



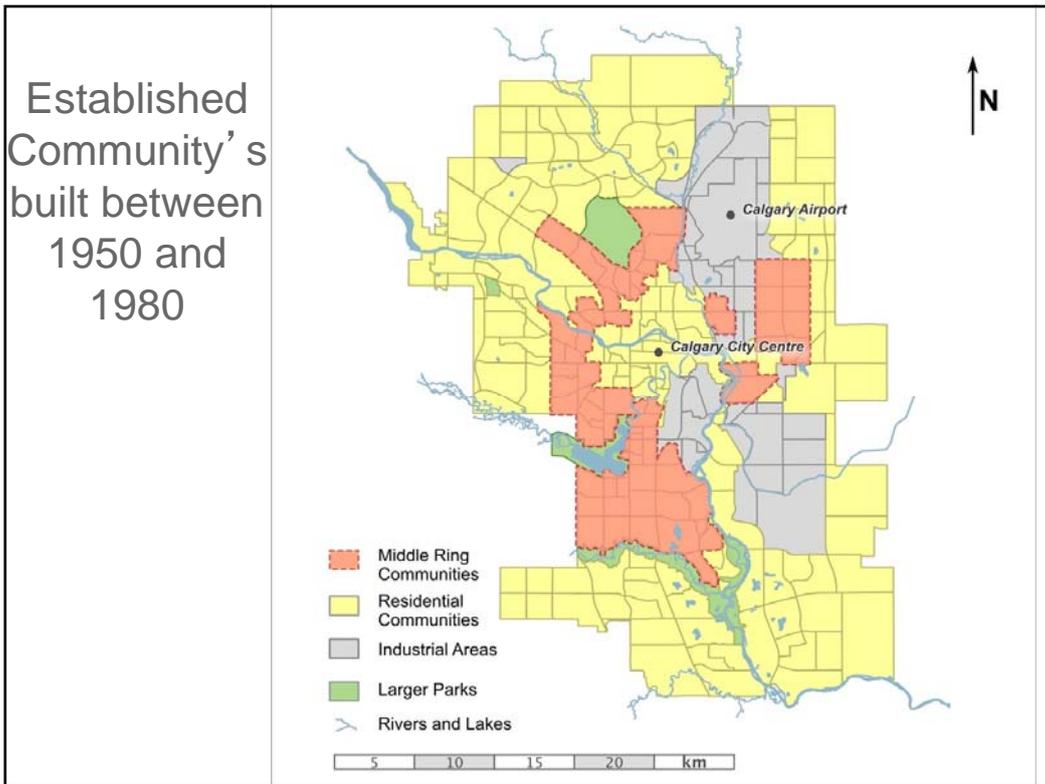
PlanYourPlace

Merging Social Networks and Participatory GIS for
Participatory Planning

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Outline

-  Intro - Context - Goals
-  What planners want?
-  Design considerations
-  Proposed architecture
-  Challenges
-  Discussion



What Planners Want?

 Adopted an e-participation perspective (Smyth 2001)

-  Informing citizenry
-  Discussion
-  Ranking
-  Sketching/modifying
-  Evaluating
-  Sharing



What Planners Want?

 Adopted an e-participation perspective (Smyth 2001)

 Informing citizenry

 Discussion

 Ranking

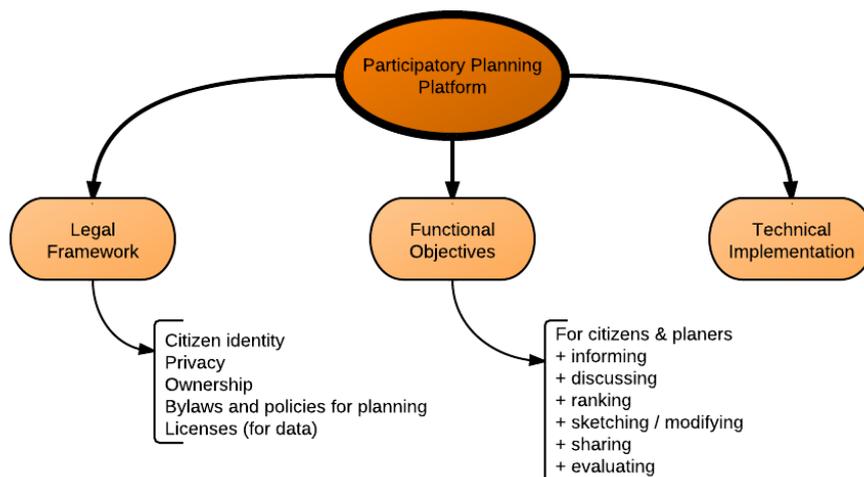
 Sketching/modifying

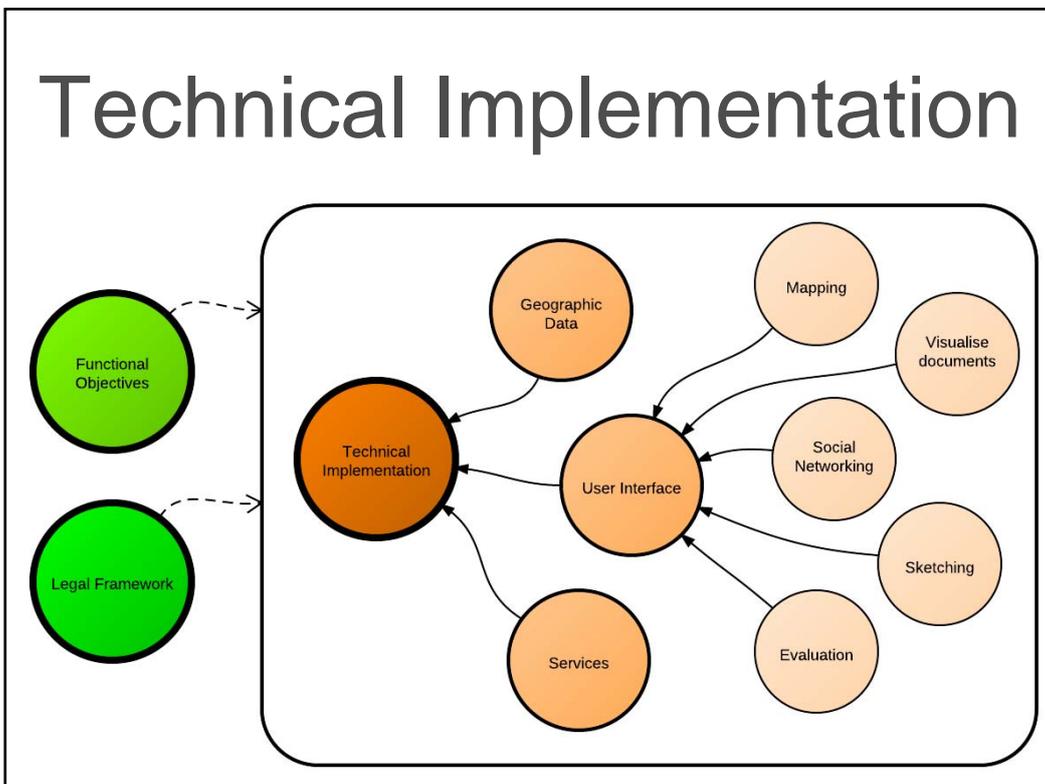
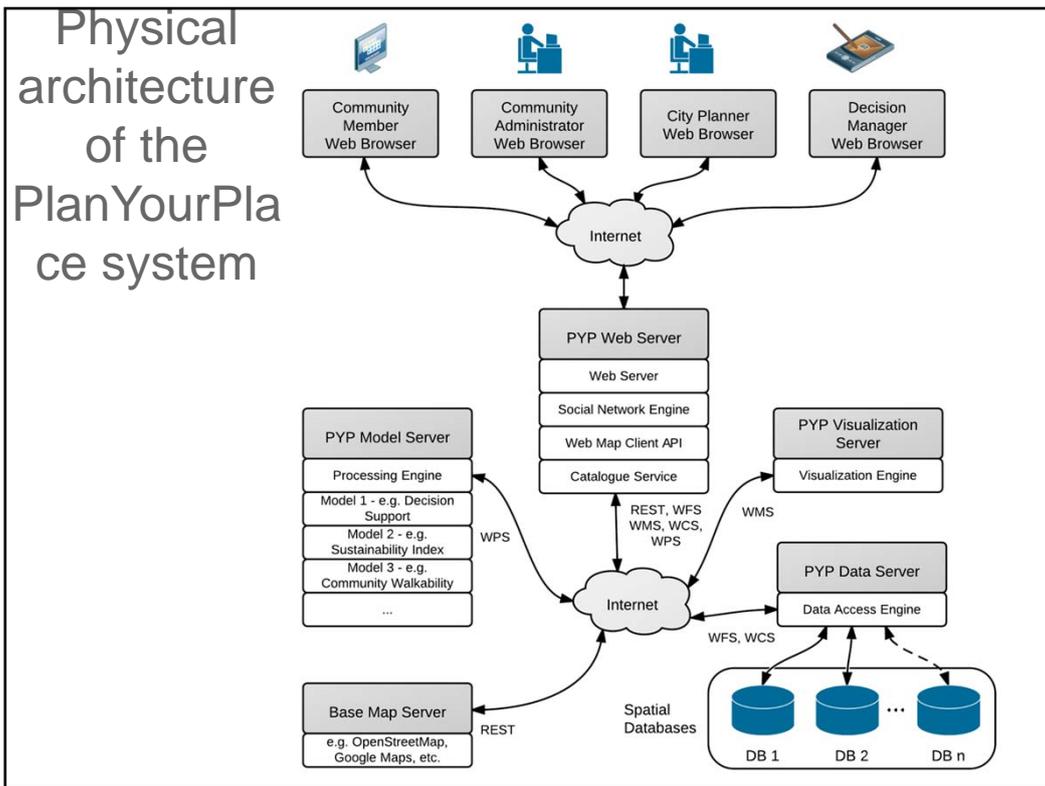
 Evaluating

 Sharing



Conceptual Framework





State of the Art

| Web-based PPGIS Platform | Reference | User Actions | | | | | | Map Component |
|--------------------------|-------------------------------|--------------|------------|------------------|-----------|-------------------|---------------------|------------------|
| | | informing | discussing | ranking & voting | sketching | evaluation models | Sharing of sketches | |
| Virtual Slaithwaite | Kingston <i>et al.</i> , 2000 | ● | ● | ○ | | | | GeoTools |
| Common-GIS & Dito | Voss <i>et al.</i> , 2004 | ● | ● | ● | | | | Common-GIS |
| GeoDF | Tang 2006 | ● | ● | | ○ | | | ArcIMS |
| ArguMap/ArgooMap | Rinner <i>et al.</i> , 2008 | ● | ● | ○ | | | | Google Maps |
| Canela | Bugs <i>et al.</i> , 2009 | ● | ● | | | | | Google aps |
| MapChat | Hall <i>et al.</i> , 2010 | ● | ● | | ○ | | | ka-Ma |
| Virtual Globe | Wu <i>et al.</i> , 2010 | ● | ● | | | ○ | | GeoGlobe |
| SISAUSD | Amiran <i>et al.</i> , 2010 | ● | | | ○ | | | WMS/WFS services |
| WebGIS | Pirotti <i>et al.</i> , 2011 | ● | | | ○ | ○ | | MapScript |

● Full support; ○ Partial support

Challenges



Development of education content delivery approach for that promotes learning for enjoyment



Development of a user interface that is intuitive and usable for all users



Development of sustainability metrics that are understandable to, and resonate with community members



How should sketching be developed? Drag & drop or freehand?

Conclusions

-  Platform development should adhere to the principles of user-centred design
-  Social networks possess a lot of the functionality that we believe a participatory planning platform should realize
-  Functional requirements for implementation follow that of a Spatial Data Infrastructure
-  The need for research focusing on UCD for participatory GIS, sketching, visualization, assessment tools, ...

Thank you



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Affiliates



GeoDiscover Alberta



Questions?