



PPDR's Requirements for crisis and disaster management

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PSCE – the Public Safety Communications Europe Forum

a Brussels-based, non-profit organisation
aiming at improving provision of public safety
communications
and information management systems and the safety
of the citizens during crisis and emergency situations.



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Public Protection and Disaster Relief PPDR

Protecting and safeguarding lives of citizens

Society expects that governments make all resources available to allow

- police,
- fire-brigades,
- ambulances,
- civil protection
- (PPDR)

effective and efficient work.



Communication Tools

- Voice communications is ok
 - TETRA networks running
 - But already running out of life-cycle
- The next step is necessary
 - Data – Data – Data !



Expectation, how PPDR should work:



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Expectation, how PPDR should work:



And this is how PPDR work



And this is how PPDR work



It's all about Data, Data, Data

The right data, at the right time, at the right place for the Fire-brigades:

- Maps, orthograph-photos
- Critical infrastructure information
- Dangerous goods info



Einsatzkräfte zur Spitzenzeit

Organisation	Anzahl	Fahrzeuge	Mannschaften
Ortsfeuerwehren	40	90	700
KHD	3 Züge	25	
OBH	4 Kompanien		
Feuerwehr			
Retter			
EVU			
Graßener		10	20
Wasserwerk		5	10
Gemeinden		10	50
Behörden		5	10
SUMME		~ 200 + 4 LFZ	~ 1.400

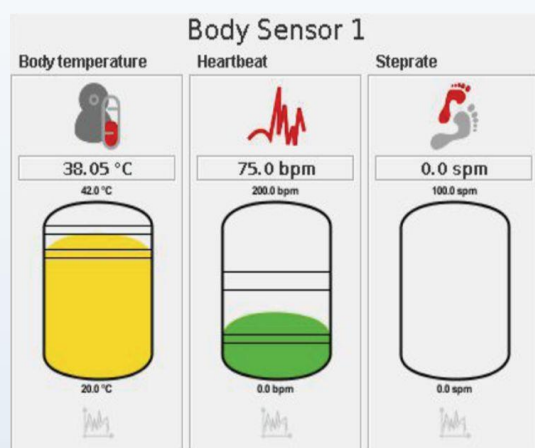
Analogfunk, Behördenfunk, GSM-Telefonie, Festnetztelefonie und Satellitentelefonie außer Betrieb



It's all about Data, Data, Data

The right data, at the right time,
at the right place for the Fire-brigades:

- Vital data of the fire-fighters



from EU-funded project „u2010“



BODY & FOOT SENSOR

- Monitoring of specific parameters:
- Heartbeat & Temperature
- Foot pressure force



It's all about Data

The right data, at the right time,
at the right place for the Ambulances.

- Fleet managing – the right ambulance
- Patients data history
- Remote experts support on scene,
at move
- Video/photo/vital data to the hospital



It's all about Data, Data, Data

The right data, at the right time,
at the right place for the Police:

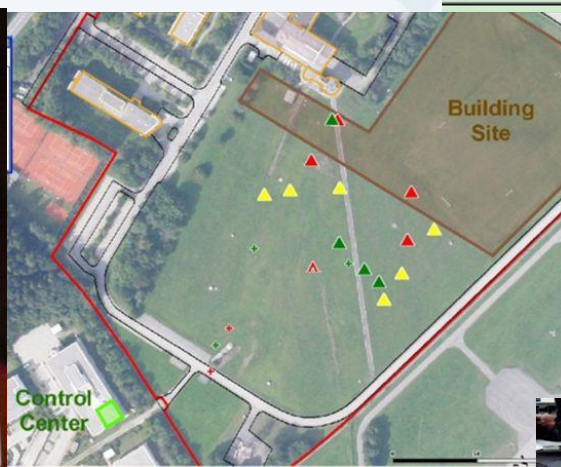
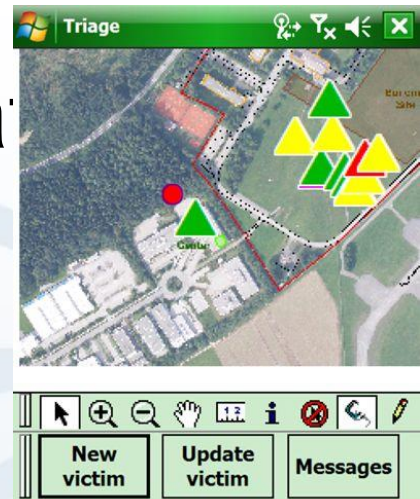
- Fleet managing – coordinating resources
- Video transmission to the car (video from the bank is already available at HQ.)
- Collecting evidence („Unfriendly clients“)



It's all about Data, Data

The right data, at the right time,
at the right place for disaster management:

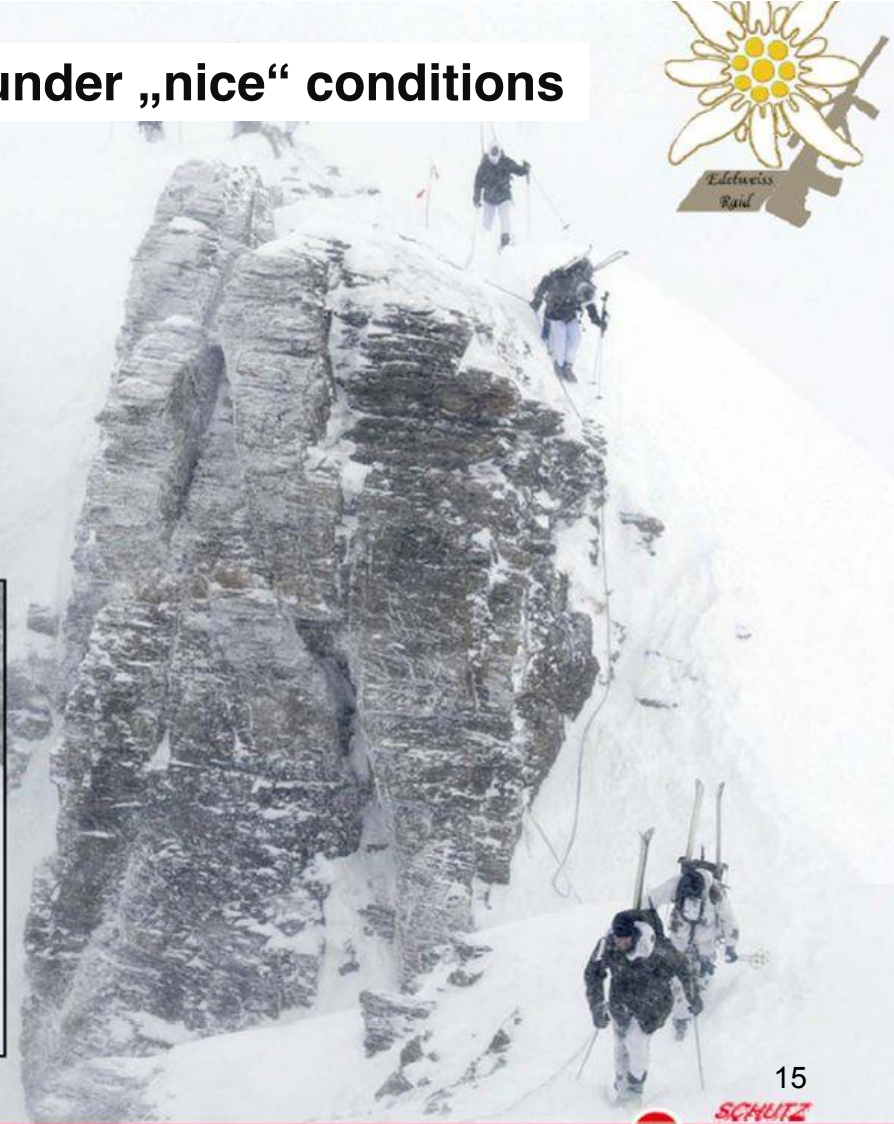
- Satellite imagery, photos, maps
- Victim's managing – triaging,
tracking / tracing of victims



(from EU-funded project „WISECOM“)



Not always under „nice“ conditions



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Harmonised & dedicated spectrum?

Yes – Yes – Yes!

What do disasters like „9/11“, tsunamis, earthquakes, nuclear threats, terrorist attacks and a „simple“ fire in a tunnel or an avalanche have in common?

- They destroy or overload public communications networks
- International cooperation is becoming more and more important
- Communications is THE key to a successful cooperation
- No communications without harmonisation



Mobile Broadband for PPDR

It is not to get a new gadget for the techy freaks in PPDR

It is for an efficient and effective service for the public, for the citizen, for the tax-payer in case of crisis and disaster – and the necessary tool for PPDR in everyday's incident management.