Course Unit:	PLAN10092 – Applied Projects	Level: 1
Module Convenor:	Dr Ranford A. Acheampong	20 Credits
	Baseline Analysis Brief	

Weighting: 60%
Length: Max. 2,000 words (include word count on submission)
Hand-in date: Uploaded to Turnitin (Baseline study) BEFORE 3pm on Thursday 7th April 2022

The assessment

Your baseline analysis report should focus on a particular topic that you have identified through the analysis of a range of data sources. This will include producing MS Excel-based data analysis, presentation and statistical analysis; ArcGIS PRO choropleth mapping, overlaying other data layers on top of your base map (i.e. using the overlay technique in ArcGIS PRO), and undertaking spatial analysis (e.g. buffering and intersection / overlay) where appropriate.

The analysis should be undertaken at what is called the **OA level**[i] for the **Parish of Wilmslow**. Your analysis should be put into context and examine how this compares to the whole of the Cheshire East Council area.

What should your baseline analysis include?

I have indicated approximate word count for each section below, but this is only a guide and not prescriptive.

Introduction (~ 300 words)

Set out what it is that you are focusing on in your baseline report, what datasets are you analysing and why? The introduction should also set out the scope of what you are doing so the reader knows what to expect.

Basic facts and figures (~ 300 words)

You need to start with a simple map of Wilmslow to show where it is in relation to the wider region. What is the population, summary of the people, place, environment etc. to set the context within which your analysis sits? Can you produce any infographics? Is it appropriate to provide some summary statistics using Excel, such as bar charts, scatter plots to visualize your data? Are there any correlations in your data?

Baseline maps (~ 400 words)

Map out some of the basic spatial information for your chosen topic, make sure the maps are legible, i.e. can they be read easily? Maps should not be any less than ½ page of an A4 sheet, any smaller and they cannot be read or interpreted by the reader.

GIS analysis (~ 400 words)

Building on from the previous section, can you identify any spatial patterns in your data? Are there any relationship(s) when you overlay different types of data?

Conclusions (~ 300 words)

What are the key issues that you have identified? Summarise the key findings. What are the problems you have discovered? What potentials exist to address those problems?

Next steps (~ 200 words)

What ideas do you have for the second part of your assignment? Has the baseline analysis identified anything interesting to study further?

In all cases, the text is there to supplement and support the visual analysis. Have you used photographs and other information to support your analysis where appropriate?

Remember to set the DPI to 600 when exporting your maps from ArcGIS PRO to insert in to your report!
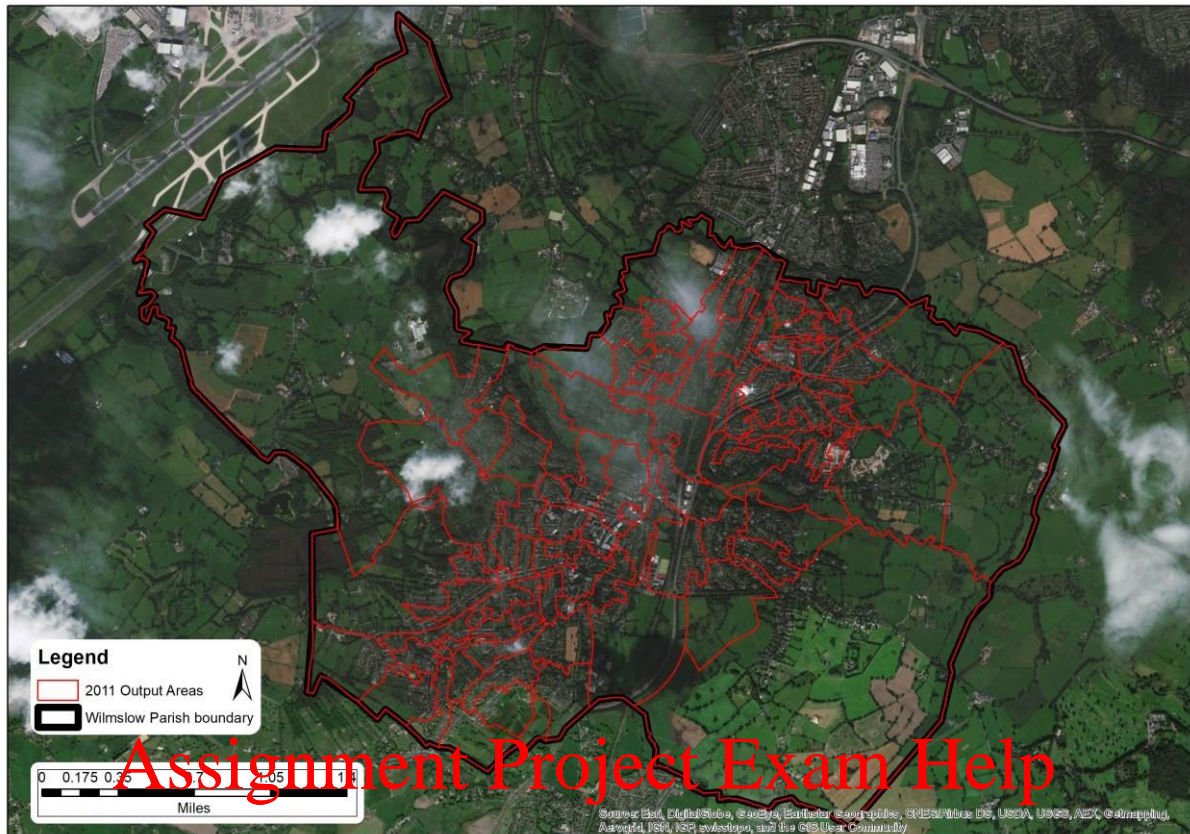
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[i] **List of Wilmslow Output Area (OA) Census codes**

ID	CODE	ID	CODE	ID	CODE	ID	CODE	ID	CODE
1	E00093806	18	E00094136	35	E00094149	52	E00174403	69	E00093835
2	E00093805	19	E00093803	36	E00093767	53	E00093871	70	E00094147
3	E00093884	20	E00093882	37	E00093771	54	E00093776	71	E00093769
4	E00094141	21	E00093877	38	E00093801	55	E00093934	72	E00093941
5	E00094144	22	E00174341	39	E00093880	56	E00174342	73	E00094138
6	E00093765	23	E00094146	40	E00093940	57	E00093778	74	E00093808
7	E00093878	24	E00093876	41	E00093766	58	E00093773	75	E00093768
8	E00093780	25	E00093831	42	E00093939	59	E00093933	76	E00094137
9	E00093879	26	E00094139	43	E00093938	60	E00093811	77	E00093832
10	E00093810	27	E00093834	44	E00093802	61	E00093935	78	E00093813
11	E00093800	28	E00094148	45	E00093883	62	E00093774	79	E00093828
12	E00093881	29	E00093812	46	E00093782	63	E00093804	80	E00093775
13	E00093875	30	E00093807	47	E00094135	64	E00093885	81	E00093781
14	E00093872	31	E00093886	48	E00093809	65	E00093799	82	E00093814
15	E00093779	32	E00094143	49	E00093777	66	E00093936	83	E00093772
16	E00094145	33	E00093827	50	E00093937	67	E00093874	84	E00093870
17	E00093942	34	E00094142	51	E00093770	68	E00093873		

Maps of the 84 Wilmslow OAs

Legend

2011 Output Areas

Wilmslow Parish boundary

0 0.175 0.35   Miles

N

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

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