RNRE – GAREC MEETING

Friedrichshafen – Ham Radio 2019

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WHO WE ARE

We are the most important EMCOMM association in Italy, with volunteers spread all over the peninsula.
WHERE WE ARE

• Regions in light blue are Regions where we have active volunteers

• Stars indicates cities where a UM (Mobile Unit) is dispatched
WHAT IS OUR MISSION

Our mission is to guarantee communications in emergency situations. This is achieved by the use of several technology such as:

- Traditional analogical RTX (FM radios in civil bands)
- Satellite Communications (Internet connection guaranteed all over the country)
- VoIP devices (Service delivered via Satellite Communications)
- PACTOR
- C4FM
- DSTAR
- DMR
- More…
DMR PROJECT - WHY

- There was a major problem:
  - Every single association that is involved in an emergency, has its own radio network
  - Someone is required to coordinate all of those different network

R.N.R.E. has been chosen by the national department to provide such service
DMR PROJECT – HOW

With a three years project, we aim to be a powerful support to every element involved in the emergency
R.N.R.E. DMR network implementation for emergency situations.

The repeaters will then be connected to fixed repeaters outside from the emergency area. The network will operate in our two frequencies (in the 160-170 mHz band).
DMR PROJECT – WHEN

- Phase 1 (2018): Acquisition of first Motorola DMR device.
- Phase 2 (2019): Acquisition of:
  - Off-road vehicle for TLC
  - TLC truck
- Phase 3 (2020): Acquisition of the remaining Motorola DMR devices.

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PROGRESS OF THE DMR PROJECT (PHASE 1 UPDATE)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>acquired/ Total (phase 1 + 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VHF repeaters</td>
<td>5/10</td>
</tr>
<tr>
<td>Transportable VHF repeaters</td>
<td>7/14</td>
</tr>
<tr>
<td>Transportable base station VHF radios **</td>
<td>0/10</td>
</tr>
<tr>
<td>Base station radio *</td>
<td>0/1</td>
</tr>
<tr>
<td>Handled VHF radios **</td>
<td>81/230</td>
</tr>
<tr>
<td>Mobile VHF radios **</td>
<td>34/65</td>
</tr>
<tr>
<td>Software licenses</td>
<td>17/20</td>
</tr>
</tbody>
</table>

* Will be placed in national HQ

** Radios are in VHF band since they will need to operate on our TWO reserved civil bands
PROGRESS OF THE DMR PROJECT
(PHASE 2 UPDATE)

By the end of the year we will receive two vehicles:
• TLC truck (as shown in the pictures)
• Off road vehicle to support
WHEN AVAILABLE?

The first part of the project is complete. As of today, we have received almost 50% of the planned financial resources. That means that we were able to buy half of the devices we have planned.

For the second part:
- Device installation will begin in 2019 and finish by the end of this year.
FUNCTIONAL TESTS

- If you will come to our stand, you will be able to have a demo of the implementation.
- To test further the project, R.N.R.E. has decided to join two national exercise.
CAMPI FLEGREI (NAPLES) – OCTOBER 2019
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Thank you for your attention…