Virtual Communities and Social Networks: new resources for mountain

rescue

Dale Atkins Mountain Rescue Association Alpine Rescue Team Colorado, USA



Because of the Internet

- more "volunteers" are offering to help
- in the past we often looked at these people as problem makers rather than problem solvers
- maybe it is time for us to change our attitude

Online (Virtual) Communities

- use computers and the Internet to share interests and activities
- interested in interests and activities of others

Social Network Definition

= nodecan be an individual, family, organization, corporation/society, government, etc.

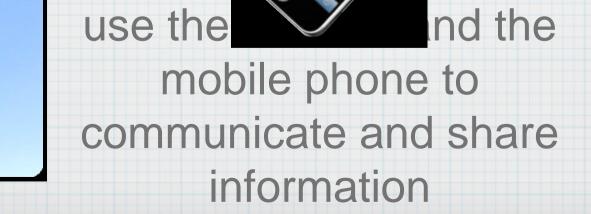
 tie is the connection, based on common values, interests, likes, dislikes, trade, etc.

network is the relevant ties
 between nodes

Social Network Development			
	pre-digital age	digital age	
call to help	rescuers		
nodes	few		
information flow	hierarchica I		
time	hours – days – weeks		

Social Network Development		
	pre-digital age	digital age
call to help	rescuers	friends, family, rescuers
nodes	few	many
information flow	hierarchica I	multidirectional
time	hours – days – weeks	minutes – hours

Virtual Communities







Virtual Communities

have involved themselves directly and indirectly with professional search and rescue (SAR) responses

have organized and conducted SAR operations

sometimes with successes

sometimes with problems

Benefits

access to larger social networks

nearly instant communications

knowledge

😫 skill

technology

manpower

Problems

poor information

inexperience

conflict

public criticism

Examples – USA

Jim Gray – sailor – January 2007

- Steve Fossett pilot September 2007
- 3 snowboarders avalanche June 2008
- 1 climber fall June 2008
- 1 hiker missing August 2008



Jim Gray

internationally know computer scientist went missing off coast of California. (Jan 2007)

search area 342.000 km²

virtual community used Google Earth and Amazon's "Mechanical Turk"



Jim Gray

search area 342.000km²

- Google Earth created 100m wide search sectors
- Amazon's Mechanical Turk provided the Internet venue for people to sign up to help
- 3000+ people helped search by viewing satellite imagery



Does it work?

sometimes...has lead to frustration

- Iittle understanding of what "requesters" are looking for
- poor user interface
- Iack of meaning in what others find



Steve Fossett

Illionaire adventurer went missing in a small plane over Sierra Mountains of Nevada and California (Sept 2007)

search area 16.000 km²

virtual community used Google Earth and Amazon's "Mechanical Turk"

"tens of thousands" signed up to



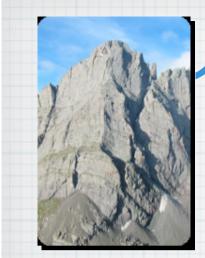
3 snowboarders – Nashington state

- went missing on 2 Dec. 2007
- search area 260 km², 40+ major avalanches
- formal and large search effort suspended 8 Dec. 2007



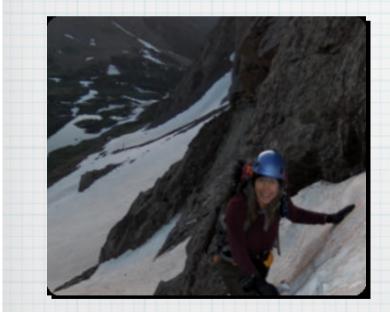
3 snowboarders – Nashington state

- formal search to resume in July 2008
- mid June 2008 members of www.turnall-year.com organize search effort
- coordinate with law enforcement and ski patrol
- conduct search and find buried bivouac with 3 bodies



climber killed – Colorado

group called friend immediately after accident



- friend posted report on Internet with subject's name
- rescue team and police inundated with telephone

calls – delayed response

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Aissing hiker - CCSAR needs info!	Mick	
by Mick on Sat Aug 09, 2008 6:17 pm	Posts: 2 Joined: Sat Aug 09, 2008 6:	01 pm
li,	14er Peak List	
am a member of Custer County Search and Rescue, and we have a search in progress in the Crestone Needle area. Any nformation anyone can provide would be greatly appreciated. Here are the details:		
Our subject is 6'3", 200 lbs., white male. He was wearing khaki pants, light-colored long-sleeve t-shirt, possibly a black ghtweight hooded parka, and a a light brown baseball cap. He is in his 40s and is described as being in good physical sha	ape.	
le and his companion were attempting Crestone Needle by the standard route on Friday. He was last seen by his companic omewhere between Broken Hand Pass and the gully early to mid-morning.	on	
lis companion stopped the climb at that point, and the subject joined a father/son team to continue the climb. The father/ eam returned and told the subject's companion (who was still above Broken Hand Pass) that the subject was descending be hem – but, in fact the subject never made contact with his climbing partner.		
f anyone has any information that might be helpful, please contact Custer County Search and Rescue ASAP at 719-783-04 Ve'll continue to monitor this thread, but a phone call will get us info more quickly.	142.	
'hanks, Nick Backsen ICSAR		

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Virtual Communities a new resource for mountain rescue

- should have a small and creditable presence on web sites
- educate community how to report mountain accidents
- educate community how mountain rescue works
- be willing to accept their assistance

Virtual Communities & Mountain Rescue

can work together to help those in need!