Short Wave critical Infrastructure Network based on new Generation of high survival radio communication system (SWING)

Second Plenary Meeting
AGENDA

(14th February 2013)

Meeting place:

Istituto Nazionale di Geofisica e Vulcanologia
Via di Vigna murata, 605 - 00143, Rome – Italy

Multimedia hall

11:30 – 12:30 Registration
Initial discussions

12:30 – 14:00 Lunch

Conference hall

14:00 – 14:30 Opening
General information
Bruno Zolesi

14:30 – 15:45 Status of the project, short report on the first year activities
Michele Morelli and Cesidio Bianchi

Deliverables of the first year:

1- Interface with EU authorities and coordination.
(INGV, *Jan 2012- Dec 2013*)
2- Technical analysis of the communication problems related to the identification and designation of CIs in the interested area.
(INGV – CNIT, *Jan 2012-Sep 2012*)
3- Determination of the topology of high survival radio communication network.
(INGV – CNIT, *Jan 2012-Sep 2012*)
4- Characterization of the minimal amount of information necessary for the survival of the CIs communication.

(INGV – CNIT, *Oct 2012-Jan 2013*)

6- Analysis of the existing architecture of HF communication based on internet protocol access with reference to the above considered infrastructures.
(CNIT, *Jan 2012-Jun 2012*)

7- Analysis of existing HF connection system in terms of software and hardware for internet connection.
(CNIT, *Jan 2012-Jun 2012*)

8- Definition of the High survival HF radio network technical requirements.
(CNIT, *Jan 2012-Jun 2012*)

9 - Radio network system design.
(CNIT, *Jan 2012-Dec 2012*)

10- Criteria of early warning alert and procedures to activate the back up network.
(CNIT, *Sep 2012-Dic 2012*)

15:45 – 17:00 Open discussion on the second year activities
All participants

Deliverables of the second year:

5- Operative supervision of the network architecture.
(INGV – CNIT, *Jan 2013-Apr 2013*)

11- Monthly prediction of the hourly HF set of frequencies over the n radio links given by the network, based on the available ionospheric model and methods.
(INGV-EO, *Jan 2013-Apr 2013*)

12- Daily forecasting of the hourly HF set of frequencies based on the Mediterranean ionospheric measurements.
(INGV-EO, *Jan 2013-Apr 2013*)

13- Ground wave propagation analysis when required.
(INGV, *Aug 2013-Dic 2013*)

14- Frequency management system for HF communication link optimization.
(INGV-EO, *Aug 2013-Dic 2013*)

15- Identification of the professional profile able to maintain and operate network.
(INGV-CNIT-NOA-EO, *Oct 2013-Dic 2013*)

16- Dissemination of deliverables within communities informing about initiatives organised in the context of the project.
(INGV-CNIT-NOA-EO, *Oct 2012-Dic 2012 and Oct 2013-Dic 2013*)

17- Professional training activities trough courses, workshops and conferences.
(INGV-CNIT-NOA-EO, *Oct 2012-Dic 2012 and Oct 2013-Dic 2013*)

18- Assessment of the potential impact and feasibility of the project for ECIs and CGAs and final recommendations for the EC.
(INGV-CNIT-NOA-EO, *Oct 2013-Dic 2013*)

17:00 – 17:30 Experimental activity

Deliverable:

19- Realization of a demonstrator constituted by 4- terminals HF network.
(INGV-CNIT, Jan 2012-Dic 2013)

17:30 – 18:00 Next meetings and Administrative issues

18:00 Welcome cocktail