



Radiocommunications Agency Ministry of Economic Affairs, Agriculture and Innovation

Civil use under normal conditions Governmental use during crisis

Frequency use in the Netherlands

By George J Petersen MSc Public safety advisor

PSCEurope Forum Conference 30 Nov-1 Dec 2010

07/12/2010



Agenda

 Introduction of the Radiocommunications Agency organization

•Explanation Civil normal, Governmental during crisis

Conclusion

Questions / discussion



Introduction

•The Radiocommunications Agency is part of the ministry of Economic affairs, Agriculture and Innovation.

•It is the sole responsible governmental body for frequency management.

•In case of emergency and crisis the ministry has power to reassign frequencies, normally assigned to others. (Government and commercial)



Are we out of frequencies?

- •It looks like it. The most competitive part is 100 3000 MHz
- •This is due to physical aspects like propagation and penetration of buildings
- •We cannot invent new frequencies, we can only refarm
- •Be innovative, leading to more efficiency,
 - Sharing geographical, in time and automated (cognitive)



What about crises and disasters

 During crises and disasters there is definitively an additional frequency demand for public safety users (often also for others)



What about crises and disasters

- The first kind is instantaneous e.g a plane crash or a train crash
 - Frequencies have to be available, capacity can be switched
 - This is not the subject of this presentation!





What about crises and disasters

- The second kind is large scale disruptions of the infrastructure
 - Causes can vary e.g. earth quake, flooding
 - The communication infrastructure also affected
 - Demand is increasing
 - This is what we are talking about!





What about crises and disasters •Epidemics and pandemics

•Lots of people sick, others needed to take care of them

•All infrastructure theoretically OK

•Preferably no action!



Radiocommunications Agency 07/12/2010



What about a crises and disastersThere is a legal framework

•There are no fixed rules when to apply what

•That is fine, we never know what the next disaster will be, we can only learn from the past.

•We do have a kind of cookbook which guides the decision makers to the right decisions.



What's in the cookbook

•Impact analyses of the switch of in certain bands

- Radio amateur and radio astronomy bands
- Broadcast -> often the only way to inform the public
- Cell phone -> The cure must be better than the disease

•It is not a public document



What is needed

•First of all the emergency services will use their own equipment

•Emergency services should have equipment that is able to use the additional frequencies

•This should be equipment in daily use

- lessons learned show us additional special equipment does not work when needed
- No to minimal difference for the user, so he can concentrate on his job, not on the equipment. This is also known as "train as you fight"
- The equipment should have an extended tuning range!



Conclusion

•An effective mechanism to move scarce frequencies from public to government during crises is needed

•It should cause as little as possible collateral damage

•There are no banned frequencies

•emergency services should invest in equipment with an extended tuning range.



Questions?



Radiocommunications Agency 07/12/2010



Contact

Agentschap Telecom Public safety department George Petersen PO BOX 450 9700AL Groningen The Netherlands Phone +31 50 587 7187 FAX +31 50 587 7400 E-mail george.petersen@agentschaptelecom.nl