Assessment of Notification Tools (Messaging) Communications Plan Notification: term used to describe the dissemination of emergency messages

<u>Tools</u>	<u>Use</u>	<u>Advantages</u>	<u>Disadvantages</u>
Radio	Notification	Fast -Instant notification to all who are listening	Must be tuned in to receive messages
	PAE	Supports detailed up-to-date information	Will also reach people who are not
		Messages can be repeated until emergency has passed	affected
		Generally accessible to all (most affordable to all)	Scheduling may limit access
		Respected/ credible medium	Poor service in some areas
		Can be used in or outdoors, in vehicles on land or elsewhere	May not be available during power
		Cheap	outages
		Supports variety to live and pre-recorded information	
		Generally portable and battery operated	
Television	Notification	Instant communication to all who are watching	Expensive
	PAE	Supports detailed, up-to-date information	Must be turned on to receive messages
		Messages can be repeated until emergency has passed	Generally not accessible outdoors
		Can reach people indoors	Will reach people who are not affected
		Generally universal even although not everyone has access	Not available during power outages
		Respected/ credible medium	
		Allows use of visuals to explain complex issues	
		Poor reception in some areas	
		Supports variety to live and pre-recorded information	
		Supports message crawls	
VHF or Amateur	Notification	Can be used as back up communications tool between	Volunteers not always on hand
Radio		community and Emergency Centre during and after events	Roles for amateur operators in the EOC
		Portable and operates on multiple frequencies	system not defined
		Allows for notification as well as confirmation	Operators must hold certificates of
		Generally easy to access from a number of sources	proficiency
		Inter-operable with other equipment	VHF coverage may be limited in some jurisdictions

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Tools	Use	Advantages	Disadvantages
Cable Television System	Notification PAE	Widely available for indoor use Formatting provides opportunity to PAE tools Detailed up-to-date information Messages can be repeated until emergency has passed Supports variety of live and pre-recorded information Supports message crawls	Community must have cable TV Receiver must be turned on Must be tuned to specific channels Unsuitable for initial alerts No available during power outages Programming staff not always accessible No coverage in areas with no access to cable
Internet, Social Media	Notification/ PAE	Generic infrastructure make it accessible everywhere Able to function on multiple platforms including cell phones Low cost Access to many applications and media Possibility for automation Proven tool for coordination, relief distribution in large scale and international events	Some applications require high-quality networks and possiblly experts Not generally available during power outage Not generally available during service outage May require the installation of software on multiple computers to make them compatible Servers and server management may be required Firewall issues may prevent sending or receipt of messages Warnings will be received only upon checking Credibility, Trust Issues HIGH

Tools	Use	Advantages	Disadvantages
Telephone (landlines)	Notification	Multi-purpose Supports pre-recorded or pre-scripted messages Can operate during times of limited power outages Can be supported by cellular and satellite phones Can be targeted to specific geographic locations Supports multiple languages Allows grouping of stakeholders for recorded messages Can operate 24/7 Allows for logging of non-responsive individuals and schedule call backs	Cannot reach people without telephones Generally cannot reach people outdoors Cannot notify people unless they answer the phone Not available during service outages Speed is determined by message length Cannot verify and those receiving calls understand the messages Congestion of telephone networks reduces delivery time.
Email	Notification (longer term)	Easy interface for senders and receivers Supports delivery to multiple users Graphics can be attached to explain complex issues Confirmation easy Widely supported on both computer and mobile phones Cane operate even in low quality conditions Can easily be interfaced with other systems	May require central email servers Public email limits the number of addresses in one email No guarantee of delivery time Requires operating network return path for forward delivery ISP security, reliability not guaranteed Low security and can be easily faked Credibility issues due to large amount of spam emails

Tools	Use	Advantages	Disadvantages
Cellular & SMS	Notification	Multi-purpose and widespread coverage Can ach people in a variety of locations Supports pre-recorded and pre-scripted messages Battery operated and portable Allows grouping of stakeholders for recorded or text messages Can be supported by landlines and satellite phones Cab be used indoors and outdoors SMS can target specific groups Technology in use by most	Coverage of all islands maybe compromised Congestion may affect delivery Require sturdy operational systems outside of emergency areas to send messages Damage to infrastructure can directly impact service availability or quality Calls between service providers may be affected by challenges on the receivers central switches Not all users use SMS
Cellular SMS Cont'd	Notification	Relatively inexpensive Networks support a variety of different devices SMS can pass messages even when voice systems are down or is congested Can be sent from internet email client, phone or other mobile messaging device Alternate way of reaching hearing impaired Supports multiple languages Can operate 24/7 Allows for logging of non-responsive individuals and schedule call backs	between normal and emergency SMS-may not be read Providers say may not be suitable for fast

Tools	Use	Advantages	Disadvantages
Outdoor or	Notification	Highly visible, public access Mobile signs can be moved to	Weather may impact visibility
Mobile Video Screens		different locations, ace be easily repeated, updates Remote access Multiple language capability Available 24x7	Distance and speed of vehicles my impact visibility Vulnerability to vandalism
	IAL	Cheaper than TV	
Cellular Broadcast	Notification	Operates below the voice service and is able to broadcast even when voice service is congested Is able to reach multiple users at once Priority over SMS	Only short messages of 130 to 160 characters can be sent Broadcast only available to users of specific service provider. Damage to infrastructure can directly impact service availability or quality Requires cell service provider to access Users may find it difficult to differentiate between usual company adverts and emergency broadcast

Tools	Use	Advantages	Disadvantages
Mobile	Notification	More efficient that door-to-door	Only good is vehicles/ personnel are
Announcement	PAE	Highly credible if emergency units are used	available
or Town Crier		Can be moves from area to area quickly	Could place emergency crews in danger
Systems		Can target specific areas or homes	Road damage by hamper use of vehicle
		Can reach people indoors as well as outdoors	Limited coverage area (app 1/2km
		Messages can be easily changes or repeated	radius)
		East to install and fits many types of vehicles	May not work well in areas where homes
		Can have hand-free operation	are setback from the road; hotel districts
		Already installed in emergency vehicles – police cars, fire	Limitations of loud speaker systems
		trucks and ambulances	reduces cone of audio dispersion
		Cost –effective for large areas such as public beaches and	My require logistical support
		parks.	
Door-to-door	Notification	High degree of credibility	Time consuming and slow
	PAE	Provides all necessary information and instructions	Places personnel at risk
		Very strategic/direct notification	Requires the recruitment and training of
		Can reach all people in a specific location	large numbers or 24/7 access to mobile
		Ensures that everyone at the location is notified and	unit
		understands the necessary actions	May require significant logistical support
		Cost effective if volunteers are used	Unable to reach a wide area quickly

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