

Municipal Official Plan Policy Areas

Mapping Growth and Planning for Development



Planned Growth vs. Actual Growth





We want:

An accurate benchmark of population and dwelling information, which:

- Can be shown in ArcGIS
- Aligns with OP policy areas
- Can show density
- Is useful for other projects
- Has legible names





Why did we choose CDP?

Ability to request custom geographies

Past successes

Ability to drill into results

Digital-to-digital workflow



Workflow



The Plan

Review

- What we have
- What we need



Explore

- Discuss Options
- Find Geographies





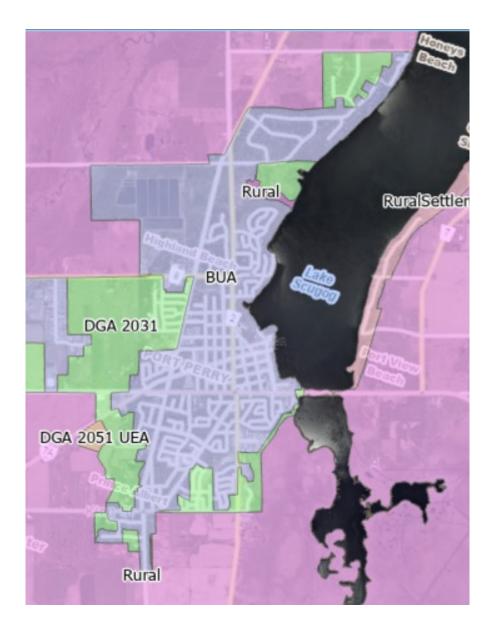
Submit

- Submit to CDP
- Map Results



Assemble

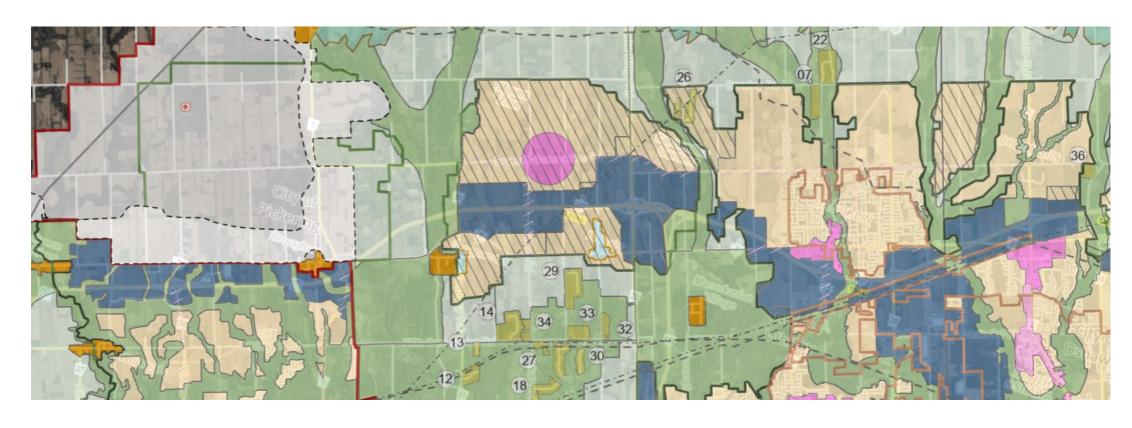
- Build Models
- Confirm Outputs





Starting Point: Official Plan Policy Areas

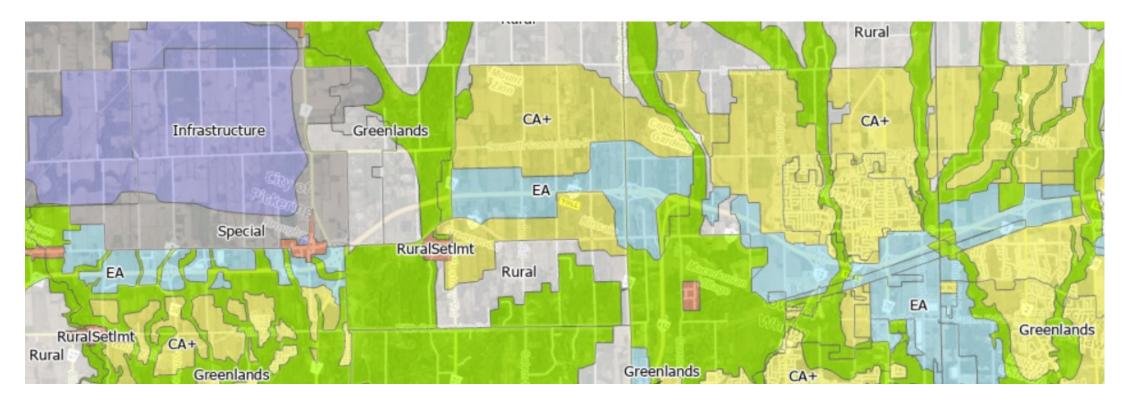
 Dissolving OP Designations by common residential permissions to reflect "Designated Greenfield Area" definitions





Simplify: Joining and Splitting

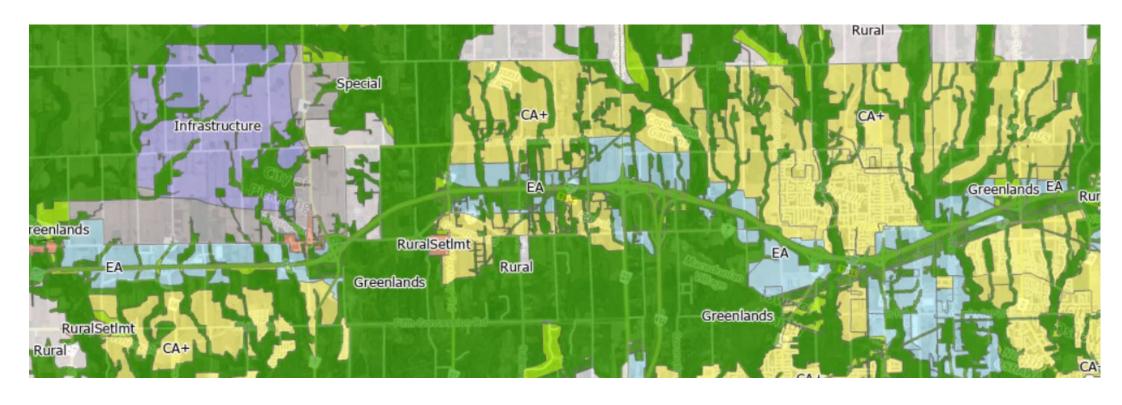
- Decide which dimensions to use
- Simplify designations into groups based on needs





Exclusions from other Sources

Identifying Environmental and Utility areas takeouts





Final Policy Areas

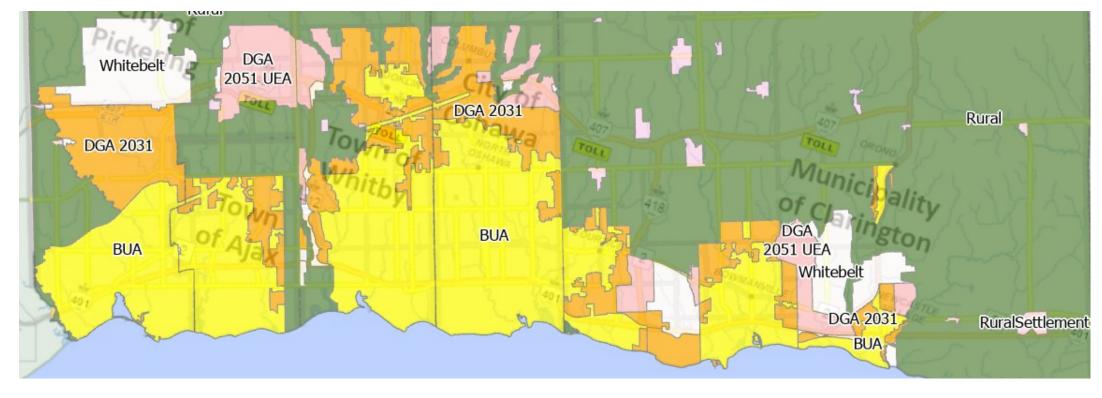
We can submit an earlier step to CDP if needed





Example: Simple High-Level Dissolve

Sequential, Orderly, and Phased Development





Example – Merging Layers

"Strategic Growth Areas" from several different layers





Reviewing Data Tables

Looking for suppression issues and accuracy errors

		Review Notes		Pop 2A Tot	QC_POP_PRIV - (
110 000105	Hamlets - VVIITII and POIT BOISTER (TOWNSHIP OF BROCK)		FALSE	290	290	115
111 000106	Urban Area - Whitby (Town of Whitby)	2nd entry - 2nd polygon at Hwy2/Lakeridge	FALSE	260	260	90
112 000107	Urban Area - Bowmanville (Municipality of Clarington)		FALSE	12625	12625	3950
113 <mark>000108</mark>	Urban Area - Orono (Municipality of Clarington)		TRUE	40	40	15
114 000109	Urban Area - Courtice (Municipality of Clarington)		FALSE	4515	4515	1385
115 <mark>000110</mark>	Urban Area - Oshawa (City of Oshawa)	error	FALSE	25925	25920	7445
116 <mark>000111</mark>	Urban Area - Cannington (Township of Brock)	error - BUA 1945 + DGA 60	TRUE	75	75	25
117 <mark>000112</mark>	Urban Area - Sunderland (Township of Brock)	error - BUA 955 + DGA 530	FALSE	535	535	170
118 <mark> 000113</mark>	Urban Area - Beaverton (Township of Brock)		FALSE	640	640	190
119 <mark>000114</mark>	Urban Area - Ajax (Town of Ajax)		FALSE	24025	24025	6355
120 <mark>000115</mark>	Urban Area - Whitby (Town of Whitby)		FALSE	14575	14570	4255
121 <mark>000116</mark>	Urban Area - Newcastle (Municipality of Clarington)		FALSE	1680	1680	500
122 <mark>000117</mark>	Urban Area - Port Perry (Township of Scugog)	error	FALSE	875	875	290
123 <mark>000118</mark>	Urban Area - Darlington Nuclear Station (Municipality of C	larington)	TRUE	5	5	5
124 <mark>000119</mark>	Urban Area - Pickering (City of Pickering)	error	FALSE	3380	3380	1050
125 000120	Urban Area - Uxbridge (Township of Uxbridge)	Error - 10k+	FALSE	800	745	280
126 <mark>000121</mark>	Urban Area - Orono and Newcastle (Municipality of Claring	gton)	FALSE	1710	1710	505
127 000122	Urban Area - Cannington and Sunderland (Township of Br	error - see Cannington,	FALSE	605	605	190
128 <mark>000123</mark>	Urban Area - Darlington Nuclear and Courtice (Municipality of Clarington)		FALSE	4515	4515	1385
129 000124	WB_C_4 (Bowmanville-Newcastle Urban Separator North)		FALSE	140	140	50
130 <mark>000125</mark>	WB_C_5 (Bowmanville-Newcastle Urban Separator South)		FALSE	105	105	35
131 000126	WB C 3 (Bowmanville E and Newcastle SABE)		FALSE	250	250	100



Receiving Census 2021 Data

Confirm and join back to GIS layers

4	Α	В	С	D	Е	F	G	Н
1	OBJECTID	Municipality	Settlement	Туре	Name	Location	Shape_Length	Shape_Area is
2	1	Scugog	Port Perry	BUA	BUA_S_01		38975.15311	10035195.07
3	2	Uxbridge	Uxbridge	BUA	BUA_U_01		16673.43347	6271442.181
4	3	Ajax	Ajax	BUA	BUA_A_01		60910.37739	36384391.61
5	4	Pickering	Pickering	BUA	BUA_P_01		51602.05336	47924504.78
6	5	Whitby	Whitby	BUA	BUA_W_01		93026.0983	56312107.64
7	6	Oshawa	Oshawa	BUA	BUA_O_01		65032.92018	72351863.58
8	7	Clarington	Orono	BUA	BUA_C_01		9918.202517	1579376.973
9	8	Clarington	Courtice	BUA	BUA_C_02		48697.16736	15312501.67

Census 2021	Durham GIS Code	Total - Occupied private dwellings by structural type of dwelling - 25% sample data		Semi-detached house	Row house	Apartment or flat in a duplex	Ap buil few sto
Ontario - Total 00000 (3.8%)	Ontario (All)	5491205	2942745	306805	507445	176175	i
Durham (Census Division) 00000 (2.9%)	Durham (All)	243050	160765	13145	27300	8810)
Durham - BUA_S_01 00000 (1.0%)	BUA_S_01	3450	2715	140	80	55	;
Durham - BUA_U_01 00000 (3.8%)	BUA_U_01	4240	2915	75	325	145	i
Durham - BUA_A_01 00000 (1.6%)	BUA_A_01	32880	20735	1860	4740	1315	i
Durham - RUA P 01 00000 (2 1%)	RIJA P 01	31045	17905	2450	4805	1750)



Mapping Results

Census statistics in ArcGIS features!



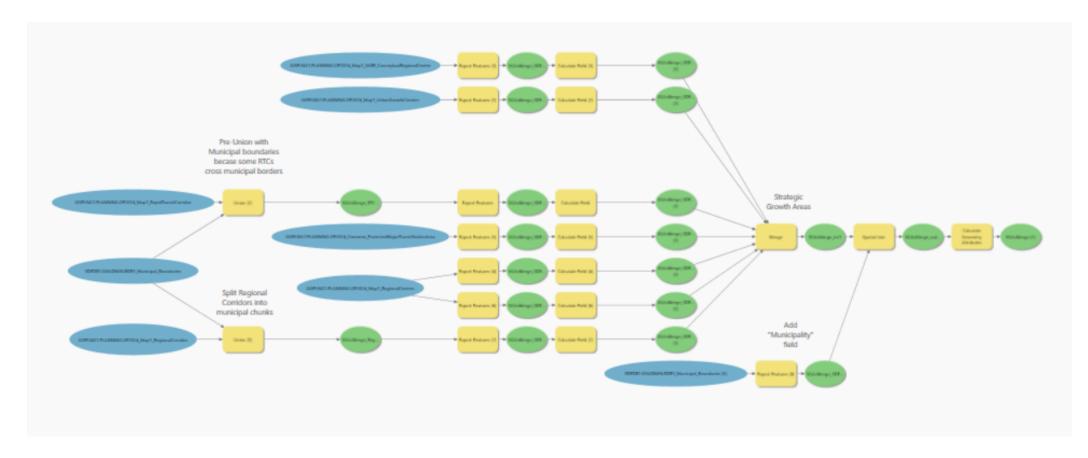


Challenges



Documentation, Repeatability, Transparency

How I Learned to Stop AdHoc-ing and Love ModelBuilder





Overlapping Policy

This area is:

- Protected Major Transit Station Area
- Within the Community Area
- Split by the Built Boundary
- Within the 2031 Urban Area
- Within the 2051 Urban Area
- In 1 of 4 Urban Settlements in the same Municipality
- Inside the total non-Greenbelt Area

Lesson Learned: Also submit aggregated / dissolved layers

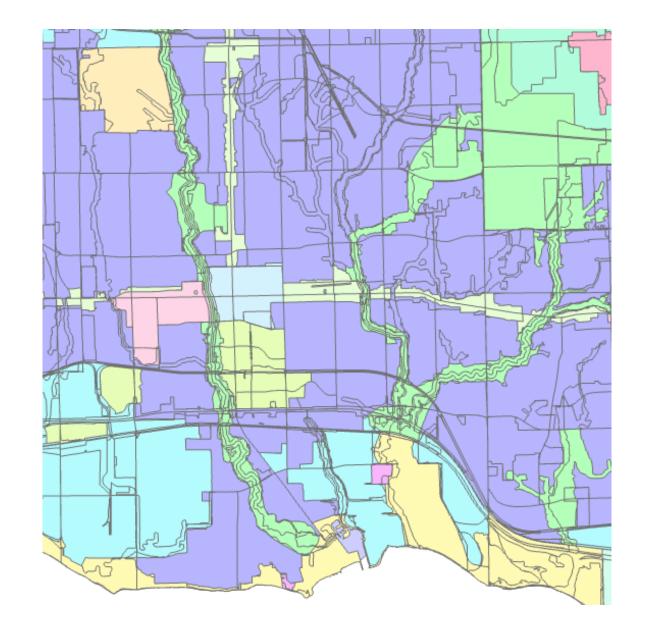




Precision and Suppression

- OP maps vs. "block-face"
- Hamlets and other small geographies
- Vanishing Returns on finegrain analysis

Lesson Learned: More layers, fewer polygons



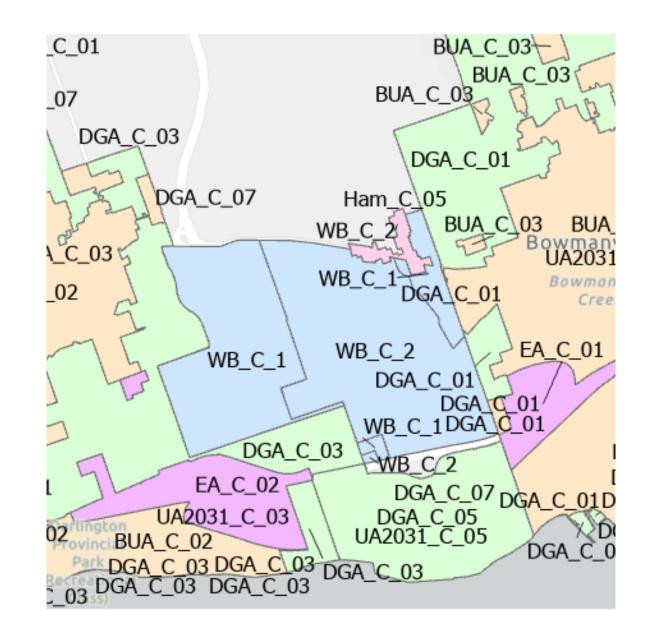


Challenges: Data Overload

- Overlapping Polygons
- Too many polygons
- Confusing names

Lessons Learned:

- Use descriptive label names, establish conventions
- Limit request to what you need, not what you want



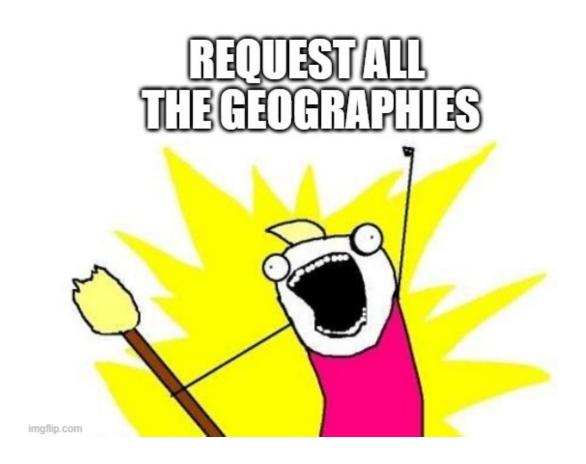


Challenges: Scope Creep

Wouldn't it be nice if we could add ALL the things?

- Takes more Time
- Costs more Money
- Increases Complexity

Lesson Learned: request what you need and have now; save the rest for later.





Shifting Policy and Legislation

- Anticipating OP Reviews
- Waiting on Amendments
 Lesson Learned: Focus on what's currently important.
- What policies are in effect now?
- What questions do you need to answer now?

Bill 23: Whose OP is it anyway?





Next Steps



Thank You!

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