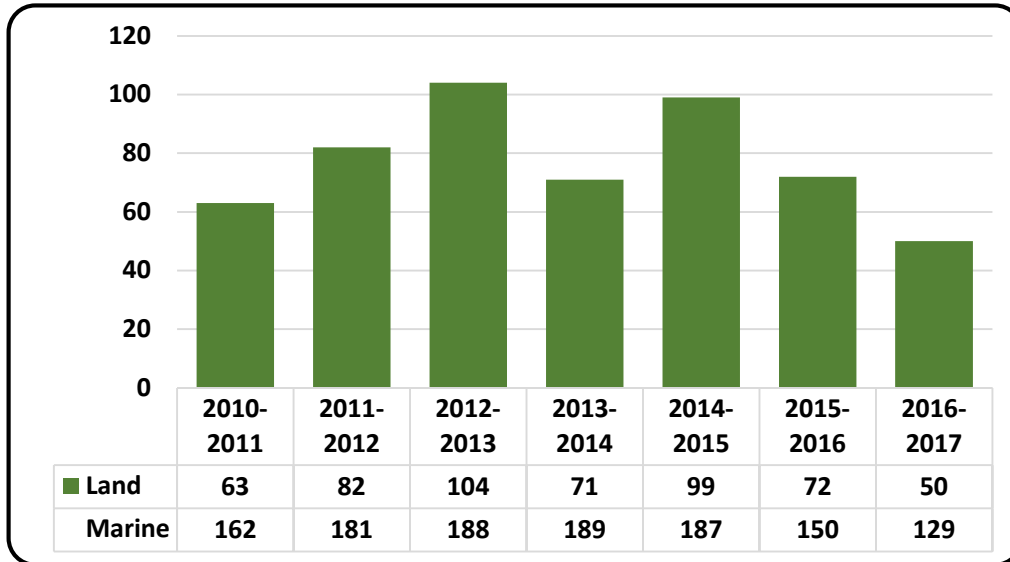
6. SAR Activity Report 2016/17



Cat 1 land incidents – subject behaviour categories. Dip in trampers/walkers



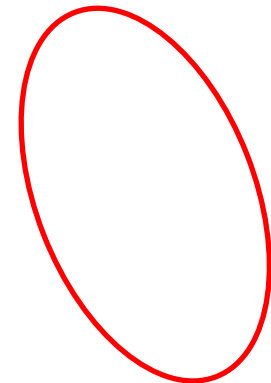
6. SAR Activity Report 2016/17



Comparison of cat 1 land incidents in Wellington Police District to weather.

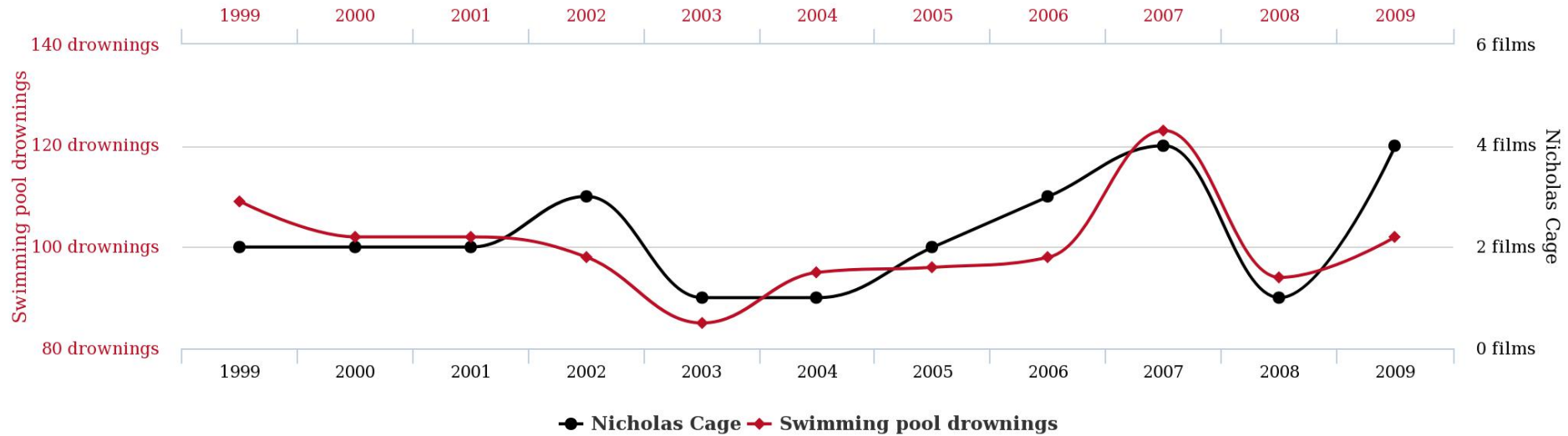
Different scales, but the same shape to the graphs for the last seven years...

Is climate change changing SAR demand?



Future Reporting...

Number of people who drowned by falling into a pool
correlates with
Films Nicolas Cage appeared in



tylervigen.com

What would Committee members like to see included in quarterly reports?
Graphs? Maps? Comparisons?



7. Sector Update



Paper distributed

8. NZSAR Risk Matrix

Risk Level (reviewed)	Risk Treatment(s) – SAR INFORMATION	Post Treatment (Effective from...)
(May 14)	<p>Risk treatment 2017/01/A: SAR Data Standard In consultation with operational SAR agencies, develop and document an agreed SAR data standard for collection, collation and analysis.</p>	2017
(May 14)	<p>Risk treatment 2017/01/B: Data exchange and storage Establish and maintain a single repository for all SAR data.</p>	2018 (Project SARdonyx)
(May 14)	<p>Risk treatment 2017/01/C: Data analysis Analyse SAR data to identify trends and patterns in SAR events. Such analyses should be used in conjunction with other data to show broader trends and patterns. The resultant products will be made available to decision makers and stakeholders.</p>	2018
(May 14)	<p>Risk treatment 2017/01/D: SAR Operational Analysis Conduct an operational analysis of SAR need mapped to SAR resources. Assist SAR providing agencies to reshape their organisations to match proven SAR need.</p>	2018/19



8. NZSAR Risk Matrix

Risk Level (Reviewed)	Risk Treatment(s) RECREATIONAL KNOWLEDGE	Post Treatment (Effective from...)
(May 14)	<p>Risk treatment 2017/06/A: Ensure the public has access to good quality, consistent safety advice. Maintain the NZSAR Adventure Smart website (http://adventuresmart.org.nz/) and support the promulgation of consistent sector messaging.</p>	Ongoing
(May 14)	<p>Treatment option 2017/06/B: Recreational safety - provision of consistent information to the media. Support the relevant agencies to provide timely information to the media on personal responsibilities and better preparation when undertaking outdoor recreational activities.</p>	2018
(May 14)	<p>Treatment option 2017/06/C: Support domestic safety organisations. Support the SAR prevention efforts of domestic safety information providing agencies. Encourage and harmonise collaborative action.</p>	2018
(Nov 15)	<p>Treatment option 2017/06/D: Implement the NZ Inc Recreational Safety Strategy.</p>	2018



9. Water Safety Sector Capability Review

NZSAR Consultative Committee update

Aug 2017

Background

- Key outcome of Water Safety Sector Strategy 2020 – a step change required
- Why a Capability Review? – the rationale
- Capability Definition
- The project scope and approach

Capability Working Group

- Role - provide expert advice and a 'reality check' to WSNZ project manager

- Membership:

Paul Dalton, SLSNZ

Duncan Ferner, NZSAR

Jonty Mills WSNZ

Neil McInnes, WSNZ

Patrick Holmes, Coastguard NZ

Davin Bray, WAI

Mark Lindsay, WSNZ

- Meets with Project Owners (4 sector chairs) at key points in process

The 5 phases

1. Project plan and set up (*Nov 2016*)
2. Environmental scan – what's coming at us (*mid Aug*)
3. Sector stocktake – current state (*end Sept*)
4. Sector Capability Plan (*Oct 2017*)
5. Plan implementation

Where are we now?

- Sector outcome set signed off
 - for sector strategic planning
- Outcomes-based definition of capability
 - agreed with Project Owners (being used in sector stocktake)
- Sector stocktake
 - process underway with contractor
- Environmental scan
 - work in progress

Next steps.....

- Complete drafts of environmental scan and sector stocktake reports (for Project Owners meeting mid Sept)
- Working Group - 19 September
 - to review capability plan
- CSRG – 28 September
 - to review capability plan proposals
- Project owners – mid Oct
 - to sign off capability plan

Questions?

10. Learnings – Exercise RAUORA II

Issue Raised by NZSAR	Action/Responsibility
<p>Issue #1: <i>The development of a single plan for nationally significant SAR operations (Mass Rescue / Extensive Search) remains an urgent requirement.</i></p>	<p>NZSAR to provide definitive plan development milestones to HRB (Paper due September 2017)</p>
<p>Issue #2: <i>Incompatible organisational IT systems is a major impediment to gaining and maintaining situational awareness.</i></p>	<p>FENZ developing a non – operational COP interagency platform. We – need to make more/better use of liaison officers. IMRG/Mike Hill lead</p>



10. Learnings – Exercise RAUORA II

Issue Raised by NZSAR	Action/Responsibility
<p>Issue #3: <i>Many people in response organisations at the District level possess an inadequate understanding of CIMS (particularly at the multi-agency/multi-response level).</i></p>	<p>National Security System Training Development Group working on CIMS training, unit standards and expectations on agencies.</p>
<p>Issue #4: <i>No common system or process for the reconciliation of large numbers of distressed / missing people exists.</i></p>	<p>Police and MCDEM are jointly leading a project for the inquiry sub-function of ‘Welfare’. NZSAR to provide them with reconciliation requirements for MRO incidents (post joint discussions)</p>



11. 2017/18 NSSP

Workshops & Seminars	SAR Training
• Aviation Workshop	• SAR(ACE) Training Survey
• SAR Case Study Seminar / Police Planning	• Evaluation Training
• SAR Technology	• START material
• Safer Walking	Prevention
SAR Information and IT	• AdventureSmart Communications
• NZSAR Website update	• Recreational Safety Partnership
• Data Store	• Visitor Intentions
• SAR Information System (SARdonyx)	• Safety Codes, printing and advertising
• SAR (land) IMT IT	SAR Research
• Portable Mobile Phone Location	• Fatality Analysis
• Update NZSAR Resources database	• SAR Communications – Land (STWG(L))
SAR Documentation	• Survey of SAR Customers
• SAR Forms and Guidelines	• SAR Demand and Supply Study – Marine
• Develop New Zealand's SAR Guidelines	• SAR Demand and Supply study – Land
Exercises	• Mass Rescue Study
• Support Police SAREXs	• SAR Aviation Engagement Framework
• MRO SAREXs	• SAR Assurance
• Practical MRO SAREX	
• Drifters / Trackers	

11. NSSP 2017 / 18

Significant NZSAR Initiatives 2017 - 2020	2017				2018				2019			
Establish new SAR Information System (SARdonyx)	█	█	█	█	█	█	█	█				
Establish SAR Sector Performance, Verification and Reporting					█	█	█	█	█	█		
Portable Mobile Phone Location Project					█	█	█	█				
SAR Communications – STWG(L)			█	█	█	█	█	█	█	█	█	█
Survey SAR Customers			█	█	█	█	█	█				
Develop New Zealand's SAR Guidelines			█	█	█	█	█	█	█	█	█	
Implement Aviation Framework Recommendations			█	█	█	█	█	█	█	█	█	█
Implement Recreational Safety Framework Recommendations				█	█	█	█	█	█	█	█	█



11a. SARdonyx

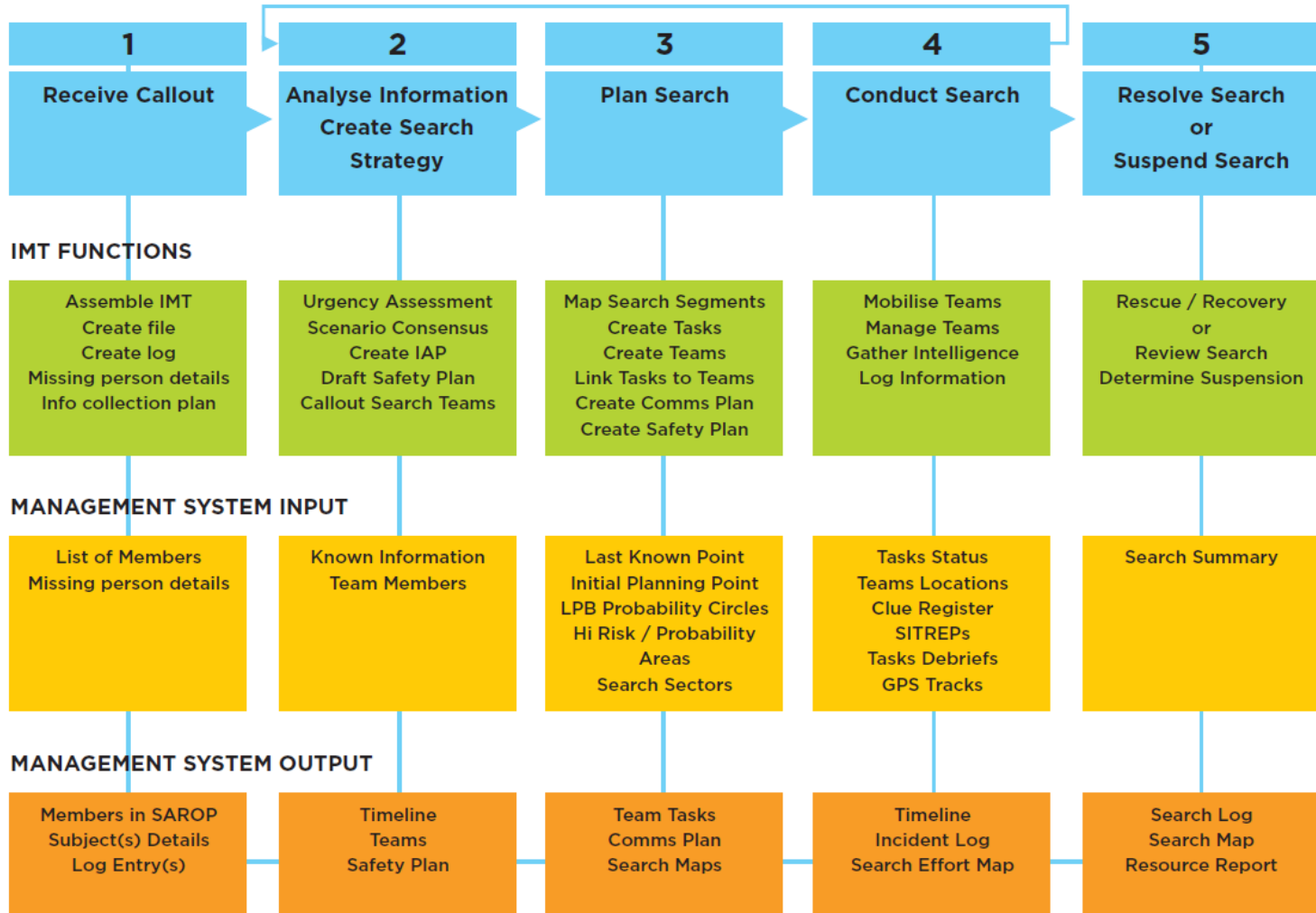
Replace our existing single agency data store(s) with a multi-agency solution that will deliver a new data collection and business intelligence (BI) solution for NZ's SAR sector .

- NZSAR/Police/RCCNZ/LSAR +[all SAR orgs]
- ROI Short listing – tomorrow
- RFP 20 Sep – 1 Nov
- RFP evaluation – 9 Nov
- Development – TBC expect 4 to 6 months
- Fine tune / revise - Completion + 9 months



11b. SAR (Land) IMT IT

PROCESS



11b. SAR (Land) IMT IT

- SARTrack confirmed as the IT system that best meets the Land IMT Process requirements
- NZSAR to:
 - establish NZ based Server
 - formalise a joint agreement with SARTrack
- SAR Agencies responsible for:
 - usage
 - people / training of people
 - computers / downloads etc

11c. Research

- Mass Rescue Study
 - A look at NZ MRO Policies, plans, resources, skills & equipment. Aim to de risk MRO
 - Large(ish) MRO related exercise 2018
- SAR Customers Survey



11d. Workshops/Seminars

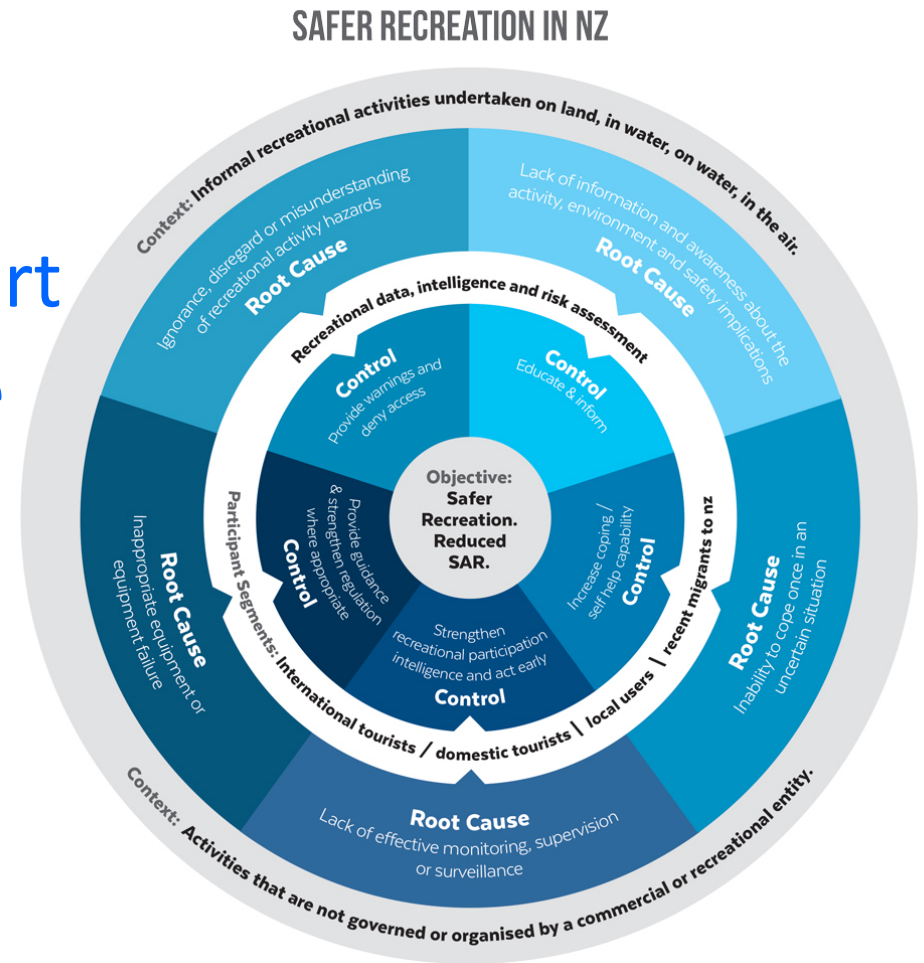
- SAR Technology Seminar – Mar 2018
- Aviation Workshop – deferred
- Case Study Workshop – Apr 2018
- Safer Walking / Wander Workshop – Dec 2017



"And should there be a sudden loss of consciousness during this meeting, oxygen masks will drop from the ceiling."

11e. SAR Prevention

- Recreational Safety Partnership – future options
- Prevention Annual Report
- EOTC Teaching Resource
- Observed Behaviour Survey – Land
- AdventureSmart – its future role



11f. SAR Assurance

Search & Rescue Telecommunications Working Group (Land)

- Integrated Radio Communications Framework for NZ Land-based Search and Rescue Operations has 14 recommendations.
- Channel Plan Meeting to be held on the 7th September 2017

Design the VHF handheld portable radio 'channel plan'.

TP9300



- Next Working Group Meeting to be held in October 2017.

11f. SAR Assurance

Aviation Engagement Framework



11g. NZ's SAR Guidelines

New Zealand's Search and Rescue Guidelines

Objective:

- Create and maintain an agreed, unified and documented *doctrinal* base for the conduct and operation of Search and Rescue in New Zealand
- Project Manager and Writer to be contracted



11g. NZ's SAR Guidelines

Sector support required for :

- **Project Steering Group**
 - Police / RCCNZ / LandSAR / Coastguard / SLSLNZ
 - Senior operational personnel to provide cross sector assurance for the content and format of the Guidelines
- **Subject Matter Experts**
 - to provide the expert knowledge relevant to SAR in the Land / Air / Water environments

11h. Evaluation Training

- The **purpose** of the training is to introduce the basic principles of evaluation methodology, and in doing so enable a consistent standard of evaluation reporting practice.
- Training will be a one day face to face course with associated pre-course readings and follow-up activity
- Aim to have trained Evaluators available in all Districts
- First course expected in Oct / Nov 2017
- Course participants by agency nomination

11h. SAR (ACE) Survey

<i>Significant declines in...</i>	2017	2016
NPS	+51	+61
Agreed the assessment was fair	90%	96%
Agreed taught me skills very relevant to the tasks I do for SAR	88%	95%
Positive about timing of the course	85%	92%

The results are positive regarding skills and safety practices for SAR operations:

- **94%** agreed team work was encouraged on the last course they attended.
- **93%** agreed that tutors ensured Health and Safety practices were followed.



11h. SAR (ACE) Training Update

As at 1 July 2017	2017	2016
Number of courses to date	48	49
Number of courses cancelled (YTD)	14	10
Total number participants attending	626	751
Average number attending per course	13	15.3
Total EFTs used to date	42.7	62.5
Projected EFTs To Year End (max 155)	90	130



11h. SAR (ACE) Training

Air Observer Training:

- March 2017 courses cancelled:
 - Auck - due to adverse weather
 - Wanaka – due to low numbers
- Next course planned for October 2017, Ardmore
 - actively contacting aviation operators for course participants

11h. START material

Recent on START:

- SAR in Antarctica - video
- CIMS Training information for CIMS 2nd Ed
- Family Liaison – video
- Marine SAR and Air Observer resource material
- Resources Database Guidelines for use



Library of SAR knowledge and experience for practical SAR people

11i. SAR EXERCISES

Police District SAREX:

- \$7,500 per District to support annual land / marine exercises
- Do we provide the Evaluator?

RAUORA MRO Exercises:

- 2017: Tasman 1 Nov; Auck 7 Nov; RCCCNZ Dec
- 2018: Wgtn 14 Feb; Eastern 13 Mar

Practical Exercise:

- 2018: date and location to be confirmed
- MRO scenario involving a large number of people to be rescued and processed for reconciliation

12. Wahine 50 & NZSAR Awards

10 April 2018

- Day:
 - Wahine 50 events
 - Shed 6 SAR Agency Display
- Evening:
 - NZSAR Awards
- Consultative Committee separate day



SAR Agency Display:

- Sector agency 'stands' promoting key SAR safety messages
- Opportunity to market
- Requires agency commitment

NZSAR

New Zealand Search
and Rescue



Next Meeting:

- Wednesday 22 November (combined workshop with Council)

Location to be advised

ENDS

