



TRANSPORT PLANNING TECHNICIAN

END POINT ASSESSMENT PROJECT BRIEF B

PROJECT TITLE

Reviewing existing data sources and establishing a collection programme to a given brief. Note that the brief will be altered slightly for each candidate so may not exactly reflect the contents below.

PROJECT SCENARIO

This end point assessment project involves consideration of the data required to update a model of a town for a particular purpose.

This document and the resources listed below are available from (link). It is strongly recommended that you review all of the information provided and this project brief carefully before starting your project proposal.

PROJECT BRIEF

The most recent model of Rexshire is now 8 years old, and consists of two peak hours (8am – 9am and 5pm – 6pm) and one average inter-peak hour (10am to 4pm). Rexshire Council wishes to update the model, to test the following scheme (given as an example):

- A freight reduction scheme which makes the central Residential Area access only for freight (greater than 3.5 tonnes)

The client wishes all the data collection to take place between October 1st and 31st December 2018. The budget for the data collection is £35,000 (may differ). This does not include the budget or the time required to process the given data, or data checks.

A large number of data have been collected over the past 10 years. These are illustrated in the table below (may be altered).

As you will see, data falls into the various categories, has various levels of quality, and has been collected at different times.

Main Tasks:

Using appropriate modelling guidance and the information provided, your main tasks are as follows:

1. Review the existing data collection to see which parts, if any, are appropriate for the task. Please give reasons for the inclusion or exclusion of each data source.
2. Establish which new pieces of information are required and their location, type and cost.
3. Create a proposed schedule of data collection, when each data is going to be collected and how much it will cost using the figures in Appendix 3 and Appendix 4.
4. Present your work in a report (around 10 pages), ensuring that you justify your conclusions and refer to guidance. You may make appropriate use of your own appendices for detailed calculations or diagrams.
5. Indicate clearly what strengths, weaknesses and compromises are within the proposed schedule and the assumptions you have made.
6. Prepare a presentation justifying the approach you have taken.



PROJECT OUTPUTS AND DELIVERABLES

- Project Brief Outline – Introduction
- Full Project Report – including schedules, plans and diagrams (10-15 pages)
- Project Presentation Slides & Materials (e.g. poster, models)
- Supporting Documentation – Appendices and list of Key References

RELEVANT SKILLS

- Design of transport surveys
- Planning and Schedule of Workload
- Awareness of financial implications/budgets
- Data Collection Skills
- Analytical and Data Processing Skills
- Technical Report Writing
- Awareness of Legal Requirements and relevant Road Traffic Acts
- Communication Skills

RESOURCES

- Appendix 1 - Background information on Rexshire
- Appendix 2 - Map of Rexshire indicating key parts
- Appendix 3 - Location of existing data collection places and types
- Appendix 4 - Data collection information

Project Brief B – Appendix 1

Background information on Rexshire

Rexshire is an historic market town located within England and has a residential population around 10 000, around 1 000 people work within the town. There are around 100 businesses operating within vicinity of the town, with the largest FARMAN being a manufacturer that makes specialist farming equipment. A large number of freight trips arrive and depart from FARMAN's site with the vast majority using the motorway.

The town is located near to two motorway junctions, J10 and J11, both of which are 'full junctions' with two on and two off slips.

A new area for housing was built 3 years ago along the A995 with an access road connecting the dual carriageway to the A99, with corresponding junctions. The capacity of the bypass was increased significantly two years ago, as part of this a large out of town Shopping Centre considerably expanded. No other significant changes to either land use or infrastructure have occurred in the past decade.

Events around Rexshire of possible significance

For the purpose of this task you may assume that school holidays in the area have been and remain as:

The third full week of February

The Easter holiday is two weeks, which includes Easter Sunday as the middle weekend

Spring half term is the last full week of May.

The summer holidays consist of the last week of July, the whole of August and the first week of September.

The third full week of October

The Monday Christmas Day falls into until the 2nd of January

Special event

- Market day is Thursday morning. There is a Christmas fare on each Tuesday evening during December 4 pm-8 pm, this has also occurred for the past 10 years. During both these times, HGVs are forbidden from accessing or passing through the main residential area, marked in diagram X.



Project Brief B – Appendix 2

Map of Rexshire indicating key parts

Project Brief B – Appendix 3

Location of existing data collection places and types (may differ)

Location	Date of Collection	Type
Cordon around J11 and J10 includes the mainline, side roads and slip roads	June 18 th and 19 th 2014	ANPR – includes information about traffic that remains on mainline throughout cordon
Automatic collection between J10 and J11 on both NB and SB carriageways	Installed in 2016, continuous collection in 15 minute periods	RADAR, counts are broken down by vehicle lengths
South of J10 on both NB and SB carriageways	Installed in 2012, continuous collection in 15 minute periods	Induction loops, counts are broken down by vehicle lengths
North of J11 on both NB and SB carriageways	Installed in 2014, continuous collection in 15 minute periods	Induction loops, counts are broken down by vehicle lengths
A99 / A982 junction	15 th June 2011 – 12 hour count	MCC broken down by hour, and vehicle type
A98 / A982 junction	6 th October 2015 – 12 hour count	MCC broken down by hour, and vehicle type
A99 / A981 junction	10 th November 2017 – 12 hour count	MCC broken down by hour, and vehicle type
A97 between shopping centre and J11 both EB and WB carriageways	Last two full weeks of November 2017.	ATC, counts are broken down by vehicle lengths.
A97 / Shopping centre junction	Last two full weeks of November 2017.	MCC broken down by hour, and vehicle type
A99 / B984	March the 12 th 2010 (Morning and evening peaks only)	MCC broken down by hour, and vehicle type
A97 between railway line and A100	First two weeks of August 2014	ATC, counts are broken down by vehicle lengths.
A100 between A97 and FARMAN site access	First two weeks of August 2014	ATC, counts are broken down by vehicle lengths.
A100 between FARMAN site access and A97	24 th March to 4 th April 2014	ATC, counts are broken down by vehicle lengths.
A100 between FARMAN site access and A97	24 th March to 4 th April 2014	ATC, counts are broken down by vehicle lengths.
Residential Area	Annually	A household survey of how people travel using travel diaries is conducted each year.
A97 / A98 junction	8 th November 2017 – 12 hour count	MCC broken down by hour, and vehicle type
A97 / A100 junction	9 th November 2017 – 12 hour count	MCC broken down by hour, and vehicle type

Project Brief B – Appendix 4

Data collection information

The following types of data collection are available, use the following information to establish the cost of your proposed surveys.

Available Survey Type	Cost per site	Resource limit (how many can be run at the same time)	Comments
MCC	£200	6	MCCs are in two directions.
ATC	£250 – Single carriageway £450 – dual carriageway	12	Should be down for no more than 3 weeks. Both directions are collected.
RSI	£6k	1 site per day for the actual interviews, ATC can be run at the same time across the different sites.	The RSI includes an MCC and 2 week ATC at the site.
Interviews	£100 per interviewer per day (can complete 8 households or 2 SME businesses a day)	Team is at most 6 people	Requires at least a team of 3, and a whole number of days. Due to the size of the company, an interview concentrating on FARAM would require 3 days.
ANPR	£600 per site per day	Up to 20	Traffic is recorded in two directions for a single carriageway, a dual carriageway would require two sites.
Journey time information	£250 per route (all time periods)	6 routes can be extracted per day	Routes are in both directions and all required time periods.