Leandro Gomes Souza Geographer

Luiz Roberto Arueira da Silva Director of City Information

Pereira Passos Institute - City of Rio de Janeiro







About us

Pereira Passos Institute (IPP) is Rio de Janeiro municipal department responsible for data and knowledge management of the city, being the manager of its corporate GIS.

IPP performs the production, analysis and dissemination of geographical information, into tables, maps, studies and WebGIS application, being considered a department of excellence and national reference in this field.

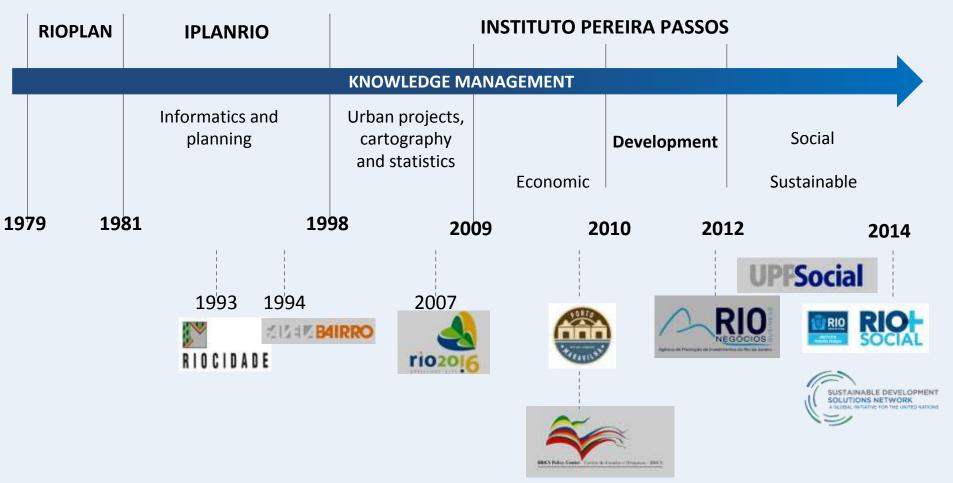
One of its missions is to promote **integration** of information from several sources using geotechnologies, cooperating with other municipal departments, aiming the production of knowledge for more efficient **planning**, **implementing** and **monitoring** of **public policies**.







Timeline



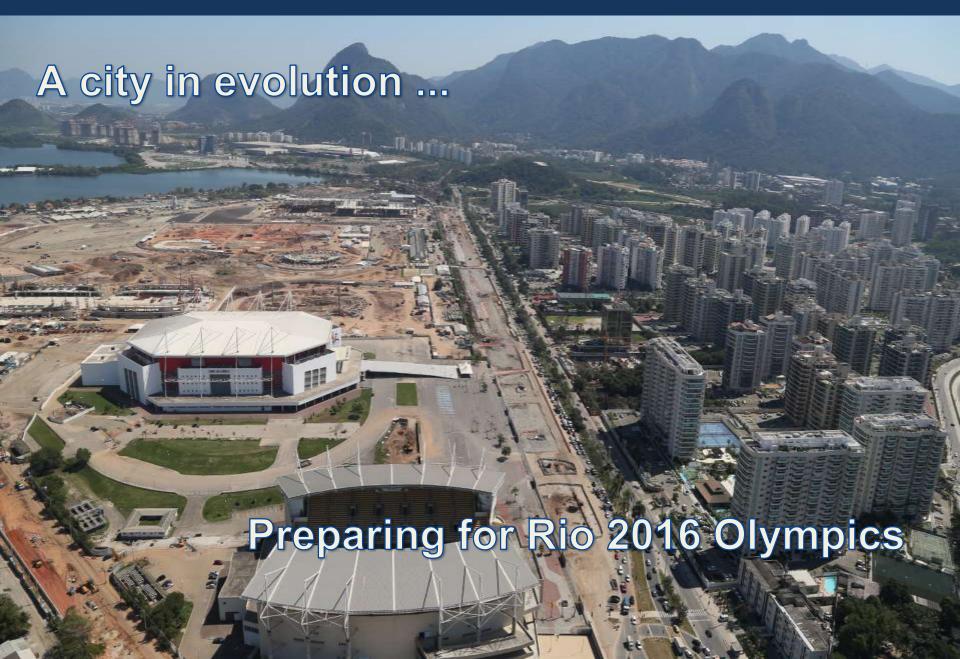








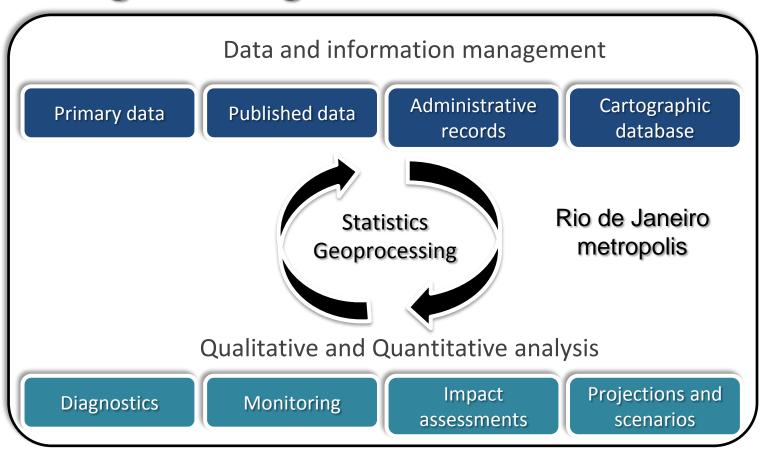








Knowledge management



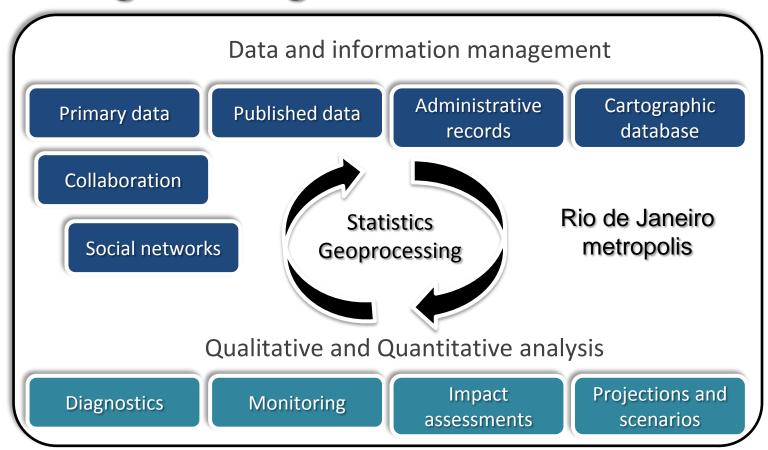
"Smart / Sustainable / Resilient City"







Knowledge management



"Smart / Sustainable / Resilient City"







WebGIS – "Digital Map of Rio de Janeiro"

The **Digital Map of Rio de Janeiro** consists in a group of **WebGIS** applications covering aspects of urban information, divided by themes.

Using the concept of different .xml (eXtensible Markup Language) configuration for the same application, IPP has about 30 applications today, based in the same core application.

Our applications are used for all kinds of demand, including:

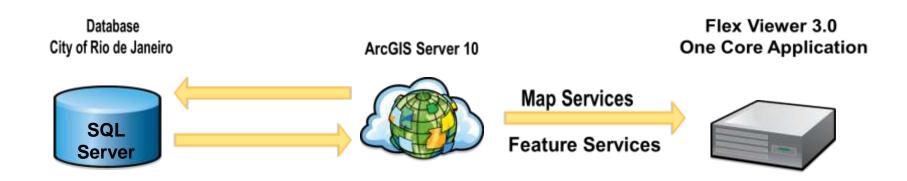
- ✓ Provision of information
- ✓ Provision of data to download
- ✓ Maintenance and updating municipal database







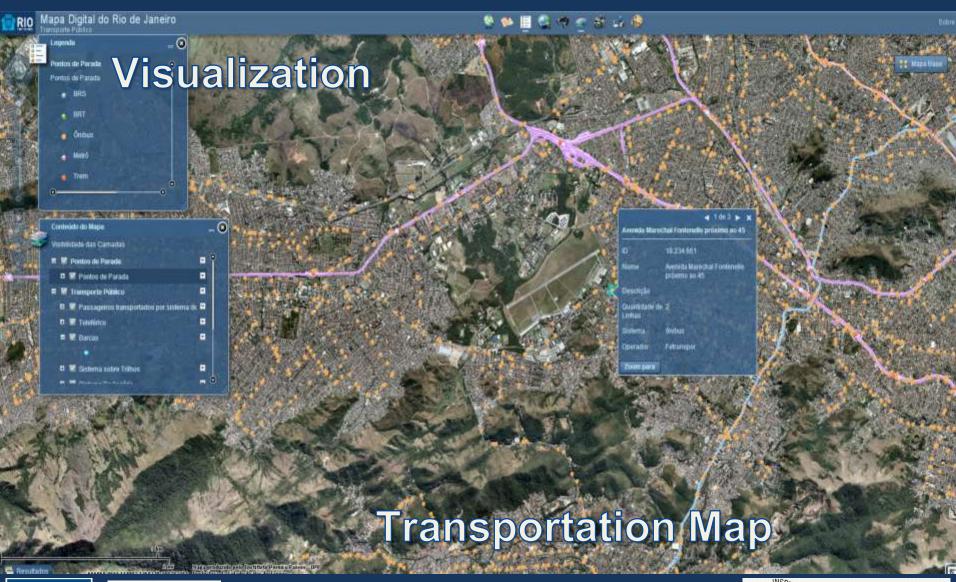
- ✓ Step One Design a single database, eliminating data duplication and ensuring integration between information from different departments
- ✓ Step Two Creating services in **ArcGIS Server** (Map, Feature and Image), set permissions and structure the services according to each departments needs
- ✓ Step Three Structure the application allowing configuration of different .xmls using the same core application







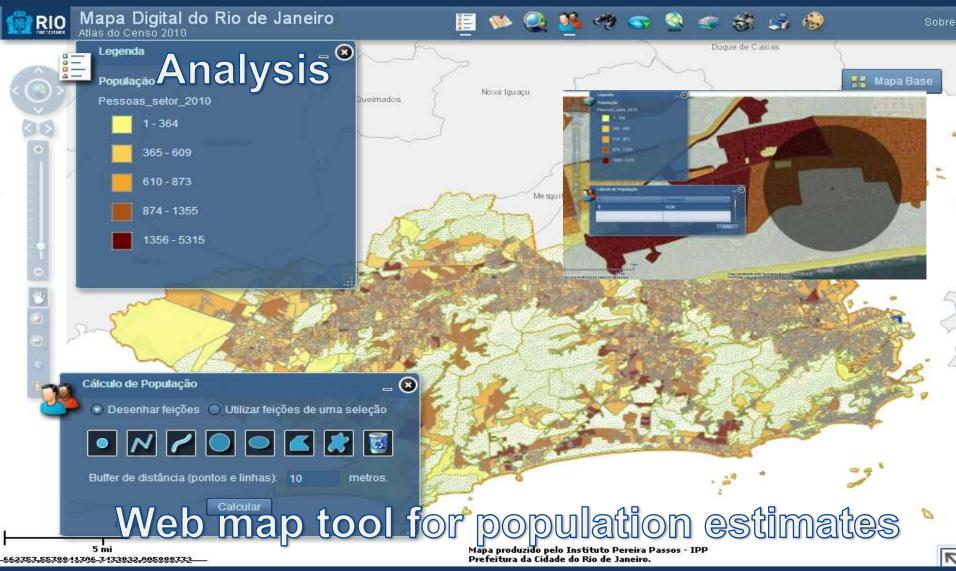
























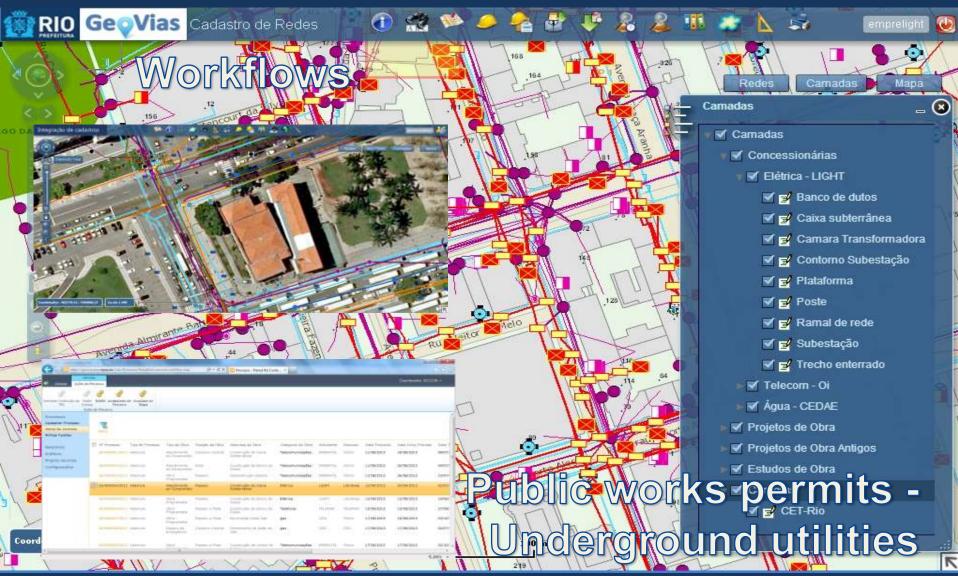


















Municipal System of Urban Information

The Municipal System of Urban Information (SIURB) was developed aiming the consolidation of a corporate database of geospatial information for the municipality of Rio de Janeiro.

The main objective is to improve the **sharing** and **integration** of great volume of information produced, for the purpose of **planning** and **implementing** of **public policies**.

It establish **workflows** and **processes** that facilitate access and use of all data produced in the municipality, including administrative records.

Formally established and regulated with a mayor's decree in July 2014, the system was originally conceived in 2011, in the "Masterplan for Sustainable Urban Development of Rio de Janeiro", among the policies for urban and environmental development.

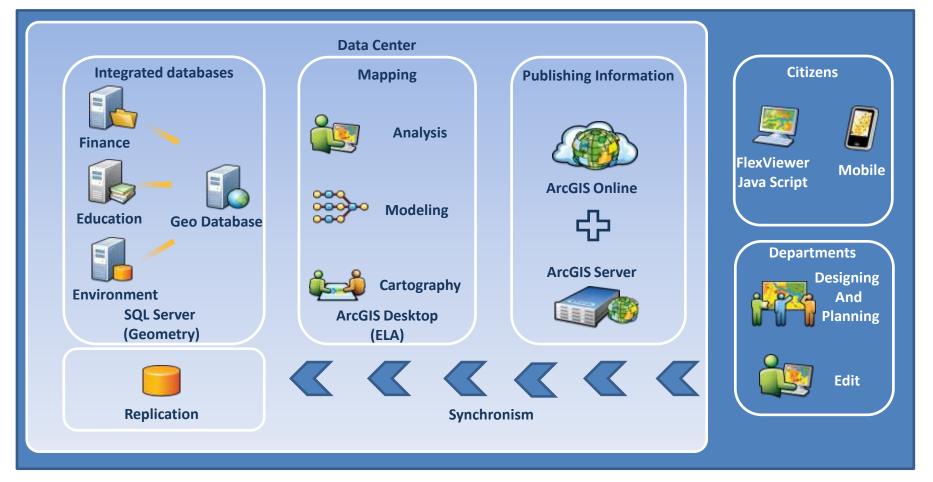
IPP is the coordinator of this information system, articulating it with over 30 different municipal departments.







Architecture









Work platform: ArcGIS Online

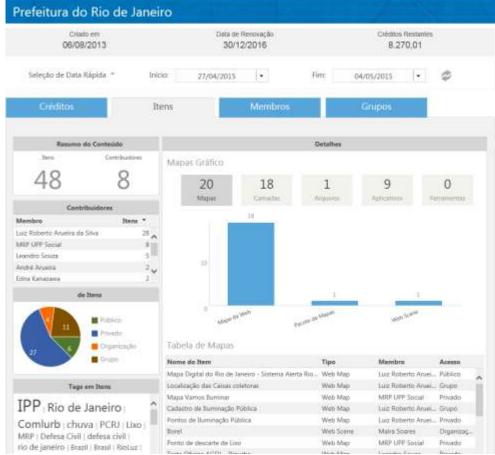








Dashboard of activities









Information dissemination

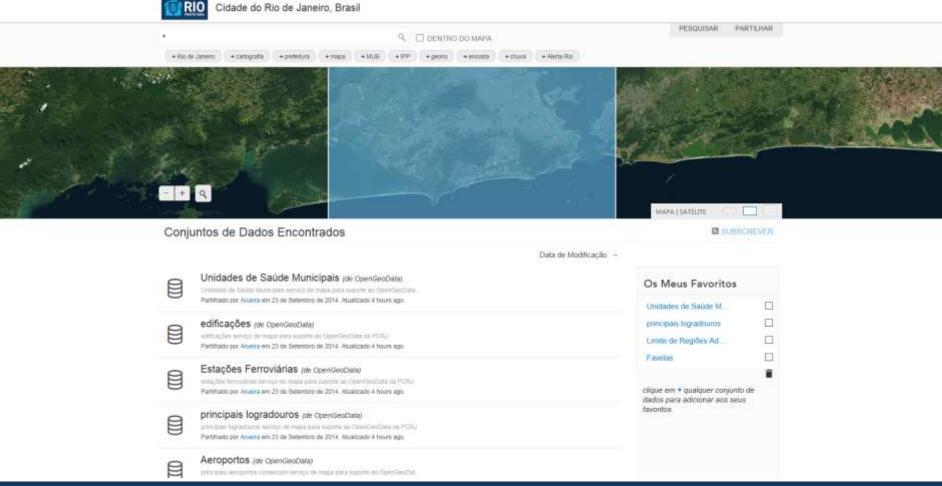








Open Data









Some numbers ...

- 1.815 published contents in "Armazém de Dados" 1.000+ tables,
 346 studies and technical notes
- 5.000+ accesses/month
- Approximately 300 Gb of geographical data and tables
- Approximately 130 map services and geoprocesses published
- 9 orthophotos series: 1999, 2004, 2005, 2008, 2009, 2010, 2011, 2012, 2013
- About 30 Digital Maps published
- New cartographic restitution 1:2000 scale 822 sq.km
- Population benefited: 6.453.682 people







Conclusions

This project is responsible for raising the profile of geospatial in local government, making it "geospatially enabled".

It represents a change of paradigm regarding the way information is produced, disseminating the use of geospatial tools in the municipality, improving communication between departments and successfully improving knowledge of the city in a geographical way.

All this contributes to successful policies aiming sustainable and integrated development of Rio de Janeiro.







Thank you! Instituto Pereira Passos - City of Rio de Janeiro

Leandro Gomes Souza

Geographer leandro.souza@rio.rj.gov.br

Luiz Roberto Arueira da Silva

Director of City Information luiz.arueira@rio.rj.gov.br

Visit our websites: www.armazemdedados.rio.rj.gov.br pcrj.maps.arcgis.com





