SINUPOT

(Information System for Urban Regulations And Planning)

Secretaria Distrital de Planeación Bogota[1], Esri Colombia[2]

[1]Office for Urban Planning Bogota Colombia, https://www.sdp.gov.co/
[2]Esri Colombia, https://www.esri.co/es-co/home

Correspondence to: Jhon. Aunta (jaunta@esri.co) Development team member

1. Motivation and objectives

SINUPOT is a webGIS application based on ESRI technology, it has been designed to allow public access to geographic information, maps and other documents, related to urban and rural planning and the construction rules and laws that apply to the different sectors of Bogota.

Users can find information about reserve areas for roads, public services, public infrastructure, social services, education, among others

Bogotá is a city with more than 7 million inhabitants and more than 2 million of properties, its urban regulations are quite complex and most of the citizens are unaware of it.

The main objective of SINUPOT was to have in a single place all the spatial information related to urban and rural planning of the city and to allow the community to make inquiries on any subject related to city planning. As an answer they can get a visual perspective of the planning policies in wherever place of the city.

As secondary objectives, are:

Colombia has strong policies about public information, so government entities should offer access to the community in different ways and formats, so Secretaría Distrital de Planeación is complying with the law and regulations.

Encourage the use of spatial information in the community interested in that information such as. Real state, communal boards(parish), academic sector and others.

As a development team we got those main purposes and started the usual workflow in a development web project following agile methodology. SCRUM

Then as student of the Geotech Master and professional with some experience in development projects I would like to share with the academy community the result of a project where I has the opportunity to participate as member of the development team.

Also, to show how these projects are received by the community sharing some statistics of the web application.

2. Design

Let us know how your application is designed, what components it contains and how the user can apply it. You can also include a short mock-up here, showing the interface of your developed software.

SINUPOT has a webGIS architecture, most of its components are in the cloud, private-cloud.
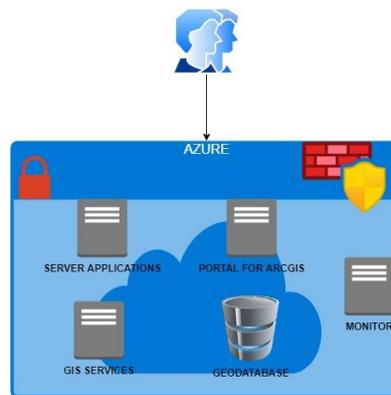
The solution is divided into two main applications: the general geographic webapp and the map gallery.

Access to the main applications map gallery and general geographic webapp is completely public, no user is required.

The operations that users can run are all queries, it is not possible to update or edit information, the main geographic webapp has 15 functionalities or widgets.

In the map gallery users can find mini webapps with configurable options created without coding.

The whole solution includes more than 100 geographic services and more than 300 feature classes or layers
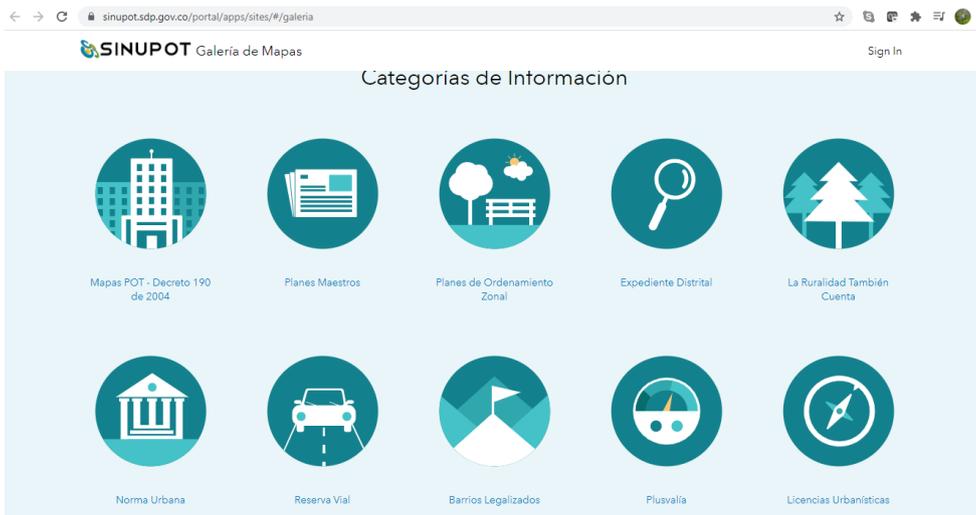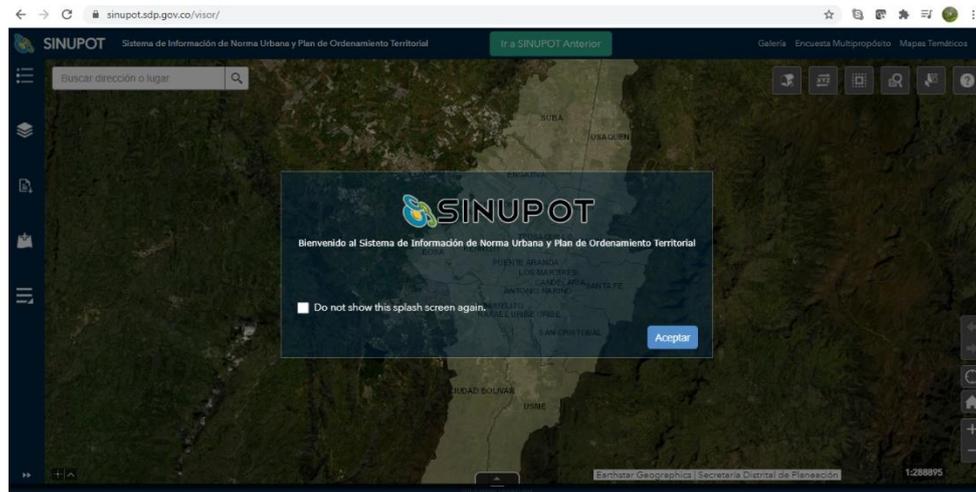
3. Reproducibility

The application is currently in production environment and the url to access is: https://sinupot.sdp.gov.co/visor

Disclaimer: All rights and intellectual property of the application belong to Esri Colombia and Secretaría Distrital de Planeación,of Bogota, as student and interested in Geomundus conference I am offering only to show how ESRI technology works for a custom solution in a specific government entity and how the solution was built.