



First Public
Survey
Neighbourhood Plan
Early Spring 2015



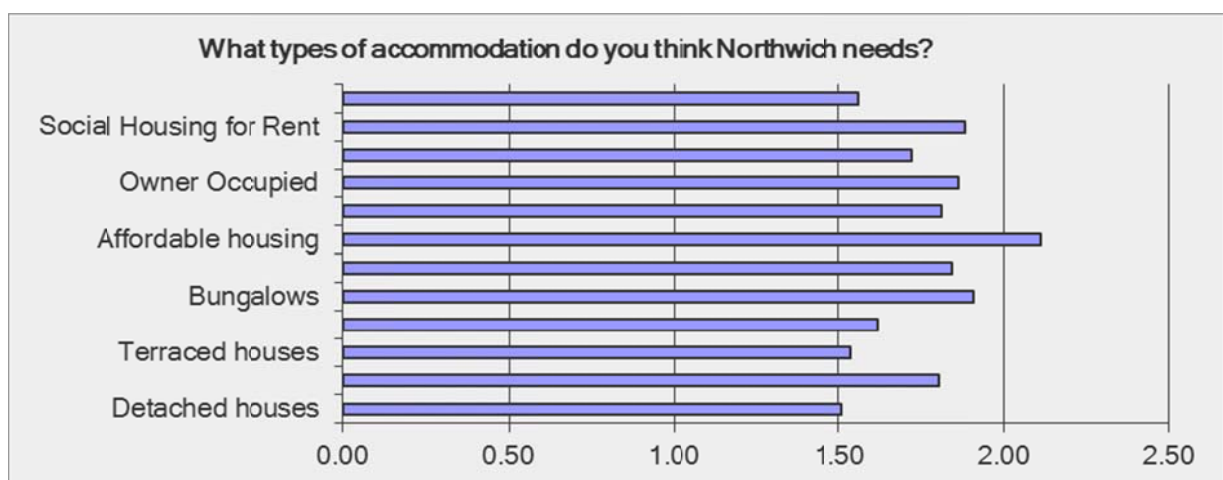
Residents and Community Survey.

What did they say?

Housing:

What types of accommodation do you think Northwich needs?

With the highest rating average of 2.11 the respondents feel that there is a need for more affordable housing in Northwich. The respondents also felt that there is a lack of bungalows and social housing within Northwich. The graph below shows the rating average of each type of housing with the highest rating average being the one that the respondents believe there is further need for.



Who would you prioritise providing new homes for?

The majority of respondents (302 out of 588) felt that the first priority for any new housing should be families with children. The second priority, with 159 respondents stating this, was elderly people.

What would be the best approach to new housing development in Northwich?

A clear majority (567 out of a total of 648 respondents) feel that the best approach for future housing developments was to use brownfield sites in and around Northwich. Although there were only 89 respondents who selected 'other' a lot of those who did suggested redeveloping the empty units in town as housing. The fewest amount of responses (50 each) suggested both Greenfield sites and large new housing estates.

Are there any sites in Northwich that you think would be appropriate for housing development?

From this question there were a lot of suggested sites for future housing developments, however a significant amount of the respondents suggested abandoned factory sites such as ICI and TATA. As well as these housing development in Weaver Square has been suggested in order to make use of it, and as one respondent stated, bringing housing into

Northwich Town Centre would make it feel safer at night.

Are there any areas in Northwich you would like to see protected from new housing development?

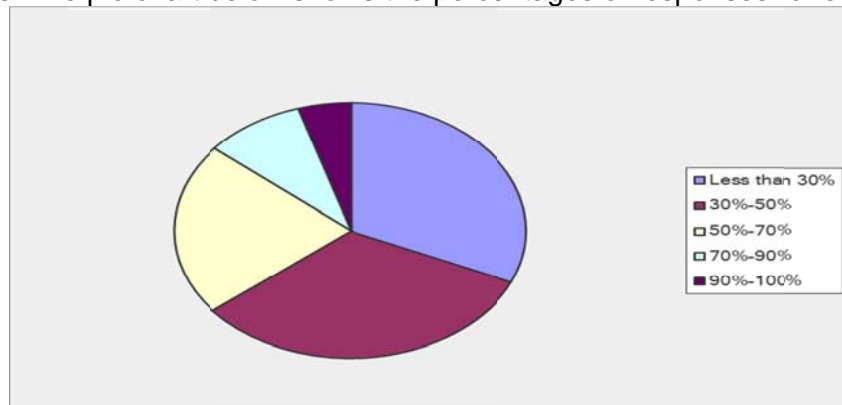
The majority of respondents believe that green field sites, open spaces and parks should be protected from future housing development. Some of the specified areas include Marbury Park, Verdin Park and Moss Farm.

Do you think that it is important that the design and materials used for new housing complements that of existing neighbouring properties?

A significant majority (554 out of a total of 631 respondents) believing that the design and materials used for new housing should complement that of existing neighbouring properties compared to just 12.2% who feel that it is not an important factor.

What proportion of new housing developments should be made up of “affordable homes”? (i.e. homes that are provided to rent or buy at below market prices, e.g. social rented, low cost or shared ownership for households whose needs are not met by the market.)

A majority (402 out of 626 respondents) feel that no more than 50% of new housing developments should be made up of affordable homes with 31.6% believing that it should be 0%-30% and 32.6% of the respondents stating between 30%-50% of new housing developments. The pie chart below shows the percentages of responses for each option.



Recreation, Tourism and Waterways:

When did you last visit the following attractions in Northwich?

From the responses given Marbury Park is the most popular attraction in Northwich with 227 respondents having visited within the last month that they completed the survey and 250 within the last year. The least popular of the attractions listed was the Lion Salt works, closely followed by Church Walk Paddling pool with over half of the respondents having never visited either attraction.

Do you think the above attractions are fulfilling their full potential?

Out of a total of 612 respondents 45.9% felt that the attractions were not fulfilling their potential while the remaining 54.1% felt that they were.

Which of the following options would enhance these attractions?

The two options that people felt would enhance the attractions listed were providing better facilities for visitors, with 395 respondents out of 616 feeling that this would have a significant impact and increasing awareness of the attractions where 303 out of 586 respondents felt this option would significantly impact the attractions. Supporting this result a lot of the comments given mentioned providing toilet facilities and cafes at some of the attractions would make them more appealing. Further to this, increasing awareness would also appear to benefit both the attractions and the people of Northwich as a few of the comments mentioned never having heard of some of the attractions including Carey Park or Vickersway Park despite having lived in Northwich for a number of years.

Would you, or a member of your family, use an adventure course if it was developed in Carey Park, Marbury Park or Verdin Park?

The majority of the respondents, 62.2%, stated that they, or a family member, would use an adventure course if it were provided for them.

Do you think the River Weaver, River Dane and the Trent and Mersey Canal are used to their full potential?

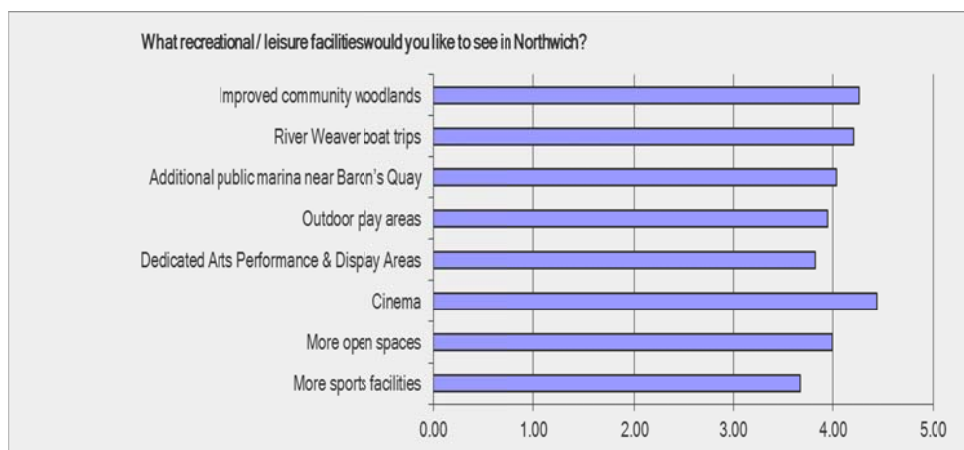
A significant majority of respondents (536 out of 616 respondents) feel like the waterways in Northwich are not used to their full potential.

What could be done to improve these assets as recreational and visitor attractions?

There were a wide variety of suggestions in order to improve the parks, with many of the respondents suggesting benches and picnic areas as well as cafes and toilets. With regards to the waterways, people feel that they would benefit significantly from boat hire, riverside cafes, and generally making more of a feature of them. Another common suggestion for the attractions in general was to hold more events, with some suggesting a folk and boat festival such as in Middlewich, in order to attract people to them and to Northwich.

What recreational/leisure facilities would you like to see in Northwich?

Out of the suggested facilities bringing a cinema into Northwich produced the highest rating average at 4.44, with 558 out of 632 respondents either in favour or strongly in favour of it. Other facilities which rated highly with respondents were improved community woodlands and River Weaver boat trips. Some of the further suggestions respondents provided were a bowling alley, bars and restaurants as well as mirroring the previous question with requests for water activities such as boat hire and boat trips. The graph below shows the rating average of the suggested facilities, with the highest rating average being the option that the respondents are most in favour of.



For new commercial development, do you think that there should be clear architectural design guidelines to reflect the unique heritage and character of Northwich?

The clear majority of respondents (88.1% from 638 respondents) stated that there should be guidelines in place for new commercial development within Northwich.

Retail and Commercial

Do you visit the Northwich Artisan Market?

As only 12.6% of people out of 650 respondents stating that they do not visit the Northwich Artisan Market, it is clear that the Artisan Market is an asset to Northwich and is encouraging people back into Northwich Town Centre when. As well as this the difference between those who visit the Artisan regularly compared to those who only visit occasionally is almost on par with 41.2% and 46.2% respectively.

Do you use Northwich Market?

The majority of respondents stated that they use the market occasionally with 376 out of 644 saying this. Compared with the Artisan Market, Northwich Market has fewer people using it regularly at 21.3% and more that say they never use Northwich Market at 20.3%.

Would you be in favour of a new permanent site for the Northwich market? If so, where?

The respondents were evenly split for this question with 50.8% in favour of a new permanent site for the market and 49.2% against moving the market. Those in favour have suggested multiple areas for the markets such as within the Barons Quay development and Weaver Square, but the majority feel that it should be in close to all the shops and facilities in the town centre in order to provide the custom for the stall holders. Those who believe the market should stay where it is have acknowledged that the current site, both the indoor and outdoor market, needs updating to make it more appealing to passing trade.

If yes, which of the following would you want?

A vast majority of the respondents (259 out of 433) would like to see both an indoor market and a traditional outdoor covered market.

Where would you like to see new retail/commercial development in Northwich?

The majority of respondents feel that any new retail development should be in the town centre, specifically Weaver Square as most of the retail units here are empty. Other suggestions also include Barons Quay and the top end of town by the library.

Transport and Infrastructure

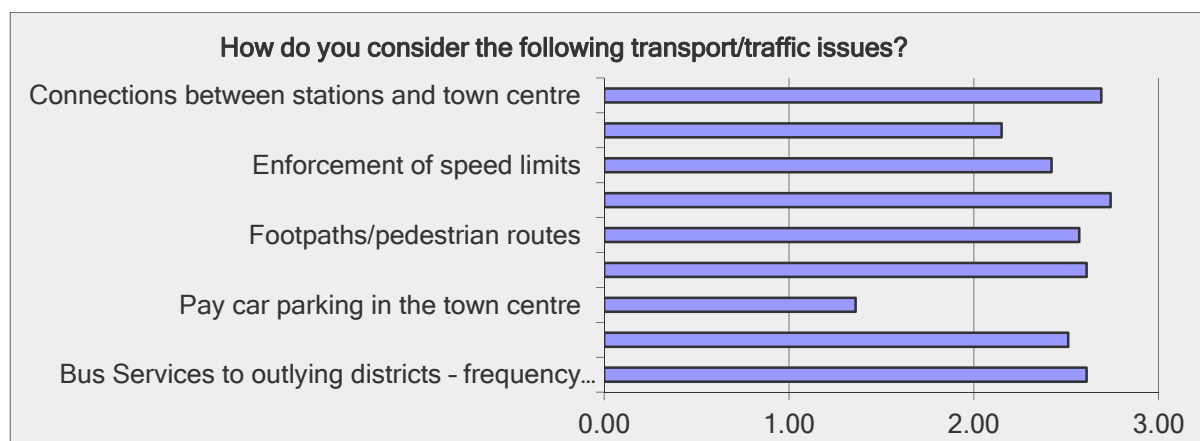
Are there any streets in Northwich that you feel could be improved?

As it is highly likely that the results for this question are influenced by where the respondents live there was a lot of suggestions of streets that could be improved in Northwich. Despite this, Castle, Leftwich and London Road were highlighted by multiple people as needing improvement/traffic management. As well as these three areas a significant amount of respondents object to the gyratory system that has recently been installed in Northwich

Town Centre.

How do you consider the following transport/traffic issues?

From the results, it is clear that the respondents feel that there is a need for more road maintenance to take place in Northwich as well as further connections between the stations and the town centre. With 363 of the respondents stating that there should be less of, pay car parking is something that a significant majority of the respondents are strongly against in Northwich. The graph below shows the rating average each of the issues received, the highest rating averages signalling the issues that the respondents feel more are required of.



A number of long-term strategic improvements have been suggested to the transport infrastructure of Northwich and the surrounding area. Of the following, which are you in favour of, and how would you rate its potential impact?

Many of the respondents (386 respondents) are in favour of installing a new two-way bridge at Winnington and feel that it would have a significant impact on Northwich. The rest of the strategic improvements shown were also supported by many of the respondents, however, with only 280 respondents in favour of creating a new interchange between Hartford and Weaverham on the junction of the Liverpool-London and Chester-Manchester railway lines, this came in as the least favoured option.

Would you cycle to work if safe and convenient cycle paths were provided?

Out of the 547 responses gained from this question 282 (51.6%) respondents said that they would cycle to work, with 265 (48.4%) stating they would not.

What type of businesses should the Neighbourhood Plan encourage?

The main type of business that the respondents think should be encouraged in Northwich is Retail with 381 out of 575, and with 379 out of 575 respondents Pubs, Restaurants and Cafés came in closely behind.

Employment

What one thing would make Northwich more attractive to business start-ups or expansions?

The main theme that comes through on this question is that the respondents feel that cheaper rents and business rates would be beneficial to business owners as well as the

town. Also repeatedly suggested is improving the transport links, including road, bus and rail services.

Where would you like to see new employment opportunities created in Northwich?

From the results generated it is clear that the respondents' first preference for creating new employment opportunities is through the renovation of existing buildings and vacant units in the town centre with a rating average of 1.3. With a rating average of 1.9, putting it as the second preference was new town centre developments. Finally out of town/business parks was rated as the third preference with 444 out of 623 respondents placing it as their third choice.

Health and Well Being

If land became available for allotments, would you use it?

Just over two thirds of the respondents (67.9% of 614) stated that they would not use allotment space should it become available. However, with almost a third stating that they would this suggests that there is still need and want for allotments in and around Northwich.

How do you rate open spaces and play areas around Northwich?

The open spaces and play around Northwich were rated as important by 80.1% of 627 respondents with only 9 respondents believing that they are not important.

To what extent do you believe open and green spaces should be protected from development?

The majority of the respondents (67.5% out of 621) are strongly in favour of protection, with a further 21.1% in favour.

Do you think services at the Victoria Infirmary in Northwich should be reduced, maintained at the current level or enhanced?

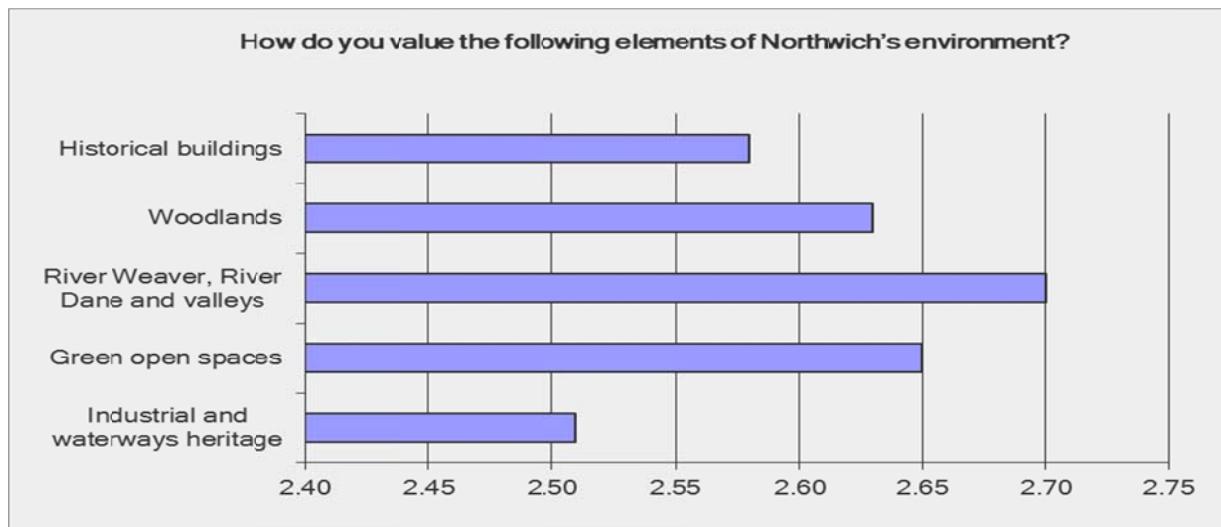
A significant majority (510 out of 629 respondents) believe that the services at Victoria Infirmary should be enhanced. Further to this with those that left comments for this question there were a lot that feel that the parking at the Infirmary should be free as well as introducing a 24 hour accident and emergency service. Other comments include suggestions of re-opening the wards and increasing services to provide x-ray at all times, maternity services as well as others which will benefit the growing population of Northwich as well as the Leighton, Warrington and Chester Hospitals.

Natural and Built Environment

How do you value the following elements of Northwich's environment?

With the highest rating average of 2.7, the element that the respondents felt was the most important of Northwich's environment is the River Weaver, River Dane and valleys. This was followed by the green open spaces and woodland. The element rated as the least important was the industrial and waterways heritage with a rating average of 2.51 despite its link in with the River Weaver, River Dane and valleys. Due to these results it is clear that the people of Northwich enjoy having outdoor activities and value them highly. The graph below

shows each of the elements and the rating average they received, the highest rating average showing the most highly valued element.



To what extent do you believe the local landscape should be protected and enhanced?

With 67.5% of the responses the majority of people are strongly in favour of protecting the local landscape with a further 25.7% in favour of its protection.

The Neighbourhood Plan could seek to impose particular conditions on development. Of the following which (if any) are you in favour of?

Although all of the suggested development conditions received a significant amount of respondents in favour of each of them, with the highest rating average of 2.78 and 492 respondents in favour, preserving the local character through design guidelines for new developments stands out as the condition which people strongly feel should be imposed on new developments.

Should Northwich's conservation area be protected?

A significant majority of respondents (535 out of 615) feel that the conservation area should be protected.

Are there any areas or buildings in Northwich you would like to see protected or enhanced?

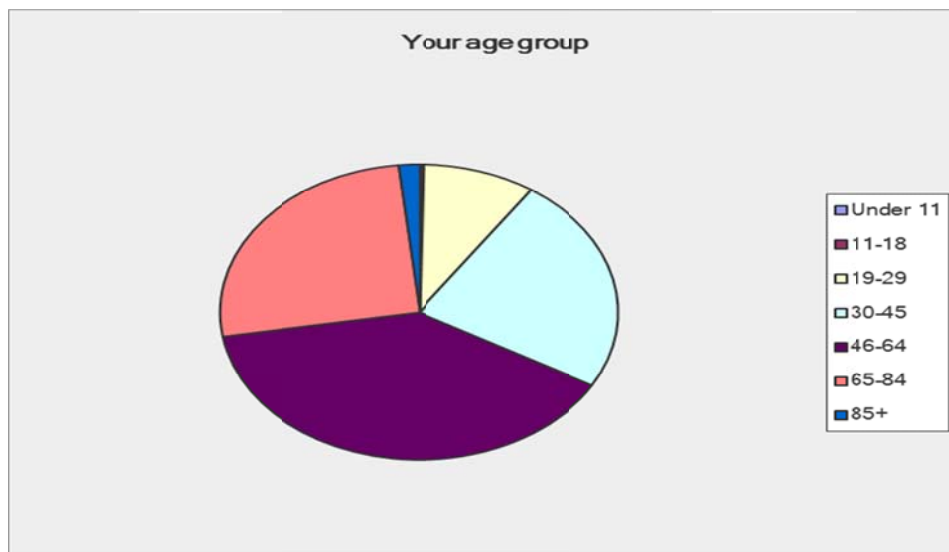
A vast majority of the respondents feel that the black and white buildings in town, including the Library, etc, should be protected and enhanced as many feel like they are just being left to rot, the derelict ones at the bottom of Winnington Hill cause a debate between those respondents who feel the buildings should be improved and those who feel that they should be demolished. As well as these many of the parks and open spaces are mentioned as needed to be protected. However, many respondents feel that the 1960's style buildings such as the police station and the old registry office are an eyesore and should be demolished.

The demographic spread of responding residents

Age Group?

Overall, a wide variety of ages are represented through the respondents. The majority of

respondents, at 246 respondents were between 46-64 years old. The pie chart below shows the distribution of age ranges of the respondents.



Gender?

With 309 male respondents and 320 female respondents there is a fairly even split and therefore the results are more reliable as representative of the whole of the population of Northwich.

Business Survey

Business surveys were created and distributed to small business owners within Northwich in order to gauge views on the Retail and Commercial TAG from those who work within it. Out of the 150 that were distributed 21 responses were collected to collate and analyse.

What did they say?

How would you classify your business?

With 35%, the majority of the businesses who completed the survey stated that they belonged to the 'Retail – mostly comparison goods' category. None of those who responded were classified as farming, pub, restaurant or café, knowledge based or financial and professional services. Due to this the responses for the other questions could be swayed to the retail sector.

How far away from your business do you live?

Out of the 20 responses given for this question a clear majority 45% lived between 1 – 5 miles from the business premises, whereas only 1 respondent (5%) lived more than 25 miles away.

What is your usual means of transport to work?

A clear majority (18 out of a total 21 respondents) stated that their usual means of transport to work was by car/van with the remaining 3 respondents all walking to work.

Would you cycle to work if given safe and consistent cycle paths?

The responses to this question differ drastically from the same question asked in the Residents and Community survey. With only 21.1% of those stating that they would cycle to work compared with 51.6% in the Residents and Community Survey.

What type of premises does your business operate in?

This question showed that the premises mainly used for businesses within Northwich are leased/owned by the business with equal amounts (45%) of respondents selecting each of these options. The final 10% (2 respondents) stated that their premises was mixed hereditament.

To what extent are the following important reasons for the location of your business in Northwich?

Out of the 15 responses to this question the reason that came out as the most important factor in the location of a business, with a rating average of 3.43, is the affordability, closely followed by the location of the customer base and being central to it (rating average 3.33). The least important factor was Government incentives to locate to the area with a rating average of 1.79.

What would help your business develop and thrive during the Northwich Neighbourhood Plan period to 2030?

The general feeling coming through the responses for this question is the need for adequate free parking within the town along with a good traffic flow, which, the business owners who responded believe, would increase footfall throughout the town and benefit all businesses in town.

Should the Neighbourhood Plan allocate more land for employment purposes?

Despite the responses to this question being minimal (only 13 responses) a clear majority at 69.2% felt that more land should be allocated for employment purposes

What one thing would make Northwich more attractive to business start-ups and expansions?

A lot of the comments within this question reflected those in the Residents and Community Survey stating that lower rents and business rates would encourage more businesses into Northwich. Another common answer among those who responded was better infrastructure, including the roads, transport links and more entertainment facilities e.g. cinema, restaurants in order to increase the footfall in Northwich and make any new business venture worthwhile. These suggestions mirror those received in the Residents and Community Survey.

Do you have any additional comments about business activity/employment in Northwich?

The suggestions given for this question were vastly varied, however a couple of the responses included actively encouraging major retail names into Northwich Town Centre as opposed to on retail parks, as they felt this would then bring the customers back into Northwich. Another response that was mentioned by a few of the respondents was the road infrastructure and how difficult it can be at times getting into Northwich due to numerous road closures/works at the same time.

Mid Cheshire College Survey

David Roberts and Brian Jamieson (chair and vice chair of the NNP) went into Mid Cheshire College, Hartford in April 2013 in order to discuss ways that the college could support the NNP. It was decided that Mid Cheshire College would assist in the promotion of the NNP and that photography through student projects would be an appropriate method

A total of 55 students responded to the survey both via survey monkey and by returning the paper copies (a detailed copy of the results is shown in appendix **A?**). Of the 55 students that replied there was an even split between the amount of males and females who responded with 27 males and 28 females participating in the survey.

As well as the surveys the NNP Executive group went into the college on 11th of February 2015 to deliver a short presentation. This focus group was attended by over 30 students and chaired by Gina Bebbington (Chief reporter on the Northwich Guardian) in order to raise awareness and inspire more of the students to complete the surveys.

What did they say?

What one thing about Northwich do you most like?

This was given as an open ended question giving the students chance to write whichever aspect of Northwich they liked the most, answers ranged from Mid Cheshire College to the open spaces and Artisan Market, however, most of the comments referred to specific shops such as Game and the eateries in Northwich e.g. McDonalds, Subway and Costa.

What one thing about Northwich do you most dislike?

As with the previous question there was a wide range of responses but there was a strong feeling of there not being enough for the youth of Northwich to do as well as not enough shops for them. A couple of comments also felt that there was a lack of police in the area with one stating that they do not feel that safe due to this.

If you had the power, how would you improve Northwich?

Generally:

As was mentioned within the Residents and Community Survey, the lack of shops within Northwich needs addressing and preferably attracting more/better shops to the town centre.

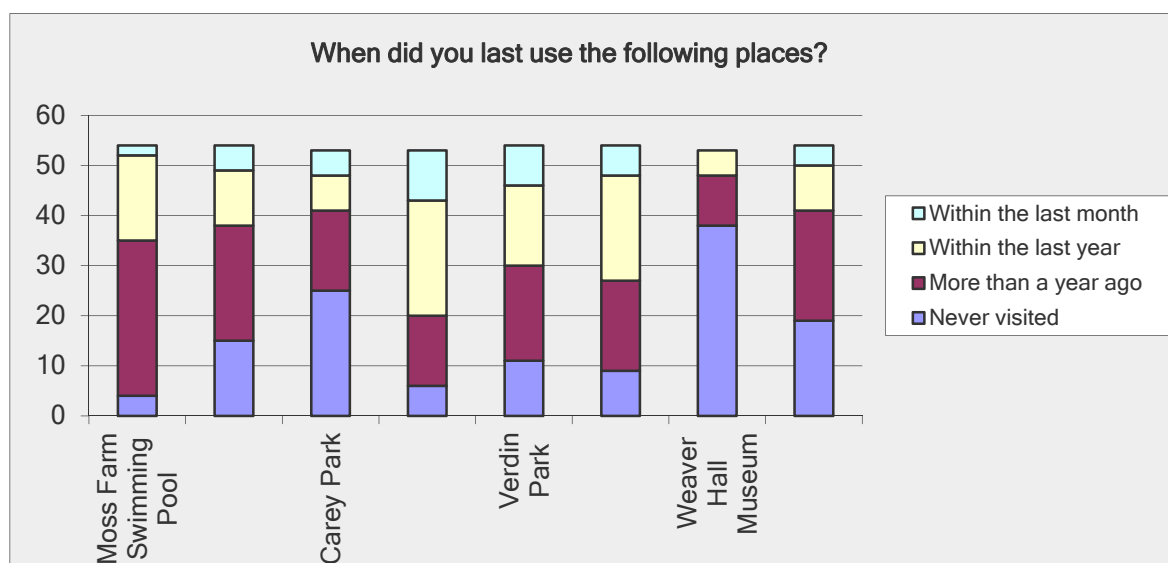
For your age group specifically:

Those who responded to this question suggested multiple things, but the view is that in order

to improve Northwich for their age group there should be affordable entertainment facilities such as a cinema and bowling alley. Further to this many of the suggestions included attracting better/more shops into the town centre.

When did you last use the following places?

The most popular of the places given was Marbury Park with 10 out of 54 respondents having visited in the last month alone. Weaver Hall Museum was the least visited attraction with 38 respondents out of 54 having never visited. The graph below shows a breakdown for each of the answers given for each of the attractions.



How do you normally get to and from college?

A significant majority of the respondents, with 46.3%, stated that they normally use a car to get to and from college, with using the bus and walking being the second and third most popular means of travel.

How important do you think are the following?

With the highest rating average of 2.57 having convenient public transport links into and around Northwich were viewed as the most important of the options available. The town's waterways (e.g. access, leisure use, etc.) were shown to be viewed as the least important with a rating average of 2.11, but despite this out of the 54 students who completed this question 45 of those believe that the waterways are important/very important as opposed to just 9 who believe that they are not important at all.

Northwich is surrounded by water – the River Weaver, the River Dane, the Trent and Mersey Canal, and numerous small lakes and meres. Would you like to see a landscaped riverside and a new marina downstream from Town Bridge, in the area of the Baron's Quay development?

A clear majority (39 out of 51 respondents or 76.5%) would like to see the riverside improved and landscaped. This reflects those answers given in the Residents and Community Survey where it was suggested often to improve the walkways and towpaths as well as adding cafes, picnic areas, etc. The result from Mid Cheshire College implies that the students also feel like the waterways we have are under appreciated.

Sir John Deane's College

On the 11th February 2015 a focus group attended by over 20 students and chaired by Gina Bebbington was conducted at Sir John Deane's College. Members of the NNP Executive Group and council office staff were present to respond to student questions regarding the Neighbourhood Plan. As well as hoping to generate a good response from the students through the surveys, despite this response rate for the college was low with only 9 surveys being completed. However, as the same questions were used for the Mid Cheshire College surveys, the answers given will support those received from Mid Cheshire.

What did they say?

What one thing about Northwich do you most like?

The most common answer for this question was the transport links with three of the respondents stating this. The Northwich Artisan Market was also high on the list of positive aspects of Northwich. This supports the results gained from the Mid Cheshire College survey where respondents also appreciated the Artisan Market.

What one thing about Northwich do you most dislike?

The respondents, like those from the Mid Cheshire College Survey, disliked the amount of empty shops that there are in Northwich Town Centre. There is a strong feeling of wanting bigger named shops in Northwich which are targeted at the younger customers.

If you had the power, how would you improve Northwich?

Generally:

The majority of responses stated that Northwich should be cleaner. They also felt that the empty shops should be filled, preferably with bigger brands, of a better variety. This thought is mirrored from the Residents and Community Survey as well as Mid Cheshire College survey.

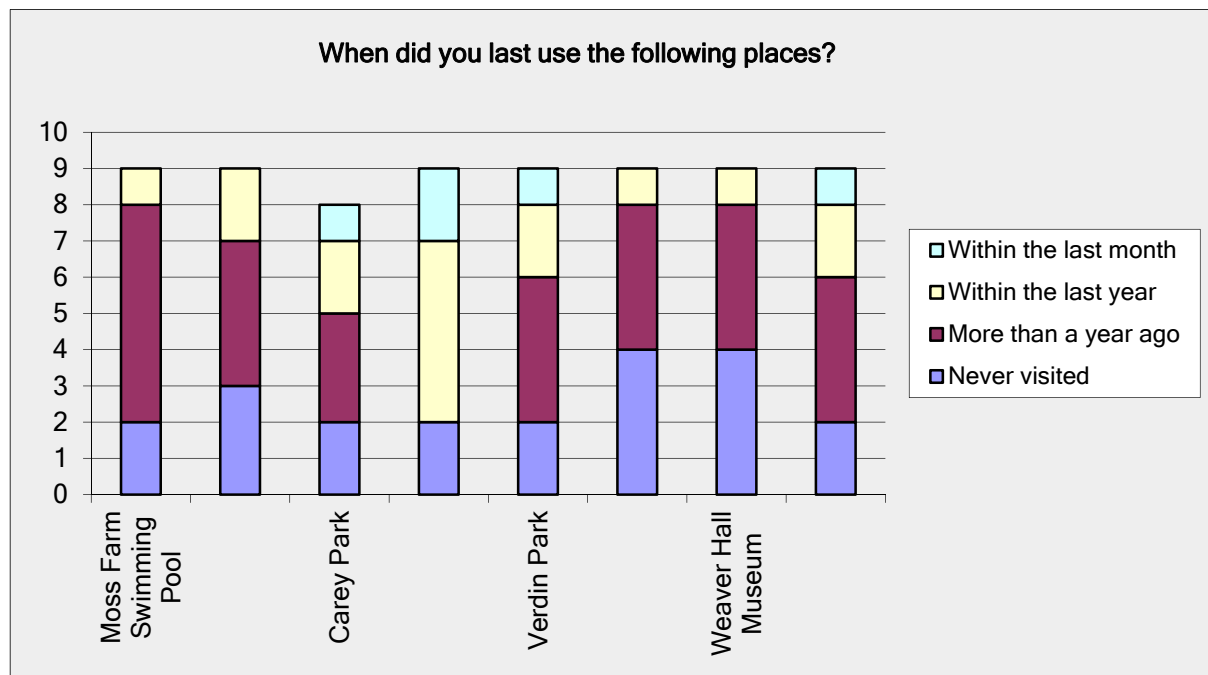
For your age group specifically:

The responses to this question mirror those received from Mid Cheshire College with students requesting a cinema, restaurants and better shops aimed at their generation. Many of the students have stated that bring in bigger named brands would encourage them to use the town centre more.

When did you last use the following places?

As is shown in the graph below, Marbury Park is the most popular attraction with 2 of the respondents visiting it in the last month and 7 in the last year. The least popular attractions are Vickersway Park and Weaver Hall Museum. Looking at the results from Sir John Deane's College and Mid Cheshire College together, Weaver Hall Museum is failing to

attract the younger generation.

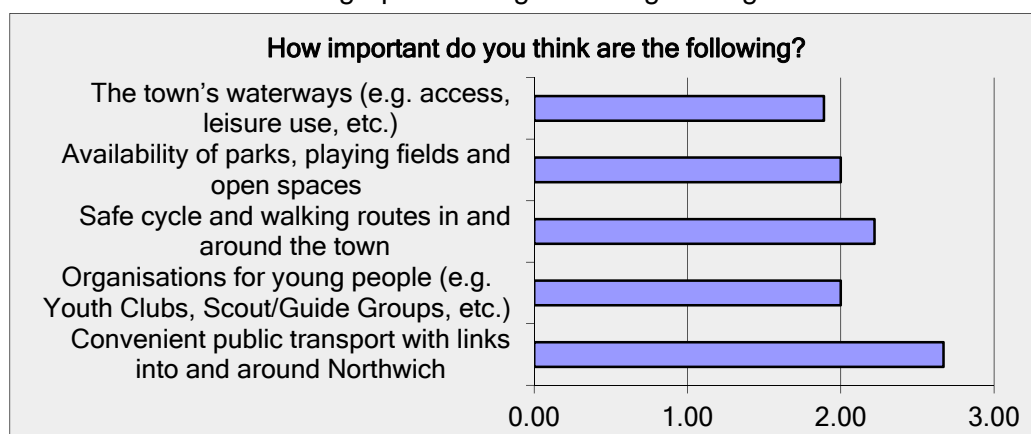


How do you normally get to and from college?

With 50% of respondents stating this, the main method of transport to and from college was via car. Again mirroring Mid Cheshire College Results, as well as the Business survey where the majority of both groups used a car as their main transport.

How important do you think are the following?

With the highest rating average of 2.67, students rated having convenient public transport links into and around Northwich as the most important of the options given. With the lowest rating average, at 1.89, the towns' waterways are viewed as the least important for Sir John Deane's students. Below is a graph showing the rating average for each element.



Northwich is surrounded by water – the River Weaver, the River Dane, the Trent and Mersey Canal, and numerous small lakes and meres. Would you like to see a landscaped riverside and a new marina downstream from Town Bridge, in the area of the Baron's Quay development?

The majority of respondents (89.9%) would like to see the riverside improved and landscaped. This again reflects the responses given in both the Mid Cheshire College survey

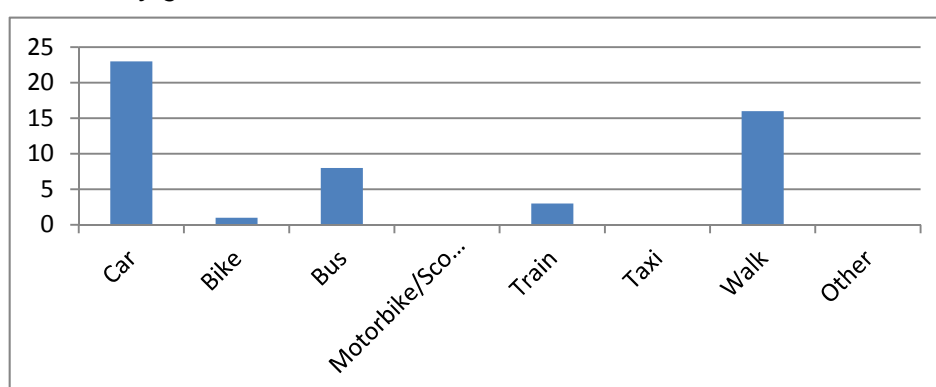
and the Residents and Community survey as all groups believe that the waterways should be enhanced.

High School Survey

The school survey was sent out to 2 high schools serving Northwich. They were sent information about the Neighbourhood Plan and were requested to gather equal numbers of male and female students to complete the survey. 47 surveys were completed to have the responses collated and analysed in order to shape the NNP.

What did they say?

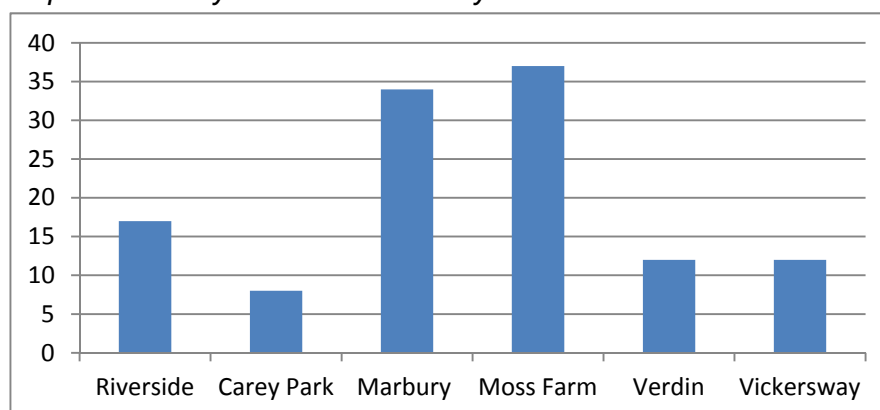
How do you normally get to and from school?



What would need to be done to encourage you to cycle/walk more?

In order to increase the amount of those who walk/cycle the respondents feel that there need to be more cycle paths as well as making the roads safer.

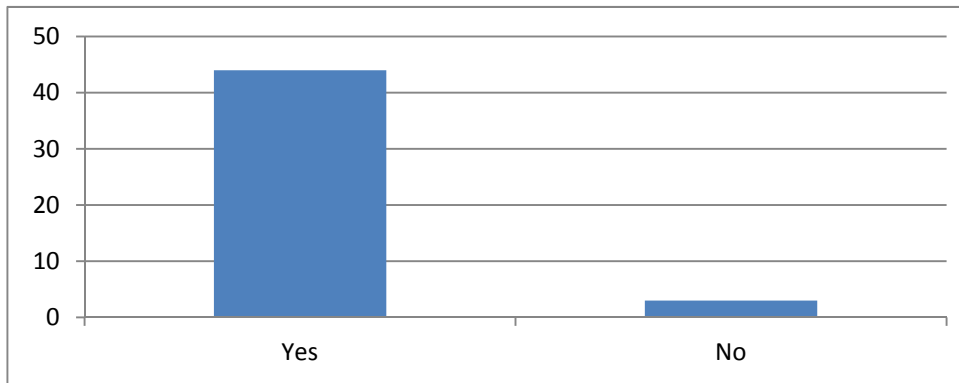
Which of these places have you used in the last year?



Being the second most popular attraction for high school students, the popularity of Marbury Park shown in this graph is reflected from the Residents and Community Survey as well as the College survey.

Do you use your local shops? Do you use the Town Centre Shops?

With the results being the same for both of the questions, the majority of respondents (as shown in the graph below) use both their local shops as well as those in the town centre.



If you wanted to tell a visitor how to recognise Northwich what building, landmark or landscape would you tell them about?

Many of the respondents listed Anderton Boat Lift, the Canal and Waitrose within this question.

What one thing about Northwich do you like the most?

Although there were a wide variety of responses for this question including the sweet shop and the green spaces, Moss Farm and McDonalds were the most common answers.

What one thing about Northwich do you most dislike?

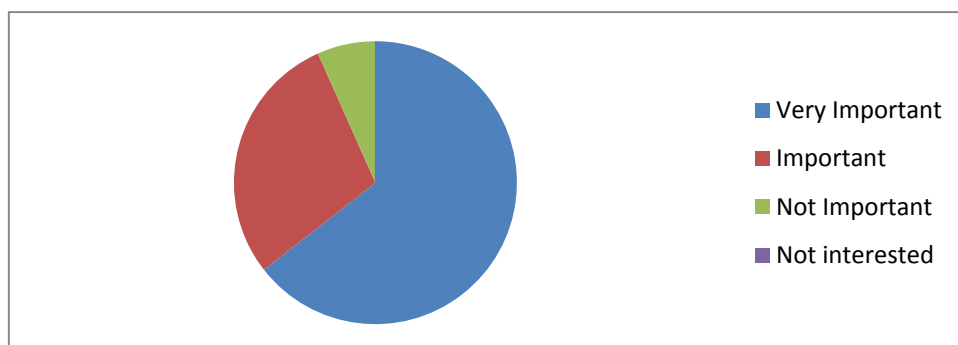
Despite the respondents being unable to drive many of them stated that the thing they least liked about Northwich is the traffic and the one way system. Another aspect which received a lot of comments is the aesthetics of some of the buildings, especially the police building and the empty shops in town.

What one change would most improve Northwich for people of your age?

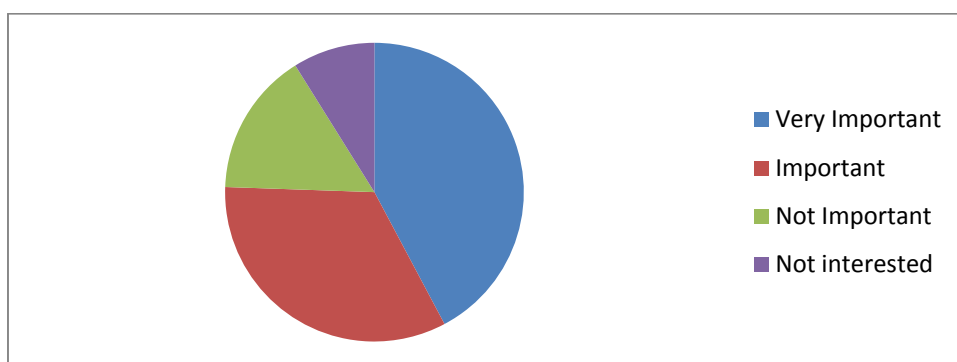
Bringing a cinema into Northwich is high on the list of what the respondents would like along with a better variety of well-known shops. Further to this many also stated that a paintball arena would be a welcome addition to Northwich.

How would you rate the following:

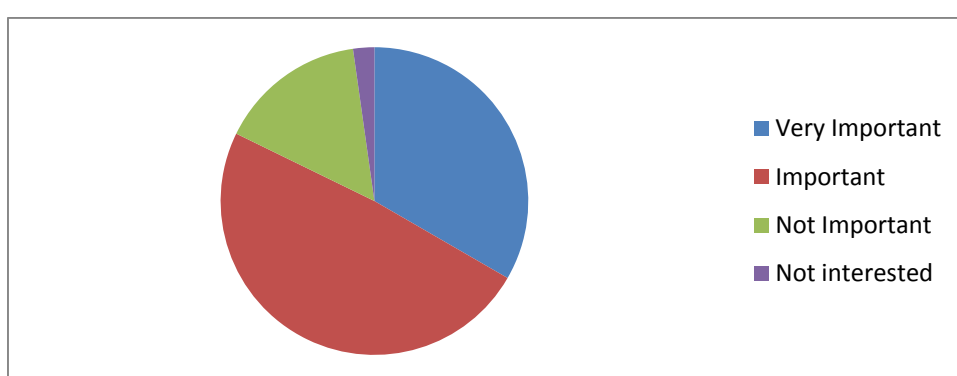
Public transport links to other towns and areas



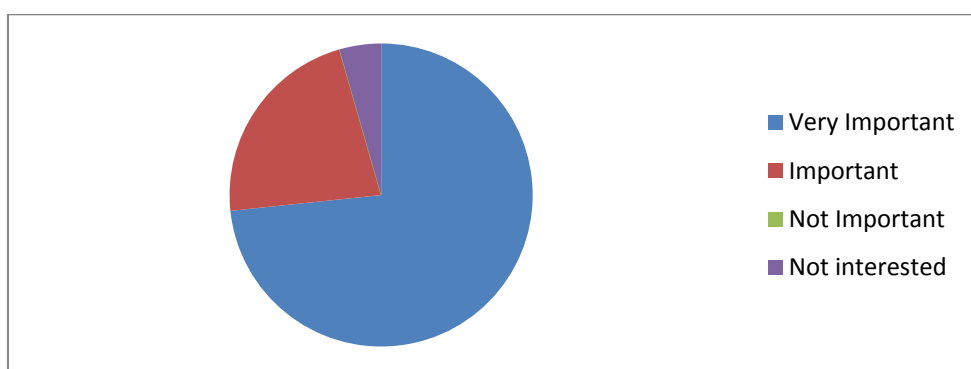
Organisations for young people



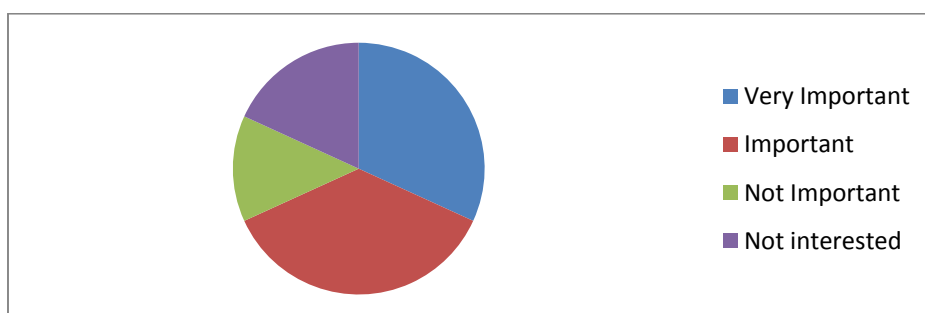
Bicycle/Walking routes in and around the town



Pleasant physical environment



The way we use our waterways



Further comments

The responses within this section mirror the answers given to '*What one change would most improve Northwich for people of your age?*' with the addition of some stating the more parks/green open spaces would be beneficial to all residents of Northwich.

Further information with all of the responses and answers given to each question is shown in *appendix*

Primary School Survey

The primary school survey was sent out to **NUMBER** of schools within the NTC boundary. Each of these was sent information about the NNP and requested to gather equal numbers of male and female students to complete the survey. 72 surveys were completed.

What did they say?

What do you like best about Northwich?

The three most common answers in received from this question were the parks, the shops and how friendly Northwich is. Other answers covered a range of things from the rivers to the Library.

Where is your favourite place in Northwich?

As with the previous question there were a wide variety of responses to this question, but the places that came out as in the top three were the shops, the town and the parks. Vickersway Park in particular was identified by those who responded as it came out as joint third with 'the parks' in general.

What would you change in our parks and play areas?

With a significant lead over any of the other comments, the respondents feel that the main change in the parks and play areas should be more equipment added for all age ranges. Although Townshend Road Park (Lostock Gralam) is not within the Northwich Town Council boundary that was used as a boundary for the NNP, improving this park on all counts was the second most suggested change to the parks and play areas of Northwich.

What would you like to see along the riverside?

Boats, cafes/restaurants and benches came out as the top three suggestions in order to make the riverside better with 14, 13 and 9 votes respectively; these comments also mirror those of the Residents and Community Survey where a lot of the responses also felt the same as the children.

What would you like to see in Northwich in 10 years' time?

As with all the other surveys, minus the business survey, the children who completed the surveys would like a cinema in Northwich, as well as a bowling alley, which has also been mentioned in other surveys. The theme coming through from all surveys is that people are looking for more activities within Northwich, whatever shape they may come in. Children in

this survey have also suggested things such as an arcade, graffiti walls, a theatre and an aquarium.

Any further comments/suggestions?

The most common response within this question has also been mentioned previously in the other surveys, this is the fact that those who completed the survey feel that Northwich needs more/better shops. Other opinions included that Northwich needs to be cleaner, have more activities for children within Northwich.

Further information with all of the responses and answers given to each question is shown in *appendix ...*