

Realising Public Safety Apps

David Lund

Graz, 26nd May 2015

What ?

Lets work out what apps we might find in the
PPDR App Store

What ?

Actually – what apps would you like to see ?

What ?

Actually – what apps would you like to see ?

Paris, November 2014

What ?

OK, so we'd actually like that

How do we make it happen ?

Graz, May 2015

Why ?

1. Great Presentations all day – time to kick back a bit

Why ?

1. Great Presentations all day

1. You all get to know each other just a little bit more

Why ?

1. Great Presentations all day
1. You all get to talk to each other a bit more
2. We have a wealth of knowledge in the room
– lets use it !!

Why ?

1. Great Presentations all day
1. You all get to talk to each other a bit more
2. We have a wealth of knowledge in the room
– lets use it !!
3. **Collective gain – we all learn just a little more**

Why ?

Maybe someone will help to make this happen

Paris, Nov '14

NAME APP	PHASE	PHASE	USERGROUP	USERGROUP	SHORT DESCRIPTION	COMPONENT/FEATURE	COMPONENT/FEATURE	GROUP
App management and organization	preparedness		public safety officers		selection of the most usefull app for a specific mission	app store/overview	recommendation system	
Citizen engagement	all		public safety officers	citizens	repeat problems, status & what to do	map	push message	
Crisis alert app	preparedness	response	public safety officers	citizens	notification, information push, instructions	map	push message	
Situation Awareness app	preparedness	response	public safety officers	first responders	maps, data intelligence, resources			
Triage app	response		field workers	paramedic	triage the situation of the patient, identity the critical patient			blue
E-triage	response		fire fighters	police	automatic triage based on wireless vital sensors and biometrics for victim recognition, hospitalization guidelines			
BA-T2 whistle	preparedness	response	fire fighters					
My personal evacuator	response		security personnel	citizens	personal evacuation instructions, shelter finder, ...	map	route guidance	
Reassure beloved	mitigation	preparedness	first responders	citizens	the smartphone user enters a list of contact to be informed in case of emergency network sends it out in most efficiently way if triggered			
Vehicle incident telematics	response		police		app will integrate vehicle dynamics prior to collision and present them to the police			
Where is the response	response		public		showing location of other resources on the way to the accident	map	real-time	brown/yellow
Crowd movement app (police, fire)	preparedness		police		gathering information of crowds of people and how they are moving	map		
Historical crime density app	phase		police		map with history of crime (density)	map	historical data	
Historical density of fire app	phase		fire fighters		map shows fire in the area	map	rfid tag	
Document reader app (police)	phase		user group		app to read documents, fire driver licence, ... (includes document reader)		face recognition	
Mobile field office app	phase		user group			finger printing	face recognition	
Extra idea gun app	phase		user group		app to report when gun is out of holster			green
face recognition	phase		police		app recognices faces and matches it with a database	face recognition		
finger print reader	phase		police		app reads and searches finger print and stores it in a database	finger print recognition		
accident map	phase		fire fighters	police	map showing historical data of car accidents in the environment	map	historical data	
traffic light app	phase		fire fighters		app that shows traffic light has been on red route			
health stat monitor	phase		public		app that monitors heart rate, temperature, blood pressure	health data		
panic button app	preparedness		user group		app whether monitor the area and environment around the 'patient' (pulse, temperature, ...)			
mission app	phase		police		mission app for coming tasks. Mobile version of field command system			
nearest public shelter	preparedness	recovery	public		shows the way to the nearest public shelter			
procedure handbook	phase		police	fire fighters	app to get answers on different procedures (eg how to handle shooting,...)			
smart office map	phase		user group		report generator app to store reports with photo and voice to tekst			
Map app	response		first responders		info on nearby critical infrastructure, map of buildings, navigation to the scene	photo, video	drone	
Med app	response		first responders		access to checklist with medical aid info, comm tool, video doctor contact, guide, monitoring data on the way to hospital			
Mountain app	response		field workers	dispatch	localisation of victims, weather & avalanche forecast, rescue info in mountain area			
Situation App Citizen	response	recovery	citizens	commanders (coordinators)	heat wave info, citizen warning, managing non-prof volunteers			
Situation App PPDR	response	recovery	first responders	commanders (coordinators)	heat wave info, closest tools, video from teams to HQ, riskinfo, environm hazard			
Triage app	response		first responders	commanders (coordinators)	outdoor tracking of victims, prioritisation,...of triage, location info			pink/orange
App siren	response		all car drivers	police	car drivers are warned that ambulance is coming and can clear the road well in advance			
Awareness App	response		fire fighters	police	situational awareness between a group of users (video, voice, files)			
B-awareness	response		all		data collection from incident location and criticality of the incident			
B-prepared	preparedness		citizens		directory of information to be better prepared in case of events. Continuously updated/enriched and advertised			
E-training	preparedness		field workers	volunters	standard operational procedures trained with illustrative examples (test)			
Everyday citizen security (outdoor)	preparedness	response	citizens		city security, banking security, disabled citizens, traffic situation, contact PSAP in other country,...			
Where (I am) & What's (around me)	response	recovery	responders		use of static and instant technologies for indoor & outdoor locations of individuals and assets			red

40 APPS

Today – Realise them

– 4 groups

1. Finian Joyce
2. Hakan Marcusson
3. Uwe Kippnich
4. Paul Hirst

– Until coffee – individually score ‘em

– During Coffee – Discuss and refine ‘em

Q's

- What information does this app use, gather or produce?
- Where is the information sourced?
- What type of device will this app run on?
- Is the information freely available, or obtained commercially?
- Is the app sensitive to
 - Latency
 - Available bandwidth
 - Data transfer set up time
 - Etc.

Results

- As a PSCE White paper
- Presented in Oxford
- Ideas for more collab sessions?

Realising Apps - Group 1

APP NUM	NAME APP	PHASE	PHASE	USERGROUP	USERGROUP	SHORT DESCRIPTION	COMPONENT/FEATURE	COMPONENT/FEATURE	GROUP
1	App management and organization	preparedness		public safety officers		selection of the most usefull app for a specific mission	app store/overview	recommendation system	
2	E-triage	response		fire fighters	police	automatic triage based on wireless vital sensors and biometrics for victim recognition, hospitalization guidelines			
3	Crowd movement app (police, fire)	preparedness		police		gathering information of crowds of people and how they are moving	map		
4	accident map	phase		fire fighters	police	map showing historical data of car accidents in the environment	map	historical data	
5	Map app	response		first responders	dispatch	info on nearby critical infrastructure, map of buildings, navigation to the scene	photo, video	droness	
6	App siren	response		all car drivers	police	car drivers are warned that ambulance is coming and can clear the road well in advance			
7	Citizen engagement	all		public safety officers	citizens	repeat problems, status & what to do	map	push message	
8	BA-T2 whistle	preparedness	response	fire fighters					
9	Historical crime density app	phase		police		map with history of crime (density)	map	historical data	
10	traffic light app	phase		fire fighters		app to turn traffic light into green on the route			

Realising Apps - Group 2

APP NUM	NAME APP	PHASE	PHASE	USERGROUP	USERGROUP	SHORT DESCRIPTION	COMPONENT/FEATURE	COMPONENT/FEATURE	GROUP
11	Med app	response		first responders	paramedic	access to checklist with medical aid info, comm tool, video doctor contact, guide, monitoring data on the way to hospital			
12	Awareness App	response		fire fighters	police	situational awareness between a group of users (video, voice, files)			
13	Crisis alert app	prepardness	response	public safety officers	citizens	notification, information push, instructions	map	push message	
14	My personal evacuator	response		security personel	citizens	personal evacuation instructions, shelter finder, ...	map	route guidance	
15	Historical density of fire app	phase		fire fighters		map shows fire in the area	map	rfid tag	
16	health stat monitor	phase		public		app that monitor heart rate, temperature, blood pressure	health data		
17	Mountain app	response		field workers	dispatch	localisation of victims, weather & avalanche forecast, rescue info in mountain area			
18	B-awareness	response		all		data collection from incident location and criticality of the incident			
19	Situation Awareness app	preparedness	response	public safety officers	first responders	maps, data intelligence, resources			

Realising Apps - Group 3

APP NUM	NAME APP	PHASE	PHASE	USERGROUP	USERGROUP	SHORT DESCRIPTION	COMPONENT/FEATURE	COMPONENT/FEATURE	GROUP
20	Reassure beloved	mitigation	preparedness	first responders	citizens	the smartphone user enters a list of contact to be informed in case of emergency network sends it out in most efficiently way if triggered			
21	Document reader app (police)	phase		user group		app to read documents, fire driver licence and passboards			
22	panic button app	preparedness		user group		app to gather most information of the area and environment around the 'patient' (pulse, temperature)			
23	Situation App Citizen	response	recovery	citizens	commanders (coordinators)	heat wave info, citizen warning, managing non-prof volunteers			
24	B-prepared	preparedness		citizens		directory of information to be better prepared in case of events. Continuously updated/enriched and advertised			
25	Triage app	response		field workers	paramedic	triage the situation of the patient, identity the critical patient			blue
26	Vehicle incident telematics	response		police		app will integrate vehicle dynamics prior to collision and present them to the police			
27	Mobile field office app	phase		user group		(includes document reader)	finger printing	face recognition	
28	mission app	phase		police		mission data for coming tasks. Mobile version of field command system			
29	Situation App PPDR	response	recovery	first responders	commanders (coordinators)	heat wave info, closest tools, video from teams to HQ, riskinfo, environm hazard			
30	E-training	preparedness		field workers	volunters	standard operational procedures trained with illustrative examples (test)			

Realising Apps - Group 4

APP NUM	NAME APP	PHASE	PHASE	USERGROUP	USERGROUP	SHORT DESCRIPTION	COMPONENT/FEATURE	COMPONENT/FEATURE	GROUP
31	Where is the response	response		public		showing location of other resources on the way to the accident	map	real-time	brown/yellow
32	Extra idea gun app	phase		user group		app to report when gun is out of holster and gun fired			green
33	nearest public shelter	preparedness	recovery	public		shows the way to the nearest public shelter			
34	Triage app	response		first responders	commanders (coordinators)	outdoor tracking of victims, prioritisation,...of triage, location info			pink/orange
35	Everyday citizen security (outdoor)	preparedness	response	citizens		city security, banking security, disabled citizens, traffic situation, contact PSAP in other country,...			
36	procedure handbook	phase		police	fire fighters	app to get answers on different procedures (eg how to handle shooting,...)			
37	Where (I am) & What's (around me)	response	recovery	responders		use of static and instant technologies for indoor & outdoor locations of individuals and assets			red
38	face recognition	phase		police		app recognices faces and searches in database	face recognition		
39	smart office map	phase		user group		report generator app to store reports with photo and voice to tekst			
40	finger print reader	phase		police		app reads and search for finger print and store them	finger print recognition		