



# *Vienna Walking*

*- Quantifying the importance of walking -*

WALK 21, Vienna  
20.10.2015

Werner Brög, Socialdata 

## **WALKING PATH**

**A**

**Behavioural data represent people**

**B**

**The standardisation of real world**

**C**

**The complexity of a trip**

**D**

**The hidden walking**

**E**

**Inventive methodology**

**F**

**Vienna everywhere?**

# MOBILITY BEHAVIOUR

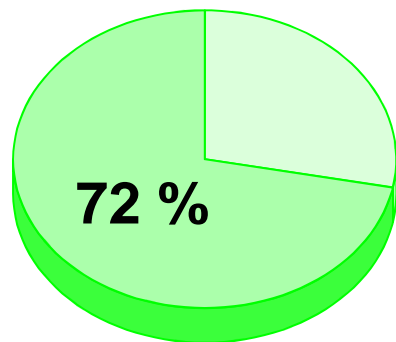
- Vienna 2009 (updated and amalgamated) -

Persons	<b>23,697</b>
Trips	<b>64,076</b>
Response rate	<b>80%</b>

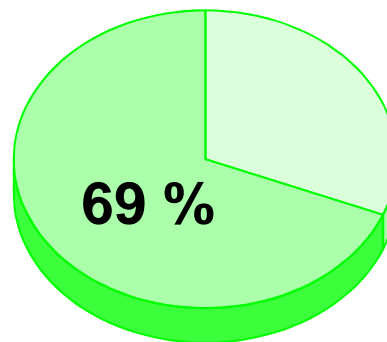
# RESPONSE-RATES

- Diary survey Vienna, 2012 -

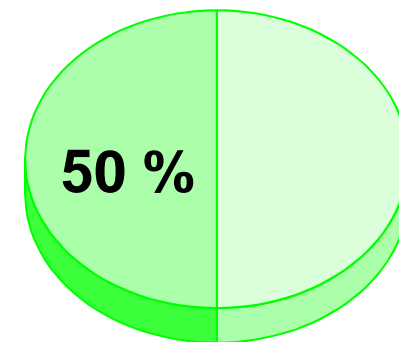
MOBILITY  
BEHAVIOUR



DIARY  
(all hh-members,  
seven days, trip legs)

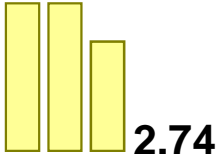
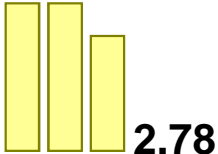
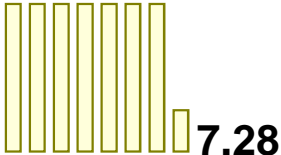







COMBINED  
RESPONSE



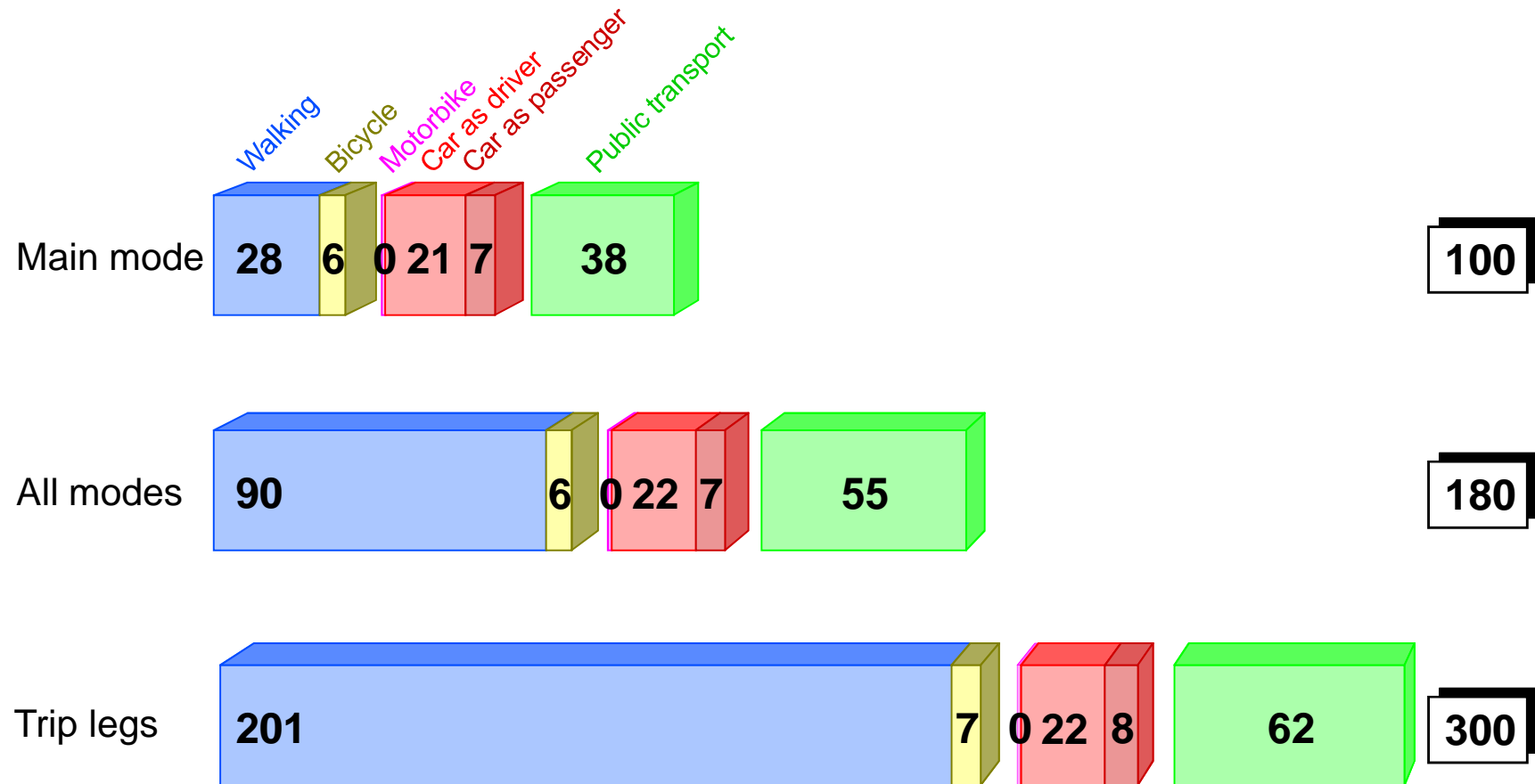
# MOBILITY

- Vienna -

1993	Per person/day	2015
 <p>2.74</p>	Trips	 <p>2.78</p>
 <p>7.28</p>	Trip legs	 <p>8.34</p>
 <p>69'</p>	Traveltime (min)	 <p>72'</p>
 <p>21</p>	Distance (km)	 <p>19</p>

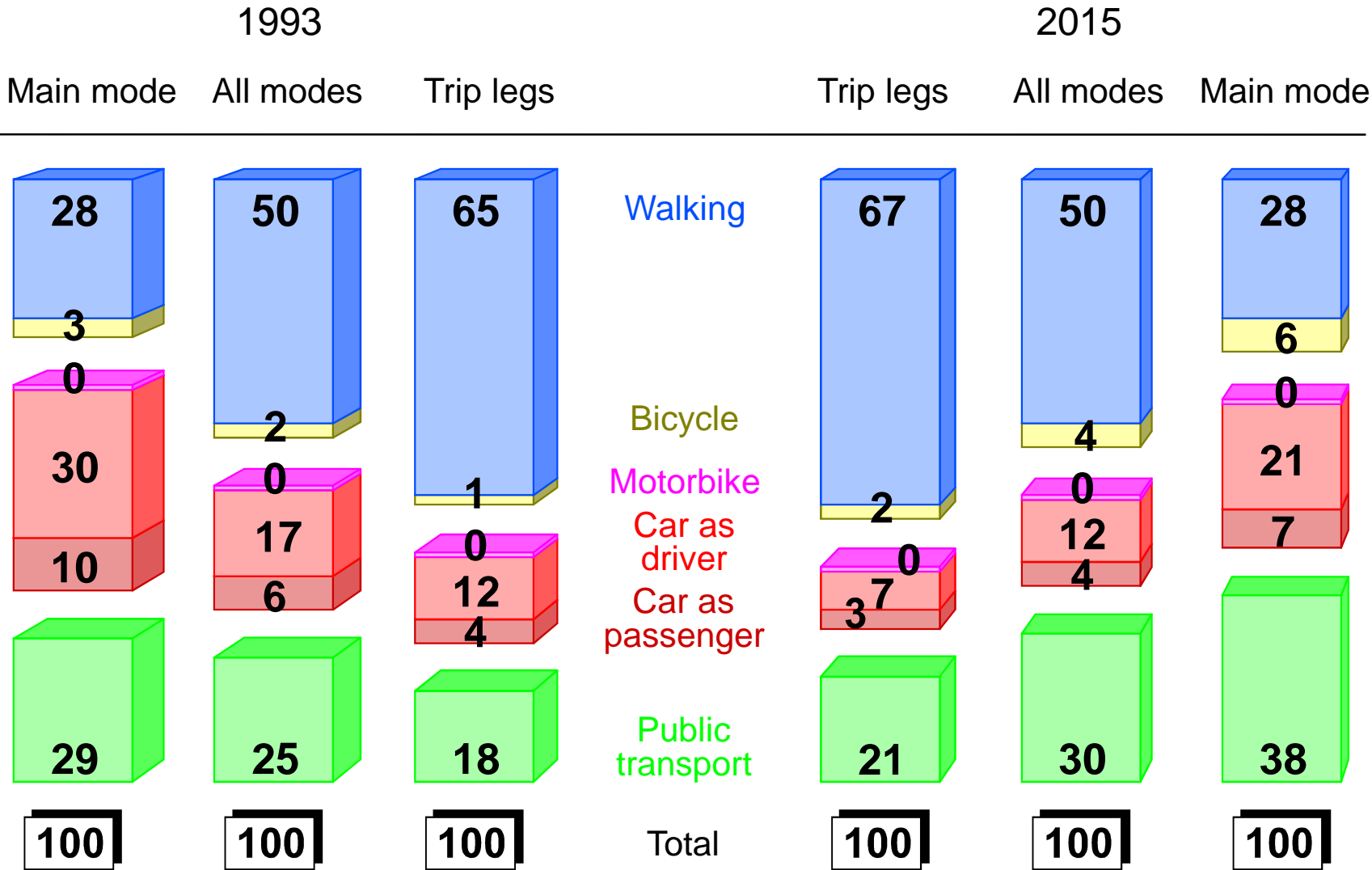
# MODE CHOICE

- Vienna 2015 -



# MODE CHOICE

- Vienna -



# TRIP LEGS per TRIP

- Vienna 2015-

TOTAL	Trip legs	Main mode					
		Walking	Bicycle	Motor-bike	Car as driver	Car as passenger	Public transport
2.01	Walking	1.00	0.08	0.62	0.65	0.60	4.08
0.07	Bicycle		1.00	0.00	0.00	0.00	0.03
0.00	Motorbike			1.00	0.00	0.00	0.00
0.22	Car as driver				1.00	0.00	0.03
0.08	Car as passenger					1.00	0.02
0.62	Public transport						1.64
3.00	TOTAL	1.00	1.08	1.62	1.65	1.60	5.80



# TRAVELDISTANCE

- Vienna 2015-

Per person/day (km)	TOTAL	MODE "ALONE"	WALKING LEGS
Walking	0.8	0.8	—
Bicycle	0.6	0.6	0.0
Motorbike	0.1	0.1	0.0
Car as driver	7.0	6.9	0.1
Car as passenger	3.1	3.0	0.0
Public Transport	7.7	6.8	0.9
<b>TOTAL</b>	<b>19.3</b>	<b>18.2</b>	<b>1.1</b>


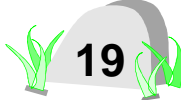



# TRAVELTIME

- Vienna 2015-

Per person/day (min)	TOTAL	MODE "ALONE"	WALKING LEGS	WAITING
Walking	12	12	–	–
Bicycle	3	3	0	–
Motorbike	0	0	0	–
Car as driver	15	13	2	–
Car as passenger	6	5	1	–
Public Transport	36	17	14	5
<b>TOTAL</b>	<b>72</b>	<b>50</b>	<b>17</b>	<b>5</b>

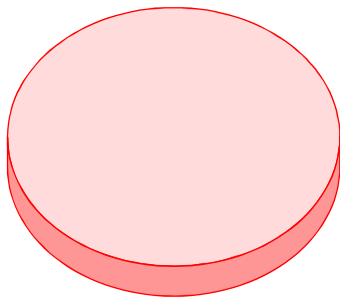
# THE "HIDDEN" WALKING

- Vienna 2015-

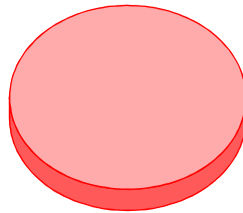
Per person/day	"Hidden"	TOTAL
Extra kilometers walking (trip legs)	 1.1	 19
Extra minutes walking (trip legs)	 17'	 72'
Extra minutes waiting	 5'	

# PROPOSED CONCEPT

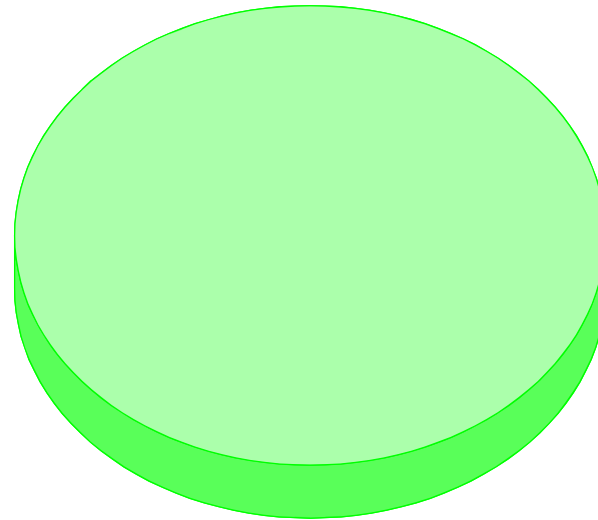
Special study  
on trip legs



Indicators  
derived

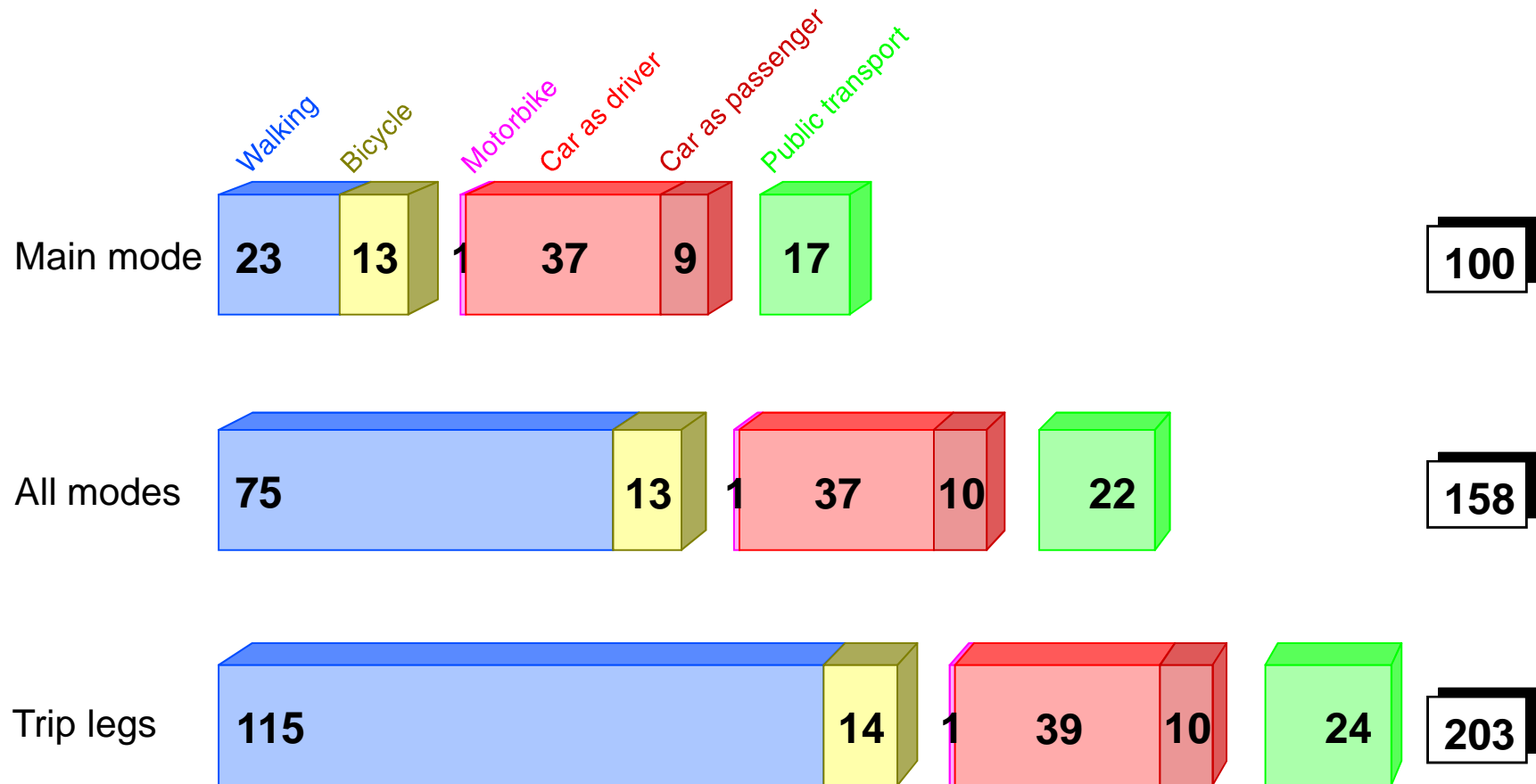


Mobility study  
with indicators



# MODE CHOICE

- German cities (simulated) -



# MODE CHOICE

German cities

Vienna 2015

Main mode

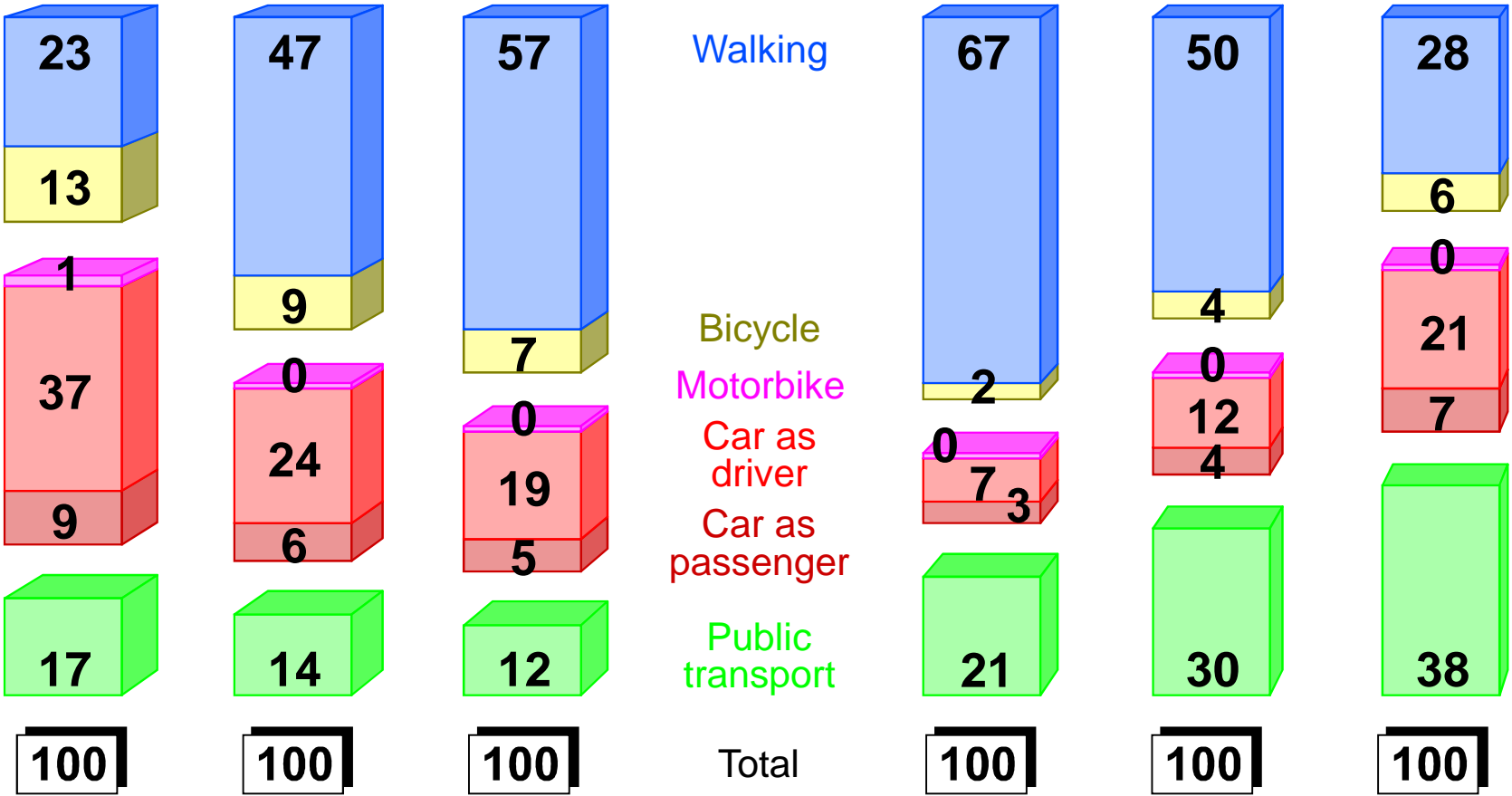
All modes

Trip legs

Trip legs

All modes

Main mode





Thank you for your time