



## **Vale of Glamorgan Local Development Plan Retail Planning Study**

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## 1.0 Executive Summary

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### Vale of Glamorgan Economy & Retail Overview

- 1.1 The Vale of Glamorgan's retail economy is based on strong resident demand for convenience and comparison goods. The Vale has 119,290 residents living in 48,878 households<sup>1</sup>. Using CACI's Retail Footprint and ProVision models, taken from the "Classification of Individual Consumption According to Purpose" (COICOP), resident spend has been assessed at £256 million annually for convenience goods which includes food, drink, medical products and other personal care products and £298 million for comparison purchases such as clothing, household applications, books and other personal effects<sup>2</sup>, spent both in and outside the Borough. Presently, £218 million of annual convenience spend and £88 million of annual comparison spend is retained in the area.
- 1.2 The Vale is relatively affluent; the majority of houses are owner-occupied with average house prices in the region of £223,700<sup>3</sup>. The average earnings in the borough are £34,108, slightly above the national average of £33,706<sup>4</sup>. Key areas of employment are in the retail and manufacturing sectors, while there is above average representation of those employed in public administration, as well as electricity, gas and water utilities.
- 1.3 The Vale as a whole is well catered for in convenience provision, although there is notable overrepresentation of off-licences (185% the national average). Conversely, there is currently no representation of health food specialty stores in the Vale.
- 1.4 Relative to competing Cardiff and Bridgend, comparison goods provision is currently lacking in the Vale. There is extremely low representation in the area of the following comparison retail categories:
- Drapery/Soft Furnishings
  - DIY High Street Stores
  - China/Glass/Giftware
- 1.5 There is also a significant under representation of Ladieswear, and to a lesser extent Menswear; this contrasts with an over representation of Childrenswear and Baby/Maternity Clothing.

### Future Growth in the Vale

- 1.6 Population estimates for the Vale show a baseline population increase of 2.4% to 2012, 5.2% to 2017 and 10.8% to 2026. In addition to this, a projected housing requirement for the development of 7,500 residential units as part of the Local Development Plan 2011 - 2026 (LDP), will have a significant impact on population forecasts. Assuming moderate densities based on similar mixed use development schemes in other parts of the UK, development at this scale can be expected to generate additional population growth of 13,695 people over the course of the LDP<sup>5</sup>.

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<sup>1</sup> Source: CACI

<sup>2</sup> CACI spend estimates produced in partnership with Cambridge Econometrics

<sup>3</sup> Source: CACI StreetValue

<sup>4</sup> Source: CACI

<sup>5</sup> Source: CACI

- 1.7 In assessing future convenience and floorspace capacity, this development scenario has been incorporated into existing projections, representing a cumulative 11.06% increase in the final 2026 population against the 2007 baseline.
- 1.8 The main settlements, reflect this population increase by number and percentage growth. This does not reflect the actual population numbers, merely the growth rate.<sup>6</sup>

**Fig 1: Population Growth by Numbers in Main Settlements**

	2008	2013	2018	2023	2026
Cardiff	15,637	16,064	16,547	16,901	17,106
Bridgend	10,965	11,269	11,668	11,984	12,181
Llantwit Major	10,028	10,266	10,591	10,908	11,096
Barry	60,642	62,205	64,302	66,235	67,318
Penarth	28,377	29,160	30,139	31,013	31,548
Dinas Powys	7,511	7,724	7,976	8,205	8,338
Cowbridge	9,253	9,498	9,817	10,090	10,270

Source: CACI

**Fig 2: Population Year on Year % Growth in Main Settlements**

	2013	2018	2023	2026	Total
Cardiff	3%	3%	2%	1%	9%
Bridgend	3%	4%	3%	2%	11%
Llantwit Major	2%	3%	3%	2%	10%
Barry	3%	3%	3%	2%	11%
Penarth	3%	3%	3%	2%	11%
Dinas Powys	3%	3%	3%	2%	11%
Cowbridge	3%	3%	3%	2%	11%

Source: CACI

<sup>6</sup> Source: CACI

### Convenience Capacity Assessment

- 1.9 Using CACI's ProVision supermarket turnover model, CACI have assessed the current balances of trade (ratio between store resident-based turnover and available resident spend) of convenience goods spend for six study zones. Taking the impacts of resident population growth and the growing use of the Internet for home-deliveries, the following conclusions were drawn on current and future need.
- 1.10 The study zone defined for Barry is the biggest market and strongest performing sector in the Vale. Its resident convenience market is currently worth £123.2m and it has a turnover potential of £147.4m, showing an in-flow of expenditure from the surrounding zones of £24.2m. Barry currently supports 65% of the Vale's convenience economy. The current turnover potential density (£11,943 per m<sup>2</sup> net) is higher than the benchmark trading density of £10,000 per m<sup>2</sup>). The zone therefore currently has capacity for new convenience floorspace, of 2,398 m<sup>2</sup> net.
- 1.11 Under the currently projected housing and population growth scenario, with negative impacts on demand relating to the Internet, Barry will support 3,803 m<sup>2</sup> net by 2012 and 3,928 m<sup>2</sup> by 2026.
- 1.12 The Cowbridge study area currently has no very little means of retaining its resident convenience spend of £33.3m. This expenditure is leaking to Bridgend and other zones, and is the highest expenditure leakage of any study zone.
- 1.13 The Llantwit Major study area has a resident convenience market worth £29.4m. Of this, £15.6m is currently being leaked to other zones, the highest % leakage of any zone that has convenience floorspace. It also has the highest turnover potential density of any zone (£13,818 per m<sup>2</sup>) albeit it currently only has headroom for an additional 386 m<sup>2</sup> net, rising to 468m<sup>2</sup> by 2026.
- 1.14 The Penarth study area has a resident convenience spend of £94.9m, and is losing £29.0m of this to Barry and Cardiff. With a turnover potential density of £12,302 per m<sup>2</sup>, Penarth currently has headroom for an additional 1,233m<sup>2</sup> of convenience floorspace. Catchment distribution of supermarkets in Cardiff and Barry suggest that the identified headroom for convenience floorspace needs to be developed/extended to compete effectively with the surrounding towns. The amount of headroom for additional convenience floorspace increases to 1,918m<sup>2</sup> by 2026.
- 1.15 If the council were to receive an application for new floorspace in Barry or Penarth town centres, we would recommend that the level of sustainable floorspace be re-assessed based upon the extent to which the specific proposal could be argued to claw-back spend from other areas, and how this will impact on the capacity for floorspace (and corresponding headroom) at other locations.

### Comparison Capacity Assessment

- 1.16 CACI has employed their Retail Footprint comparison goods catchment and turnover model to estimate current and future turnover potential at each of the three main town centres. The two other retail centres in the Vale, Llantwit Major as a *Rural Centre* and Dinas Powys as a *Local Centre*, do not contribute significantly to comparison turnover.
- 1.17 Converting this turnover potential into capacity, CACI have used target-trading densities floorspace to determine 'headroom' estimates for each town. A separate future floorspace needs assessment has been performed for each centre. Taking into account the impacts of resident population and Internet spend impacts, the following conclusions were drawn on present and future need:
- 1.18 Barry town centre (Barry Town Centre & High Street/Broad St) draws strong performance from its high percentage (87%) of independent comparison retail, and despite the proximity of Cardiff it has a relatively strong hold on its primary catchment. The current turnover potential is £40.5m. At a target trading density for comparison goods of £3,000 per m<sup>2</sup>, only small comparison headroom is currently supported - an addition of 577m<sup>2</sup>. Under current population projections however, this headroom will increase to 5,797m<sup>2</sup> by 2026. Barry's retail mix highlights the areas that would increase the appeal of Barry and reclaim more shoppers from secondary and tertiary catchments - the crucial categories that are underrepresented are Clothing, Leisure Goods and Electrical Goods.
- 1.19 Penarth town centre has a current turnover potential of £19.9m with a trading density of £3,420 per m<sup>2</sup>. It currently supports slightly more comparison headroom than Barry, at 816m<sup>2</sup>. However the comparison headroom in Barry will overtake that of Penarth by 2012. Despite the population adjustments the amount of headroom supported in Penarth will not change significantly going forward to 2026.
- 1.20 Cowbridge has a current turnover potential of £10.4m and a trading density of £3,134 per m<sup>2</sup>. Due to market scale, a target trading density of £2,000 per m<sup>2</sup> is used to assess capacity and headroom. Currently 1,887m<sup>2</sup> of additional comparison floorspace is supported in Cowbridge, and under current housing and population projections this does not change significantly going forward to 2026.
- 1.21 No headroom for additional floorspace was identified at Culverhouse Cross. Its current turnover potential is £11.0m, less than the turnover the current retail operators on the site are expected to be making. Looking ahead to 2026, the lack of headroom is not expected to change significantly across any of the planning period years. Currently Culverhouse Cross is categorised as *Retail Park Minority Fashion*, having only 5.8% of its retail fascias as fashion (approx 26% of floorspace). Scenario modelling of retail space has shown that an increase in fashion retail at the centre has a disproportionate uplift on the performance of the centre, and an adverse effect on Barry and Penarth. Preventing the retail mix at the scheme from exceeding the current fashion retail percentage will help maintain Barry's existing comparison goods appeal.
- 1.22 The analysis has confirmed that the two other retail centres in the Vale, Llantwit Major as a *Rural Centre* and Dinas Powys as a *Local Centre*, do not contribute significantly to comparison turnover.
- 1.23 If the council were to receive an application for new floorspace in Barry & Penarth town centres, we would recommend that the level of sustainable

floorspace be re-assessed based upon the extent to which the specific proposal could be argued to claw-back spend from other areas, and how this will impact on the capacity for floorspace (and corresponding headroom) at other locations.

- 1.24 In particular, whilst significant comparison goods headroom is currently identified in Llantwit Major and Cowbridge, we would recommend that these are re-assessed in the light of any applications coming forward for Barry and Penarth.
- 1.25 We would recommend that Town Centre Strategies are developed to include public/private partnership work.
- 1.26 A clear "retail vision" should be identified for Barry and the district centres, which would include further investigation into the level of market appetite to take the headroom for new floorspace identified, the type of operators which would be most suitable, and the best locations for these operators.
- 1.27 An assessment of the future demographic profile of Vale of Glamorgan should be considered regarding the impact of progress, such as:
  - Any projected economic growth;
  - The impact of any new residential or mixed use developments in and around the Vale of Glamorgan.



## 2.0 Introduction and Methodology

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### Agenda

- 2.1 The Vale of Glamorgan Council (VGC) has tasked CACI with providing evidence to support the emerging Local Development Plan (LDP) and in understanding a sustainable retail vision for Barry Town Centre.
- 2.2 The study aims to provide a comprehensive overview of the current and future shopping dynamics of Barry, Penarth, Cowbridge and Llantwit Major (distinguishing between the convenience, comparison and bulky goods markets) for the LDP Evidence Base.
- 2.3 The Vale of Glamorgan has supplied CACI with statistics, which covers a five-year period and initiates a co-ordinated framework for action, along with the opportunities for improvement within these centres. The document builds upon previous strategies and studies undertaken.
- 2.4 CACI's comprehensive evidence base has been used to assess floor space capacity, future productivity improvement rates and additional floor space requirements. Detailed quantitative information has been prepared on consumer expenditure levels and retail centre market shares for 2007, 2012, 2017 and 2026 accounting for trends in underlying consumer expenditure, including the impacts of increased spend on the internet, and changes that will be brought about by pipeline retail developments.

This section outlines the methodologies and analytical approaches employed in achieving each of these stages.

### Study Approach & Scope

- 2.5 CACI have contextualised the report with reference to the current body of retail evidence for VGC. This evidence base includes:
  - VGC Unitary Development Plan (UDP)
  - Holton Road Action Plan
  - Barry Town Centre Living Study

### Comparison Goods

- 2.6 Understanding the market size and expenditure growth trends for individual retail centres is achieved using Retail Footprint – CACI's comparison goods catchment model. Retail Footprint reflects actual shopper behaviour and defines overlapping centre catchments for over 3000 retail centres across the United Kingdom. The model was first developed in 1995 and has been calibrated annually using consumer transaction behavioral data. Corroboration with other industry data sources has demonstrated the model to be highly accurate, for instance there is a 0.97 correlation between Retail Footprint and the turnover figures published by the ODPM.
- 2.7 Retail Footprint is a gravity model and is based on five general principles, which influence the level of spatial interaction between retail centres of all sizes and classes:

- The role and function of the centre in the regional and national hierarchy.
  - The relative 'attractiveness' of the centre's facilities, including scale and market positioning.
  - The degree of competition in terms of other centres.
  - Relative travel time to the centre compared to competition.
  - The size of the population and available spend within an area.
- 2.8 In South Wales the Retail Footprint model has been validated against household telephone surveys as part of a previous planning study prepared on behalf of the Welsh Development Agency (DEIN). Recent study work in Aberystwyth also demonstrated close correlation with visitor survey results and Retail Footprints' estimated catchment.
- 2.9 A full methodology is available as an addendum to this report.
- 2.10 CACI have used the most recent retail audit data to update the Retail Footprint with the most accurate and current information and provide for Barry and each of the 4 District Centres of the Vale of Glamorgan as identified in VGC Council Town Centres Strategy 2007-2012:
- Barry Town Centre & High Street/Broad St
  - Penarth Town Centre
  - Cowbridge Town Centre
  - Llantwit Major Town Centre

This data will enable the production of maps showing the following:

- Baseline catchment map
- Baseline Shopper flows map
- Baseline Market size of the town in terms of Comparison Goods

#### **Convenience Goods**

- 2.11 A similar model to Retail Footprint is available for convenience goods shopping. ProVision, CACI's grocery retail gravity model, has been used to assess all grocery stores over 4,000 sq feet and defines catchment and turnover.
- 2.12 The analysis of smaller stores are also included in this study, and are analysed based on audit information.

#### **Quantitative Needs (Capacity) Assessment**

- 2.13 A capacity assessment has been conducted to inform retail floorspace needs in Barry, Penarth, Cowbridge and Llantwit Major for 2007, 2012, 2017 and 2026.
- 2.14 CACI's gravity modeling approach can cause concern if the results are not reported in a clear and transparent way. In particular, there can be problems in analysing a model that by its nature can dynamically redefine catchment area's dependent upon different development scenarios.

- 2.15 CACI have addressed this issue by formulating a method of reporting the outcomes of their modeling on a set of agreed planning zones. This can be defined and agreed upon at the outset of this stage of analysis. The planning zones will be used for comparison, convenience and bulky goods analysis to provide consistency and comparability of results.
- 2.16 In ensuring that all data reflects the current market conditions, CACI have used comprehensive audit data on the current retail provision to identify the strength of multiple and independent retail in the Council's key centres.
- 2.17 CACI have used these sources to deliver quantitative information on comparison and convenience goods for the town centres and their hinterland for the years 2007, 2012, 2017 and 2026 including:
- Balance of Trade across each planning zone
  - Expenditure growth inside each planning zone
  - Population Growth inside each planning zone
  - Population and Expenditure growth outside of planning zones
  - Growth in operating costs for retailers.
  - Impacts of internet on retail centre sales
  - Impacts on retail market size and Balance of Trade due to new developments.
  - Estimates of retail floorspace needs for each zone, based upon capacity assessment using estimates of centre turnover

**Definition of Vale of Glamorgan's planning zones**

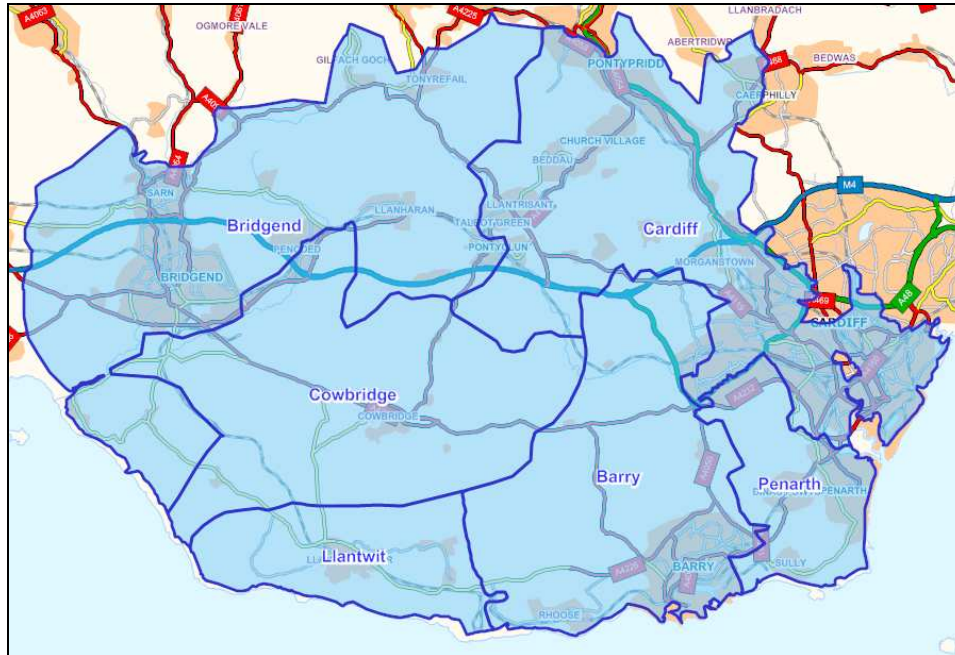
- 2.18 To allow consistency between this retail study and previous retail study work, CACI have adopted a retail study zone structure that incorporates previous definitions, while extending the structure to take into account a wider area than has previously been analysed. The wider area has been defined based upon CACI's understanding of retail centre and supermarket catchments.
- 2.19 Figure 3 provides a definition of each of the six retail study zones, which are defined by grouping together postcode sectors areas.

**Fig. 3 Postcode Sector Definition of Zones**

<b>Postcode Sector</b>	<b>Zone</b>	<b>Postcode Sector</b>	<b>Zone</b>
CF 5 6	Barry	CF11 7	Cardiff Fringe
CF62 3	Barry	CF11 8	Cardiff Fringe
CF62 5	Barry	CF11 9	Cardiff Fringe
CF62 6	Barry	CF14 2	Cardiff Fringe
CF62 7	Barry	CF14 7	Cardiff Fringe
CF62 8	Barry	CF15 7	Cardiff Fringe
CF62 9	Barry	CF15 8	Cardiff Fringe
CF63 1	Barry	CF15 9	Cardiff Fringe
CF63 2	Barry	CF24 0	Cardiff Fringe
CF63 3	Barry	CF24 1	Cardiff Fringe
CF63 4	Barry	CF24 2	Cardiff Fringe
CF63 9	Barry	CF24 4	Cardiff Fringe
CF31 1	Bridgend Fringe	CF24 5	Cardiff Fringe
CF31 2	Bridgend Fringe	CF38 1	Cardiff Fringe
CF31 3	Bridgend Fringe	CF38 2	Cardiff Fringe
CF31 4	Bridgend Fringe	CF72 8	Cardiff Fringe
CF31 5	Bridgend Fringe	CF95 1	Cardiff Fringe
CF31 9	Bridgend Fringe	CF99 1	Cardiff Fringe
CF32 0	Bridgend Fringe	CF35 5	Cowbridge
CF72 9	Bridgend Fringe	CF71 7	Cowbridge
CF 5 1	Cardiff Fringe	CF61 1	Llantwit Major
CF 5 2	Cardiff Fringe	CF61 2	Llantwit Major
CF 5 3	Cardiff Fringe	CF62 4	Llantwit Major
CF 5 4	Cardiff Fringe	CF 5 5	Penarth
CF10 2	Cardiff Fringe	CF64 1	Penarth
CF10 4	Cardiff Fringe	CF64 2	Penarth
CF10 5	Cardiff Fringe	CF64 3	Penarth
CF11 0	Cardiff Fringe	CF64 4	Penarth
CF11 6	Cardiff Fringe	CF64 5	Penarth

2.20 Figure 4 presents these retail study zone definitions on a base map of the area.

**Fig.4 Retail Study Zones**



2.21 For the purposes of assessing capacity for convenience floorspace, CACI have grouped together the following postcode sectors into six study zones that broadly reflect distinct areas in Vale of Glamorgan trading circuit. The postcodes all comprise the primary, secondary and tertiary catchment areas of the Vale's 6 Retail Footprint Centres. The definition and rationale for each study zone is as follows:

1. Barry – the town areas of Barry, Rhoose, Wenvoe, Bonvilston and Peterston-Super-Ely. This zone separates the town area of Barry and its rural surround from those of Penarth, Llantwit Major and Cowbridge. In line with InSite<sup>7</sup> findings this includes Culverhouse Cross.
2. Bridgend and External Fringe – those parts of VOG's Retail Footprint Centre catchments that fall outside the administrative area of the council and are close to the town of Bridgend; covering Bridgend itself, Brynna, Tonyrefail and Gilfach Goch. Owing to problematic postcode geography, the VOG town of St. Bride's Major is also included in this zone.
3. Cardiff and External Fringe – those parts of VOG's Retail Footprint Centre catchments that fall outside the administrative area of the council and are close to the city of Cardiff; including parts of Cardiff City, Pontypridd, Llantrisant and Church Village.

<sup>7</sup> InSite is a local market analysis system that helps find target customers and target locations. It is consumer data and location planning models, developed to provide decision-making support. It uses mapping, data manipulation and analysis tools to understand consumers and business locations. InSite users are supported on both software usage and business applications.

4. Cowbridge – the town area of Cowbridge, and surrounding rural environs of St. Hilary, Wick, Treoes and Ystradowen. This zone separates the town area of Cowbridge from Llantwit Major.
5. Llantwit Major – the town area of Llantwit Major, and the coastal area stretching from St. Donats to St. Athan.
6. Penarth – the town areas of Penarth, Dinas Powys, Llandough and Sully.

**Fig. 5 Study Zones in relation to Vale of Glamorgan Administrative Boundary**



For ease, the following Glossary of Terms can be used for reference to help the reader with CACI and other definitions.

### Glossary

COICOP	Classification of Individual Consumption According to Purpose
DEIN	Welsh Development Agency
EFS	Expenditure and Food Survey
LDP	Local Development Plan
ODPM	Office Deputy Prime Minister <sup>8</sup>
RF	Retail Footprint
Sq. M.	Square Metres
UDP	Unitary Development Plan
VGC	Vale of Glamorgan Council

<sup>8</sup> Now "Communities & Local Government"

### 3.0 Convenience Goods Assessment

#### Convenience Goods Market Analysis

- 3.1 Using Census population projections and the results of the Expenditure and Food Survey (EFS) based expenditure data; estimates of 2007 convenience goods expenditure for each of the planning zones have been derived. Figure 6 summarises the key statistics.

**Fig. 6 Study Area Zone Statistics 2007**

Planning Zone	Residential Population	Resident Spend per capita (per annum)	Resident Convenience Spend (£'s per annum)
Barry	57,530	£2,419	£123.2m
Bridgend	89,251	£2,498	£192.2m
Cardiff	241,392	£2,491	£527.4m
Cowbridge	14,497	£2,868	£33.3m
Llantwit Major	14,627	£2,404	£29.4m
Penarth	44,671	£2,416	£94.9m
<b>Total</b>	<b>461,698</b>	<b>£2,485</b>	<b>£1.0006bn</b>

- 3.2 In terms of estimating growth in residential spend, CACI will only apply assumptions of population growth. This is because the current trends on convenience spend per capita are complex, due to food prices deflating in many areas, mainly attributable to supermarkets finding more ways to reduce costs from economies of scale.
- 3.3 In addition to housing growth specifications provided by the council for the area, CACI will apply the trend-based projections of population growth for the study area as a whole, which has not been disaggregated by study zone, as:
- 2007-2011: 2.4%
  - 2011-2016: 2.8%
  - 2016-2021: 5.6%
- 3.4 To take into account home delivery sales channels (otherwise known as Special Forms of Trading) it has been assumed for this study that in the base year of 2007, 3.86% of all retail sales take place over home delivery sales channels for convenience goods.
- 3.5 It is assumed that this figure of 3.86% increases by 1% per year to 2016, after which it is assumed that the market will stabilise around this level of impact. The effect of increases in home delivery sales will need to be monitored over the Development Plan period as more research becomes available in order to plan for their effects.

**Fig. 7: Impact of Home Delivery on Residential Spend 2007-2021**

Study Zone	2007 Resident Spend (exc. Home Delivery)	2012 Resident Spend (exc. Home Delivery)	2017 Resident Spend (exc. Home Delivery)	2026 Resident Spend (exc. Home Delivery)
Barry	£123,219,183	£140,833,212	£144,222,264	£150,060,494
Bridgend Fringe	£192,249,414	£219,731,228	£225,018,905	£234,127,846
Cardiff Fringe	£527,459,808	£602,859,530	£617,366,918	£642,358,413
Cowbridge	£33,327,180	£38,091,258	£39,007,898	£40,586,968
Llantwit Major	£29,461,054	£33,672,475	£34,482,779	£35,878,669
Penarth	£94,940,719	£108,512,377	£111,123,650	£115,622,022

- 3.6 Residential base spend relates to the amount of consumer spend available in each zone, regardless of where it is spent. Fig: 7 summarises the impact of increased Home Delivery on Residential Spend available for supermarkets by study zone, and projected forward to 2012, 2017 and 2026. The fringe zones of Bridgend and Cardiff are for contextual purposes only; as defined in the introduction these zones are outside the administrative area of Vale of Glamorgan Council.



- 3.7 Net trading floorspace figures for the convenience floorspace component of each store has been generally sourced from Provision and site visits, taking into account the observed proportion of total floorspace given over to convenience goods. In some cases (marked with an asterisk in Figure 8) figures have been sourced from Nathaniel Lichfield & Partners in their Convenience Retail Capacity report for Barry Waterfront (May 2008).
- 3.8 The Vale of Glamorgan's supermarkets and convenience stores were assessed relative to the defined study zone areas. CACI's ProVision model was used in combination with assessments of stores below 370 sqm to identify annual turnover potential for each supermarket and convenience store, as summarised in Fig. 8. Based on the spatial distribution of convenience expenditure, it has been assessed that Barry is supporting 65% of the Vale's convenience economy.

**Fig. 8 Vale of Glamorgan Supermarkets and Annual Turnover Potential**

Store	Total Net Floor-space (sq. m.)	Convenience Floor-space (Net sq m.)	Postcode Sector / Study Area	Annual Turnover Potential (£m's pa)	Annual Turnover Potential Density (£'s pa per sqm net)
Morrisons	3,160	2,370	CF63 4 / Barry	£34.7	£14,651
Waitrose	2,323	1,975	CF63 2/ Barry	£28.3	£14,332
Home Bargains (Netto)	920	552	CF63 4/ Barry	£2.6	£4,773
Tesco	1,795	1,436	CF62 8/ Barry	£18.9	£13,183
LIDL	915	732	CF63 1/ Barry	£4.1	£5,650
Iceland	374	374	CF63 4/ Barry	£1.9	£5,019
Other Stores in Barry (below 370 sq.m.) *	858	815	Barry	£2.2	£2,756
Marks & Spencer *	837	795	CF 5 6 / Barry (Culverhouse Cross)	£11.8	£14,855
Tesco *	6,583	3,292	CF 5 6 / Barry( Culverhouse Cross)	£42.7	£12,978
Somerfield	403	363	CF61 1 / Llantwit	£5.1	£14,179
Filco Foods*	585	527	CF61 1/ Llantwit	£6.9	£13,165
Other Stores in Llantwit (below 370 sq.m.) *	120	114	Llantwit	£1.8	£15,687
Tesco	2,360	1,888	CF64 1 / Penarth	£30.0	£15,916
Aldi	650	618	CF 5 5 / Penarth	£7.2	£11,625
LIDL	2,657	2,126	CF 5 5 / Penarth	£23.9	£11,263
Other Stores in Penarth (below 370 sq.m.) *	766	728	Penarth	£4.8	£6,534
Stores in Cowbridge(below 370 sq.m.) *	300	285	Cowbridge	£1.9	£6,548
<b>Total</b>	<b>25,606</b>	<b>18,987</b>		<b>£229.0</b>	<b>£12,062</b>

\* Floorspace Data provided by Nathaniel Lichfield & Partners

3.9 Fig. 9 summarises expenditure at supermarkets and convenience stores for current turnover potential, and those expected for 2012, 2017 and 2026 based on current population projections.

3.10 For each zone, the resident base-spend for convenience goods was measured in relation to the current and expected future performance of supermarkets in each area. This establishes whether there is a positive or negative balance of trade in or out of each study zone.

**Fig. 9 Current and Anticipated Growth of Supermarket Spending**

Study Zone	Turnover Potential 2007	Turnover Potential 2012	Turnover Potential 2017	Turnover Potential 2026
Barry	£147,376,445	£161,435,456	£156,349,139	£162,678,275
Cowbridge	£1,866,180	£2,044,205	£1,979,798	£2,059,942
Llantwit	£13,862,253	£14,598,530	£14,138,577	£14,710,918
Penarth	£65,921,986	£72,210,630	£69,935,222	£72,766,547
VoG Total	£229,026,864	£250,288,820	£242,402,737	£252,215,681

## 2007

3.11 Fig. 10 summarises the 2007 annual expenditure in each zone relative to the amount of convenience floorspace. The annual turnover potential relates to the total turnover potential of the stores in each zone, accounting for changes in performance over time caused by the increase of home delivery shopping. The annual turnover potential density is a measure of the relationship between supply and demand for floorspace.

**Fig. 10 Convenience Goods Spend at Supermarkets 2007**

Study Zone	Annual Turnover Potential	Convenience Floorspace Net Sq. M.	Overall Annual Turnover Potential Density per Sq. M.
Barry	£147,376,445	12,340	£11,943
Cowbridge	£1,866,180	285	£6,548
Llantwit	£13,862,253	1,003	£13,818
Penarth	£65,921,986	5,359	£12,302

3.12 The benchmark trading density is a suitable average supermarket performance figure, measured in turnover per square metre, which can be used to compare with the turnover potential densities of each study zone. In this case, a figure of £10,000 has been selected as a suitable benchmark trading density for the VGC local authority area<sup>9</sup>. Dividing the annual turnover potential by the benchmark trading density assesses capacity, indicating how much convenience capacity each zone could support. By subtracting the known convenience floorspace from the capacity, additional headroom supporting convenience retail is highlighted.

<sup>9</sup> Source: Nathaniel Lichfield & Partners Convenience Retail Capacity report for Barry Waterfront (May 2008).

**Fig. 11 Convenience Capacity and Headroom 2007**

Study Zone	Benchmark Trading Density	Capacity Sq. M.	Headroom Sq. M.
Barry	£10,000	14,738	2,397
Cowbridge	£10,000	187	-98
Llantwit	£10,000	1,386	383
Penarth	£10,000	6,592	1,233

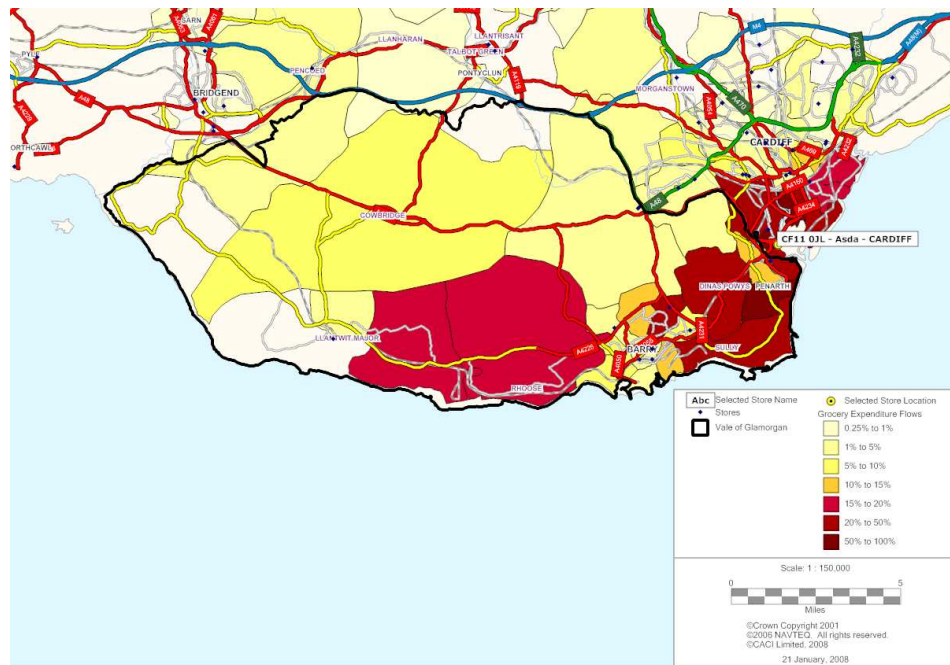
- 3.13 By subtracting the annual turnover potential from the resident base spend, the balance of trade for each zone is established. Fig 12 summarises the current assessment of turnover potential relative to base residential spend. It shows that the study zone defined for Barry is the biggest market and strongest performing study zone in the Vale of Glamorgan. Its resident convenience market is currently worth £123.2m and it has a turnover potential of £147.4m, showing an in-flow of expenditure from the surrounding zones of £24.2m.
- 3.14 Barry also has the greatest headroom for new convenience floorspace, at 2,397 m<sup>2</sup> net. Culverhouse Cross falls within the Barry Planning Zone and as such influences the convenience goods spend figures for both the zone and the town of Barry.

**Fig. 12 Convenience Goods Balance of Trade 2007**

Study Zone	Resident Spend per annum	Annual Turnover Potential	Balance of Trade
Barry	£123,219,183	£147,376,445	£24,157,262
Cowbridge	£33,327,180	£1,866,180	-£31,461,000
Llantwit	£29,461,054	£13,862,253	-£15,598,801
Penarth	£94,940,719	£63,377,372	-£31,563,347

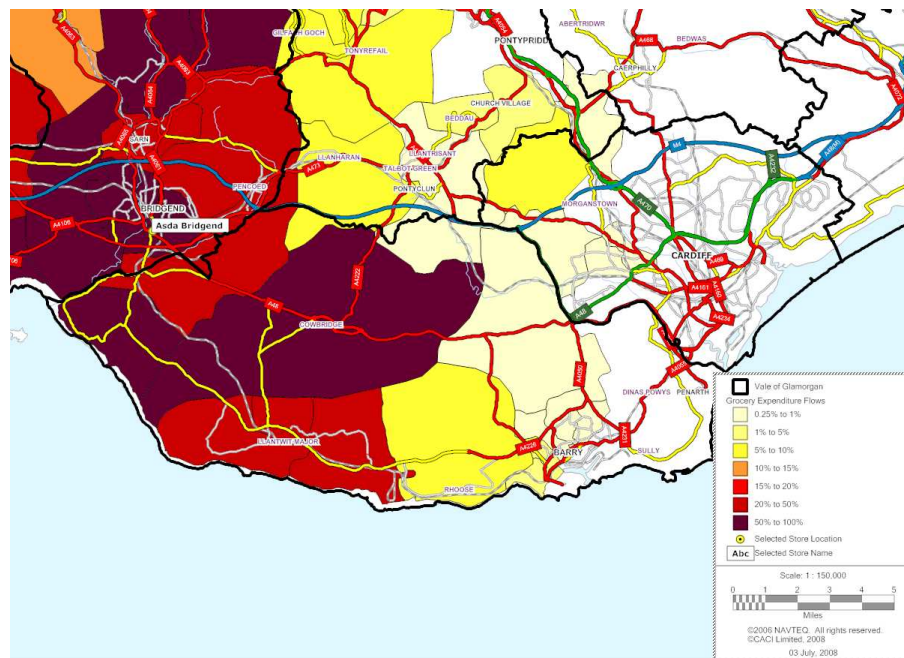
- 3.15 The Penarth study area has a resident convenience spend of £94.9m, and is losing £31.5m of this to Barry and Cardiff. Despite the negative balance of trade, with a turnover potential density of £12,302 per m<sup>2</sup>, Penarth currently has headroom for an additional 1,233m<sup>2</sup> of convenience floorspace, the 2<sup>nd</sup> highest supported by any zone. The catchment distribution of supermarkets in Cardiff and Barry suggests that the supported convenience floorspace needs to be developed as a single site to compete effectively with the surrounding towns.
- 3.16 Analysis of ProVision catchment profile distribution shows that strong convenience representation in the west of Cardiff is having a detrimental effect on the market penetration of in-Borough convenience in the east of the Vale.

**Fig. 13 Grocery Expenditure Flows from Vale of Glamorgan to Asda, Cardiff**



3.17 As Fig 13 demonstrates, there is severe leakage of grocery convenience expenditure from Penarth, Rhoose and St. Athan to the Asda in Cardiff, at the expense of both Penarth and Barry. Significantly, up to 50% of convenience shoppers from Rhoose and St. Athan are bypassing Barry and travelling nearly twice as far to avail of convenience provision in Cardiff.

**Fig: 14 Grocery Expenditure Flows from Vale of Glamorgan to Asda, Bridgend**



- 3.18 The impact of the new Asda in Bridgend may well have a large effect on the Vale. CACI have introduced the store into the data set to analyse the impact it will have of the Vale once in operation, as demonstrated in Fig 14.
- 3.19 In addition to responding to Penarth's own convenience headroom, extra retail provision in Penarth would reduce the flow of Glamorgan shoppers from the borough.
- 3.20 The Llantwit Major study area has a resident convenience market worth £29.4m. Of this, £15.6m is currently being leaked to other zones, the highest % leakage of any zone that has convenience floorspace. It also has the highest trading density of any zone (£13,818 per m<sup>2</sup>) and currently has headroom for 383 sqm net of new convenience floorspace.
- 3.21 The smaller convenience stores in Cowbridge only retain a fraction of the spend available in this zone, with £31.5m of the £33.3m leaking to outside of the area.

## 2012

- 3.22 A rise in annual expenditure going ahead to 2012 will contribute to higher trading densities across the Borough, equating to additional headroom (or a reduction in negative headroom) for each of the study areas, as shown in Fig 15.

**Fig. 15: Convenience Goods Spend at Supermarkets 2012**

Study Zone	Annual Turnover Potential	Convenience Floorspace Net Sq. M.	Overall Annual Turnover Potential Density per Sq. M.
Barry	£161,435,456	12,340	£13,082
Cowbridge	£2,044,205	285	£7,173
Llantwit	£14,598,530	1,003	£14,552
Penarth	£72,210,630	5,359	£13,475

- 3.23 Population increases in line with housing projections have also led to higher trading densities in the Llantwit Major and Penarth study areas. The increases in available headroom, as shown in Fig 16, are proportional to these increases.

**Fig. 16: Convenience Capacity and Headroom 2012**

Study Zone	Benchmark Trading Density	Capacity Sq.M	Headroom Sq.M
Barry	£10,000	16,144	3,803
Cowbridge	£10,000	204	-81
Llantwit	£10,000	1,460	457
Penarth	£10,000	7,221	1,862

- 3.24 Although there is a significant increase in available resident convenience expenditure going ahead to 2012, this is offset against a predicted increase in the effect of home delivery services on all convenience retail, affecting the ability of individual stores to maintain existing market hold.

## 2017

- 3.25 Fig 17 summarises the available residential base spend expected in 2017 against current floorspace provision. Turnover Potential has actually reduced from 2012 levels, although still higher than 2007 levels. This is due to the negative impacts of the Internet.

**Fig. 17 Convenience Goods Spend at Supermarkets 2017**

Study Zone	Annual Turnover Potential	Convenience Floorspace Net Sq. M.	Overall Annual Turnover Potential Density per Sq. M.
Barry	£156,349,139	12,340	£12,670
Cowbridge	£1,979,798	285	£6,947
Llantwit	£14,138,577	1,003	£14,093
Penarth	£69,935,222	5,359	£13,051

- 3.26 Fig 18 shows how the 2017 headroom for new floorspace in Barry and Penarth are 3,295 m<sup>2</sup> and 1,635m<sup>2</sup> net respectively.

**Fig. 18 Convenience Capacity and Headroom 2017**

Study Zone	Benchmark Trading Density	Capacity Sq. M.	Headroom Sq. M.
Barry	£10,000	15,635	3,295
Cowbridge	£10,000	198	-87
Llantwit	£10,000	1,414	411
Penarth	£10,000	6,994	1,635

## 2026

- 3.27 By 2026, there are fewer ongoing negative impacts of internet. Therefore, due to population growth, the level of expenditure increases again from the 2017 level to just above 2012 levels.

**Fig. 19 Convenience Goods Spend at Supermarkets 2026**

Study Zone	Annual Turnover Potential	Convenience Floorspace Net Sq. M.	Overall Annual Turnover Potential Density per Sq. M.
Barry	£162,678,275	12,340	£13,183
Cowbridge	£2,059,942	285	£7,228
Llantwit	£14,710,918	1,003	£14,664
Penarth	£72,766,547	5,359	£13,579

- 3.28 Fig 20 shows that the longterm headroom in Barry and Penarth for additional convenience floorspace is 3,928 m<sup>2</sup> and 1,918 m<sup>2</sup> net respectively.

**Fig. 20 Convenience Capacity and Headroom 2026**

Study Zone	Benchmark Trading Density	Capacity Sq. M.	Headroom Sq. M.
Barry	£10,000	16,268	3,928
Cowbridge	£10,000	206	-79
Llantwit	£10,000	1,471	468
Penarth	£10,000	7,277	1,918

3.29 The assessment of can be summarised as follows:

- Barry Town Centre & High Street/Broad St currently has an appealing convenience offer which needs to be reinforced to avoid loss of trade to Culverhouse Cross.
- There is a long-term sustainable headroom for new convenience floorspace in the Barry study area of 3,928 m<sup>2</sup> net. New provision of floorspace. This should therefore be directed to Barry Town Centre.
- The population growth will not place an immediate demand on convenience provision in Barry, due to negative impacts of the Internet. It will start to generate increases in expenditure from 2017 onwards, with the 2026 headroom figures providing the best guide to a sustainable level of additional floorspace across the whole planning period.
- There is headroom for new convenience floorspace in Penarth. It could be that, in a scenario which takes into account the potential to reduce leakage from Penarth out into Cardiff, a case for even larger levels of floorspace be provided in the area.
- Cowbridge is largely defenceless against the pull of Bridgend, and currently has no means of holding onto any of its resident convenience spend and has no convenience headroom. Because of the rural nature of Cowbridge, it is more difficult to prevent leakage from Bridgend than it is for Cardiff. (see Fig 24).

**Fig. 24 Distribution of convenience supermarket spend from each of the study zones in the Vale of Glamorgan to the supermarkets across the Borough**

Postcode/ Name / Town	Barry	Cowbridge	Llantwit	Penarth	Grand Total	% Overall Supermarket Spend
CF64 1SA - Tesco – CARDIFF	0.33%	0.00%	0.00%	99.67%	100.00%	9.46%
CF31 3XX - Lidl - BRIDGEND	0.00%	95.27%	4.73%	0.00%	100.00%	0.20%
CF72 8RP - Aldi - LLANTRISANT	0.00%	100.00%	0.00%	0.00%	100.00%	0.01%
CF23 8NL - Asda – CARDIFF	0.00%	63.93%	0.00%	36.07%	100.00%	0.07%
CF11 0JR - Aldi – CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	0.19%
CF14 3AT - Tesco Extra – CARDIFF	37.37%	0.00%	2.49%	60.14%	100.00%	2.12%
CF10 2BJ - Sainsbury's Central - CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	0.18%
CF14 5EP - Morrisons –	0.00%	0.00%	0.00%	100.00%	100.00%	0.03%

Postcode/ Name / Town	Barry	Cowbridge	Llantwit	Penarth	Grand Total	% Overall Supermarket Spend
<b>CARDIFF</b>						
CF31 3SQ - Tesco Extra - BRIDGEND	1.63%	73.98%	24.38%	0.00%	100.00%	8.68%
CF10 2XG - Marks & Spencer - CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	0.12%
CF 5 6YZ - Marks & Spencer - CARDIFF	79.49%	4.50%	1.48%	14.54%	100.00%	4.82%
CF63 4BA - Morrisons – BARRY	89.79%	0.48%	3.91%	5.82%	100.00%	12.19%
CF24 4HN - Tesco Extra - CARDIFF	5.68%	0.00%	0.00%	94.32%	100.00%	0.52%
CF 5 5NU - Aldi – CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	1.25%
CF11 0JL - Asda – CARDIFF	27.26%	3.04%	3.91%	65.79%	100.00%	15.86%
CF72 8RB - Tesco Extra - PONTYCLUN	36.23%	56.12%	6.10%	1.55%	100.00%	0.93%
CF63 2PE - Waitrose – BARRY	66.62%	0.58%	3.47%	29.33%	100.00%	9.36%
CF63 4JP - Home Bargains (Netto) – BARRY	96.26%	0.00%	0.67%	3.07%	100.00%	2.51%
CF72 8RB - Marks & Spencer - TALBOT GREEN	0.00%	100.00%	0.00%	0.00%	100.00%	0.02%
CF14 7EW - Asda Wal-Mart Supercentre – CARDIFF	44.53%	26.48%	8.45%	20.55%	100.00%	3.99%
CF83 3SX - Asda - CAERPHILLY	0.00%	100.00%	0.00%	0.00%	100.00%	0.01%
CF31 4AP - Tesco - BRIDGEND	0.00%	80.19%	19.81%	0.00%	100.00%	1.28%
CF11 9AN - Tesco Metro - CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	0.10%
CF62 8NX - Tesco – BARRY	93.03%	0.57%	5.95%	0.45%	100.00%	6.67%
CF 5 6XQ - Tesco – CARDIFF	59.82%	8.81%	7.95%	23.43%	100.00%	8.53%
CF63 1BP - LIDL – BARRY	77.39%	0.00%	2.60%	20.02%	100.00%	0.66%
CF 5 5TD - LIDL – CARDIFF	0.50%	0.00%	0.00%	99.50%	100.00%	3.33%
CF24 3LH - Tesco Metro - CARDIFF	0.00%	0.00%	0.00%	100.00%	100.00%	0.02%
CF61 1XA - Somerfield - LLANTWIT MAJOR	0.00%	0.00%	100.00%	0.00%	100.00%	5.09%
CF63 4HP - Iceland – BARRY	100.00%	0.00%	0.00%	0.00%	100.00%	0.66%
CF32 9ST - J Sainsbury - BRIDGEND	0.00%	85.68%	14.32%	0.00%	100.00%	1.16%
	<b>43.35%</b>	<b>11.90%</b>	<b>10.68%</b>	<b>34.07%</b>	<b>100.00%</b>	<b>100.00%</b>

Source: ProVision

The recently opened Asda in Bridgend is not shown in this table.

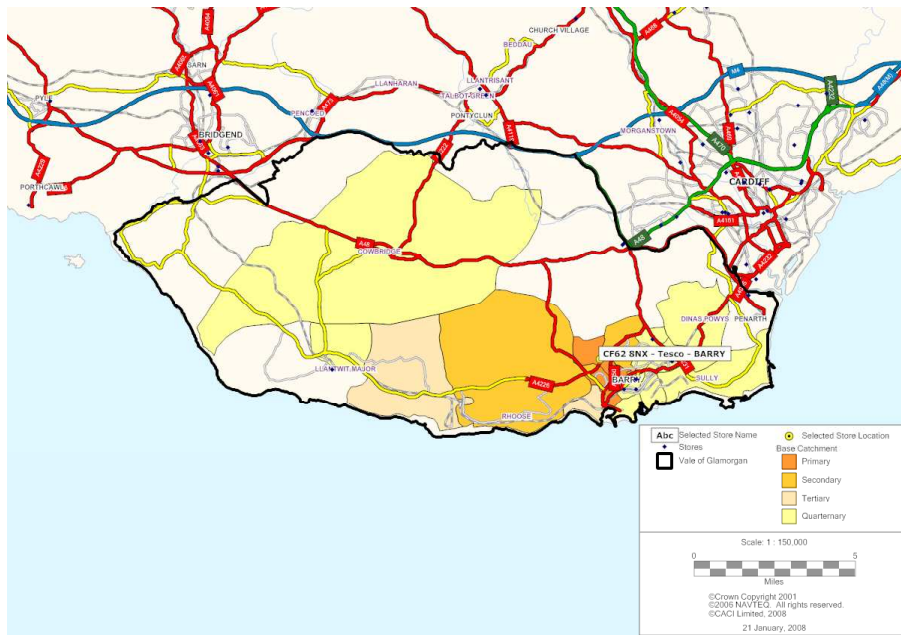


# Supermarket Catchment Maps

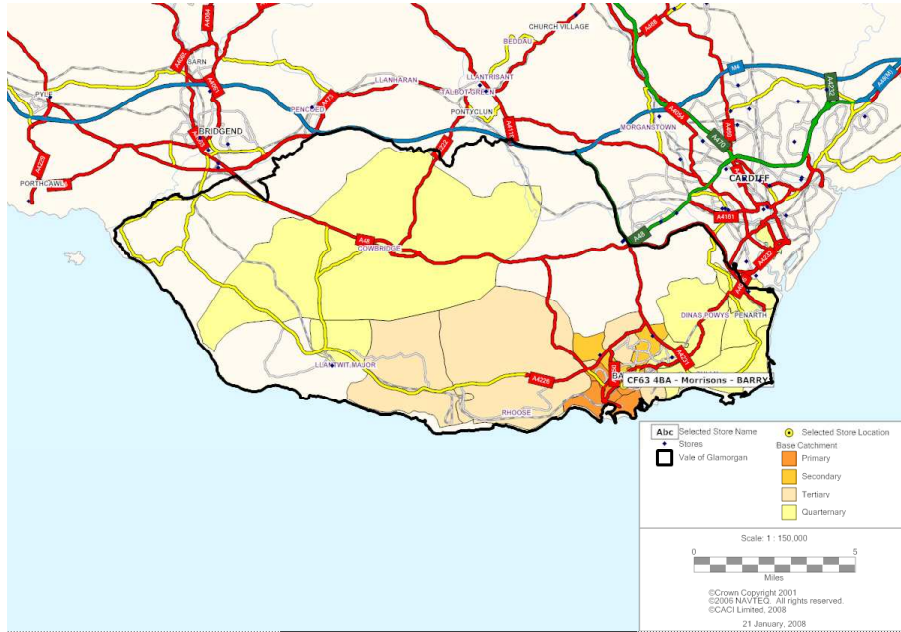
**Fig 24.1: Somerfield - Llantwit**



**Fig 24.2: Tesco - Barry**



**Fig 24.3: Morrisons - Barry**



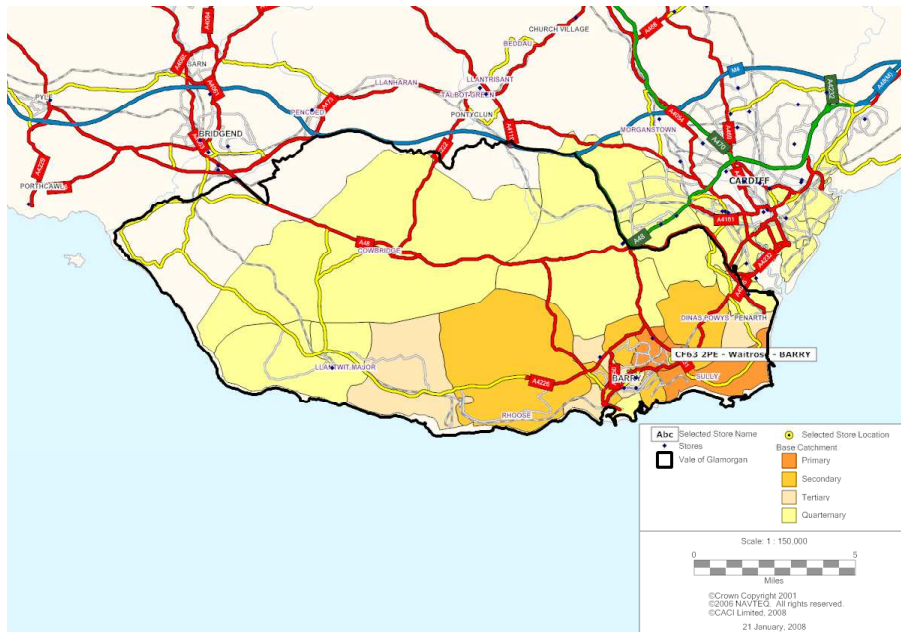
**Fig 24.4: Iceland - Barry**



**Fig 24.5: Home Bargain (Netto) - Barry**



**Fig 24.6: Waitrose - Barry**



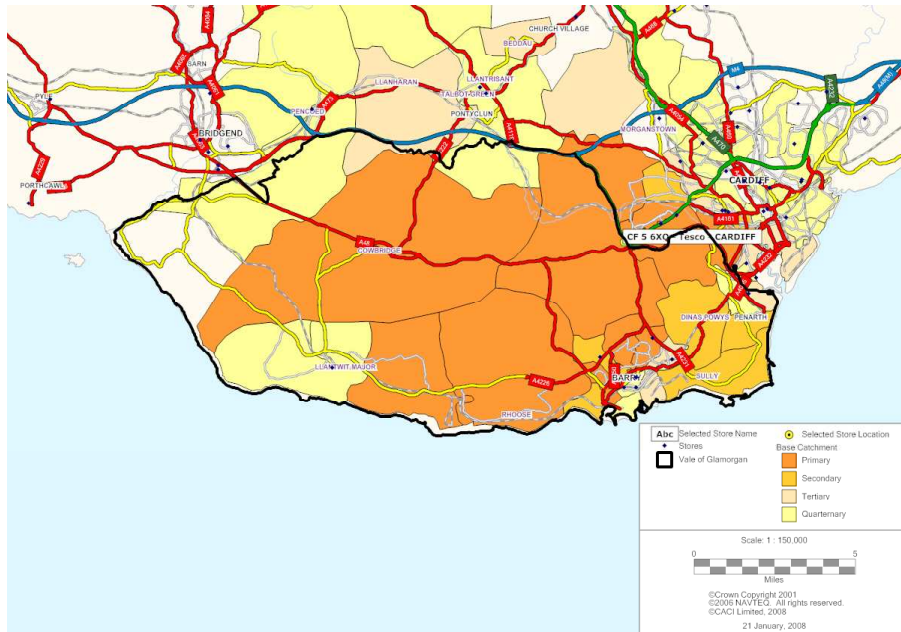
**Fig 24.7: Lidl - Barry**



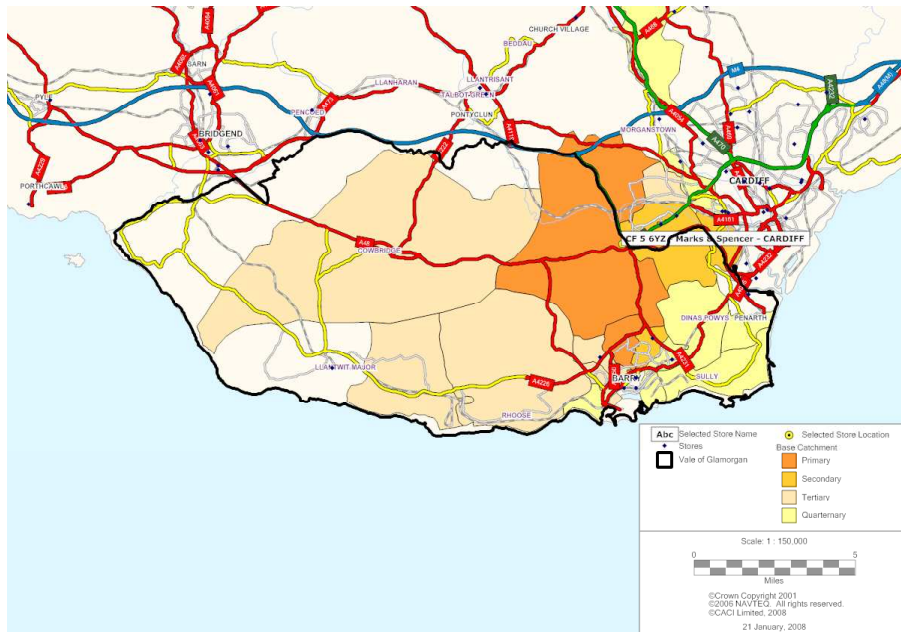
**Fig 24.8: Tesco - Penarth**



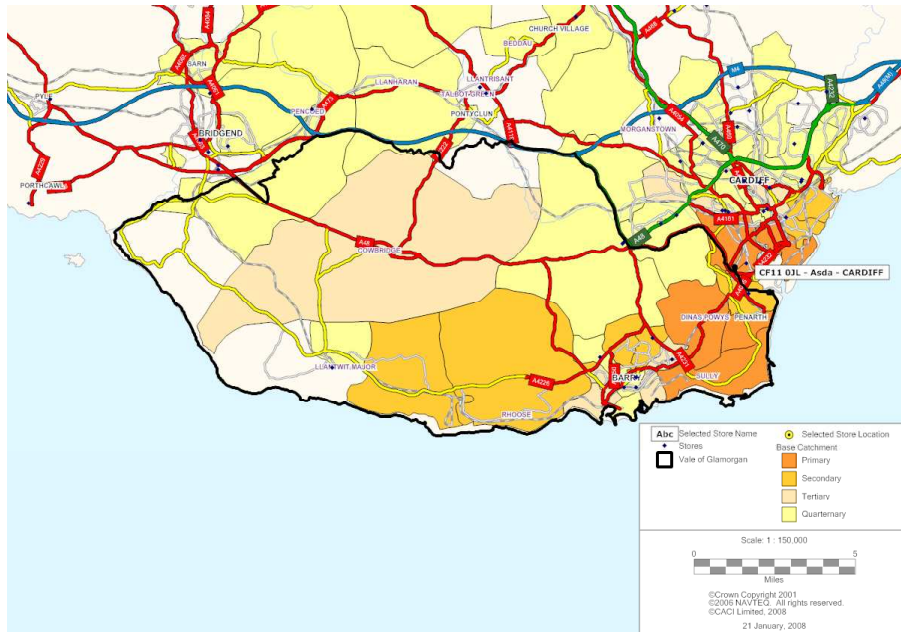
**Fig 24.9: Tesco - CF**



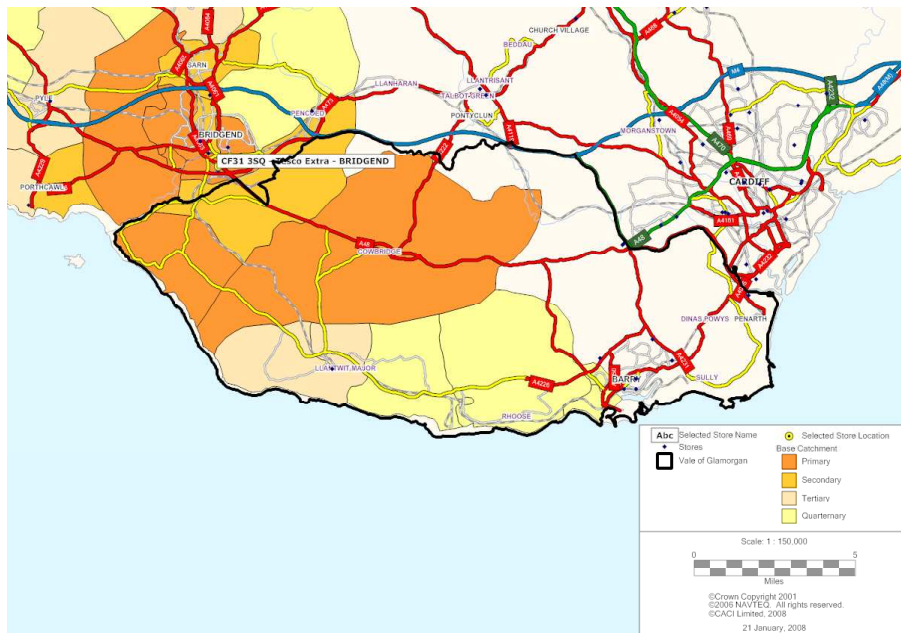
**Fig 24.10: Marks & Spencer - Cardiff**



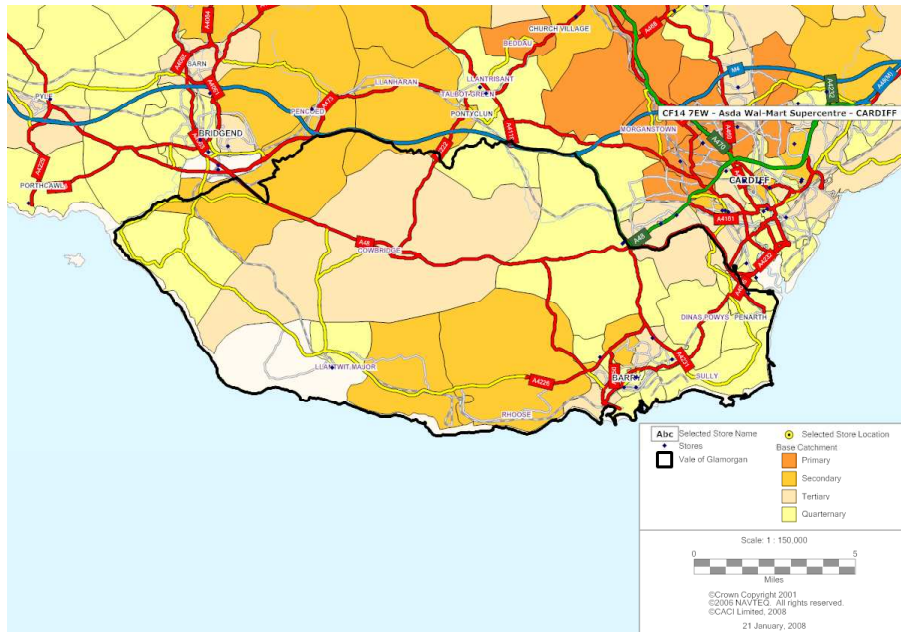
**Fig 24.11: Asda - Cardiff**



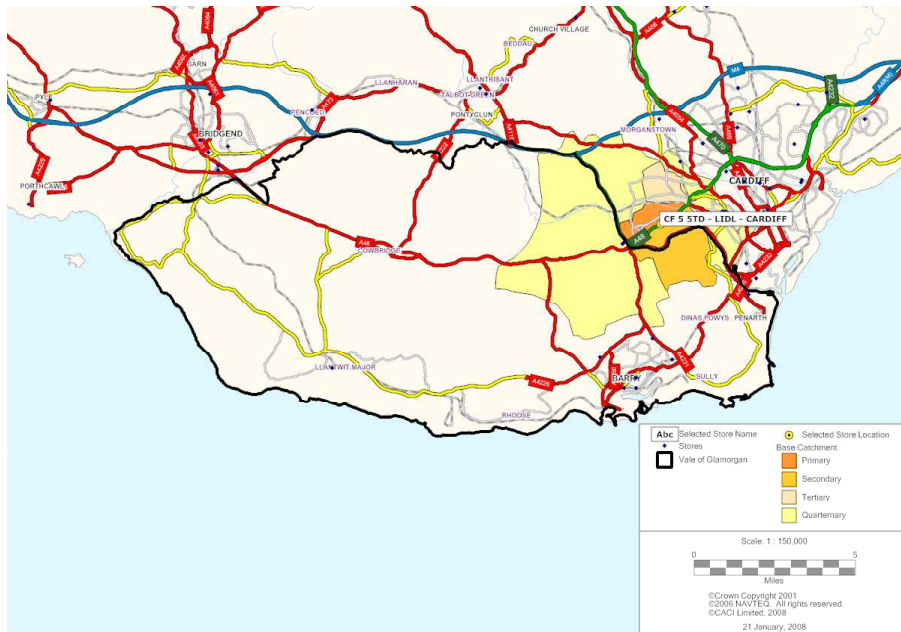
**Fig 24.12: Tesco Extra - Bridgend**



**Fig 24.13: Asda Wal-Mart Superstore - Cardiff**



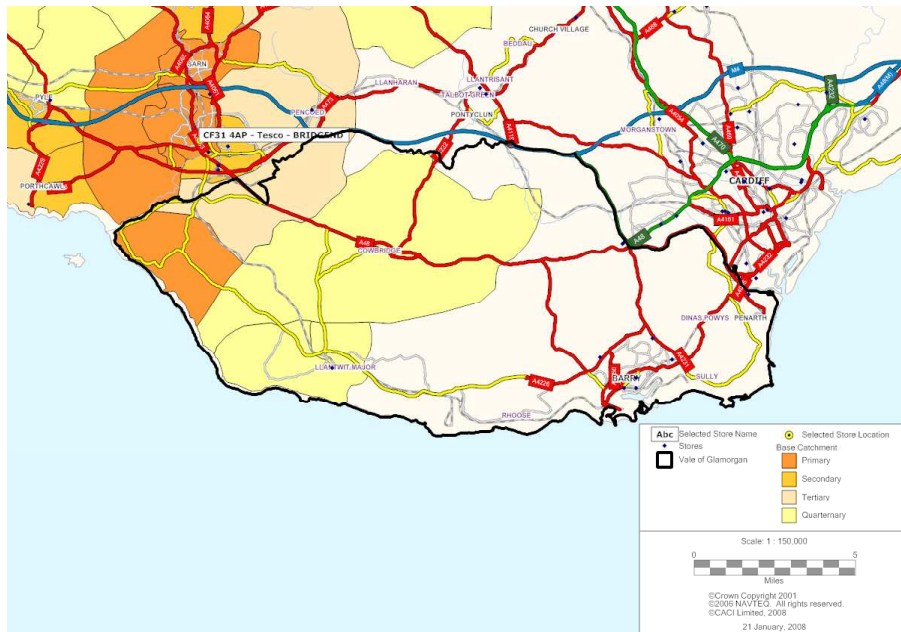
**Fig 24.14: Lidl - Cardiff**



**Fig 24.15: Tesco Extra – Cardiff**

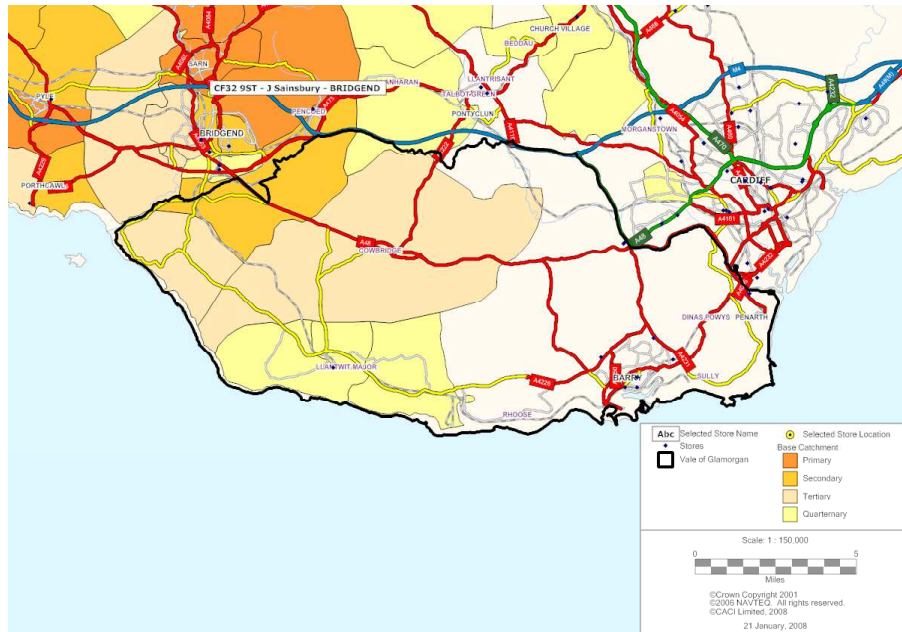


**Fig 24.16: Tesco – Bridgend**



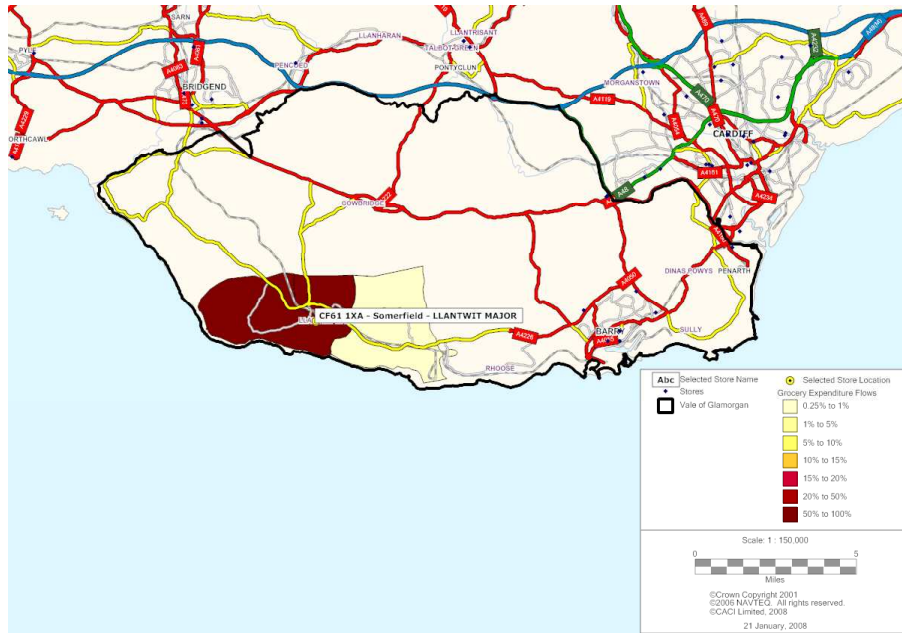


**Fig 24.17: Sainsbury's - Bridgend**

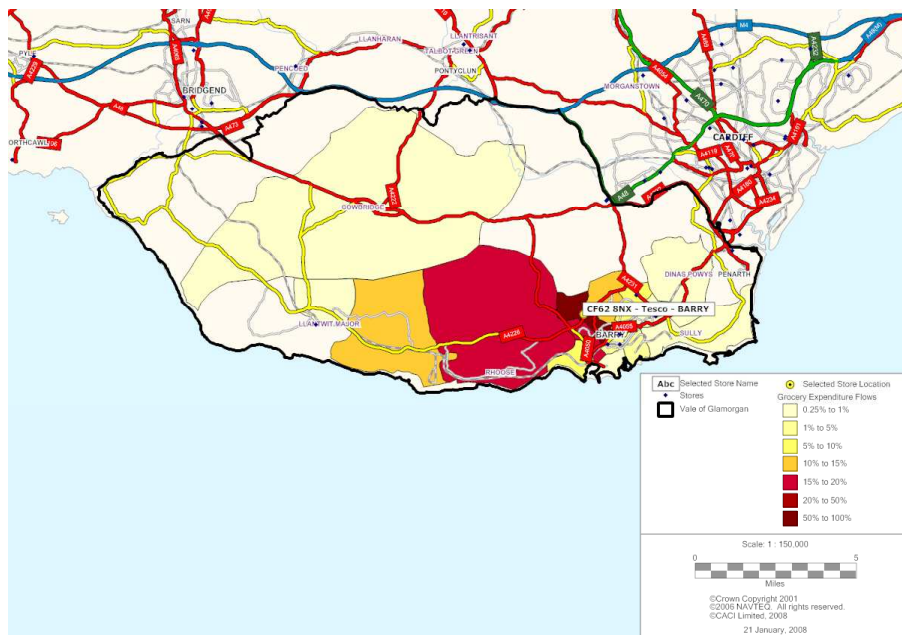


## FLOW MAPS

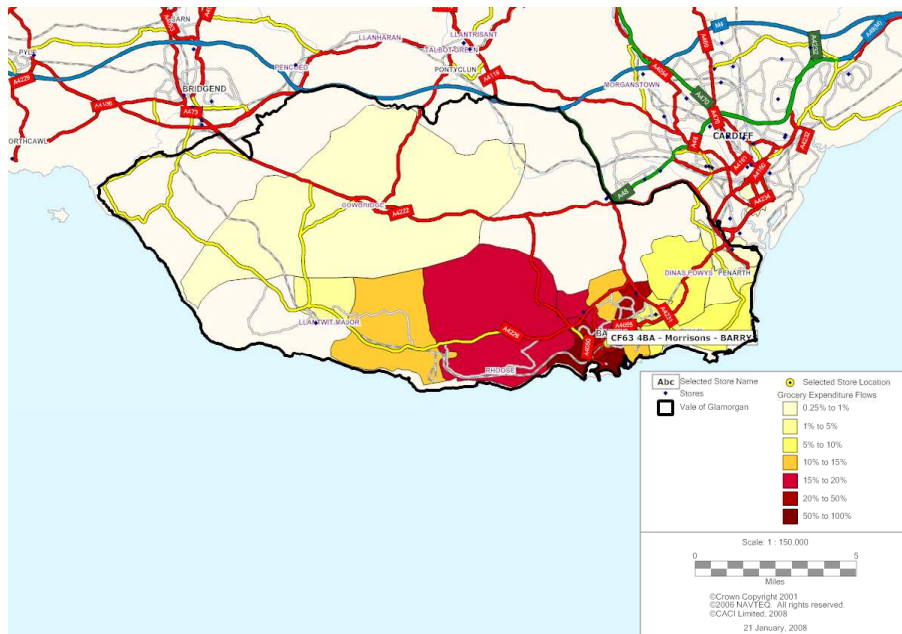
**Fig 25.1: Somerfield - Llantwit**



**Fig 25.2: Tesco - Barry**



**Fig 25.3: Morrisons - Barry**



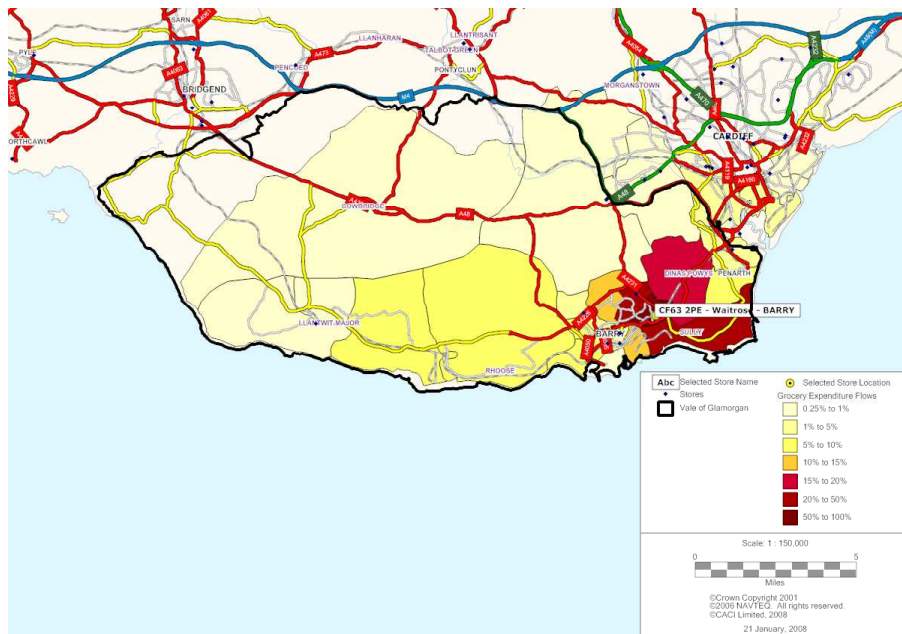
**Fig 25.4: Iceland - Barry**



**Fig 25.5: Home Bargain (Netto) - Barry**



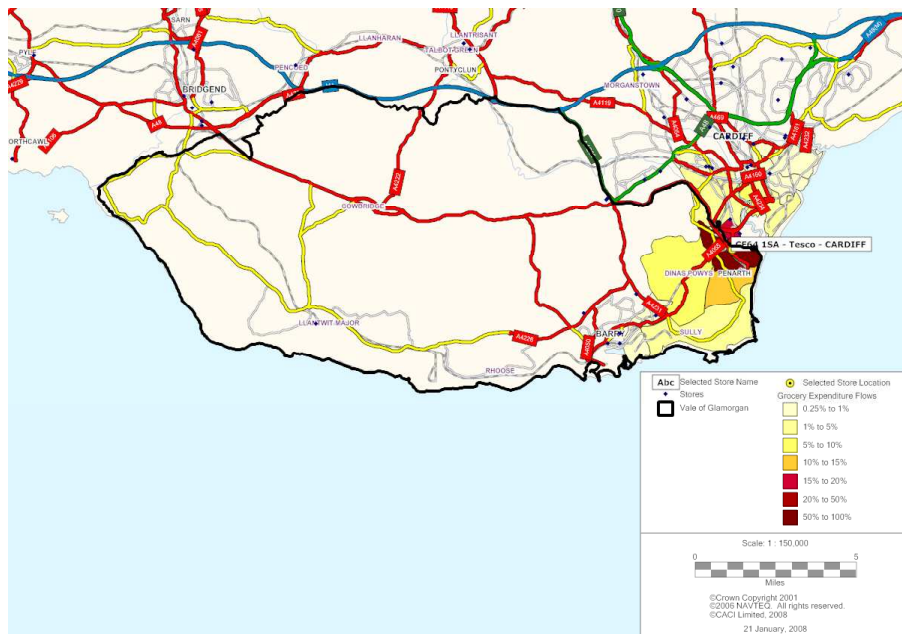
**Fig 25.6: Waitrose - Barry**



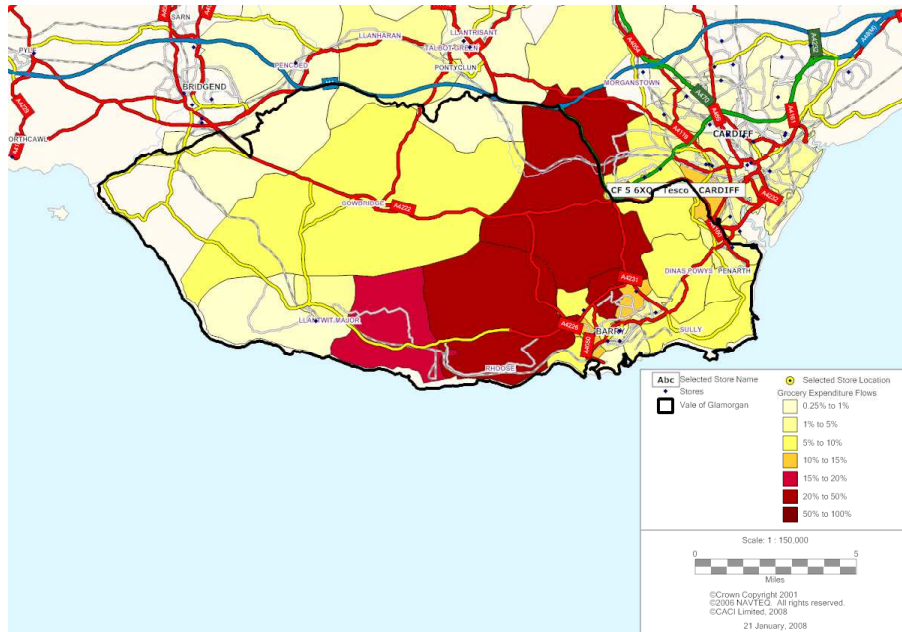
**Fig 25.7: Lidl - Barry**



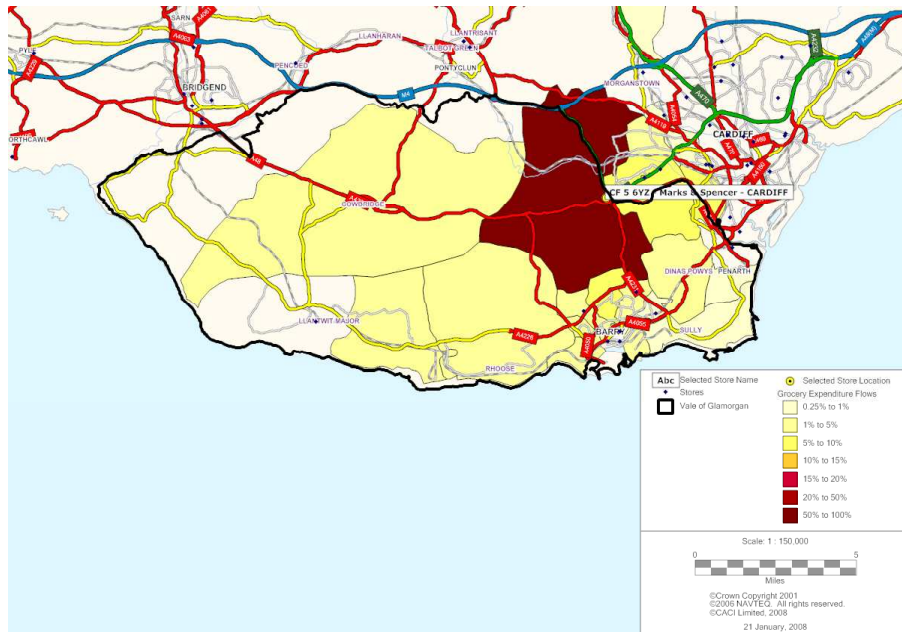
**Fig 25.8: Tesco - Penarth**



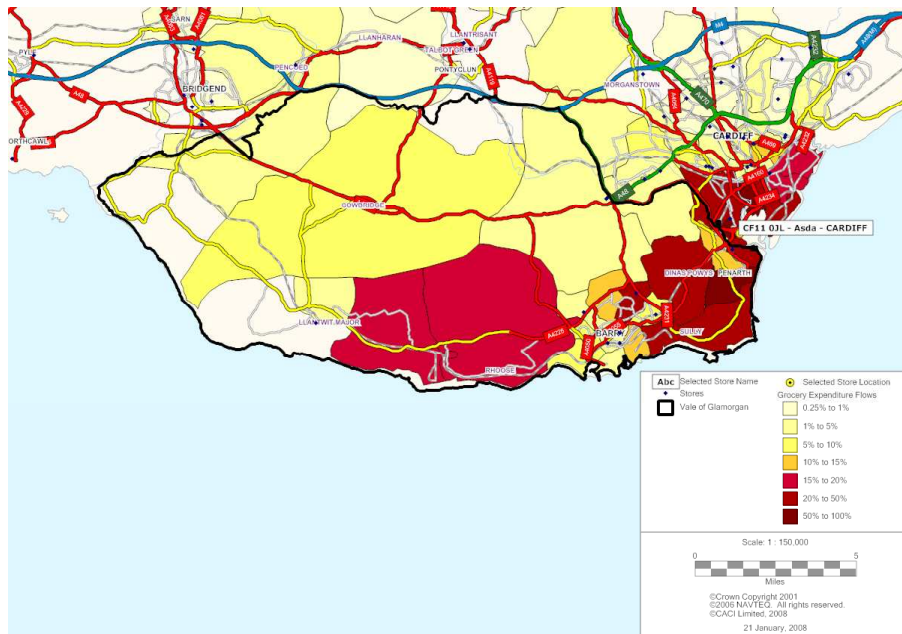
**Fig 25.9: Tesco - Cardiff**



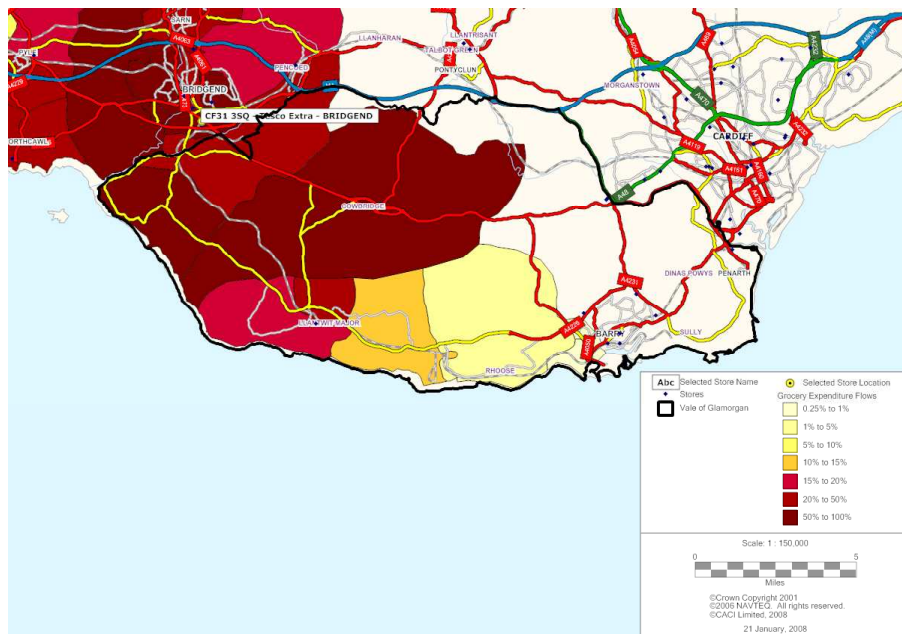
**Fig 25.10: Marks & Spencer - Cardiff**



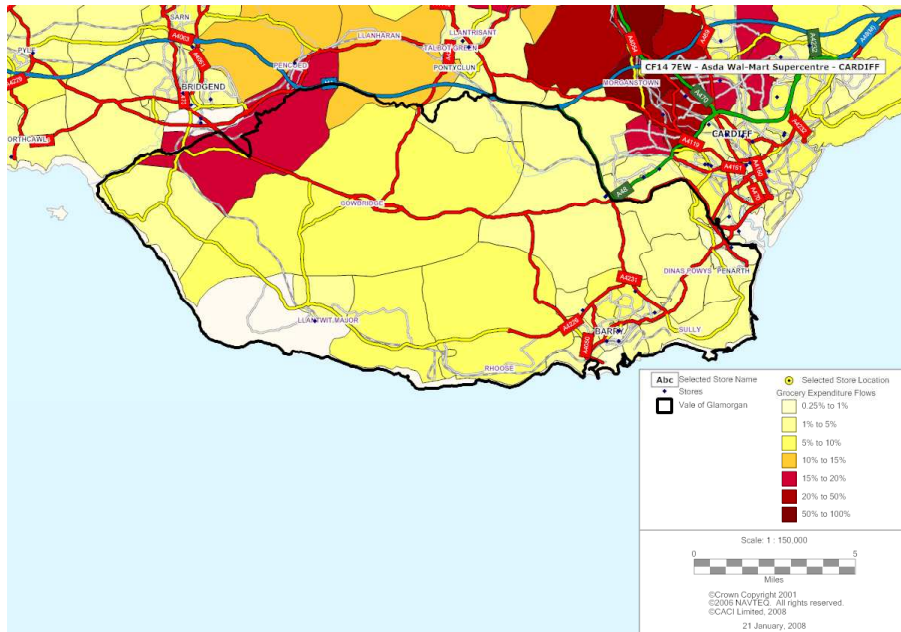
**Fig 25.11: Asda - Cardiff**



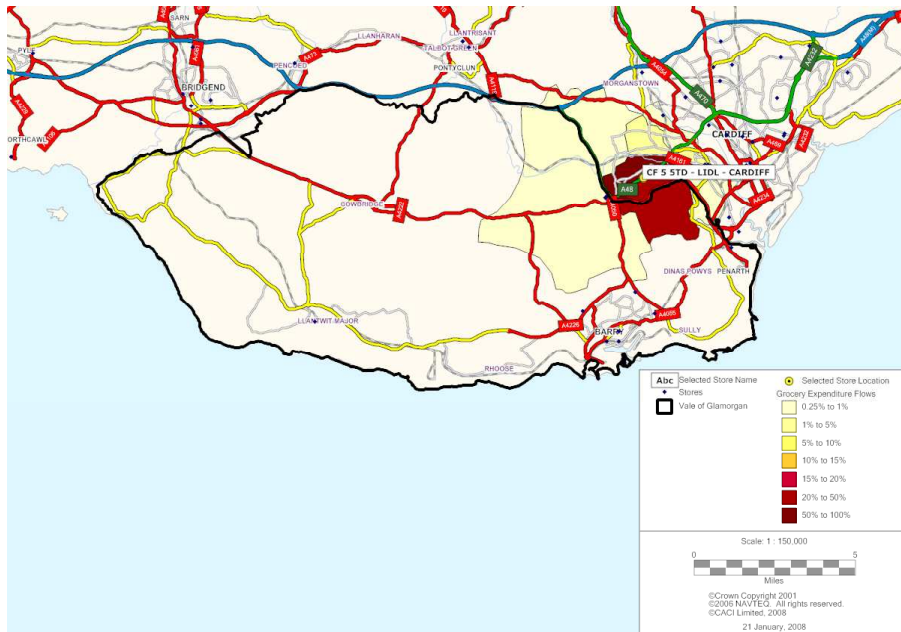
**Fig 25.12: Tesco Extra - Bridgend**



**Fig 25.13: Asda Wal-Mart Superstore - Cardiff**

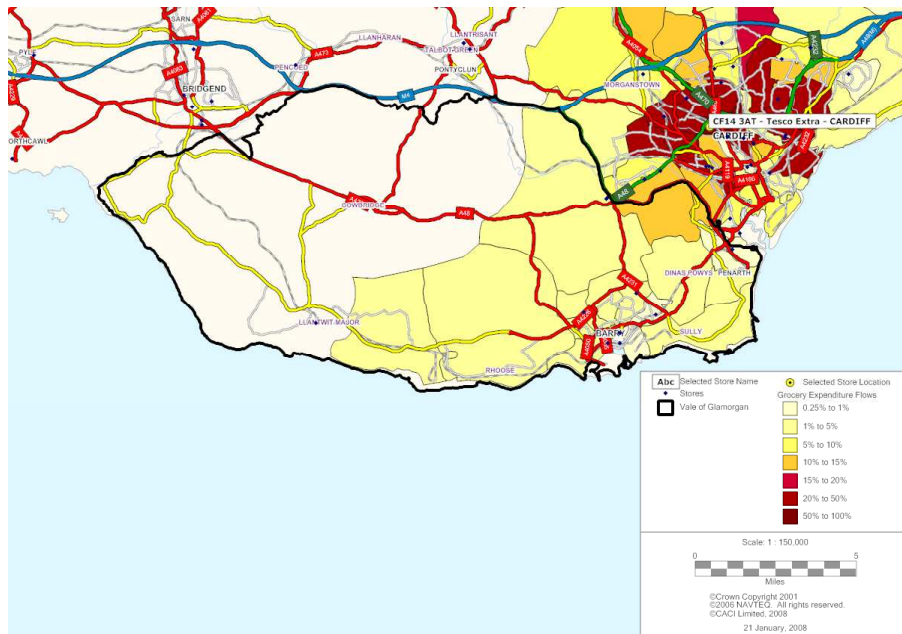


**Fig 25.14: Lidl - Cardiff**

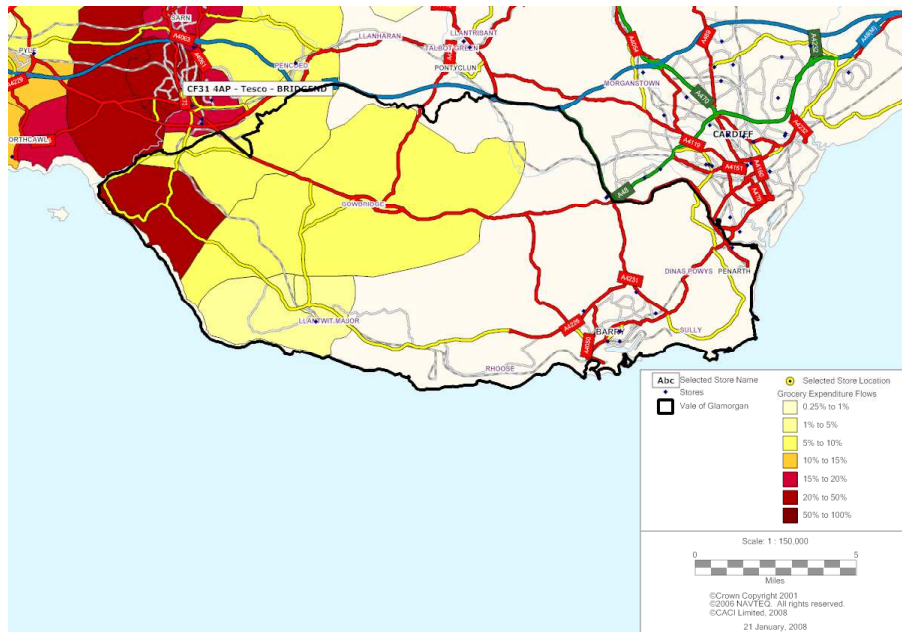




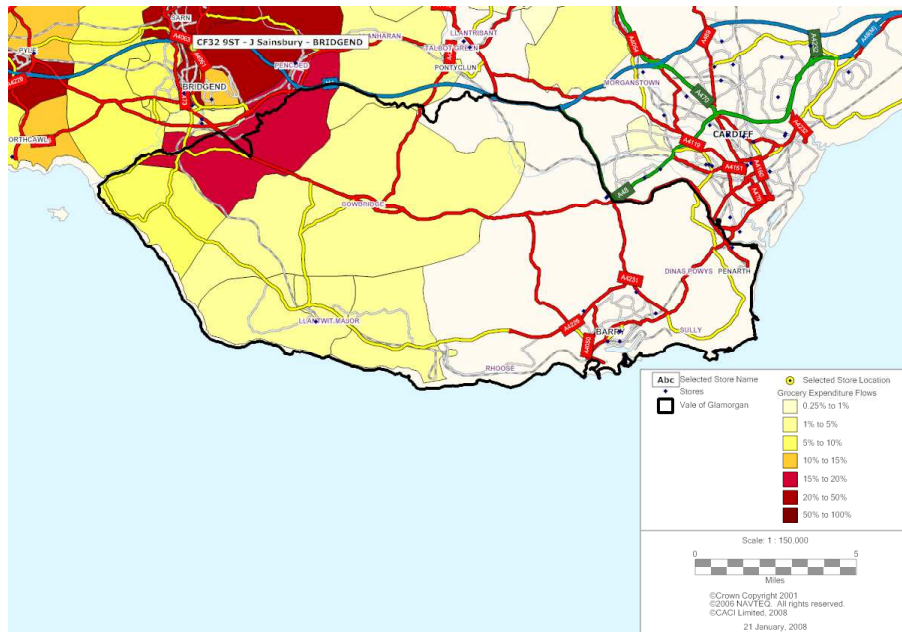
**Fig: 25.15 Tesco Extra – Cardiff**



**Fig: 25.16 Tesco – Bridgend**



**Fig: 25.17 Sainsbury's - Bridgend**



## 4.0 Comparison Goods Capacity Assessment

### Current Comparison Floorspace Provision

- 4.1 Fig. 26 provides a summary of current non-vacant, net internal comparison goods retail floorspace within the Vale's six Retail Footprint Centres<sup>10</sup> Barry, Penarth, Cowbridge, Llantwit Major, Dinas Powys and Culverhouse Cross, by goods category. These estimates have been based on the Vale of Glamorgan Council's 2007 audit data of gross floorspace estimates, using a ratio of 0.7 to convert from gross to net floorspace.

**Fig. 26: Comparison Goods Floorspace (sq m net)**

Retail Category	Barry Floorspace (net sq m)	Penarth Floorspace (Net sq m)	Cowbridge Floorspace (Net sq m)	Llantwit Major Floorspace (Net sq m)	Dinas Powys Floorspace (Net sq m)	Culverhouse Cross (Net sq m)	Total Floorspace (Net sq m)
Charity	790	477	93	127			1,487
Clothing, Accessories & Sports	3,596	1,717	1,250	360	34	1,136	8,093
Electrical Goods	575	608				4,695	5,878
Health and Beauty	54		70				192
Household Goods and Gifts	6,488	2,317	1,876	364	179	4,285	18,947
Music, Video, Games, Toys, Books and Stationery	1,435	706	41				2,182
<b>Grand Total</b>	<b>12,938</b>	<b>5,825</b>	<b>3,330</b>	<b>851</b>	<b>213</b>	<b>10,116</b>	<b>36,779</b>

**Source: Vale of Glamorgan Council Audits (2007)**

- 4.2 To estimate residential catchment, market shares and hence centre turnover, CACI have employed their Retail Footprint model, which models resident's choice of location for comparison goods shopping, based on factors such as the attractiveness of the centre, relative distance to centre and competing centres.
- 4.3 CACI have also performed their own qualitative assessments of the centres, which in combination with the audit fascia information which is undertaken to assess the sizing of the fascia of the outlets. This has enabled CACI to update their baseline Retail Footprint with the most up-to-date information on the retail mix, attractiveness, market positioning and role of each centre. All of these characteristics are taken into account in the Retail Footprint model to estimate the residential catchment and market shares for each centre.
- 4.4 Figure 27 summarises key attributes of each centre used by the Retail Footprint model.

<sup>10</sup> Retailers which sell comparable goods

**Fig. 27: Key attributes of each centre**

Centre	Role	No. Comparison Goods Units	Proportion of Comparison Goods Units Independent	Retail Footprint Score	Market Positioning
Barry	Average Metropolitan Towns	128	86.7%	220	Mass
Penarth	Average Urban Centres Non-London	72	93.1%	106	Mass
Cowbridge	Small Rural Centres	57	100.0%	66	N/A
Llantwit Major	Small Rural Centres	20	95.0%	23	N/A
Dinas Powys	Small Local Centres	5	100.0%	6	N/A
Culverhouse Cross	Retail Parks Minority Fashion	9	0.0%	39	Mass

Source: Glamorgan Council and CACI Audits (2007)

### Analysis of Residential Catchment Areas

- 4.5 In order to perform a comparison goods capacity assessment, catchment areas need to be defined to assess the level of comparison goods spend attributable to the towns Barry, Penarth, Cowbridge, Llantwit Major, Dinas Powys and Culverhouse Cross. This has been defined by CACI using the Retail Footprint model and is represented in Figs 28.1 – 28.7.
- 4.6 The modelled retail catchments are broken down into four sub-catchment areas. The Primary Catchment area is defined by where the first 50% of shoppers come from. The Secondary Catchment is defined by where the next 25% of shoppers come from. Tertiary and Quaternary catchments are similarly defined, representing where the next 15% and final 10% of shoppers come from.
- 4.7 The combination of the Primary, and Secondary catchments is referred to as the core catchment area. This area represents where 75% of a centre's spend comes from. The combination of Primary, Secondary and Tertiary catchments is referred to as the major catchment area. This area represents where the majority (90%) of a centre's spend comes from.
- 4.8 Due to the definition of these areas at Postcode Sector level, the actual proportion of shoppers coming from any particular sub-catchment may vary slightly, with the cut-off marks as close to the targets of 50%, 25%, 15% and 10% as possible.
- 4.9 Retail Footprint is also able to provide information on the estimated market share of resident-based spend that a centre is achieved, by postcode sector.
- 4.10 By multiplying market share within each postcode sector by resident-based spend on comparison goods, and adding up this spend component across all postcode sectors, it is possible to obtain an estimate of spend attributable to each centre. This is referred to as the market potential of the centre.
- 4.11 Catchment analysis is also useful to understand where and who the centre's potential resident-based shoppers are, and what choices they have to shop in relation to the centre being analysed.

### Catchment Analysis and Estimates of market potential

- 4.12 The Vale's Population Projections have been incorporated into the modelling to reflect how housing market change will affect the development of the retail offer within the borough. The addition of 7,500 housing units greatly increases the retail potential of the area in the

medium term, adding a further 15,000<sup>11</sup> residents to the forecasted population growth for 2007-2026.

**Fig. 28.1: Barry Catchment Expenditure Statistics 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	27,536	12,116	£60.5	56.3%	£34.1
Secondary	22,222	9,298	£47.0	23.2%	£10.9
Tertiary	32,211	13,457	£77.4	11.0%	£8.4
Quaternary	191,504	83,708	£450.6	1.3%	£5.7
<b>Total</b>	<b>273,473</b>	<b>118,579</b>	<b>£635.7</b>	<b>9.3%</b>	<b>£59.2</b>

**Fig. 28.2: Penarth Catchment Expenditure Statistics 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	49,177	21,575	£116.4	13.2%	£15.3
Secondary	94,621	42,243	£211.5	3.2%	£6.6
Tertiary	126,564	53,221	£291.8	1.4%	£4.5
Quaternary	224,199	93,238	£545.0	0.5%	£2.9
<b>Total</b>	<b>494,561</b>	<b>210,277</b>	<b>£1,164.8</b>	<b>2.5%</b>	<b>£29.1</b>

**Fig. 28.3: Cowbridge Catchment Expenditure Statistics 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	14,449	5,924	£37.1	22.4%	£8.2
Secondary	68,450	28,801	£168.3	2.2%	£3.6
Tertiary	102,914	43,556	£229.4	0.9%	£2.0
Quaternary	106,958	45,145	£237.1	0.5%	£1.1
<b>Total</b>	<b>292,771</b>	<b>123,426</b>	<b>£672.0</b>	<b>2.3%</b>	<b>£15.2</b>

<sup>11</sup> Source: CACI

**Fig. 28.4: Llantwit Major Catchment Expenditure Statistics 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	10,068	4,029	£24.1	24.8%	£6.0
Secondary	4,535	1,668	£10.2	7.3%	£0.7
Tertiary	6,486	2,800	£16.2	2.5%	£0.4
Quaternary	16,121	6,812	£40.2	1.0%	£0.4
<b>Total</b>	<b>37,210</b>	<b>15,309</b>	<b>£91.0</b>	<b>8.3%</b>	<b>£7.5</b>

**Fig. 28.5: Dinas Powys Catchment Expenditure Statistics 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	23,832	10,138	£54.8	1.2%	£0.6
Secondary	21,159	9,157	£50.4	0.6%	£0.3
Tertiary	21,097	9,282	£45.6	0.4%	£0.1
Quaternary	15,116	6,794	£33.9	0.3%	£0.1
<b>Total</b>	<b>81,204</b>	<b>35,371</b>	<b>£184.9</b>	<b>0.7%</b>	<b>£1.2</b>

**Fig. 28.6: Culverhouse Cross Catchment Expenditure 2007**

Catchment	Total Population	Total Households	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	60,378	25,518	£128.2	6.0%	£7.7
Secondary	103,509	45,021	£246.2	1.7%	£4.2
Tertiary	98,524	42,603	£239.9	1.0%	£2.4
Quaternary	150,108	63,209	£343.5	0.5%	£1.5
<b>Total</b>	<b>412,519</b>	<b>176,351</b>	<b>£958.0</b>	<b>1.7%</b>	<b>£16.0</b>

- 4.13 Currently Culverhouse Cross is categorised as Retail Park Minority Fashion, having only 5.8% of its retail offer as fashion. In exploring the potential of the site as a better performing centre relative to the amount of retail floorspace, a class change scenario was carried out where the centre was re-categorised as a Retail Park Majority Fashion, that is where at least 50% of the units at the site would be fashion operator occupied. The results of this scenario (tested for 2007 variables) are shown below to illustrate the difference in performance.

**Fig. 28.7: Culverhouse Cross Expenditure Analysis – Class Change from Retail Park Minority Fashion to Retail Park Majority Fashion 2007**

Catchment	Total Population in enlarged catchment	Total Households in enlarged catchment	Total Comparison Goods Expenditure (£million)	Market Share of Expenditure (%)	Resident-Based Comparison Goods Market Potential (£million)
Primary	128,461	55,266	£288.0	5.2%	£14.9
Secondary	173,840	74,590	£418.4	2.0%	£8.2
Tertiary	264,313	111,262	£591.4	0.8%	£4.6
Quaternary	348,174	132,647	£784.7	0.4%	£3.0
<b>Total</b>	<b>914,788</b>	<b>373,765</b>	<b>£2,082.5</b>	<b>1.5%</b>	<b>£30.8</b>

**Fig. 29.1: 2007 Turnover Potential**

Centre	Market Potential (£m)	Turnover Potential (£m)	Adjustment	Turnover Potential (£m)
Barry	£59.2	£42.2	3.86%	£40.5
Penarth	£29.1	£20.7	3.86%	£19.9
Cowbridge	£15.2	£10.9	3.86%	£10.4
Llantwit Major	£7.6	£5.4	3.86%	£5.2
Dinas Powys	£1.2	£0.9	3.86%	£0.8
Culverhouse Cross	£16.0	£11.4	3.86%	£11.0
<b>Total</b>	<b>£128.4</b>	<b>£91.4</b>		<b>£87.9</b>

**Fig. 29.2: 2007 Trading Density**

Centre	Turnover Potential (£m)	Comparison Retail Floorspace (sq m net)	Trading Density (£ Per sq m)
Barry	£40.5	12,938	£3,134
Penarth	£19.9	5,825	£3,420
Cowbridge	£10.4	3,330	£3,134
Llantwit Major	£5.2	851	£6,097
Dinas Powys	£0.8	213	£3,972
Culverhouse Cross	£11.0	10,116	£1,084
<b>Total</b>	<b>£87.9</b>	<b>33,273</b>	<b>£2,642</b>

**Fig. 29.3: 2007 Capacity Assessment**

Centre	Turnover Potential (£m)	Target Trading Density (£ Per sq m)	Capacity (Turnover/Target Density) Sq M net	Headroom (Capacity – Current Retail Floorspace) Sq M net
Barry	£40.5	£3,000	13,515	577
Penarth	£19.9	£3,000	6,641	816
Cowbridge	£10.4	£2,000	5,217	1,887
Llantwit Major	£5.2	£2,000	2,594	1,743
Dinas Powys	£0.8	£2,000	423	210
Culverhouse Cross	£11.0	£3,000	3,657	-6,459
<b>Total</b>	<b>£87.9</b>		<b>32,047</b>	<b>-1,226</b>

**Fig. 30.1: 2012 Turnover Potential**

Centre	Market Potential (£m)	Turnover Potential (£m)	Adjustment	Turnover Potential (£m)
Barry	£73.6	£52.4	8.86%	£47.7
Penarth	£30.7	£21.8	8.86%	£19.9
Cowbridge	£15.8	£11.3	8.86%	£10.3
Llantwit Major	£8.1	£5.7	8.86%	£5.2
Dinas Powys	£1.4	£1.0	8.86%	£0.9
Culverhouse Cross	£17.3	£12.3	8.86%	£11.2
<b>Total</b>	<b>£146.8</b>	<b>£104.5</b>		<b>£95.2</b>

**Fig. 30.2: 2012 Trading Density**

Centre	Turnover Potential (£m)	Comparison Retail Floorspace (sq m net)	Trading Density (£ Per sq m)
Barry	£47.7	12,938	£3,690
Penarth	£19.9	5,825	£3,416
Cowbridge	£10.3	3,330	£3,088
Llantwit Major	£5.2	851	£6,153
Dinas Powys	£0.9	213	£4,132
Culverhouse Cross	£11.2	10,116	£1,108
<b>Total</b>	<b>£95.2</b>	<b>33,273</b>	<b>£2,863</b>



**Fig. 30.3: 2012 Capacity Assessment**

Centre	Turnover Potential (£m)	Target Trading Density (£ Per sq m)	Capacity (Turnover/Target Density) Sq M net	Headroom (Capacity – Current Retail Floorspace) Sq M net
Barry	£47.7	£3,000	15,914	2,976
Penarth	£19.9	£3,000	6,632	807
Cowbridge	£10.3	£2,000	5,142	1,812
Llantwit Major	£5.2	£2,000	2,618	1,767
Dinas Powys	£0.9	£2,000	440	227
Culverhouse Cross	£11.2	£3,000	3,737	-6,379
<b>Total</b>	<b>£95.2</b>		<b>34,483</b>	<b>1,210</b>

**Fig. 31.1: 2017 Turnover Potential**

Centre	Market Potential (£m)	Turnover Potential (£m)	Adjustment	Turnover Potential (£m)
Barry	£75.2	£53.5	13.86%	£46.1
Penarth	£31.5	£22.4	13.86%	£19.3
Cowbridge	£16.3	£11.6	13.86%	£10.0
Llantwit Major	£8.3	£5.9	13.86%	£5.1
Dinas Powys	£1.4	£1.0	13.86%	£0.9
Culverhouse Cross	£17.7	£12.6	13.86%	£10.9
<b>Total</b>	<b>£150.3</b>	<b>£107.0</b>		<b>£92.2</b>

**Fig. 31.2: 2017 Trading Density**

Centre	Turnover Potential (£m)	Comparison Retail Floorspace (sq m net)	Trading Density (£ Per sq m)
Barry	£46.1	12,938	£3,565
Penarth	£19.3	5,825	£3,313
Cowbridge	£10.0	3,330	£2,999
Llantwit Major	£5.1	851	£5,962
Dinas Powys	£0.9	213	£4,007
Culverhouse Cross	£10.9	10,116	£1,073
<b>Total</b>	<b>£92.2</b>	<b>33,273</b>	<b>£2,771</b>

**Fig. 31.3: 2017 Capacity Assessment**

Centre	Turnover Potential (£m)	Target Trading Density (£ Per sq m)	Capacity (Turnover/Target Density) Sq M net	Headroom (Capacity – Current Retail Floorspace) Sq M net
Barry	£46.1	£3,000	15,375	2,437
Penarth	£19.3	£3,000	6,432	607
Cowbridge	£10.0	£2,000	4,994	1,664
Llantwit Major	£5.1	£2,000	2,537	1,686
Dinas Powys	£0.9	£2,000	427	214
Culverhouse Cross	£10.9	£3,000	3,618	-6,498
<b>Total</b>	<b>£92.2</b>		<b>33,382</b>	<b>109</b>

**Fig. 32.1: 2026 Turnover Potential**

Centre	Market Potential (£m)	Turnover Potential (£m)	Adjustment	Turnover Potential (£m)
Barry	£78.2	£55.7	14.86%	£47.4
Penarth	£32.7	£23.3	14.86%	£19.8
Cowbridge	£17.0	£12.1	14.86%	£10.3
Llantwit Major	£8.7	£6.2	14.86%	£5.3
Dinas Powys	£1.5	£1.0	14.86%	£0.9
Culverhouse Cross	£18.4	£13.1	14.86%	£11.1
<b>Total</b>	<b>£156.4</b>	<b>£111.4</b>		<b>£94.8</b>

**Fig. 32.2: 2026 Trading Density**

Centre	Turnover Potential (£m)	Comparison Retail Floorspace (sq m net)	Trading Density (£ Per sq m)
Barry	£47.4	12,938	£3,663
Penarth	£19.8	5,825	£3,404
Cowbridge	£10.3	3,330	£3,101
Llantwit Major	£5.3	851	£6,169
Dinas Powys	£0.9	213	£4,134
Culverhouse Cross	£11.1	10,116	£1,101
<b>Total</b>	<b>£94.8</b>	<b>33,273</b>	<b>£2,849</b>

**Fig. 32.3: 2026 Capacity Assessment**

Centre	Turnover Potential (£m)	Target Trading Density (£ Per sq m)	Capacity (Turnover/Target Density) Sq M net	Headroom (Capacity – Current Retail Floorspace) Sq M net
Barry	£47.4	£3,000	5,797	2,859
Penarth	£19.8	£3,000	6,609	784
Cowbridge	£10.3	£2,000	5,163	1,833
Llantwit Major	£5.3	£2,000	2,625	1,774
Dinas Powys	£0.9	£2,000	440	227
Culverhouse Cross	£11.1	£3,000	3,711	-6,405
<b>Total</b>	<b>£94.8</b>		<b>34,345</b>	<b>1,072</b>

- 4.14 This data reflects that there is little room for expansion of retail floorspace after recent developments, in terms of the potential catchment within the Vale of Glamorgan towns of Barry (as defined), Penarth, Cowbridge, Llantwit Major, Dinas Powys and Culverhouse Cross.

**Fig. 33: Competition Assessment: Barry's Comparison Offer by Category**

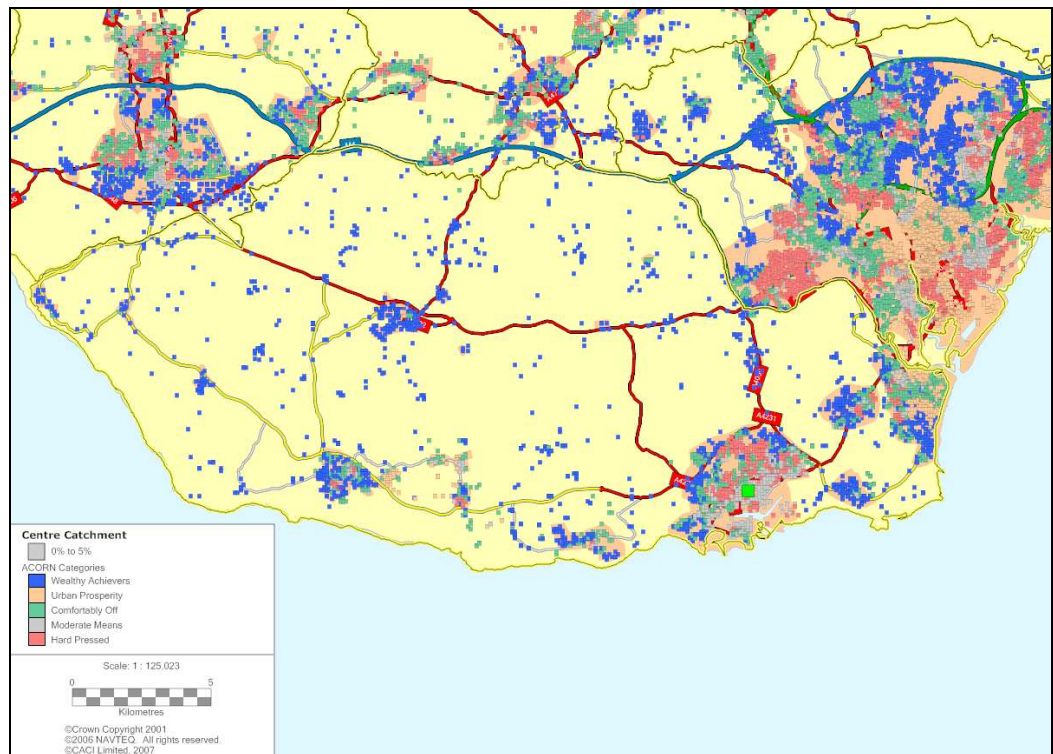
Retail Category	Barry	Cardiff	Bridgend	Pontypridd	Competing Centre Average	Index (Competing Centres = 100)
Womenswear	14.3%	24.0%	16.3%	11.4%	17.2%	83
Menswear	3.6%	3.9%	2.0%	2.3%	2.7%	130
Childrenswear / Maternity / Babywear	3.6%	1.7%	4.1%	2.3%	2.7%	132
Mixed Clothing	7.1%	10.0%	6.1%	6.8%	7.7%	93
Footwear	10.7%	9.6%	10.2%	9.1%	9.6%	111
Jewellers	0.0%	4.8%	4.1%	4.5%	4.5%	0
Fashion Accessories	0.0%	2.2%	4.1%	4.5%	3.6%	0
<b>Clothing &amp; Accessories Sub-Total</b>	<b>39.3%</b>	<b>56.3%</b>	<b>46.9%</b>	<b>40.9%</b>	<b>48.1%</b>	<b>82</b>
Chemists	21.4%	0.9%	4.1%	9.1%	4.7%	458
Drugs & Toiletries	3.6%	3.5%	2.0%	4.5%	3.4%	106
Health Foods	0.0%	1.3%	2.0%	4.5%	2.6%	0
<b>Health &amp; Beauty Sub-Total</b>	<b>25.0%</b>	<b>5.7%</b>	<b>8.2%</b>	<b>18.2%</b>	<b>10.7%</b>	<b>234</b>
Toys	0.0%	2.6%	0.0%	0.0%	0.9%	0
Music & Video	0.0%	1.3%	0.0%	0.0%	0.4%	0
Computer Software & Accessories	0.0%	2.2%	2.0%	2.3%	2.2%	0
Cards & Stationery	10.7%	2.6%	4.1%	6.8%	4.5%	238
Sportswear & Equipment	3.6%	7.0%	8.2%	6.8%	7.3%	49
Books	0.0%	1.7%	0.0%	0.0%	0.6%	0
Gifts	0.0%	4.4%	0.0%	0.0%	1.5%	0
<b>Leisure Goods Sub-Total</b>	<b>14.3%</b>	<b>21.8%</b>	<b>14.3%</b>	<b>15.9%</b>	<b>17.3%</b>	<b>82</b>
Drapery / Soft Furnishings	0.0%	0.0%	0.0%	2.3%	0.8%	0
Variety Stores	10.7%	2.6%	10.2%	9.1%	7.3%	147
Department Stores	0.0%	0.9%	0.0%	0.0%	0.3%	0
<b>Household Goods Sub-Total</b>	<b>10.7%</b>	<b>3.5%</b>	<b>10.2%</b>	<b>11.4%</b>	<b>8.4%</b>	<b>128</b>
Electrical	0.0%	1.7%	2.0%	0.0%	1.3%	0
Camera	0.0%	0.9%	0.0%	0.0%	0.3%	0
<b>Electrical Goods Sub-Total</b>	<b>0.0%</b>	<b>2.6%</b>	<b>2.0%</b>	<b>0.0%</b>	<b>1.6%</b>	<b>0</b>
Mobile Phones	7.1%	5.7%	10.2%	9.1%	8.3%	86
Opticians	3.6%	2.2%	6.1%	2.3%	3.5%	101
<b>Opticians and Mobile Phones Sub-Total</b>	<b>10.7%</b>	<b>7.9%</b>	<b>16.3%</b>	<b>11.4%</b>	<b>11.9%</b>	<b>90</b>
DIY High Street	0.0%	0.4%	0.0%	0.0%	0.1%	0
Catalogue Showrooms	0.0%	0.4%	2.0%	0.0%	0.8%	0
General Furniture	0.0%	1.3%	0.0%	2.3%	1.2%	0
<b>Other Non-Food High Street Retailers Sub-Total</b>	<b>0.0%</b>	<b>2.2%</b>	<b>2.0%</b>	<b>2.3%</b>	<b>2.2%</b>	<b>0</b>

- 4.15 CACI has employed their Retail Footprint comparison goods catchment and turnover model to estimate current and future turnover potential at each of the three main town centres. Converting this turnover potential into capacity, CACI have used target-trading densities (floorspace efficiency) to determine 'headroom' estimates for each town. A separate future floorspace needs assessment has been performed for each centre. Taking into account the impacts of resident population and Internet spend impacts, the following conclusions were drawn on present and future need.
- 4.16 Barry town centre draws strong performance from its high percentage (87%) of independent comparison retail, and despite the proximity of Cardiff it has a relatively strong hold on its primary catchment. The current turnover potential is £40.5m (see Fig 29.2). At a target trading density for comparison goods of £3,000 per m<sup>2</sup>, only small comparison headroom is currently supported - an addition of 577m<sup>2</sup> (see Fig 29.3). Under current population projections however, this headroom will increase to 5,797m<sup>2</sup> (see fig 32.3) by 2026. Barry's retail mix highlights the areas that would increase the appeal of Barry and reclaim more shoppers from secondary and tertiary catchments - the crucial categories that are underrepresented are Clothing, Leisure Goods and Electrical Goods.
- 4.17 Penarth town centre has a current turnover potential of £19.9m (see Fig. 29.2) with a trading density of £3,420 per m<sup>2</sup>. It currently supports slightly more comparison headroom than Barry, at 816m<sup>2</sup> (see Fig 29.3), however the comparison headroom in Barry will overtake that of Penarth by 2012. Despite the population adjustments the amount of

headroom supported in Penarth will not change significantly going forward to 2026.

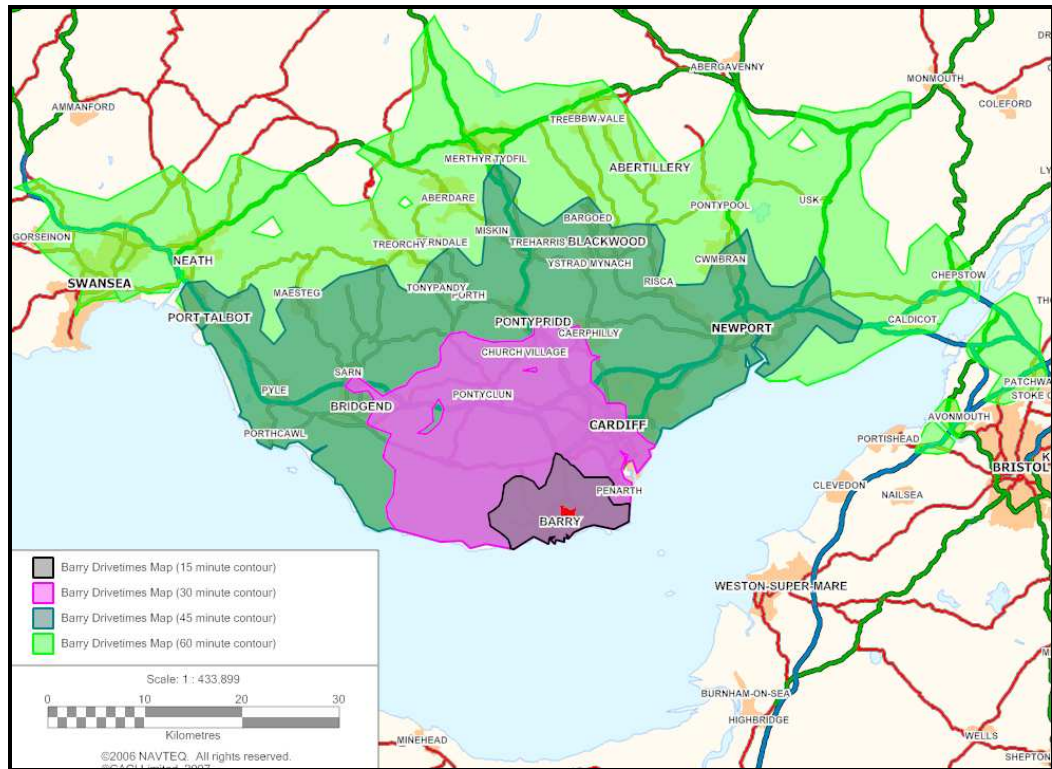
- 4.18 Cowbridge has a current turnover potential of £10.4m (see Fig 29.2) and a trading density of £3,134 per m<sup>2</sup>. Due to market scale, a target trading density of £2,000 per m<sup>2</sup> is used to assess capacity and headroom. Currently 1,887m<sup>2</sup> (see Fig 29.3) of additional comparison floorspace is supported in Cowbridge, and under current housing and population projections this does not change significantly going forward to 2026.
- 4.19 No headroom for additional floorspace was identified at Culverhouse Cross. Its current turnover potential is £11.2m (see Fig 30.1), less than the turnover the current retail operators on the site are expected to be making. Looking ahead to 2026, the lack of headroom is not expected to change significantly across any of the planning period years. Currently Culverhouse Cross is categorised as Retail Park Minority Fashion, having only 5.8% of its retail offer as fashion. Higher comparison goods figures are achieved in Retail Parks where there is a stronger presence of fashion retailers.
- 4.20 The analysis has confirmed that the other two retail centres in the Vale, Llantwit Major a Rural Centre and Dinas Powys a Local Centre, do not contribute significantly to comparison goods turnover within the Vale of Glamorgan. (See Fig 29.1).

**Fig. 34: Study Area by ACORN Type Concentrations**

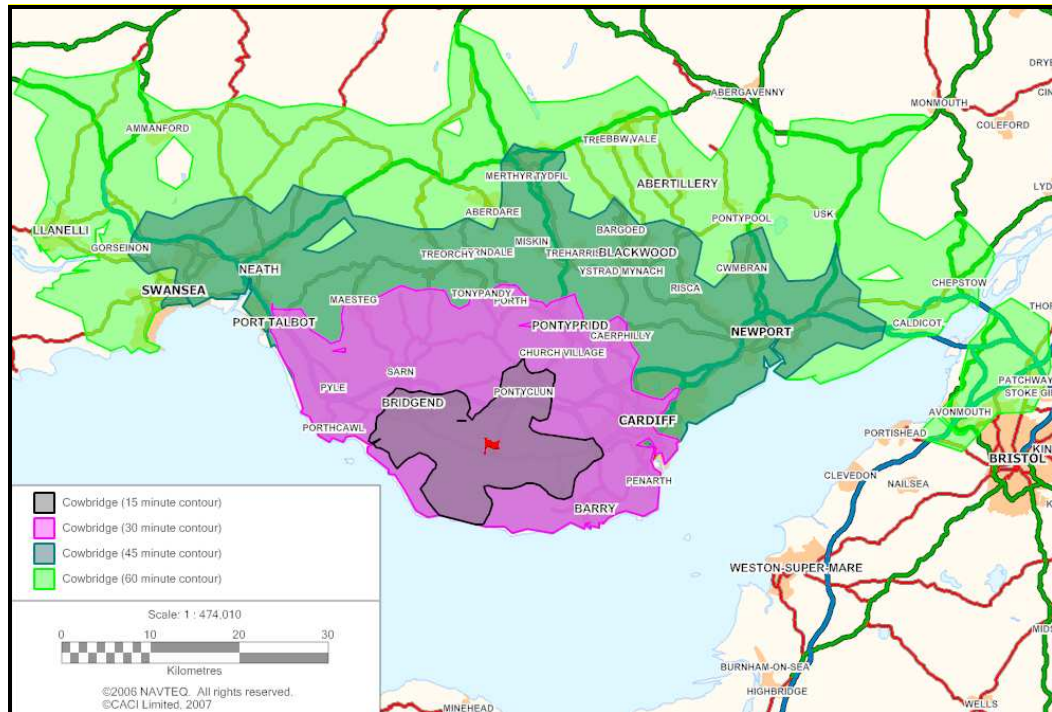


- 4.21 ACORN groups the UK population into 5 categories and 56 types. By analysing key census variables and lifestyle characteristics, it provides an understanding of the different types of consumers.

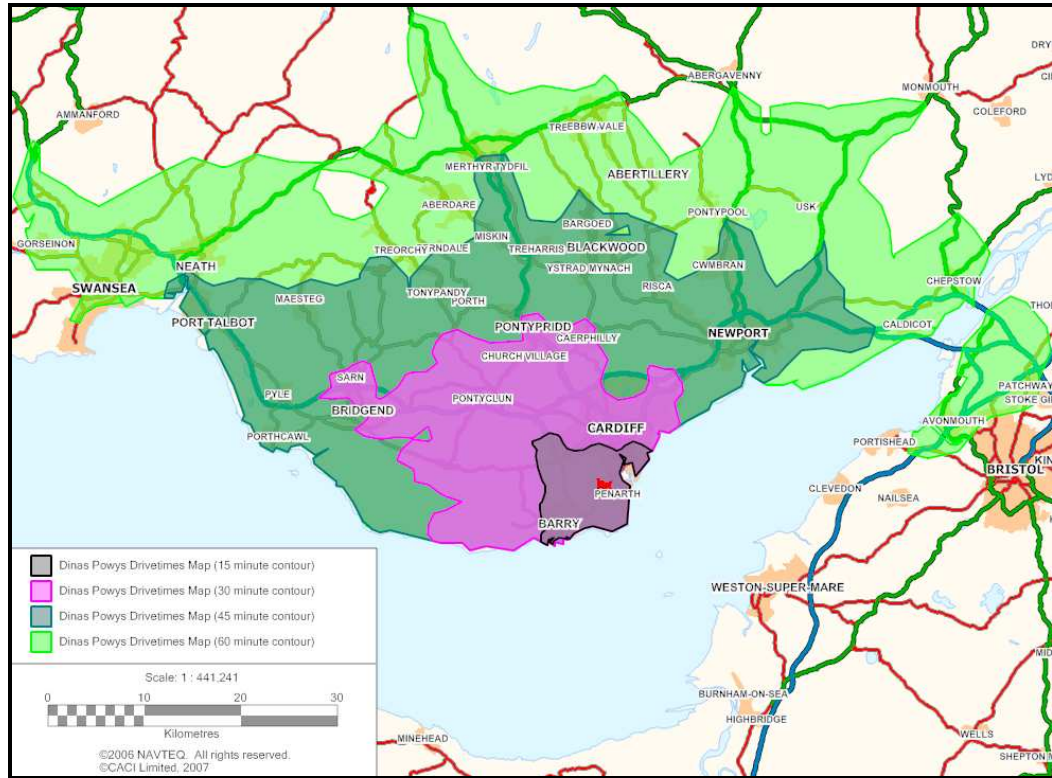
**Fig. 34.1: Drive times around Barry**



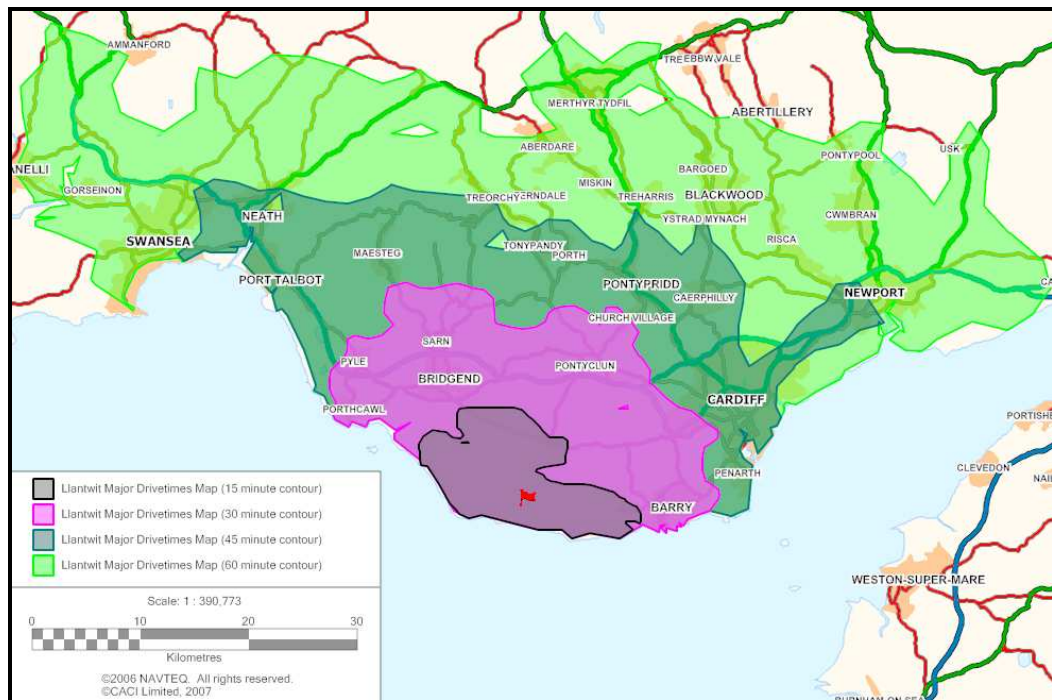
**Fig. 34.2: Drive times around Cowbridge**



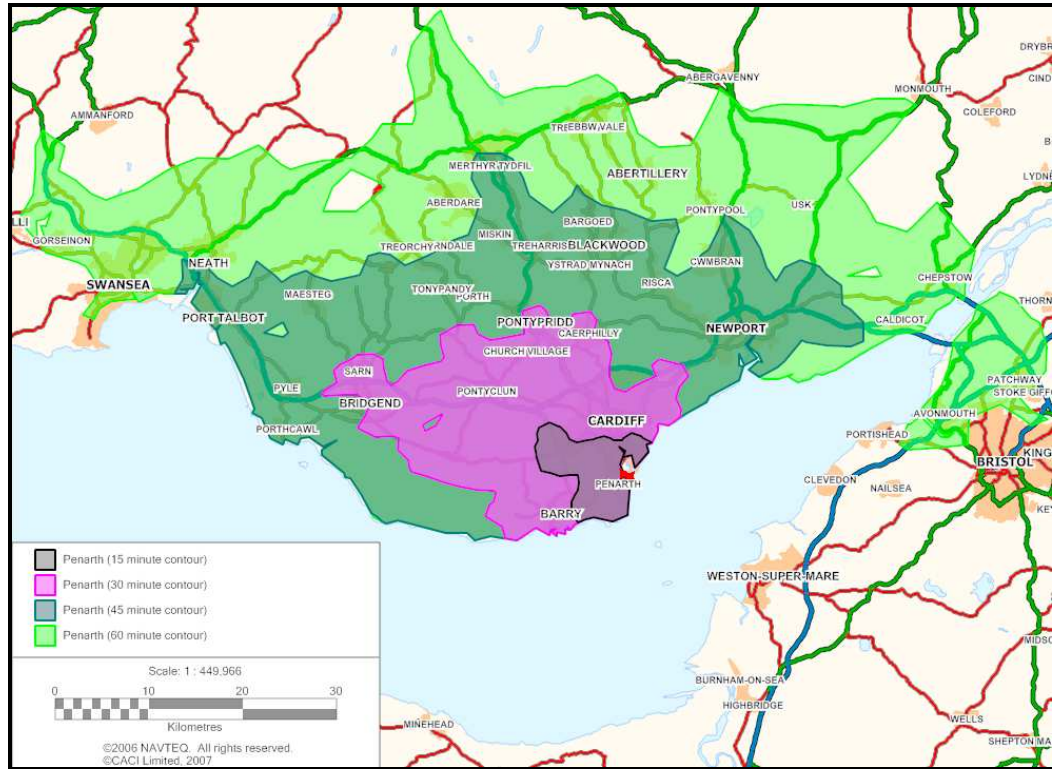
**Fig. 34.3: Drive times around Dinas Powys**



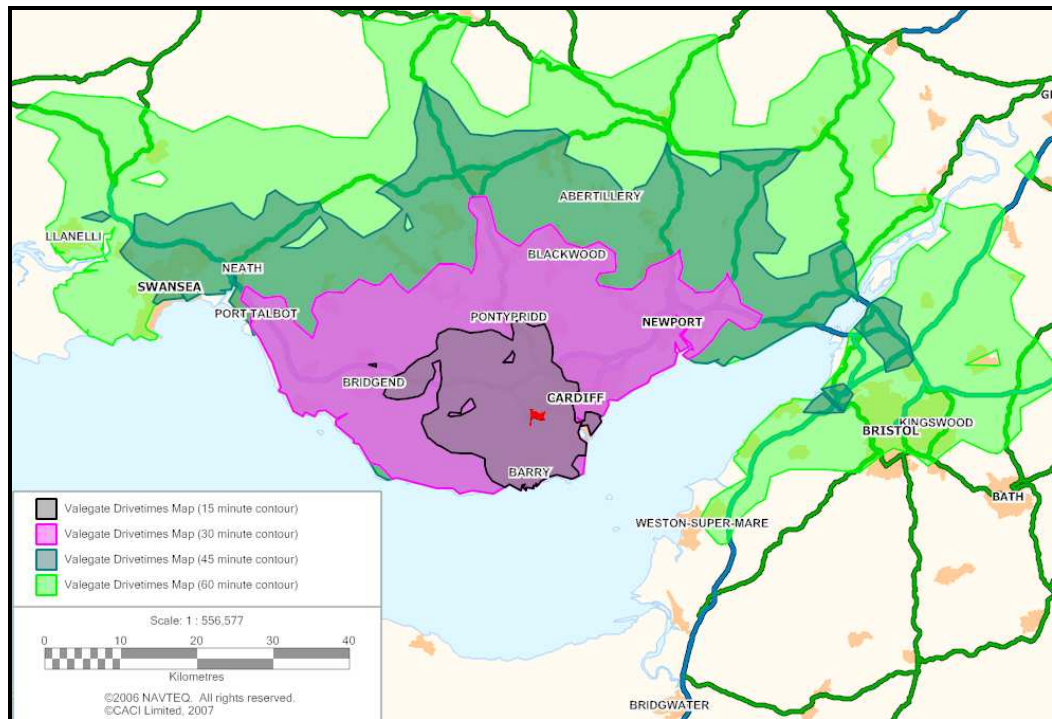
**Fig. 34.4: Drive times around Llantwit Major**



**Fig. 34.5: Drive times around Penarth**



**Fig. 34.6: Drive times around Valegate**



## 5.0 Conclusions

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- 5.1 Given the geographic proximity, there is significant leakage to Cardiff.
- 5.2 Within the UDP period 1996-2011, in the remaining time, CACI do not foresee significant changes in retail patterns of shoppers.
- 5.3 Within the existing town centres there is extremely low representation in the area of retail categories such as Drapery/Soft Furnishings, DIY High Street Stores China/Glass/Giftware. There is also significant under representation of Ladieswear and to a lesser extent Menswear.
- 5.4 To minimize any further leakage, CACI advises that the identified need to strengthen the retail within the Vale would be best focused in the larger Barry and Penarth Town Centres.
- 5.5 There is a clear opportunity for an additional supermarket for Barry Town Centre, where there is headroom for up to 3,928 sqm net of convenience floorspace and 2,859 sq m net of comparison goods floorspace.
- 5.6 If the council were to receive an application for new floorspace in Barry Town Centre, we would recommend that the level of sustainable floorspace be re-assessed based upon the extent to which the specific proposal could be argued to claw-back spend from other areas, and how this will impact on the capacity for floorspace (and corresponding headroom) at other locations.
- 5.7 Based upon existing trading patterns, there is headroom for new convenience floorspace in Penarth of 1,918 sqm net and 784 sqm net of new comparison goods floorspace.
- 5.8 If the council were to receive an application for new floorspace in Penarth Town Centre, we would recommend that the level of sustainable floorspace be re-assessed based upon the extent to which the specific proposal could be argued to claw-back spend from other areas, and how this will impact on the capacity for floorspace (and corresponding headroom) at other locations.
- 5.9 In particular, whilst significant comparison goods headroom is currently identified in Llantwit Major and Cowbridge, we would recommend that these are re-assessed in the light of any applications coming forward for Barry and Penarth.
- 5.10 We would recommend that Town Centre Strategies are developed to include public/private partnership work.
- 5.11 A clear "retail vision" should be identified for Barry and the district centres, which would include further investigation into the level of market appetite to take the headroom for new floorspace identified, the type of operators which would be most suitable, and the best locations for these operators.
- 5.12 An assessment of the future demographic profile of Vale of Glamorgan should be considered regarding the impact of progress, such as:
  - o Any projected economic growth;
  - o The impact of any new residential or mixed use developments in and around the Vale of Glamorgan.