QUICK START GUIDE

FOR

GEO-PICTURES

GMES and Earth Observation combined with Position based Image and sensor Communications Technology for Universal Rescue, Emergency and Surveillance

1. Getting started with the GEO-PICTURES Field Client Mobile (GPFC-M)

1.1) Connecting to a network

To connect your HTC Desire Smartphone to a 3G network proceed according to the following steps:

1. Press the "*Menu*" button underneath the display and select "Settings"
2. Go to "*Wireless & networks*"
3. Select "*Mobile network – Connect to the Internet*" and tick the grey box
4. A green check mark should now displayed within the grey box and the text field changed to "*Mobile network – Connected*"
5. By using the ⌂ button or the ↩ button you can return from settings menu to the home screen
6. If wireless networks are available proceed according to these steps but choose "*WLAN*" instead "*Mobile Network*".

1.2) Enabling the GPS unit

To enable the GPS unit of your Smartphone proceed according to the following steps:

1. Press the "*Menu*" button underneath the display and select "Settings"
2. Go to "*Location*" and tick both of the boxes "*Use wireless networks*" and "*Use GPS satellites*"
3. When both grey boxes are marked with a green checkmark return to your home screen

1.3) Taking Images

Now that you are connected to a mobile network and you activated the GPS unit of your Smartphone you may start to take geo-referenced photos and upload them onto the GEO-PICTURES server. To take and send photos proceed according to the following steps:

1. Open the preinstalled application "ASIGN Tx" on the HTC Desire Smartphone
2. Choose "Take Photo"
3. In the top left corner a text will appear saying "Waiting for location…"
4. When this changes to e.g. "GPS N53,57970° E9,85113°" the photos you take will be geo-referenced
5. Aim at the object you want to photograph and press the camera icon in the top right corner of the display
6. A window will appear saying "*A photo has been taken. Upload a preview now?*" You now have the option to "*Send*" / "*Cancel*"
   a. "*Send*": If you hit this button a new screen opens
   b. You can decide to send a "Caption" explaining the photo you are uploading.
   c. "Cancel" The photo will not be uploaded to the server, but saved on the phone and can be send at a later stage.

1.4) Viewing Images

To view images taken with the HTC proceed according to the following steps:

1. Open the preinstalled application "*ASIGN Tx*" on the HTC Desire Smartphone
2. Choose "*View Photos*"
3. The "*Photo Library*" will open, allowing you to browse through the photos on your GPFC-M.

Images that have been uploaded will be marked with a symbol in the top left corner. If the images have not yet been transferred to the server it is possible to select these images and send them as a bulk to the ASIGN Server. Please proceed according to the following steps:

1. Open the preinstalled application "*ASIGN Tx*" on the HTC Desire Smartphone
2. Choose "*View Photos*"
3. Press "Menu" and "Bulk Upload"
4. Choose the images you want upload by clicking on it. A green check mark will be displayed.
5. Press "Upload selected" to start the transfer

1.5) User Tracking

The GPFC-M enables you to have your location tracked live, so that the information maager will now exactly where you while being out in the field. To enable user tracking proceed according to the following steps:

1. Open the preinstalled application "*ASIGN Tx*" on the HTC Desire Smartphone
2. Choose "Prefrences"
3. Put a check mark in "Enable location tracking"

Keep in mind that this function uses a lot of energy and might drain the battery quickly!

2. GEO-PICTURES In-Situ Portal (GPIP)

2.1) Functions

Google Maps and Open Layers

You can choose between different tyes of maps to be displayed - *Google Maps* and *Open Layers*. The different map types can be selected from the drop-down menu on the top of the page. Open Layers allows you to view the recently acquired high resolution satellite images of the areas of interest, providing an improved visual representation of the disaster affected areas.
When choosing Open Layers on the right hand side of the window a " + " symbol will be displayed allowing you to select various map layers. To have the map layers for the AMC CYPRUS Mission enable the following: *OpenLayers WMS* + the areas of your interest e.g. Limassol and Kouris Dam

Zoom In/Out:

To zoom in to the map you can either use the "*+*" icon in the top right corner or click onto one of the pins on the map

Control Panel:

The "*Control panel*" allows you to systematically search for field data by applying different filters. To use the control panel proceed according to the following steps:

1. To show the control panel press the "*+*" icon next to the text "*Toggle control panel*" text in the top left corner. A menu will appear on the right hand side of the screen
2. Choose the filter you want to apply and hit "*Search*" – only the field data requested will now be displayed
   For Example:
   Your team took a photo and added the caption "Shelter". You can choose the "Caption Filter" and enter "Shelter" – all photos with this caption will now be displayed
3. To hide the control panel press the "*-*" icon next to the text "*Toggle control panel*" text. The menu will disappear again

Requesting data

When an image has been uploaded to the GPIP it is initially saved as a highly compressed preview, allowing you to view the photo but only with in limited quality. If you regard the image or part of the image as worthwhile to analyze in detail you can request the non-compressed original image from the user that uploaded it to the GPIP. To request an image or parts of an image proceed according to the following steps.

1. Choose an image and click on it in the main screen, another window (see below) will open displaying the image, the location on the map as well as three menus "*Input Management*" "*Processing*" "*Output Management*"
2. Now go to "Input Management" and click on the icon next to "ZOOM IN"
3. A dropdown menu will appear allowing you to choose "Region (Zoom In)" or "Original Image"
4. If you choose "Region (Zoom In)" a square will appear on top of the photo letting you define the size and the area of the region you want to request. You change this by dragging the

square to the region of interest and by clicking and drawing one of the corners to define the size.

5.	If you choose the region or the full image press the button "*Get data*"
6.	If the user that uploaded the photo is online the parts will automatically be transferred to the GPIP. If the user is currently not online the request will be queued and automatically transferred as soon as the user is online again.

User Tracking

With the GPIP you are able to follow your teams live while they are out in the field, if the "User Tracking" function has been enalbeld on the Android phone (GPFC-M). To track your team with the GPIP procced according to the following steps.

1.	Click on **"USER STATUS"**
2.	An overview map will appear displaying the track as well as the current/last location of users that enabled this function
3.	At the bottom of the page **"ACCURACY"** can be enabled allowing you the view the see how accurate the location of the user is displayed.