

GEOSPATIAL INFORMATION INCORPORATED TO DEVELOP CORPORATIVE SYSTEMS OF BELO HORIZONTE CITY HALL

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PRESENTATION

SCENARIO – BELO HORIZONTE CITY HALL;

\$GEOSPATIAL CHALLENGES ;

*****BHMAP SOLUTIONS;

*****APPLICATION EXAMPLES USING BHMAP.



BELO HORIZONTE CITY HALL

□ OVER 20 YEARS USING GEOTECHNOLOGY



BELO HORIZONTE CITY HALL

***** OVER 350 GEOGRAPHICAL LAYERS

♦ 480 INTERNAL USERS WHO USE THE SPATIAL DATA DIRECTLY.



BELO HORIZONTE CITY HALL

> OVER 80% OF BELO HORIZONTE DATA HAVE GEOPRAPHIC INFORMATION;

MOST OF THE SYSTEMS NEED TO INTERACT WITH A SPATIAL INFORMATION!



CHALLENGES

➢ GEOGRAPHIC INFORMATION SYSTEM (GIS) NEEDS SPECIFICS SKILLS AND MATURITY TO DEVELOP AND MAINTENANCE THE SPATIAL DATA INFRASTRUCTURE (SDI);

► EACH SYSTEM SEARCH THE DATA DIRECTLY FROM THE BASE TYING THE STRUCTURE OF THESE DATAS;

SYSTEMS SUSTENTION WITH GEOGRAPHIC DATA BECOMES RESPONSIBILITY OF GEO;

PRODABEL



➢ DUE TO LACK OF TECHINICAL CAPACITY OR EXPENSIVE COST OF THE SOLUTIONS, THE INTEGRATION WITH GEOGRAPHIC INFORMATION IS REMOVED OF THE SYSTEMS DEVELOPMENT.

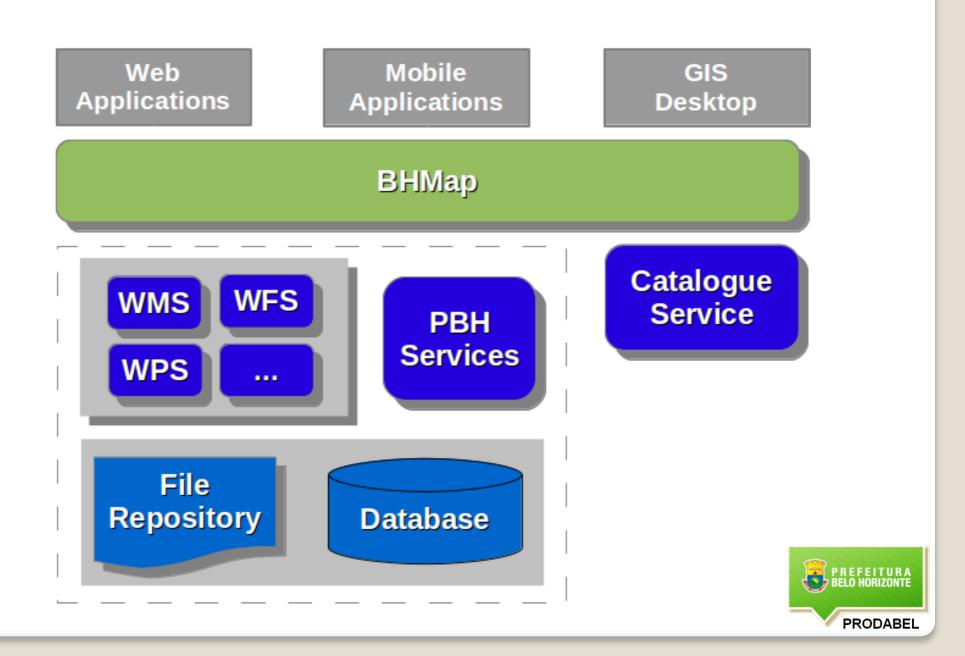




SEPARATING THE DEVELOPMENT AND MAINTENANCE OF SYSTEMS FROM THE COMPLEXITY OF SPATIAL DATA INFRASTRUCTURE (SDI).



ARCHITECTURE



CENTRALIZE THE ACCESS TO SDI;



➤ THE ACCESS TO APPLICATION IS DONE BY A COMPONENT (THE AVAIABLE COMPONENT THROUGH SERVICE, BRINGS SPECIFICS FUNCTIONS ACCORDING TO THE PARAMETERS OF THE REQUEST);





> THE ACCESS TO GIS DESKTOP IS DONE WITH THE USE OF THE PLUGIN;





➢ INTEGRATE AND SIMPLIFY THE ACCESS TO RESOURCES OF SPATIAL DATA INFRASTRUCTURE;





> APPLICATIONS INDEPENDENT OF THE DATABASE STRUCTURE;



> CONTROL OF THE ACCESS TO THE DATA;



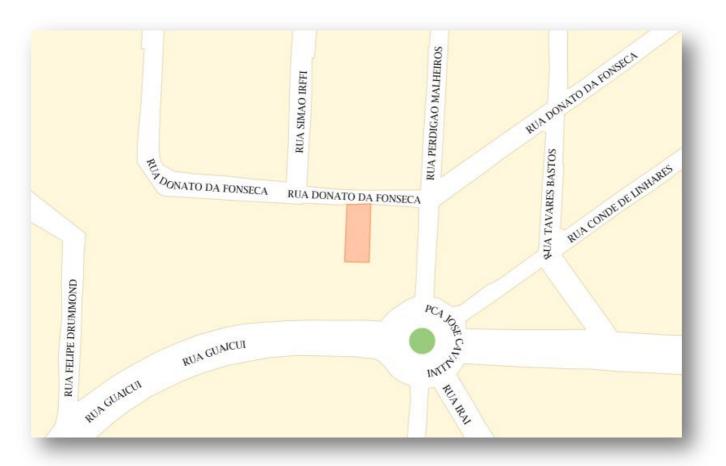
➢ EVOLUTION OF THE SPATIAL DATA INFRASTRUCTURE IS TRANSPARENT TO APPLICATION CUSTOMERS OF BHMAP;



BUILT ON OPEN SOURCE TECHNOLOGIES;

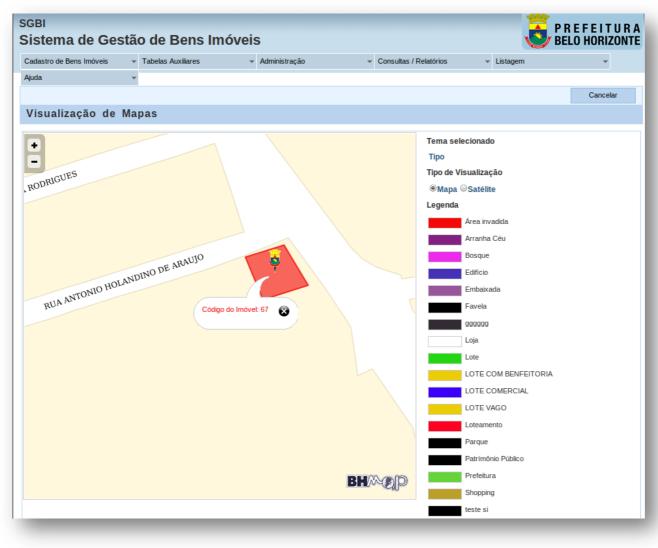






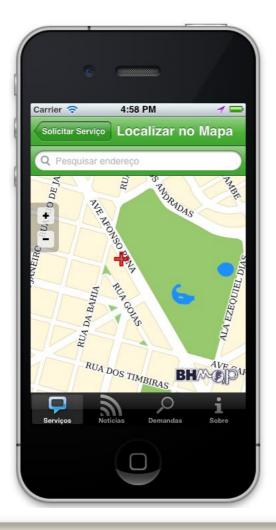


SGBI:













GeoPORTAL:

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|---|---|--|--|
| sentação | Serviços Públicos | Desenvolvedores | |
| viços Públicos | Catálogo de dados Lista dos Dados espaciais, metadados e imagens. | APIs do Geo portal Bibliotecas,Bibliografías e conceitos. | |
| <u>a inicial</u> ogo de serviço ogo de imagem s compartilhados | Visualizador de dados espaciais Visualiza Dados espaciais. | Noticias e informações. | |
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| senvolvedores | Fale conosco Comunicação com o gestor e administradores. | | |
| o Geo portal | | | |

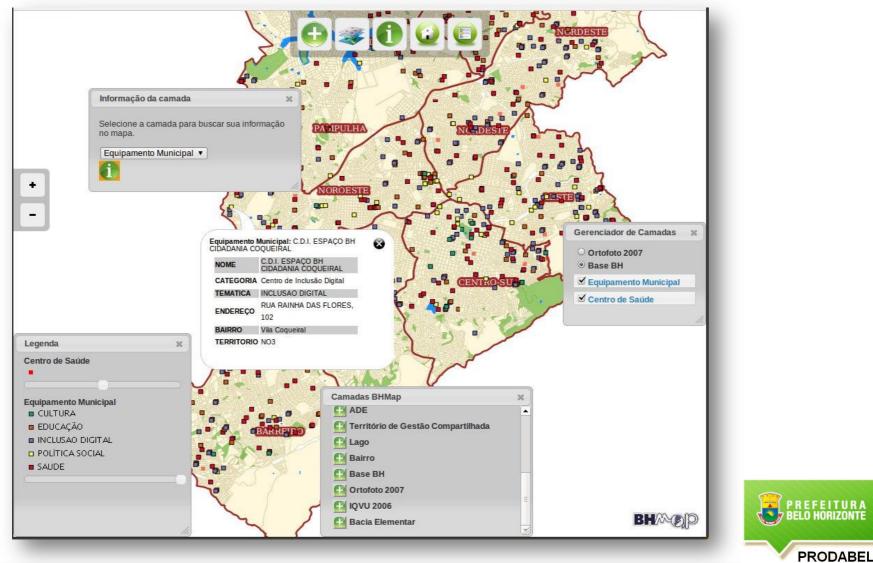
PREFEITURA BELO HORIZONTE

PRODABEL

SHARED MANAGEMENT WEBSITE:



WEBMAP VIEWER:



BHMap – FINAL CONSIDERATIONS

✓ THE SEPARATION OF THE DEVELOPMENT OF THE SYSTEMS WITH THE INTEGRATION OF SPATIAL DATA INFRASTRUCTURE, THE GEOGRAPHIC AREA CAN FOCUS ITS EFFORT TO SUPPLY AND IMPROVE THE AREA;

✓ IT SIMPLIFIES THE INTEGRATION OF THE APPLICATIONS WITH SDI.





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