Solar PV Finder Selecting and Reporting Solar Installation Sites in Portland



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Background















Data - Source

SOLAR WOREGON

- Existing Solar Installations in Oregon
- 2010 Solarize SW Portland Installations

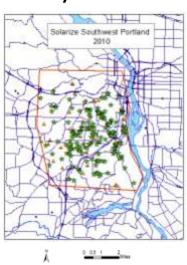
RLIS

Taxlot (Nov. 2010)



Data – Study Area





Data - Conversion



Selected Lots

• SFR

Survey Area

Existing Solar: 37
New Solar: 155
No Solar: 35,264
Total SFR: 35,456

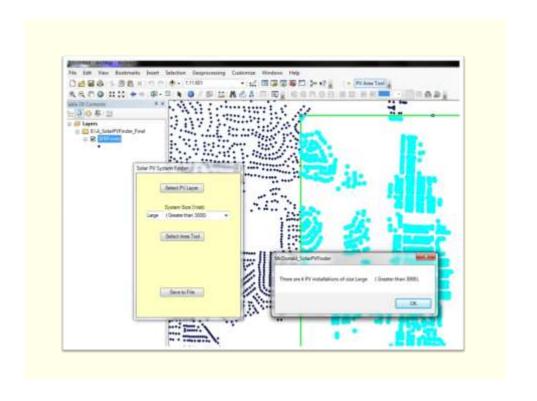
Add-in Objectives

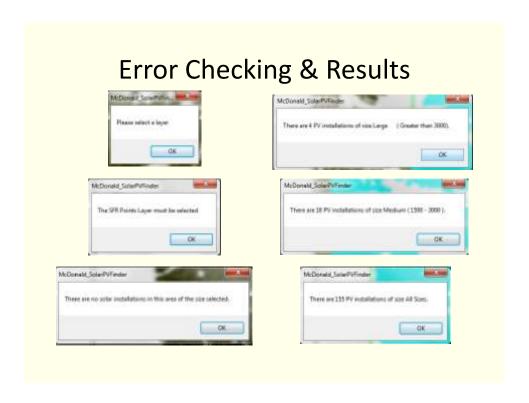
- Count number of solar installations in selected area.
- Filter by solar installation size.
- Produce report.



GUI Design







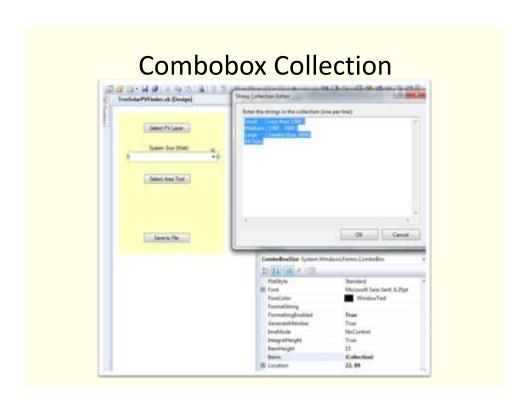
Borrowed Code

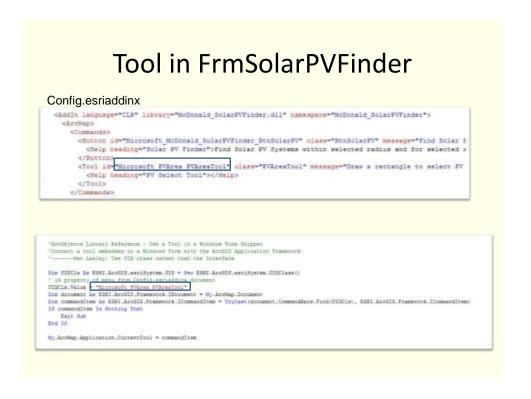
- Lab 3 Shortest Path (Dijkstra)
 Save File
- Lab 5 Polygon Area Tool Rectangle selection
- Exercise 7

Layer name & FindField

• ArcObjects Library Reference

Use tool in a Windows Form





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Challenges

- Connecting to a tool from a dockable window
- Accessing ComboBox from Tool



Future Enhancements

- Check boxes to include other fields in the saved file
 - Year Built
 - Owner name
 - Square footage of home

