

# **Transport and Health- Issues and challenges Britain's Greenest City**

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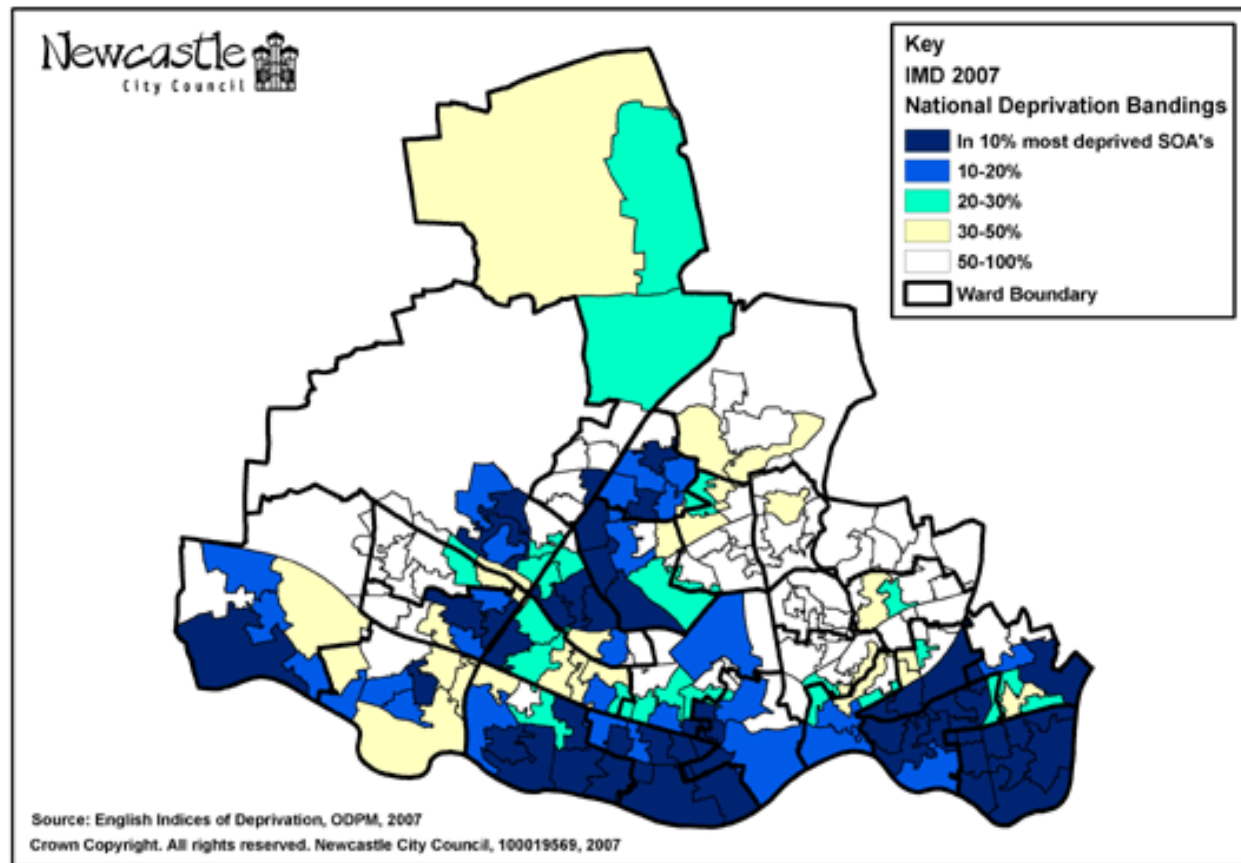
# Newcastle the city



# Newcastle the people

- ❖ **277,800 people**
- ❖ **22.8% under 19**
- ❖ **57.7% between 20 and 59**
- ❖ **19.5% over 60**
- ❖ **Largest age group 20-24 with 13.9%**
- ❖ **49% male**

# Newcastle the people



# Greenest city?

## Forum for the Future's Sustainable Cities Index tracks progress on sustainability in Britain's 20 largest cities

Bristol, Brighton, Plymouth, London, Sheffield, Edinburgh, Cardiff, Leeds, Nottingham, Liverpool, Coventry, Manchester, Derby, Leicester, Sunderland, Bradford, Glasgow, Birmingham and Hull.  
...and of course Newcastle

# Greenest city?

**13 indicators are measured across three broad areas:**

- ❖ **environmental performance**
- ❖ **quality of life**
- ❖ **future-proofing**

City	Employment	Transport	Education	Health	Green space	Total points
Bristol	19	19	16	14	9	77
Brighton	17	9	20	17.5	10	73.5
Plymouth	18	15	16	19	3	71
London	15	6	13	20	16	70
Sheffield	13.5	8	17	16	15	69.5
Edinburgh	20	1	19	12	14	66
<b>Newcastle</b>	<b>12</b>	<b>17</b>	<b>10</b>	<b>9</b>	<b>18</b>	<b>66</b>
Cardiff	16	5	18	13	11	63
Leeds	13.5	3	14	17.5	7	55
Nottingham	6	15	7	5	20	53
Liverpool	3.5	20	8	3	17	51.5
Coventry	9	14	11	11	5	50
Manchester	7.5	13	5	2	19	46.5
Derby	10.5	12	6	15	1	44.5
Leicester	5	18	1	6	13	43
Sunderland	7.5	7	9	7	8	38.5
Bradford	10.5	4	4	8	6	32.5
Glasgow	3.5	2	12	1	12	30.5
Birmingham	2	11	3	10	4	30
Hull	1	10	2	4	2	19

# Greenest city?

**Health –**

**Measured by life  
expectancy**

**9**

**Transport –**

**how long it takes to  
access key services  
without using a car**

**17**



# Greenest city?

- ❖ **Are these the best indicators to chose?**
- ❖ **What about obesity?**
- ❖ **Do we take age into account?**
  
- ❖ **Can/should we quantify the relationship between health and transport?**

# Health and transport

Health –  
Measured by life  
expectancy

Transport –  
how long it takes to  
access key services  
without using a car



City	Employment	Transport	Education	Health	Green space	Ratio
Bristol	19	19	16	14	9	0.74
Brighton	17	9	20	17.5	10	1.94
Plymouth	18	15	16	19	3	1.27
London	15	6	13	20	16	3.33
Sheffield	13.5	8	17	16	15	2.00
Edinburgh	20	1	19	12	14	12.00
<b>Newcastle</b>	12	17	10	9	18	<b>0.53</b>
Cardiff	16	5	18	13	11	2.60
Leeds	13.5	3	14	17.5	7	5.83
Nottingham	6	15	7	5	20	0.33
Liverpool	3.5	20	8	3	17	0.15
Coventry	9	14	11	11	5	0.79
Manchester	7.5	13	5	2	19	0.15
Derby	10.5	12	6	15	1	1.25
Leicester	5	18	1	6	13	0.33
Sunderland	7.5	7	9	7	8	1.00
Bradford	10.5	4	4	8	6	2.00
Glasgow	3.5	2	12	1	12	0.50
Birmingham	2	11	3	10	4	0.91
Hull	1	10	2	4	2	0.40

# Health and transport

Does this tell us anything useful?

# Health and transport

## Health

Age

Ethnicity

Circumstances

Gender

Education

Access to services

Poverty

## Transport

Age

Ethnicity

Circumstances

Gender

Education

Health

# How can we use these figures?

School	Walk				Cycle			
	2007	2008	2009	2010	2007	2008	2009	2010
Byker Primary School	87.1%	88.2%	92.7%	92.7%	0.4%	0.4%	0.0%	0.0%
St Alban's RC Primary School	56.9%	51.8%	49.3%	50.4%	0.0%	0.0%	4.4%	3.1%
St Anthony's CofE Primary School	85.7%	85.7%	75.5%	66.4%	1.8%	0.7%	4.9%	5.2%
St Lawrence's RC Primary School	60.0%	68.2%	72.2%	75.3%	0.0%	0.0%	0.0%	0.0%
St Vincent's RC Primary School	78.7%	72.6%	71.7%	68.8%	0.5%	0.5%	0.5%	2.0%
Tyneview Primary School	66.5%	78.3%	77.4%	75.8%	0.0%	0.0%	0.0%	0.5%
Walkergate Primary School	49.0%	58.3%	64.1%	71.0%	0.4%	0.4%	0.0%	0.0%
West Walker Primary School	64.9%	75.1%	78.5%	80.9%	0.5%	0.5%	0.5%	0.0%
Welbeck Primary School	77.7%	76.2%	80.9%	81.4%	0.0%	0.0%	0.0%	0.2%
Wharrier Street Primary School	84.3%	91.7%	96.5%	95.8%	0.0%	0.0%	0.0%	0.0%
<b>Newcastle average</b>	<b>51.7</b>	<b>52.3</b>	<b>51.5</b>	<b>51.4</b>	<b>0.8</b>	<b>1.0</b>	<b>1.5</b>	<b>1.3</b>

# Or these?

Establishment Name	0.0 - 0.25 Miles		0.25 - 0.5 Miles		0.5 - 0.75 Miles		0.75 - 1.0 Miles	
	Count	Percentage	Count	Percentage	Count	Percentage	Count	Percentage
Byker Primary School	2	50.0%	1	25.0%	1	25.0%	0	0.0%
St Alban's RC Primary School	7	9.7%	31	43.1%	15	20.8%	9	12.5%
St Anthony's CofE Primary School	6	46.2%	3	23.1%	3	23.1%	0	0.0%
St Lawrence's RC Primary School	6	16.7%	6	16.7%	10	27.8%	2	5.6%
St Vincent's RC Primary School	7	15.2%	14	30.4%	7	15.2%	10	21.7%
Tyneview Primary School	3	9.4%	9	28.1%	6	18.8%	5	15.6%
Walkergate Primary School	12	8.0%	50	33.3%	41	27.3%	27	18.0%
West Walker Primary School	1	3.8%	10	38.5%	4	15.4%	6	23.1%
Welbeck Primary School	20	33.3%	21	35.0%	12	20.0%	3	5.0%
Wharrier Street Primary School	5	62.5%	2	25.0%	0	0.0%	0	0.0%
Newcastle average	393	6.4%	1175	19.1%	1102	17.9%	945	15.4%

# Or these?

Establishment Name	0.0 - 0.25 Miles		0.25 - 0.5 Miles		0.5 - 0.75 Miles		0.75 - 1.0 Miles	
Byker Primary School	2	50.0%	1	25.0%	1	25.0%	0	0.0%
St Alban's RC Primary School	7	9.7%	31	43.1%	15	20.8%	9	12.5%
St Anthony's CofE Primary School	6	46.2%	3	23.1%	3	23.1%	0	0.0%
St Lawrence's RC Primary School	6	16.7%	6	16.7%	10	27.8%	2	5.6%
St Vincent's RC Primary School	7	15.2%	14	30.4%	7	15.2%	10	21.7%
Tyneview Primary School	3	9.4%	9	28.1%	6	18.8%	5	15.6%
Walkergate Primary School	12	8.0%	50	33.3%	41	27.3%	27	18.0%
West Walker Primary School	1	3.8%	10	38.5%	4	15.4%	6	23.1%
Welbeck Primary School	<b>62.5%</b>			35.0%	12	20.0%	3	5.0%
Wharrier Street Primary School				25.0%	0	0.0%	0	0.0%
Newcastle average				393	6.4%	1175	19.1%	1102



# **The challenge**

## **One of the challenges**

**There is a relationship between transport choice and health.**

**Can we quantify it?**

**Would that be useful?**

**What factors would we need to take into account?**

**Thank you**

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