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Demonstration App

Deliverable D9.4



URBANFLUXES

URBAN ANTHROPOGENIC HEAT FLUX FROM EARTH
OBSERVATION SATELLITES

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1 INTRODUCTION

1.1 Purpose of the document

This document is a supplement for the Deliverable D9.4 Demonstration App. It roughly presents the URBANFLUXES App, which is an app designed for Android and that can be downloaded for free from the Google Play store at the following link:

<https://play.google.com/store/apps/details?id=com.geok.urbanfluxes&hl=en>

1.2 Definitions and acronyms

Acronyms

URBANFLUXES URBan ANthropogenic heat FLUX from Earth observation Satellites

2 APP PRESENTATION

The app includes 3 main sections. The “Background” section presents the project and its motivations. The “Technology” section explains the methodology used in the project. In particular it is reported how the anthropogenic heat flux can be calculated, the role of the satellite measurements, with a focus on the Copernicus programme, and the type of ground measurements available. The “Results” section shows significant results obtained within the project in terms of land cover maps, land surface temperature maps and urban energy budget components. In order to get the user more involved, this latter section of the app includes interactive sessions. The app has been designed in order to be attractive not only for the scientific community, but also for less expert and young people. For this reason the technical language has been kept as simple as possible and various concepts are conveyed using images, even if the number of images had not to be very high in order to limit the size, in terms of storage and downloading, of the app. The app is designed for various types of devices: laptops, mobile phones, tablets. The development technology has been an hybrid one, compatible for both Android and Apple devices.

