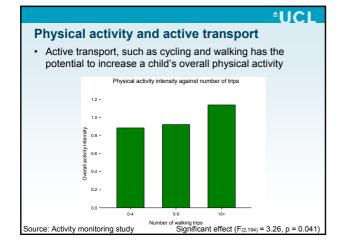
# Understanding the barriers to children's active transport

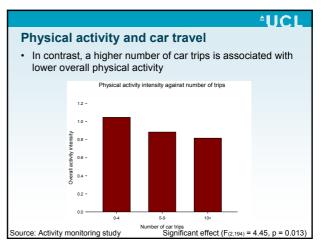
**≜IICI** 

James Paskins Centre for Transport Studies UCL

### The CAPABLE study

- Children's Activities Perceptions And Behaviour in the Local Environment
- 2 year EPSRC funded project involving
  - Centre for Transport Studies
  - Centre for Advanced Spatial Analysis
  - Bartlett School of Planning
  - Psychology Department
  - Young Foundation
- The project is using a variety of methods to look at children's behaviour in the local environment





### <sup>±</sup>UCL

### More details about children's physical activity

- The results covered in this presentation are taken from the CAPABLE parent questionnaire
- The results from the activity monitoring survey are explored in more depth in "The role of children's daily physical activity", presented yesterday.

## <sup>±</sup>UCI

### The parent questionnaire

- The main participants of the CAPABLE project are children in years 4, 5 and 6 (the last three years of primary school)
- In addition a questionnaire is being sent to all the parents of children in the primary schools that we are working in
- · The parent questionnaire covers
  - Household factors
  - Journeys for school and other travel
  - Children's independence and play
  - The factors parents consider when choosing how a child travels for school

**±UCI** 

# Number of responses to the parent questionnaire

	Hertfordshire	Lewisham		Total
	Holy Family	Kilmorie	Perrymount	
Nursery	0	3	10	13
Reception	13	7	1	21
Year 1	21	6	16	43
Year 2	17	10	9	36
Year 3	13	9	7	29
Year 4	18	12	10	40
Year 5	18	8	10	36
Year 6	12	9	11	32
Total	112	64	74	250

# Percentage of children who are usually accompanied on the journey to school

	Hertfordshire	Lewisham		Total
	Holy Family	Kilmorie	Perrymount	
Nursery	-	67	70	69
Reception	62	57	0	57
Year 1	62	33	75	63
Year 2	59	10	56	44
Year 3	62	56	29	52
Year 4	39	17	0	23
Year 5	17	25	40	25
Year 6	17	22	9	16
Total	46	31	45	42

### **≜UCL**

# Percentage of children who are usually accompanied on the journey to school

	Hertfordshire	Lewisham	Total
Nursery	-	69	69
Reception	62	50	57
Year 1	62	64	63
Year 2	59	32	44
Year 3	62	44	52
Year 4	39	9	23
Year 5	17	33	25
Year 6	17	15	16
Total	46	38	42

# Percentage of children who are usually accompanied on the journey to school

### <sup>≜</sup>UCL Percentage of children who travel to school by car and by walking

	Walk			Car		
	Hertfordshire	Lewisham	Total	Hertfordshire	Lewisham	Total
Nursery	-	62%	62%	-	38%	38%
Reception	18%	86%	44%	82%	14%	56%
Year 1	15%	61%	37%	85%	39%	63%
Year 2	15%	75%	48%	85%	25%	52%
Year 3	33%	71%	57%	67%	29%	43%
Year 4	13%	69%	42%	87%	31%	58%
Year 5	17%	71%	46%	83%	29%	54%
Year 6	8%	82%	52%	92%	18%	48%
Total	16%	72%	48%	84%	28%	52%

# Mode and accompaniment on the journey to school • The number of children who are accompanied to

- school drops as the children get older
  There is not a very large difference between Hertfordshire and Lewisham
- Mode to school is relatively stable across year group within each location
- Location and school type plays a large role in determining children's mode of travel to school

**≜UCL** 



### Other independent behaviours

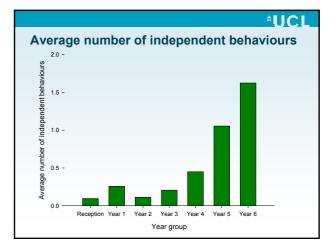
- Similar results are seen for
  - Travelling without an adult within a mile (11.4)

- Travelling without an adult to friend's houses (11.6)
- Going out after dark without an adult (14)
- Crossing main roads without an adult (11.2)
- Travelling on the bus without an adult (11.9)
   Cycling without an adult (12.6)
- · All the average ages are above 11
- Many of the parents seem to see their child going to secondary school as an appropriate transition point

### **<sup>±</sup>UCL**

### Total independent behaviour score

- The independent behaviour score is how many of the following behaviours the child is allowed to do without an adult
  - Travelling to school
  - Travelling within a mile
  - Travelling to a friend's houses
  - Going out after dark
  - Crossing main roads
  - Travelling on the bus
  - Cycling alone



### <u>±UCI</u>

# Which independent behaviours are children allowed to do?

- · Children are most likely to be able to
  - Travel to a friend's houses without an adult
  - Travel to school without an adult
  - Travel within a mile without an adult
  - Cross main roads without an adult
- · Children are least likely to be able to
  - Go out after dark without an adult
  - Cycle on main roads without an adult
  - Use the bus without an adult

### Average number of independent behaviours

- Boys and girls show very similar independent behaviour scores
- Girls are slightly more independent overall

	Boys	Girls
Reception	0.3	0.0
Year 1	0.1	0.1
Year 2	0.1	0.1
Year 3	0.2	0.3
Year 4	0.5	0.5
Year 5	1.1	1.1
Year 6	1.5	1.6
Total	0.5	0.6

**±IICI** 

### Independent behaviours

- · The average number of independent behaviours is low
- · Around 70% of children do not take part in any of these independent behaviours
- · Overall girls are more likely to be able to, or want to, travel alone to visit their friends than boys

### Parental concerns

- · Parents were asked if they had considered any of the following factors when deciding on how there child should travel to school (and which they thought were critical)
  - Convenience
  - The distance that your child has to travel
  - Someone available to accompany your child
  - Your child's road safety skills
  - Spending time with your child
  - Your child's health and fitness
  - Concerns about road traffic danger
  - Concerns about stranger danger
  - Encouraging your child's independence
  - Possibility that your child will get lost - The amount your child has to travel
  - The risk of bullying by other children

≜UC1 Parental concerns Factor Considered Critical 83% 48% Convenience 75% 68% The distance that your child has to travel 27% Someone available to accompany your child 47% 47% 28% Your child's road safety skills Spending time with your child 44% 19% Your child's health and fitness 42% 21% 41% 28% Concerns about road traffic danger Concerns about stranger danger 32% 24% Encouraging your child's independence 32% 15% Possibility that your child will get lost 21% 10% The amount your child has to carry 17% 6% 16% 10% The risk of bullying by other children

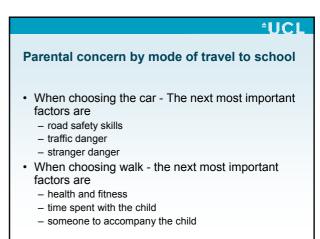
### Parental concerns

- · Concerns about the danger from strangers and road traffic come further down the list than might be expected
- · The level of concern for most factors does not vary much with child's year group
- Concerns about stranger danger and bullying by other children do increase slightly as the children get older

### **FIICI**

### Parental concern by mode of travel to school

- · The question specifically relates to the mode chosen for the school journey
- · For parents who choose car and for parents who choose walk, distance and convenience are the most mentioned factors
- · The rest of the top five most mentioned reasons are different depending on the mode chosen



**ALICI** 

# Parental concerns and children's independent behaviour

It might be expected that a parent's concerns will <u>reduce</u> their children's independent behaviour But

For nearly every factor

- · parents who had considered it
- · or who considered it as critical

had children with higher independent behaviour scores

### Average independent behaviour score

	Critical	Not critical
Convenience	0.60	0.47
The distance that your child has to travel	0.56	0.46
Someone available to accompany your child	0.63	0.48
Your child's road safety skills	0.79	0.44
Spending time with your child	1.03	0.43
Your child's health and fitness	0.85	0.45
Concerns about road traffic danger	0.80	0.44
Concerns about stranger danger	0.56	0.50
Encouraging your child's independence	1.03	0.44
Possibility that your child will get lost	0.60	0.50
The amount your child has to carry	0.55	0.51
The risk of bullying by other children	0.59	0.51

**<sup>±</sup>UCL** 

<sup>±</sup>UCI

### Conclusions

- More walking and fewer car trips leads to higher overall physical activity
- Few parents allow their children out to travel unaccompanied
- If a child is not allowed to do a particular behaviour already, it is likely they will have to wait until secondary school
- There is a link between a parent's concerns and a child's independence

### Further information:

- CAPABLE website
   www.casa.ucl.ac.uk/capableproject/
- E-mail: james@transport.ucl.ac.uk
- Phone: 020 7679 7872

### IIC:

**±UCI**