

# Identifying and quantifying ecosystem services (Green Atlas, Atlas Verde)

Proudly presented by  
KC 4C30 and Globe G430



## Potential Climate/ Disaster Impacts addressed and Justification for this Approach

With rising temperatures, heat islands can become a serious challenge and therefore should be taken into account in urban planning and action. The Green Atlas on Ecosystem Services is a web application that identifies where heat islands are located by using satellite remote sensors and image processing, and visualized on maps. In addition, the Green Atlas also provides information about blue and green infrastructure, biological connectivity and more. It allows all users to easily see and correlate data for their decision-making processes.

## Process of Implementation

Similar ideas had been developed by a few local governments. Through the project, the first version of the Green Atlas was issued for the great metropolitan area, focusing in 4 cities (cantons) and 2 interurban biocorridors, creating more detailed information for these prioritized areas, and later on including other cities. To create the Green Atlas satellite images were bought and processed through geographical information systems to create layers of data and calculate indicators of urban ecosystem services. Communication and capacity building activities followed, which demonstrated great interest from local stakeholders and proved the usefulness of this tool for decision-making.

### Project Title

Biodiver\_CITY: Establishing Interurban Biocorridors

### Project Number

2017.9049.2

### Results and Impacts

Online tool to consult about territorial ecosystem services for 31 cantons



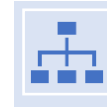
#### TYPE OF APPROACH

Information & Data Management



#### COUNTRY

Costa Rica



#### LEVEL OF INTERVENTION

subnational/regional, city



#### TYPE OF RISK MANAGEMENT

transformation



#### MAIN HAZARDS ADDRESSED

Heat Wave



#### URBAN FUNCTION PROTECTED

Basic existential functions (water, electricity, etc.)



#### SPHERE OF INTERVENTION

socio-political sphere/ governance, environment



#### RESOURCES REQUIRED

N/A



#### COOPERATION PARTNERS

CATIE, SINAC



#### LINKS

[www.atlas-verde.org](http://www.atlas-verde.org)