

# DARCY RIBEIRO UNIVERSITY CAMPUS MAP – 2017- TECHNICAL NOTE

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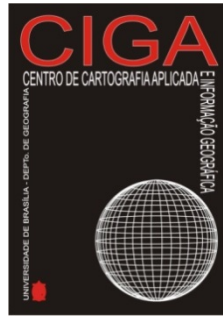
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## **DARCY RIBEIRO UNIVERSITY CAMPUS MAP – 2017- TECHNICAL NOTE**

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### **1. THE CARTOGRAPHY, THE SPATIAL PLANNING SYSTEM AND THE DARCY RIBEIRO UNIVERSITY CAMPUS**

The spatial information regarding the use of territory is one of the many strategies used to answer and to inform about what happened, what is happening and what may happen in geographic space. Therefore, the mapping of land use as a communication tool for the spatial data made significant progress in improving sources of information, especially over the last few decades, with new generation remote sensing products for data manipulation.

At the beginning of the research process, we approach the instruments and the methodology used for the updating the Darcy Ribeiro Campus map. With this study, we strive to increase the knowledge of campus layout, especially about the territorial management.

## **2. THE UNIVERSITY OF BRASILIA (UnB) AND THE CENTER FOR APPLIED CARTOGRAPHY AND GEOGRAPHIC INFORMATION (CIGA – UnB)**

We must not lose the sight that the University of Brasilia (UnB) has become one of the best education and research institution in Brazil, recognized for the quality of its scientific production and academic staff. Following its basic references, the Department of Geography and the Geography Graduate Program at the University of Brasilia had constituted, in 1999, the Center for Applied Cartography and Geographic Information (CIGA). It has a focus on the projects and partnerships in progress, from the integration of the education, research, and attendance to the demands of the civil society.

CIGA has a well-organized physical infrastructure, with basic equipment for the development of activities directed towards the use of geographic tools in the geographic education and the territory planning-management. It is important to emphasize that the Territorial Information System has witnessed a massive data dissemination and has made possible new ways of representing geographic space. However, demands aiming to solve complex problems of the dynamics of civil society are growing. For that reason, cartography emerged as the best discipline to answer and inform what happened, what is going on and what can occur in the territory, that is, cartographic representations allow people to manage the past, the present and the future next to the territory. After all these years of activities, the CIGA emerges as a local, regional and national reference in the field of remote sensing and geographic information systems and stands out in the technical production field.

## **3. CAMPUS MAP UPDATE PROJECT AND INFORMATION BASE CREATION**

The CIGA made a lot of edits on the Darcy Ribeiro University Campus Map (2001 and 2011) and since 2016, we are working on the updating of this map. It involved the following fundamental steps: A. Cartographic Updating (planimetry and toponymy) using

as base data the planialtimetric survey provided by Terracap – GDF (Federal District Government). 2013. We used the Geo Serviço provided by Codeplan – GDF (Federal District Government) – 2016 (orthophoto mosaic) to identify the territorial changes. This process was supplemented by fieldwork and vertical and panoramic photographs captured by Unmanned Aerial Vehicle (UAV) – WLToys. **Figure 01, 02, 03** show these references and the methodological procedures used to reach the proposed in this study.

**Fig. 01**



**Fig. 02**  
**DRONE**



**Fig. 03**  
**CAMPUS MAP UPDATE**



#### **4. MAP DESIGN AND PRODUCTION**

We used the base map of Federal District, Brazil, provided by Terracap – SICAD – 2008. **FIGURE 04** shows an example of the changes caused by the new constructions on the campus.

Fig. 04



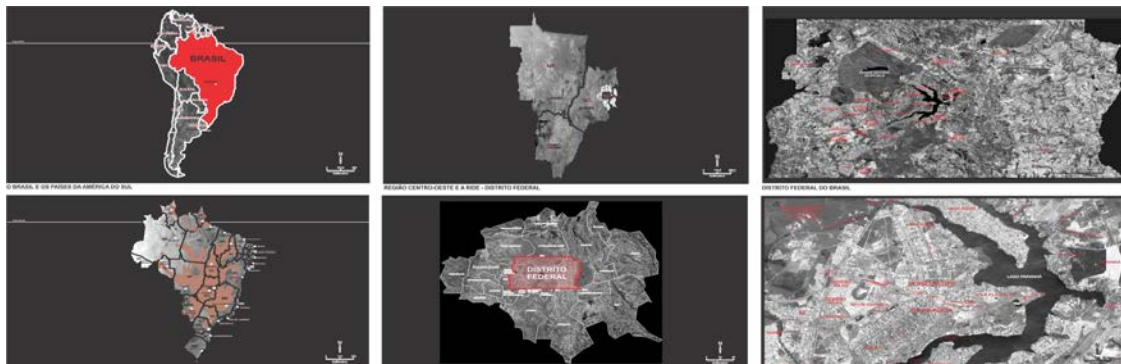
5. LEGEND

These elements are graphically represented in two ways: cartographic conventions and the symbols to outline some basic aspects, such as the boundaries of the Darcy Ribeiro University Campus (Fig. 05). The thematic map is represented at different scales: continental, regional and national. (Fig.06)

Fig.05



Fig. 06





## 7. EXAMPLES OF SOME PANORAMIC PHOTOGRAPHS 360o

### CAPTURE 360-DEGREE PANORAMA



INSTITUTE OF BIOLOGY - IB



CENTRE OF EXCELLENCE IN TOURISM - CET



FACULTY OF LAW - FD



### 8. AN EXAMPLE OF THE USE OF THE CAMPUS MAP IN SPATIAL PLANNING AND MANAGEMENT – AT THE END OF 2016 – AT THE BEGINNING OF 2017.

