



Daily mobility and the regions in Belgium

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How strong are the regional differences?

We focus here on

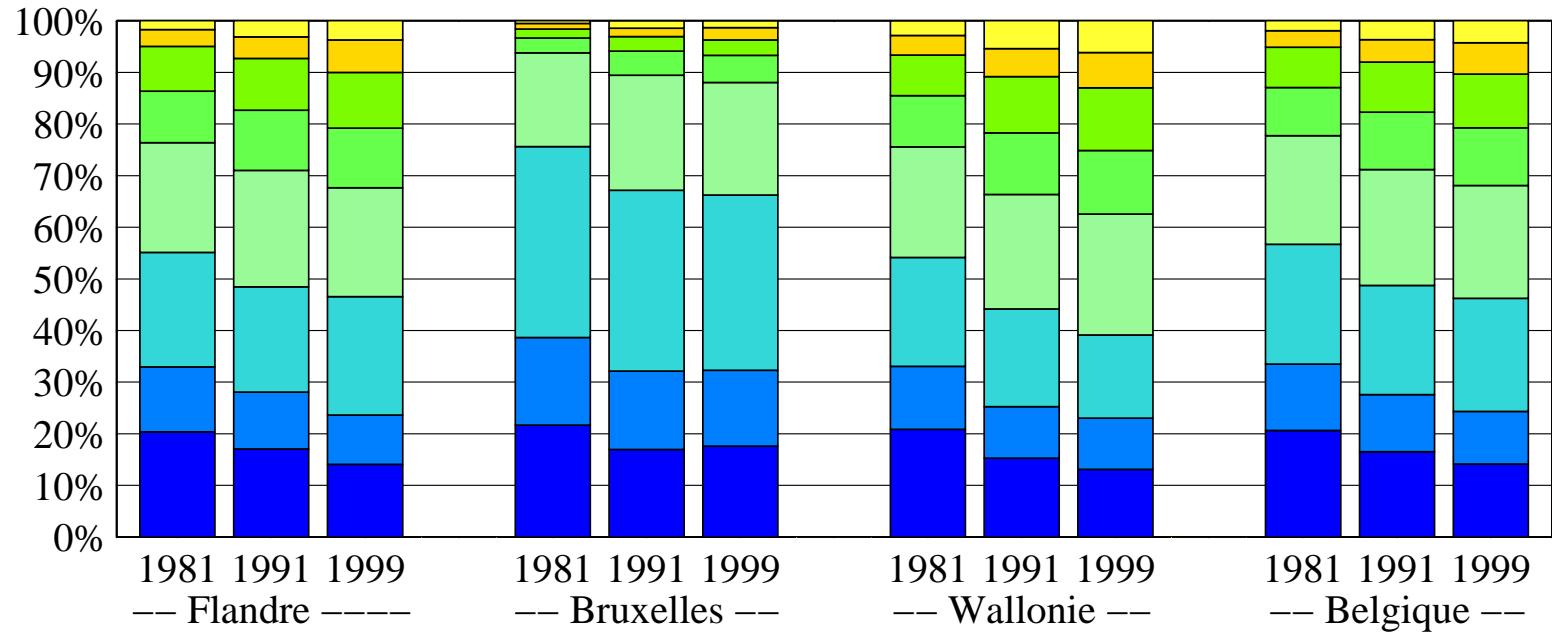
- mobility of **individuals** (as opposed to freight)
- **daily** mobility patterns and indicators
- items of “interest” or with significant regional component

Purpose: obtain a first appraisal on what, if anything, makes people behave differently in the 3 regions
(everything based on the **MOBEL 1999** survey)

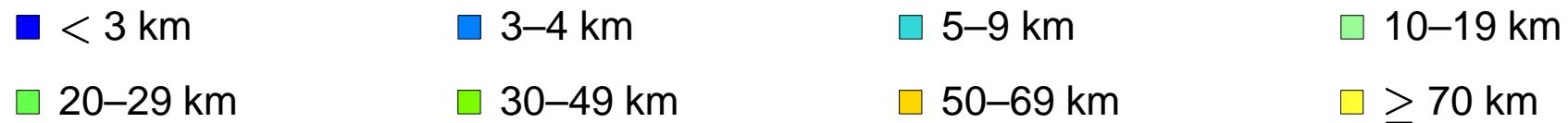
Distance to work

Outline

- Introduction
- ***The households***
- Socio-spatial aspects
- Temporality
- Trip purpose
- Modal choice
- Conclusions



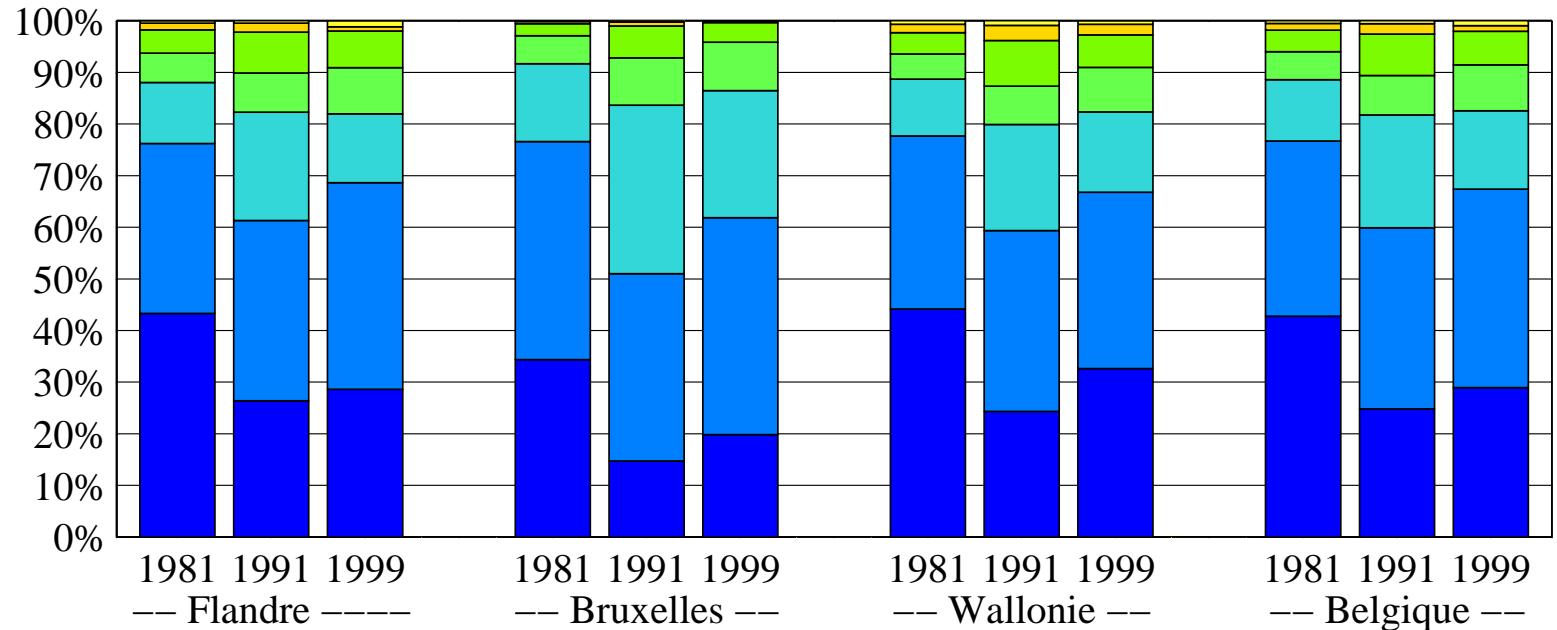
Evolution of the distance to work
between 1981 and 1999 (census source: INS)



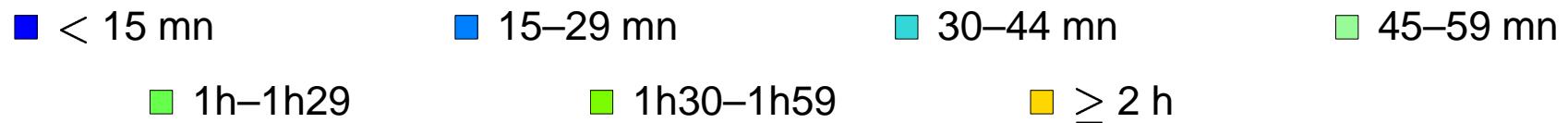
ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

Trip to work duration

- Outline**
- Introduction
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 - Conclusions



Evolution of the duration of the trip
to work between 1981 and 1999 (census source: INS)

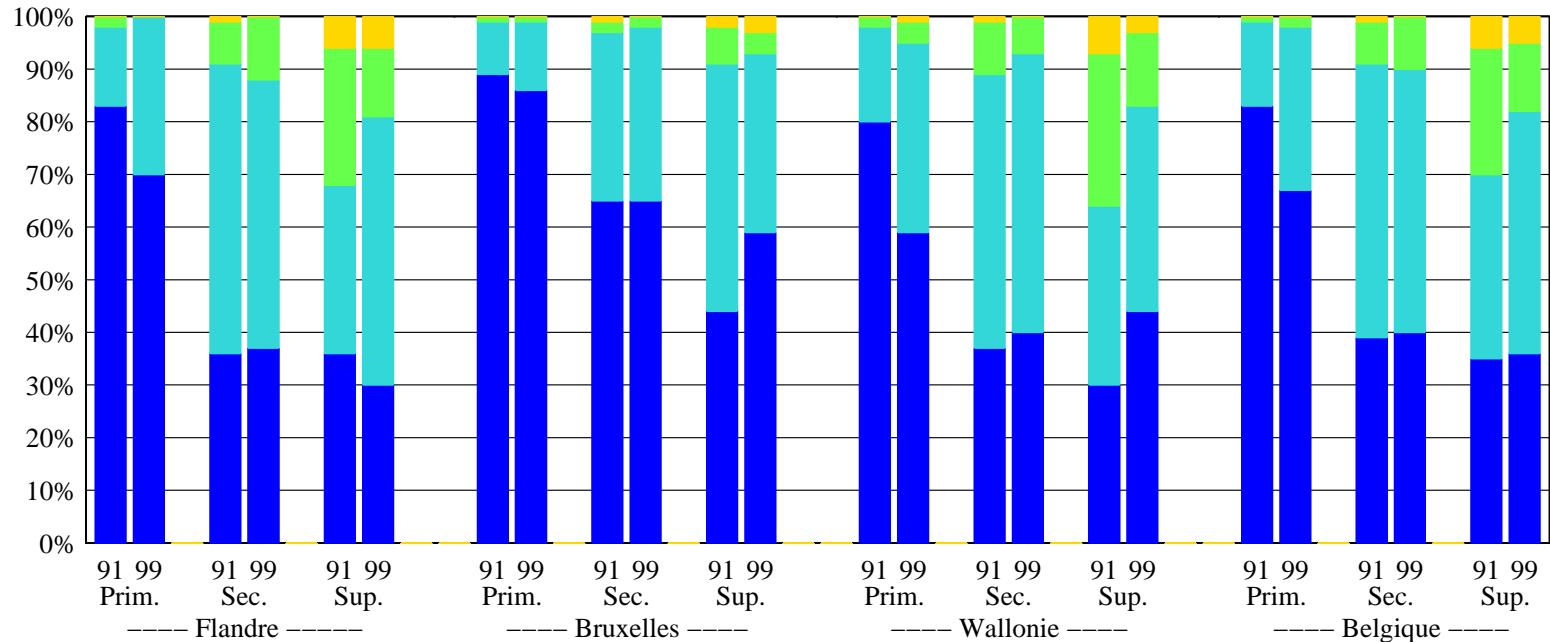


ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

Distance to school

Outline

- Introduction
- *The households*
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- Conclusions



Evolution of the distance to school between 1991 and 1999

■ < 5 km

■ 5–20 km

■ 20–50 km

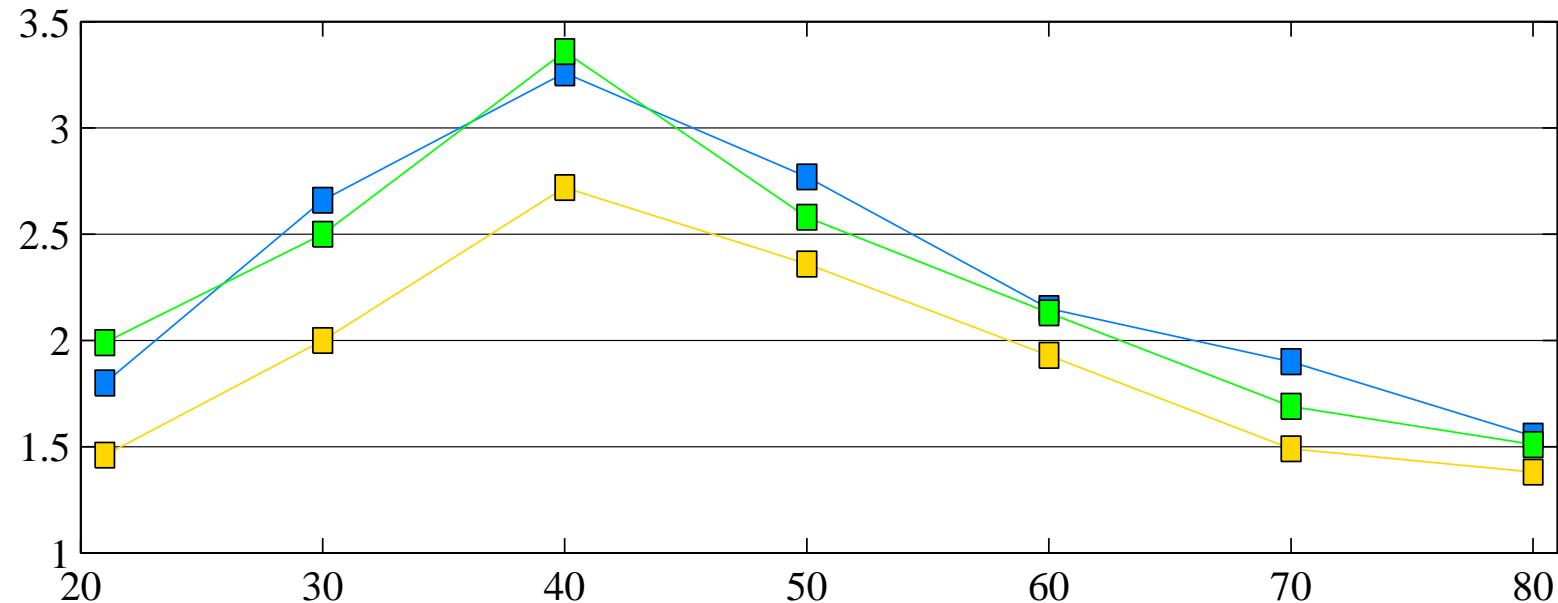
■ ≥ 50 km

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Age and size of households

- Outline**
- Introduction
 - **The households**
 - Socio-spatial aspects
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 - Trip purpose
 - Modal choice
 - Conclusions



Size of households according to age of household head

■ Flanders

■ Brussels

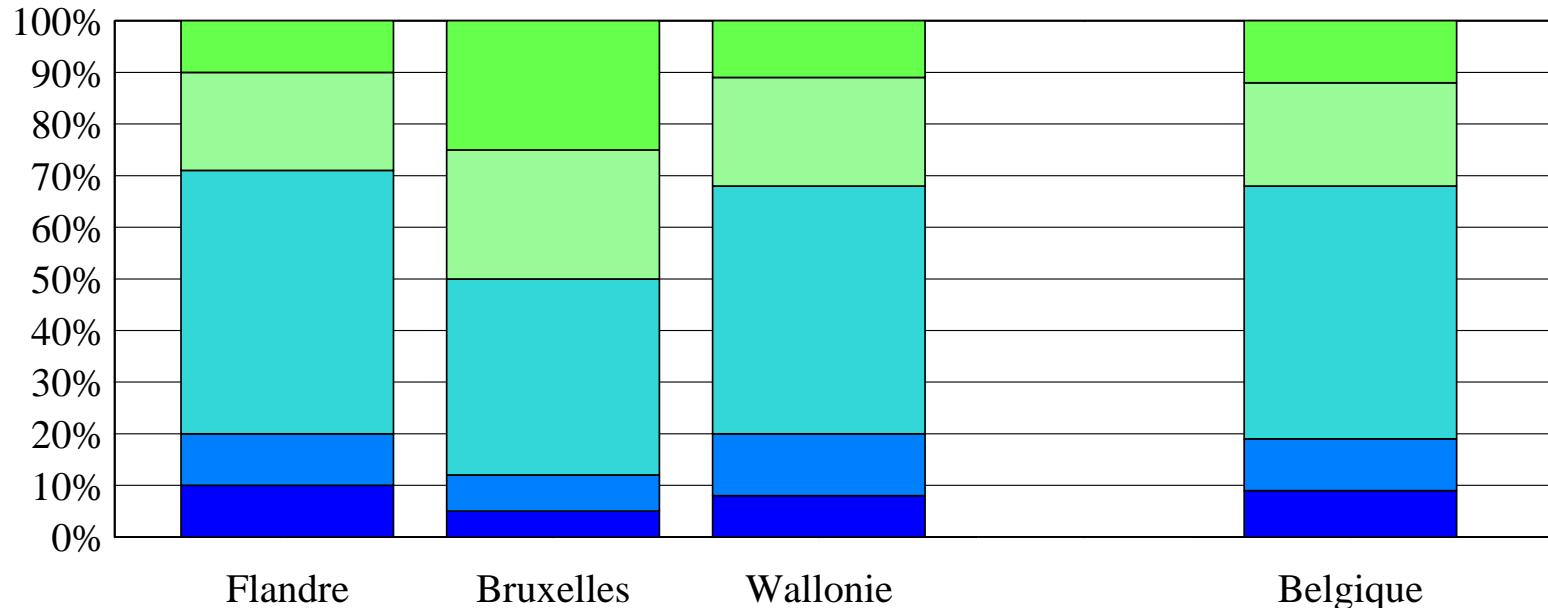
■ Wallonia

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Level of formal education

- Outline**
- Introduction
→ *The households*
 - Socio-spatial aspects
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 - Trip purpose
 - Modal choice
 - Conclusions



Distribution of highest school degree for household heads

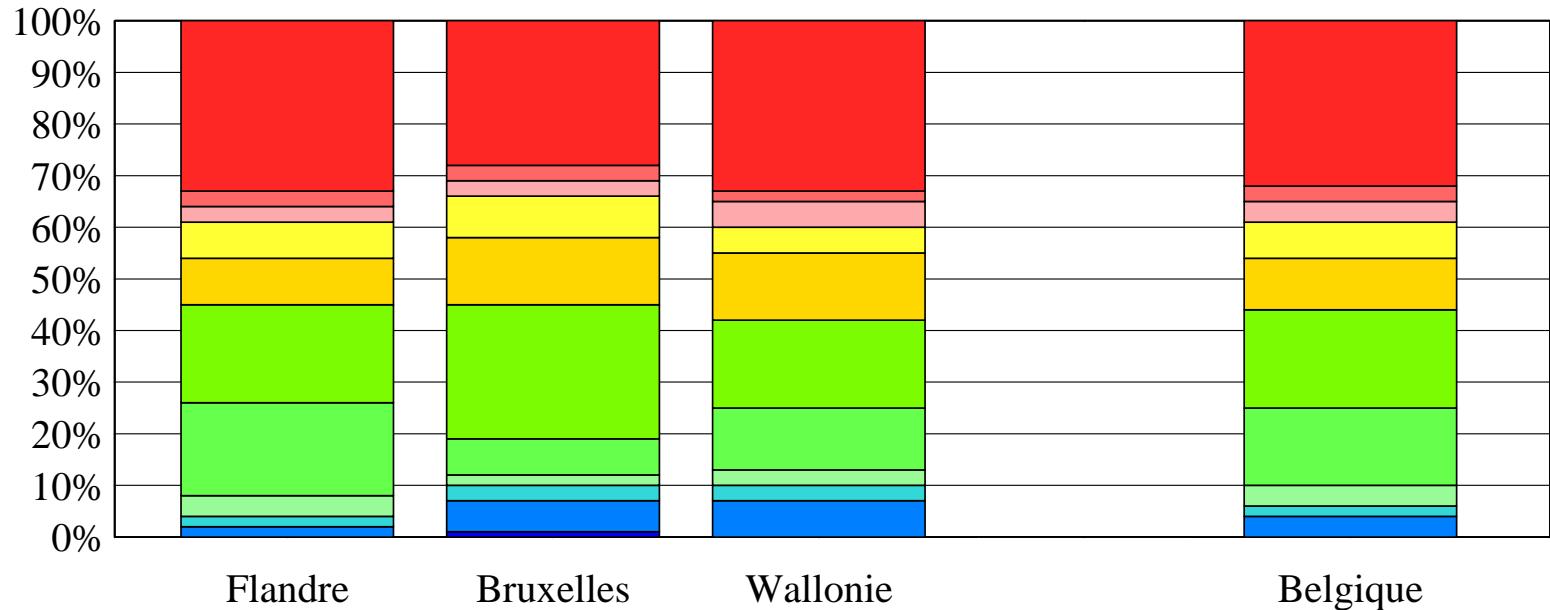
- No diploma
- Primary
- Secondary
- Sup. non univ.
- University

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Professional status

- Outline**
- Introduction
 - **The households**
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 - Modal choice
 - Conclusions



Professional status of household heads

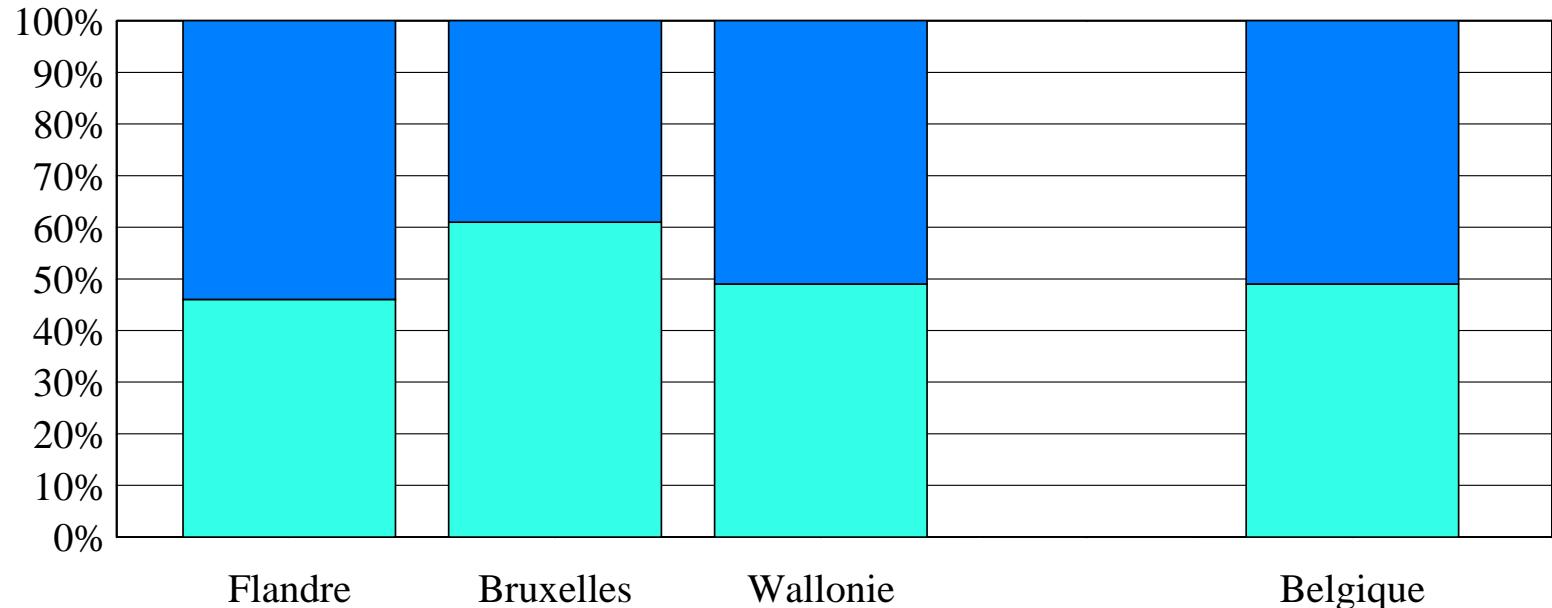
- | | | | |
|---------------|-----------------|-----------------|---------------|
| ■ Student | ■ Job seeker | ■ Invalid | ■ M/F at home |
| ■ Blue collar | ■ White collar | ■ Civil servant | ■ Indépendant |
| ■ Teacher | ■ Liberal prof. | ■ Retired | |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

Outline

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Number of incomes



Distribution of households with single or multiple incomes

■ One income

■ More than one

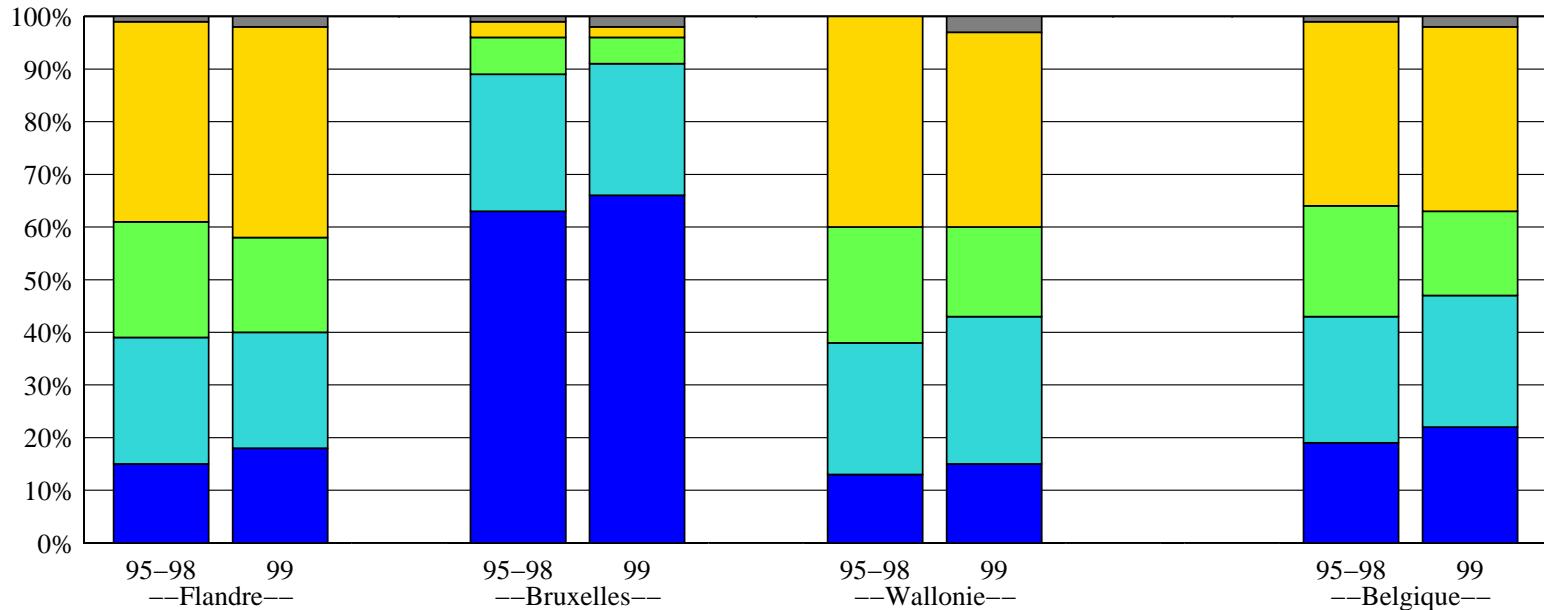
ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Housing type

Outline

- Introduction
- ***The households***
- Socio-spatial aspects
- Temporality
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- Modal choice
- Conclusions



Evolution of housing type between 1995-1998 and 1999
 (source for 1995-1998: INS)

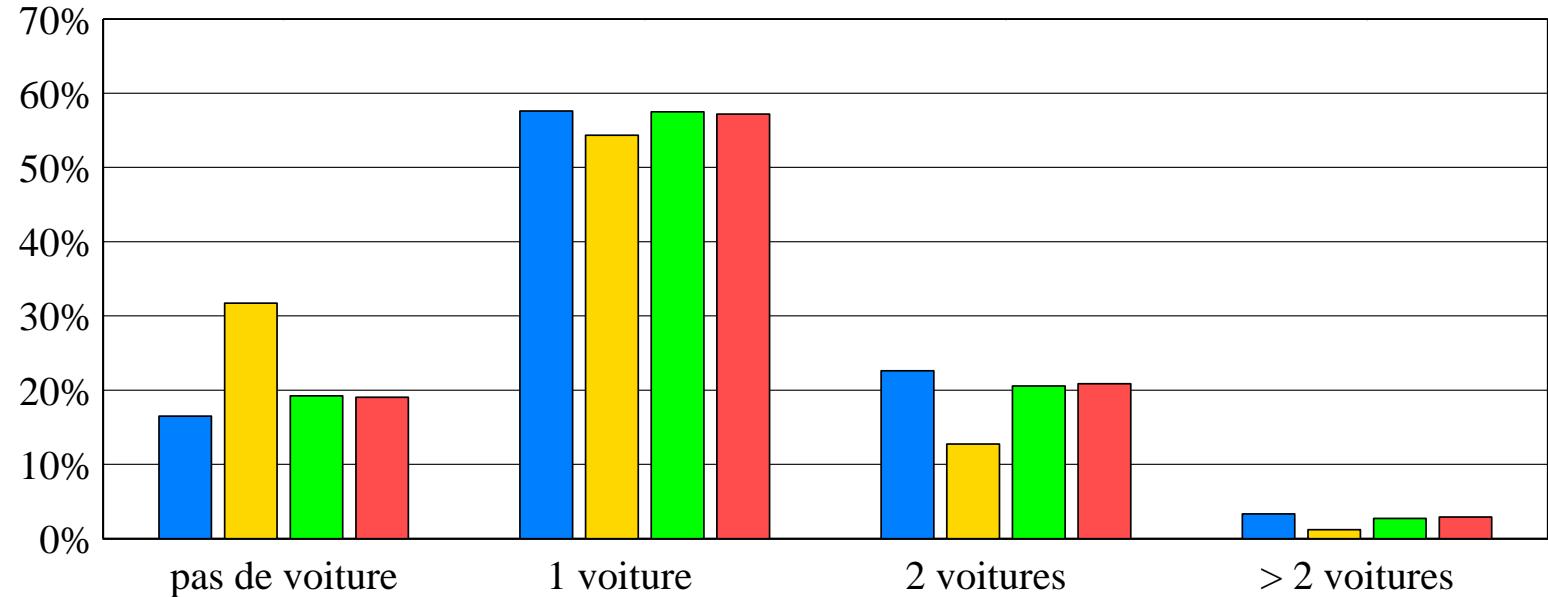
- █ Apartment
- █ Terrace
- █ Semi-detached
- █ Detached
- █ Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 10

Motorisation

Outline

- Introduction
- ***The households***
- Socio-spatial aspects
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- Modal choice
- Conclusions



Proportion of the Belgian households according to their number of cars

■ Flanders

■ Brussels

■ Wallonia

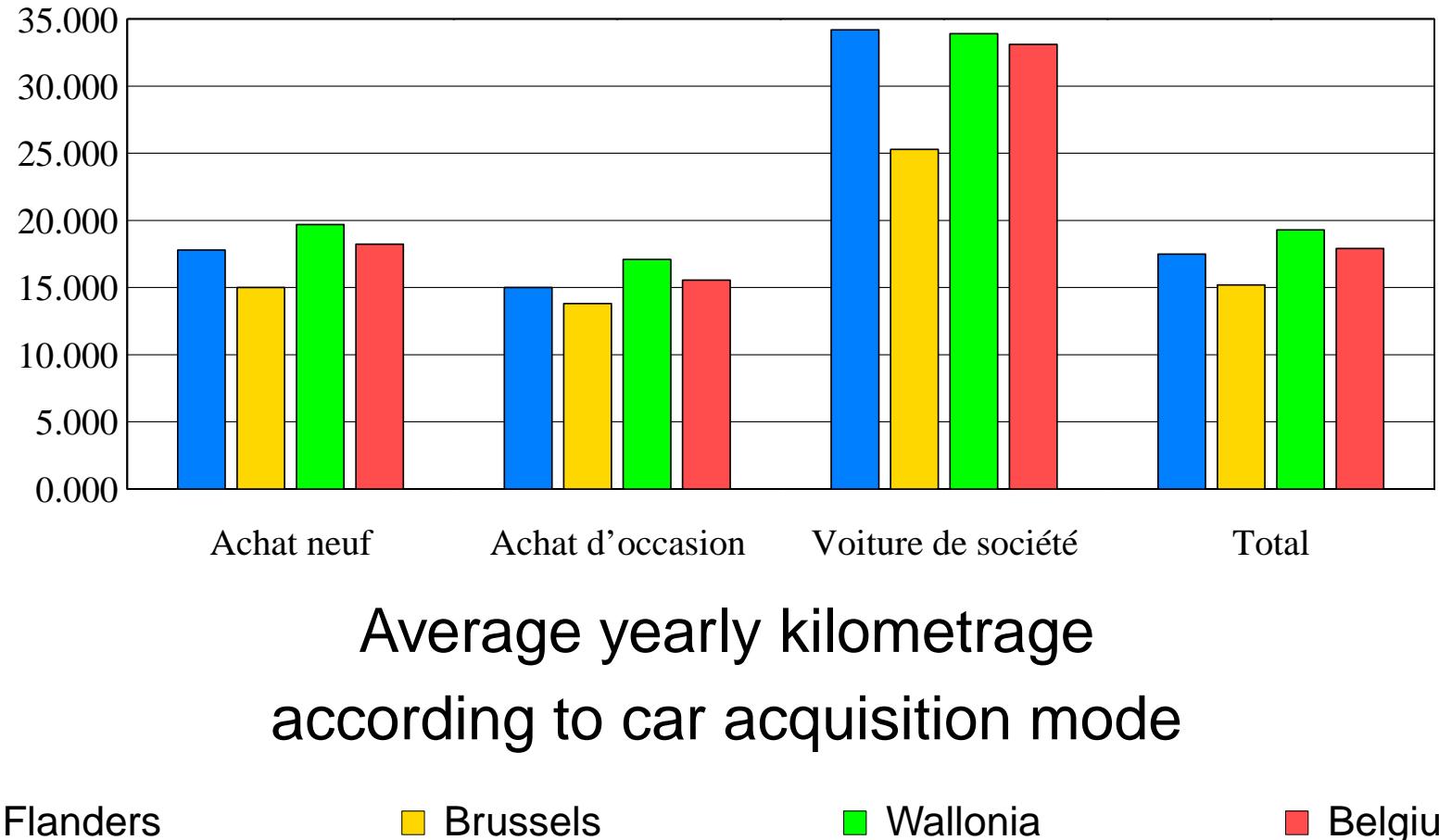
■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 11

What cars are used most?

Outline

- Introduction
- ***The households***
- Socio-spatial aspects
- Temporality
- Trip purpose
- Modal choice
- Conclusions

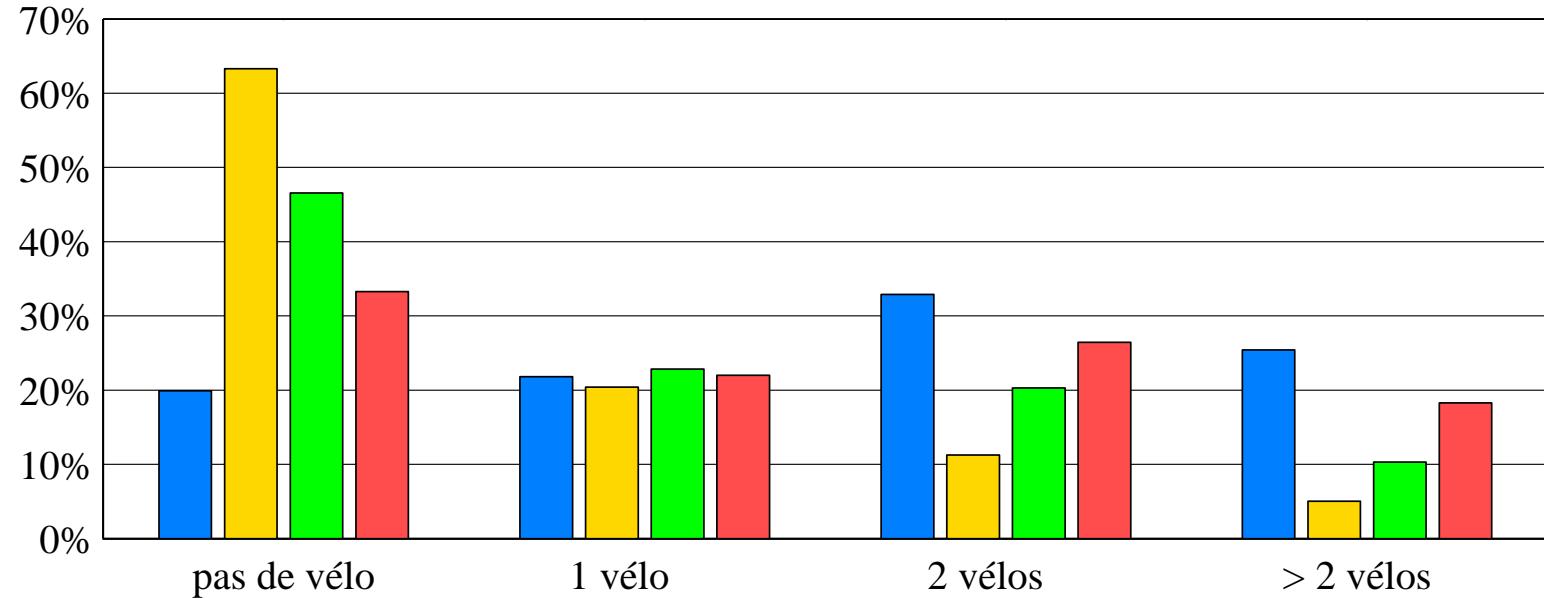


ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 12

Cycle ownership

Outline

- Introduction
- ***The households***
- Socio-spatial aspects
- Temporality
- Trip purpose
- Modal choice
- Conclusions



Distribution of the number of cycles per household

■ Flanders

■ Brussels

■ Wallonia

■ Belgium

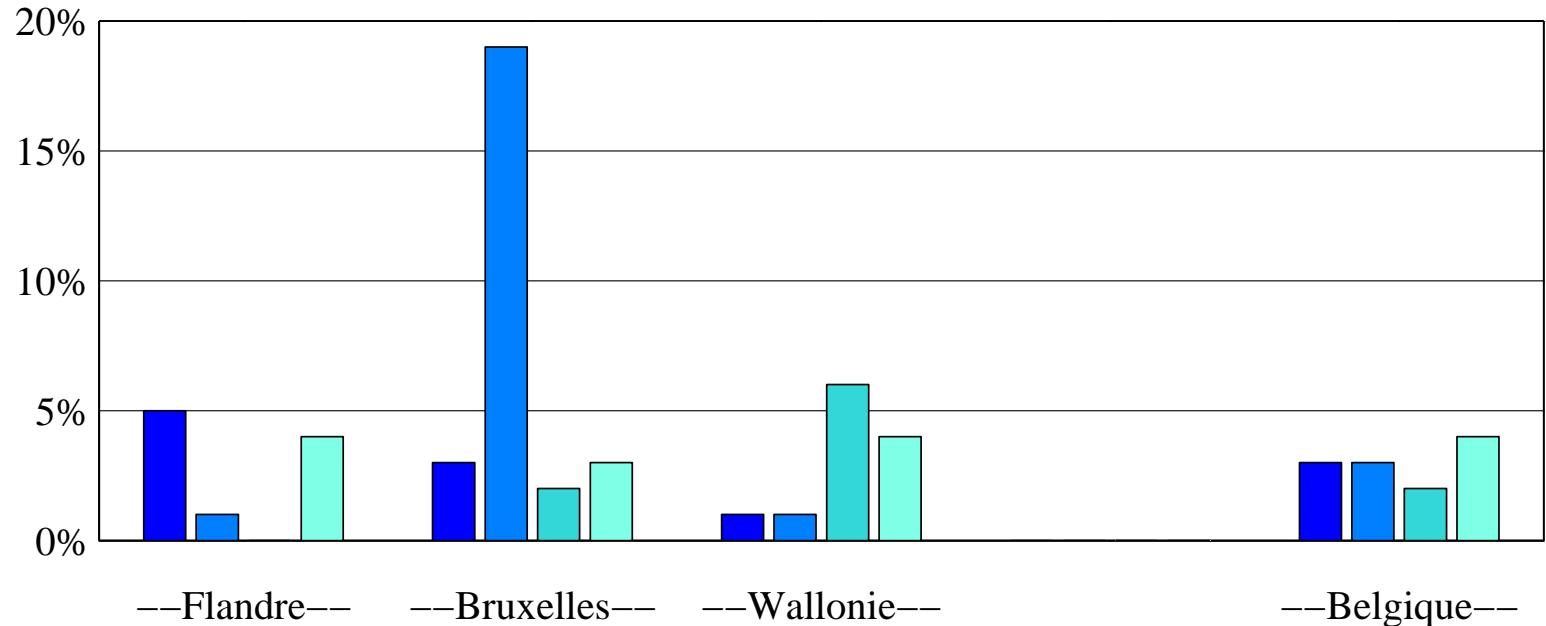
ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 13



Public transport season tickets

Outline

- Introduction
- **The households**
- Socio-spatial aspects
- Temporality
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- Modal choice
- Conclusions



Ownership of season tickets for public transport operators
per household

■ De Lijn

■ MIVB-STIB

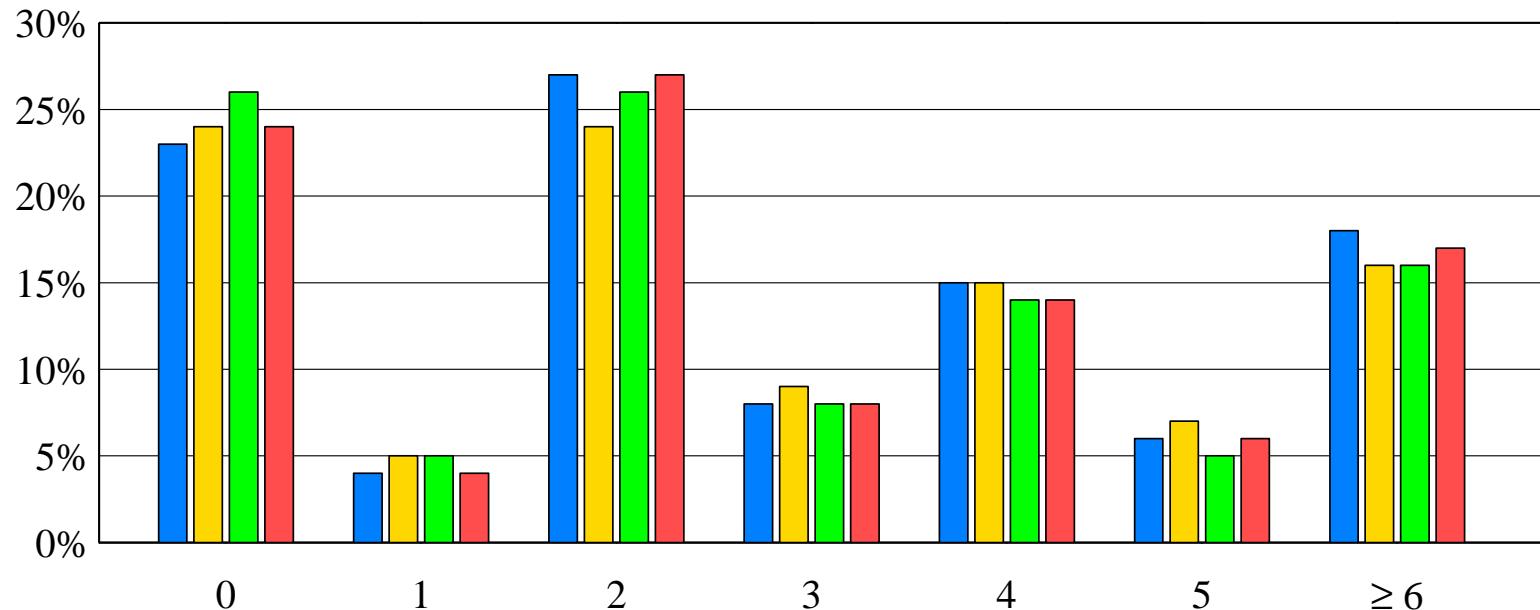
■ TEC

■ NMBS-SNCV

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 14

Basic mobility (1)

- Outline**
- Introduction
 - The households
 - **Socio-spatial aspects**
 - Temporality
 - Trip purpose
 - Modal choice
 - Conclusions



Proportion of individuals according to their average number
of trips per day

■ Flanders

■ Brussels

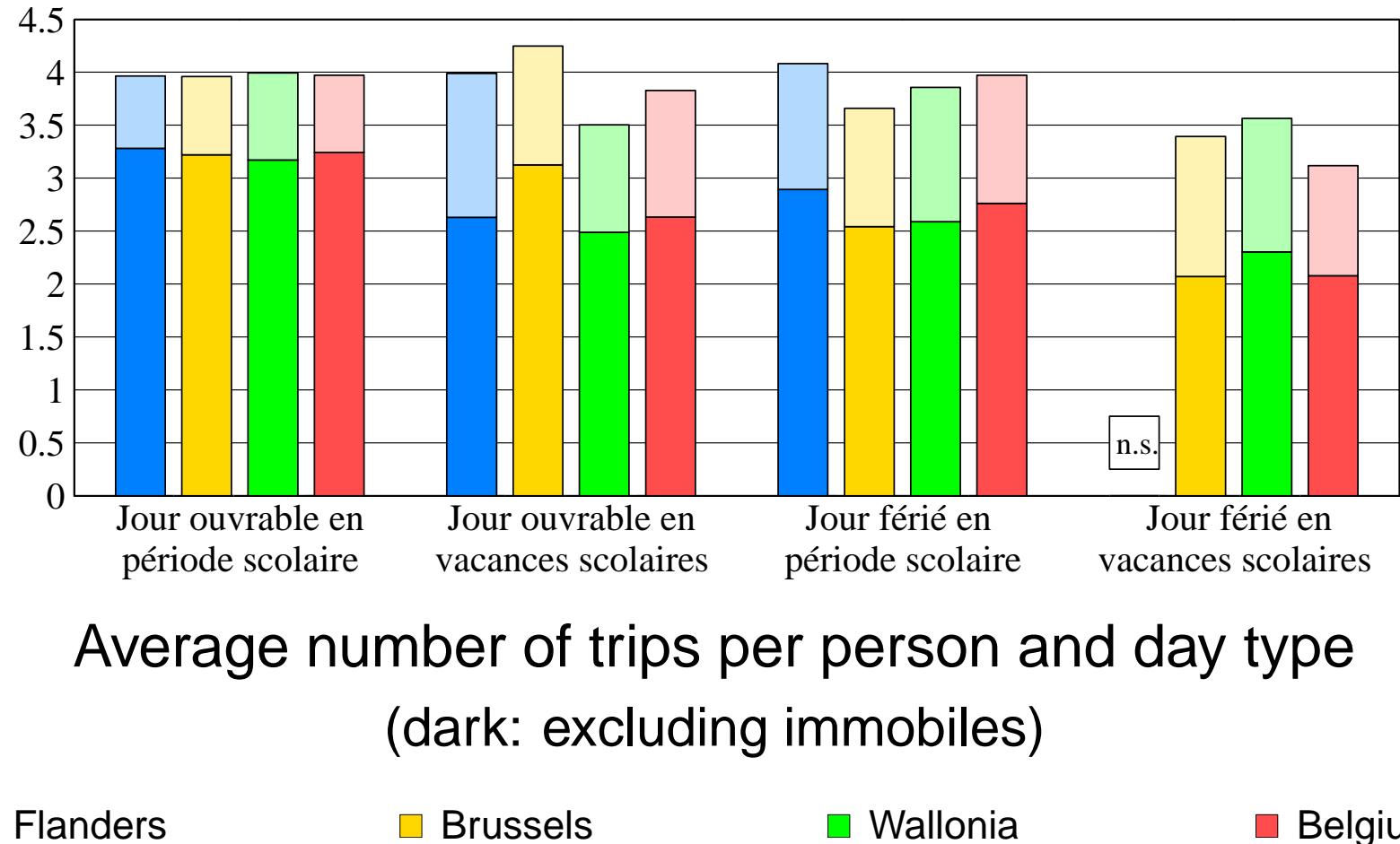
■ Wallonia

■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 15

Basic mobility (2)

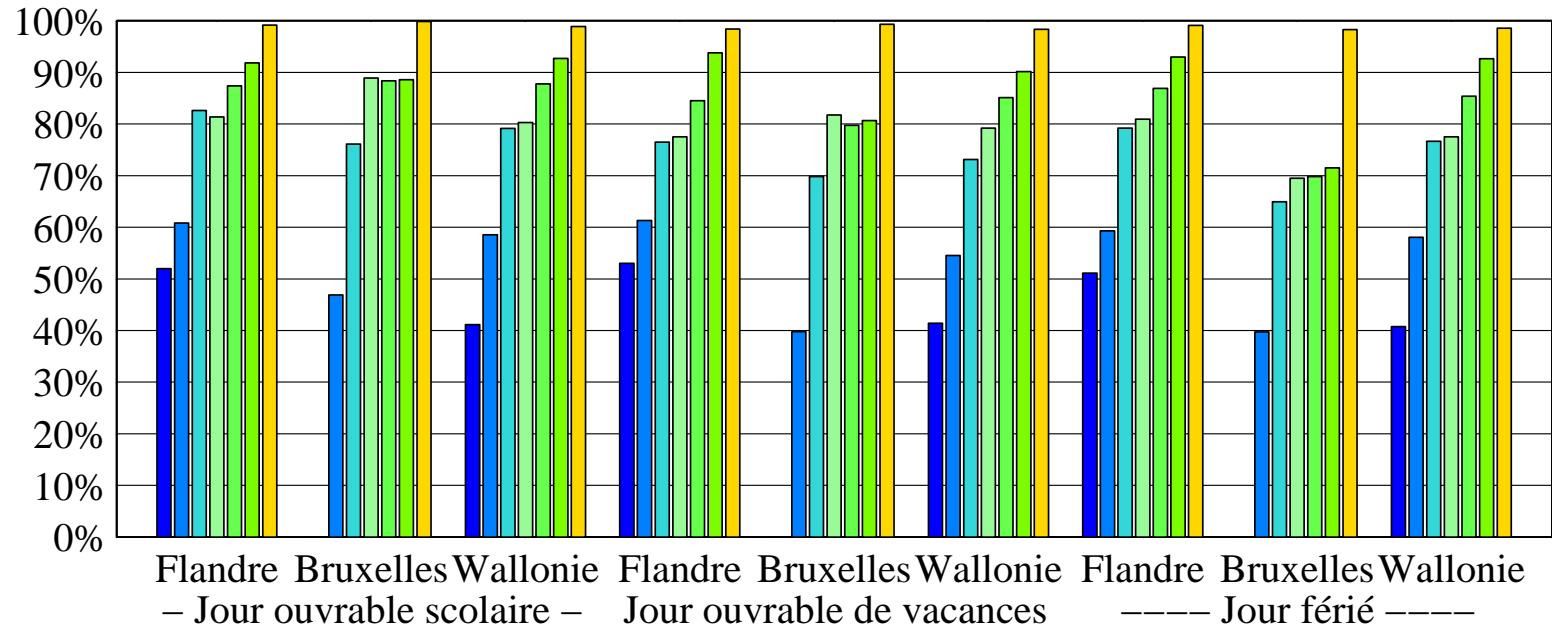
- Outline**
- Introduction
 - The households
 - **Socio-spatial aspects**
 - Temporality
 - Trip purpose
 - Modal choice
 - Conclusions



ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 16

Locality of the daily trips

- Outline**
- Introduction
 - The households
 - **Socio-spatial aspects**
 - Temporality
 - Trip purpose
 - Modal choice
 - Conclusions



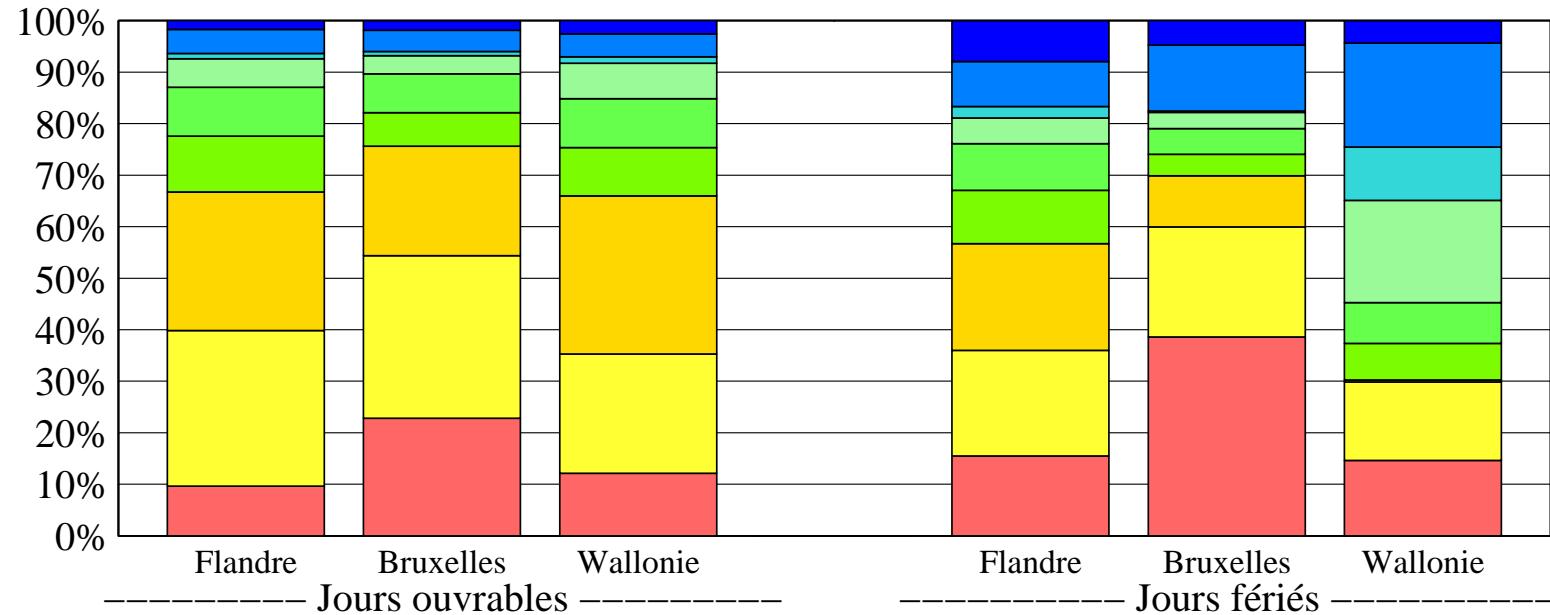
Proportion of trips leaving territorial units of increasing size



ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Travelling together?



Distribution of household trips according to membership and day type

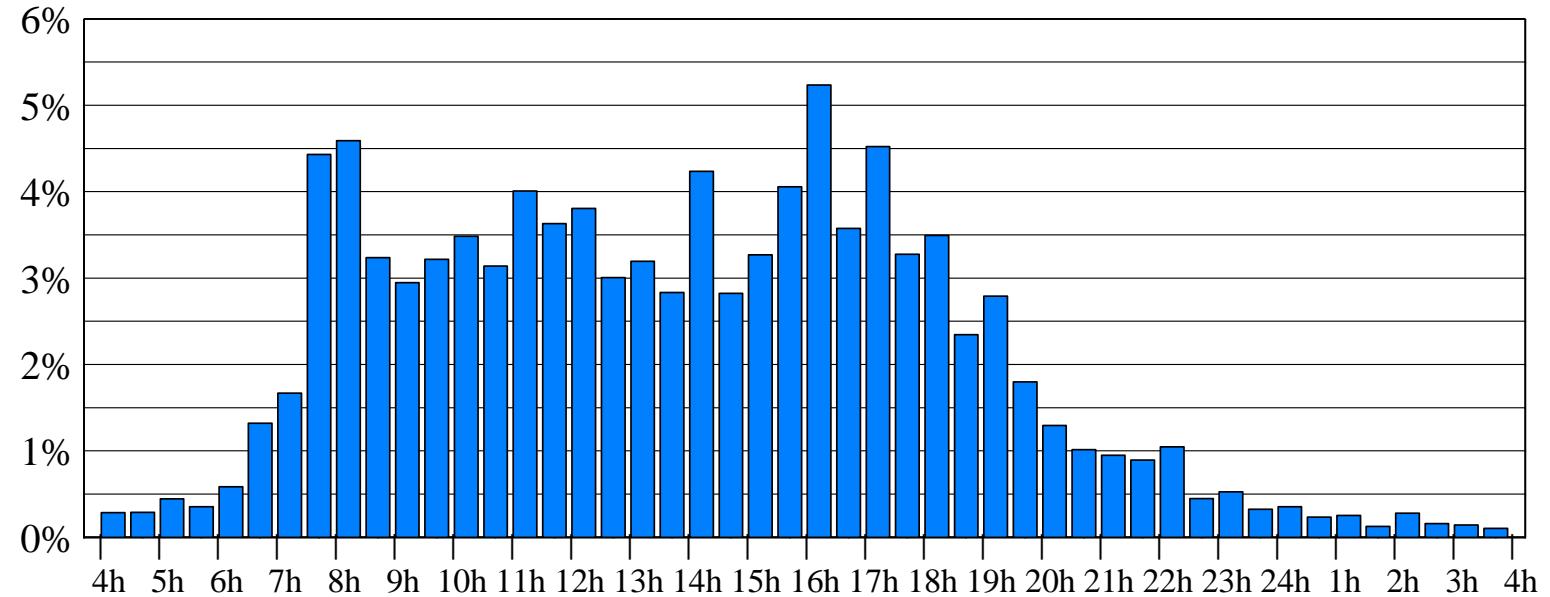
- 2 parents + others
- 1 parent + others
- 1 parent
- 2 couple members
- 1 child
- 1 couple member
- 2 parents
- 1 adult
- 1 isolated



Mobility in the day (Flanders)

Outline

- Introduction
- The households
- Socio-spatial aspects
→ **Temporality**
- Trip purpose
- Modal choice
- Conclusions



Distribution of trip departure times per hour
on an average day in Flanders

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

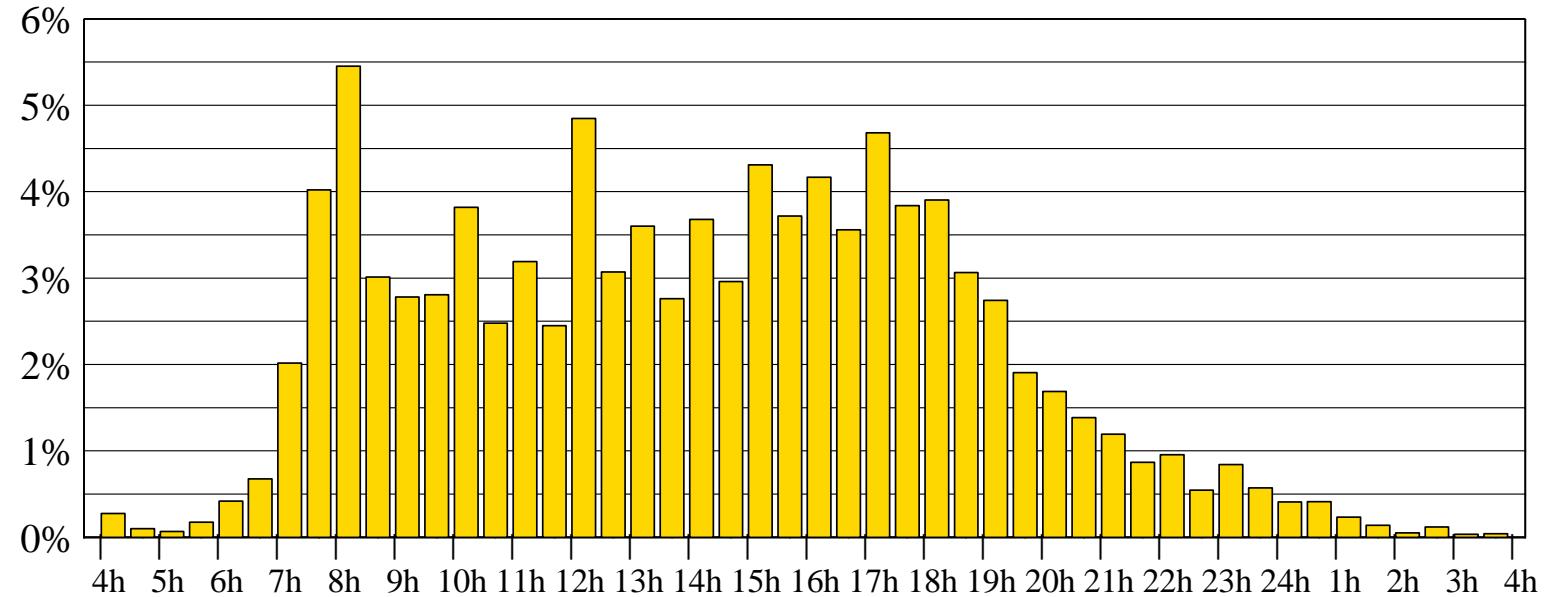
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Mobility in the day (Brussels)

Outline

- Introduction
- The households
- Socio-spatial aspects
- **Temporality**
- Trip purpose
- Modal choice
- Conclusions



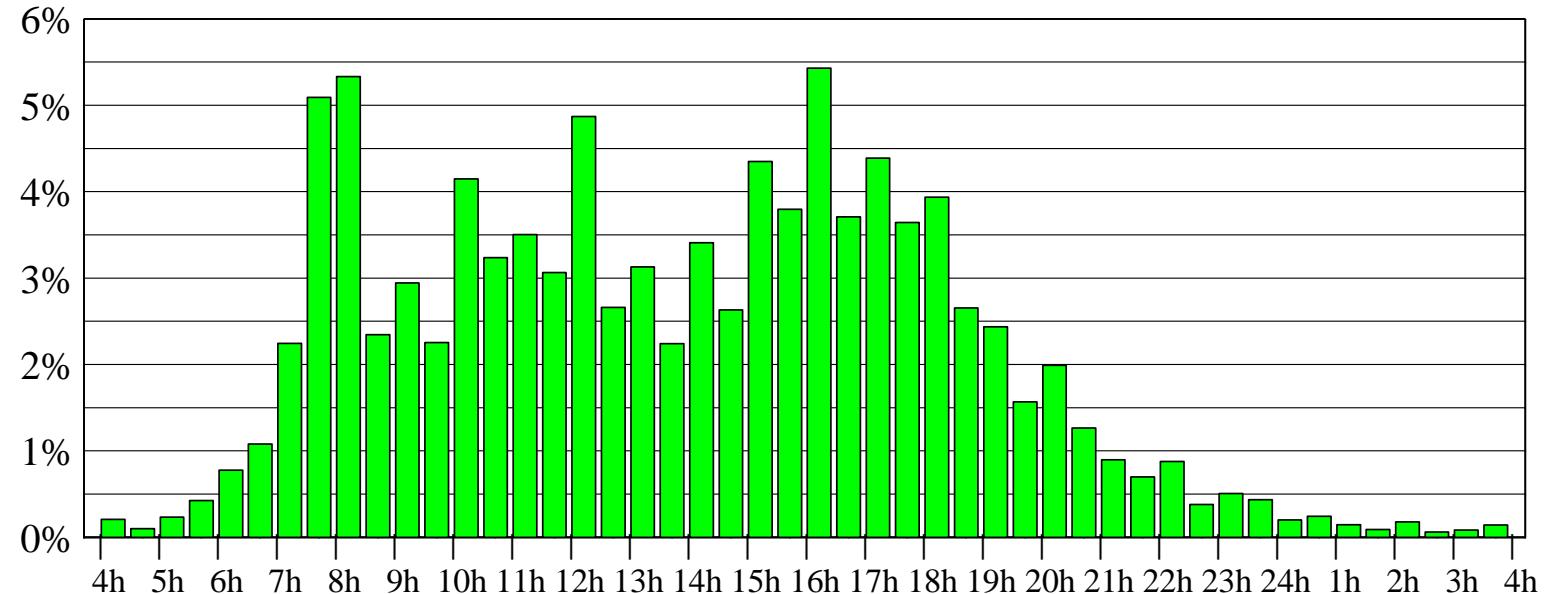
Distribution of trip departure times per hour
on an average day in Brussels

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 20

Mobility in the day (Wallonia)

Outline

- Introduction
- The households
- Socio-spatial aspects
- **Temporality**
- Trip purpose
- Modal choice
- Conclusions



Distribution of trip departure times per hour
on an average day in Wallonia

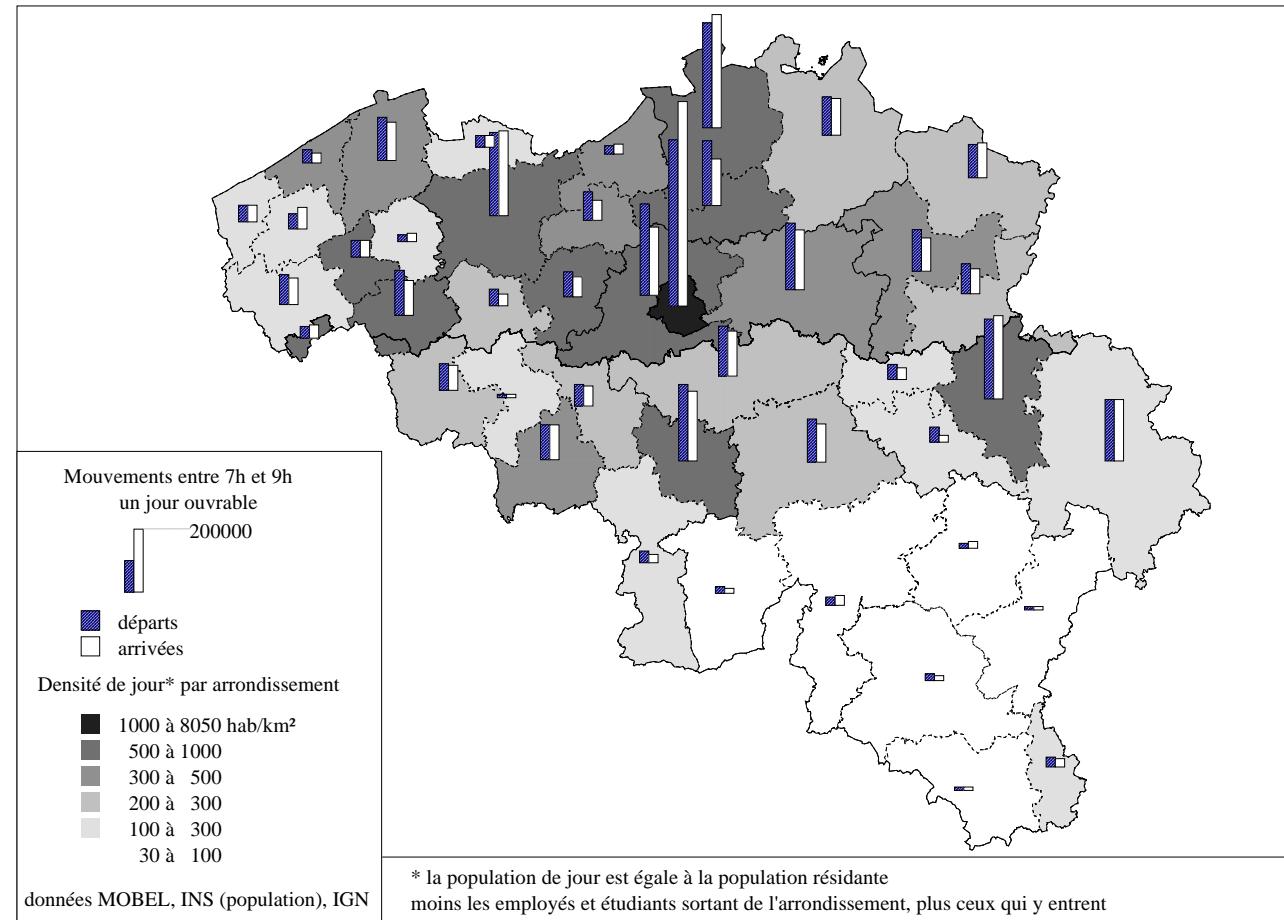
ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 21



Departures and arrivals during the morning peak

Outline

- Introduction
- The households
- Socio-spatial aspects
- **Temporality**
- Trip purpose
- Modal choice
- Conclusions



Distribution of the numbers of departures and arrivals per district during the morning peak

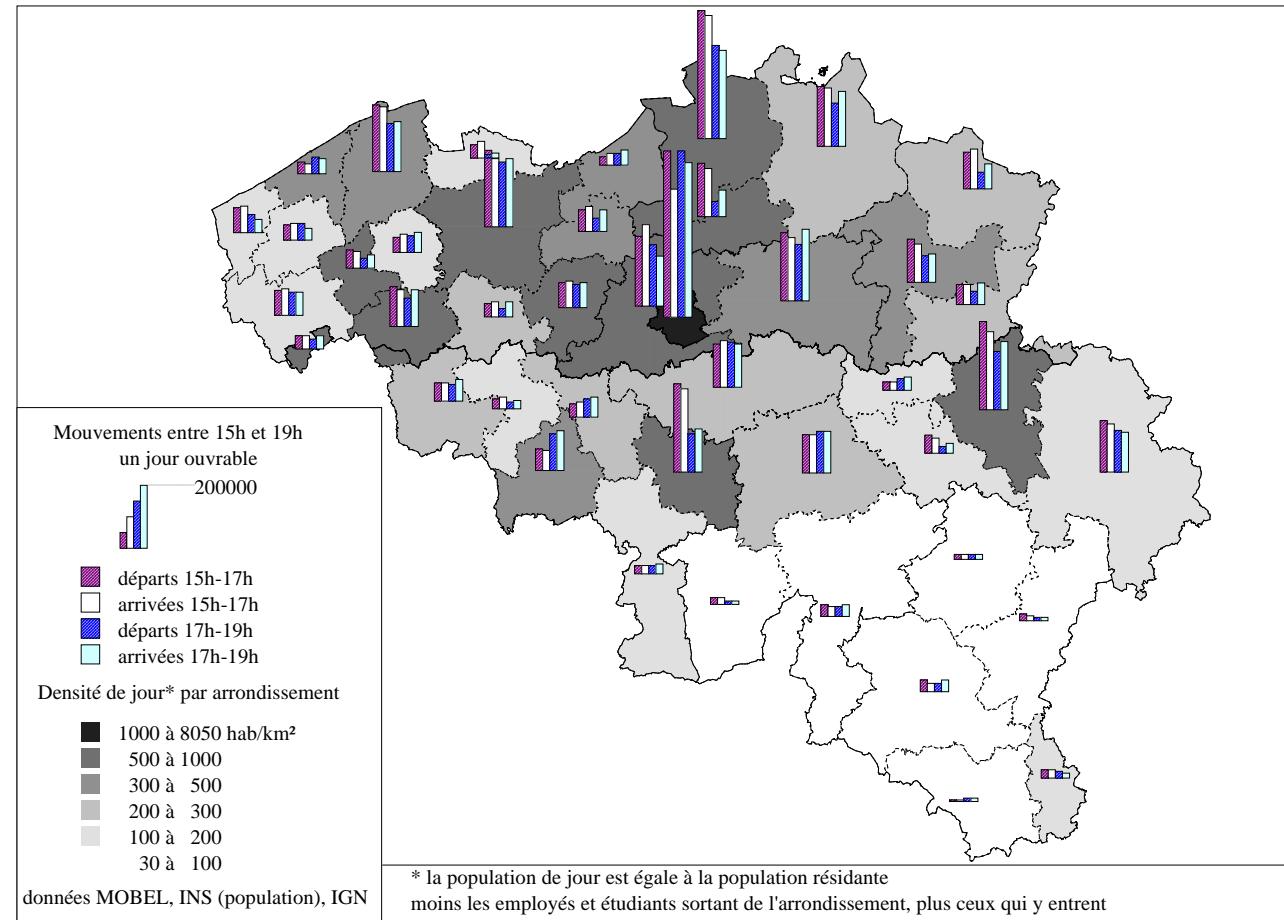
ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 22



Departures and arrivals during the evening peak

Outline

- Introduction
- The households
- Socio-spatial aspects
- **Temporality**
- Trip purpose
- Modal choice
- Conclusions



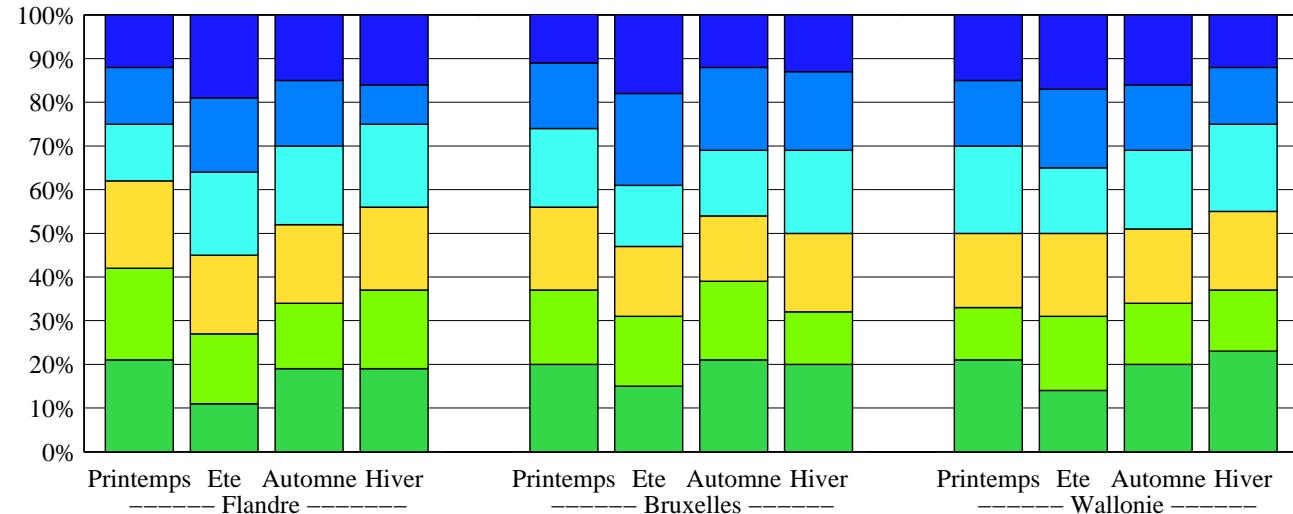
Distribution of the numbers of departures and arrivals per district during the evening peak

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 23

Travel times and seasons

Outline

- Introduction
- The households
- Socio-spatial aspects
- **Temporality**
- Trip purpose
- Modal choice
- Conclusions

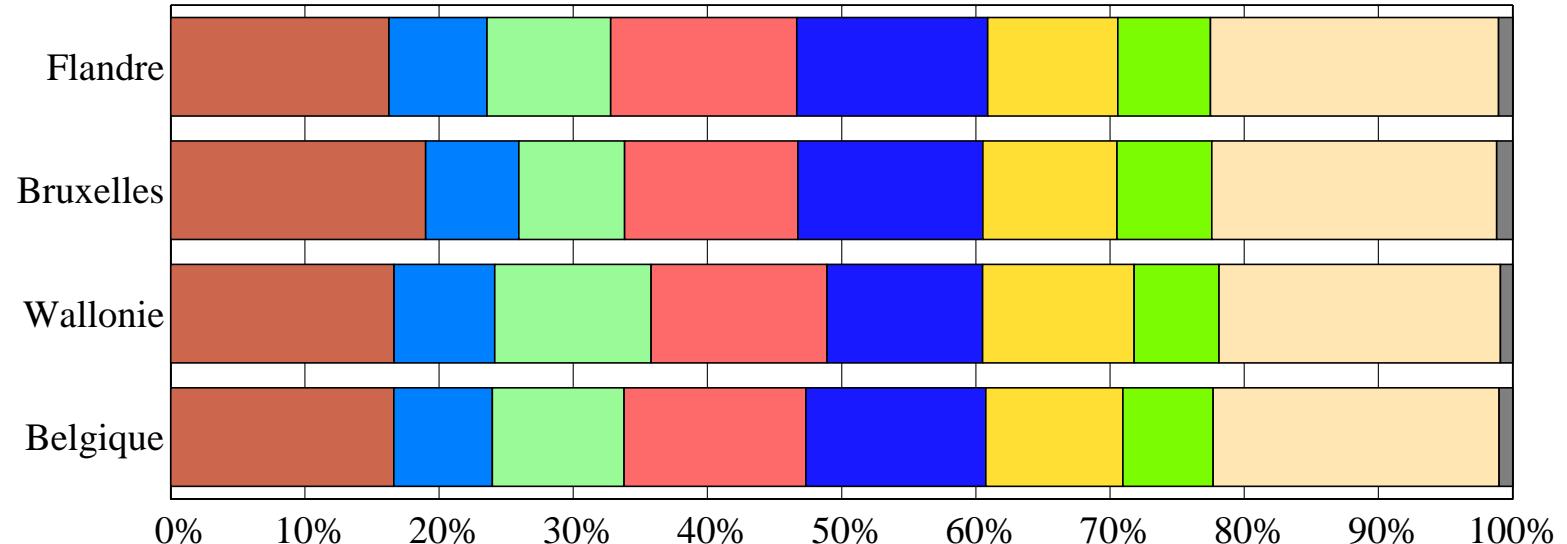


Distribution of time spent in different periods of the day
according to the seasons evening peak

- █ Morning peak █ Morning (off peak) █ Afternoon (off peak)
- █ Evening peak (start) █ Evening peak (end) █ Night

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 24

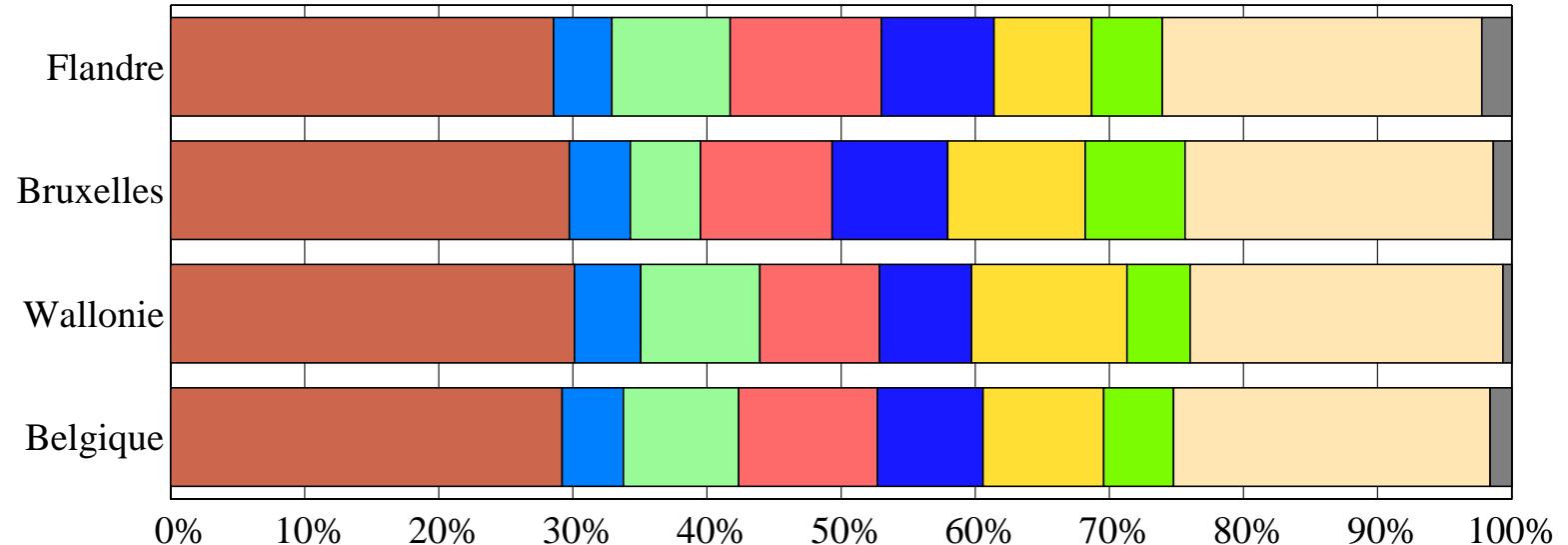
Trip purposes (1)



Distribution of the number of trips according to purpose
(working school day)

- Work, professional ■ School ■ Taxi
- Temporary return ■ Shopping, restaurant ■ Personal, visits
- Leisure, walk ■ Final return ■ Other

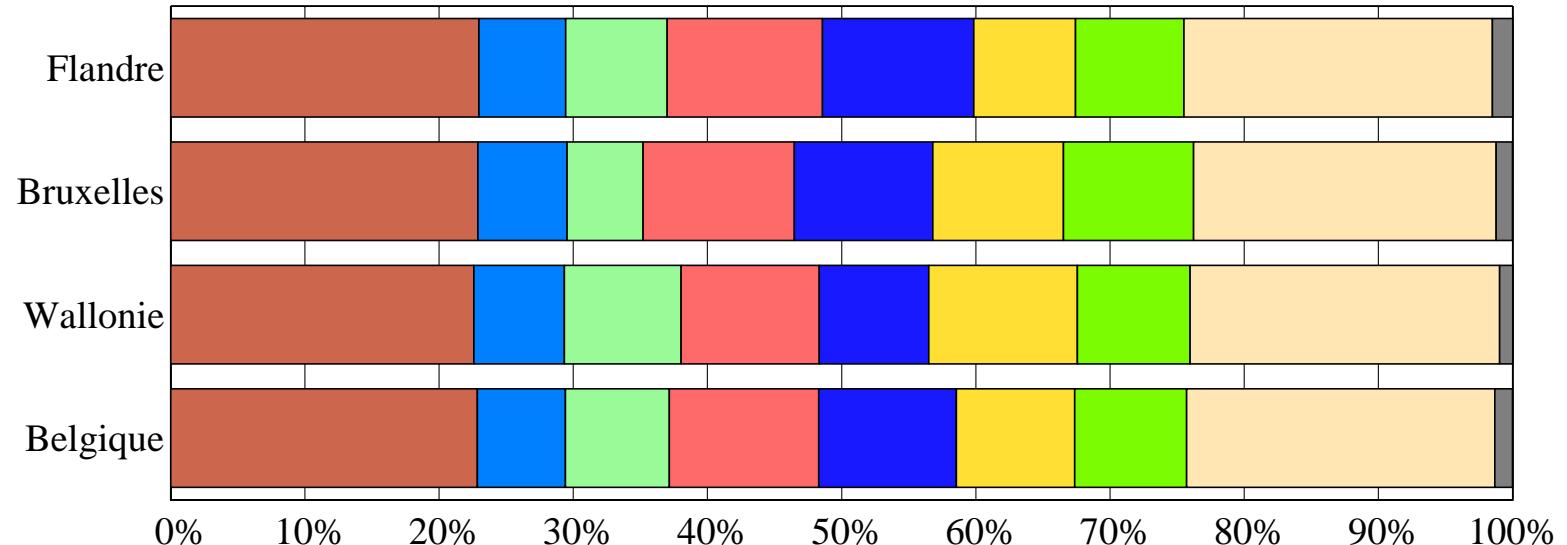
Trip purposes (2)



Distribution of trip distance according to purpose
(working school day)

- Work, professional ■ School ■ Taxi
- Temporary return ■ Shopping, restaurant ■ Personal, visits
- Leisure, walk ■ Final return ■ Other

Trip purposes (3)



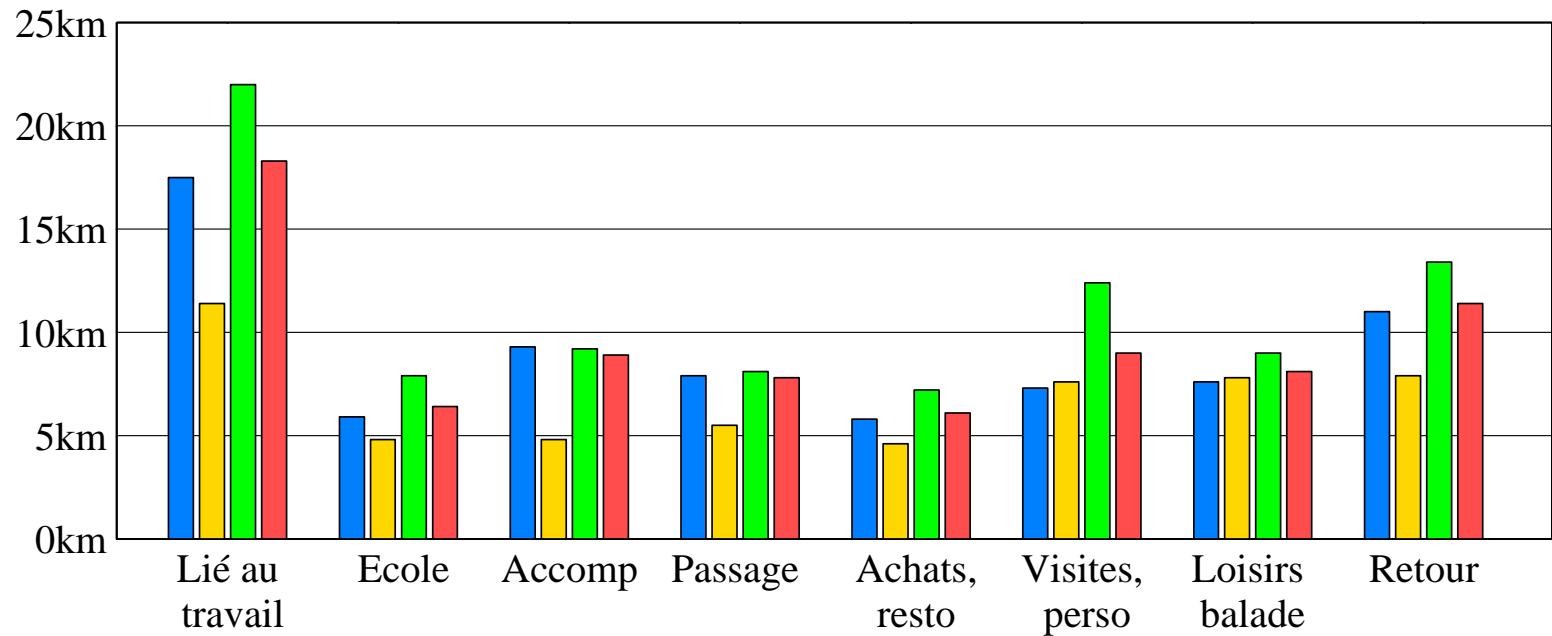
Distribution of trip duration according to purpose
(working school day)

- Work, professional ■ School ■ Taxi
- Temporary return ■ Shopping, restaurant ■ Personal, visits
- Leisure, walk ■ Final return ■ Other

Trip purposes (4)

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- **Trip purpose**
- Modal choice
- Conclusions



Average trip distance according to purpose
(working school day)

■ Flanders

■ Brussels

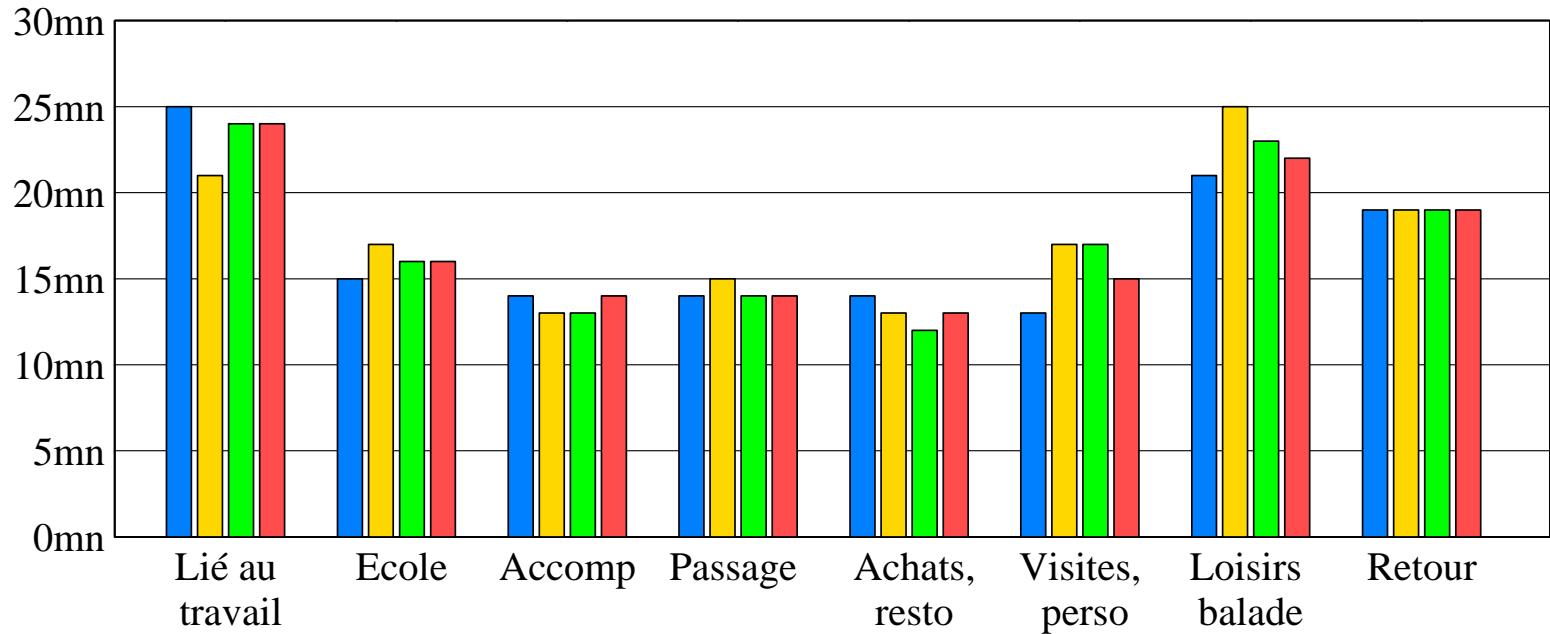
■ Wallonia

■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 28

Trip purposes (5)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - **Trip purpose**
 - Modal choice
 - Conclusions



Average trip duration according to purpose
(working school day)

■ Flanders

■ Brussels

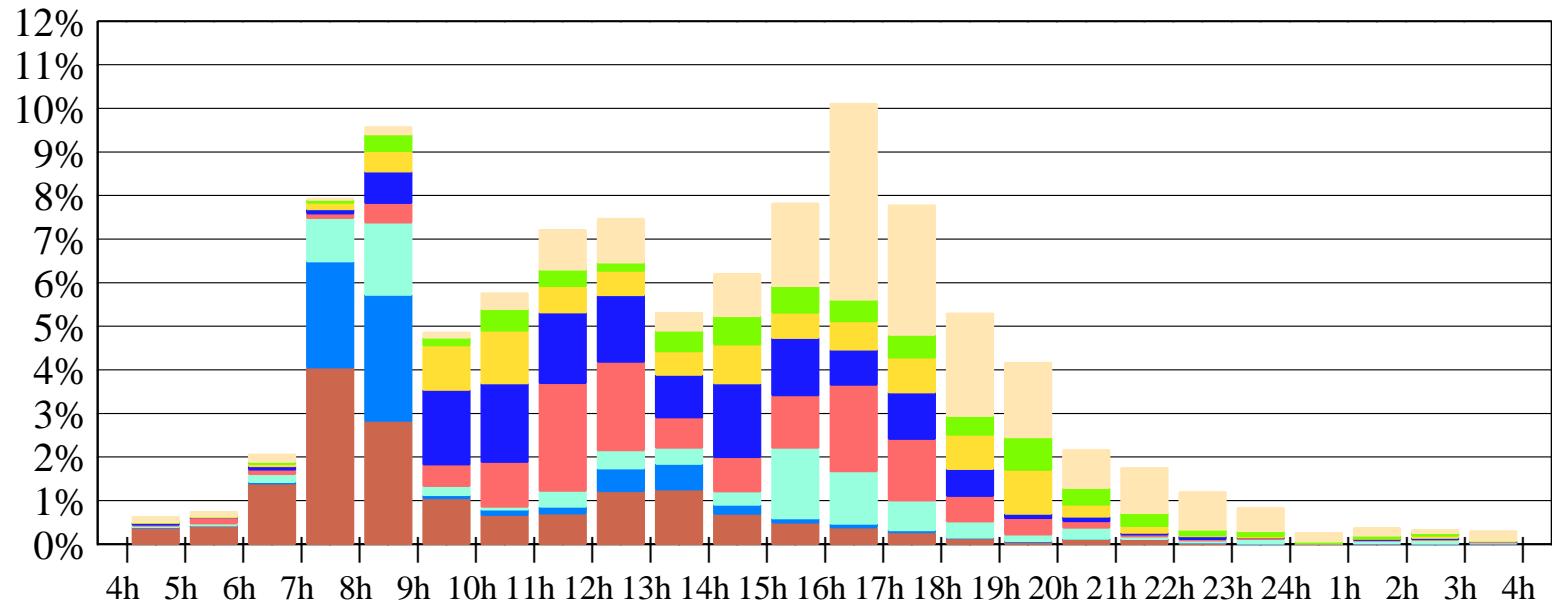
■ Wallonia

■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 29

Trip purposes in time (Flanders)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - **Trip purpose**
 - Modal choice
 - Conclusions



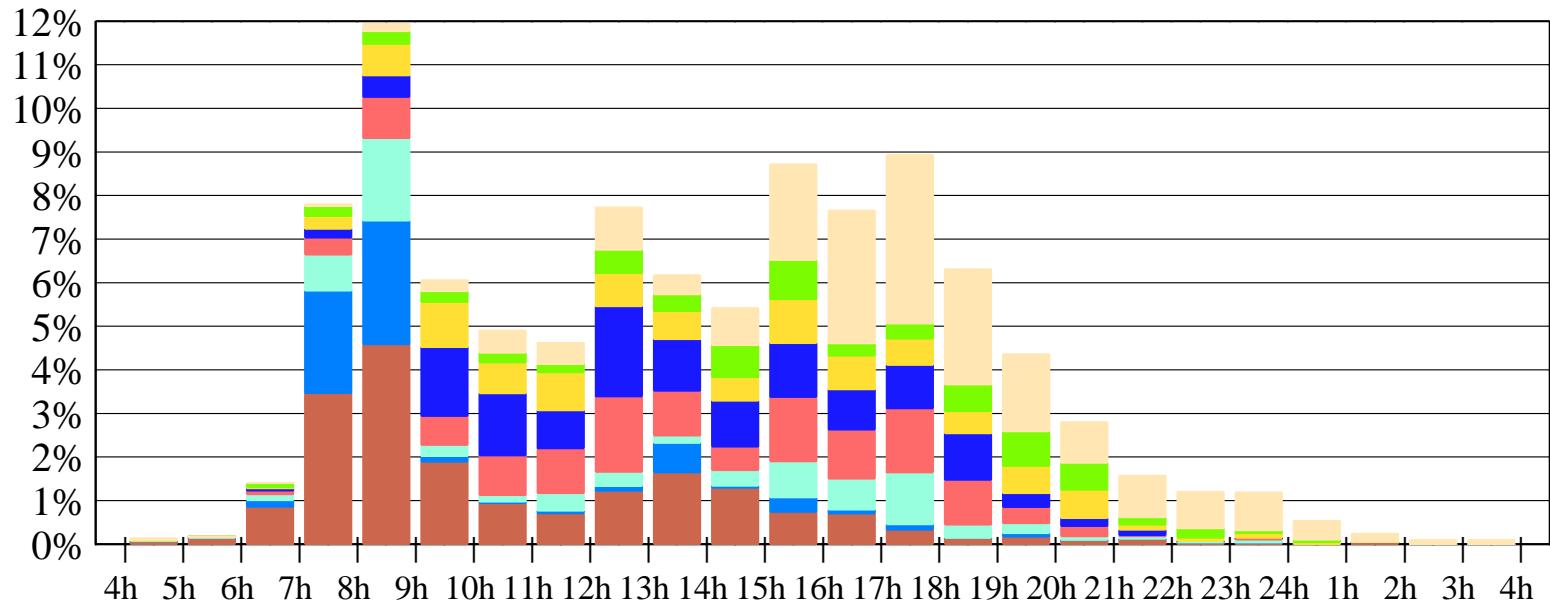
Distribution of trip purpose by departure time in Flanders

- | | | |
|----------------------|------------------------|--------------------|
| ■ Work, professional | ■ School | ■ Taxi |
| ■ Temporary return | ■ Shopping, restaurant | ■ Personal, visits |
| ■ Leisure, walk | ■ Final return | ■ Other |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P.U. Namur, 2002. 30

Trip purposes in time (Brussels)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - **Trip purpose**
 - Modal choice
 - Conclusions



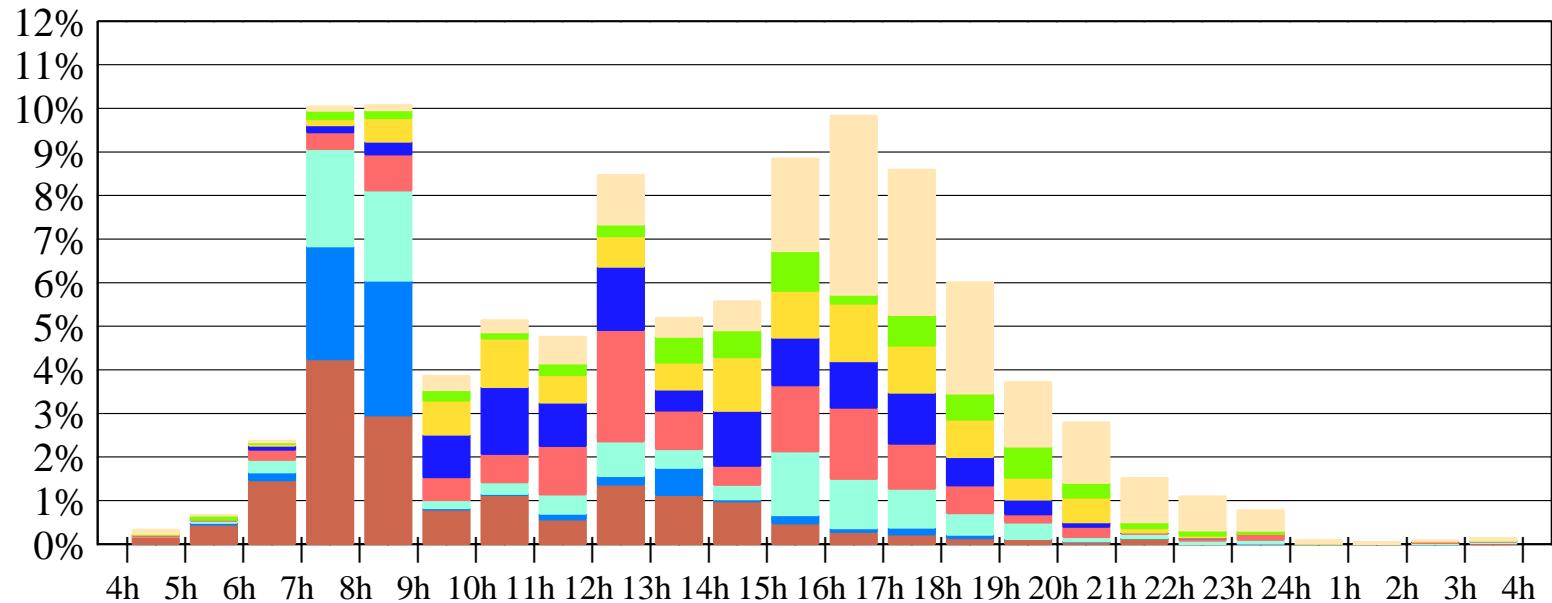
Distribution of trip purpose by departure time in Brussels

- | | | |
|----------------------|------------------------|--------------------|
| ■ Work, professional | ■ School | ■ Taxi |
| ■ Temporary return | ■ Shopping, restaurant | ■ Personal, visits |
| ■ Leisure, walk | ■ Final return | ■ Other |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P.U. Namur, 2002. 31

Trip purposes in time (Wallonia)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - **Trip purpose**
 - Modal choice
 - Conclusions



Distribution of trip purpose by departure time in Wallonia

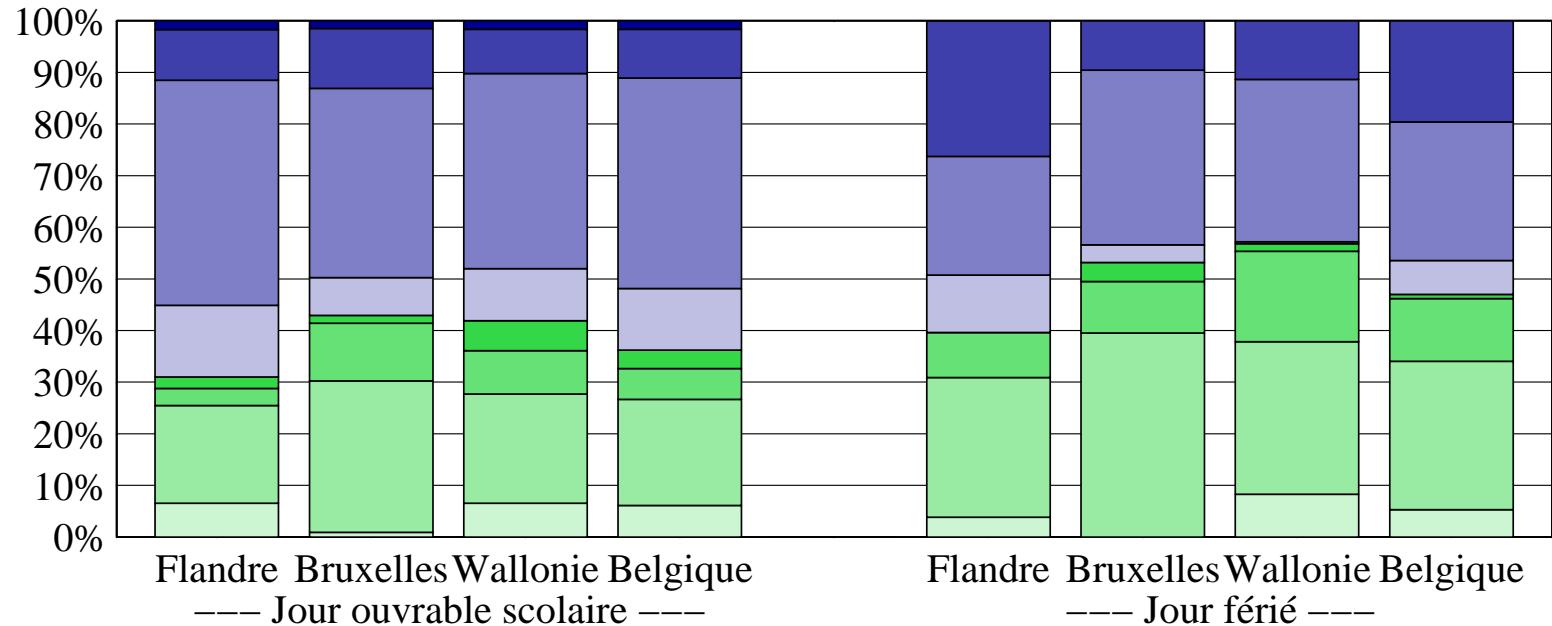
- | | | |
|----------------------|------------------------|--------------------|
| ■ Work, professional | ■ School | ■ Taxi |
| ■ Temporary return | ■ Shopping, restaurant | ■ Personal, visits |
| ■ Leisure, walk | ■ Final return | ■ Other |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P.U. Namur, 2002. 32

Who drives whom?

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- **Trip purpose**
- Modal choice
- Conclusions



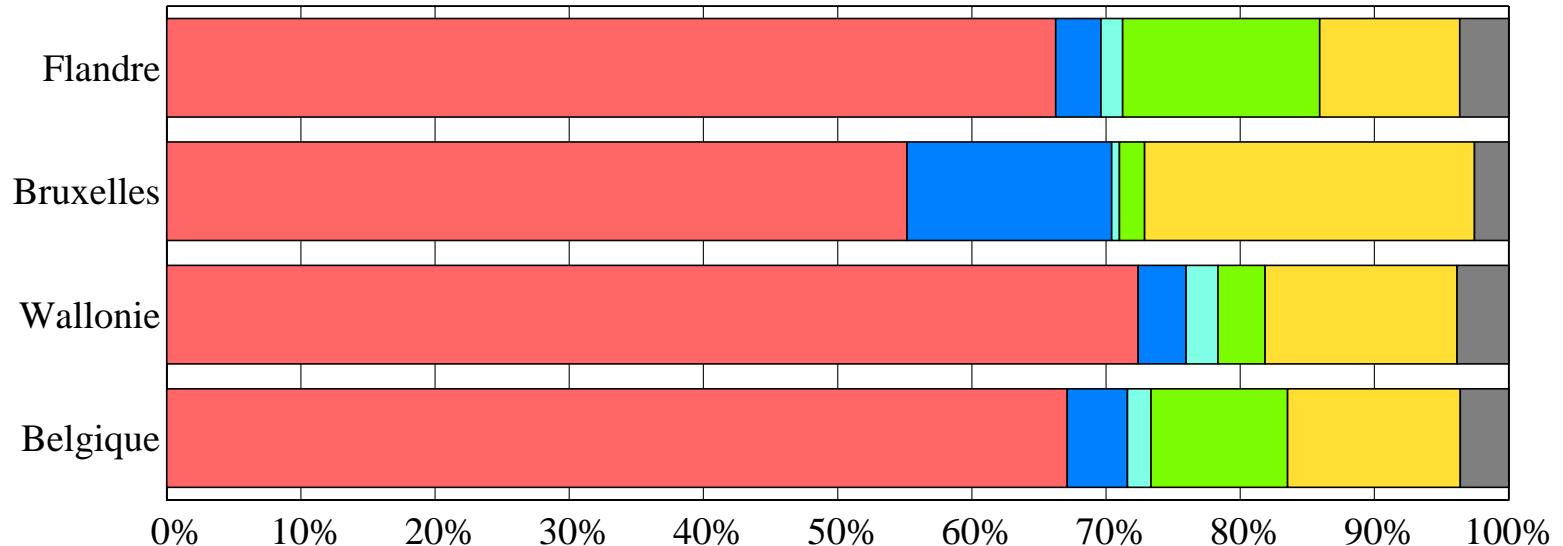
**Distribution of age and sex of accompanying persons
according to day type**

 F < 25	 F 25–44	 F 45–64	 F ≥ 65
 M < 25	 M 25–44	 M 45–64	 M ≥ 65

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 33

Modal choice (1)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions

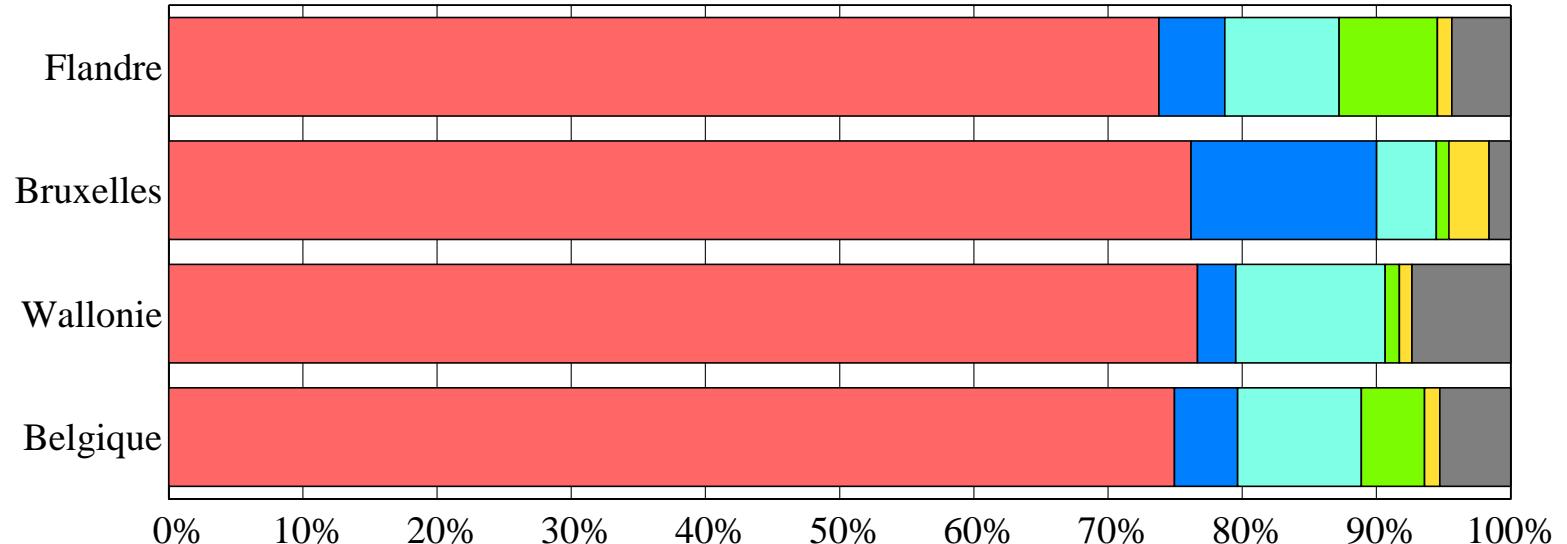


Distribution of the number if trips according to mode
(working school day)

- Car
- Public transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 34

Modal choice (2)



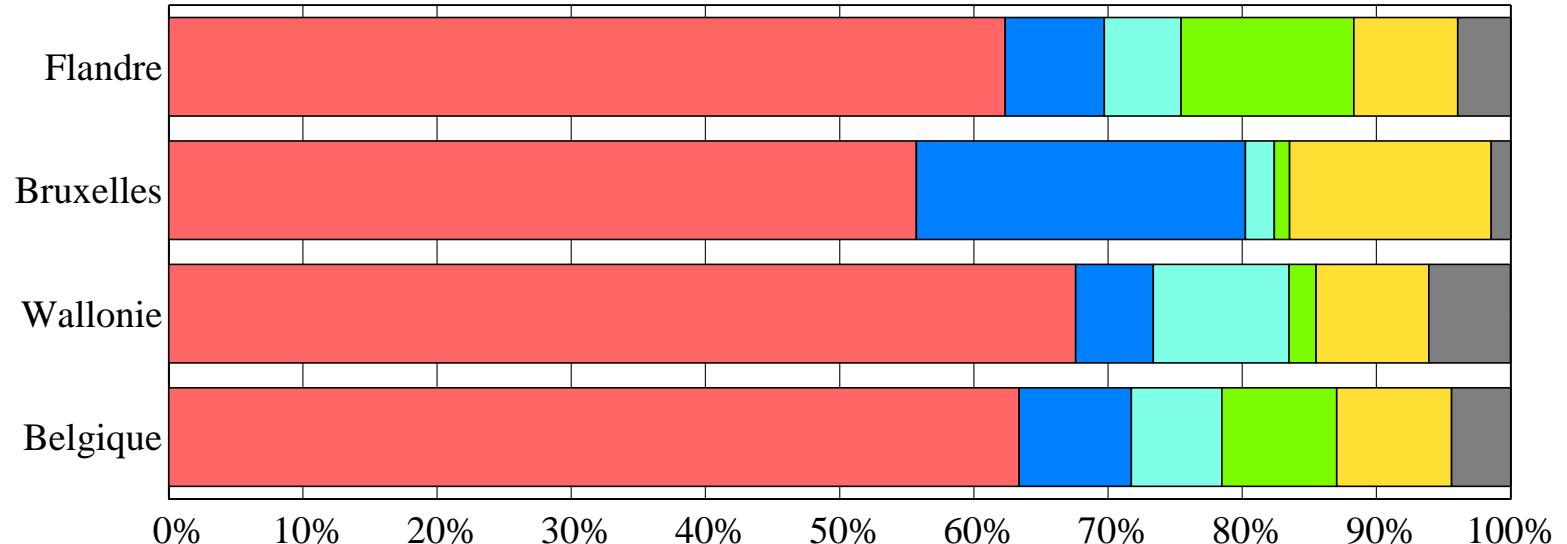
Distribution of trip distances according to mode
(working school day)

■ Car	■ Public transports	■ Train
■ Two wheels	■ Walk	■ Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 35

Modal choice (3)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



Distribution of trip durations according to mode
(working school day)

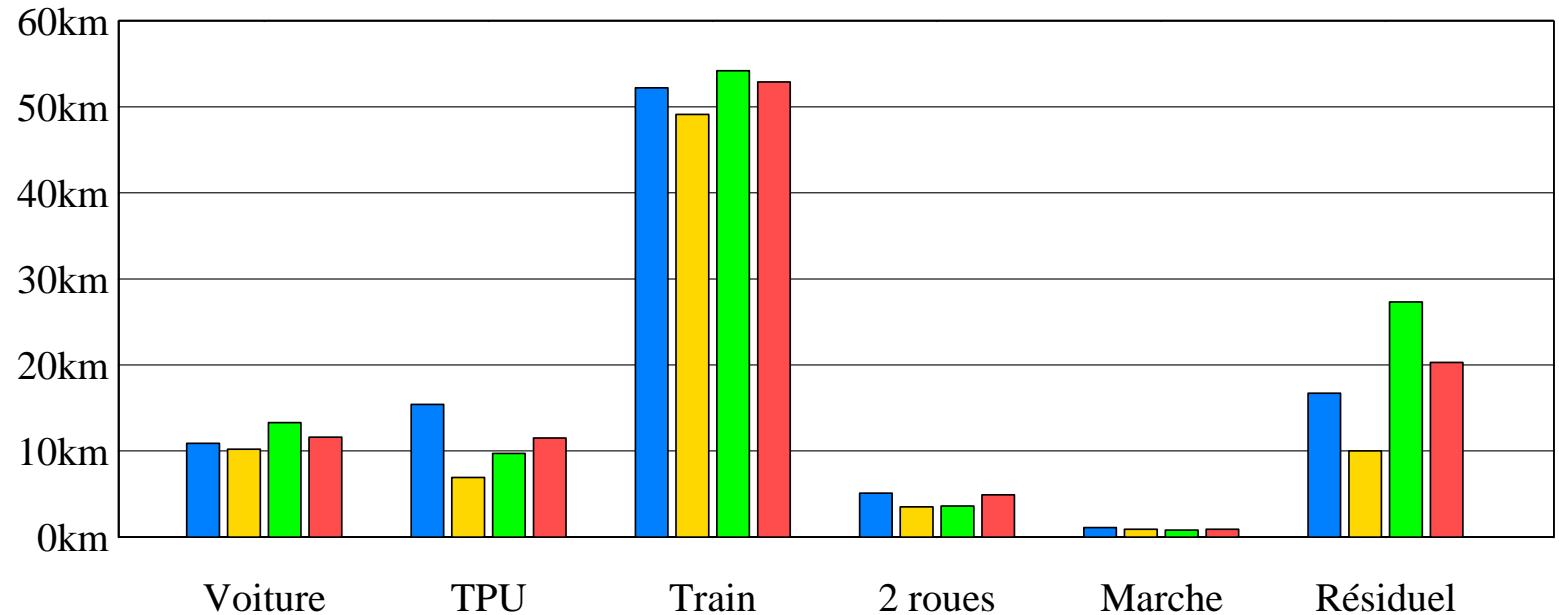
- Car
- Public transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Modal choice (4)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



Average trip distance according to mode
(working school day)

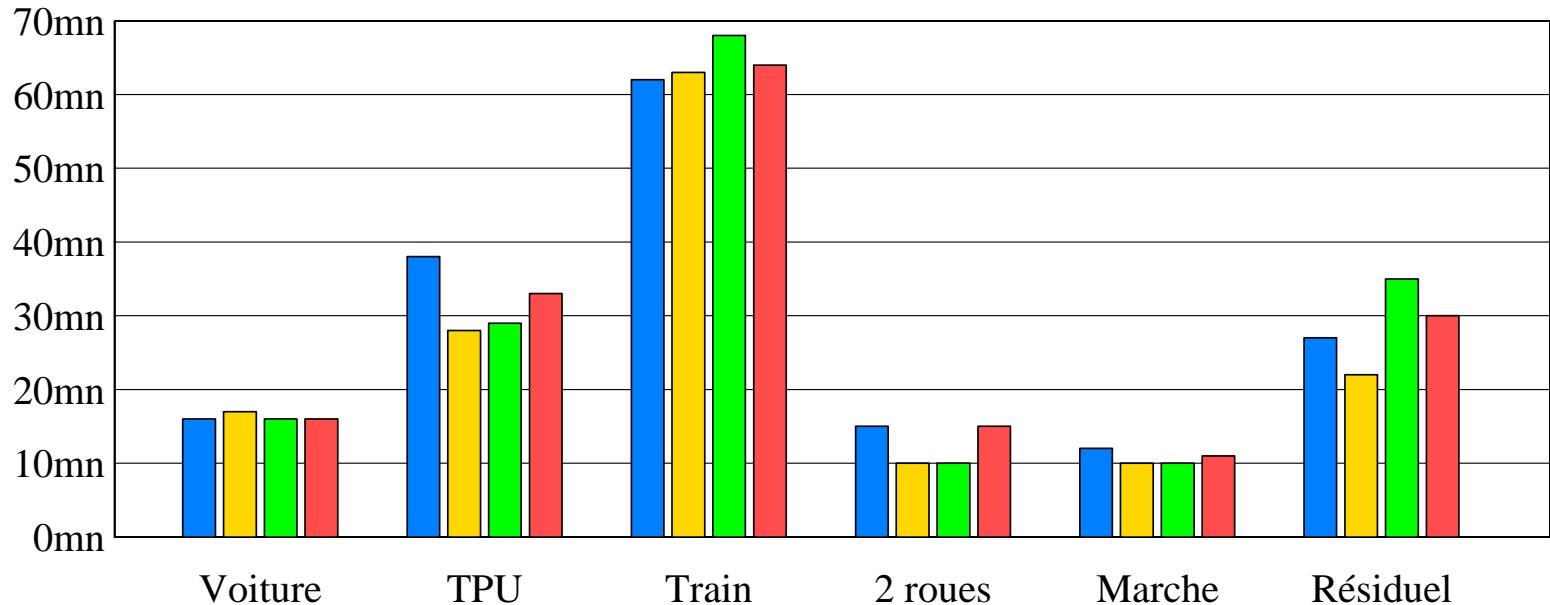
■ Flanders ■ Brussels ■ Wallonia ■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 37

Modal choice (5)

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- Trip purpose
- **Modal choice**
- Conclusions



Average trip duration according to mode
(working school day)

■ Flanders

■ Brussels

■ Wallonia

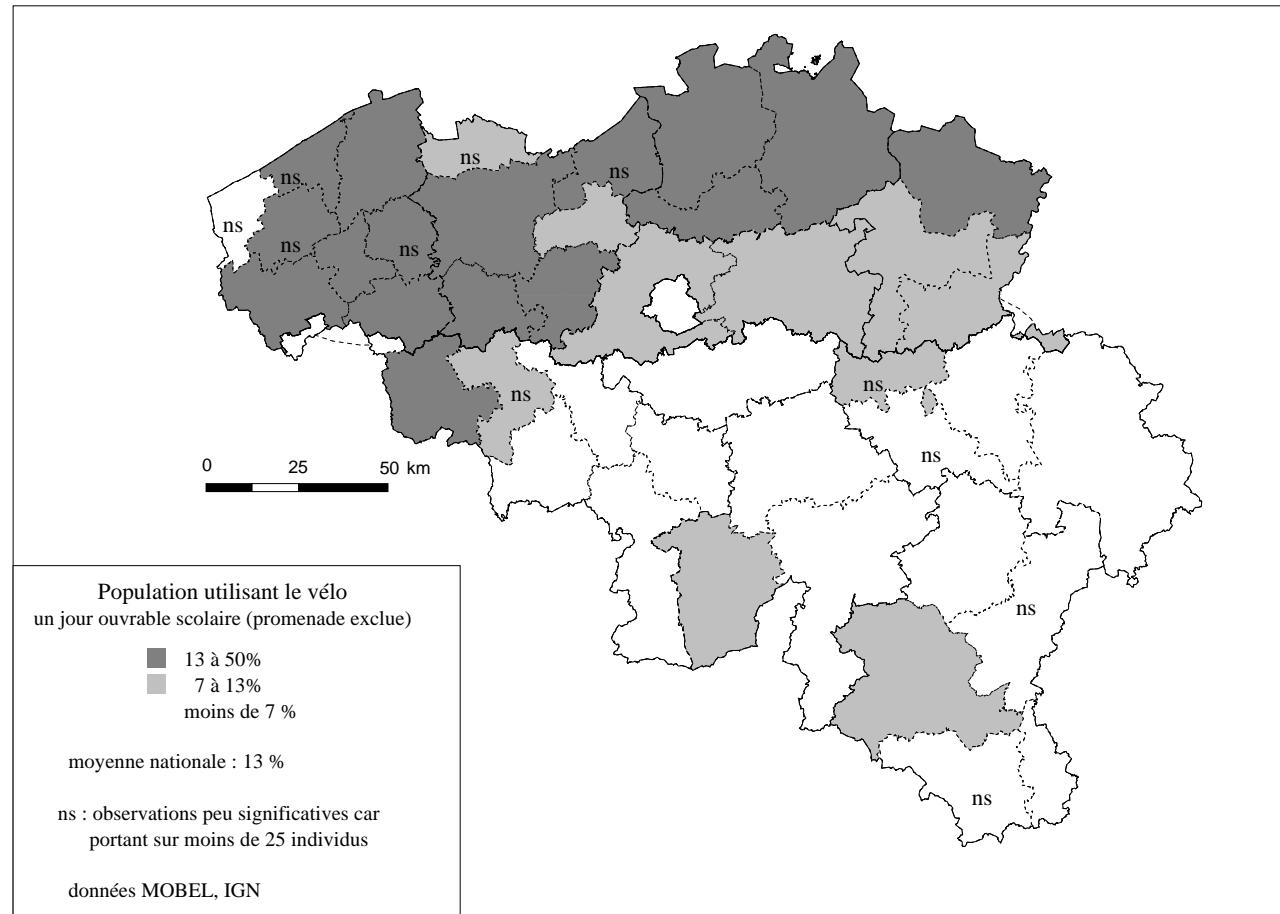
■ Belgium

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 38

Cycling is mostly in Flanders

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- Trip purpose
- **Modal choice**
- Conclusions



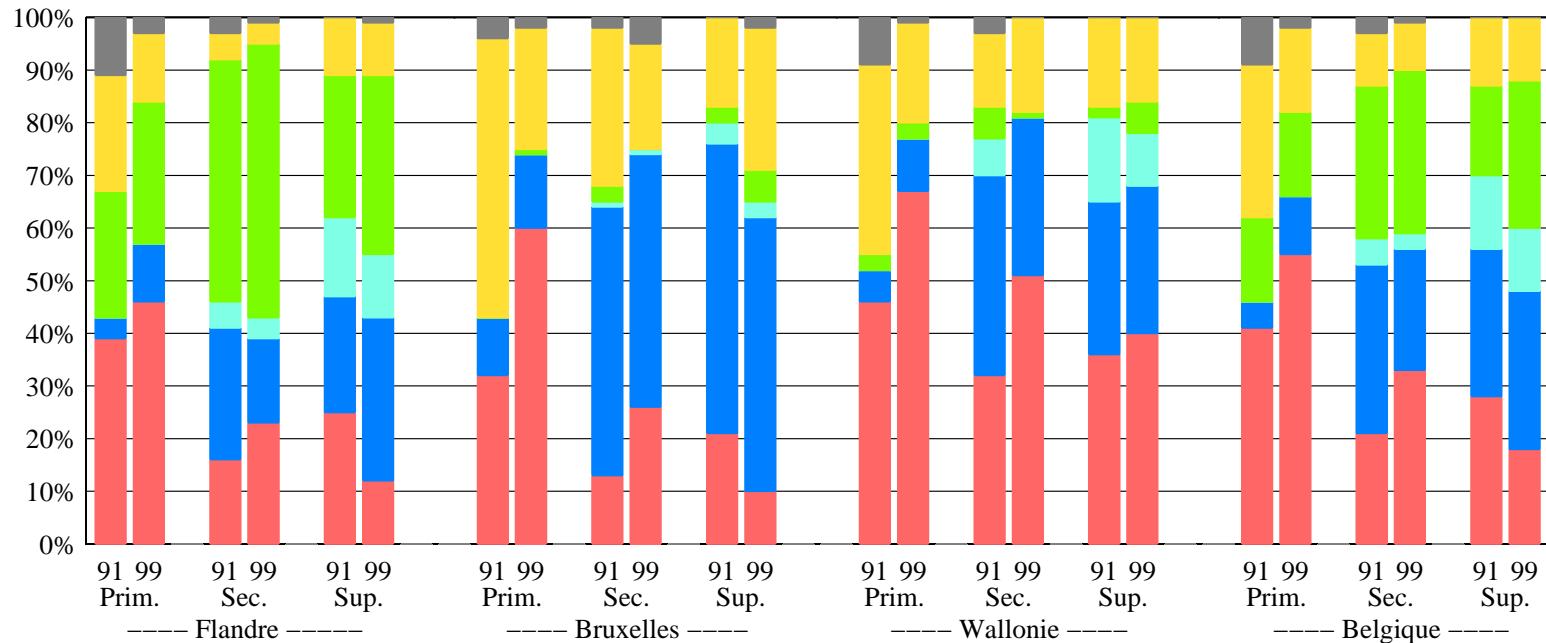
Proportion of individuals cycling, per district

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 39

Transport mode to school

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- Trip purpose
- **Modal choice**
- Conclusions

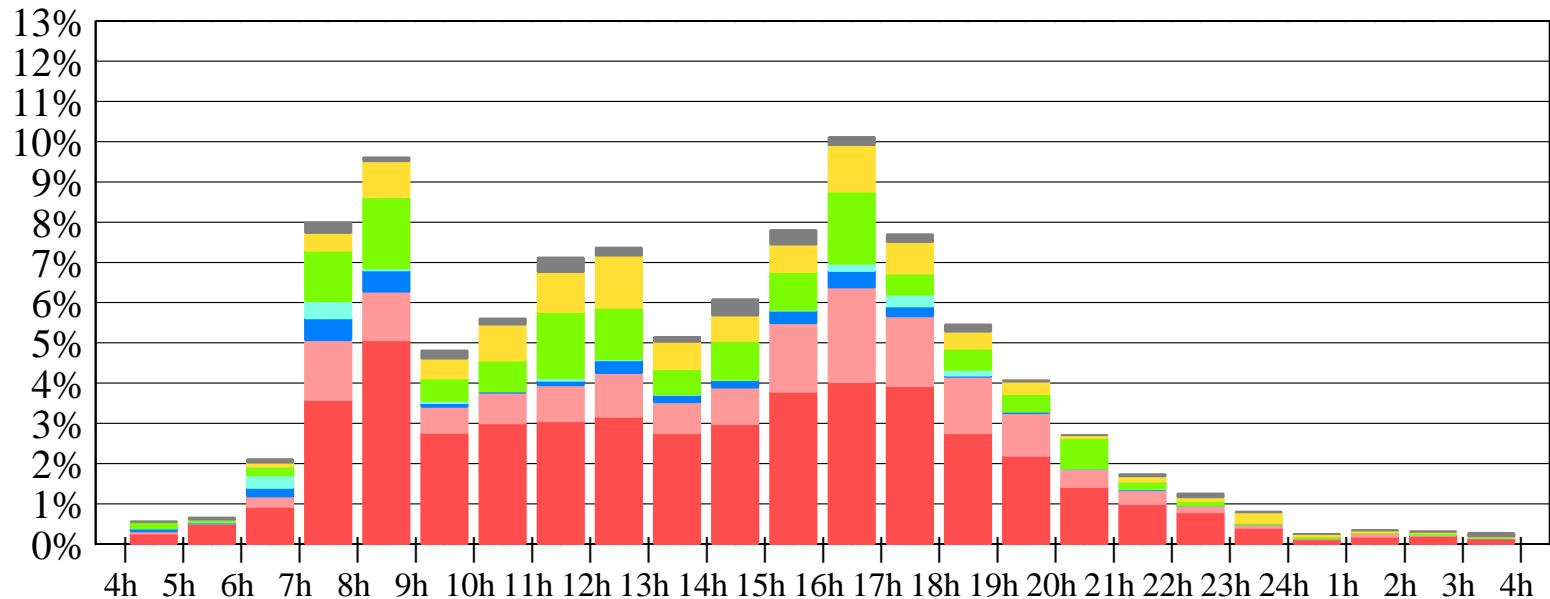


Evolution of the mode of transport to school between 1991 and 1999

- | | | |
|---|---|--|
| ■ Car | ■ Public transports | ■ Train |
| ■ Two wheels | ■ Walk | ■ Other |

Modal choice in time (Flanders)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



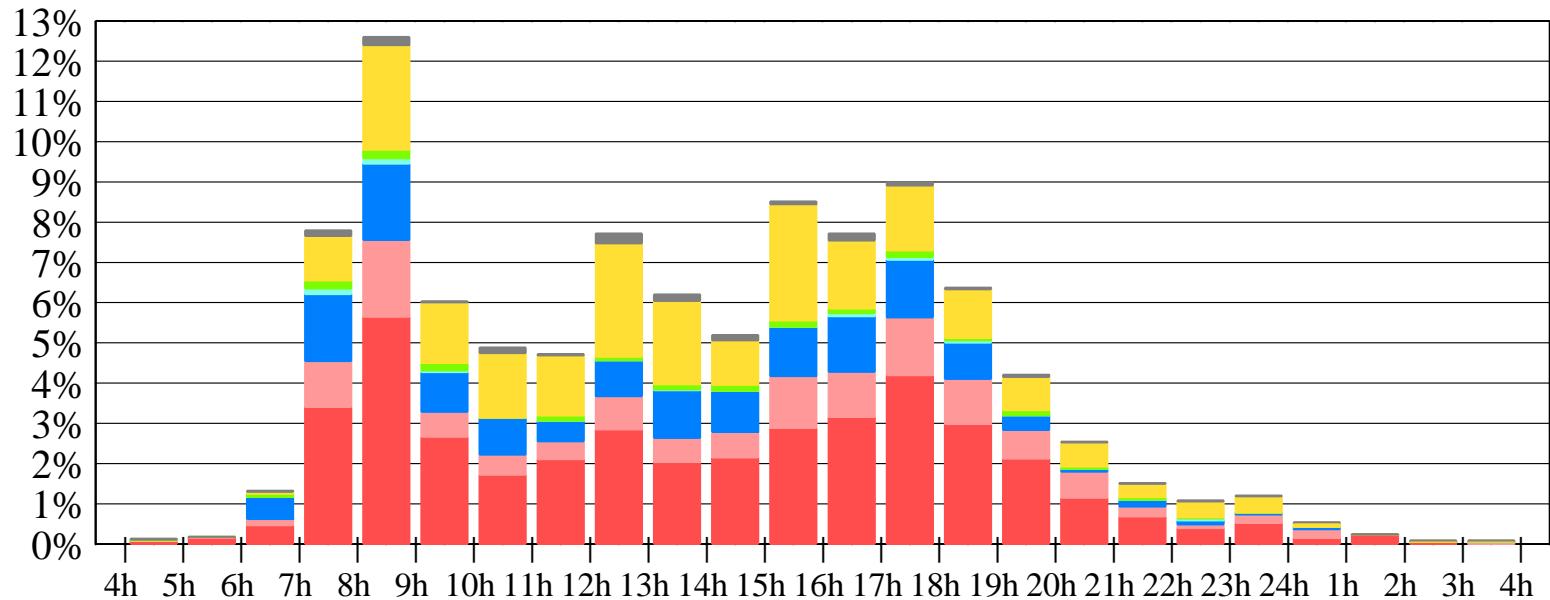
Distribution of mode choice by departure time in Flanders

- Car
- Public transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 41

Modal choice in time (Brussels)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



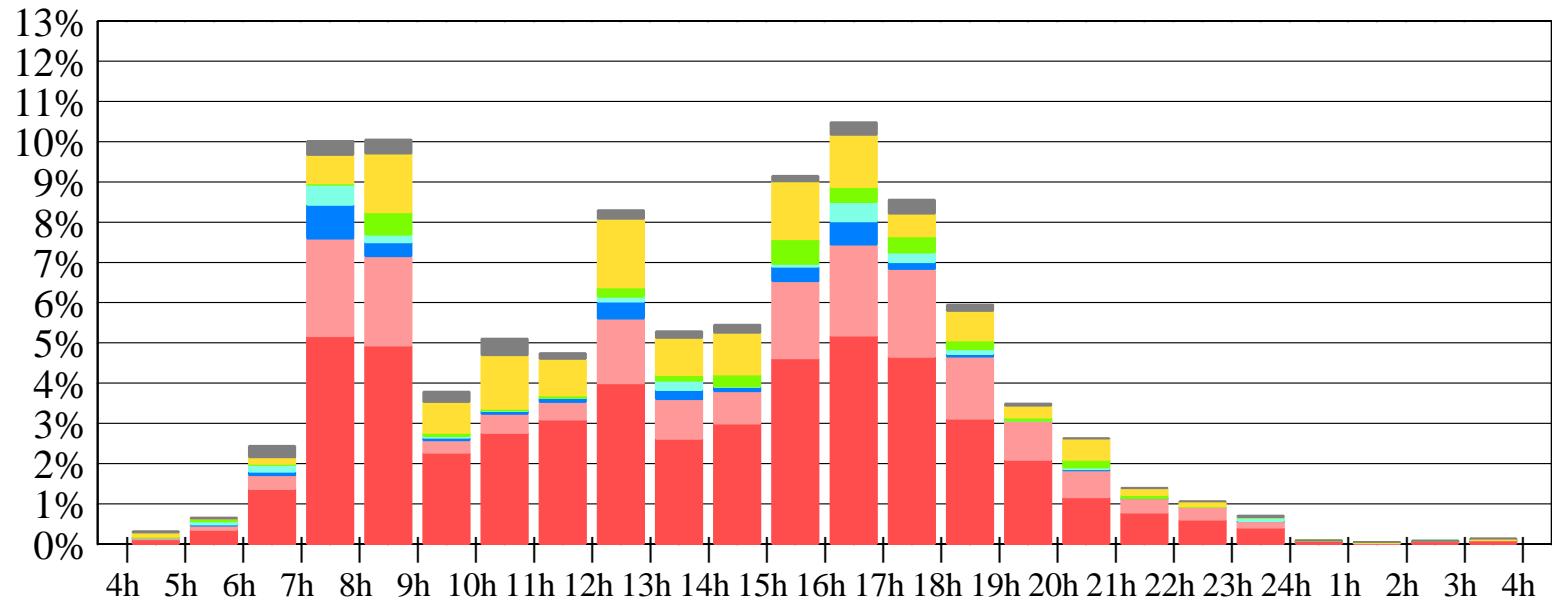
Distribution of mode choice by departure time in Brussels

- Car
- Public transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 42

Modal choice in time (Wallonia)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



Distribution of mode choice by departure time in Wallonia

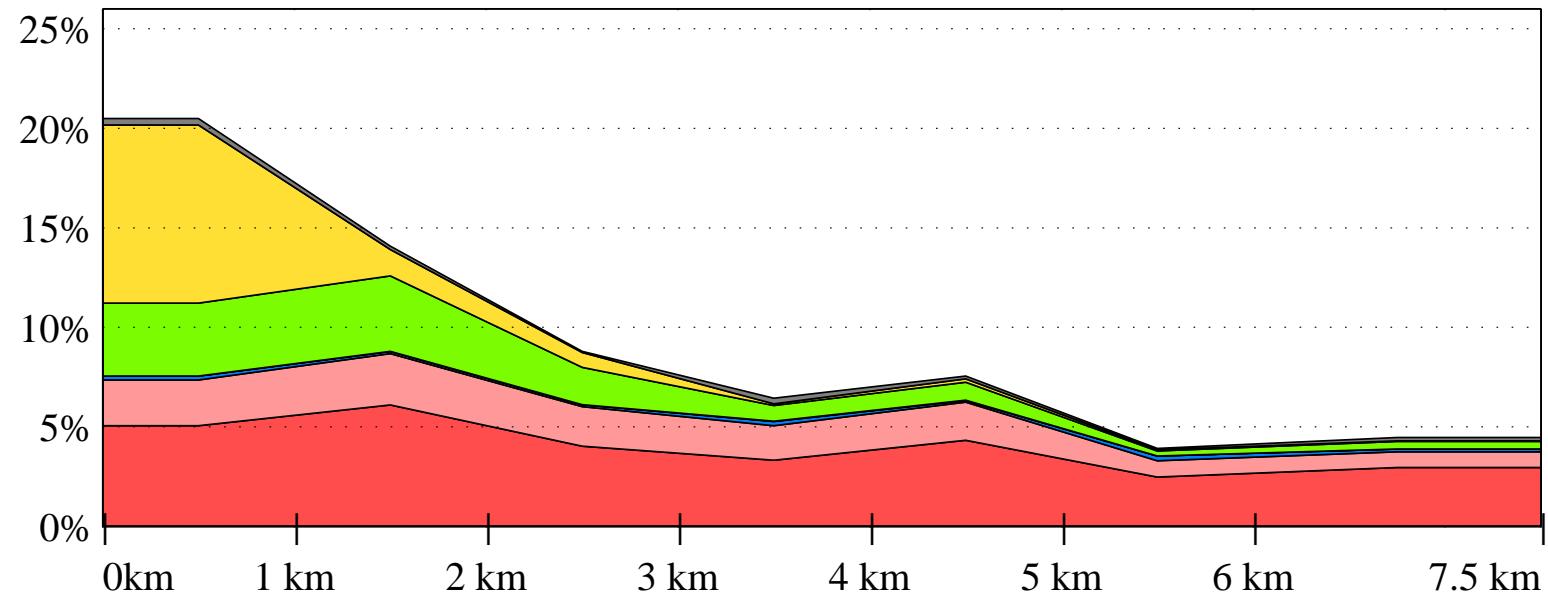
- | | | |
|--------------|---------------------|---------|
| ■ Car | ■ Public transports | ■ Train |
| ■ Two wheels | ■ Walk | ■ Other |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 43

Modal choice for short trips (Flanders)

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- Trip purpose
- **Modal choice**
- Conclusions



Distribution of mode choice for short trips in Flanders

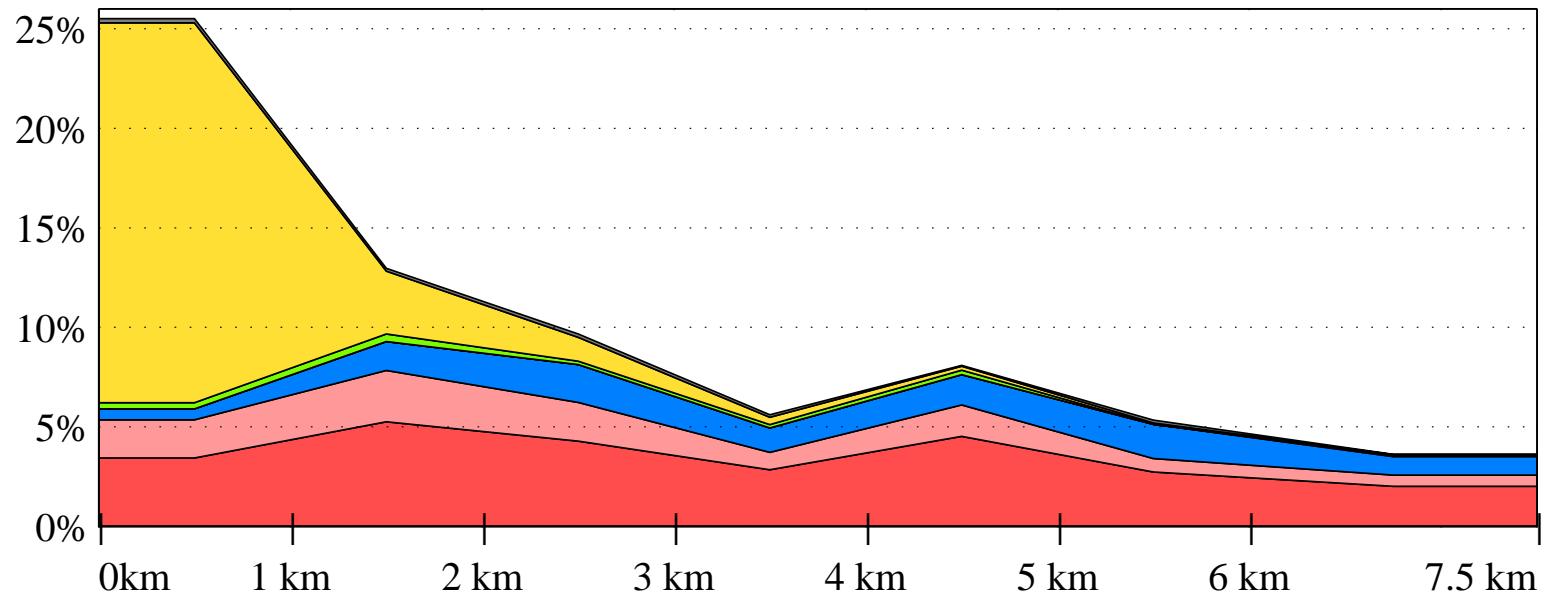
- | | | |
|---|--|---|
| ■ Car (driver) | ■ Car (passenger) | ■ Public Transports |
| ■ Two wheels | ■ Walk | ■ Other |

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 44

Modal choice for short trips (Brussels)

Outline

- Introduction
- The households
- Socio-spatial aspects
- Temporality
- Trip purpose
- **Modal choice**
- Conclusions



Distribution of mode choice for short trips in Brussels

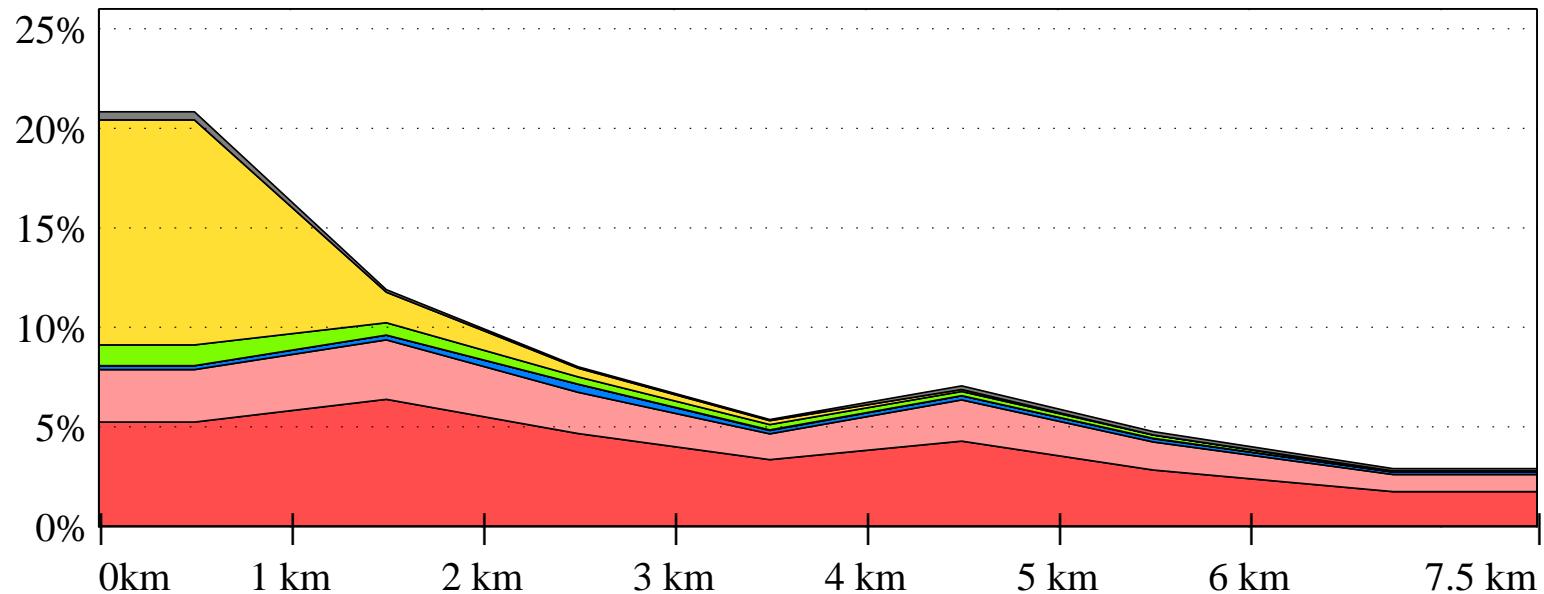
- Car (driver)
- Car (passenger)
- Public Transports
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Modal choice for short trips (Wallonia)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



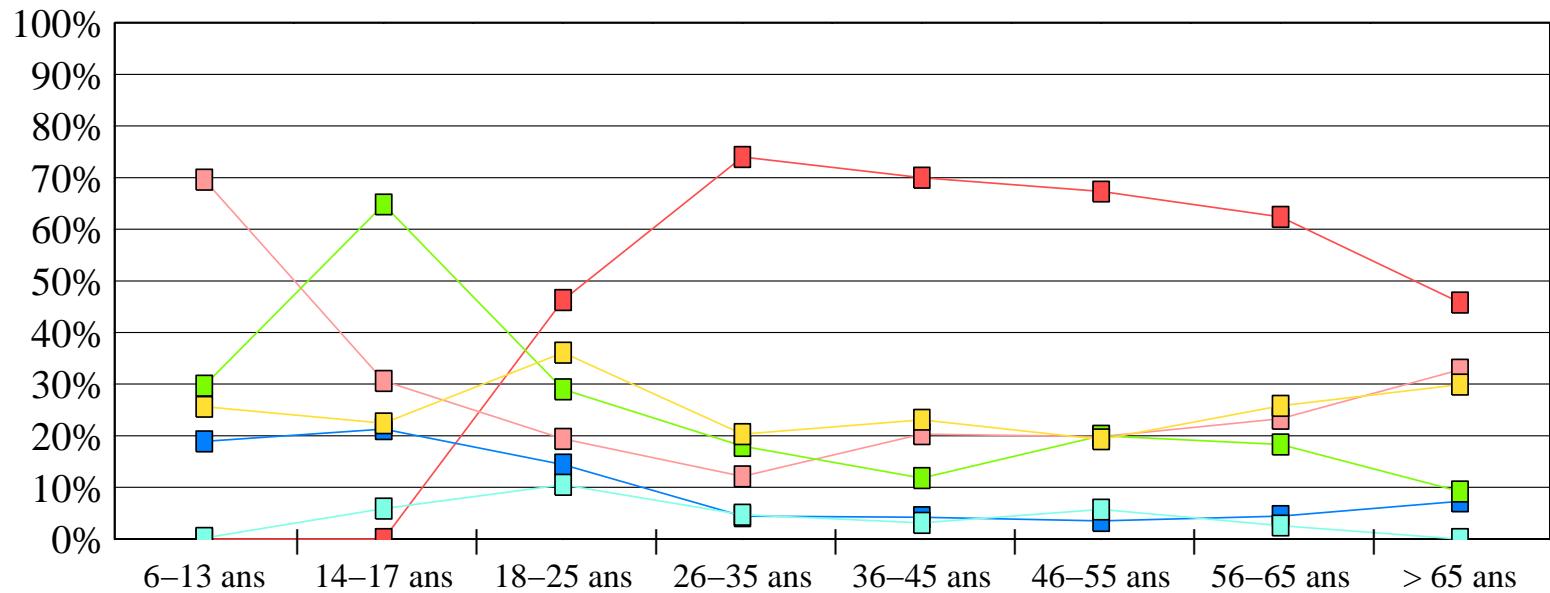
Distribution of mode choice for short trips in Wallonia

- Car (driver) ■ Car (passenger) ■ Public Transports
- Two wheels ■ Walk ■ Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 46

Modal choice and age (Flanders)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



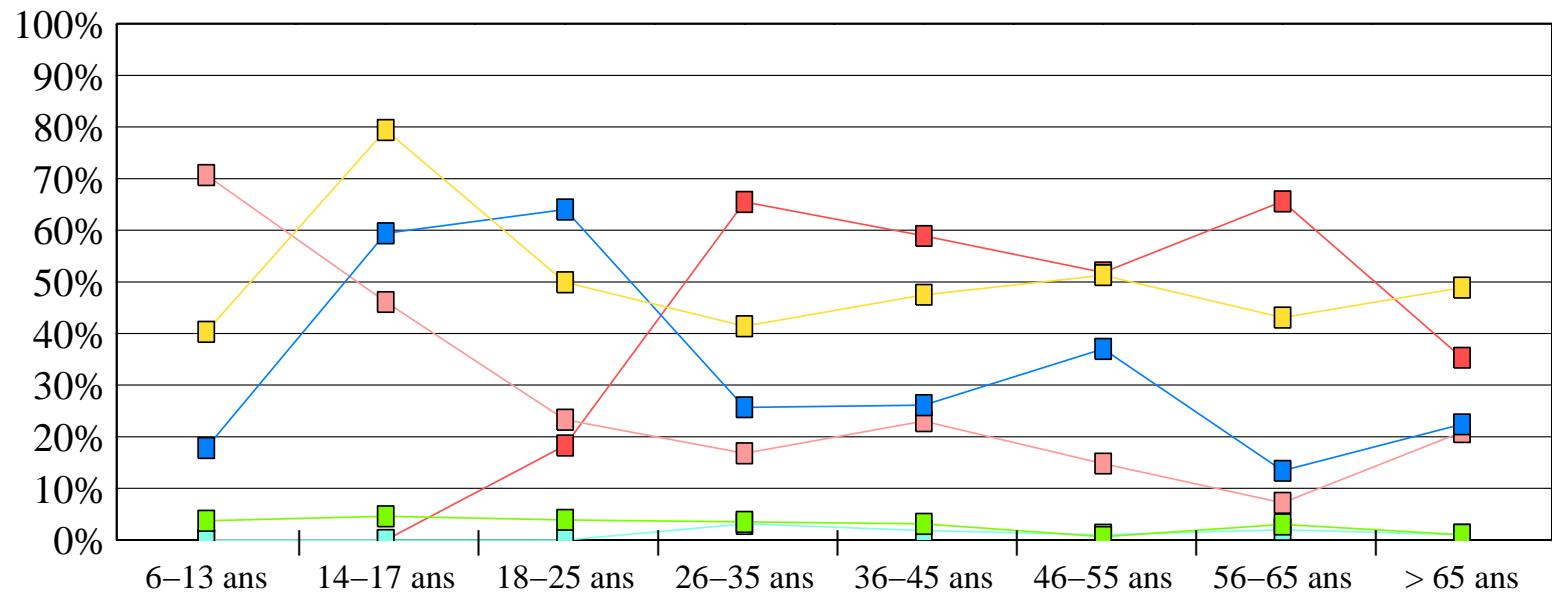
Distribution of mode choice according to age in Flanders

- Car (driver)
- Car (passenger)
- Public Transports
- Train
- Two wheels
- Walk

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 47

Modal choice and age (Brussels)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



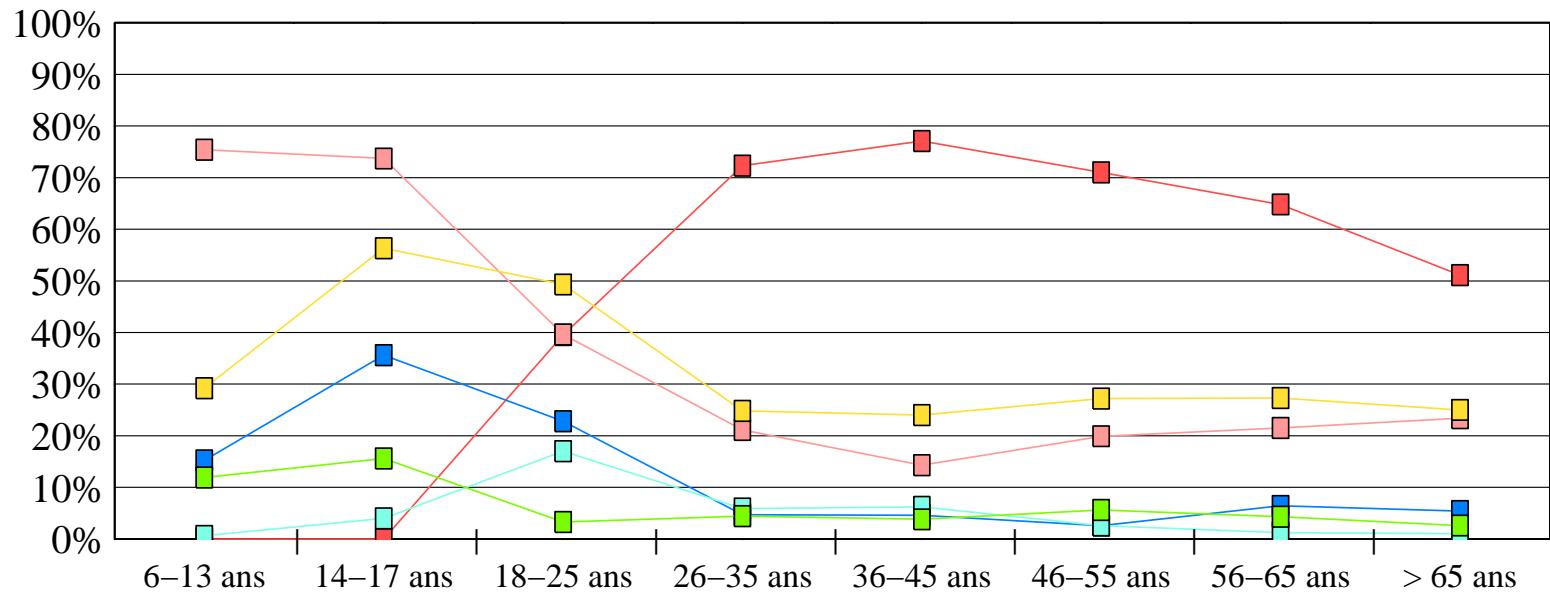
Distribution of mode choice according to age in Brussels

- Car (driver)
- Car (passenger)
- Public Transports
- Train
- Two wheels
- Walk

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 48

Modal choice and age (Wallonia)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



Distribution of mode choice according to age in Wallonia

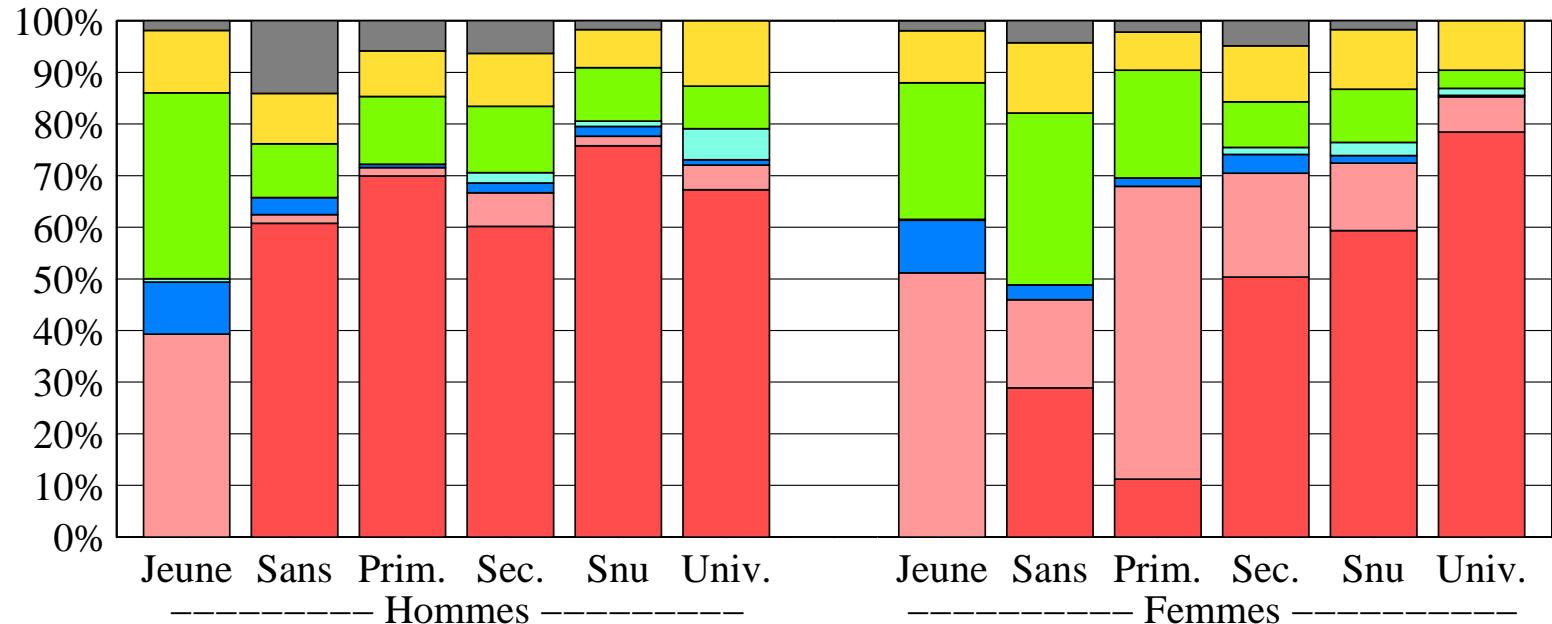
- Car (driver)
- Car (passenger)
- Public Transports
- Train
- Two wheels
- Walk

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.

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Modal choice and formal education (Flanders)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



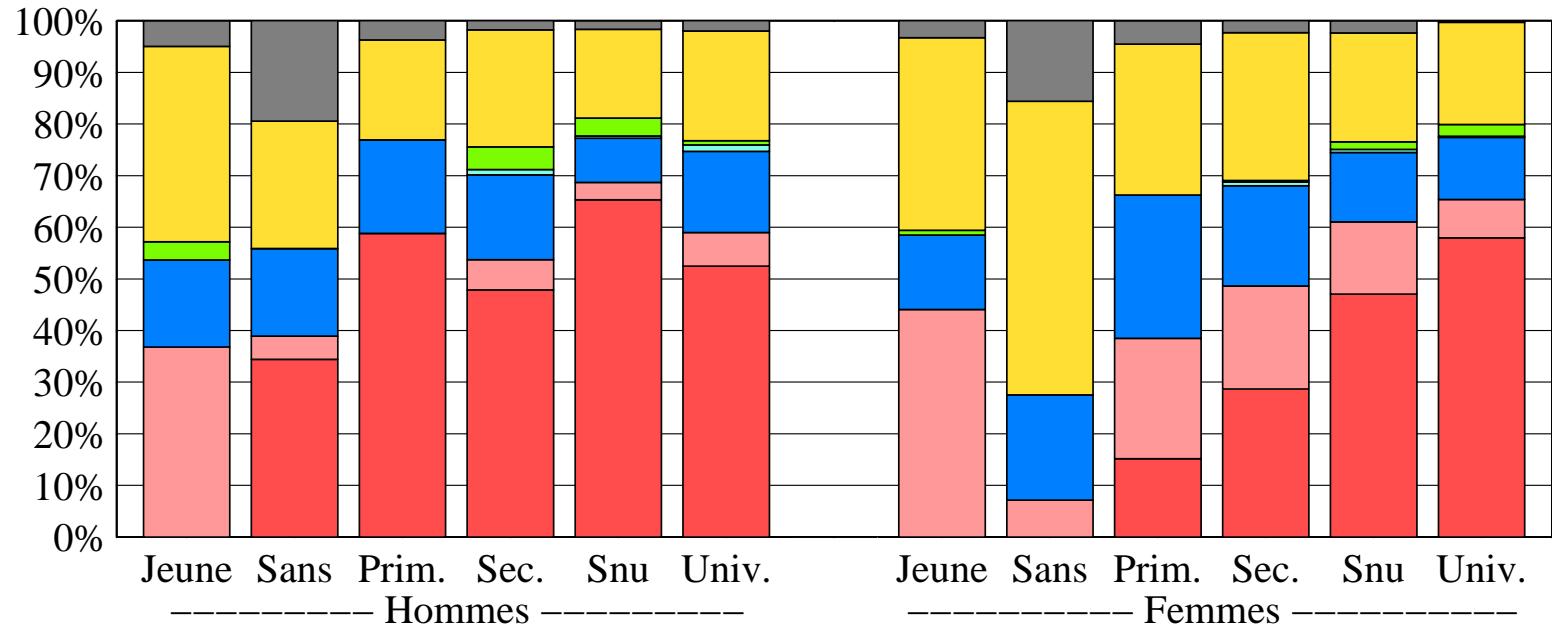
Distribution of mode choice according to school degree in Flanders

- Car (driver)
- Car (passenger)
- Public Transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 50

Modal choice and formal education (Brussels)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



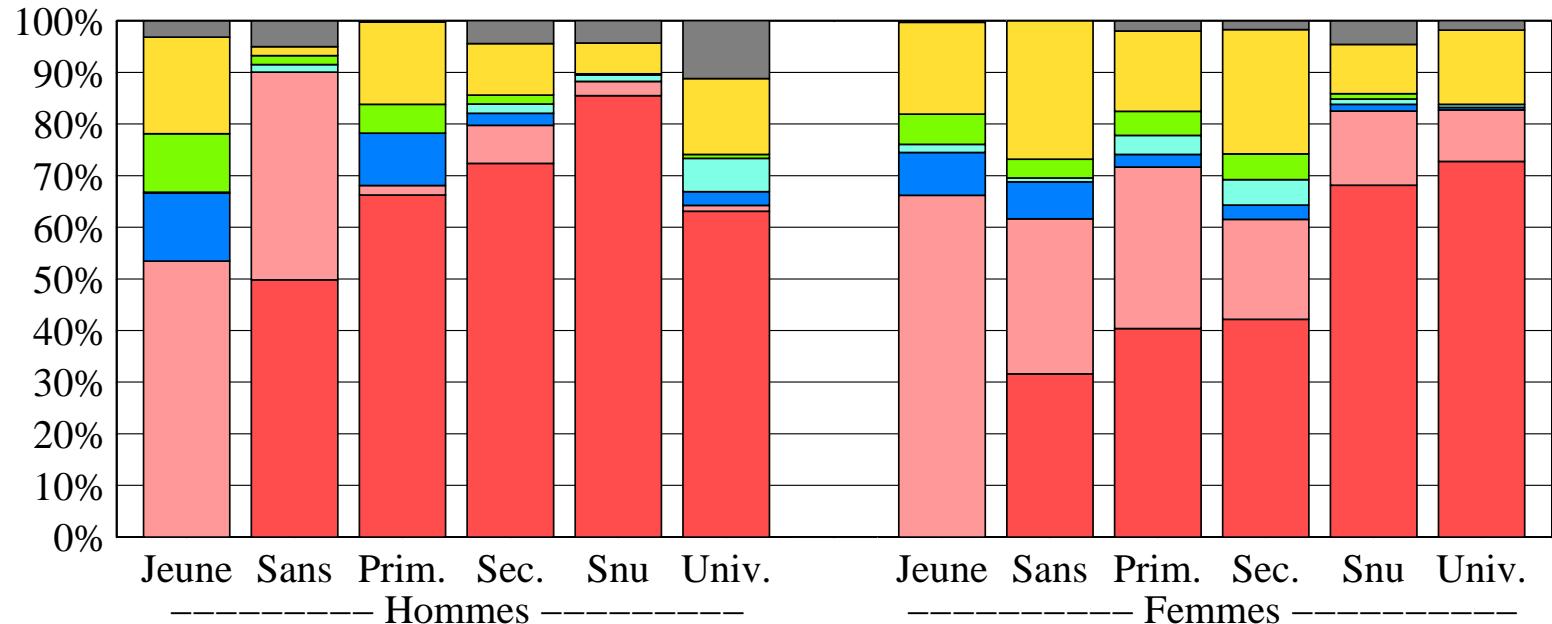
Distribution of mode choice according to school degree in Brussels

- Car (driver) ■ Car (passenger) ■ Public Transports ■ Train
- Two wheels ■ Walk ■ Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 51

Modal choice and formal education (Wallonia)

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



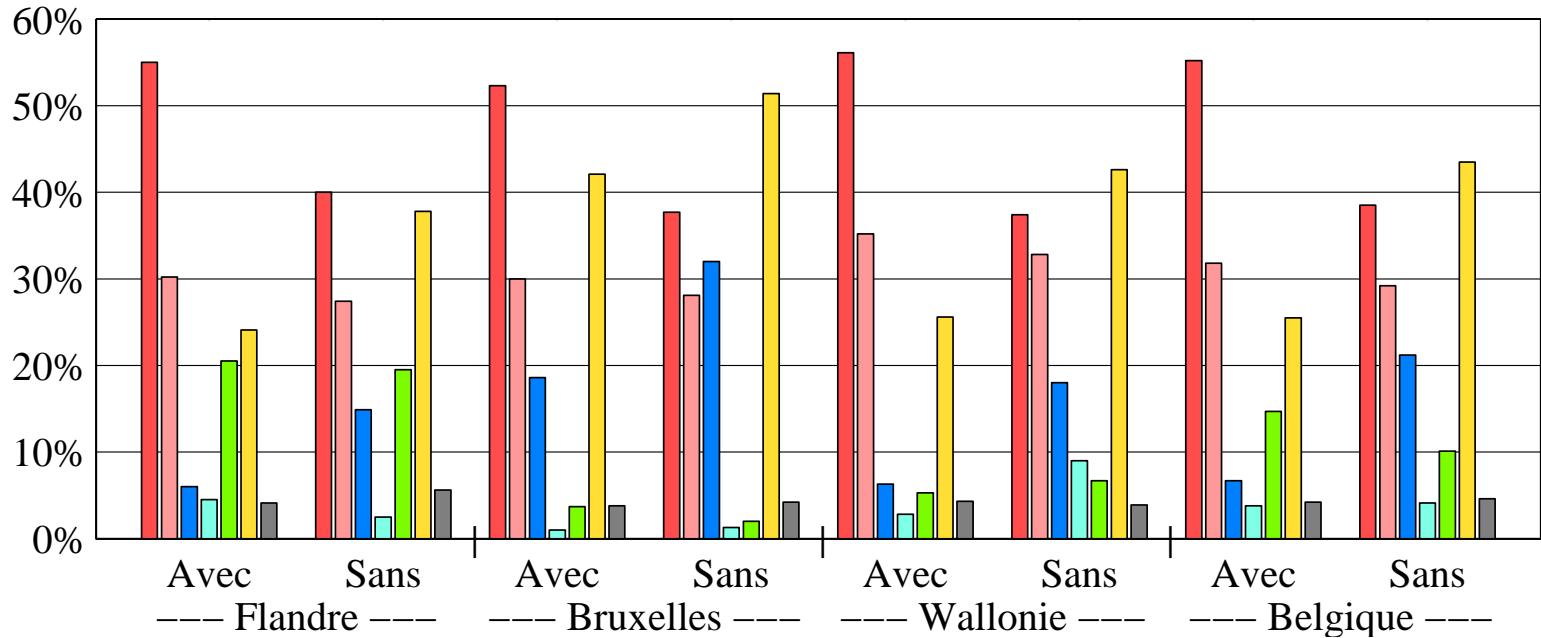
Distribution of mode choice according to school degree
in Wallonia

- Car (driver) ■ Car (passenger) ■ Public Transports ■ Train
- Two wheels ■ Walk ■ Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002. 52

Modal choice and garage ownership

- Outline**
- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions

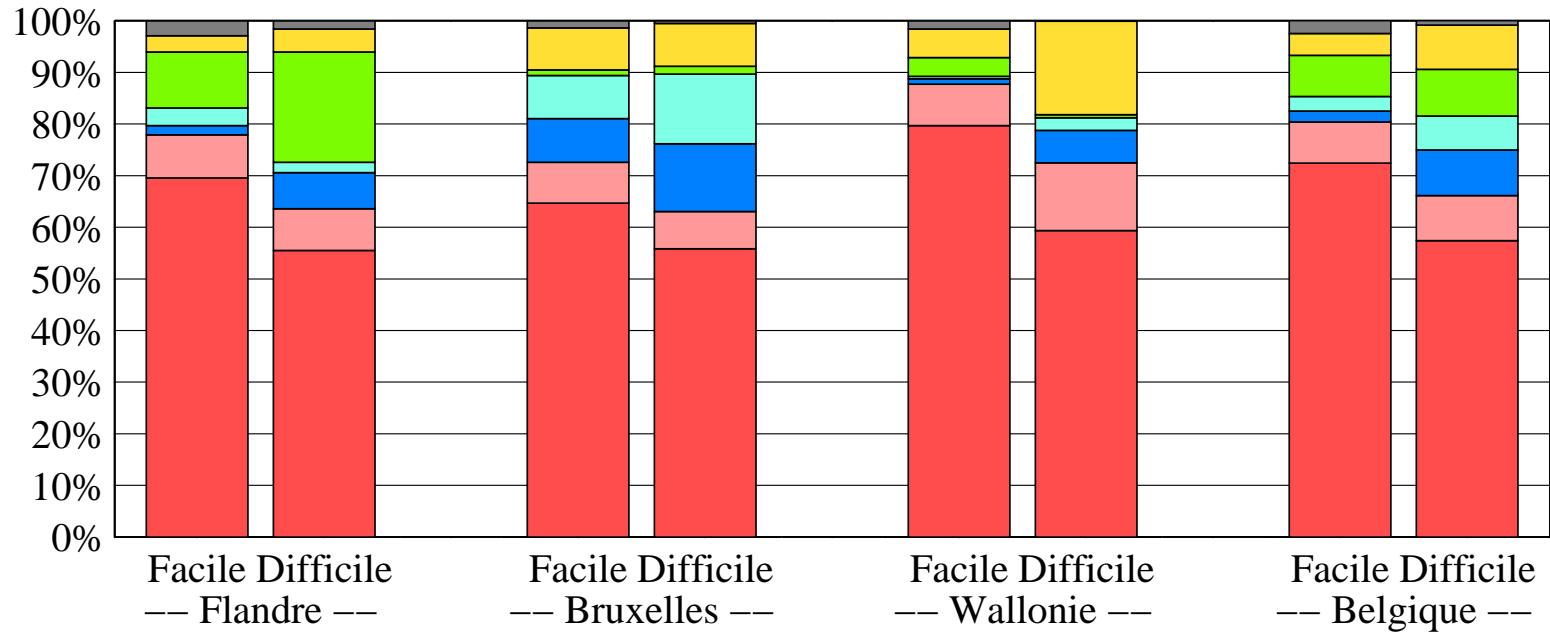


Proportion of individuals using different modes depending on availability of a garage at home

- Car (driver) ■ Car (passenger) ■ Public Transports ■ Train
- Two wheels ■ Walk ■ Other

Modal choice and parking facility

- Outline**
- Introduction
 - The households
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 - Temporality
 - Trip purpose
 - **Modal choice**
 - Conclusions



Modal choice for home-work trips (and back)
depending on parking facilities at work

- Car (driver)
- Car (passenger)
- Public Transports
- Train
- Two wheels
- Walk
- Other

ex: J.P. Hubert, Ph. Toint, "La mobilité quotidienne des Belges", P. U. Namur, 2002.



A few **tentative** conclusions

Outline

- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - Modal choice
- ***Conclusions***



A few **tentative** conclusions

- Flanders much more different from Brussels than from Wallonia

Outline

- Introduction
 - The households
 - Socio-spatial aspects
 - Temporality
 - Trip purpose
 - Modal choice
- ***Conclusions***



A few **tentative** conclusions

- Flanders much more different from Brussels than from Wallonia
- Some differences explained by the impact of population density

Outline

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 - Trip purpose
 - Modal choice
- *Conclusions*



A few **tentative** conclusions

- Flanders much more different from Brussels than from Wallonia
- Some differences explained by the impact of population density
- Other impacts more cultural

Outline
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● The households
● Socio-spatial aspects
● Temporality
● Trip purpose
● Modal choice
→ *Conclusions*



A few **tentative** conclusions

- Flanders much more different from Brussels than from Wallonia
- Some differences explained by the impact of population density
 - Other impacts more cultural
 - Differences more apparent in modal choice

Outline
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● Temporality
● Trip purpose
● Modal choice
→ *Conclusions*



A few **tentative** conclusions

- Flanders much more different from Brussels than from Wallonia
- Some differences explained by the impact of population density
- Other impacts more cultural
- Differences more apparent in modal choice

Thank you for your interest and attention