Charlois

Analysis

Spring 2009
Veldacademie
AR2U080

Delft University of Technology
Municipality of Rotterdam

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Content

5 Introduction & Themes

6 Timeline

8 Categories

9 Living

69 Work & Income

89 Health Care & Support

105 Education

123 Social Participation

167 Economy

197 Safety

223 General

229 Sources

Introduction

This booklet provides an analysis that is the result of the course AR2U080 at the Field Academy in Charlois, Rotterdam, a collaboration between the municipality of Rotterdam and the University of Technology in Delft.
The analysis is derived from hard and soft data, offering detailed insight on Charlois in both numbers and people, hereby developing a theoretical background on the area for further development.

The data was divided in 7 main categories. Subcategories of these were grouped in three scale levels, the city, the district and the neighbourhood.
A focus in analysis from themes rather than categories made research from multiple angles valid.
In the final scheme (as seen on the frontpage) the analysis results -cells- are defined by the categories -columns- and scales -rows-. The themes were maintained by icons as seen right, resulting in a final scheme where within connections were made between different elements of analysis that have influence on one another.

Introduction & Themes

Themes

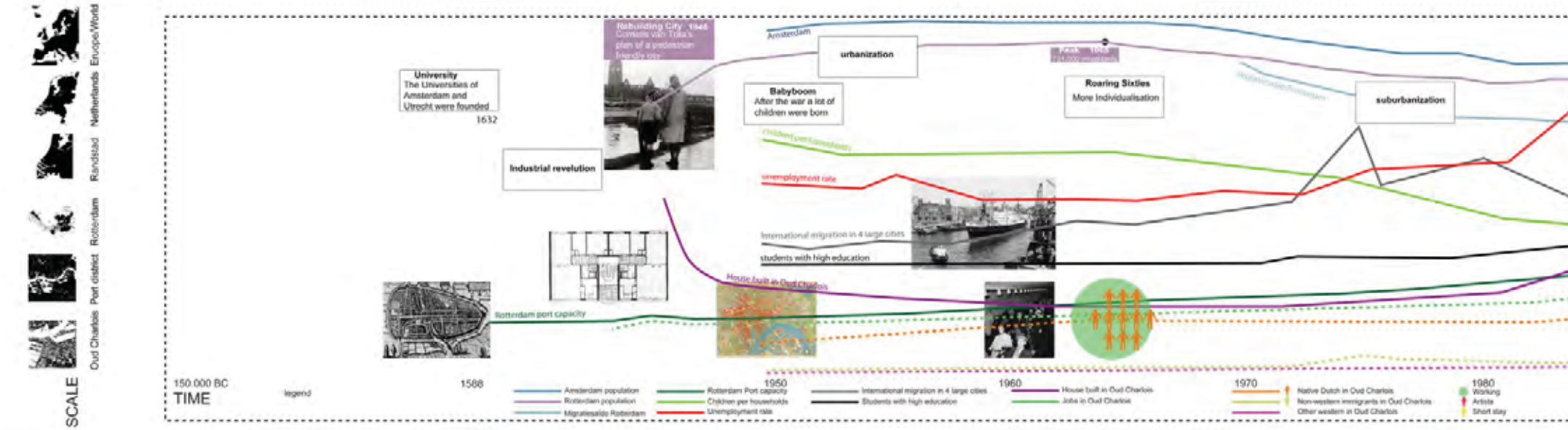
MOBILITY

PRIVATE / PUBLIC

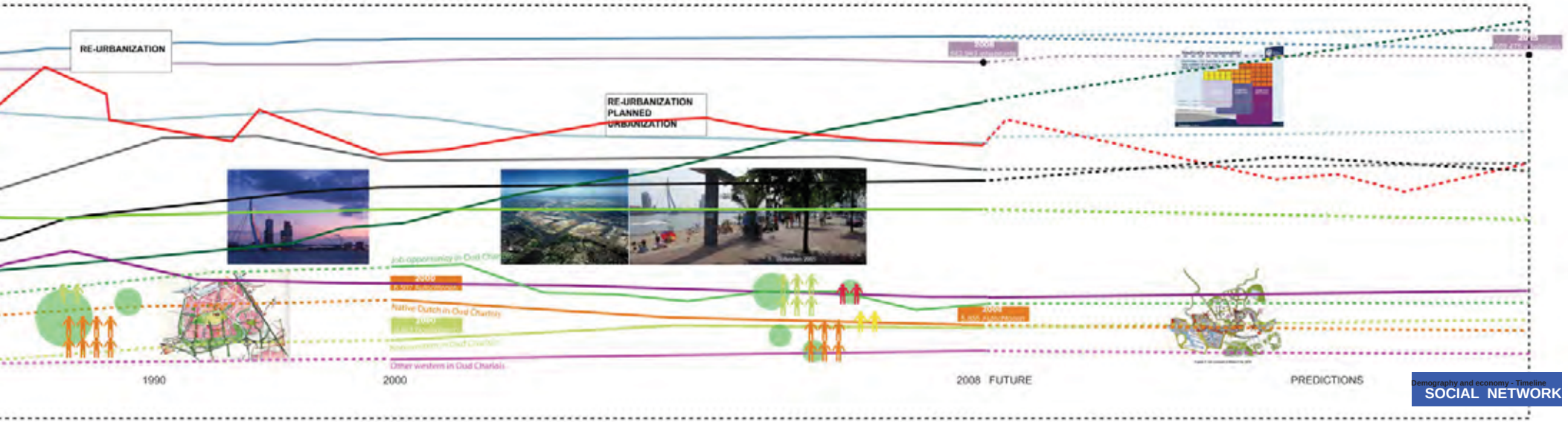
SOCIAL NETWORKS

SOCIAL ABILITY

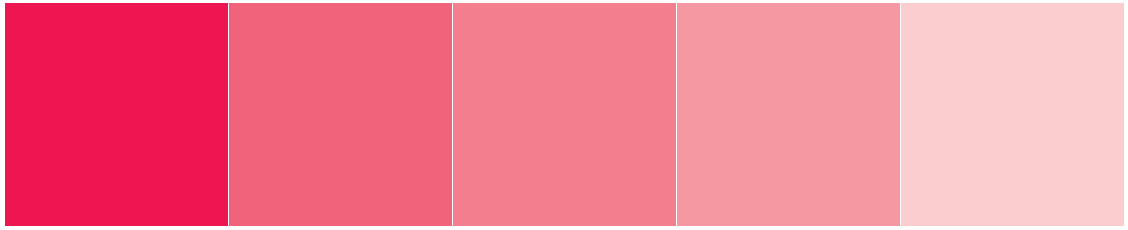
IDENTITY


SCALE
Oud Charlois
Port district
Rotterdam
Randstad
Netherlands
Europe/World
150.000 BC
TIME
legend
1588
University
The Universities of Amsterdam and Utrecht were founded
1632
Industrial revelation
Rebuilding City 1948
Cornelis van Tijka's plan of a pedestrian friendly city
Babyboom
After the war a lot of children were born
urbanization
Roaring Sixties
More Individualisation
suburbanization
Amsterdam
children per household
unemployment rate
International migration in 4 large cities
students with high education
House built in Oud Charlois
Rotterdam port capacity
1950
1960
1970
1980
Amsterdam population
Rotterdam population
Migratiesaldo Rotterdam
Rotterdam Port capacity
Children per households
Unemployment rate
International migration in 4 large cities
Students with high education
House built in Oud Charlois
Jobs in Oud Charlois
Native Dutch in Oud Charlois
Non-western immigrants in Oud Charlois
Other western in Oud Charlois
Working
Artiste
Short stay

Timeline


RE-URBANIZATION
RE-URBANIZATION
PLANNED
URBANIZATION
Native Dutch in Oud Charlois
Other western in Oud Charlois
1990
2000
2008 FUTURE
PREDICTIONS
Demography and economy - Timeline
SOCIAL NETWORK

Categories



LIVING

Rotterdam

Travel times: Oud Charlois(Rotterdam)-Slotervaart(Amsterdam)

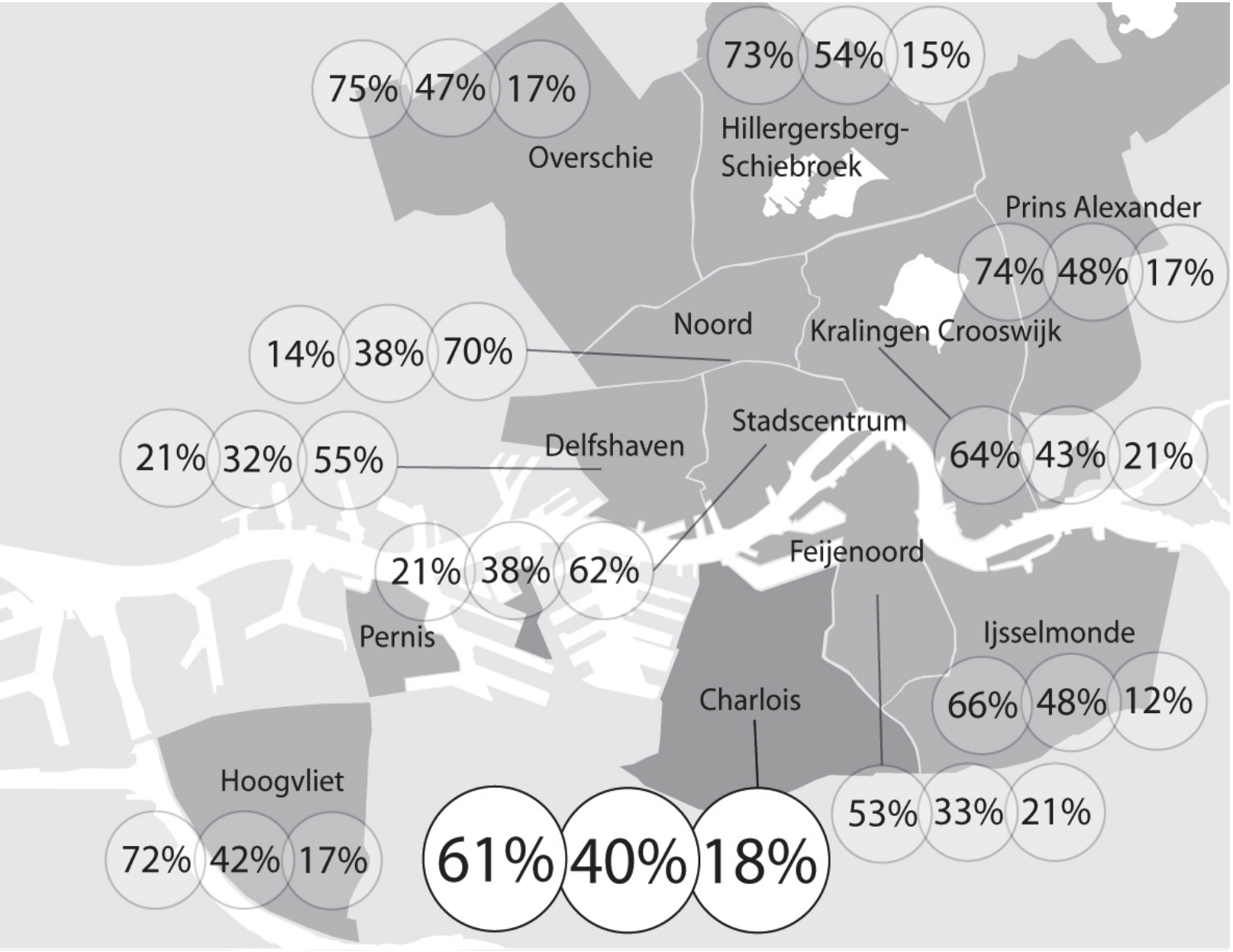
medium/destination	Oud Charlois-Rotterdam Central (5,1 km)	Oud Charlois-Zuidplein (2km)	Oud Charlois-Rotterdam Blaak (5km)	Oud Charlois-Lijnbaan (4,7km)	conditions	
bicycle	21 min	8min	20min	19min	(avg. Speed 12-15 km/h)	
public transport	28min	10min	20min	23min	(optimal, 0 or 1 change)	
car	20min+parking time	6min+parking time	20min+parking time	17min+parking time	(avg. Speed 15-25 km/h)	rush hour
car	6,5min+parking time	2,5min+parking time	6min+parking time	5,5min+parking time	(avg. Speed 50 km/h)	normal

medium/destination	Slotervaart-Amsterdam Centraal (7,2 km)	Slotervaart-Amsterdam Lelylaan (2 km)	Slotervaart-Amsterdam Sloterdijk (6,5 km)	Slotervaart-de Kalverstraat (6 km)	conditions	
bicycle	27min	8min	24min	22min	(avg. Speed 12-15 km/h)	
public transport	29min	7min	25min	24min	(optimal, 0 or 1 change)	
car	22min+parking time	6min+parking time	19min+parking time	18min+parking time	(avg. Speed 15-25 km/h)	rush hour
car	10min+parking time	2min+parking time	8min+parking time	8min+parking time	(avg. Speed 50 km/h)	normal

mobility by bicycle

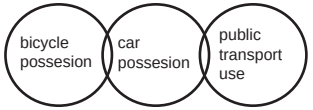
Legend

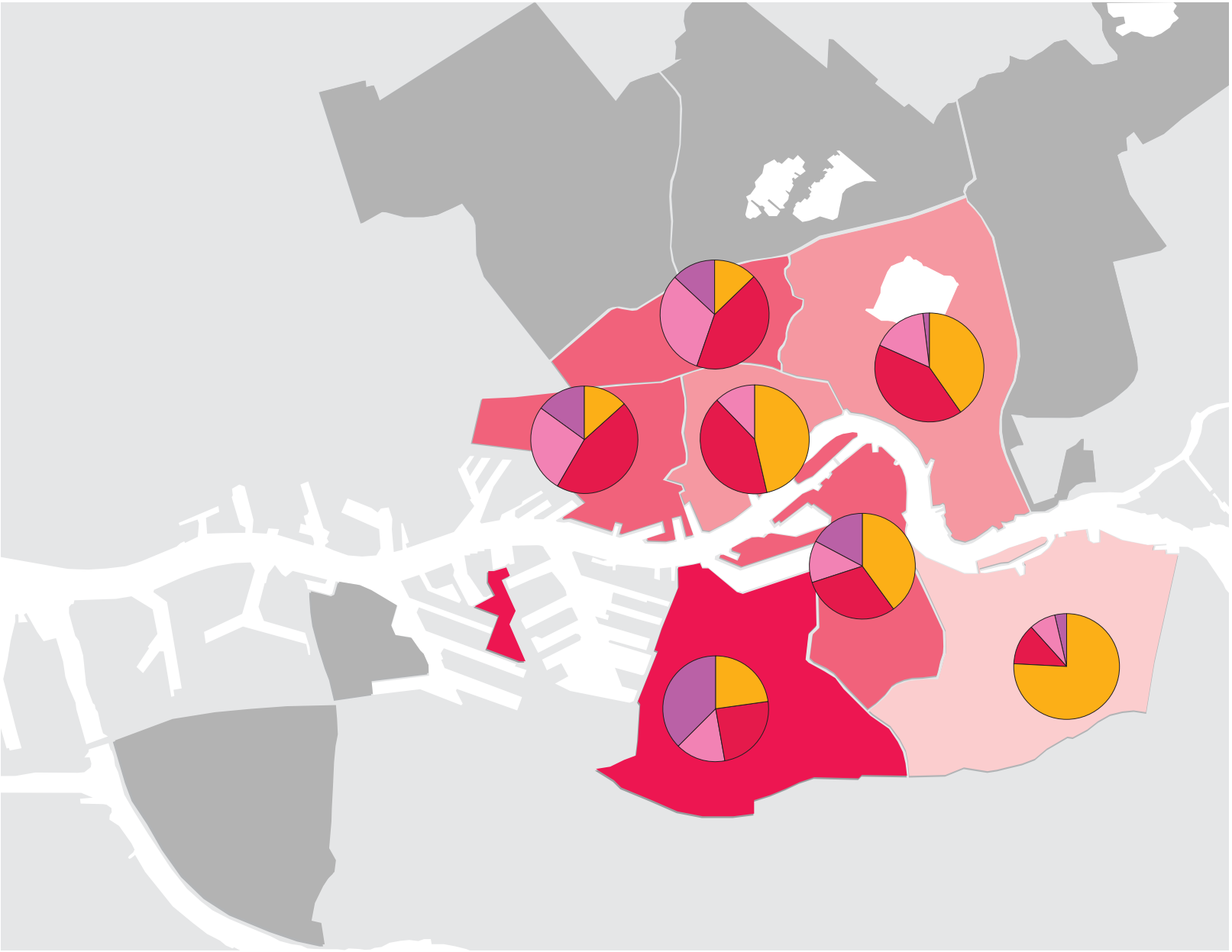
number of daily displacements by bike per person



Bicycle car & Public transport

Legend





Cheap dwellings

Legend

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Cheap dwellings

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City parks

Legend

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Charlois position

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Public - private - Rotterdam - Green

PUBLIC / PRIVATE

Traffic Accidents

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an erous rossin s
or ore serious acci ents in t e

PRIVATE / PUBLIC

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Legend

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PRIVATE / PUBLIC

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Legend

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40 to 50 mg/m3

50 to 60 mg/m3

PRIVATE / PUBLIC

ir uality

Legend

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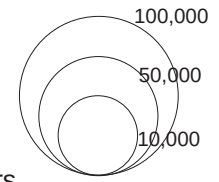
PRIVATE / PUBLIC

Ethnic composition

Legend

- Surinamers
- Antillianen
- Kaapverdianen
- Turken
- Marokkanen
- Overig niet-westers
- Autochtonen
- Overige Europese Unie
- Overig westers



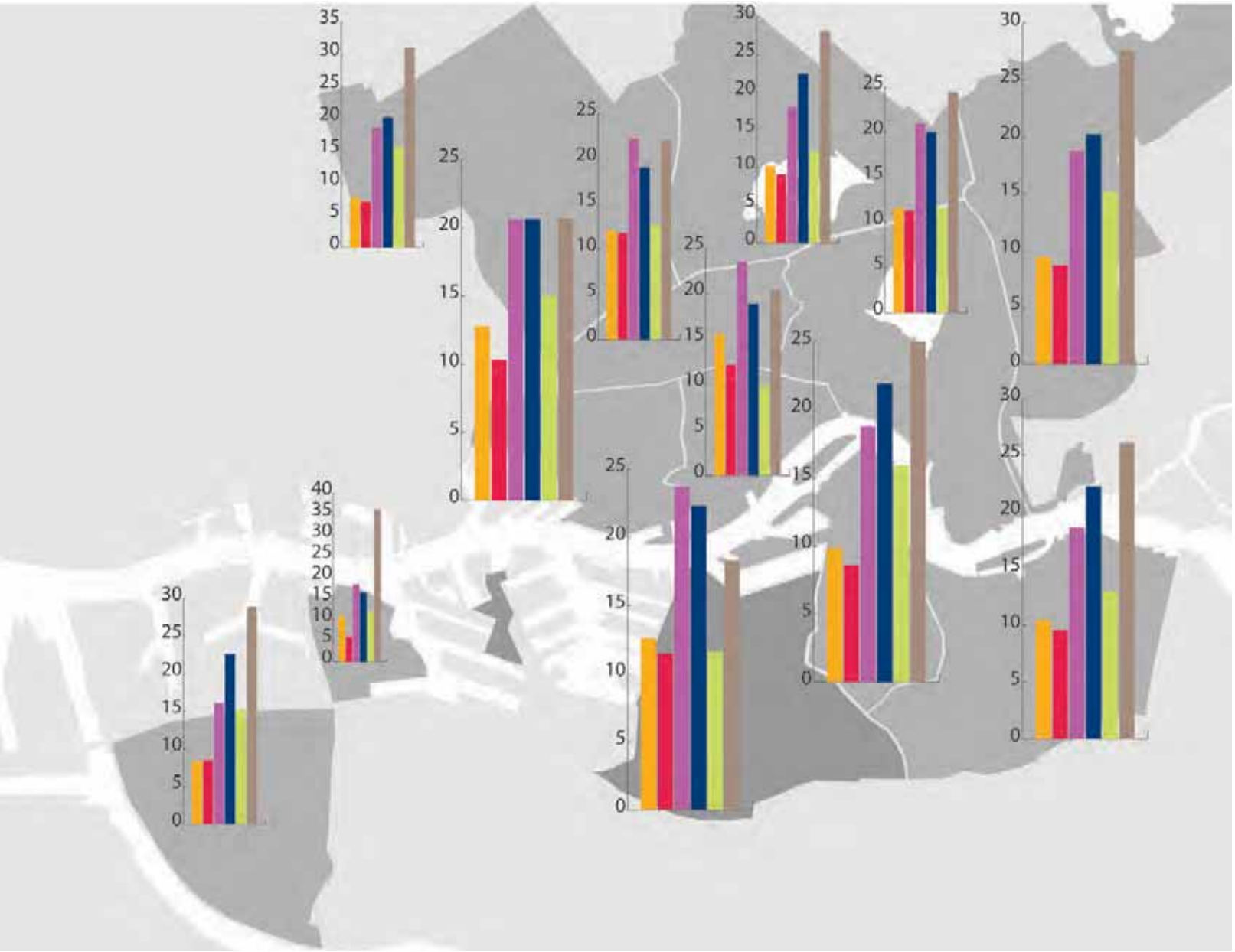
Ethnic composition, 2008

	Rotterdam	Charlois	Oud-Charlois
%Surinamers	9	11	10
%Antillianen	3	6	5
%Kaapverdianen	3	2	2
%Turken	8	9	10
%Marokkanen	6	7	7
%Other Not Westers	7	10	9
%Native Dutch	54	45	46
%Other EU	6	5	6
%Other Westers	5	4	10

Origin of immigrants

Oud-Charlois, 2008

	Population
Surinamers	1,260
Antillianen	672
Kaapverdianen	310
Turken	1,264
Marokkanen	910
Other Not Westers	1,125
Native Dutch	5,855
Other EU	734
Other Westers	465
Total	12,595



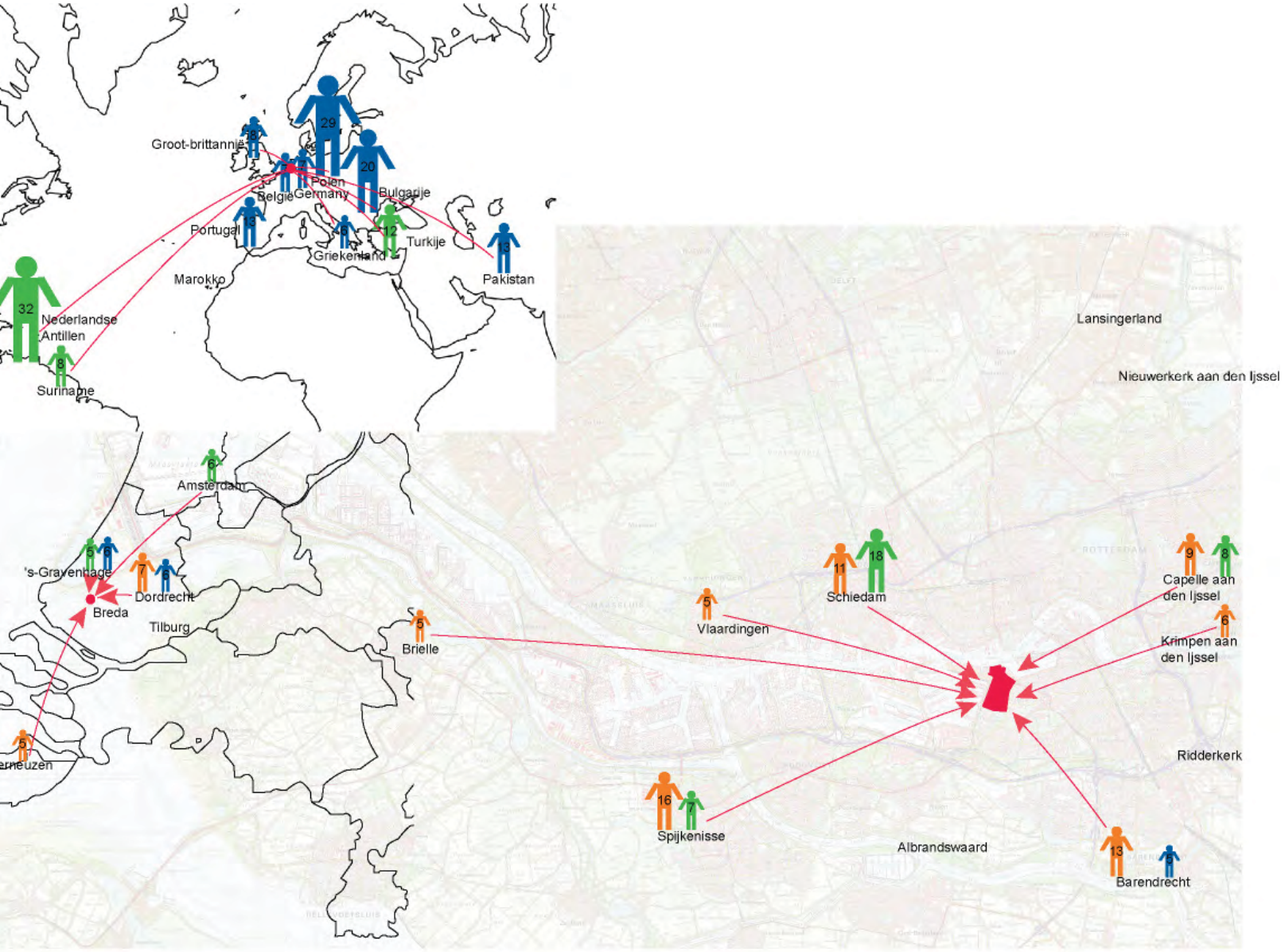
Average Stay Years

Legend

- % people stay less than1 year
- % people stay at least1 year
- % people stay 2-4 years
- % people stay 5-9 years
- % people stay 10-14 years
- % people stay more than15 years

Residential addresses, 2008

	Rotterdam	Charlois	Oud-Charlois
% people stay less than 1 year	30,069	3,788	652
% people stay at least 1 year	26,993	3,437	656
% people stay 2-4 years	54,339	7,095	1,383
% people stay 5-9 years	56,664	6,690	1,142
% people stay 10-14 years	36,718	3,489	792
% people stay more than15 years	66,706	5,500	1,203



Move mobility-Move in

Legend

- Native Dutch
- Not weaster Immigrant
- Other nationality's Immigrant
- NO. Numbers of people

Oud-Charlois, 01~07

	numbers of people move in from other neighborhood	total people move in from outside the city	numbers of people moved within the same neighborhood
2001	1,202	871	369
2002	1,092	874	286
2003	1,396	841	413
2004	1,315	801	497
2005	1,109	820	373
2006	999	784	390
2007	866	726	270

Living - x - Move in
Social Network

Move mobility- Move out

Legend

- Native Dutch
- Not weaster Immigrant
- Other nationality's Immigrant
- NO. Numbers of people

Oud-Charlois, 01~07

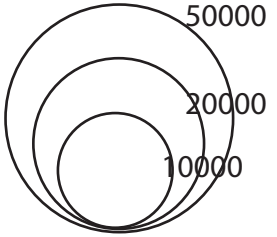
	numbers of people move out to other neighborhood	total people move out to outside the city	numbers of people moved within the same neighborhood
2001	1,193	796	369
2002	1,095	882	286
2003	1,119	912	413
2004	1,173	987	497
2005	1,117	960	373
2006	1,016	1,020	390
2007	960	994	270

Living - x - Move out
Social Network

Households

Legend

- one person
- two persons
- two persons (married)
- family with children (not married)
- family with children (married)
- one parent
- rest
- instititutional amount



Demography - 1/50000 - Households

SOCIAL NETWORK

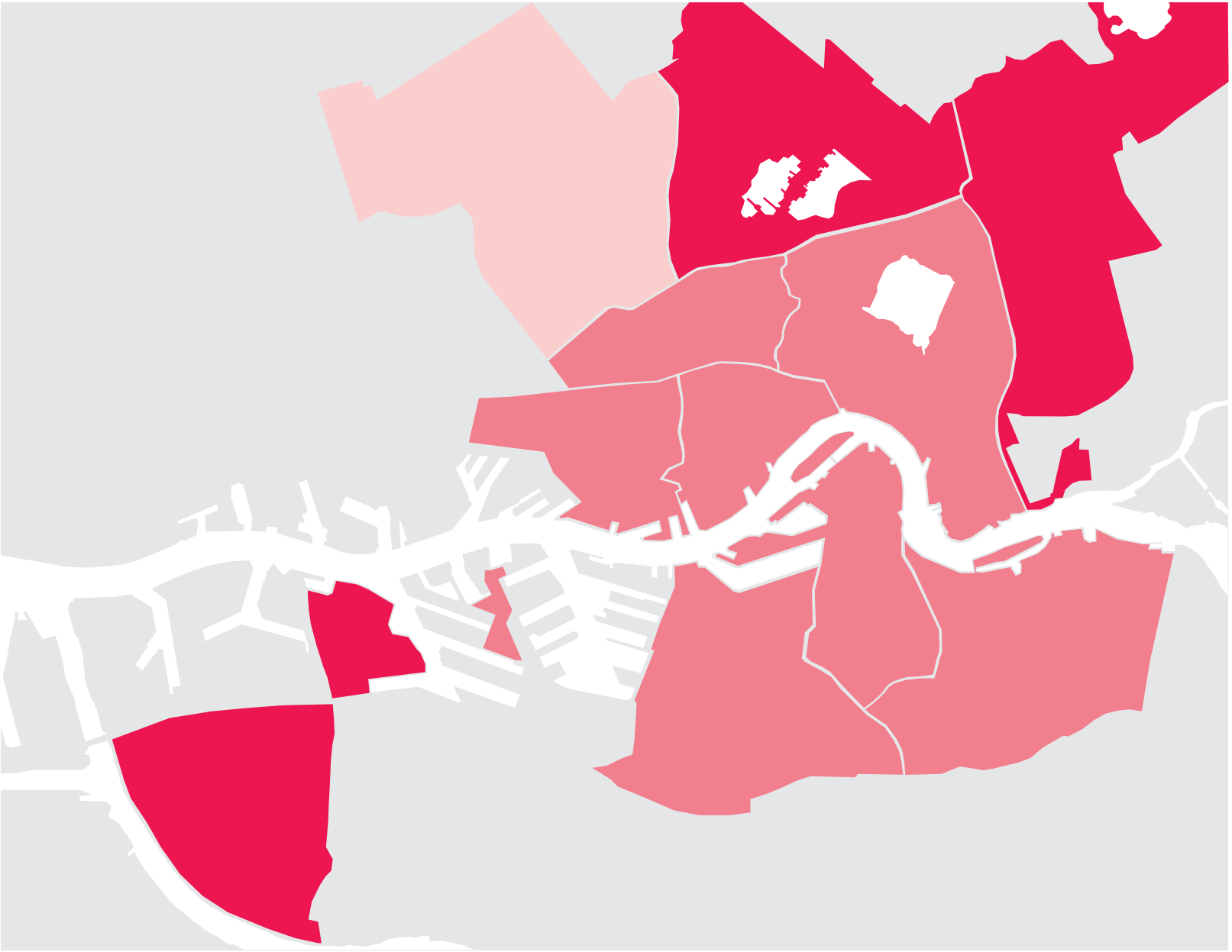
Age (Rotterdam)

Legend

- 0-9
- 10-19
- 20-29
- 30-39
- 40-49
- 50-59
- 60+

Age

	0-14	15-65	65`+
Stadscentrum	2901	23885	3285
Delfshaven	13177	51251	5475
Overschie	2490	10570	2708
Noord	7115	37393	4921
Hillegersberg-Schiebroek	7649	25662	7535
Kralingen-Crooswijk	6867	35889	6460
Prins Alexander	14633	57393	17199
Feijenoord	13307	47737	7869
IJsselmonde	9898	37267	10821
Charlois	10773	42617	8901
Pernis	789	3148	800
Hoogvliet	5882	22598	6430
Hoek van Holland	1433	6193	1775



Facilities

Legend

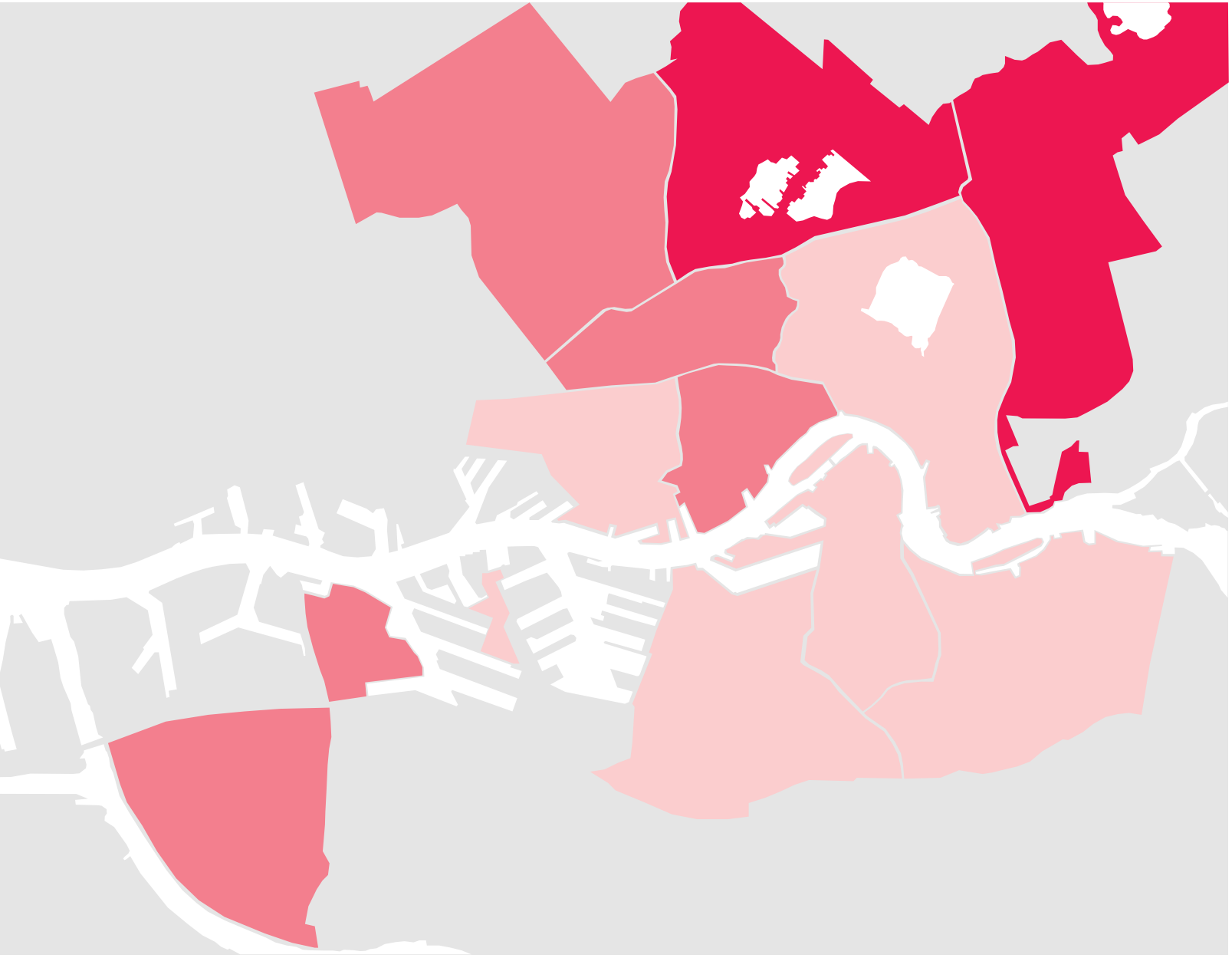
- Satisfactory rate above 6
- Satisfactory rate between 5.6 and 6
- Satisfactory rate under 5.5

Satisfaction on facilities

	Adequate
Stadscentrum	5,9
Delfshaven	5,7
Overschie	5,4
Noord	5,6
Hillegersberg-Schiebroek	6,3
Kralingen-Crooswijk	5,8
Prins Alexander	6,1
Feijenoord	5,6
IJsselmonde	5,9
Charlois	5,6
Pernis	6,3
Hoogvliet	6,2
Hoek van Holland	7,1
Average Rotterdam	5,8

Satisfaction on facilities is based on two main aspects; the satisfaction of physical facilities and the reputation and name of social facilities. Both are researched by questionnaires on two sets of different categories of facilities.

atisfaction

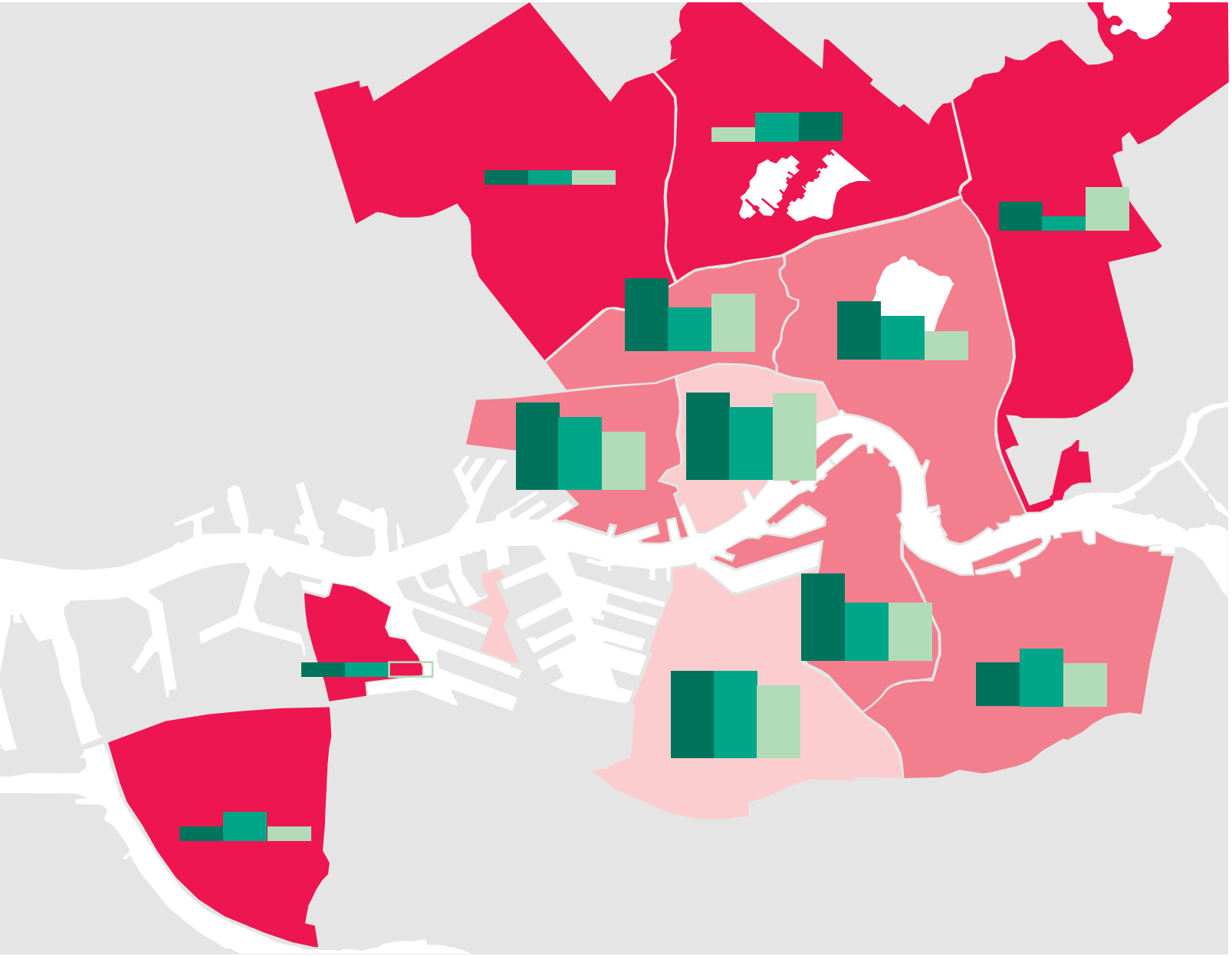


Legend

- high satisfaction level
- medium satisfaction level
- low satisfaction level

atisfaction level

	% Satisfied
Stadscentrum	
Delfshaven	
Overschie	
Noord	
Hillegersberg-Schiebroek	
Kralingen-Crooswijk	
Prins Alexander	
Feijenoord	
IJsselmonde	
Charlois	
Pernis	
Hoogvliet	



afety inde and violence

Legend

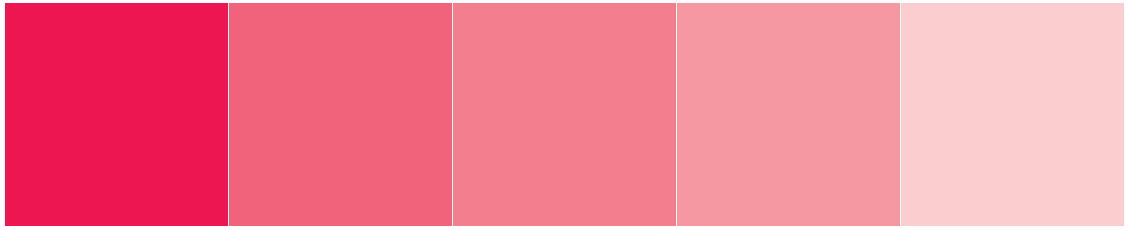
high safety score
medium safety score
low safety score

violence
threats
purse robbery

afety inde

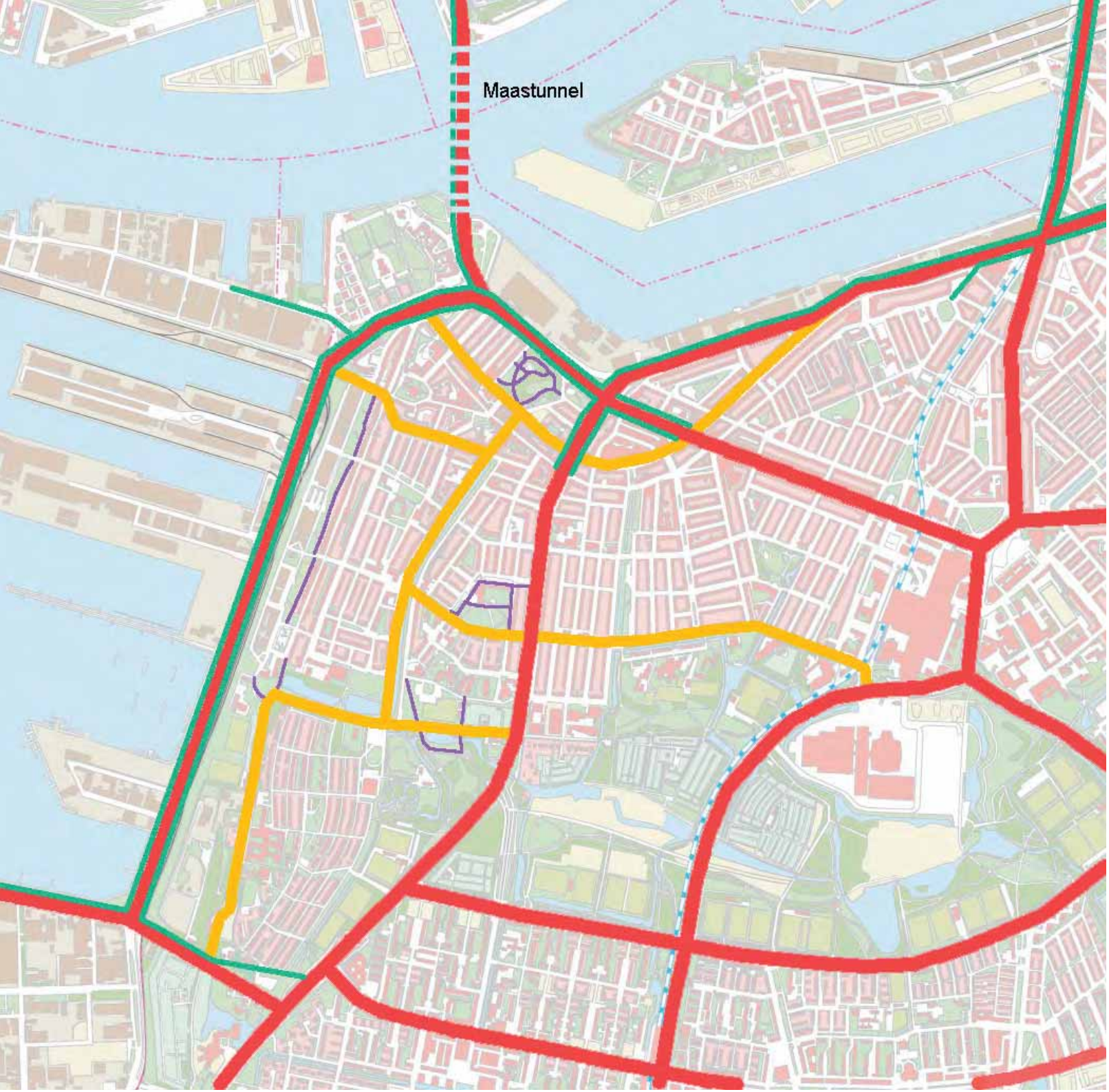
	score 1-10
Stadscentrum	
Delfshaven	
Overschie	
Noord	
Hillegersberg-Schiebroek	
Kralingen-Crooswijk	
Prins Alexander	
Feijenoord	
IJsselmonde	
Charlois	
Pernis	
Hoogvliet	

Categories



LIVING

Charlois



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WOZ
Dwelling value
Legend

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Neighbourhood fights

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Public - private - Charlois - WOZ

PUBLIC / PRIVATE

Neighbourhood fights

Legend

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Neighbourhood fights

u arlois as relati e e proble s with neighbourhood fight

Public - private - Charlois - fights

PUBLIC / PRIVATE

Neighbourhood fights

Legend

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Neighbourhood fights

u arlois as relati e e proble s with neighbourhood fight

Public - private - Charlois - fights

PUBLIC / PRIVATE

Violence

Legend

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Violence

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Public - private - Charlois - Violence

PUBLIC / PRIVATE

Family housing

Legend

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Number of family housing

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Dwelling occupation

Legend

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Number of family housing

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Public - private - Charlois - Dwelling occ.

PUBLIC / PRIVATE

Cheap dwellings

Legend

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Cheap dwellings

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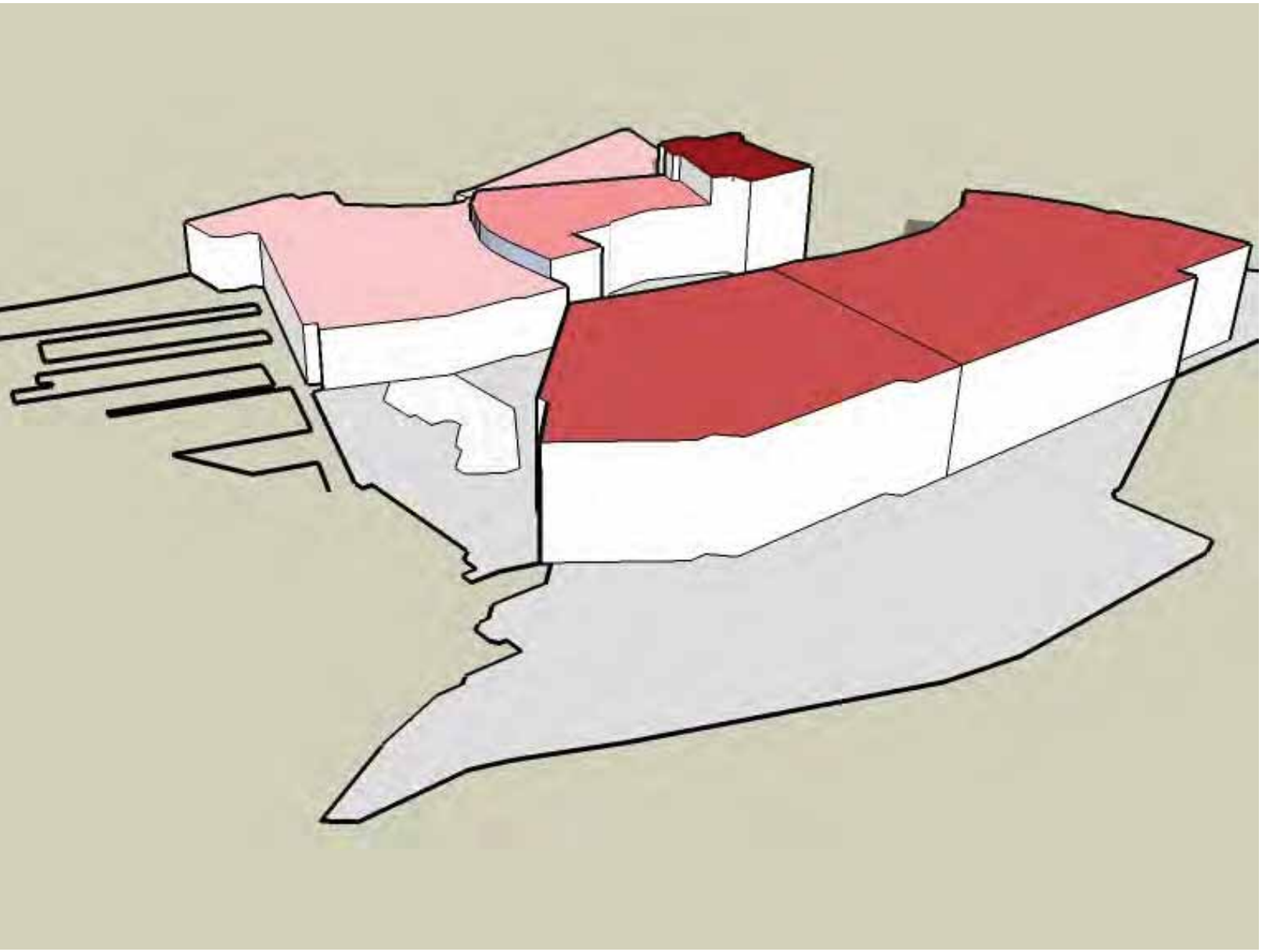
Public - private - Charlois - Cheap dwellings

PUBLIC / PRIVATE



Traffic Collisions

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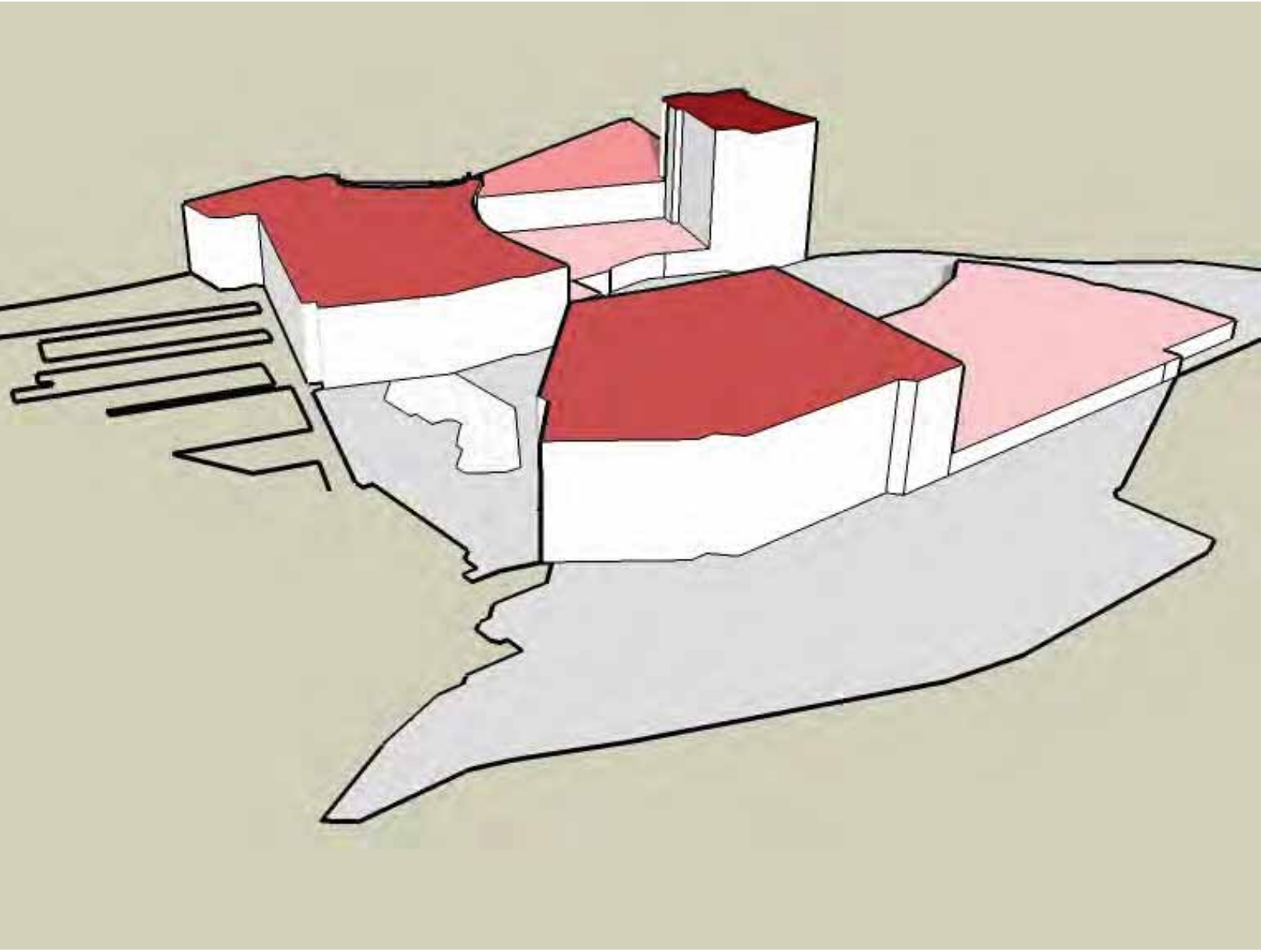
PRIVATE / PUBLIC



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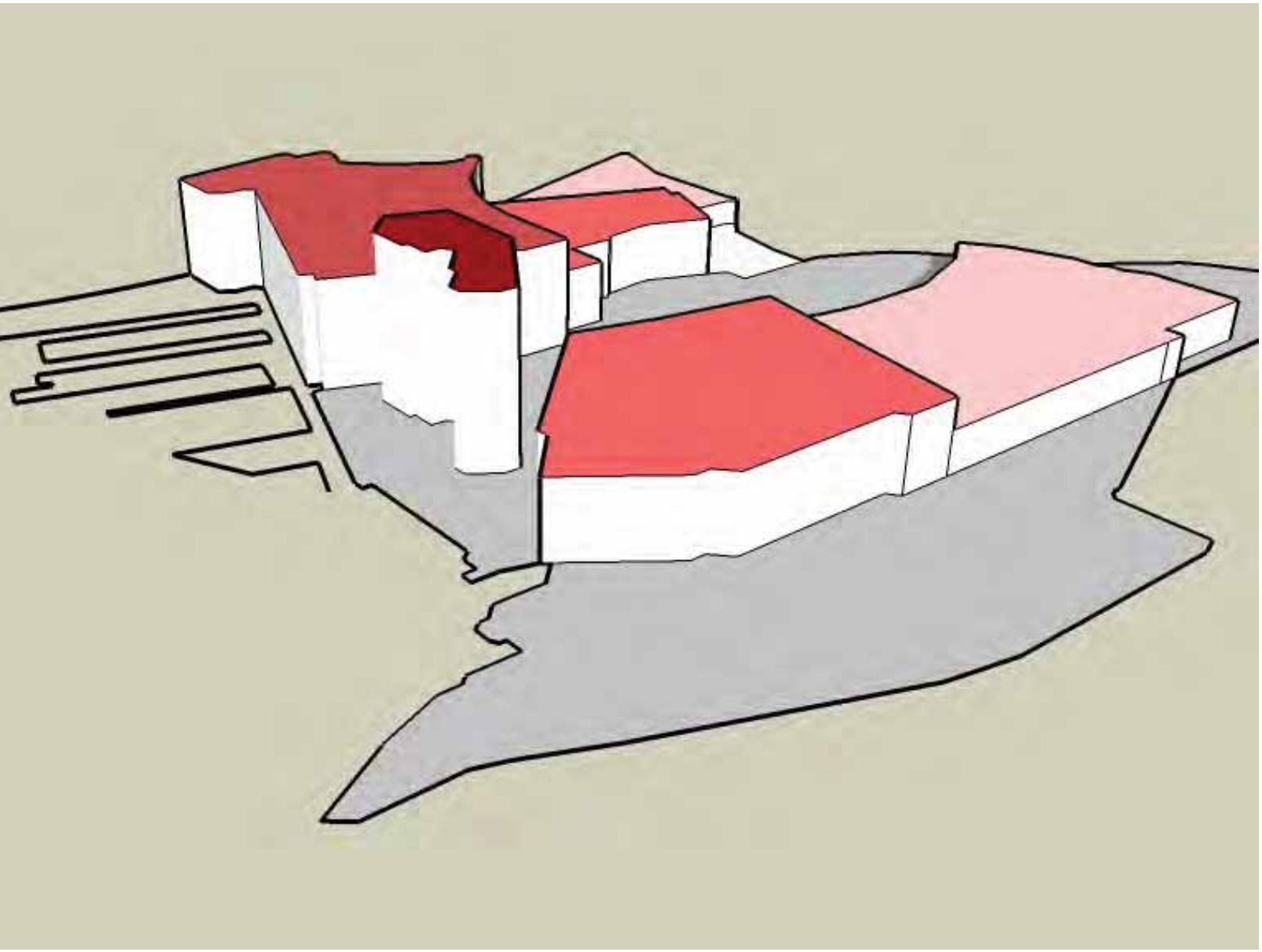

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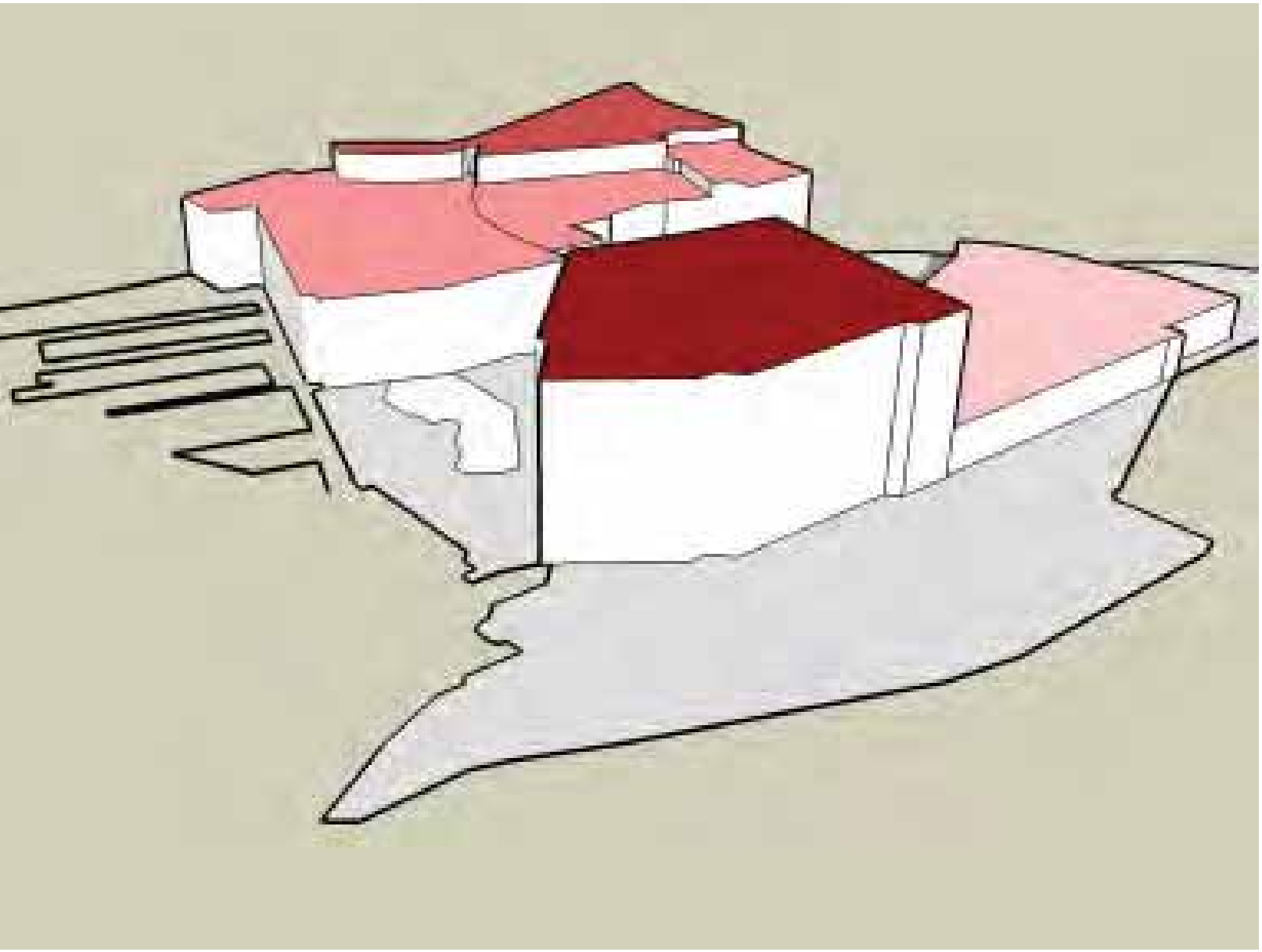

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PRIVATE / PUBLIC

Green Connections

Legend

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connection
unclear connection

Neighbourhood fights

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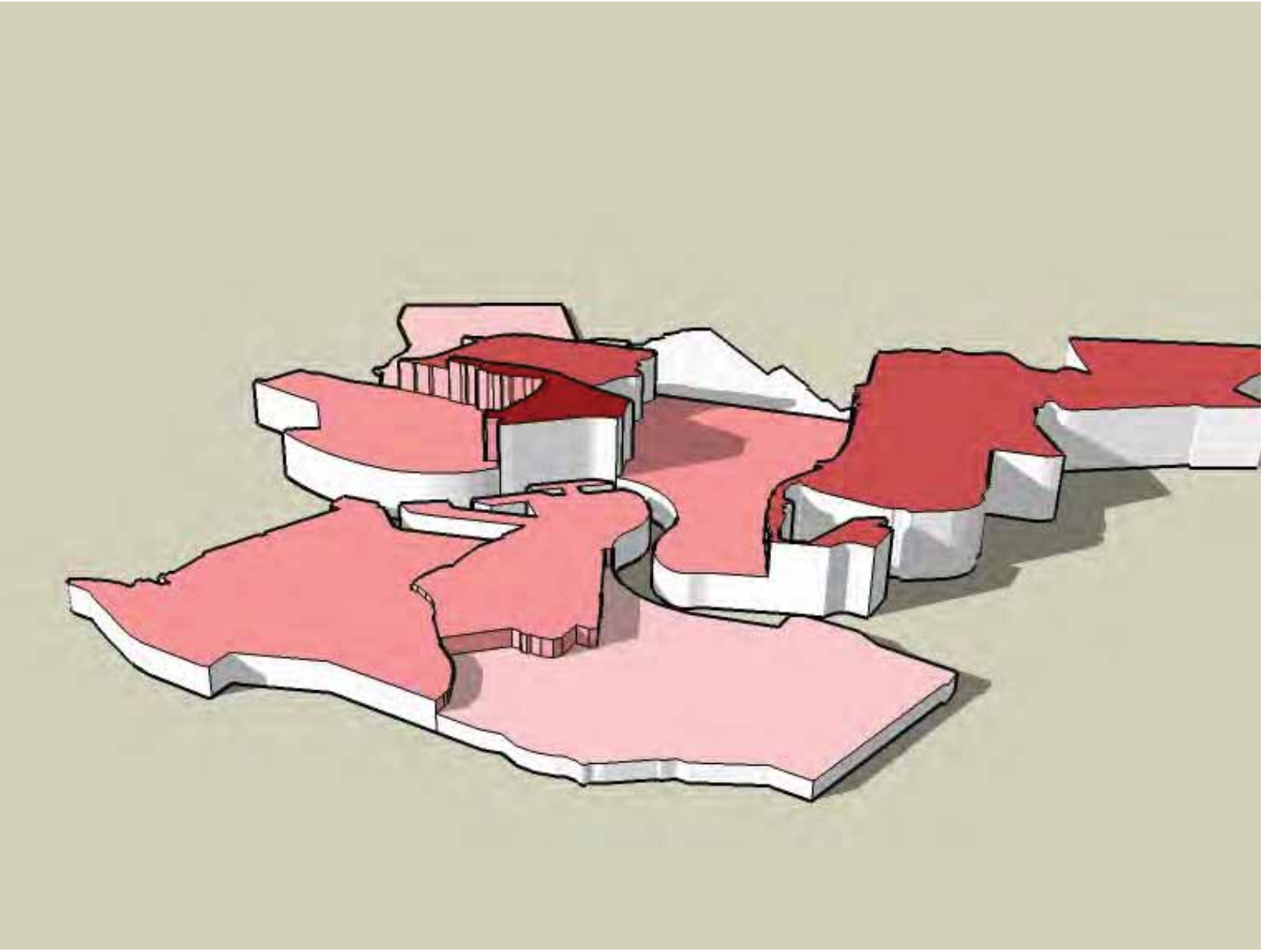
Public - private - Charlois - Green connections

PUBLIC / PRIVATE



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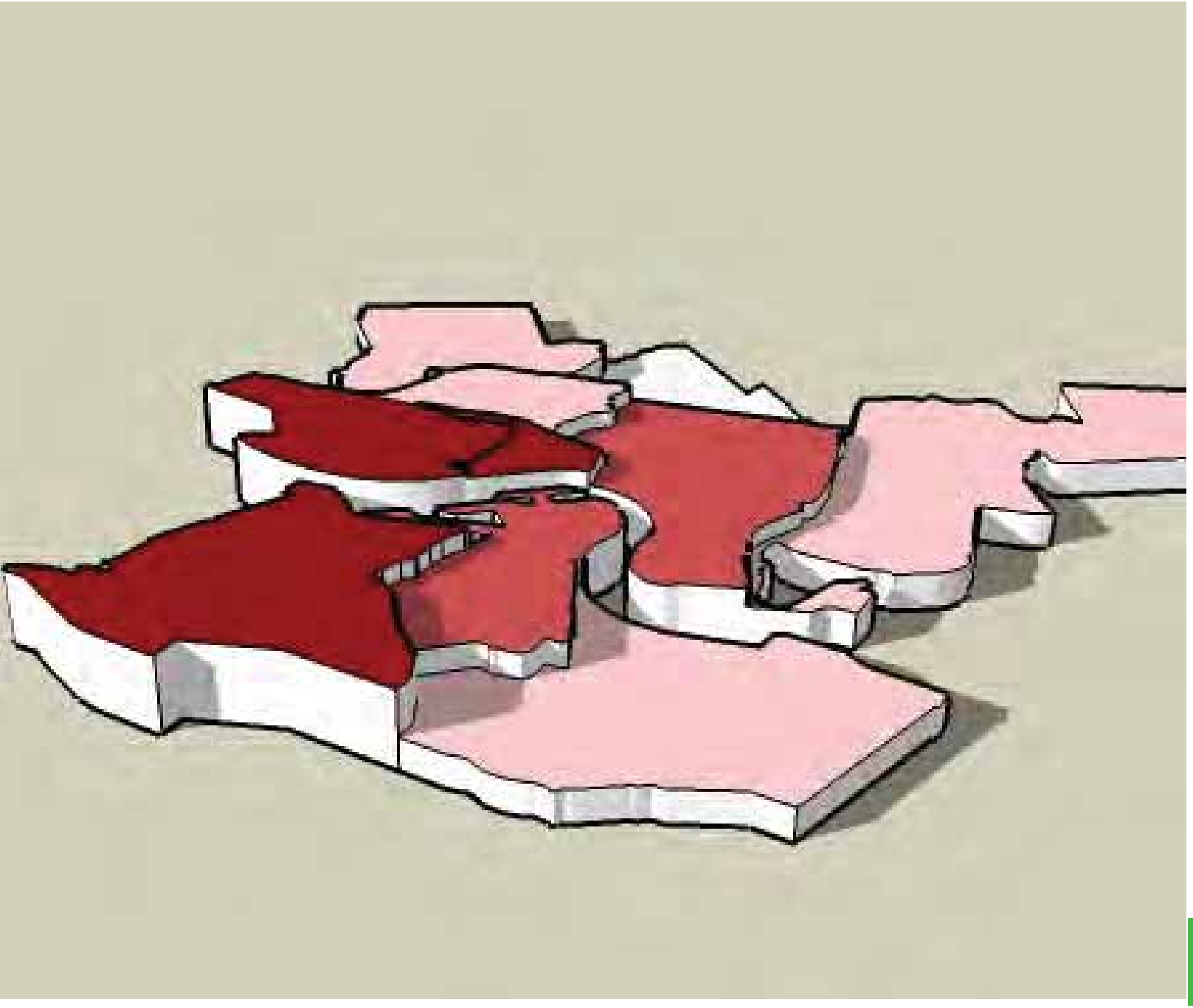
PRIVATE / PUBLIC



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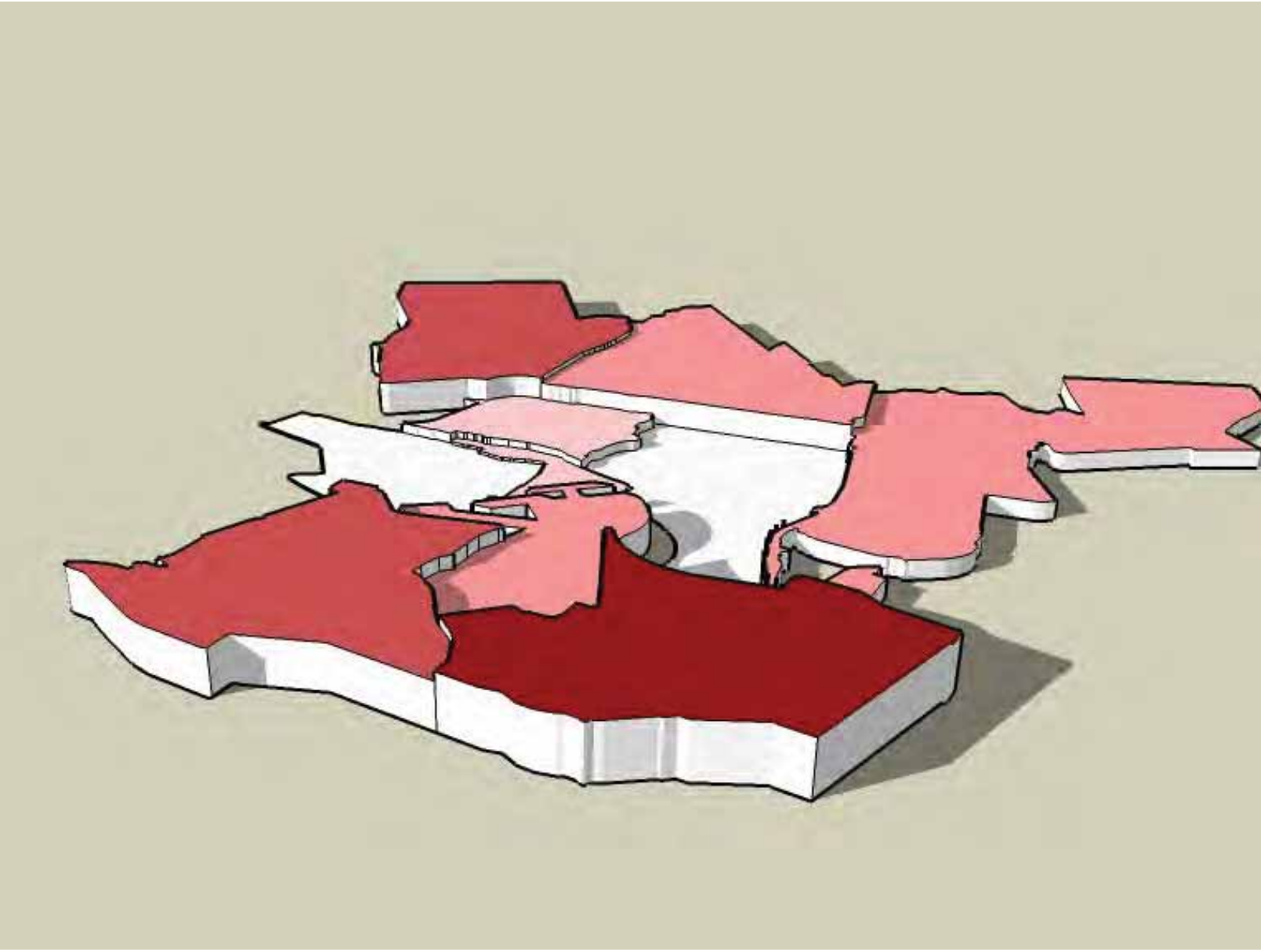
PRIVATE / PUBLIC



Destructive Vandalism 2006

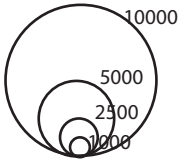
	% People
Stadscentrum	11
Delfshaven	10
Overschie	23
Noord	14
Hillegersberg-Schiebroek	21
Kralingen-Crooswijk	10
Prins Alexander	17
Feijenoord	21
IJsselmonde	29
Charlois	26

PRIVATE / PUBLIC

Housholds

Legend

- one person
- two persons
- two persons (married)
- family with children (not married)
- family with children (married)
- one parent
- rest
- instititutional amount



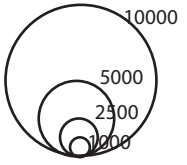
Demography - 1/50000 - Households

SOCIAL NETWORK

Ethnicity (Charlois)

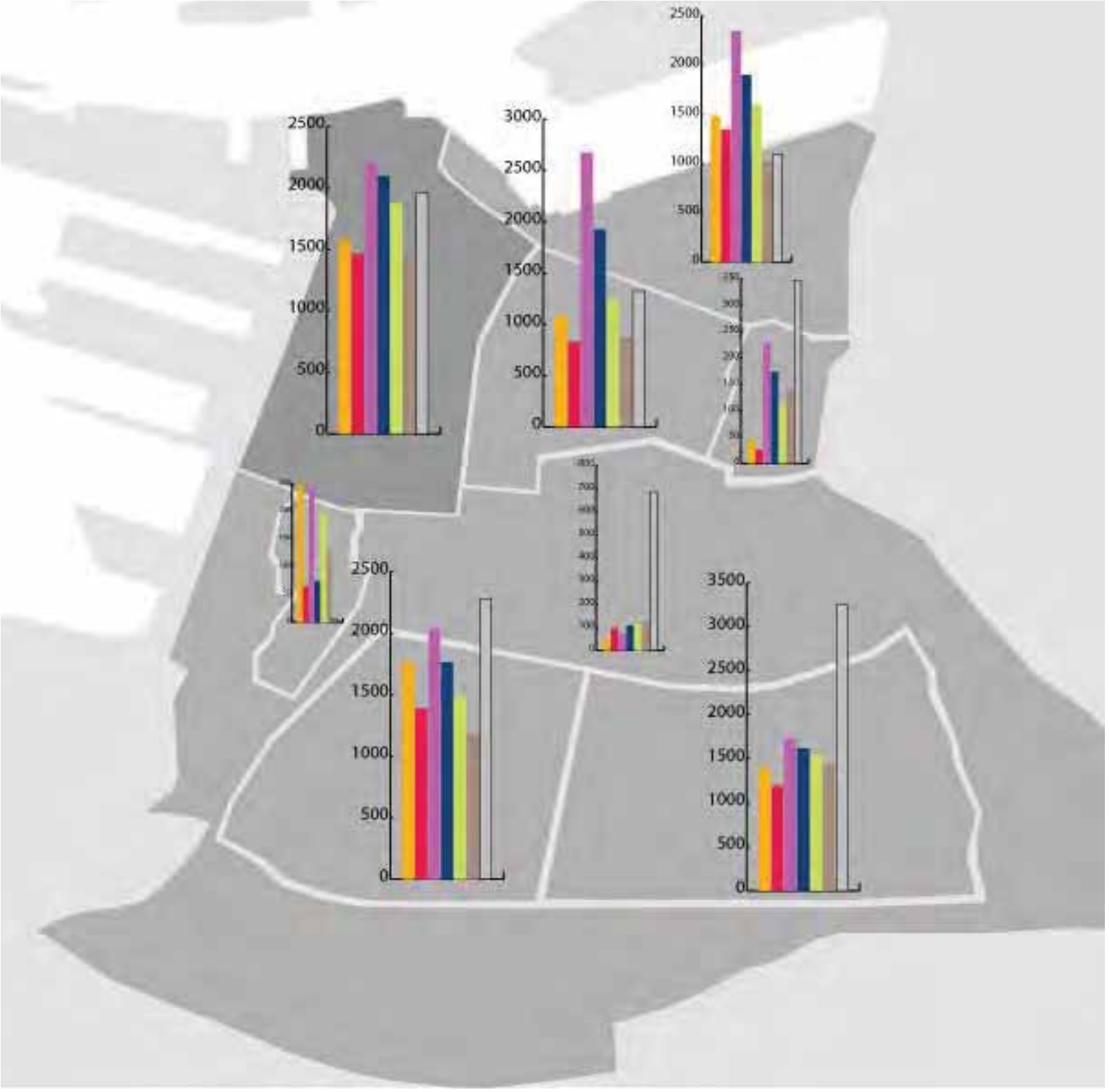
Legend

- Surinamers
- Antillianen
- Kaapverdianen
- Turken
- Marokkanen
- Overig niet-westers
- Autochtonen
- Overige Europese Unie
- Overig westers



Demography - 1/20000 - Ethnicity

SOCIAL NETWORK



Age (Charlois)

Legend

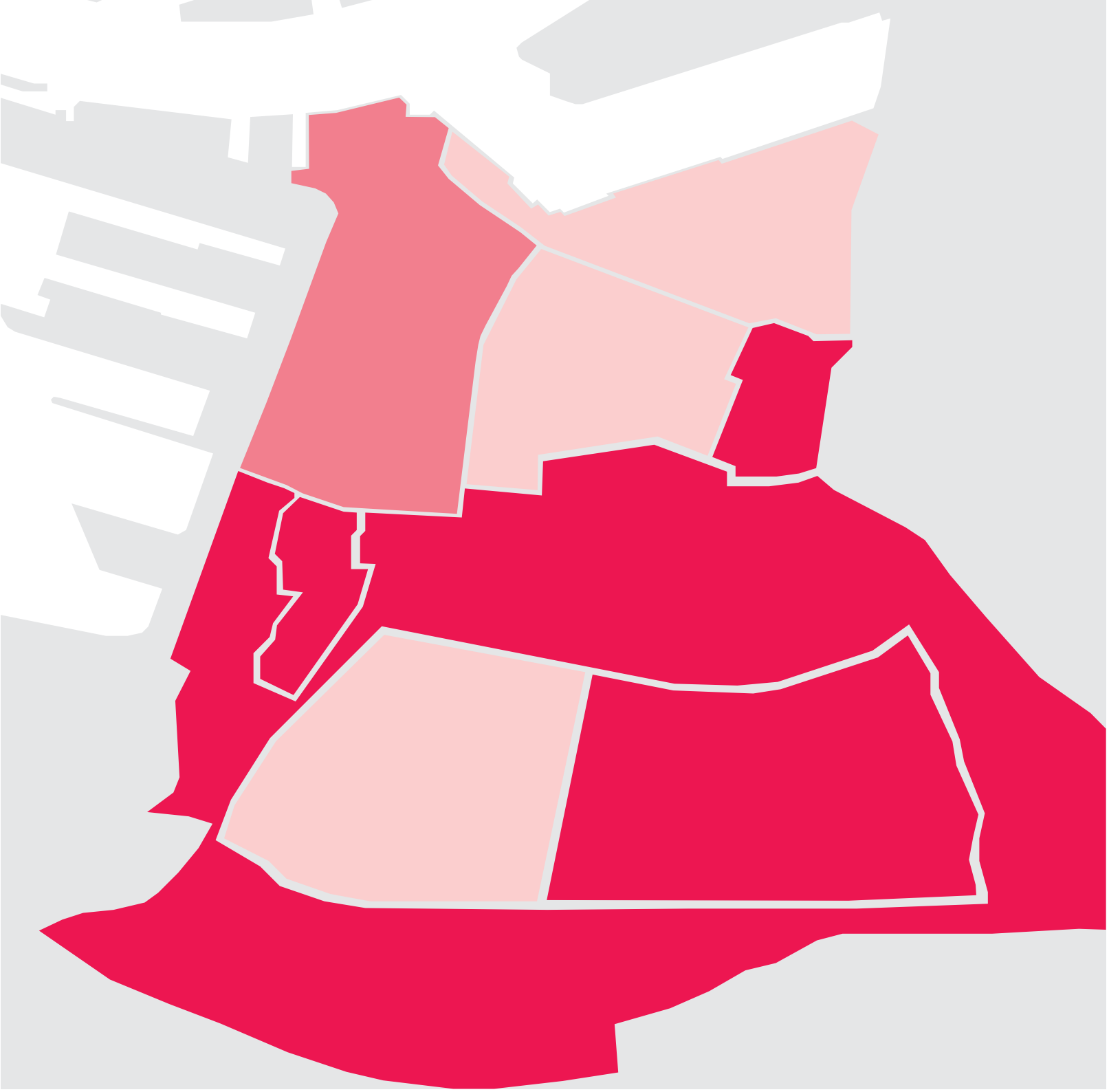
- 0-9
- 10-19
- 20-29
- 30-39
- 40-49
- 50-59
- 60+

Age

	0-14	15-65	65`+
Tarwewijk	2118	7959	721
Carnisse	1448	7551	961
Zuidwijk	1953	7586	2621
Oud-Charlois	2290	8913	1392
Wielewaal	93	621	241
Zuidplein	55	749	264
Pendrecht	2447	7620	1828
Zuiderpark	82	562	606
Heijplaat	287	1056	267

Demography - 1/50000 - Age structure

SOCIAL NETWORK



Facilities

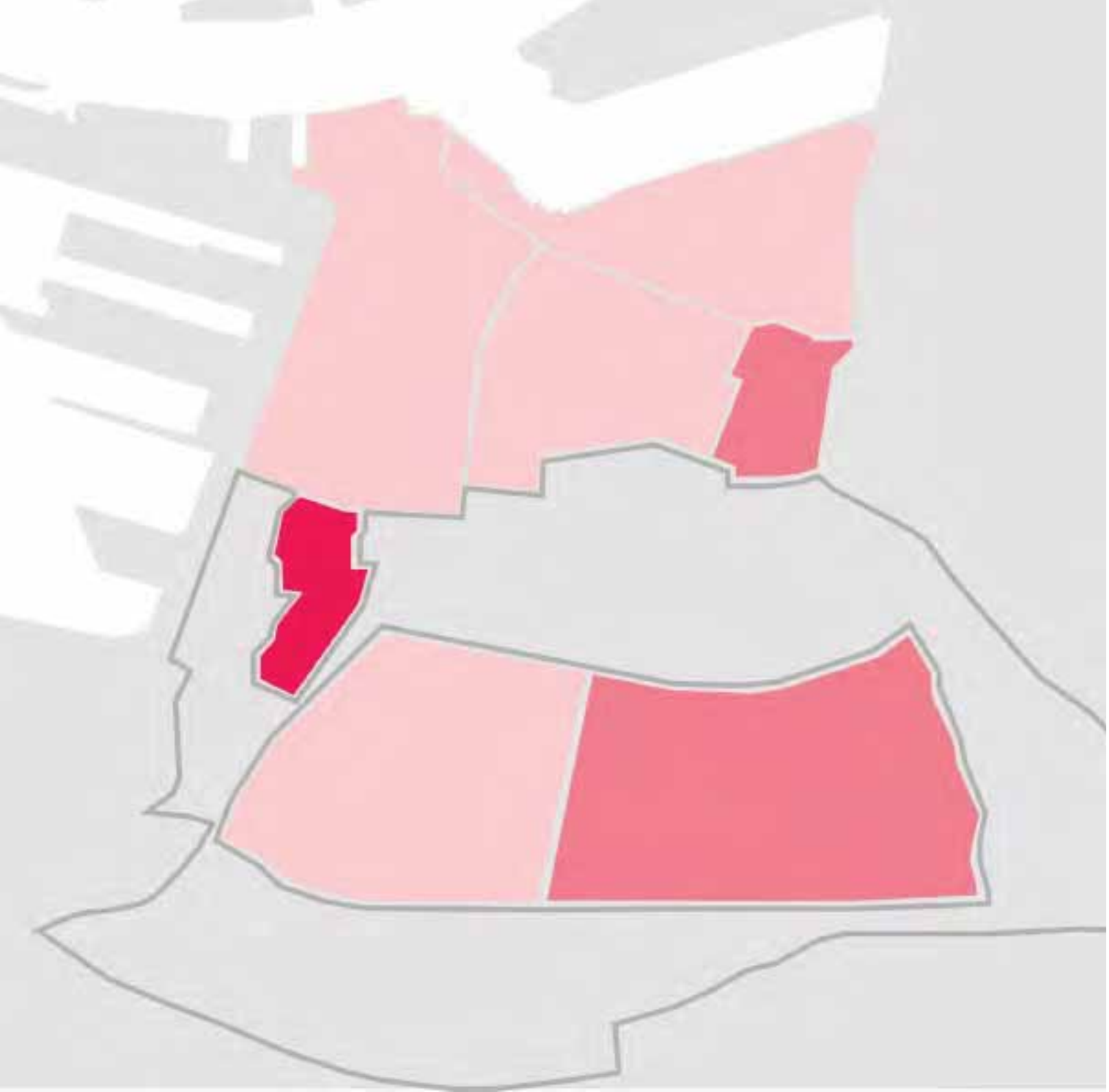
Legend

- Satisfactory rate above 6
- Satisfactory rate between 5.6 and 6
- Satisfactory rate under 5.5

Satisfaction on facilities

	Adequate
Tarwewijk	5,5
Carnisse	5,5
Zuidwijk	6,2
Oud-Charlois	5,9
Wielewaal	6,2
Zuidplein	6,5
Pendrecht	5,4
Zuiderpark	6,5
Heijplaat	4,9
Average Charlois	5,6

Satisfaction on facilities is based on two main aspects; the satisfaction of physical facilities and the reputation and name of social facilities. Both are researched by questionnaires on two sets of different categories of facilities.



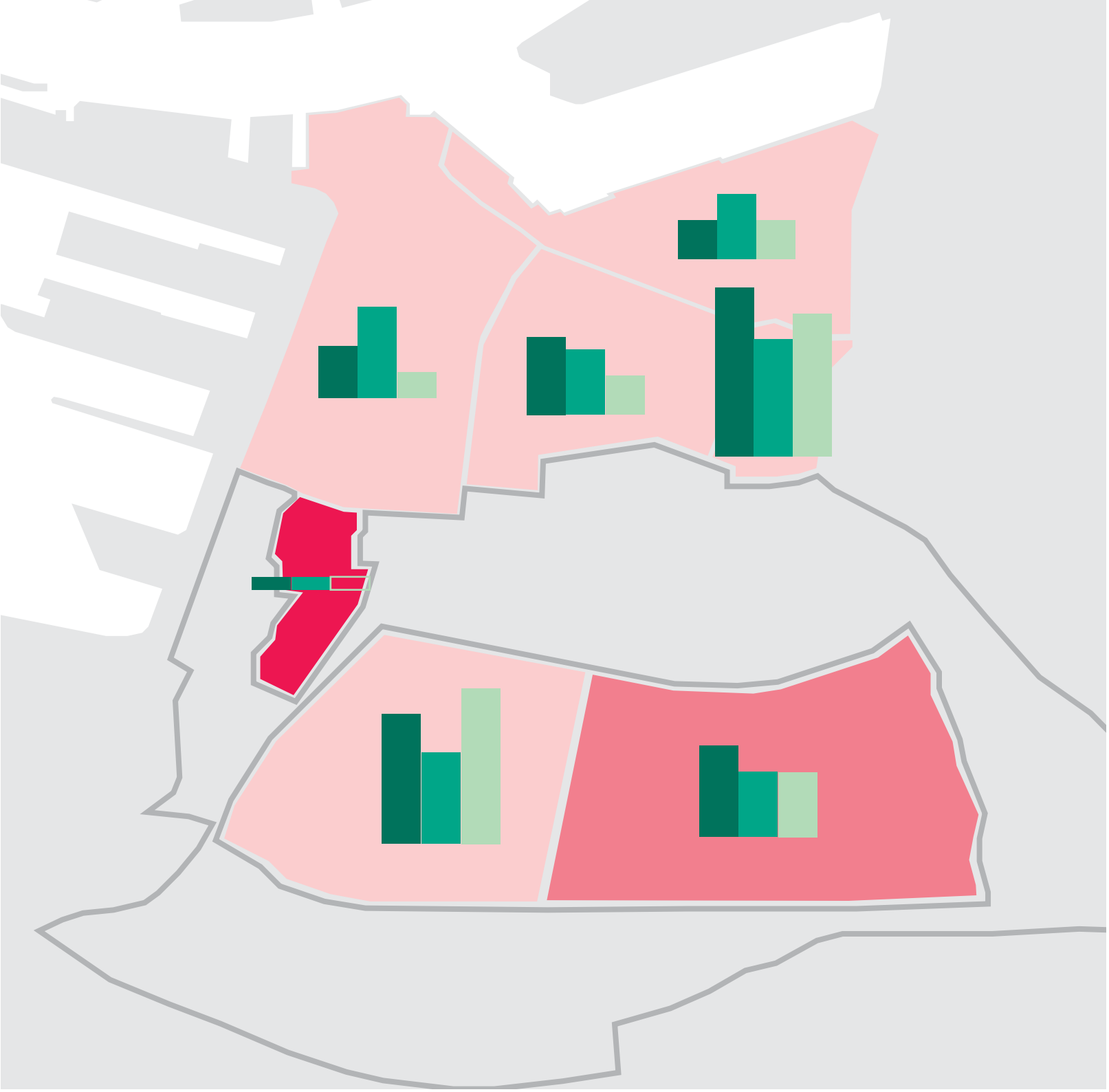
atisfaction

Legend

- high satisfaction level
- medium satisfaction level
- low satisfaction level

atisfaction level district

	% Satisfied
Tarwewijk	
Carnisse	
Zuidwijk	
Oud-Charlois	
Wielewaal	
Zuidplein	
Pendrecht	
Zuiderpark	-
Heijplaat	
Average	



afety inde and violence

Legend

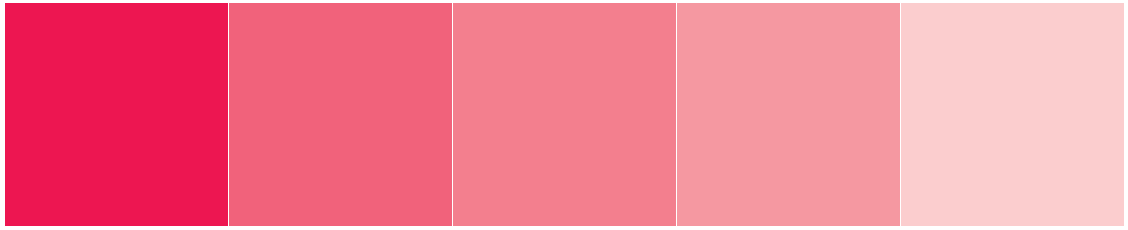
- high safety score
- medium safety score
- low safety score

- violence
- threats
- purse robbery

afety inde

	% Satisfied
Tarwewijk	
Carnisse	
Zuidwijk	
Oud-Charlois	
Wielewaal	
Zuidplein	
Pendrecht	
Zuiderpark	-
Heijplaat	
Average	

Categories



LIVING

Oud-Charlois

Maintenance of public green

Legend

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reen connections

Green space classified regarding their degree of maintenance (refer to the photos).

Public- Oud-Charlois - Green maintenance
Private / Public

Public space evaluation

Legend

- i uality
- pper a era e uality
- o er a era e uality
- oor uality

The final evaluation of public area according to the following items:

- Quality of public green
- Street typology
- location of facilities

Places in need of public space enhance ment are displayed in this diagram (mostly in the western part of the district and near the edges).

Public- Oud-Charlois - Evaluation

Private / Public

Classification of public green

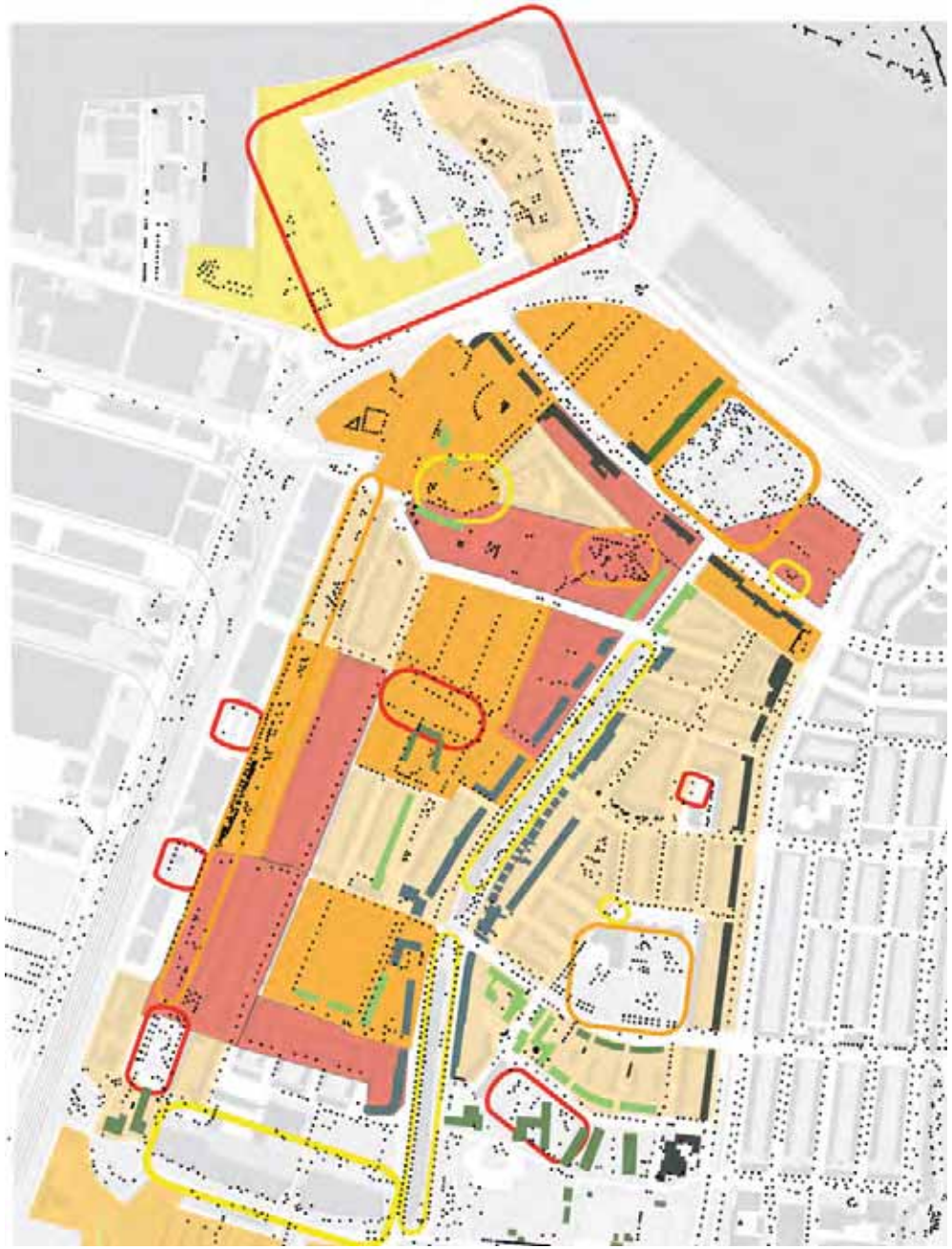
Legend

unctional play roun seat
upporti e aroun buil in s ie
t er bu er le t o er

e t o er bu er reen

Green space classified regarding their degree of maintenance (refer to the photos).

Public- Oud-Charlois - Green classification
Private / Public



Public & private structure

Legend

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o ar s ater
o ar s reen
it in reen

The superposition of street typology, public green and quality of private space. As the color gets more red the public and the private structure worsens.vv

Private/Public- Oud-Charlois - Structure

Private / Public

Public & private structure

Legend

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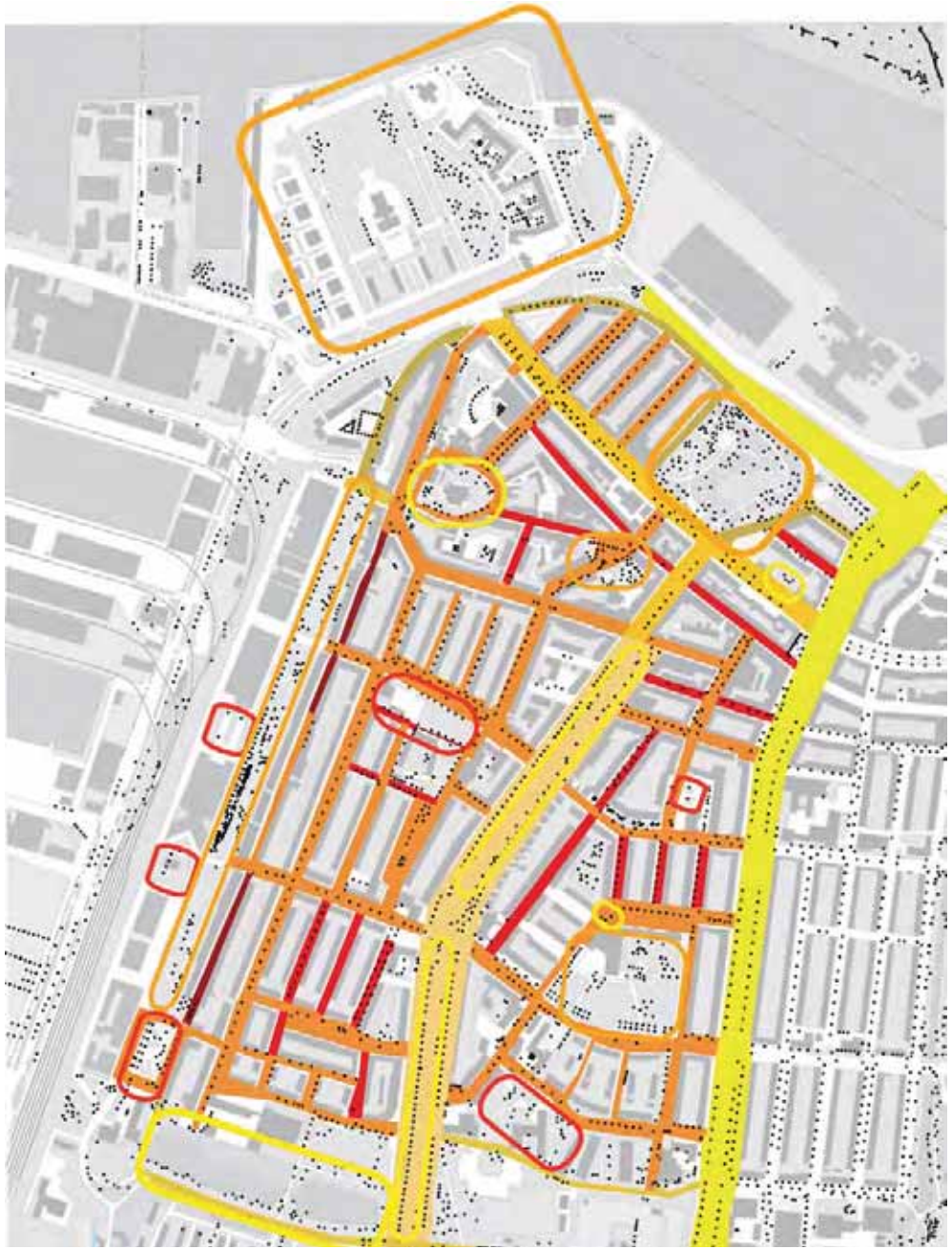
poor

The superposition of street typology, public green and quality of private space. As the color gets more red the public and the private structure worsens.vv

Private/Public- Oud-Charlois - Structure

Private / Public



Public quality :
public green + streets

Legend

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oorly aintaine

The superposition of street typology and public green : as the color gets more red the public structure gets weaker.

Public green & landmarks

Legend

ublic reen

ell aintaine
era e
oorly aintaine

an ar s

Location of landmarks in relationship to the quality of public green: the land marks are in direct relationship to high quality public green.

Public- Oud-Charlois - Green and landmarks
Private / Public

Maintenance of public green

Legend

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upporti e aroun buil in s ie
t er bu er le t o er

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era e
oorly aintaine

Green space classified regarding their degree of maintenance (refer to the photos).

Classification of public green

Legend

unctional
upporti e
t er

The classification of public green space according to "Functional" (as in playgrounds, sitting spaces...) "Supportive" (where the green is used to create a pleasant atmostphere/view for buildings around or within it) and "Other" (which would be the buffer green or the left-over spaces which have been turned into green).

Public- Oud-Charlois - Green classification

Private / Public

treet typology

Legend

- ype
- ype
- ype
- ype
- ype
- ype
- ype
- ype

Public- Oud-Charlois - Street typology

Private / Public

Landmarks

Legend

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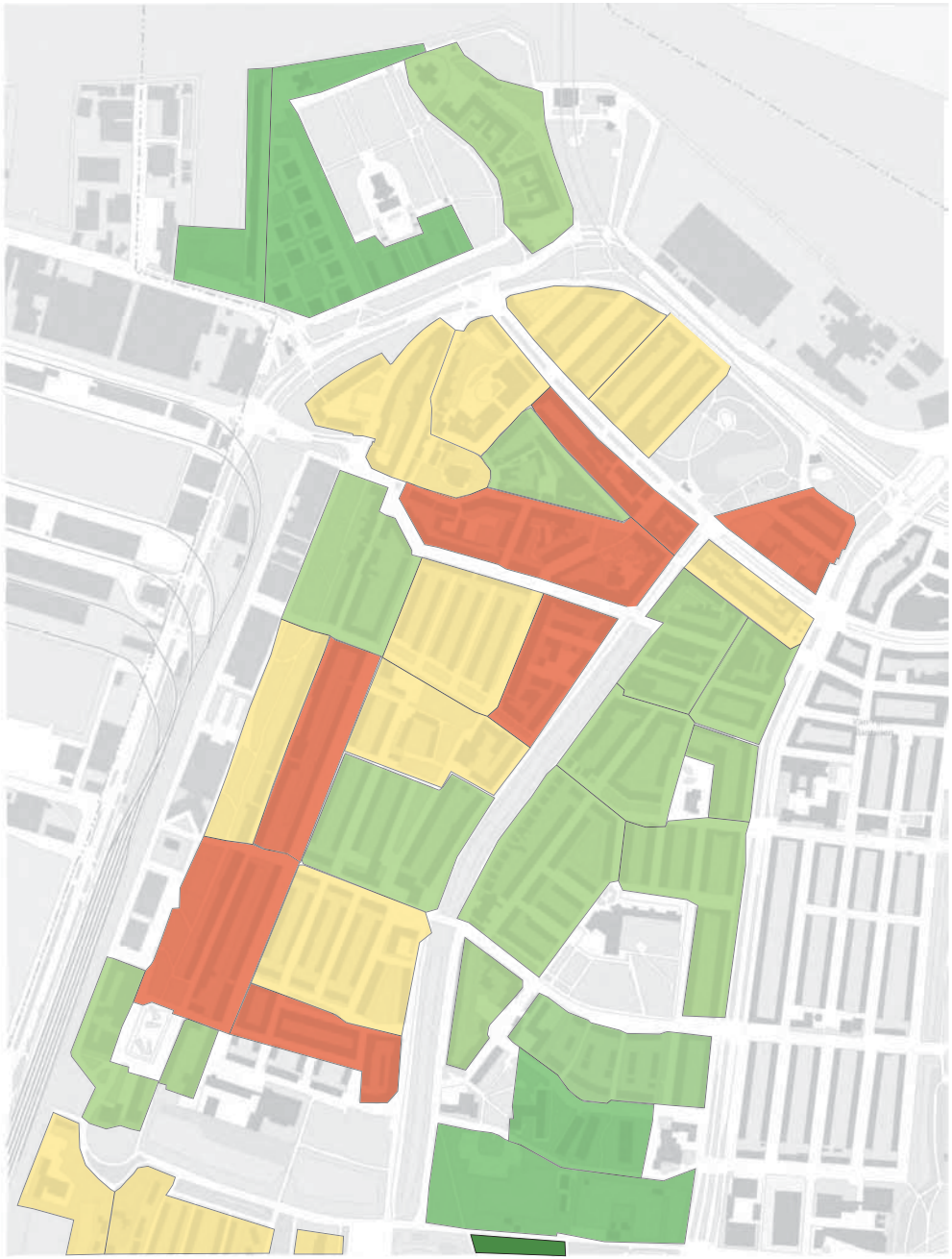
Public - private - Charlois - Landmarks

PUBLIC / PRIVATE



Private quality

Legend

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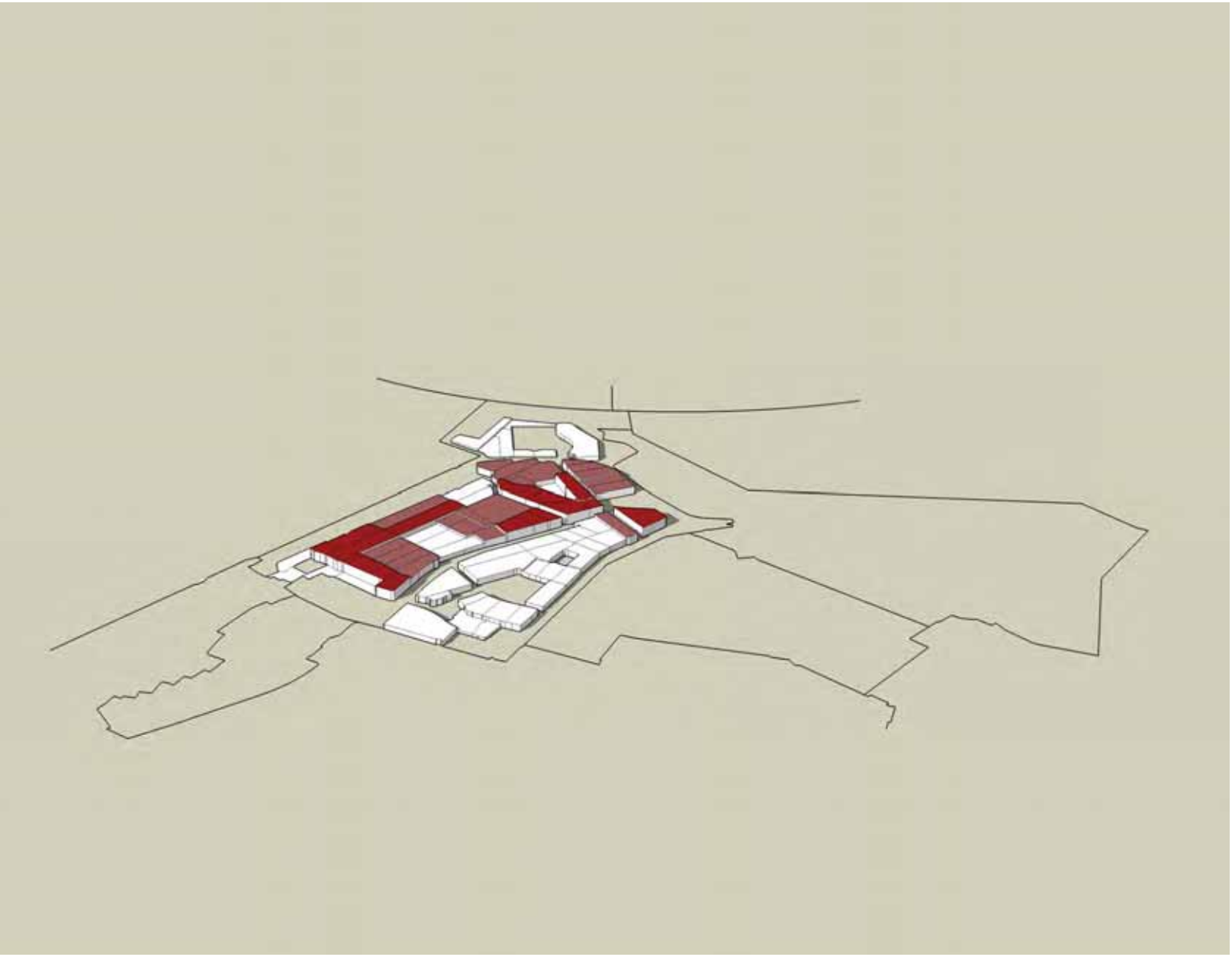

Private conditions

Legend

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orst

Combined conditions

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Neighbourhood fights

a ily ousin

er populate ellin s

iolence

alue

Private conditions

Legend

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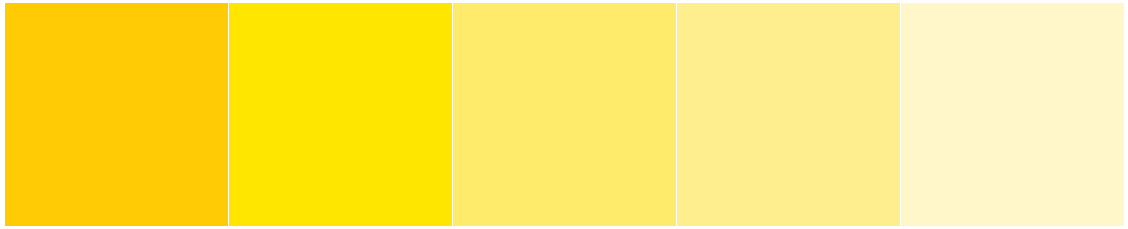
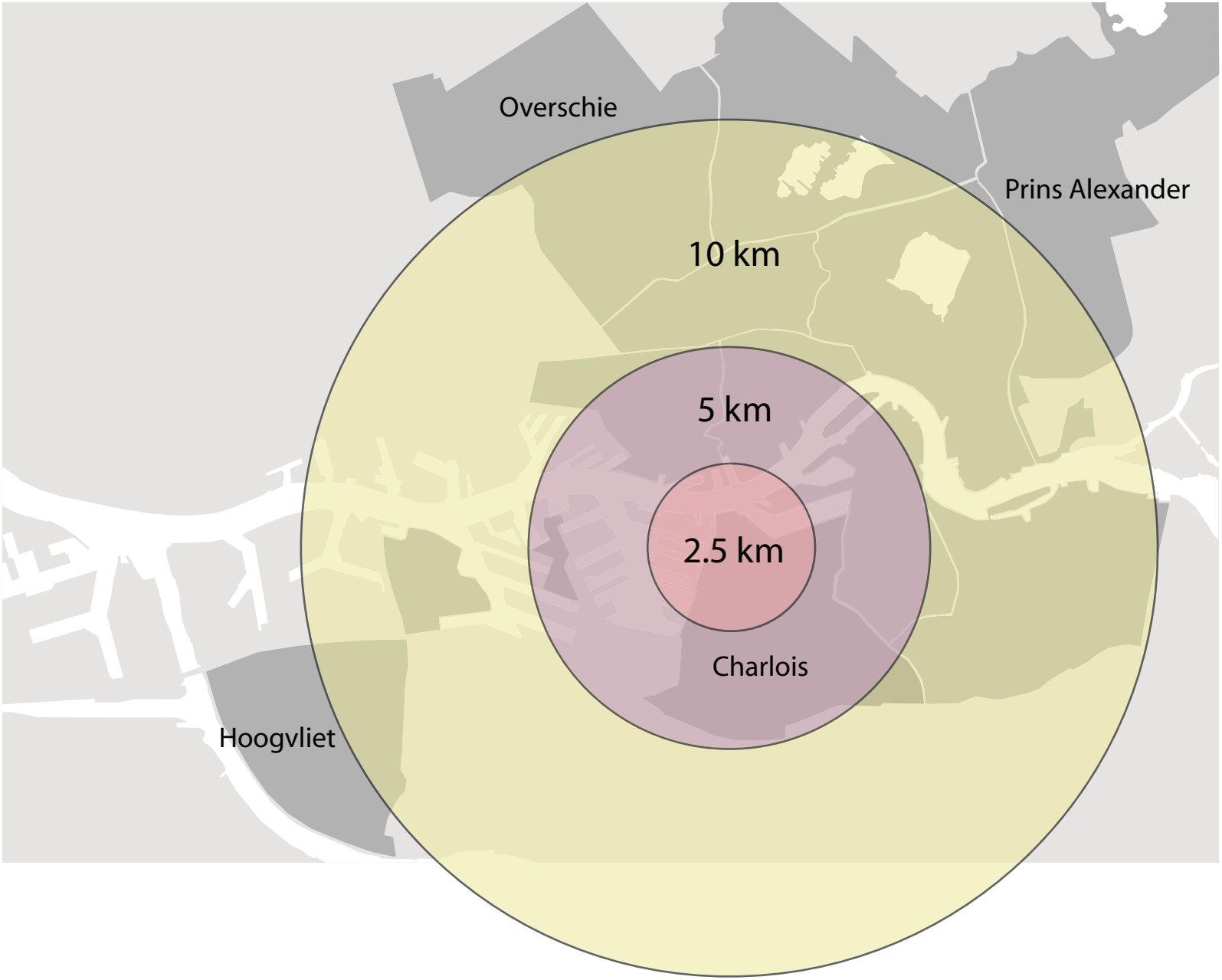


WORK & INCOME

Rotterdam



Mobility motivation

Legend

- 10 km; Rotterdam and periphery
- 5 km; Bigger districtzone
- 2,5 km; Neighborhood and district

Displacements per day

	Charlois
< 5 km	1,4
5 - 14 km	0,6
15 - 29 km	0,2
>= 30 km	0,2

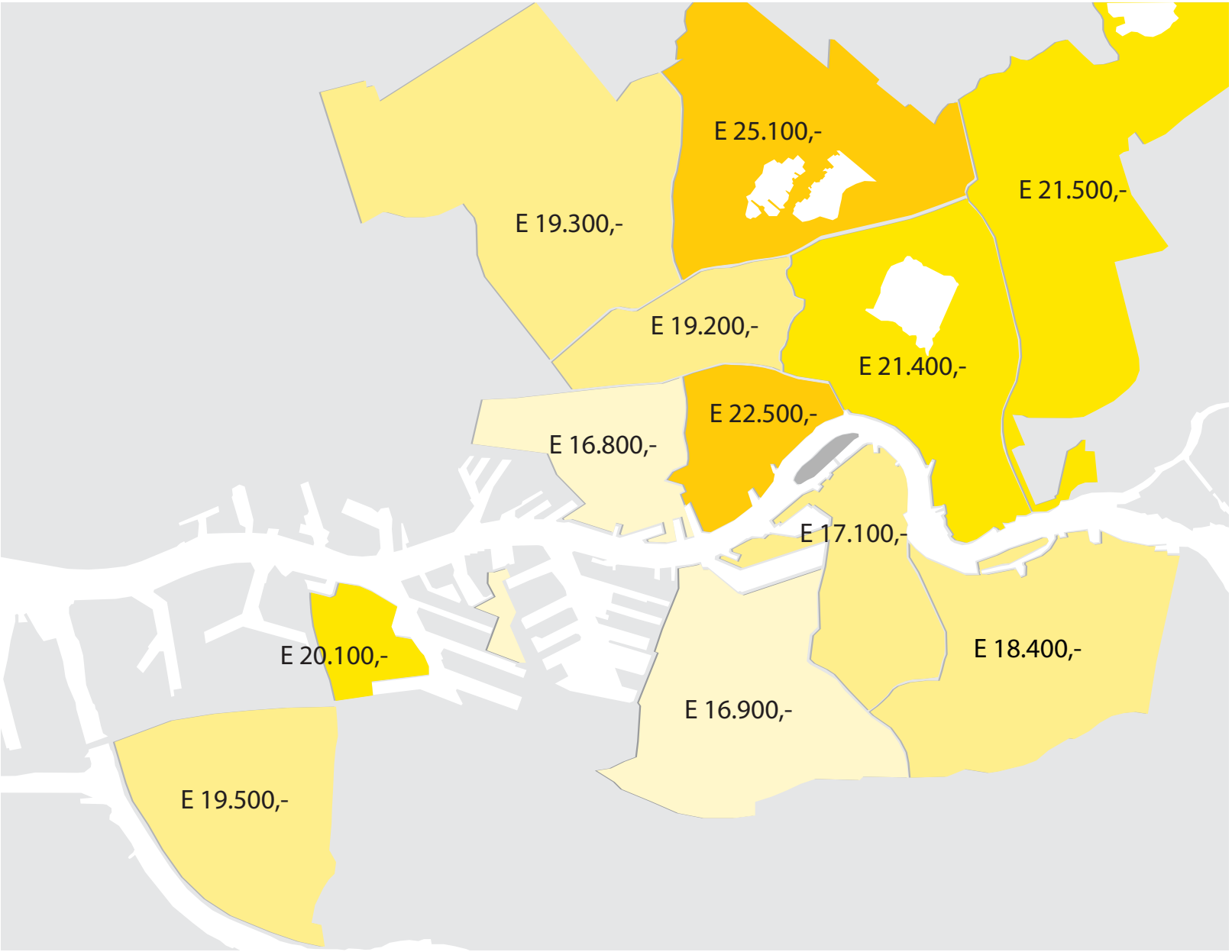
Distance in km

	Charlois
Week	19,8
Weekend	4,1

30 % of the inhabitants of Oud-Charlois work in the harbour or the periphery of Rotterdam.

'Going to work' is the most important reason for the people from Oud-Charlois to travel further than 10 km outside the neighborhood.

Besides going to work, the inhabitants of Oud-Charlois don't travel to far away.



Income

Legend

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belo a era e
uc belo a era e

Income

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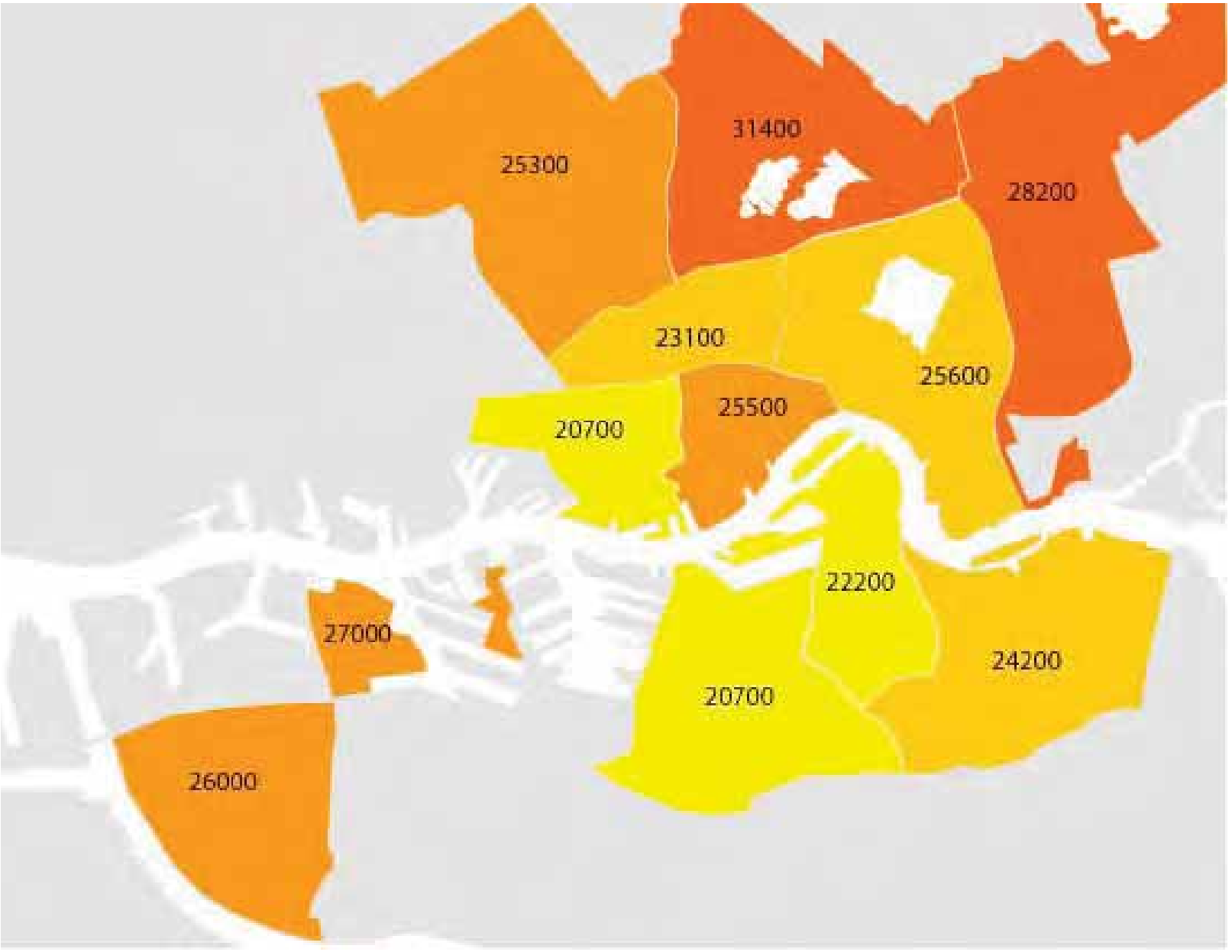


Income

Legend

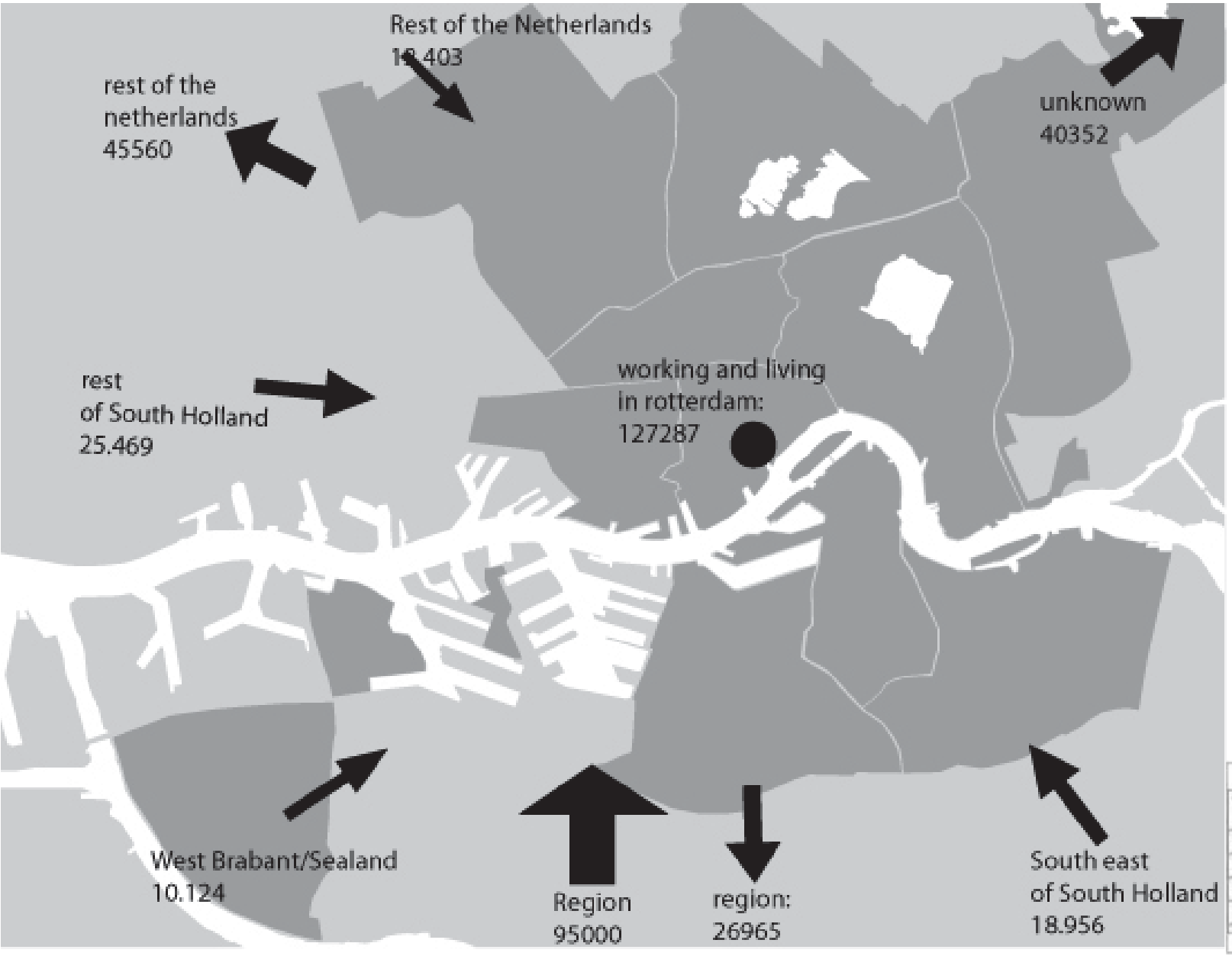
- -23000
- 23000-25000
- 26000-28000
- +28000

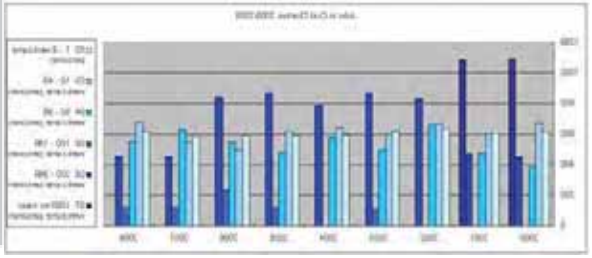
maximal dispossible Income

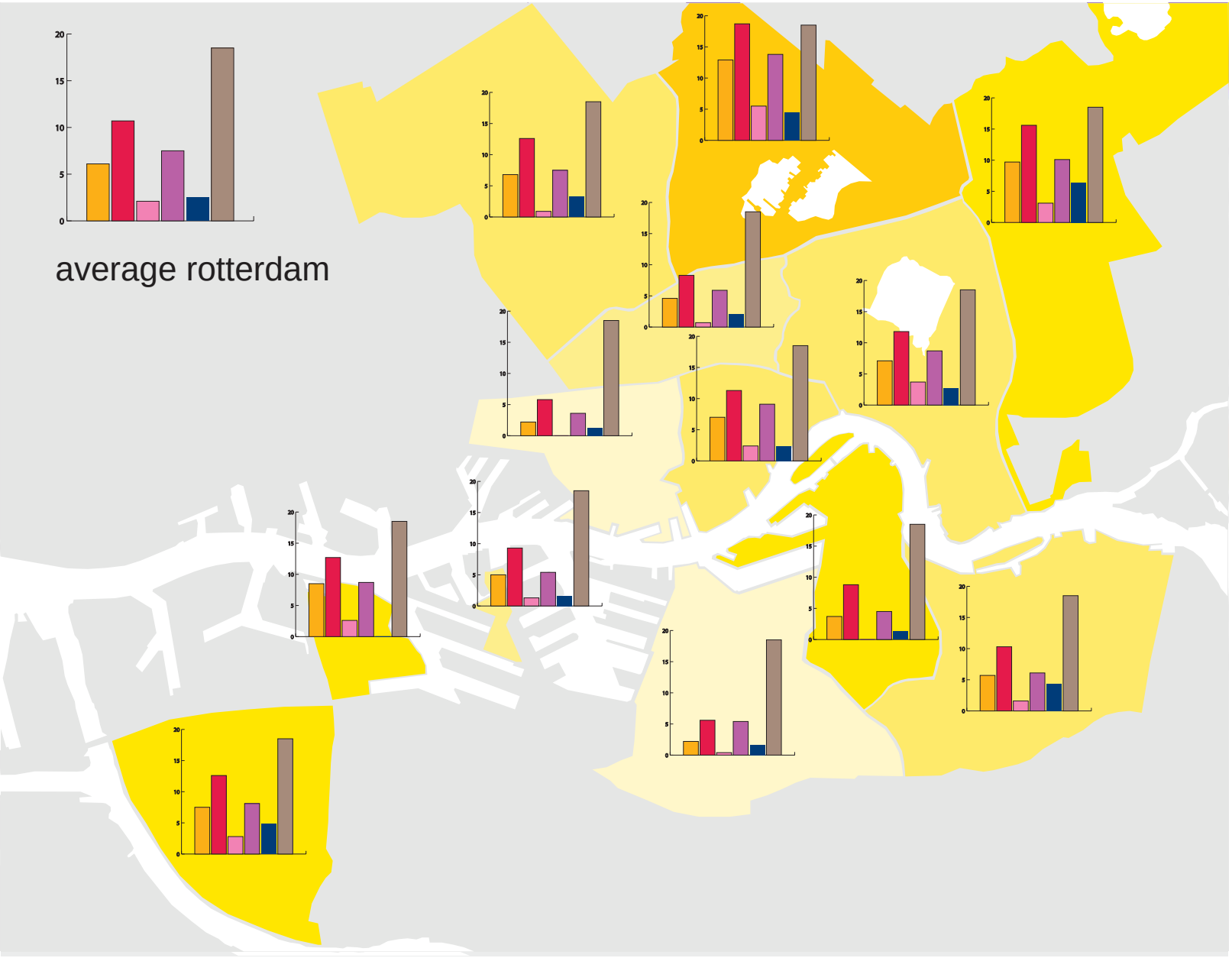
	income euro´s
Stadscentrum	25500
Delfshaven	20700
Overschie	25300
Noord	23100
Hillegersberg-Schiebroek	31400
Kralingen-Crooswijk	25600
Prins Alexander	28200
Feijenoord	22200
IJsselmonde	24200
Charlois	20700
Pernis	27000
Hoogvliet	2600
Hoek van Holland	29200

Commuting

Commuting from and to Rotterdam







Average Income

Legend

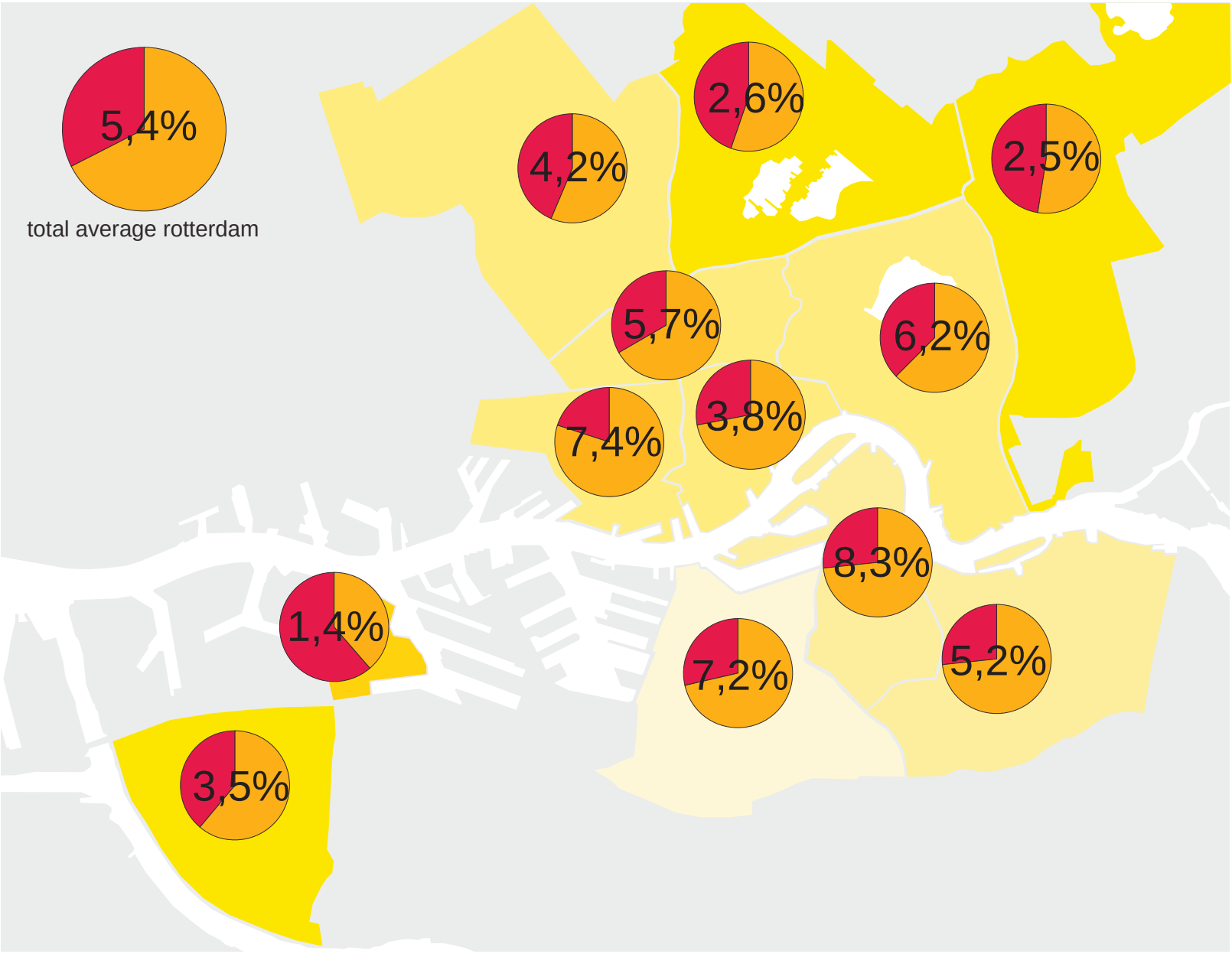
average income	> € 18500
working class	> € 18500
pension	> € 18500
dutch nationality	> € 18500
foreign nationality	> € 18500
maximum	= € 37000

capacity index

> 7.1	strong
6.0 - 7.0	sufficient
5.0 - 5.9	vulnerable
4.0 - 4.9	problematic
< 3.9	very weak

Table

Rotterdam	24600	29200	20600	26000	21000
	total average	working class	pension	dutch bitch	foreign pimp
Stadscentrum	25500	29800	20900	27600	20900
Delfshaven	20700	24300	17800	22100	19800
Overschie	25300	31100	19400	26000	21700
Noord	23100	26800	19200	24400	20600
Hillegersberg-Schieb.	31400	37200	24000	32300	23000
Kralingen-Crooswijk	25600	30300	22200	27200	21200
Prins Alexander	28200	34100	21600	28600	24900
Feijenoord	22200	27300	18200	23000	20800
IJsselmonde	24200	28800	20100	24600	22900
Charlois	20700	24100	18900	21600	19200
Pernis	27000	31200	21100	27200	24000
Hoogvliet	26000	31100	21300	26600	23300



Unemployment
per ethnicity

Legend

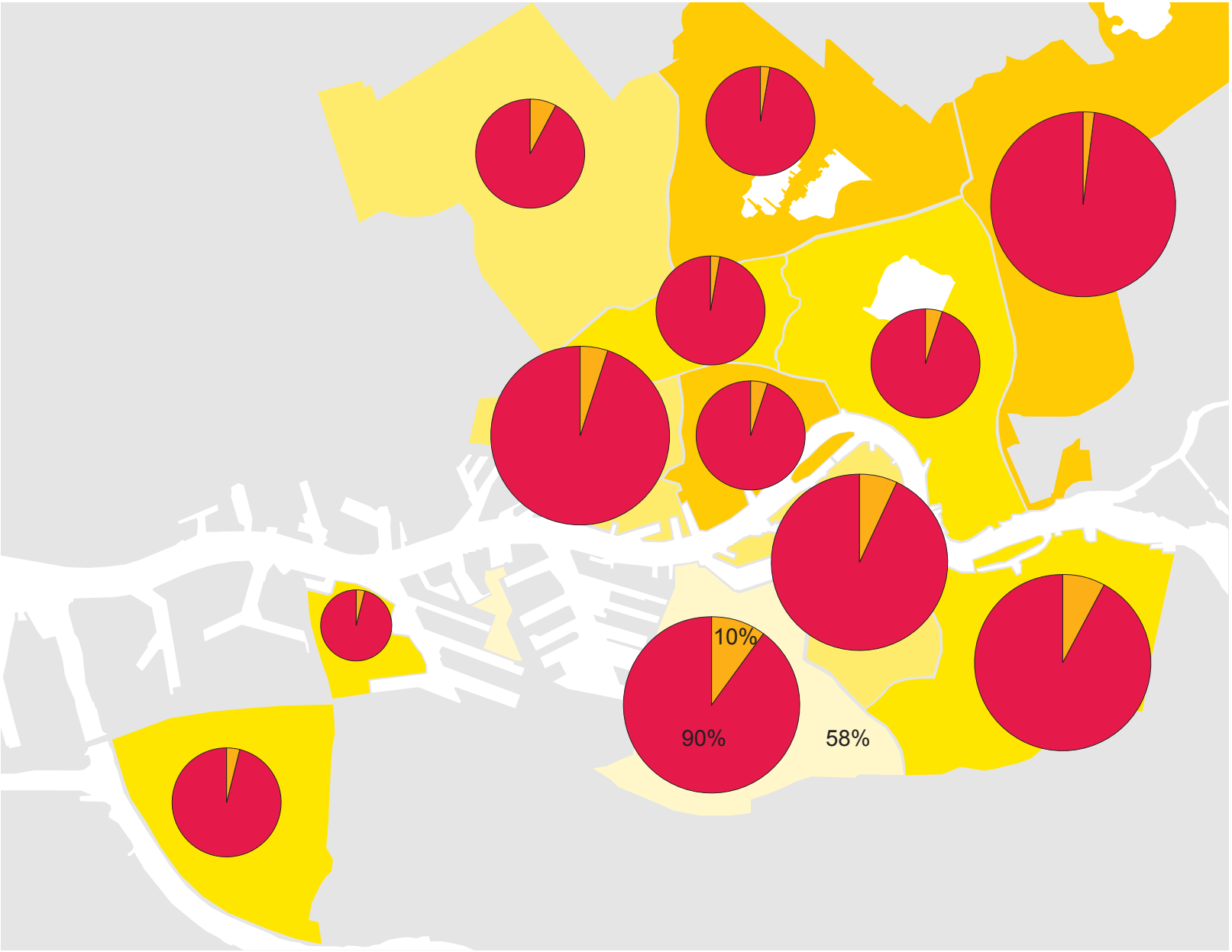
foreign nationality
dutch nationality

% unemployed inhabitants

index participation - work / education
> 7.1 strong
6.0 - 7.0 sufficient
5.0 - 5.9 vulnerable
4.0 - 4.9 problematic
< 3.9 very weak

Table

Rotterdam	31531	10205	21326
	total unemployed	dutch nationality	foreign nationality
Stadscentrum	1553	432	1121
Delfshaven	5154	1021	4133
Overschie	662	288	374
Noord	2795	930	1865
Hillegersberg-Schiebroek	1068	466	592
Kralingen-Crooswijk	3070	1147	1923
Prins Alexander	2268	1073	1195
Feijenoord	5699	1513	4186
IJsselmonde	3019	1085	1934
Charlois	4463	1273	3190
Pernis	67	41	26
Hoogvliet	1210	469	741



Employment

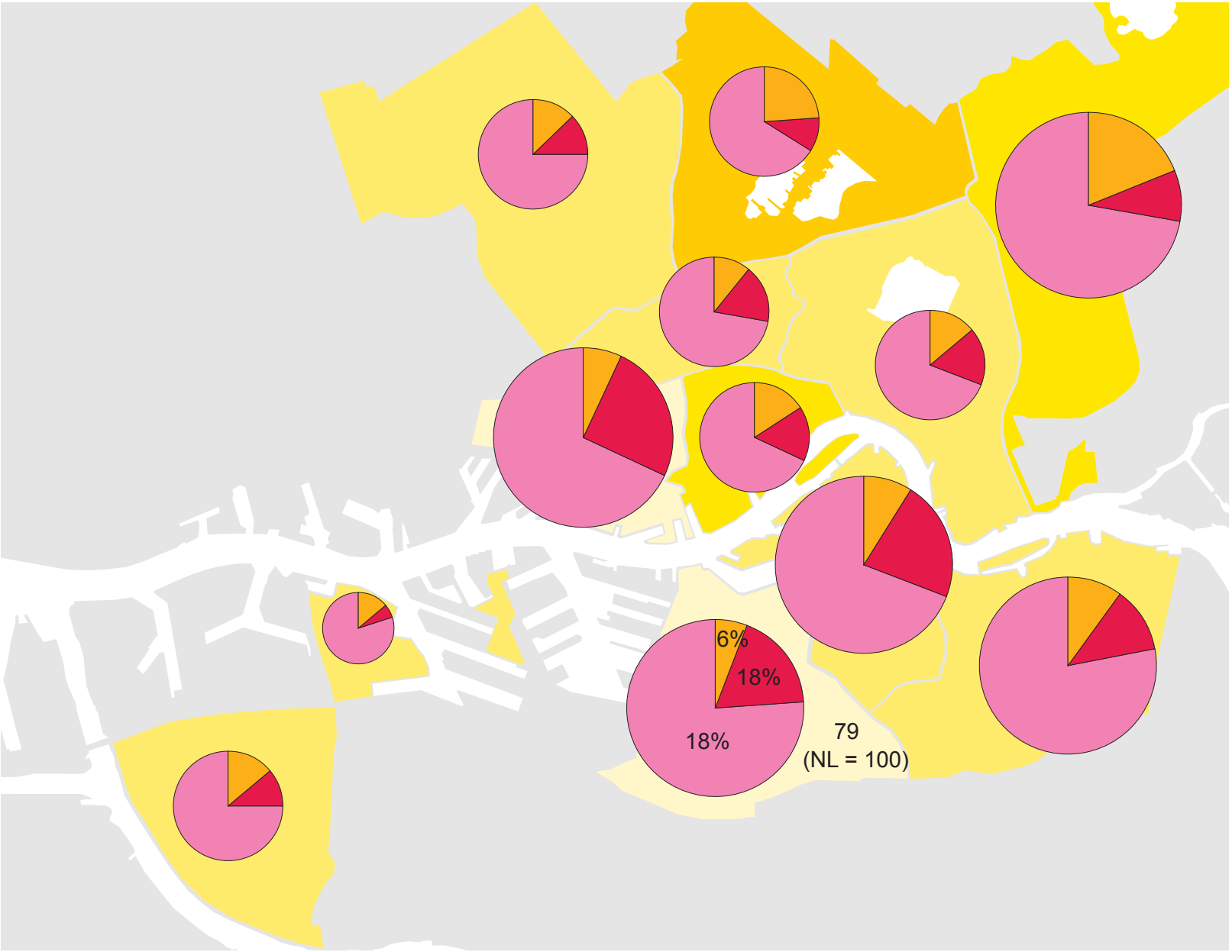
Legend

% unemployment
% employment

Participation workforce
high participation workforce (72-75%)
medium participation workforce (61-66%)
low participation workforce (45-58%)
very low participation workforce (58%)

Employment

	% unemployment	% no participation
Stadscentrum	5	75
Delfshaven	5	58
Overschie	8	54
Noord	3	66
Hillegersberg-Schiebroek	3	70
Kralingen-Crooswijk	5	63
Prins Alexander	2	72
Feijenoord	7	45
IJsselmonde	8	61
Charlois	10	58
Pernis	4	69
Hoogvliet	4	60
Hoek van Holland	x	x



Income

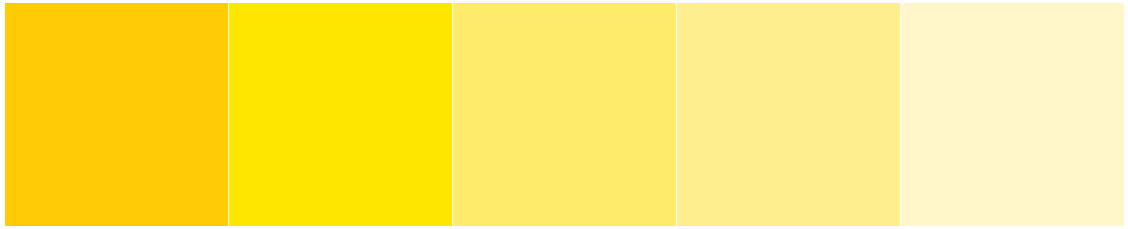
Legend

% high income households
% low income households
% average

Income
above Dutch average
Dutch average
under Dutch average
far under Dutch average

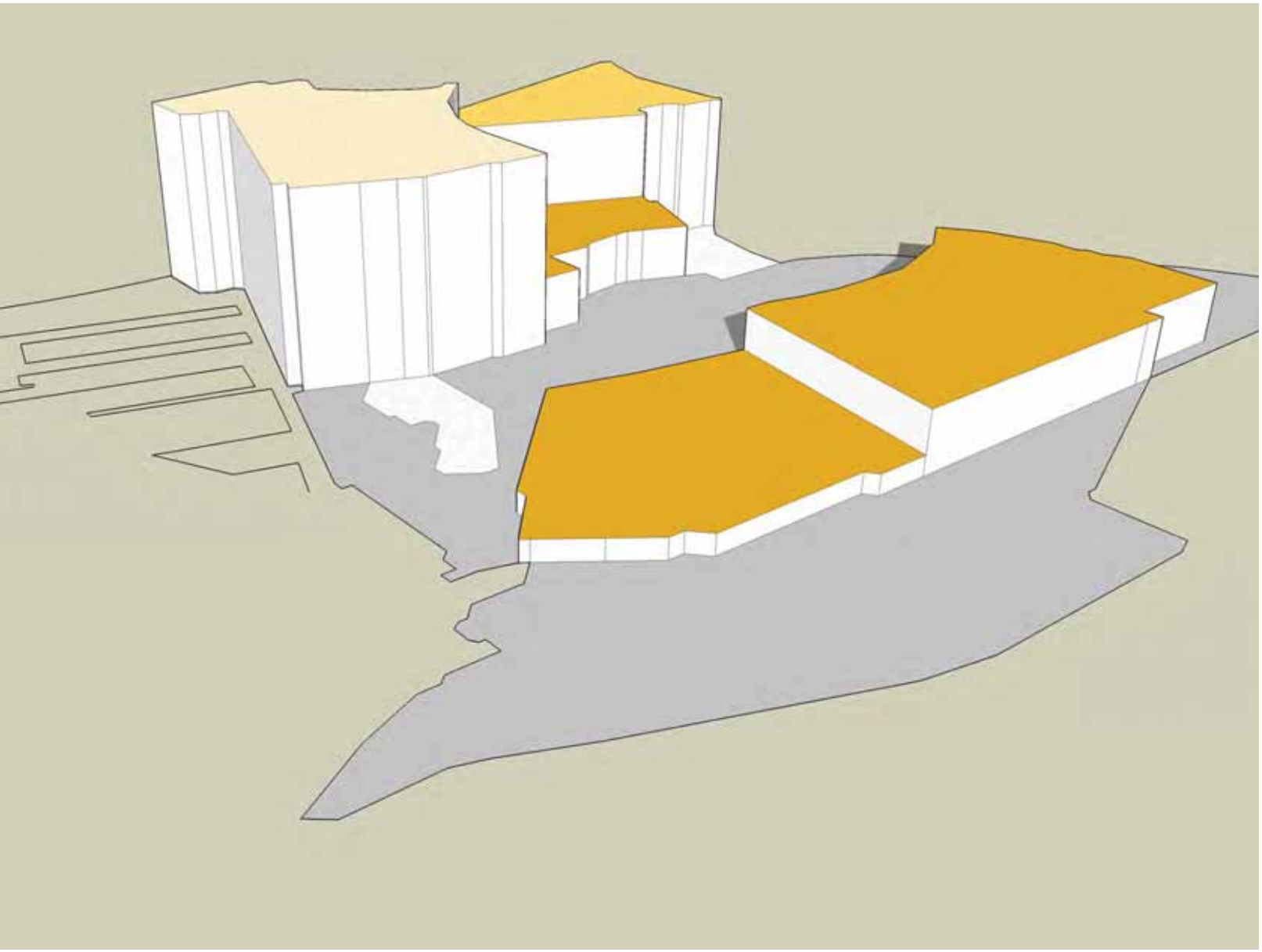
Deviation in income

	Standardized	Above	Below
Stadscentrum	103	16	16
Delfshaven	76	7	25
Overschie	90	13	12
Noord	90	11	17
Hillegersberg-Schiebroek	112	24	10
Kralingen-Crooswijk	97	14	17
Prins Alexander	100	19	9
Feijenoord	80	9	22
IJsselmonde	88	10	12
Charlois	79	6	18
Pernis	96	14	6
Hoogvliet	91	14	11
Hoek van Holland	102	19	8



WORK & INCOME

Charlois



Work

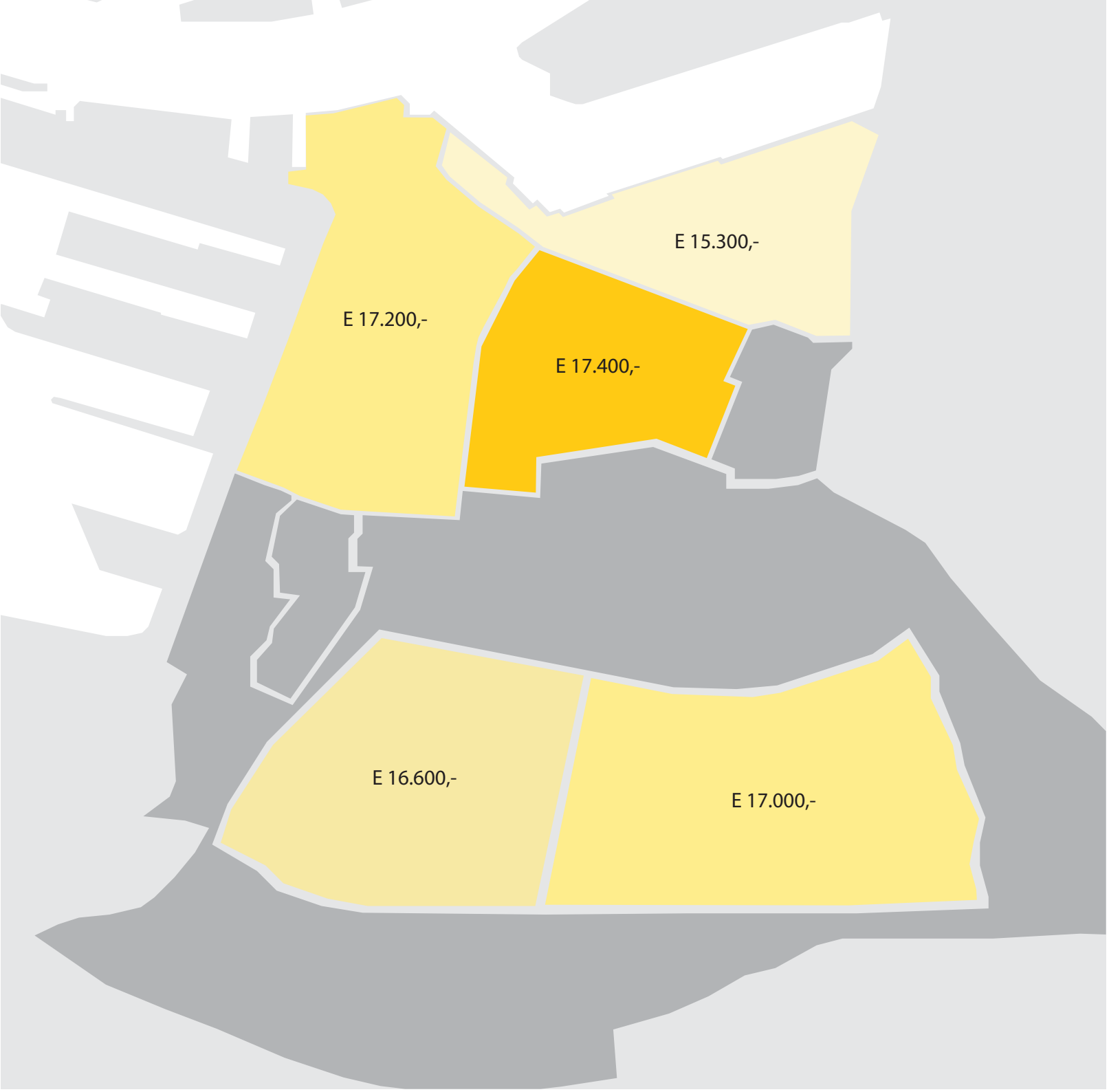
Satisfied with district

	Jobs	inhabitants
Tarwewijk	2126	12018
Carnisse	1367	10610
Oud-Charlois	2599	13176
Zuidwijk	1763	13449
Pendrecht	1367	12415

	job/inh. (x100)	companies
Tarwewijk	17,7	237
Carnisse	12,9	286
Oud-Charlois	19,7	302
Zuidwijk	13,1	244
Pendrecht	11,0	176

Number of jobs

arlois as because o its location alon t e arbor a lar e a ount o obs co paire to t e suroun in nei bour oo s



Income

Legend

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belo a era e
uc belo a era e

Income

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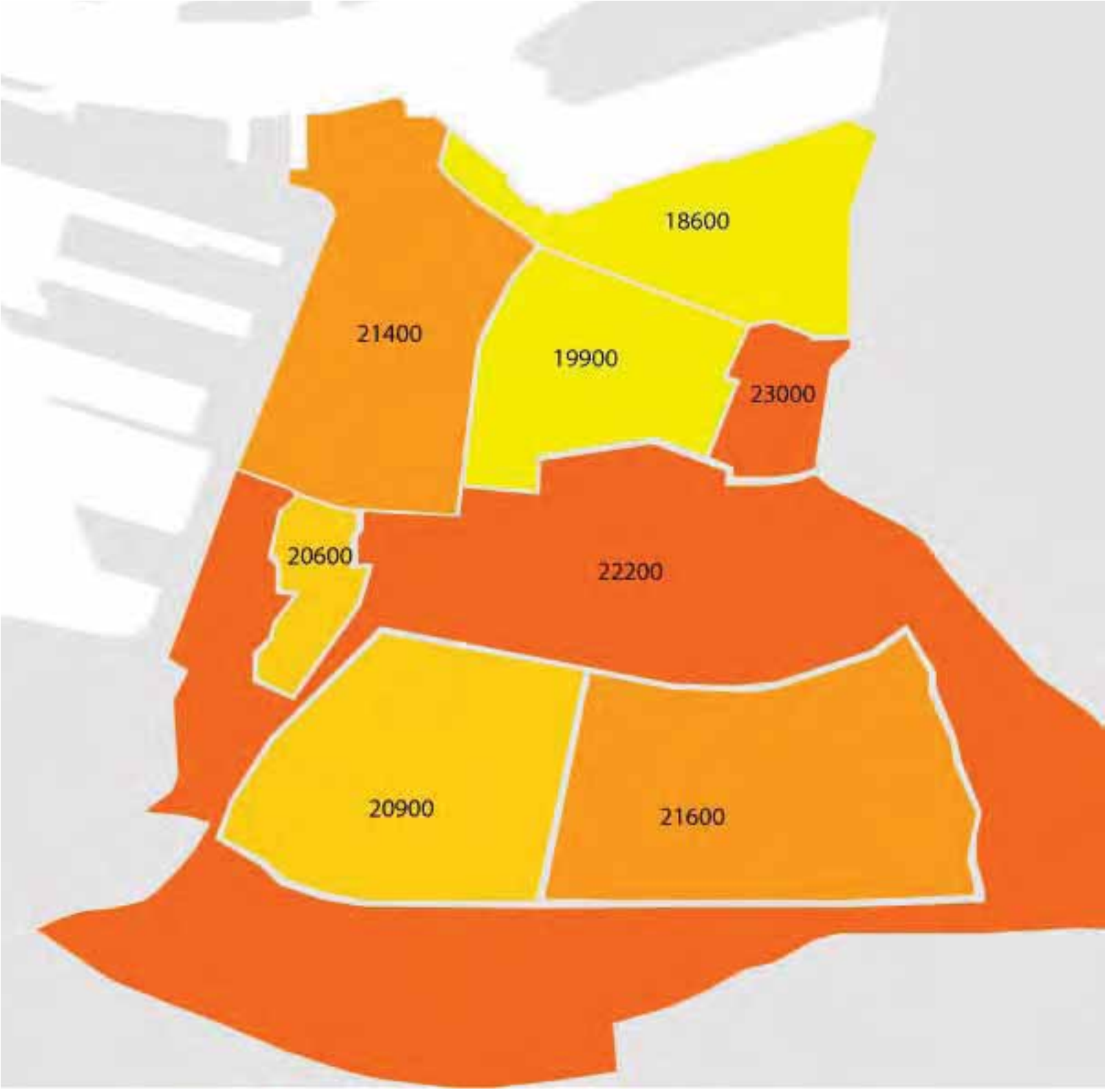


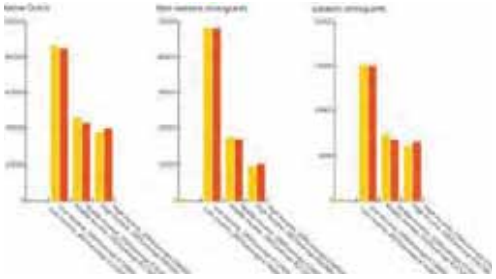
Income

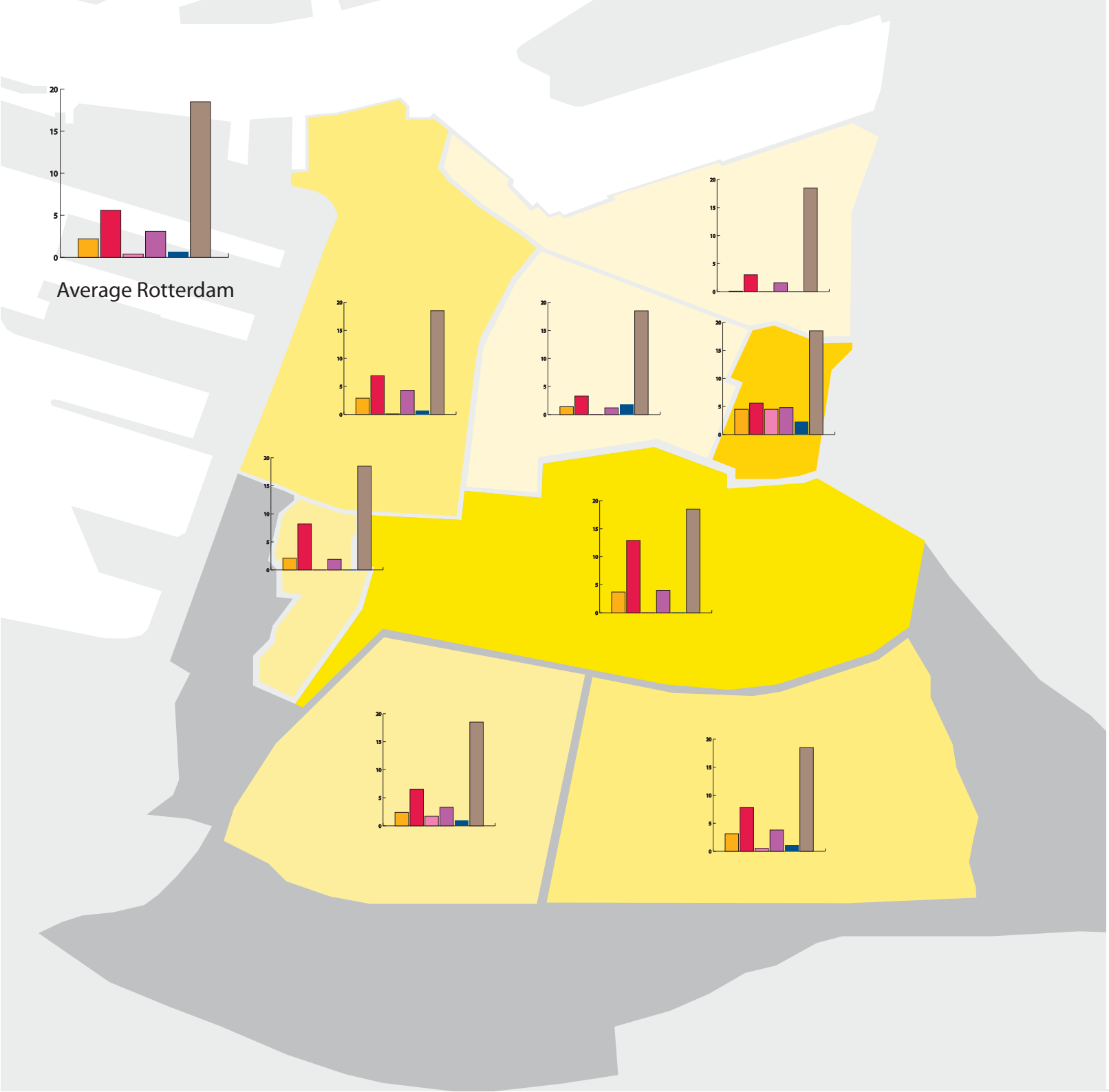
Legend

- -20000
- 20000-21000
- 21000-22000
- +22000

maximal dispossible Income

	income euro´s
Tarwewijk	18600
Carnisse	19900
Zuidwijk	21600
Oud-Charlois	21400
Wielewaal	20600
Zuidplein	23000
Pendrecht	20900
Zuiderpark	22200
Heijplaat	23500
Average	20700





Average Income

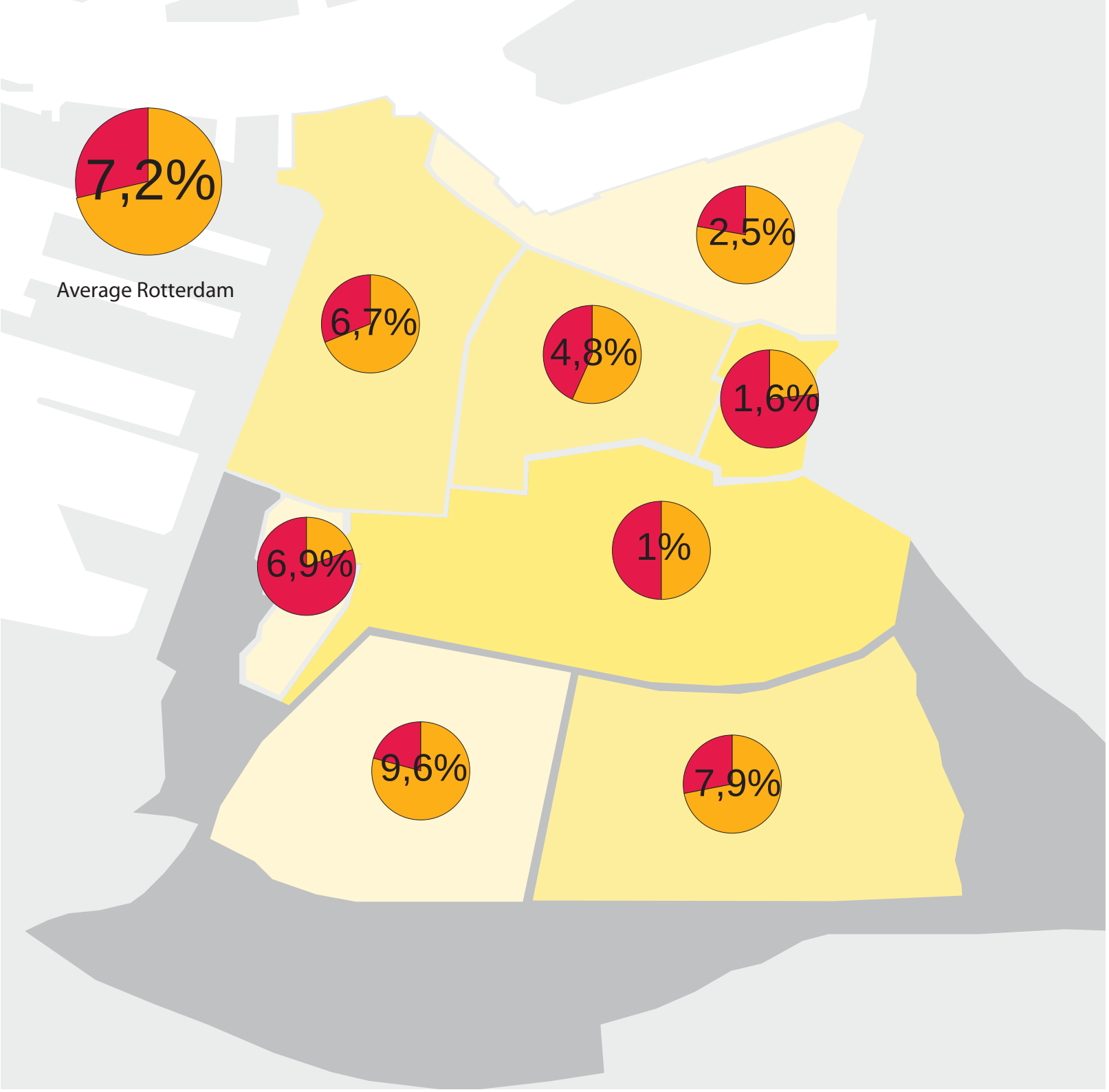
Legend

	average income	> € 18500
	working class	> € 18500
	pension	> € 18500
	dutch nationality	> € 18500
	foreign nationality	> € 18500
	maximum	= € 37000

capacity index	
> 7.1	strong
6.0 - 7.0	sufficient
5.0 - 5.9	vulnerable
4.0 - 4.9	problematic
< 3.9	very weak

Table

Charlois	20700	41000	18900	21600	19200
	total average	working class	pension	dutch bitch	foreign pimp
Tarwewijk	18600	21500	17200	20100	18000
Carnisse	19900	21800	18200	19700	20300
Zuidwijk	21600	26300	19000	22300	19600
Oud-Charlois	21400	25400	18600	22800	19200
Wielewaal	20600	26700	17100	20400	18500
Zuidplein	23000	24100	23000	23300	20800
Pendrecht	20900	25000	20200	21800	19400
Zuiderpark	22200	31400	16800	22500	20800



Unemployment
per ethnicity

Legend

foreign nationality
dutch nationality

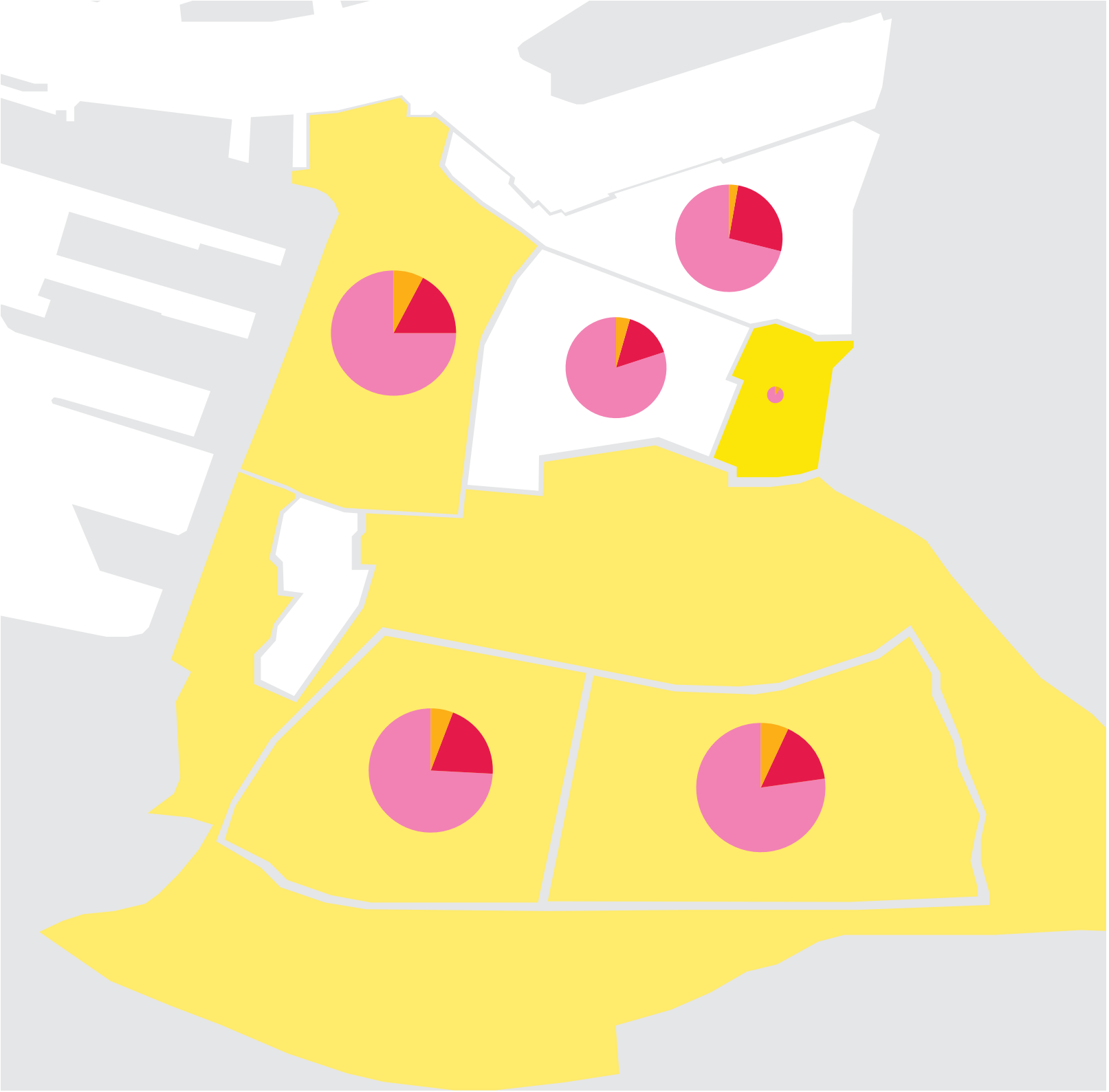
% unemployed inhabitants

index participation - work / education

> 7.1	strong
6.0 - 7.0	sufficient
5.0 - 5.9	vulnerable
4.0 - 4.9	problematic
< 3.9	very weak

Table

Charlois	4463	1273	3190
	total unemployment	dutch nationality	foreign nationality
Tarwewijk	893	198	695
Carnisse	426	184	242
Zuidwijk	960	268	692
Oud-Charlois	847	266	581
Wielewaal	66	53	13
Zuidplein	17	13	4
Pendrecht	1138	236	902
Zuiderpark	18	9	9



Income

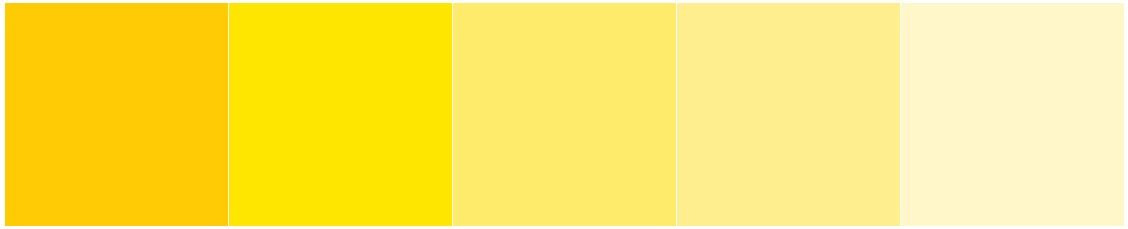
Legend

% high income households
% low income households
% average

Income
above Dutch average
Dutch average
under Dutch average
far under Dutch average

Deviation in income

	Standard-ized	Above	Below
Tarwewijk	70	3	26
Carnisse	78	4	14
Zuidwijk	82	7	16
Oud-Charlois	81	8	17
Wielewaal	76	x	x
Zuidplein	97	10	x
Pendrecht	78	6	20
Zuiderpark	87	x	x
Heijplaat	80	8	16
Average	x	x	x



WORK & INCOME

Oud-Charlois

Work

Legend

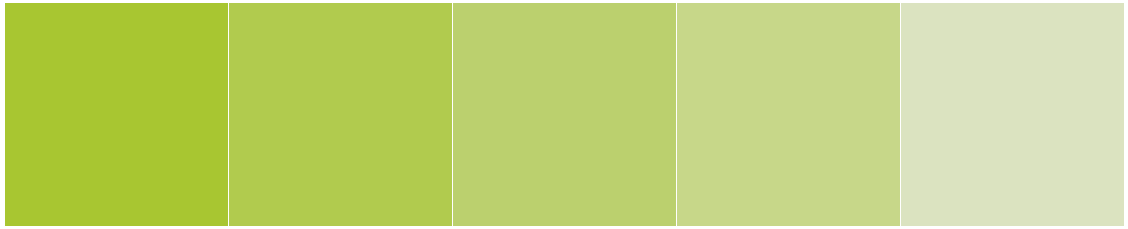
or locations in t e nei bour oo

or areas outsi e t e nei bour oo
or areas insi e t e nei bour oo
or li in co binations
ain roa net or
or one

Vacancy

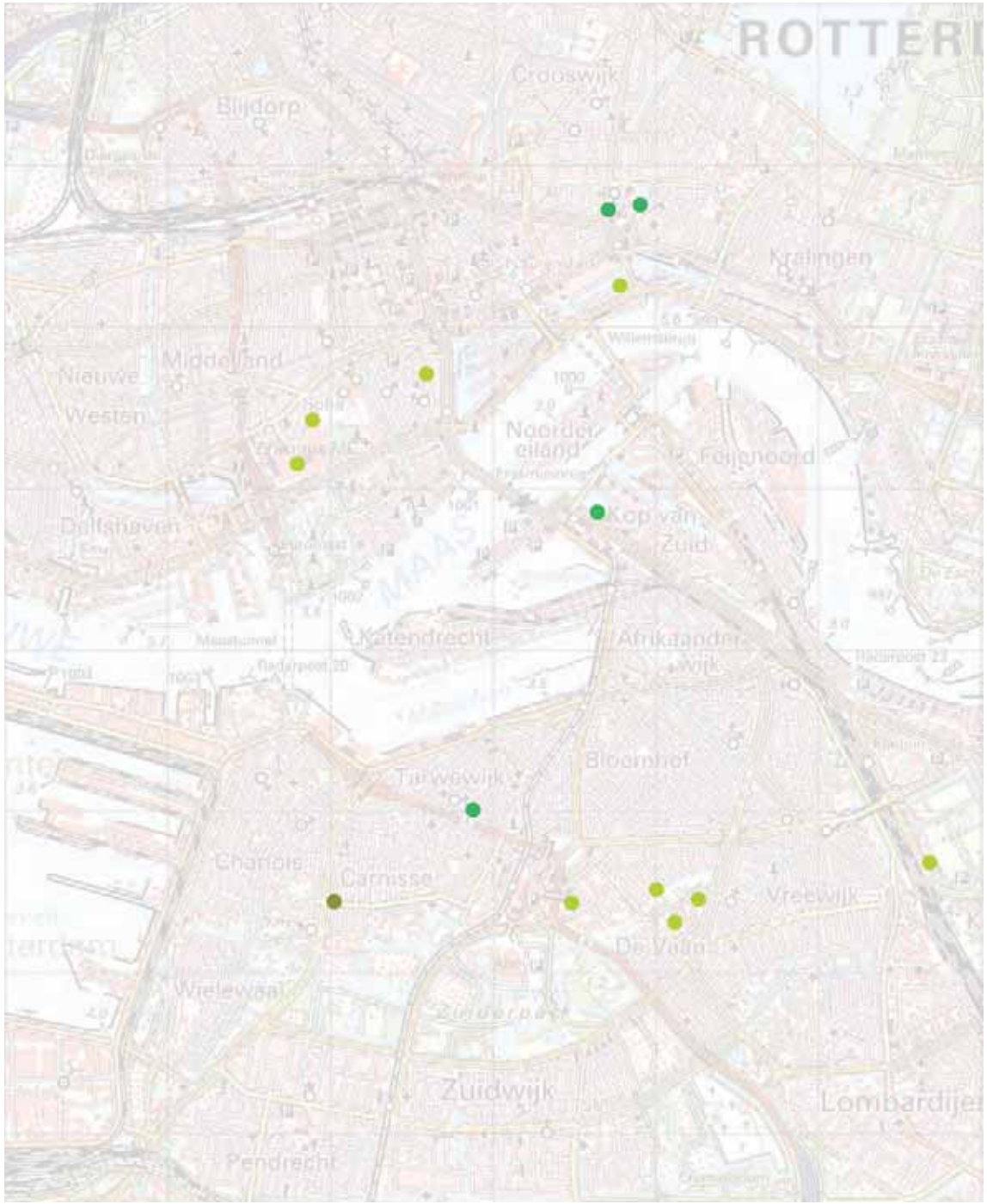
or areas are connecte to ot er or lo cations e en iron ent on t e estsi e is i ly e ecte by t e arbor acti ities co bination in t e or an li in en i ron ent is only alon t e ainroa appear in

Public - private - Rotterdam - work
PUBLIC / PRIVATE



HEALTH CARE & SUPPORT

Rotterdam



ealth aciity

Legend

- Hospital
- Clinic
- Pharmacy

ealth - 1 0000 - ealth facility

Social Networks

Health

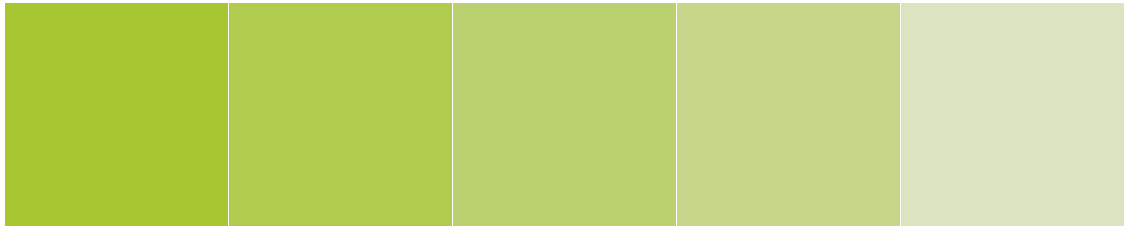
Legend

- Health level between 6 and 7
- Health level between 5 and 6
- Health level between 4 and 5

Health level

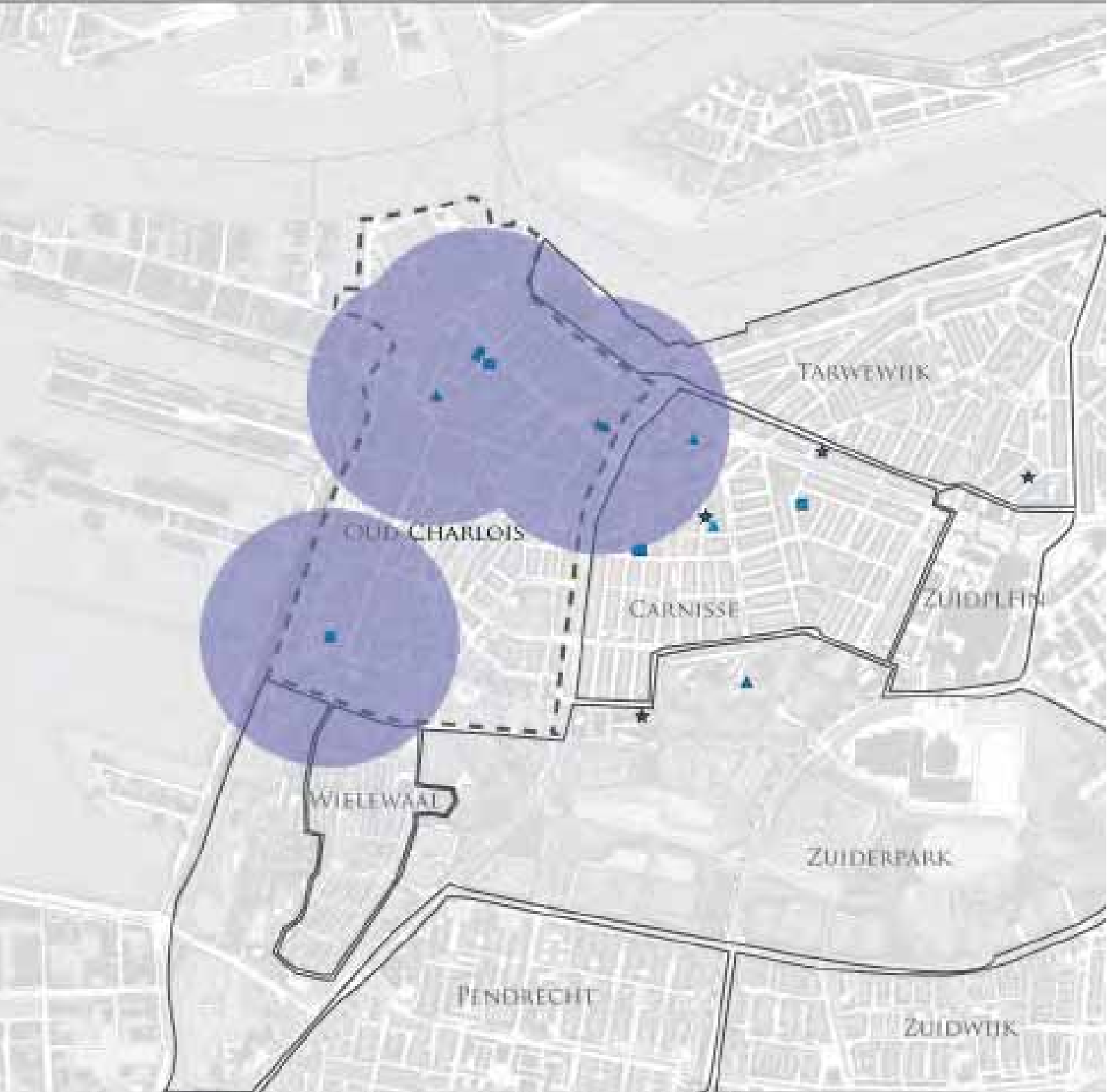
	Good Health
Stadscentrum	6
Delfshaven	4,5
Overschie	5,5
Noord	5,7
Hillegersberg-Schiebroek	6,8
Kralingen-Crooswijk	5,4
Prins Alexander	6,4
Feijenoord	4,6
IJsselmonde	4,9
Charlois	4
Pernis	6,2
Hoogvliet	5,6
Hoek van Holland	6,7
Average Rotterdam	5,1

Health level table determined by questionnaire on the experienced health and the influence of health on the person's life.



HEALTH CARE & SUPPORT

Charlois



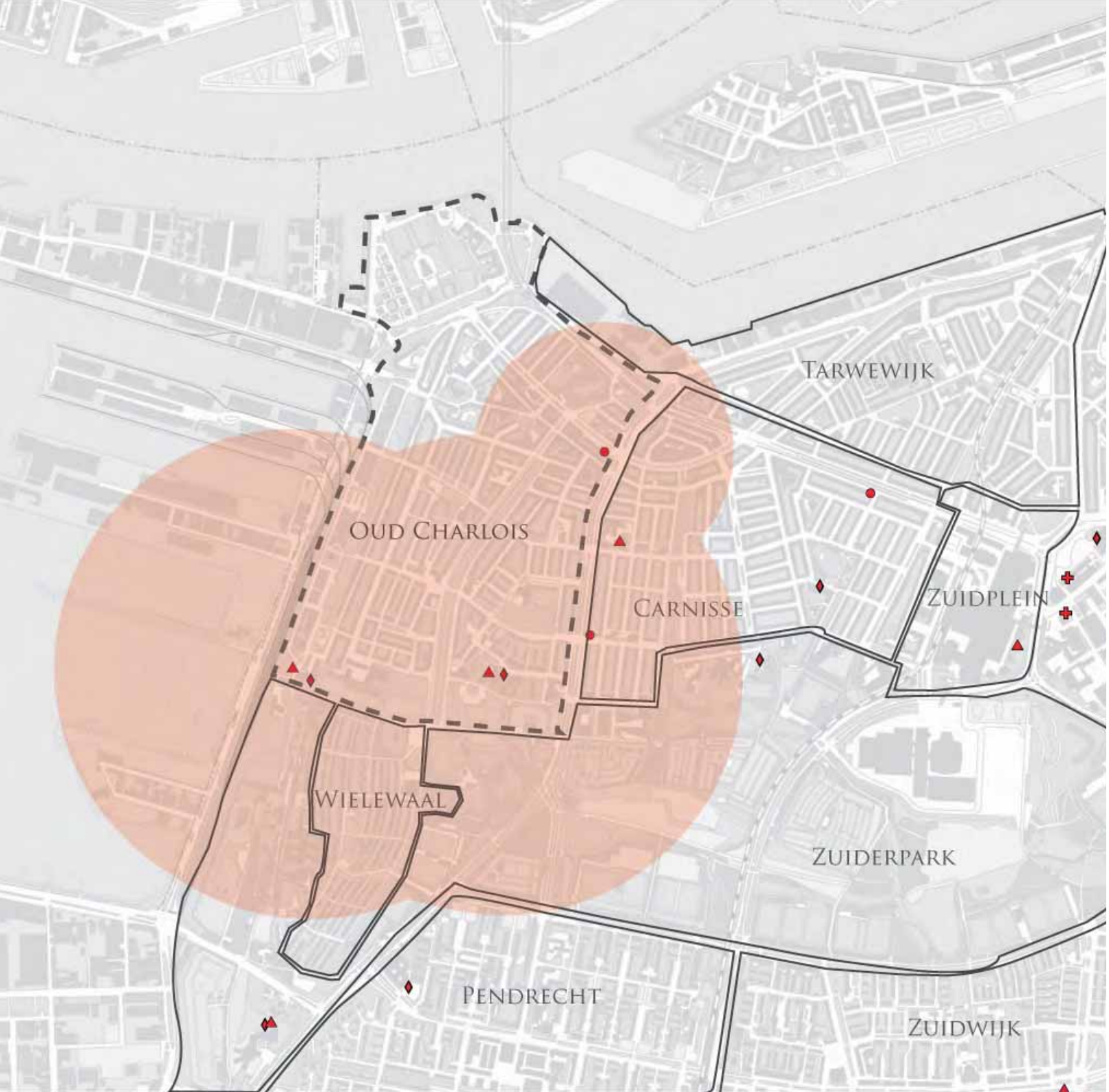
Social care accessibility

Legend

- covered by social care institutions
- day care center for infants
- neighborhood facilities
- kindergarden
- day care center for children

Parameters

The circle radius of the social care institutions is 400m (5min walk).



Health care accessibility

Legend

- covered by health care institutions
- pharmacy
- elders health care center
- youth health care center

Parameters

The circle radius of pharmacy is 400m (5min walk).
The circle radius of the health care centers of both types is 700m (8-10min walk)

ealth Care Facilities

ealth Care

Health FAcilities

- Pharmacy Store
- Hospital
- Youth Health Care Center
- Elders Health Care Center

Care Center FAcilities

- Neighborhood Facilities
- Kindergarden
- Day Care Center for Young Children
- Day care center for older Children

	Number Facilities
Tarwewijk	1
Carnisse	10
Zuidwijk	1
Oud-Charlois	12
Wielewaal	-
Zuidplein	1
Pendrecht	1
Zuiderpark	5
Heijplaat	-
Average	3.4

ource unicipality o otter a

Health

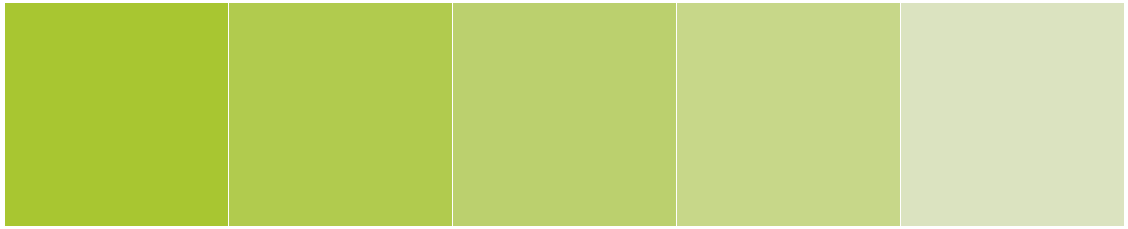
Legend

- Health level between 5 and 6
- Health level between 4 and 5
- Health level under 4

Health level

	Good Health
Tarwewijk	3,7
Carnisse	4,3
Zuidwijk	4,6
Oud-Charlois	4,4
Wielewaal	3,3
Zuidplein	5,3
Pendrecht	3,6
Zuiderpark	5,3
Heijplaat	5,9
Average	4

Health level table determined by questionnaire on the experienced health and the influence of health on the person's life.



HEALTH CARE & SUPPORT

Oud-Charlois

Violence - Health & Care Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Health & Care Facilities

Health Facilities

- Pharmacy Store
- Youth Health Care Center
- Elders Health Care Center

Care Center Facilities

- Neighborhood Facilities
- Kindergarden
- Day Care Center for Young Children
- Day care center for older Children

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

ource unicipality o otter a
roup nalysis

2step-Analysis of Health & Care Facilities from Boergoens-estraat/vliet road

Legend

- Main Road
- 1 step
- 2 step

Health & Care Facilities

Health Facilities

- Pharmacy Store
- Youth Health Care Center
- Elders Health Care Center

Care Center Facilities

- Neighborhood Facilities
- Kindergarden
- Day Care Center for Young Children
- Day care center for older Children

Accessibility of Health & Care Facilities

	Main Road	1 step	2 step
Pharmacy Store		1	
Youth Health Care Center			
Elders Health Care Center			
Neighborhood Facilities		1	
Kindergarden			1
Day Care for Young Chil/en			1
Day Care for Older Chil/en		1	1

Facilities - Oud-Charlois - Health & Services

Private / Public

ource unicipality o otter a
roup nalysis

2step-Analysis of Health & Care Facilities from Wolphaertbocht road

Legend

- Main Road
- 1 step
- 2 step

Health & Care Facilities

Health Facilities

- Pharmacy Store
- Youth Health Care Center
- Elders Health Care Center

Care Center Facilities

- Neighborhood Facilities
- Kindergarden
- Day Care Center for Young Children
- Day care center for older Children

Accessibility of Health & Care Facilities

	Main Road	1 step	2 step
Pharmacy Store	1		
Youth Health Care Center			
Elders Health Care Center			
Neighborhood Facilities	1		
Kindergarden		1	
Day Care for Young Chil/en	1		
Day Care for Older Chil/en		1	1

Facilities - Oud-Charlois - Health & Services

Private / Public

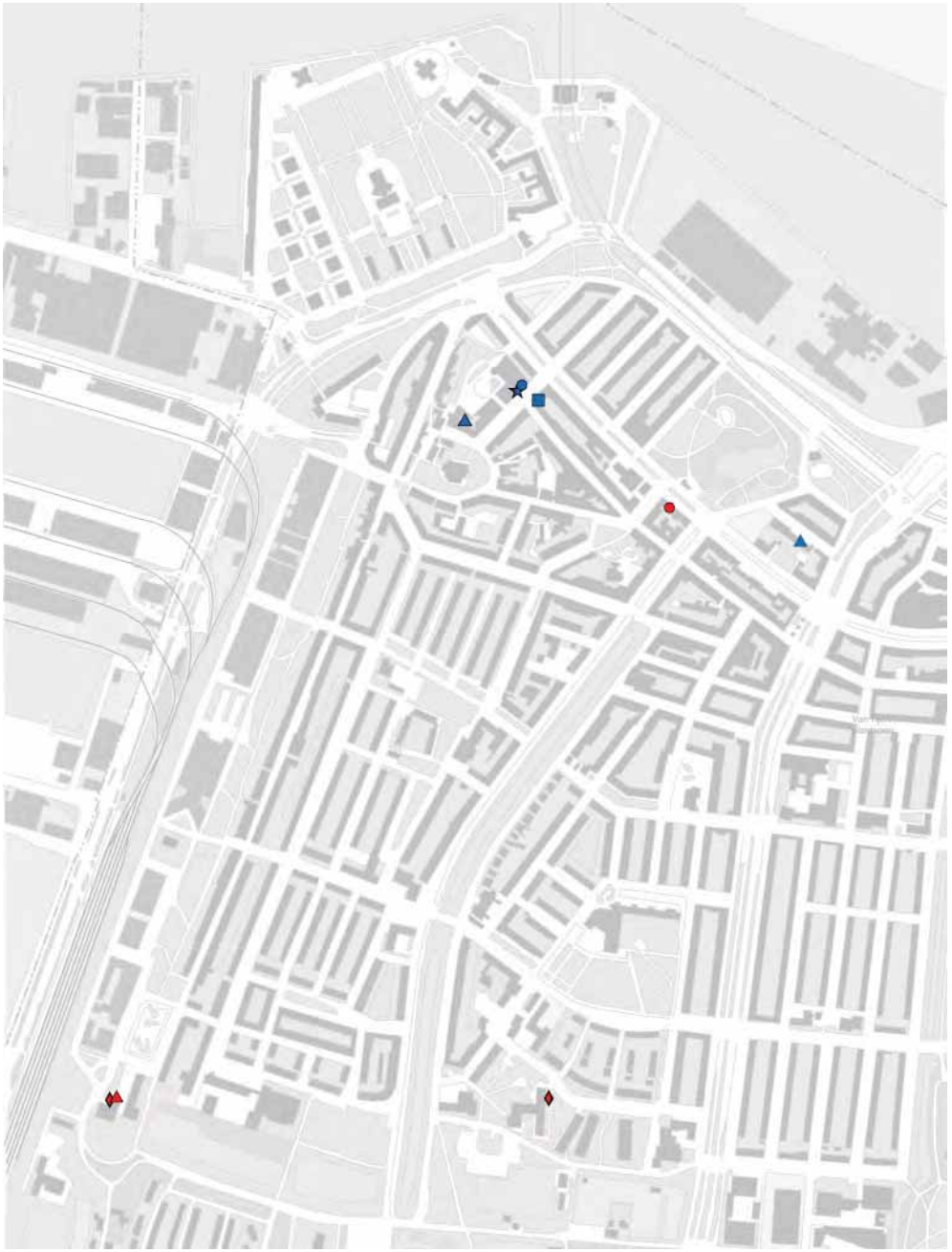
Relation of Public Green to Health & Care Facilities

Legend

- Public Green
- Health Facilities
- Care Facilities

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public



Health / Care Facilities

Legend

Health Facilities

- Pharmacy Store
- Youth Health Care Center
- Elders Health Care Center

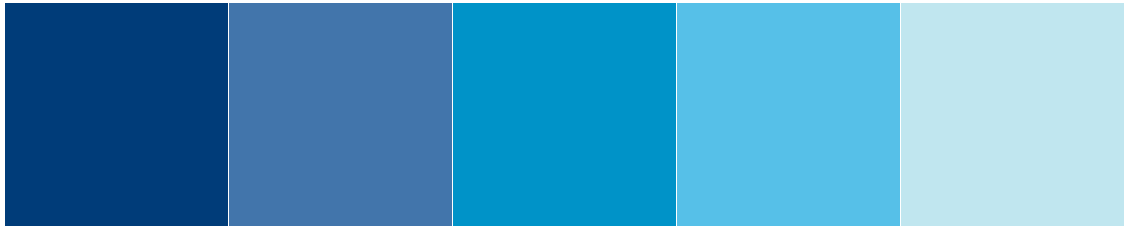
Care Center Facilities

- Neighborhood Facilities
- Kindergarden
- Day Care Center for Young Children
- Day care center for older Children

Health / Care Facilities

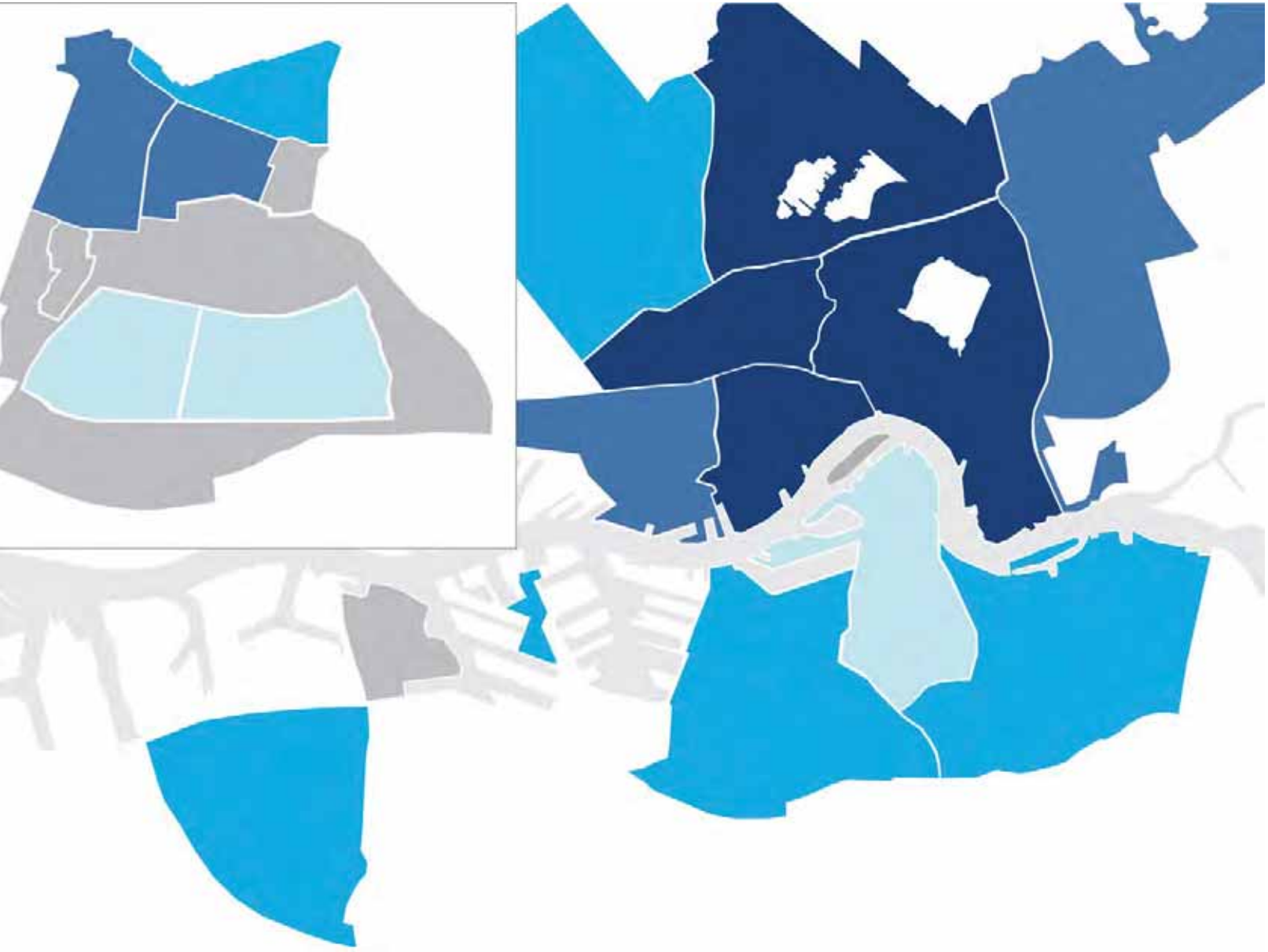
	number
Health Facilities	
Pharmacy Store	1
Youth Health Care Center	1
Elders Health Care Center	2
Care Facilities	
Neighborhood Facilities	1
Kindergarden	1
Day Care Center for Young Children	1
Day Care Center for Older Children	2

ource unicipality o otter a



EDUCATION

Rotterdam



Education Level

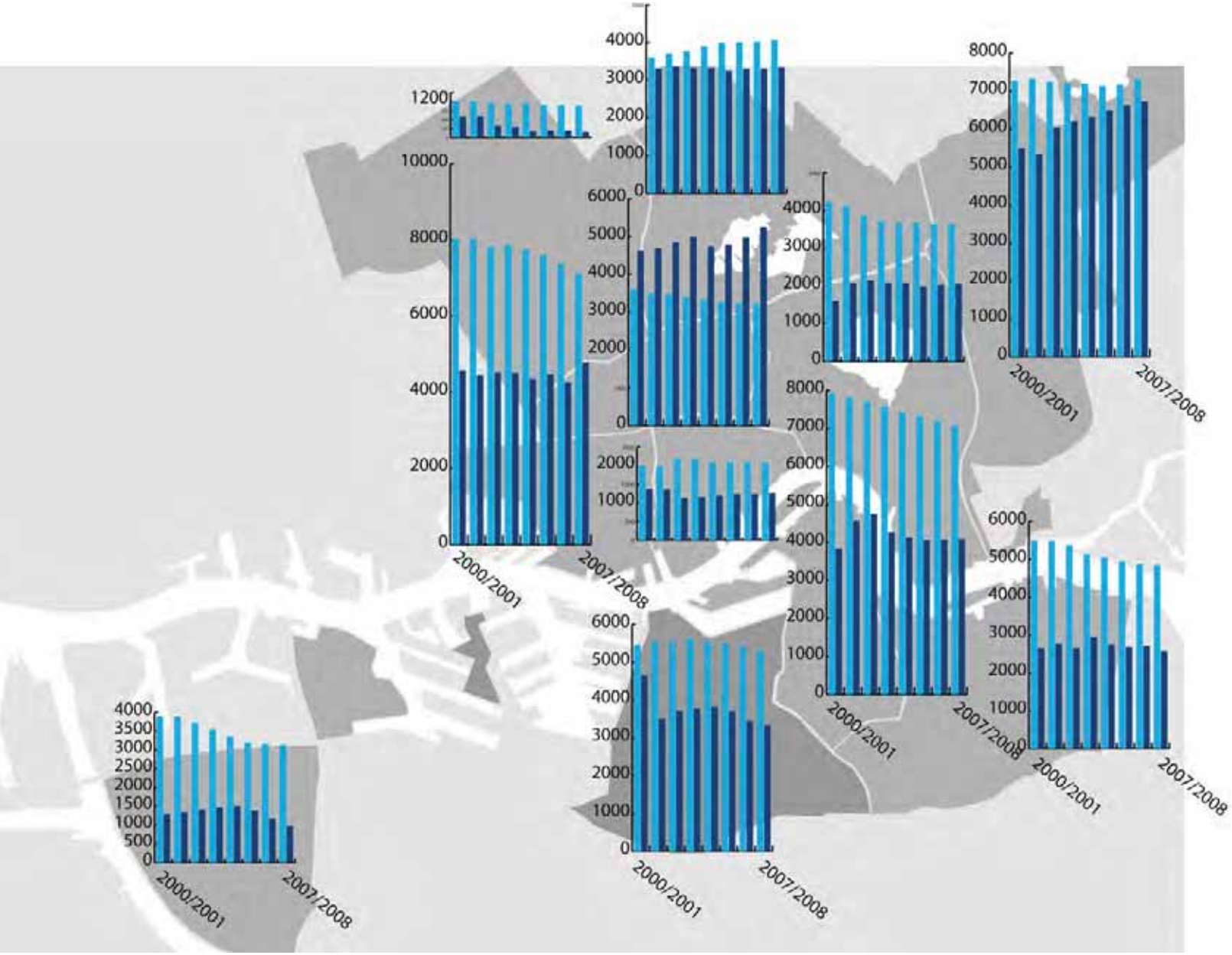
Legend

- ≥ 70%
- 61%> 70%
- 51%> 60%
- ≤50%
- n no

Secondary and higher education , 2008

	P rc nta
ta sc ntr m	
l sha n	
rschi	
oor	74
Hill rs r chi ro	75
ralin n Croos i	70
Prins Alexander	
i noor	44
ss lmon	
Charlois	
Charlois	
P rnis	
Hoo li t	
Hoek van Holland	
ott r am	

Education Level



Legend

- Secondary School
- Elementary School

Number of students in Rotterdam, 00 ~08

	l m ntary	ncon ary
ta sc ntr m	2075	
l sha n	7114	4774
rschi	1059	179
oor		
Hill rs r chi ro	4058	
ralin n Croos i	3641	4774
i noor	7066	179
ss lmon	4848	
P rnis	396	
Prins Alexander	7299	6725
Charlois		
Hoo li t		971
Hoek van Holland	769	

Education

Legend

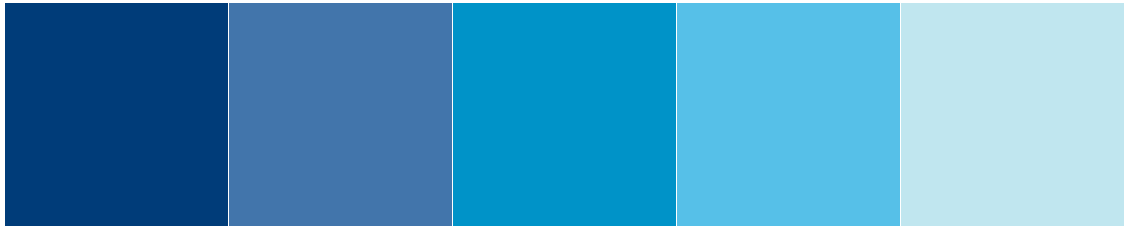
- school quitters
- starting qualifications

Education level

- Education level above Rotterdam average
- Education level Rotterdam average
- Education level under Rotterdam average

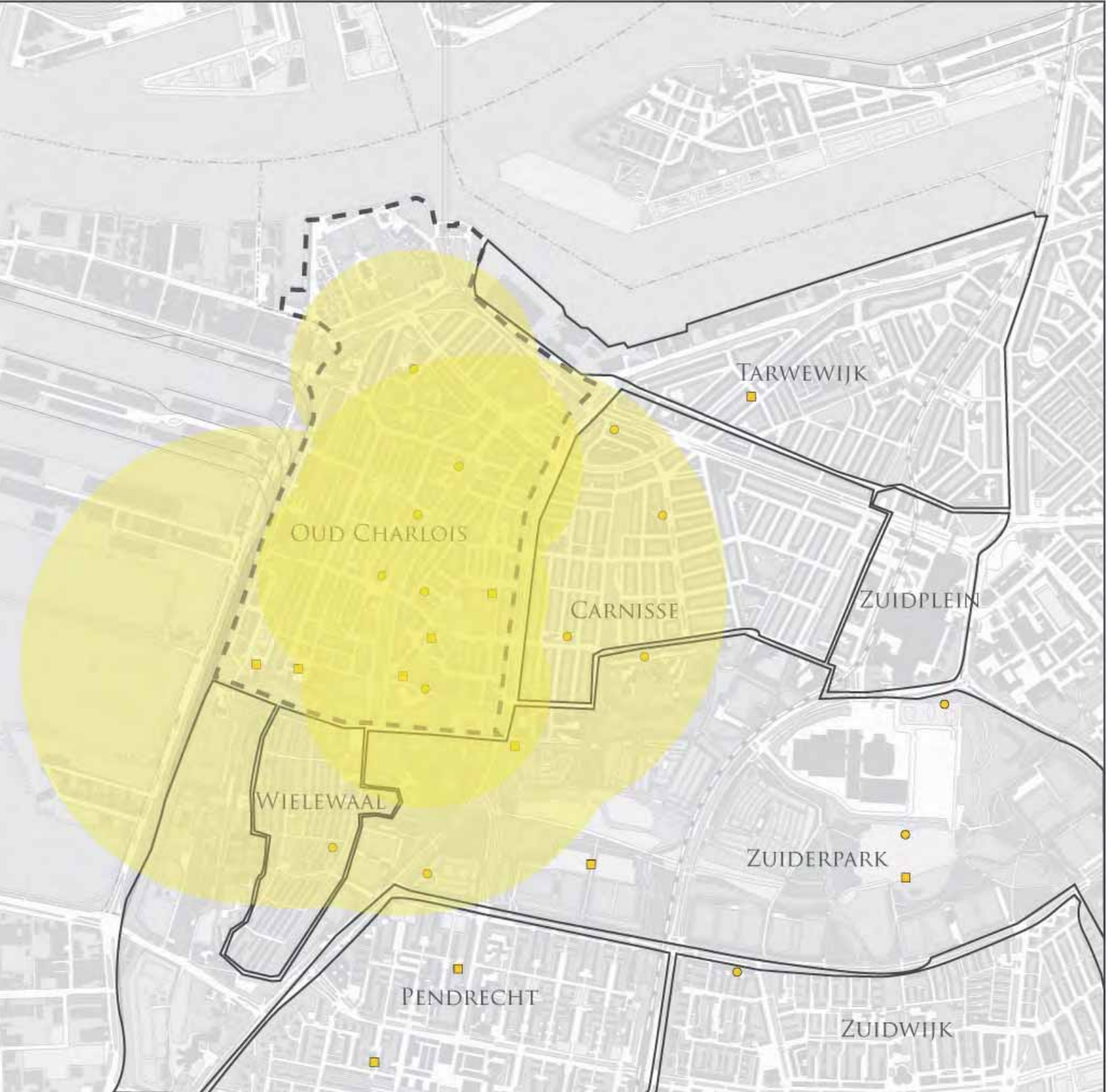
Education

	Educa-tion level	school quitters	starting qualifica-tions
Stadscentrum	82	10	44
Delfshaven	61	11	24
Overschie	55	12	21
Noord	74	11	30
Hillegersberg-Schie-broek	75	8	21
Kralingen-Crooswijk	70	9	38
Prins Alexander	66	8	23
Feijenoord	44	13	17
IJsselmonde	53	13	19
Charlois	55	16	20
Pernis	x	8	22
Hoogvliet	52	9	18
Hoek van Holland	x	9	22



EDUCATION

Charlois



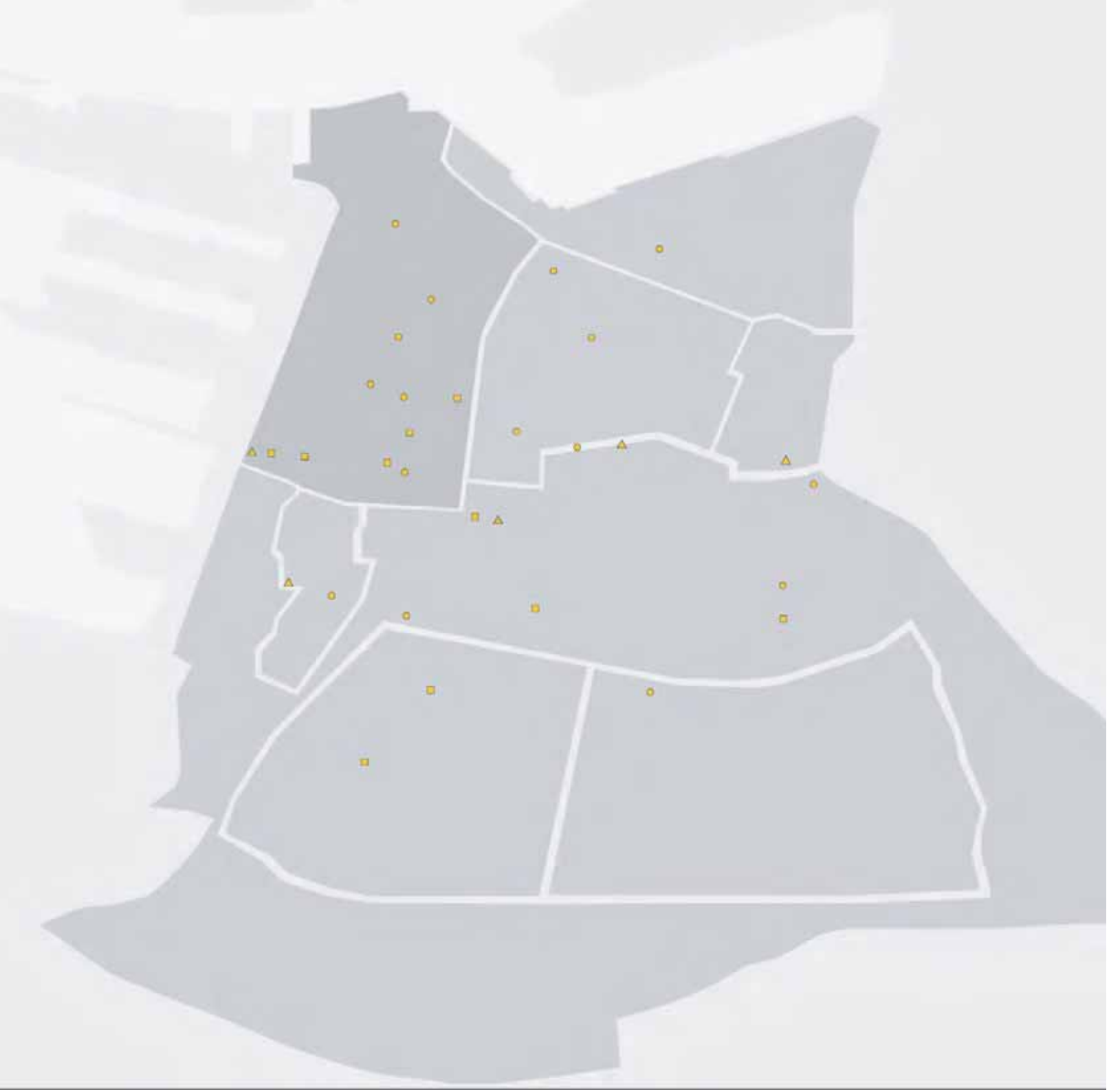
Education Accesi-bility

Legend

- covered by primary and high schools
- covered only by primary schools or high schools
- high schools
- primary schools

Parameters

The circle radius of the primary schools is 400m (5min walk).
The circle radius of the high schools is 750m (10min walk)



ducational Facilities

Legend

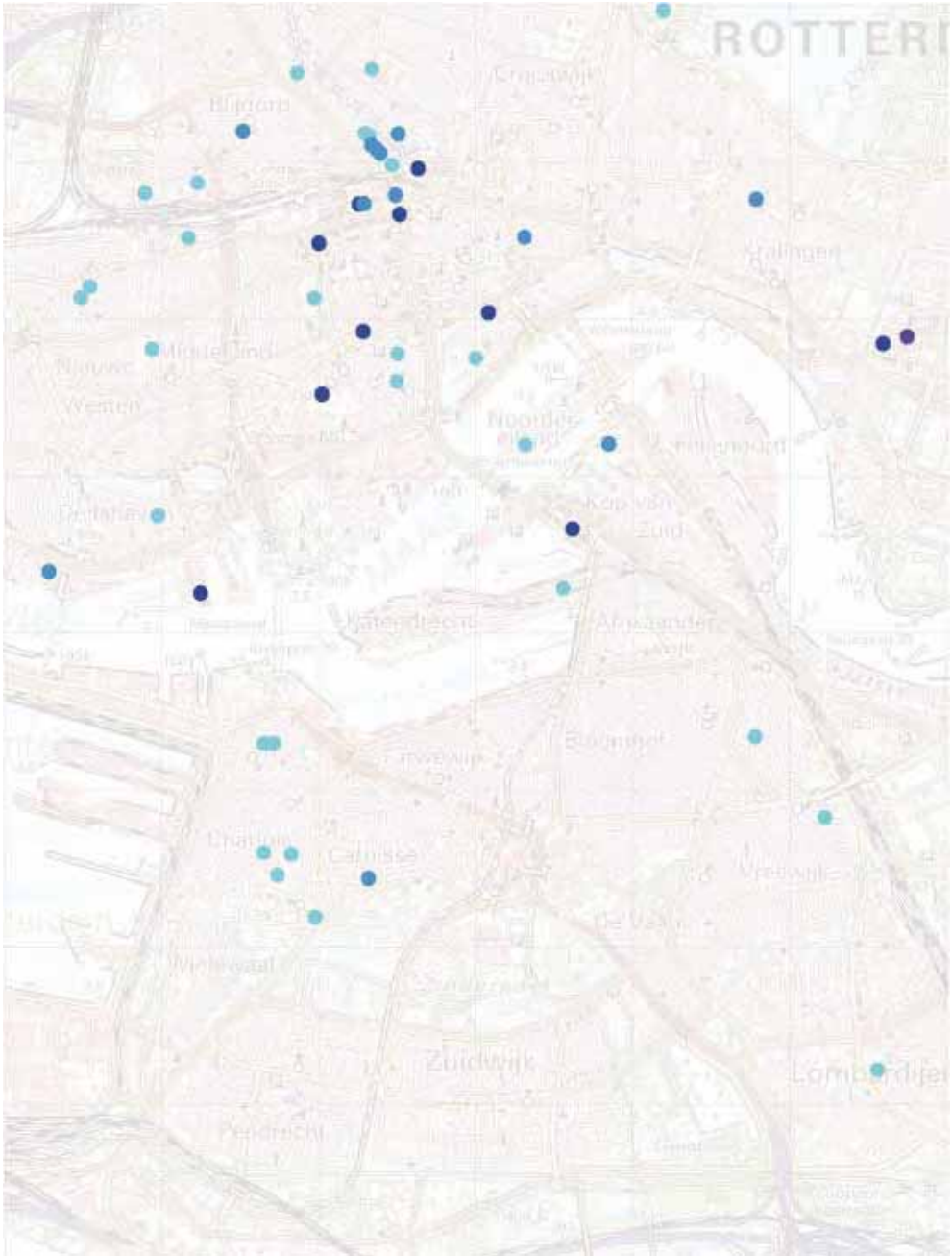
- Primary Schools
- High Schools
- Special Schools

	Number Facilities
Tarwewijk	1
Carnisse	3
Zuidwijk	1
Oud-Charlois	12
Wielewaal	2
Zuidplein	1
Pendrecht	2
Zuiderpark	9
Heijplaat	-
Average	4.6

ource unicipality o otter a

Private / Public - Charlois - Education

Private / Public



Higher Education

Legend

- schools
- MBO
- HBO
- University

Education - 1/40000 - Higher education

SOCIAL NETWORK

Education

drop-outs youth 17 - 22 yrs.

Legend

- foreign nationality
- dutch nationality

% Drop outs youth

index participation - work / education

- > 7.1 strong
- 6.0 - 7.0 sufficient
- 5.0 - 5.9 vulnerable
- 4.0 - 4.9 problematic
- < 3.9 very weak

Table

Charlois	5115	3435	1680	1099	581	1680
	total 17 - 22 yrs.	foreign nationalities	dutch nationalities	total drop-outs	foreign nationality	dutch nationality
Tarwewijk	1101	828	273	248	182	66
Carnisse	904	540	364	208	139	69
Zuidwijk	819	508	311	177	106	71
Oud-Charlo	1005	669	336	203	130	73
Wielewaal	60	15	45	16	4	12
Zuidp/zuid	53	27	26	15	7	8
Pendrecht	975	776	199	194	145	49

Education

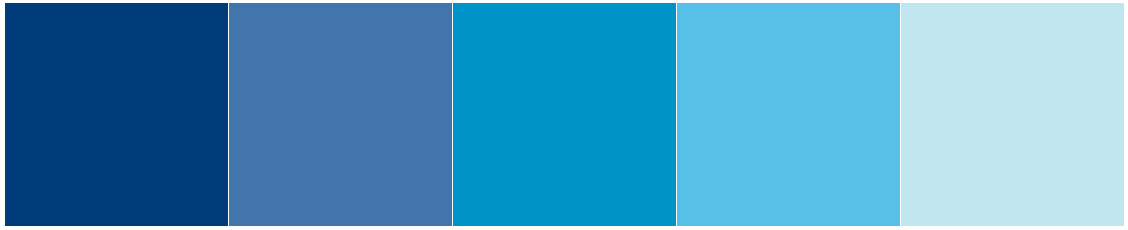
Legend

school quitters
starting qualifications

Education level
Education level above Rotterdam average
Education level Rotterdam average
Education level under Rotterdam average

Education

	Educa-tion level	school quitters	starting qualifica-tions
Tarwewijk	51	18	20
Carnisse	62	19	25
Zuidwijk	49	14	18
Oud-Charlois	61	14	20
Wielewaal	x	16	21
Zuidplein	x	30	41
Pendrecht	50	15	17
Zuiderpark	x	14	13
Heijplaat	x	14	16
Average	55	16	20



EDUCATION

Oud-Charlois

Violence - Educational Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Educational Facilities

- Primary Schools
- High Schools
- Special Schools

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

2step-Analysis of Educational Facilities from Boergoensestraat/vliet road

Legend

Main Road
1 step
2 step

Educational Facilities

Primary Schools
High Schools
Special Schools

Accessibility of Educational Facilities

	Main Road	1 step	2 step
Primary Schools	3		3
High Schools		1	2
Special Schools			

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Education
Private / Public

2step-Analysis of Educational Facilities from Wolphaertbocht road

Legend

- Main Road
- 1 step
- 2 step

Educational Facilities

- Primary Schools
- High Schools
- Special Schools

Accessibility of Educational Facilities

	Main Road	1 step	2 step
Primary School		3	1
High Schools			
Special Schools			

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Education

Private / Public

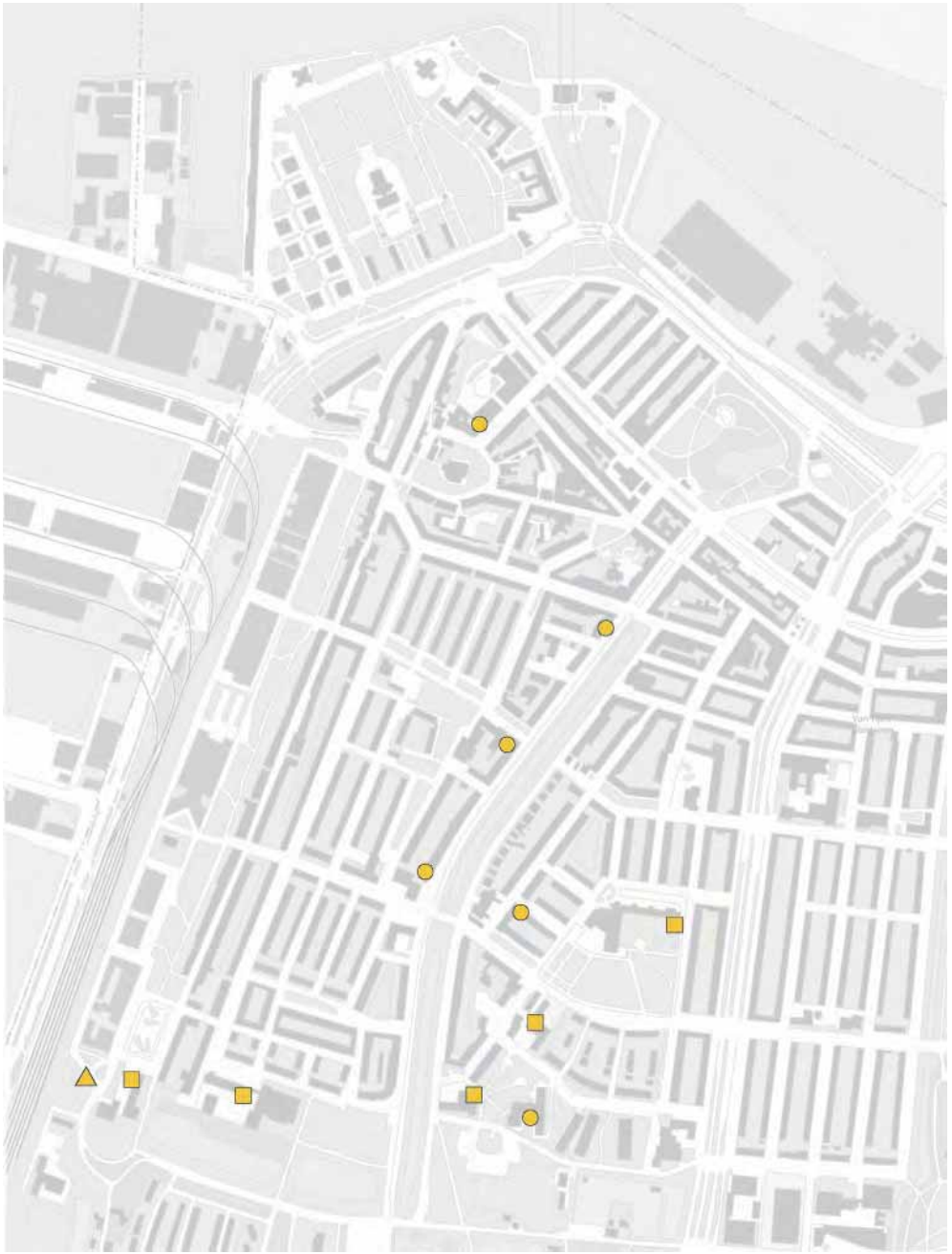
Relation of Public Green to Educational Facilities

Legend

- Public Green
- Educational Facilities

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public



Educational Facilities

Legend

- Primary Schools
- High Schools
- Special Schools

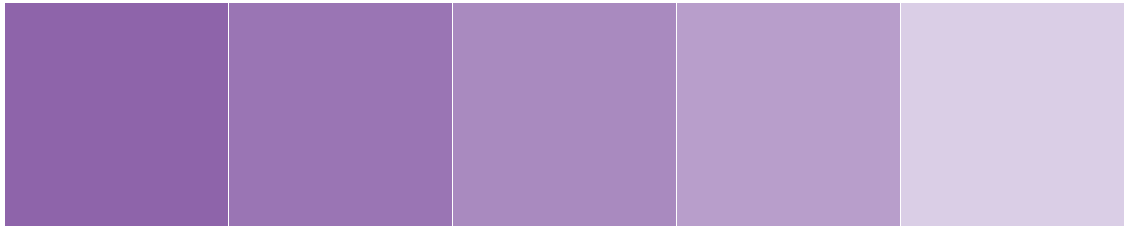
Educational Facilities

	number
Primary Schools	6
High Schools	5
Special Schools	1

ource unicipality o otter a

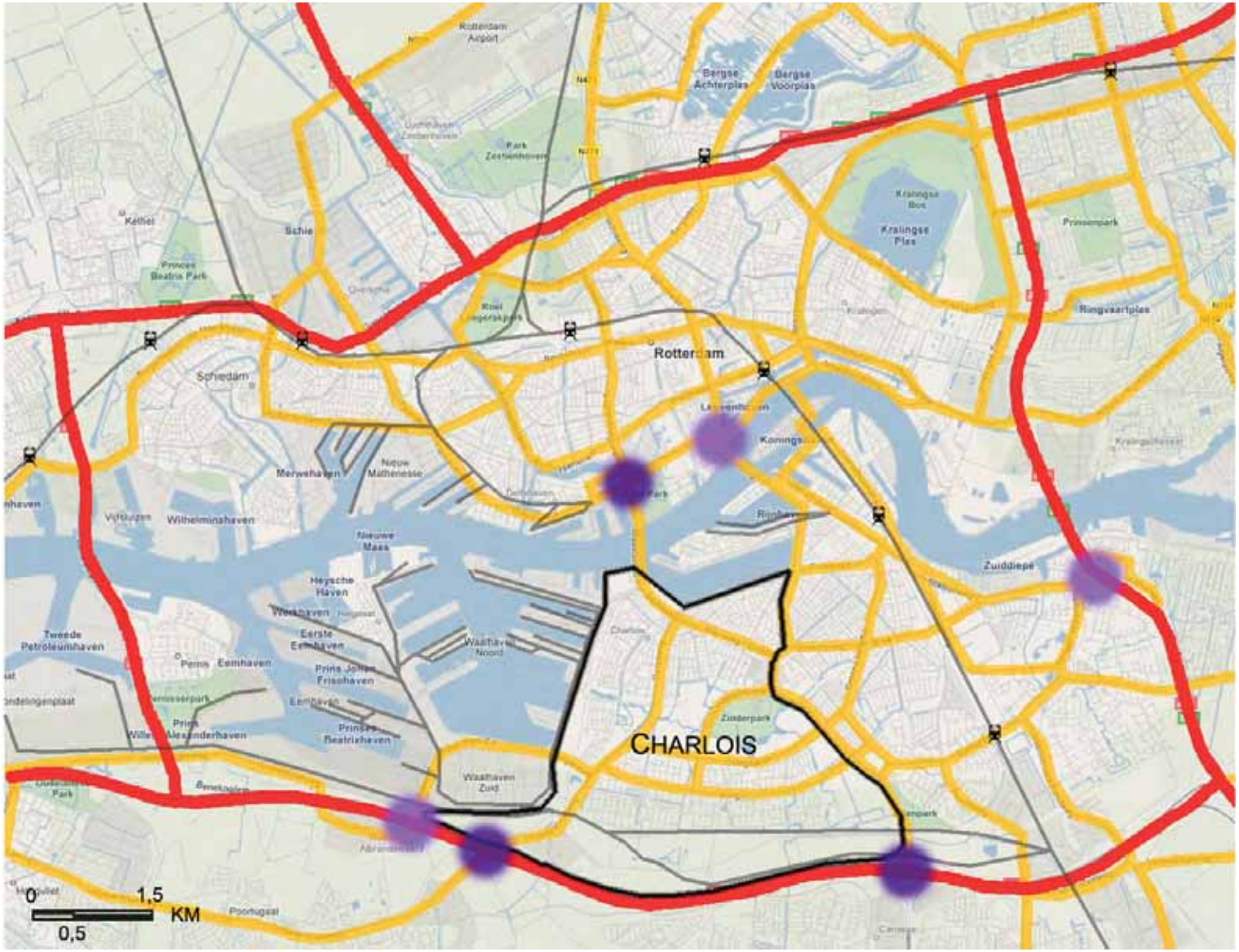
Facilities - Oud-Charlois - Education

Private / Public



SOCIAL PARTICIPATION

Rotterdam



ocial articipation

e en

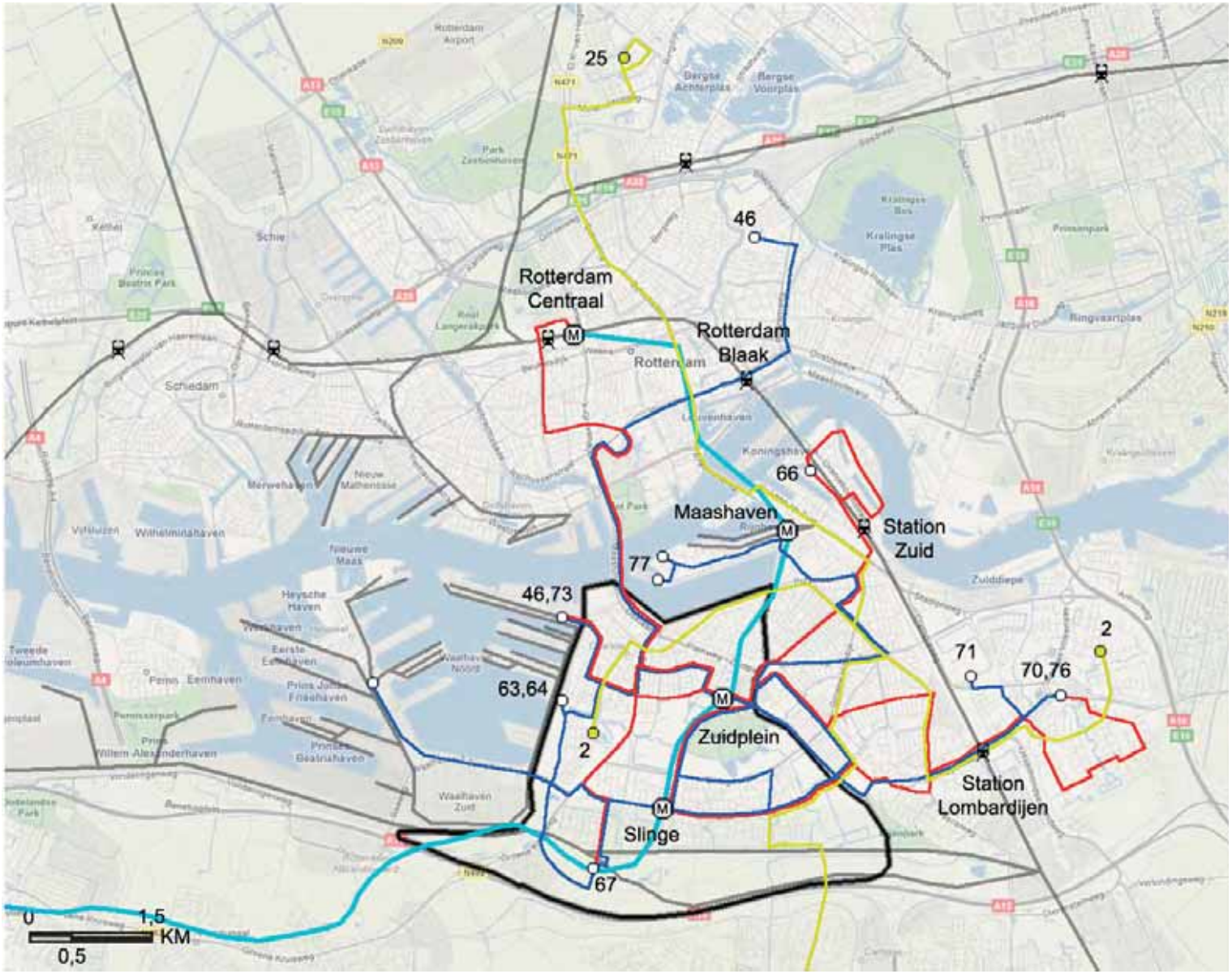
ain no e
econ ary no e

ype o roa transportation
ail line
i ays
rteries

ccessibility o t e istrict otter a roa net or

otter a city is encircle by a rin roa which defines its prime boundaries. A series o ain arteries ri e t e people to the inner city and districts. These numer ous series, as seen in the map, are quite dense, a fact which encourages that Rot terdam is a car based city. Furthermore there are 3 bridges and 2 tunnels that connect the two sides with each other. Regarding the accessibility to Charlois, it should be highlighted that part of the ring road creates its southern border. There are t o ain no es t at ri e cars into Charlois, as well as two secondary. From the city center, one can use the Maastun nel which leads directly to the area, but also the Erasmusbrug. From Charlois the ain arteries ea to t e nei borin districts and the centre.

obility otter a ocial articipation



ocial articipation

e en

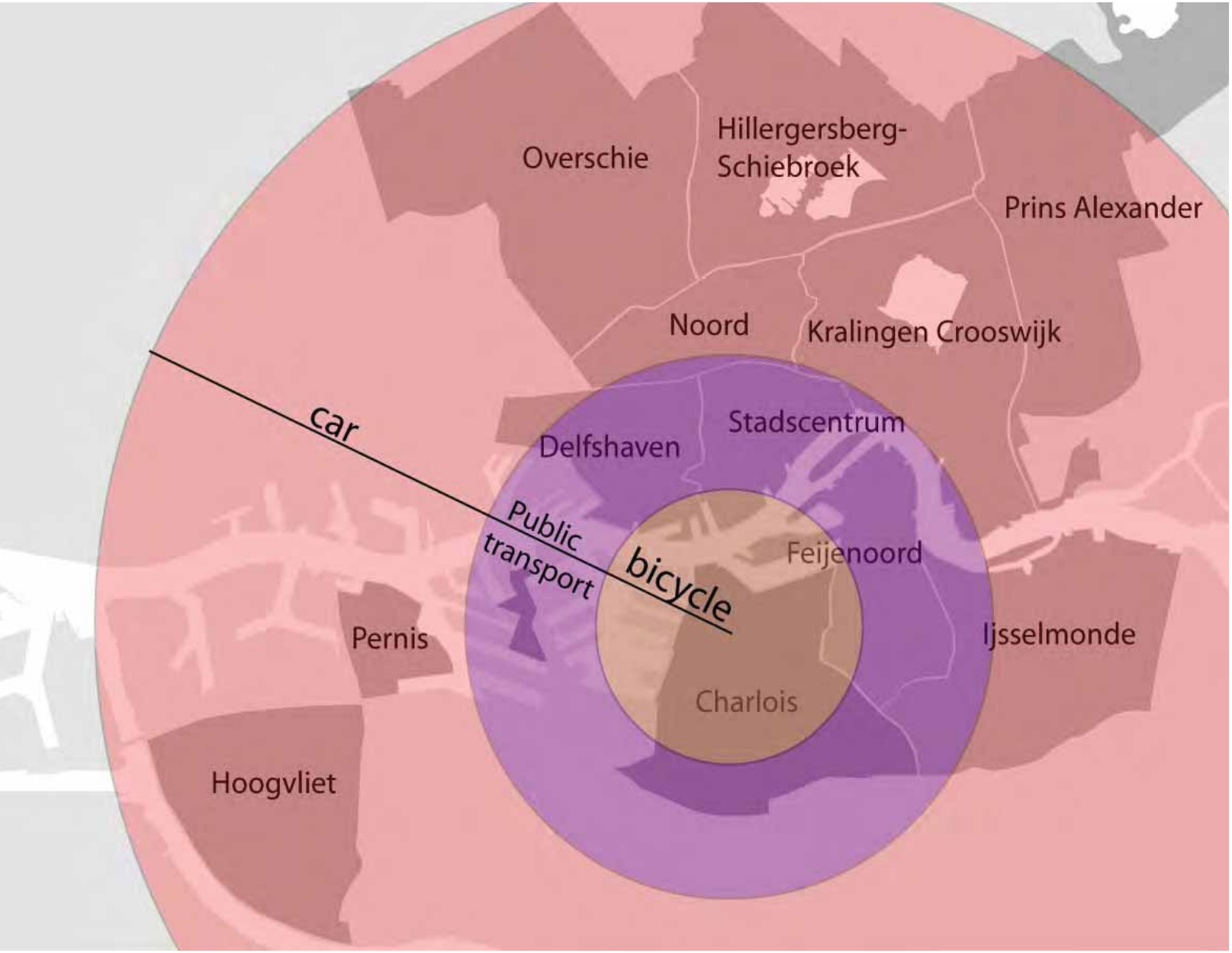
ype o transportation
Daily busline
Frequent daily busline
ra line
Metroline Erasmuslijn
ailine
Bus,Tram & Metro stop

Rotterdam public transport in relation to arlois

The public transportation system is spread throughout the whole city and is created by two metro lines, several tram and bus lines and the railway. Focusing in arlois istrict ar e it a blac contour) it is evident that Zuidplein area comprises a hub for the greater area as ost o t e local transportation lines pass from there (including the erasmus lijn-metro). The railway passes through the greater area making four stations, but there are bus lines connecting all four stations with the study area. Lastly, there are two tram lines passing through Charlois. As an overall feature the area is mostly well-connected with the southern districts, whereas the connection with the nort ern part is ostly reali e to reac larger nodes such as the railway stations.

obility otter a ocial articipation

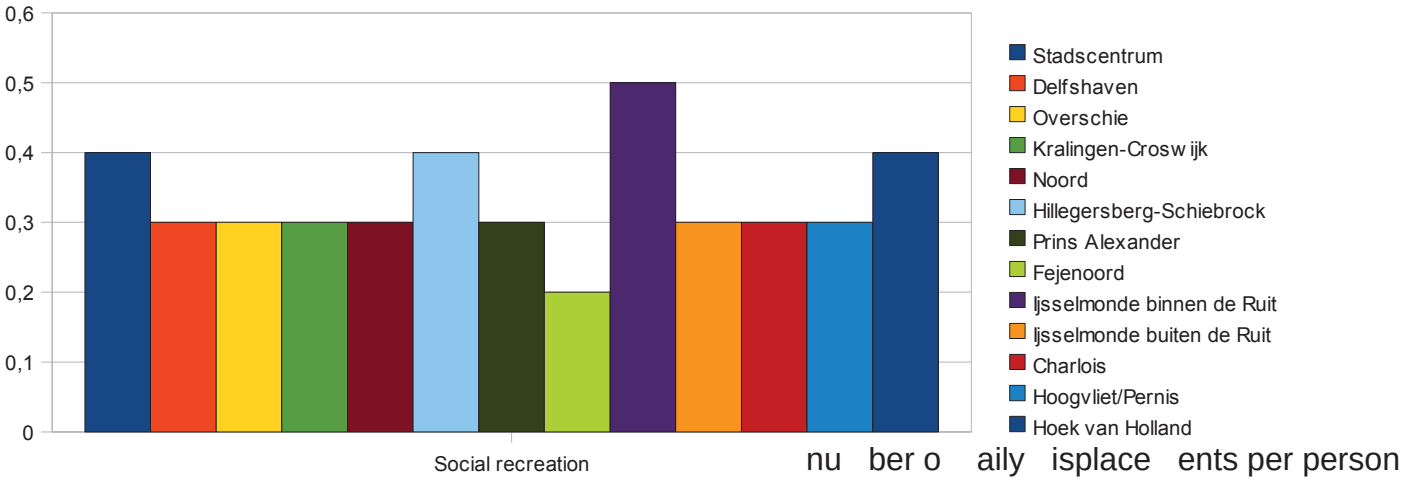
Mobility modes



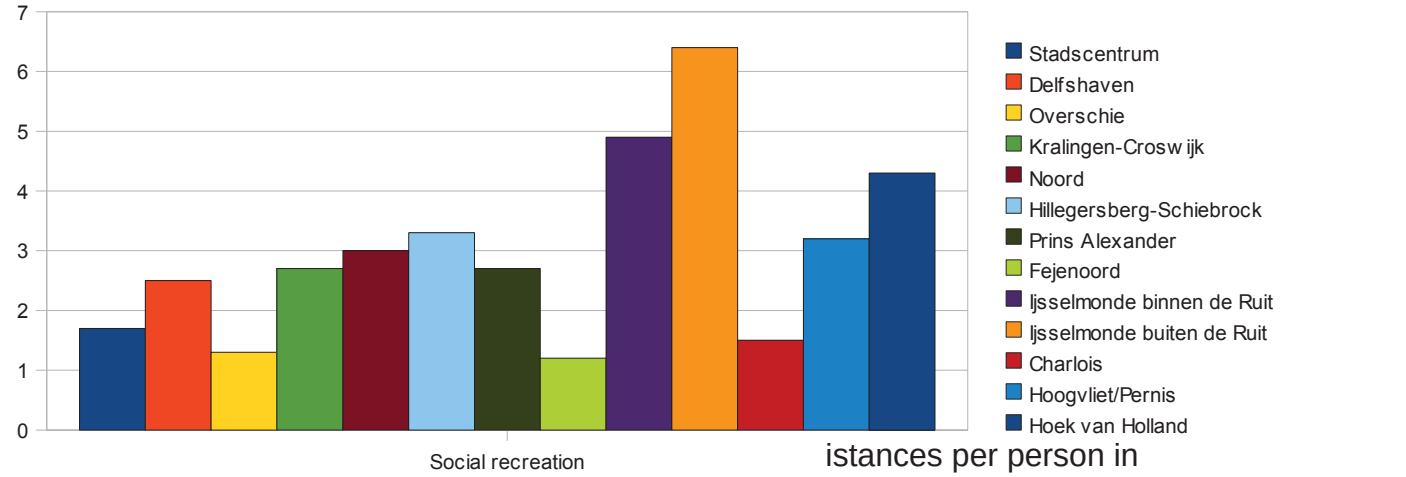
Legend

- mostly car
- car & public transport
- car &bicycle

ocial recreation

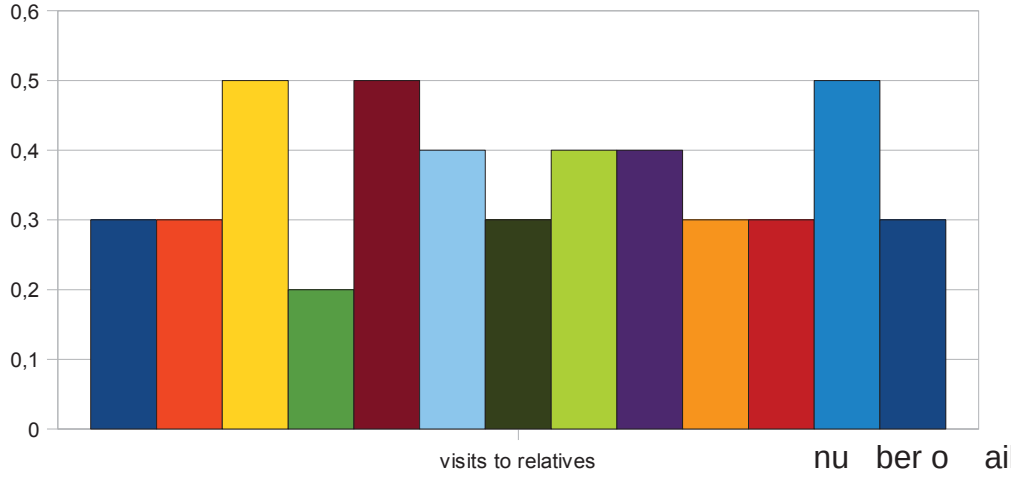


nu ber o aily isplace ents per person

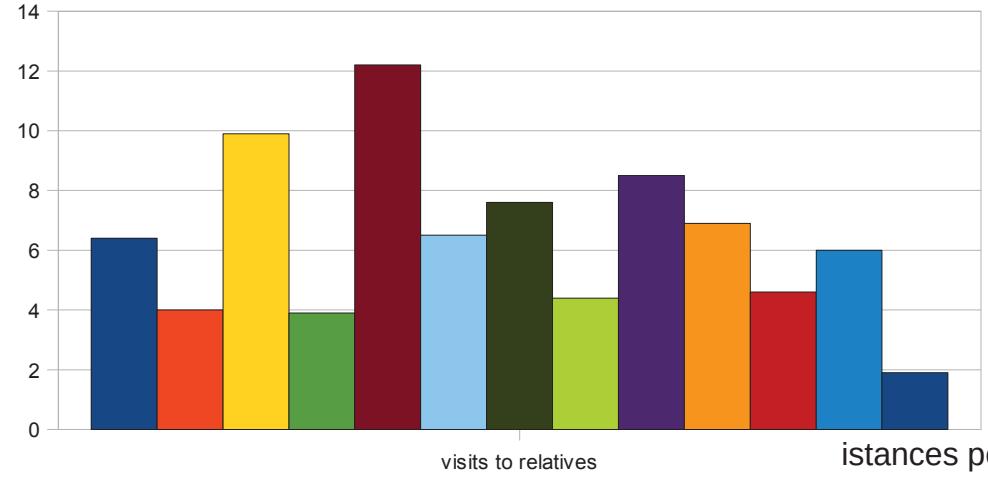


istances per person in

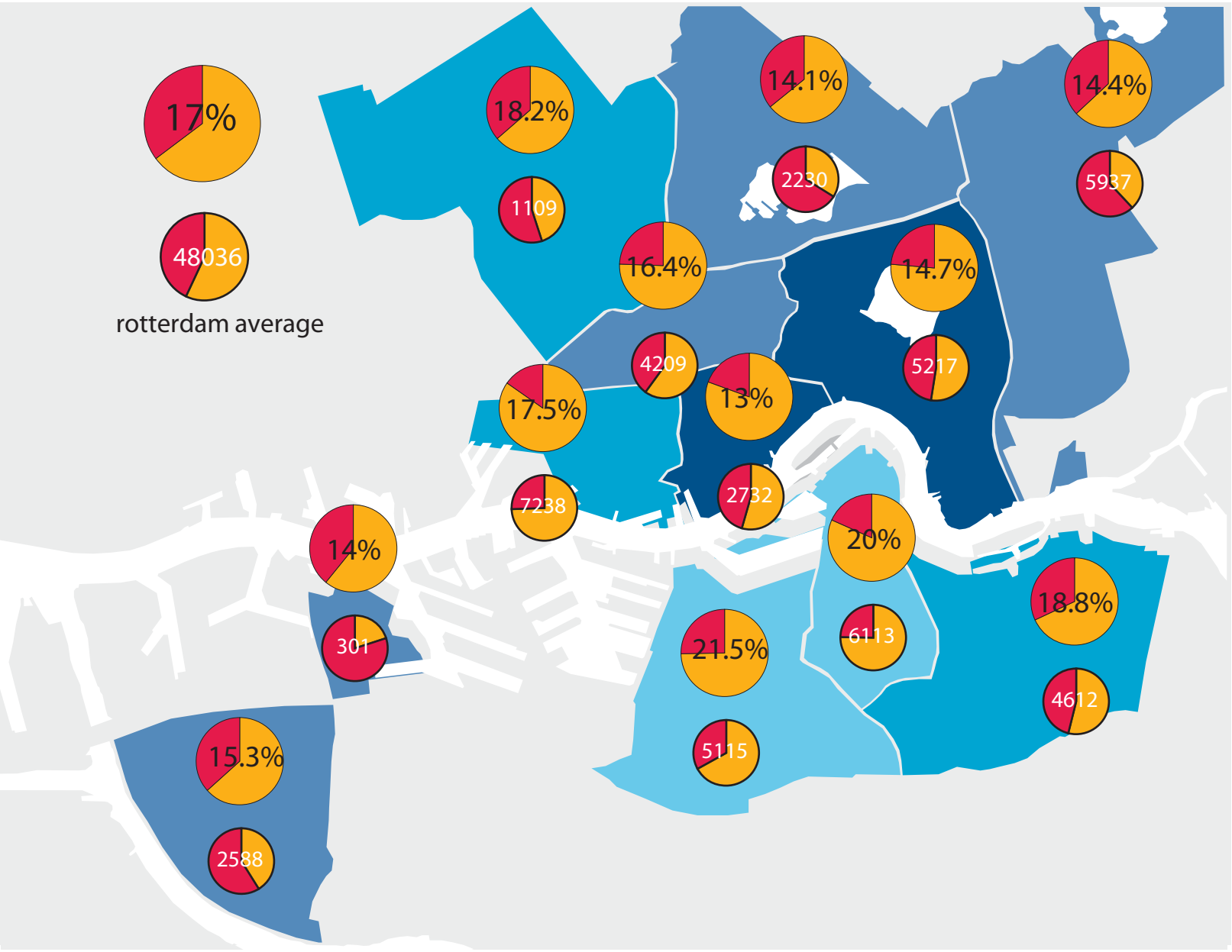
isits to relati es



nu ber o aily isplace ents per person



istances per person in



Education

drop-outs youth 17 - 22 yrs.

Legend

- foreign nationality
- dutch nationality

% drop-outs youth

capacity index - education

- > 7.1 strong
- 6.0 - 7.0 sufficient
- 5.0 - 5.9 vulnerable
- 4.0 - 4.9 problematic
- < 3.9 very weak

Table

Rotterdam	48037	27434	20602	8164	5303	2861
	total 17 - 22 yrs.	foreign nationalities	dutch nationalities	total drop-outs	foreign nationality	dutch nationality
Stadscentr.	2732	1495	1237	442	357	85
Delfshaven	7238	5408	1830	1489	1264	225
Overschie	1109	500	609	317	202	115
Noord	4209	2526	1683	914	691	223
Hille-Schie	2230	759	1471	489	315	174
Kral-Croos	5217	2739	2478	1007	770	237
Prins Alex.	5937	2266	3671	1354	857	hup
Feijenoord	6113	4605	1508	1489	1220	269
IJsselmond	4612	2490	2122	1274	868	oud
Charlois	5115	3435	1680	1469	1099	370
Penis	301	60	239	69	42	27
Hoogvliet	2588	1070	1518	612	389	233

Social Participation

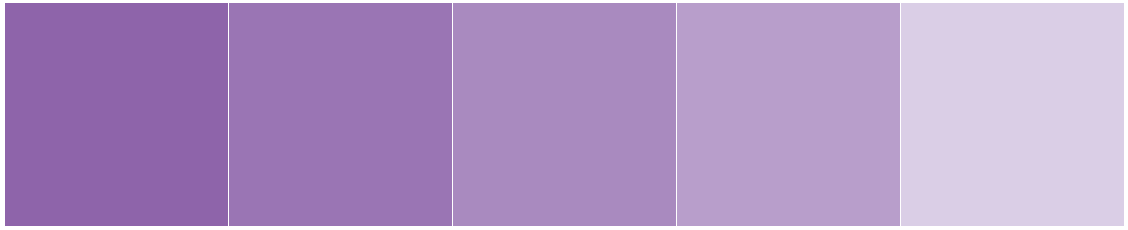
Legend

Participation rate above 7
Participation rate between 6 and 7

Social commitment

	Partici-pation
Stadscentrum	6,3
Delfshaven	6,2
Overschie	7
Noord	6,3
Hillegersberg-Schiebroek	7,3
Kralingen-Crooswijk	6,1
Prins Alexander	7,1
Feijenoord	6
IJsselmonde	6,2
Charlois	6,3
Pernis	7,1
Hoogvliet	6,8
Hoek van Holland	7,2
Average Rotterdam	6,7

Social participation is divided in three categories, informal care, volunteering and the commitment to the subdistrict. All are based on numbers from statistics from the questionnaire. The commitment is defined as 'being involved in neighbourhood activities and the aim of an increased livability.



SOCIAL PARTICIPATION

Charlois

ocial articipation

e en

ri ary roa s
ne tep
econ tep

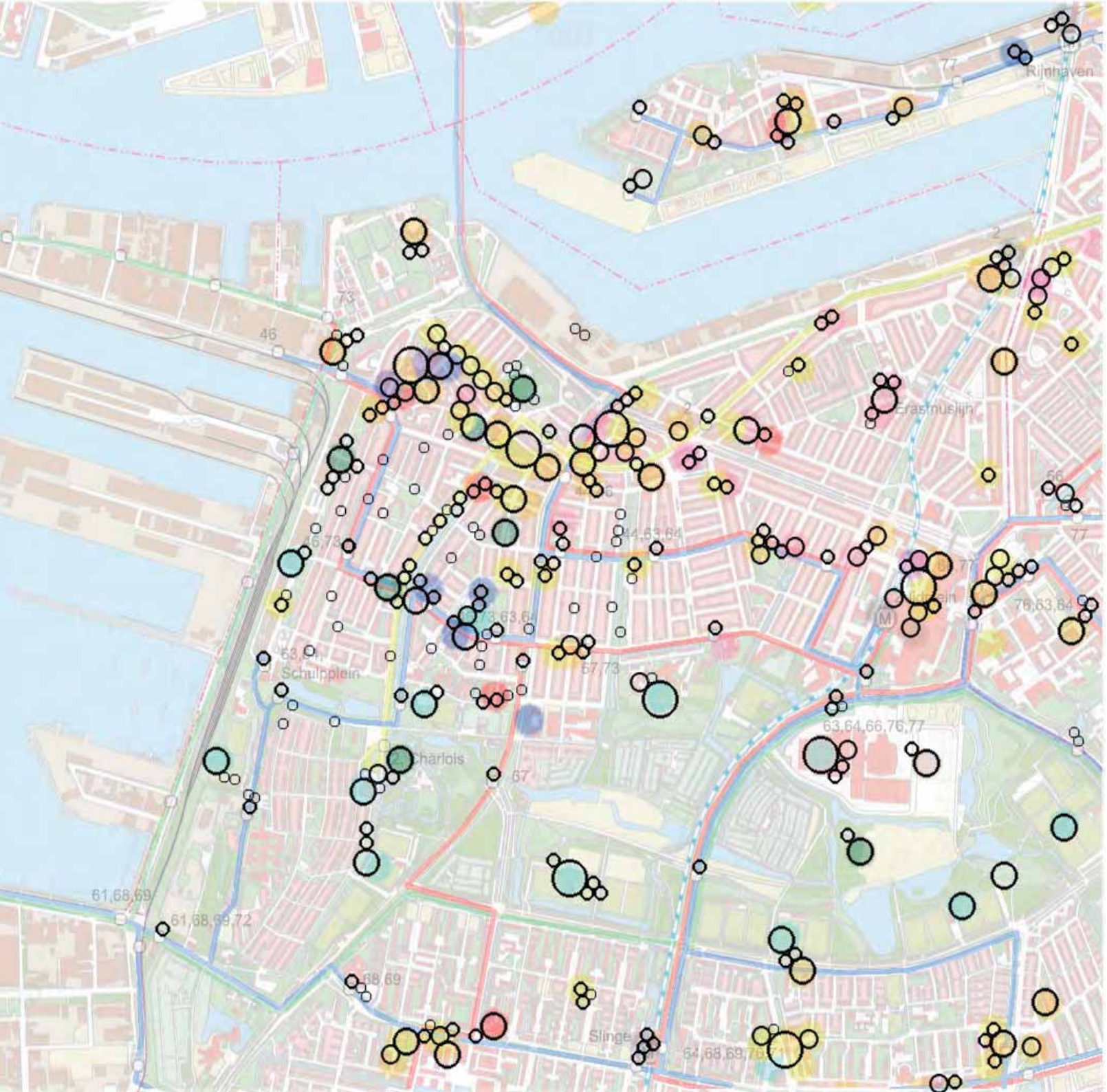
ess accessible areas

esi ential areas
ar s an sport acilities

ccessibility in t e istrict

n or er to researc t e accessibility o areas insi e t e istrict a t o step analy sis as carrie out is analysis as as a base t e pri ary roa s o t e area an is reali e t rou si ni yin t e irect accessible roads two times. The first and secon steps locate areas ic are ac cessible easily ro t e ain roa s but also areas ic are urt er a ay an one finds difficulty accessing them. In the ia ra suc areas are isuali e it tone e estern resi ential areas o t e istricts are ostly t e least accessible ile t e inner parts o par s an sport acilities are also nor ally less accessible by car e estern pri ary roa oesn t i e access to u arlois isolatin it ro t e ater ront

obility otter a ocial articipation



ocial articipation

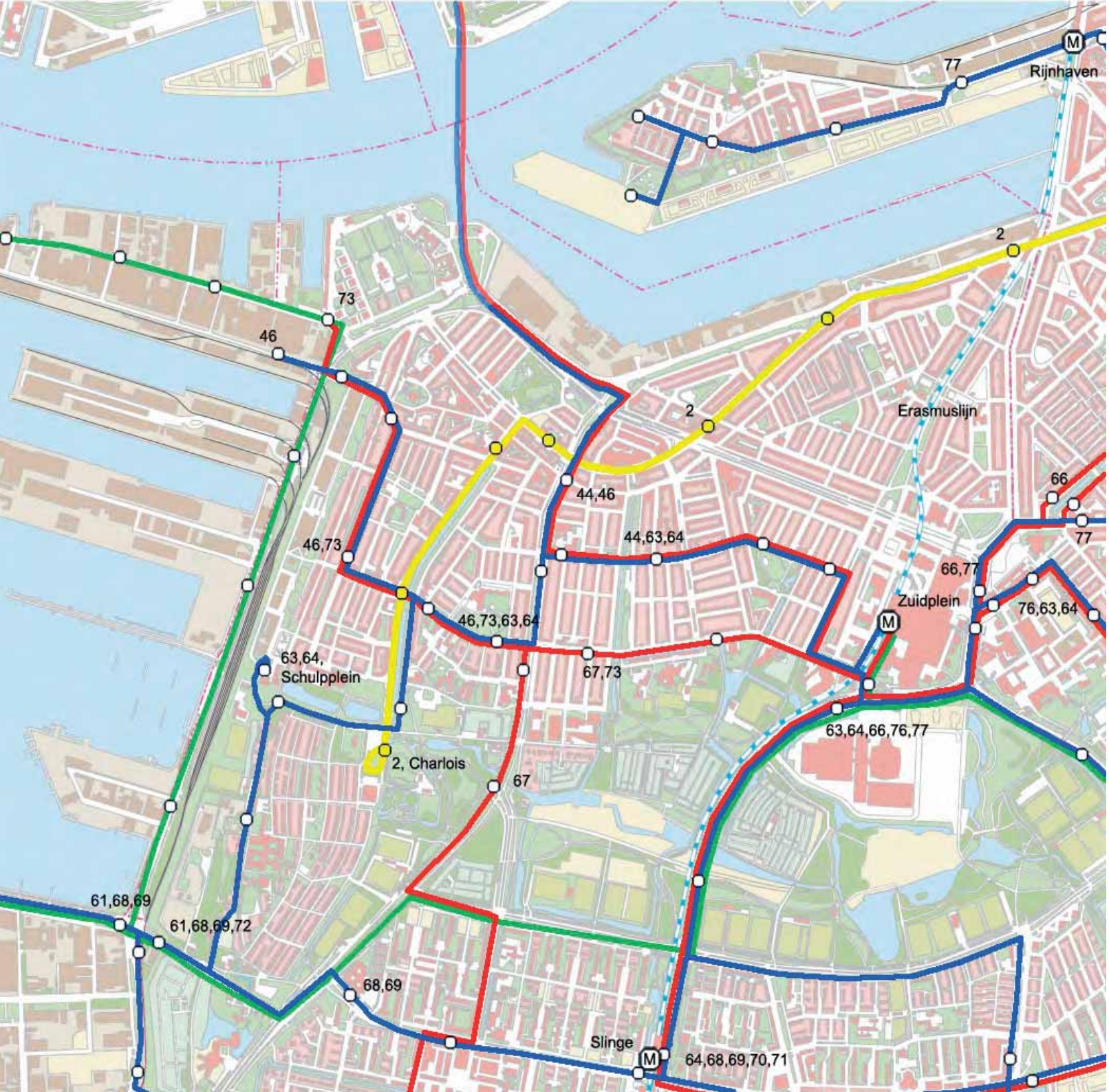
e en

- eetin spot
- ntense obility
- i obility
- o erate obility
- o obility

lo o people in arlois

The study of the flow of people is very i portant to co pre en t e loca tions ere people o e an eet n t is ap t e e ree o obility is rate pri arily accor in to t e e istence o specific facilities such as sport fields an sc ools o erce an recrea tion is also a a net or people suc as restaurants bars cine as t eatres s ops or ani ations as ell as useu s an c urc es e i er t e ensity o the facilities, the larger the flow of people ets not er i portant ele ent or t e degree of this flow is the existence of a pe estrian street an public transporta tion stations n places ere t e obil ity is ery intense an accor in to t e existing facilities (bar, park, sport field) a meeting spot can be defined.

obility arlois ocial articipation



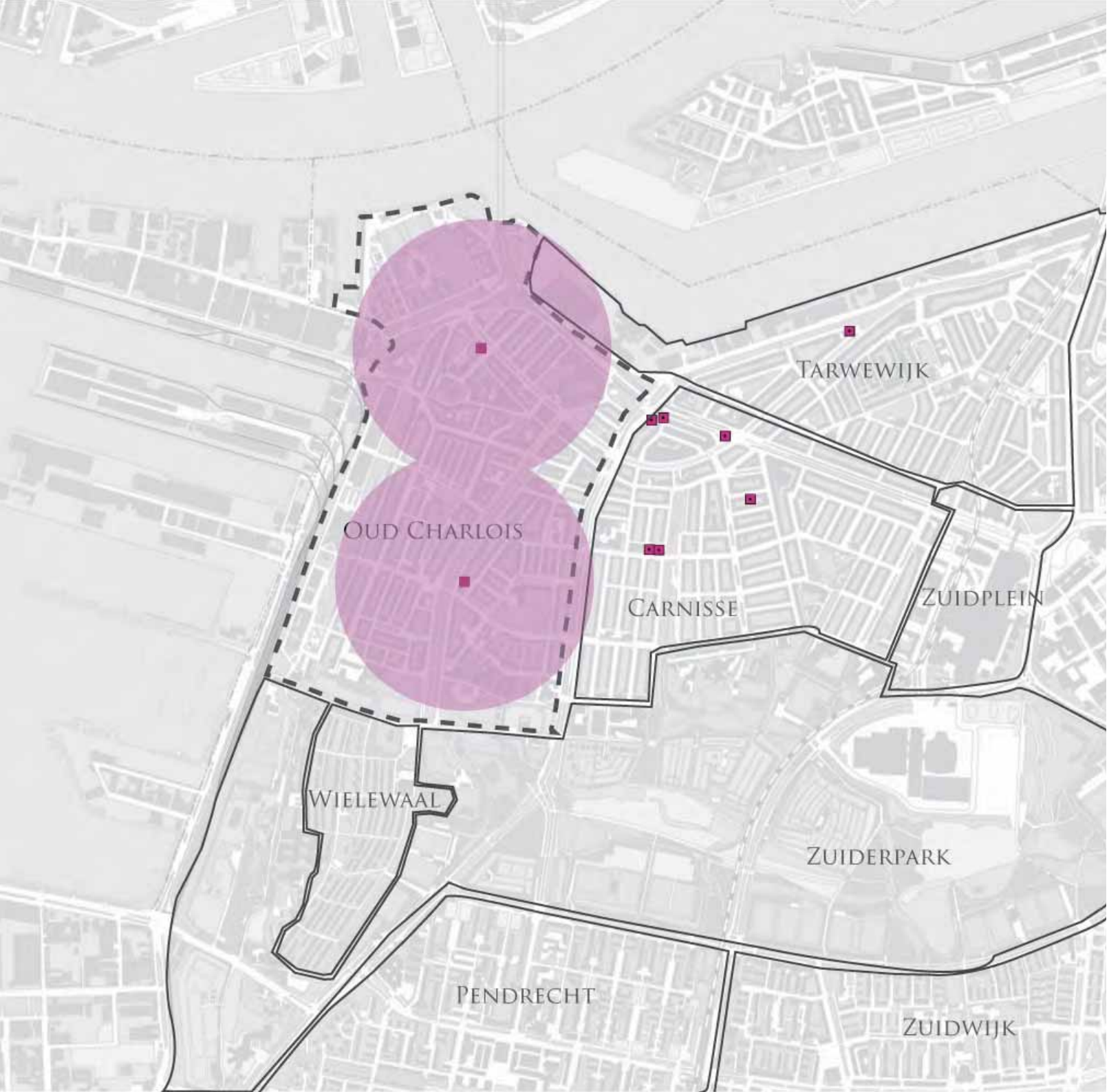
ocial articipation

e en

ype o transportation
aily busline
re uent aily busline
on aily ast busline
ra line
etroline ras usli n
us ra etro stop

ublic transportation syste in arlois

ore t orou analysis o t e trans portation syste in t e istrict o arlois resulte in an en ance ent o t e result o t e city public transportation syste at is t e act t at ui plein represents t e local centre o t e area as ost o t e transport lines pass ro t at loca tion t is i portant to pinpoint t at in t e stu y area o u arlois t ere are t o bus lines one o ic reac es ui plein an t e less re uent ea s to t e centre as ell as t e tra line ile t e ras usli n passes ro ui plein is su ests t at t ere are i portant lines passin t rou t e stu y area o e er as a ore entione people on t use o ten public transportations eans



Culture accessibility

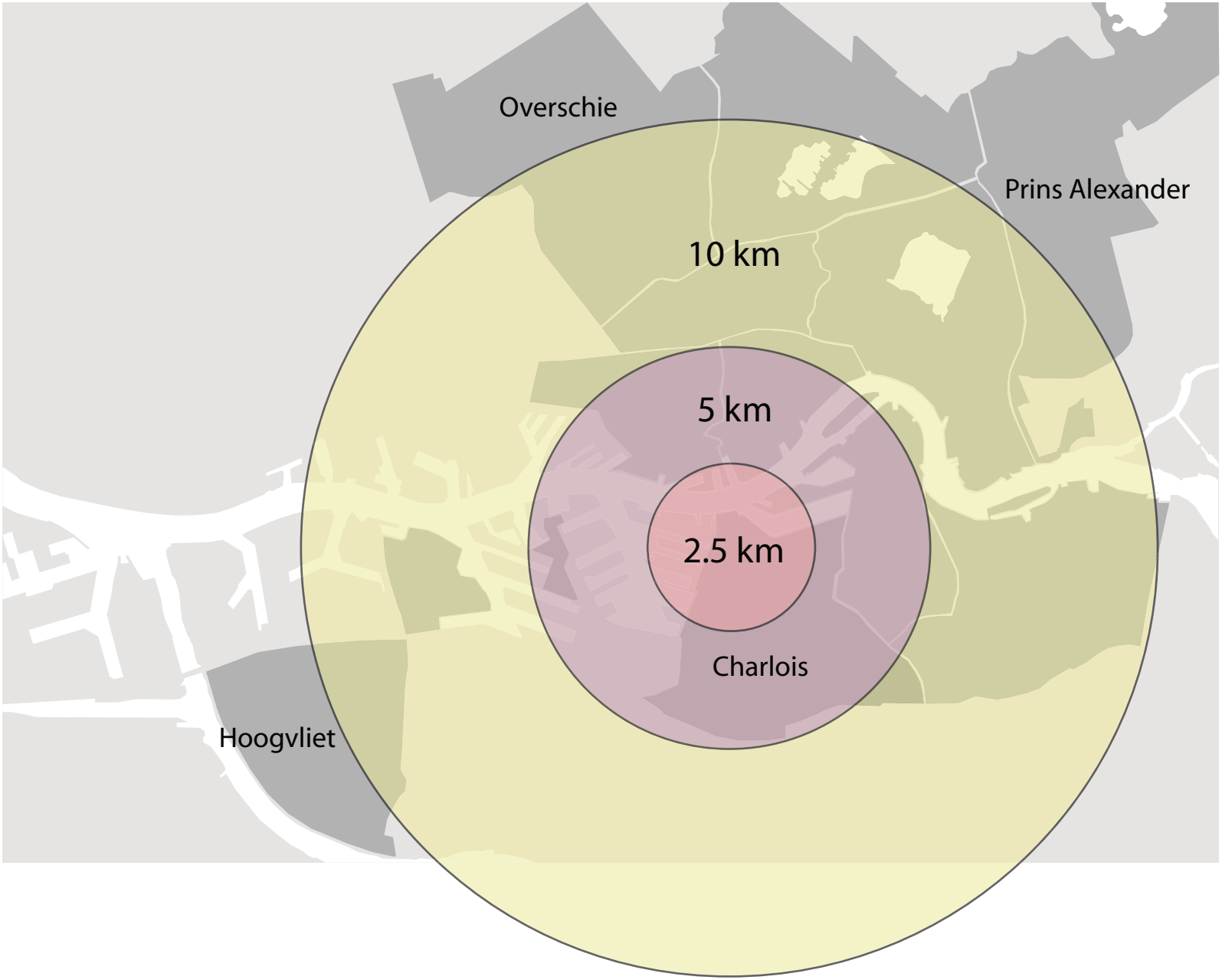
Legend

covered by cultural institutions

cultural institutions

Parameters

The circle radius of the cultural institutions is 400m (5min walk).



Mobility motivation

Legend

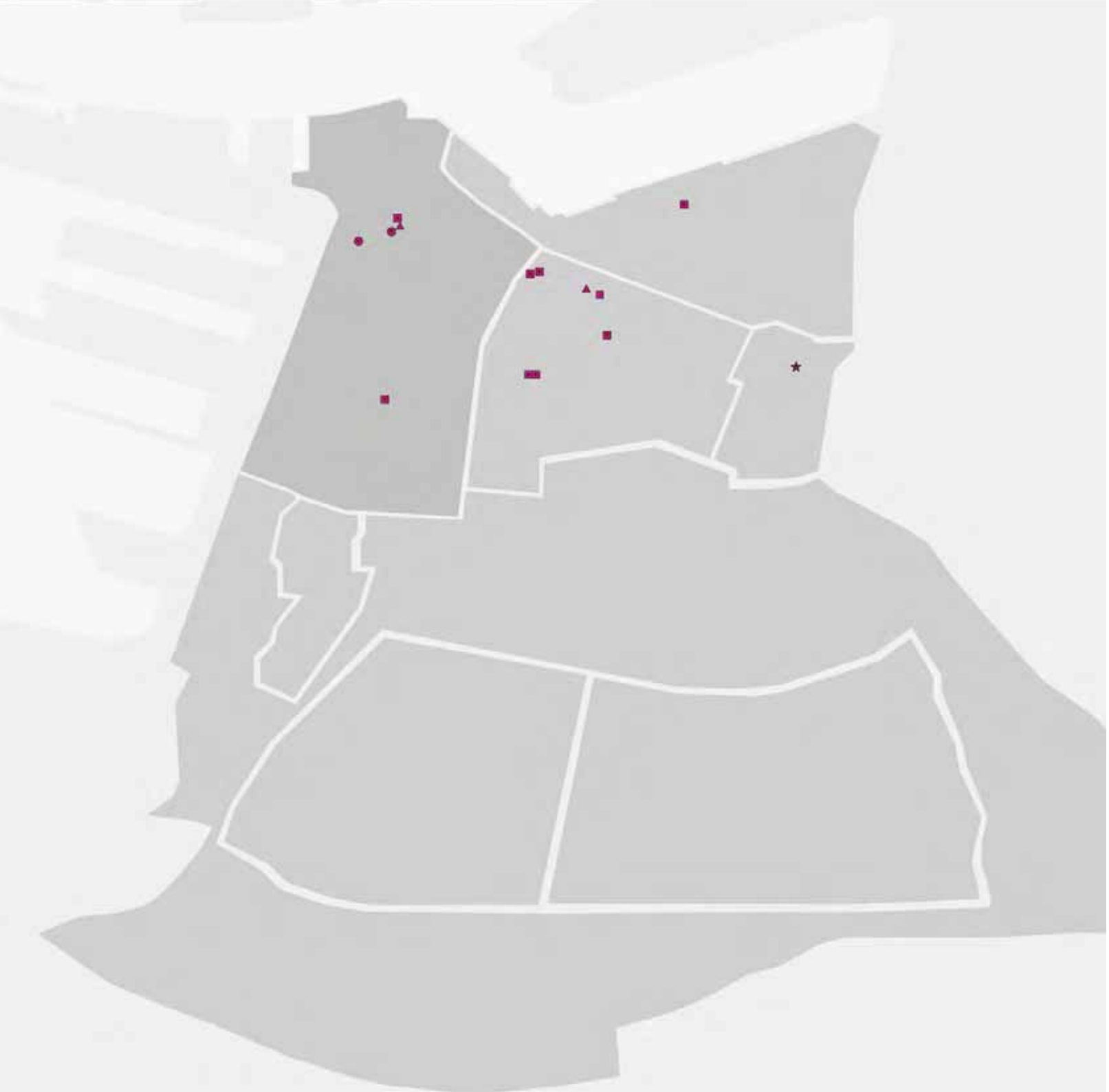
- 10 km; Rotterdam and periphery
- 5 km; Bigger districtzone
- 2,5 km; Neighborhood and district

Distance based on motive

	Charlois	Overschie
Work	9,9	5,8
Work visits	0,8	1,5
(health)service	2,5	0,9
Shopping	1,3	1,6
Education	1,5	1,3
Family visits	4,6	9,9
Social recreation	1,5	1,3
Touring / walking	1,3	2,9
Other	0,5	0,9

For a big part of the inhabitants from Oud-Charlois, Zuidplein is the place for shopping and meeting each other, instead of the Lijnbaan in the city-centre.

There is also a low mobility outside the district for visiting relatives and for social recreation. The inhabitants stay mostly inside the neighborhood. There are some strong communities and relatives live in the neighborhood. This is, for instance, different than in Overschie.



Cultural Facilities

Legend

- r anisation
- ibrary
- eater
- ine a
- t er acilities

	Number of Facilities
Tarwewijk	1
Carnisse	7
Zuidwijk	-
Oud-Charlois	5
Wielewaal	-
Zuidplein	1
Pendrecht	-
Zuiderpark	-
Heijplaat	-
Average	1.5

ource unicipality o otter a

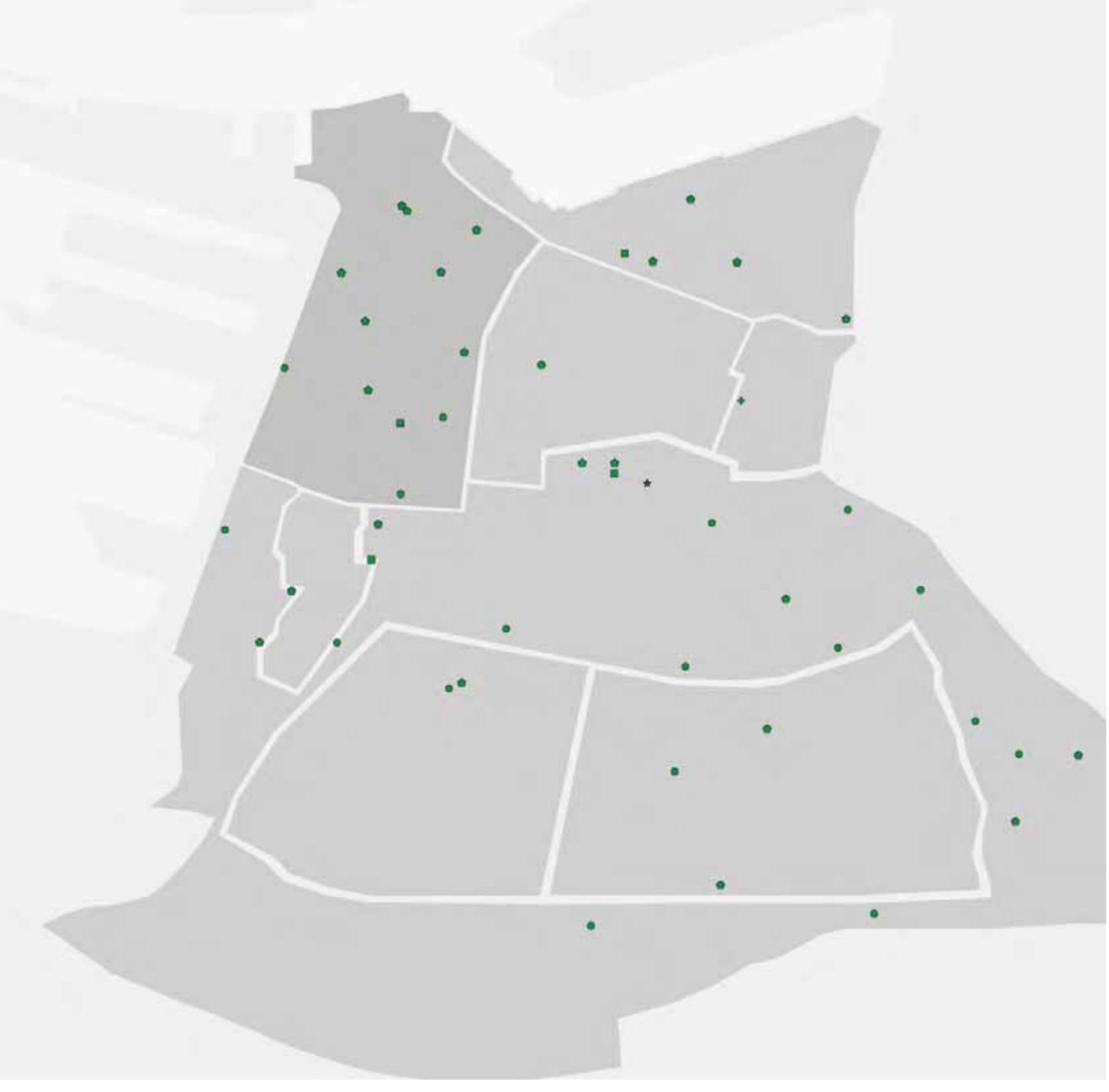
Catering Facilities

Legend

- Restaurants / Bars

	Number Facilities
Tarwewijk	-
Carnisse	23
Zuidwijk	7
Oud-Charlois	25
Wielewaal	-
Zuidplein	11
Pendrecht	3
Zuiderpark	-
Heijplaat	-
Average	7.7

ource unicipality o otter a



ports Facilities

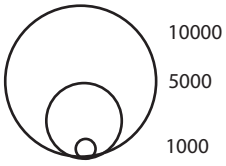
Legend

- Playgrounds
- Sports Center
- Tennis and Squace Center
- Swimming Pool
- Other Sport FAcilities

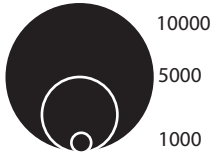
	Number Facilities
Tarwewijk	5
Carnisse	1
Zuidwijk	3
Oud-Charlois	12
Wielewaal	-
Zuidplein	1
Pendrecht	2
Zuiderpark	23
Heijplaat	5,22

ource unicipality o otter a

People working and living



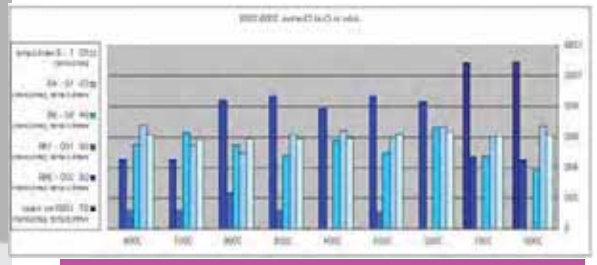
Working people



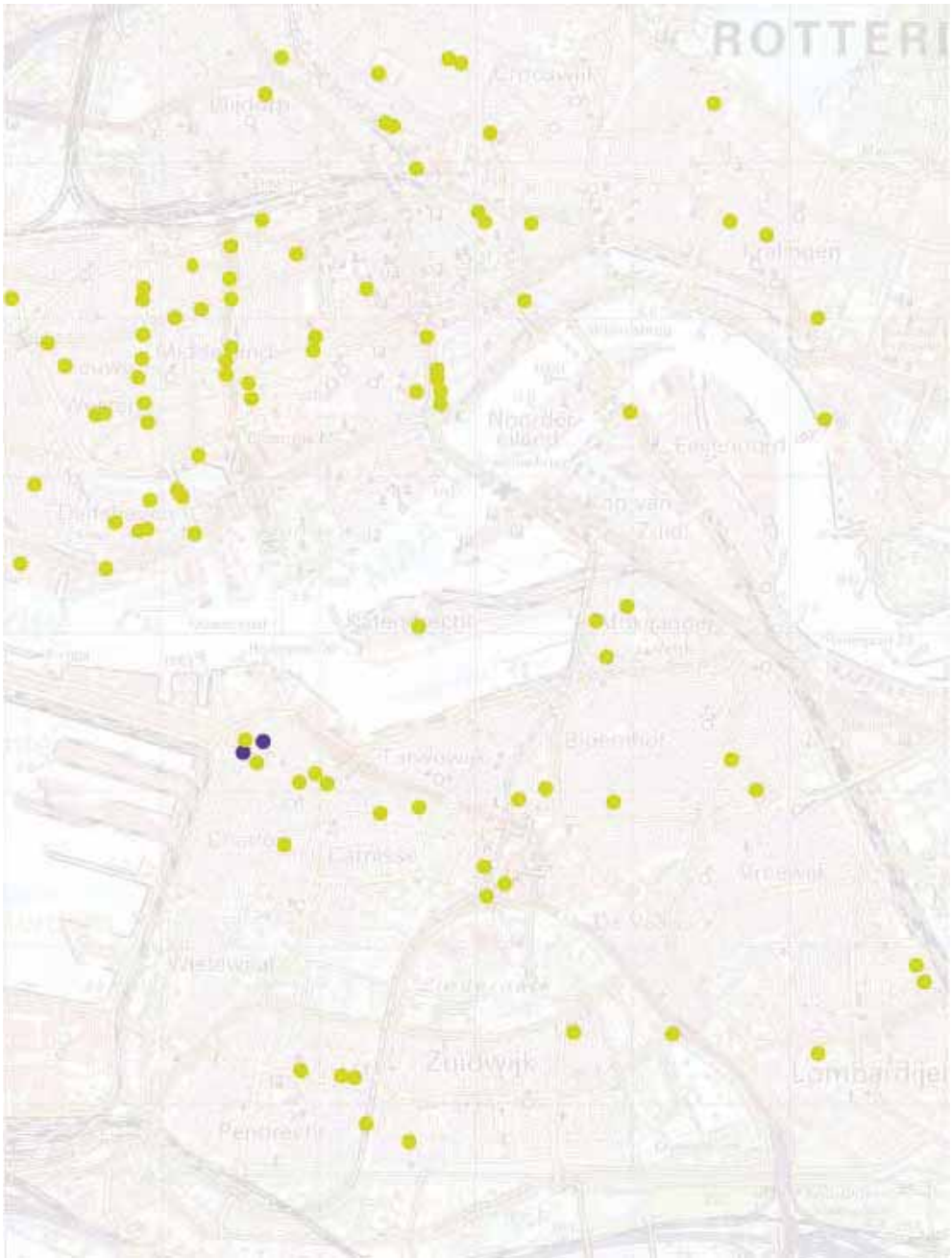
Living people

people working vs living

	living	working
Tarwewijk	10799	1883
Carnisse	9960	942
Zuidwijk	12160	3386
Oud-Charlois	12595	2421
Wielewaal	955	22
Zuidplein	1068	3386
Pendrecht	11895	1346
Zuiderpark	1250	3257
Heijplaat	1610	199
Total	62292	15335



Demography - 1/20000 - Working/Living



Social Facilities

Legend

Facilities for homeless people, addicts, people with mental problems etc.

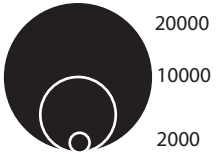
Organizations

Facilities - 1/40000 - Social network

SOCIAL NETWORK

Shops (charlois)

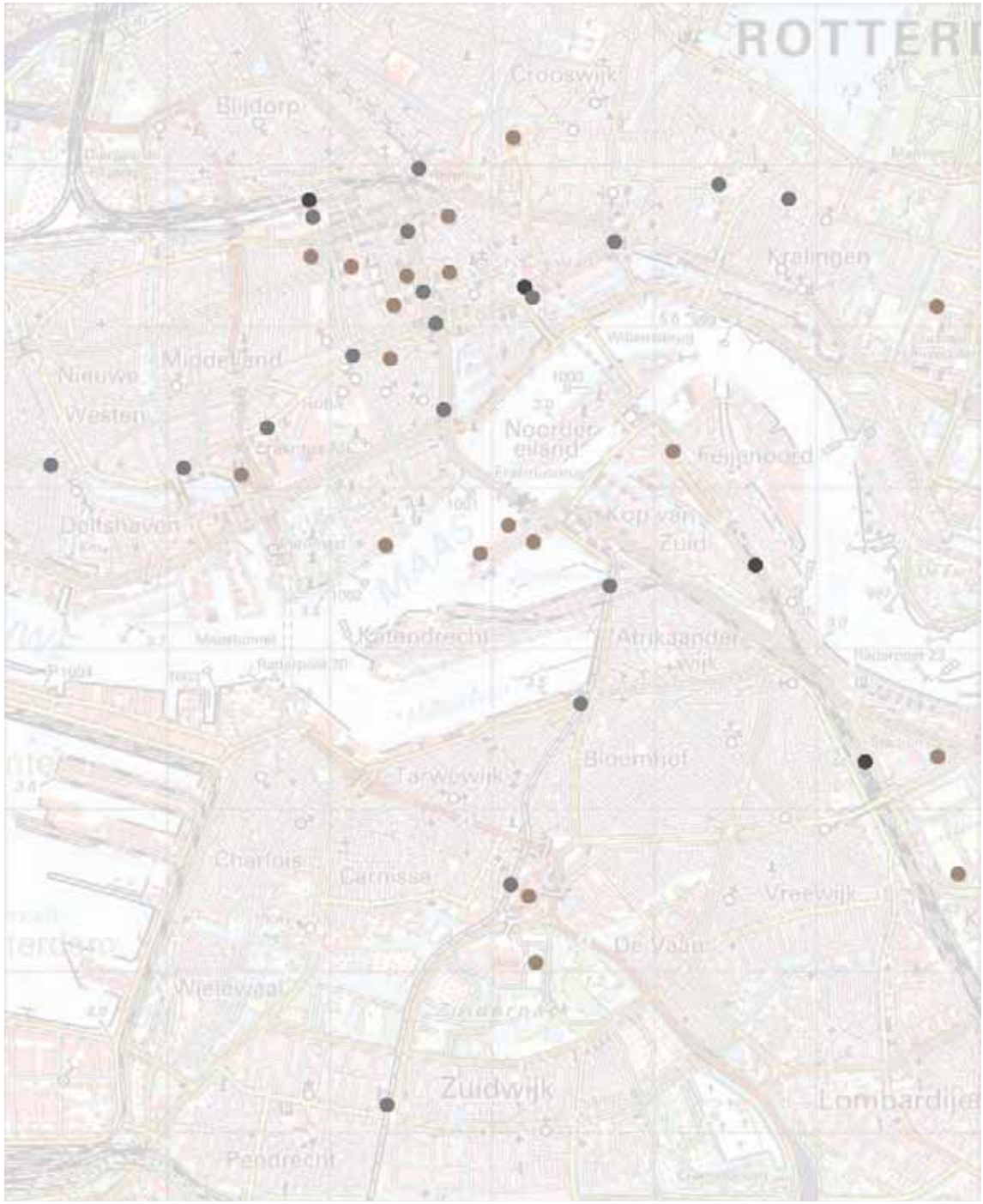
Legend



square metres of shoping area

Shopping

	number of shops	square metres
Tarwewijk	113	6.499
Carnisse	177	10.618
Zuidwijk	122	8.626
Oud-Charlois	133	6.333
Wielewaal	1	-
Zuidplein	209	46.050
Pendrecht	99	9.046
Zuiderpark	31	254
Heijplaat	11	441
Total	62292	15335



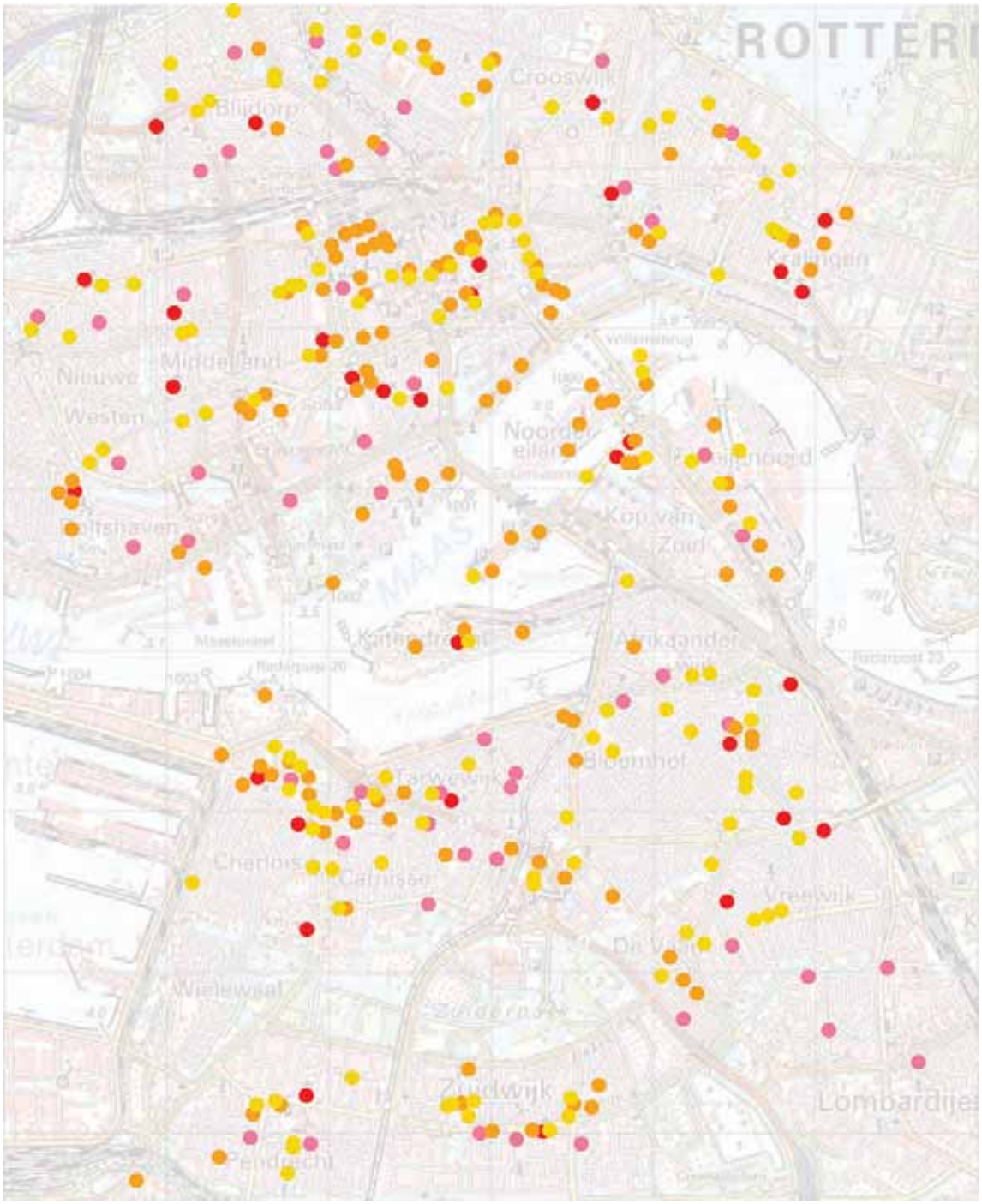
ublic ranspor- tation arking

Legend

- train station
- tro station
- Par in acility

Sociale Participation - 1:40000 - Traffic

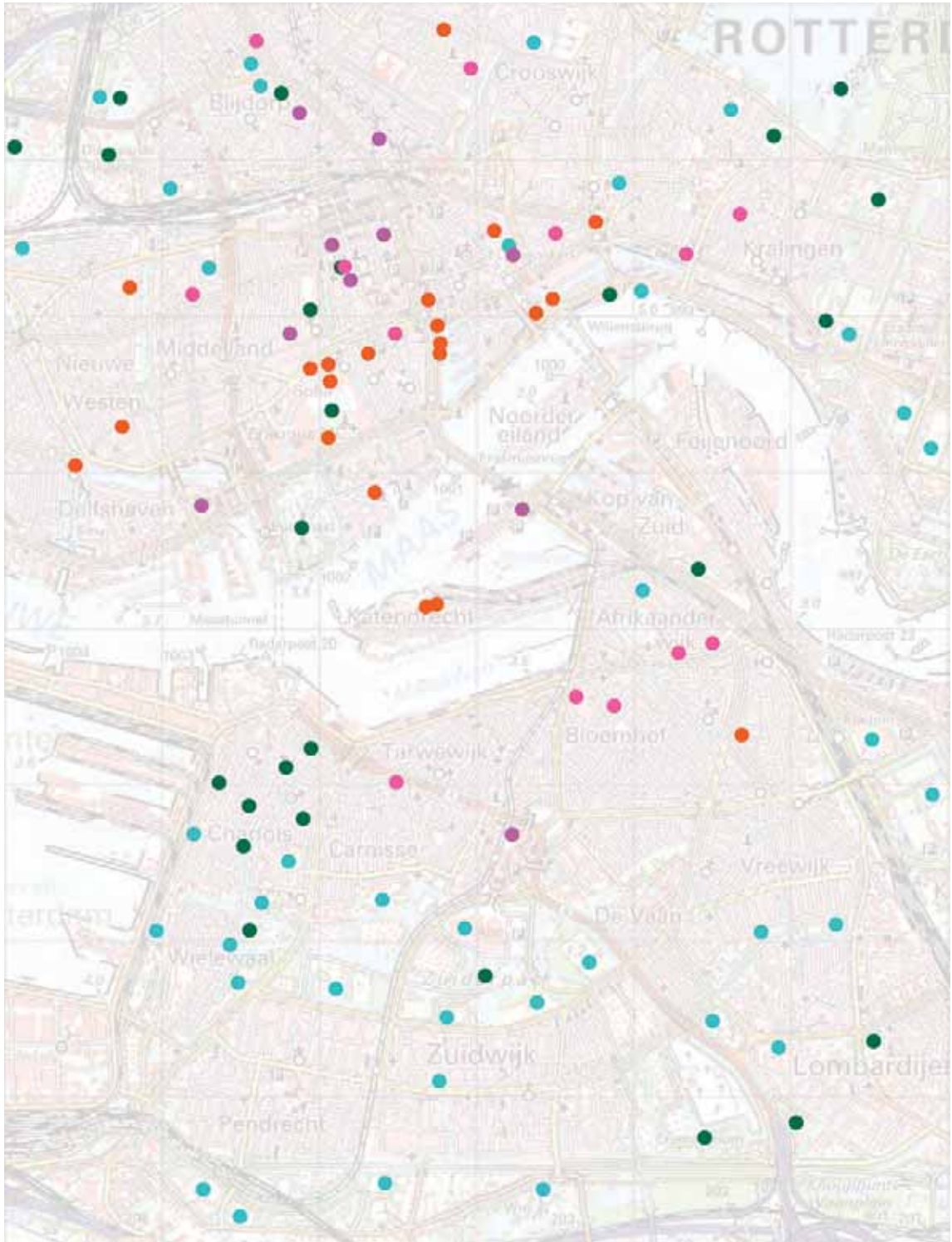
Social Networks



Meeting oint in Neighborhood

Legend

- Ch rch
- os
- sta rant Co ar
- hop



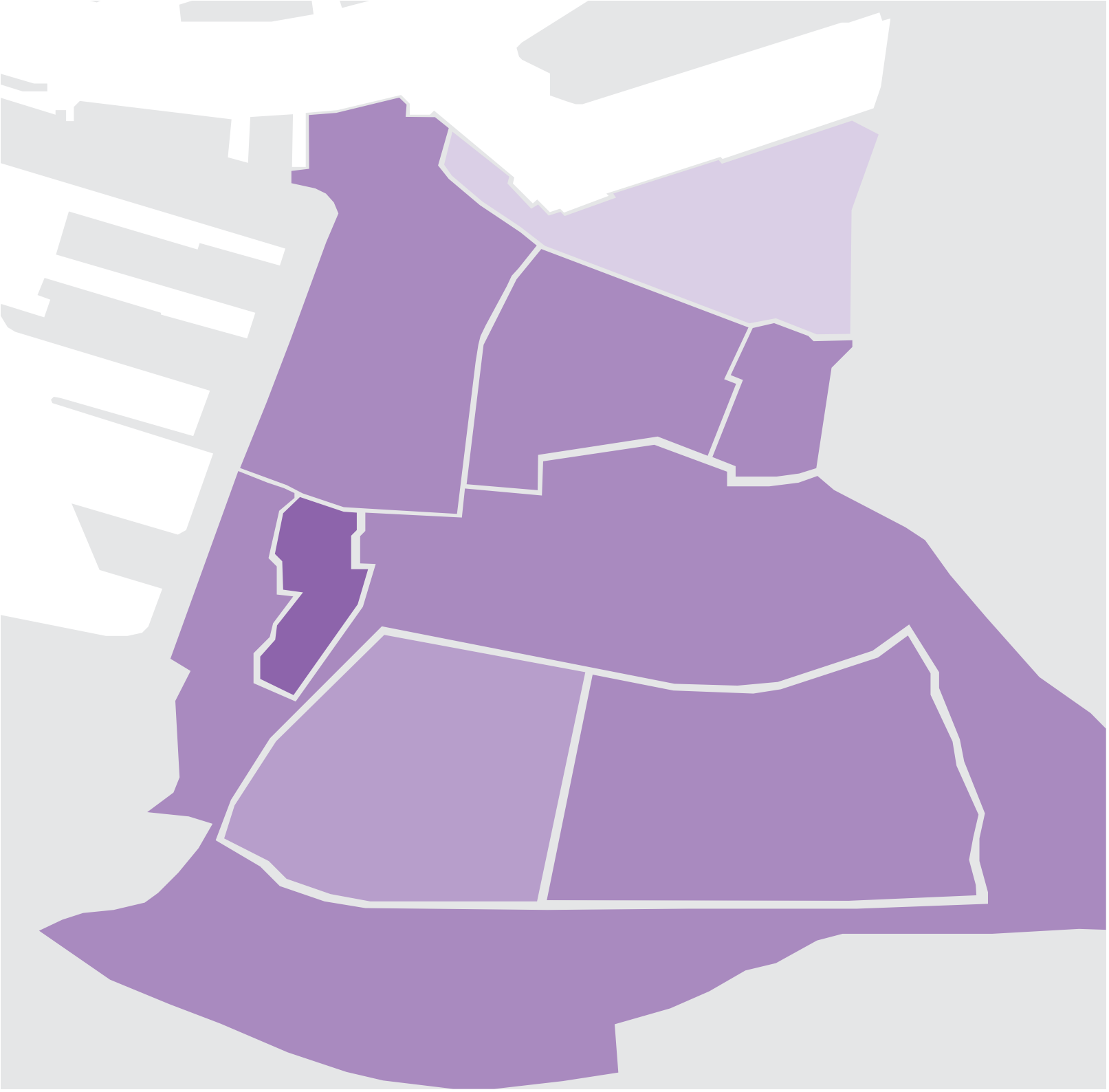
Recreation and Sport faciity

Legend

- s m
- Cin ma
- h at r
- port
- Par Play ro n

Sociale articipation - 1 0000 - leisure

Social Networks



Social Participation

Legend

- Participation rate above 7
- Participation rate between 6 and 7
- Participation rate between 5 and 6
- Participation rate under 5

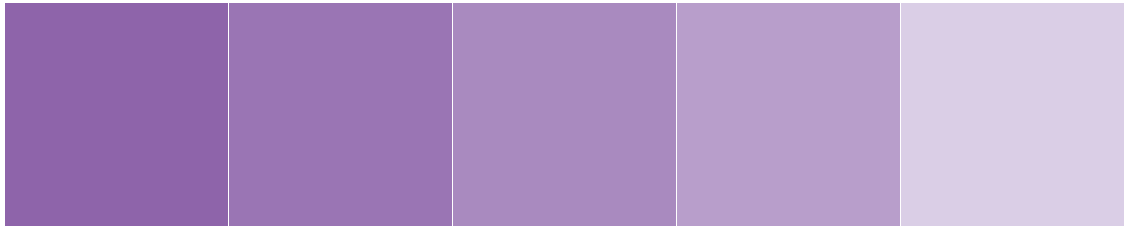
Social commitment

	Participation
Tarwewijk	4,8
Carnisse	6
Zuidwijk	6,9
Oud-Charlois	6,7
Wielewaal	7,8
Zuidplein	6,6
Pendrecht	5,8
Zuiderpark	6,6
Heijplaat	6,9
Average	6,3

Social participation is divided in three categories, informal care, ! " #$%& ' ()%* + , % +& ' + / " 0 0)&0 ' %&* + & ' +1$2-)1&(/ &4 ##, (' +2, 1' - + " %%$0 2' (1+5(" 0 +1& &1&/ 1+5(" 0 +& ' +6$' 1&/ %%,)(' 3+7 . ' + / " 0 0)& 0 ' %&+)1+ - ' 8% - +, 1+9 2')%* +)%* " #! ' - +)%+%*)* . 2" $(. " " - +, / &!)&' 1+ , % +& ' +,)0 +' 5+, %)%* (' , 1' - +#! , 2)#)& 3+

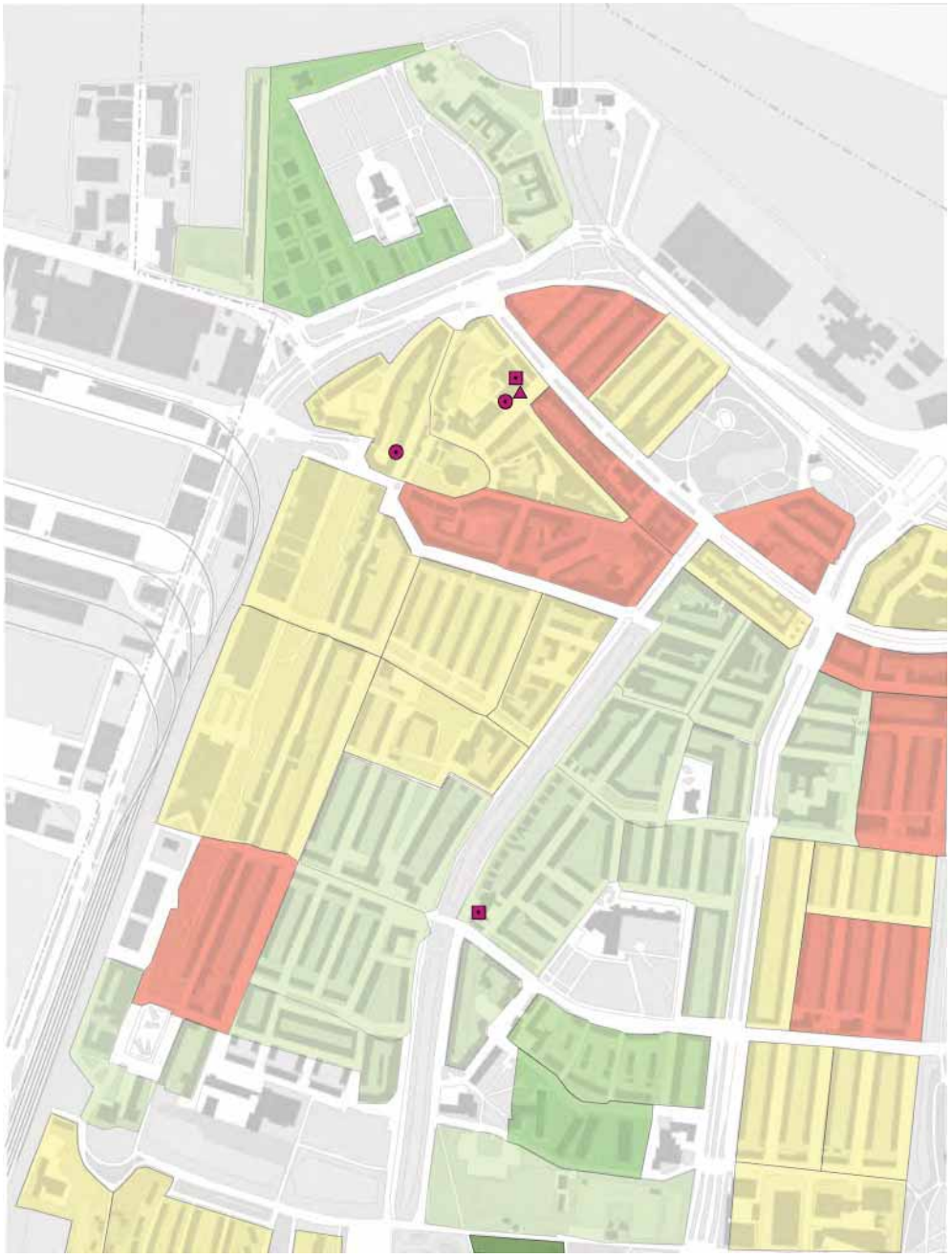
Identity - Charlois - Social Participation

IDENTITY



SOCIAL PARTICIPATION

Oud-Charlois



Violence - Cultural Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Cultural Facilities

- Organisations
- Library
- Other Cultural Facilities

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

2step-Analysis of Facilities from Boergoensestraat/vliet road

Legend

- Main Road
- 1 step
- 2 step

Cultural Facilities

- Organisations
- Library
- Other Cultural Facilities

Accessibility of Cultural Facilities

	Main Road	1 step	2 step
Organisation			1
Library			1
Other Cultural Facilities	1	1	

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public

2step-Analysis of Cultural Facilities from Wolphaertbocht road

Legend

- Main Road
- 1 step
- 2 step

Cultural Facilities

- Organisations
- Library
- Other Cultural Facilities

Accessibility of Cultural Facilities

	Main Road	1 step	2 step
Organisation		1	1
Library		1	
Other Cultural Facilities	1		

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public

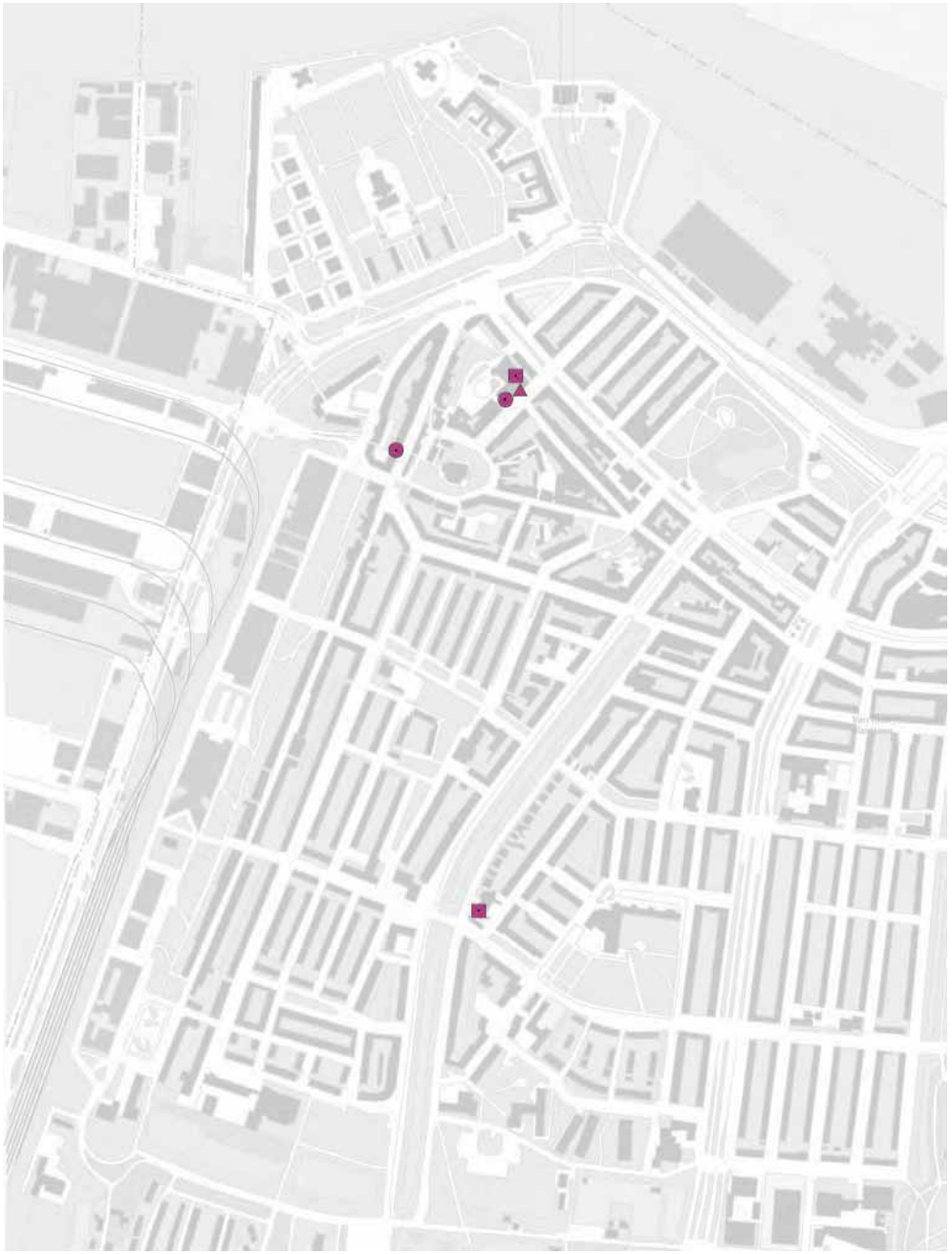
Relation of Public Green to Cultural Facilities

Legend

- Public Green
- Cultural Facilities

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public



Cultural Facilities

Legend

- Organisations
- Library
- Other Cultural Facilities

Cultural Facilities

	number
Organisation	2
Library	1
Other cultural facilities	2

ource unicipality o otter a

Violence - Catering Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Catering Facilities

- Restaurants / Bars

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

2step-Analysis of Catering Facilities from Boergoensestraat/vliet road

Legend

- Main Road
- 1 step
- 2 step

Catering Facilities

- Restaurants / Bars

Accessibility of Catering Facilities

	Main Road	1 step	2 step
Restaurants / Bars	5	7	7

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Economy
Private / Public

2step-Analysis of Catering Facilities from Wolphaertbocht road

Legend

Main Road
1 step
2 step

Catering Facilities

Restaurants / Bars

Accessibility of Catering Facilities

	Main Road	1 step	2 step
Restaurants / Bars	6	9	7

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Economy
Private / Public

Relation of Public Green to Catering Facilities

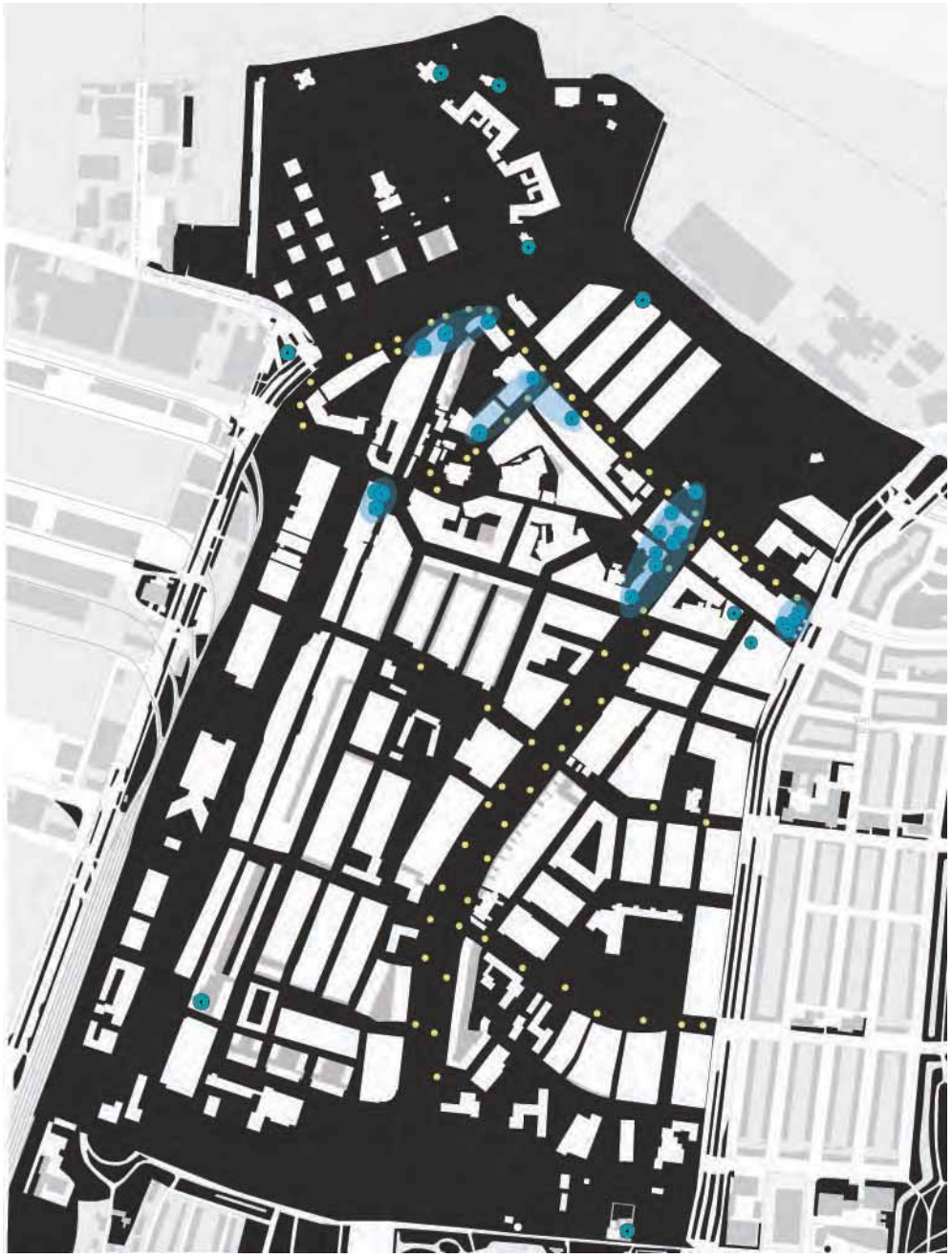
Legend

- Public Green
- Catering Facilities

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation

Private / Public



Use of Catering Facilities at Nigthtime

Legend

Type of Space

- Public
- Private
- Semi-Private

Catering Facilities

- Restaurants / Bars
- Flow of People

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation

Private / Public

Use of Catering Facilities at Daytime

Legend

Type of Space

- Public
- Private
- Semi-Private

Catering Facilities

- Restaurants / Bars
- Flow of People

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation

Private / Public

Catering Facilities

Legend

- Restaurants / Bars

Catering Facilities

	number
Restaurants / Bars	30

ource unicipality o otter a

Facilities - Oud-Charlois - Economy

Private / Public

Violence - Sports Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Sports Facilities

- Playgrounds
- Sports Center
- Other Sport Facilities

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

Sports Facilities

Legend

- Playgrounds
- Sports Center
- Other Sport Facilities

Sports Facilities

	number
Playground	8
Sports Center	1
Other Sport facilities	3d

ource unicipality o otter a

Facilities - Oud-Charlois - Social Participation

Private / Public

2step-Analysis of Sport Facilities from Wolphaertbocht road

Legend

Main Road
1 step
2 step

Sports Facilities

Playgrounds
Sports Center
Other Sport Facilities

Accessibility of Sports Facilities

	Main Road	1 step	2 step
Playground		2	2
Sports Center			
Other Sports Facilties			

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public

2step-Analysis of Sport Facilities from Boergoensestraat/vliet road

Legend

- Main Road
- 1 step
- 2 step

Sports Facilities

- Playgrounds
- Sports Center
- Other Sport Facilities

Accessibility of Sports Facilities

	Main Road	1 step	2 step
Playground	1		5
Sports Center		1	
Other Sports Facilties		1	2

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public

Relation of Public Green to Sports Facilities

Legend

- Public Green
- Sports Facilities

ource unicipality o otter a
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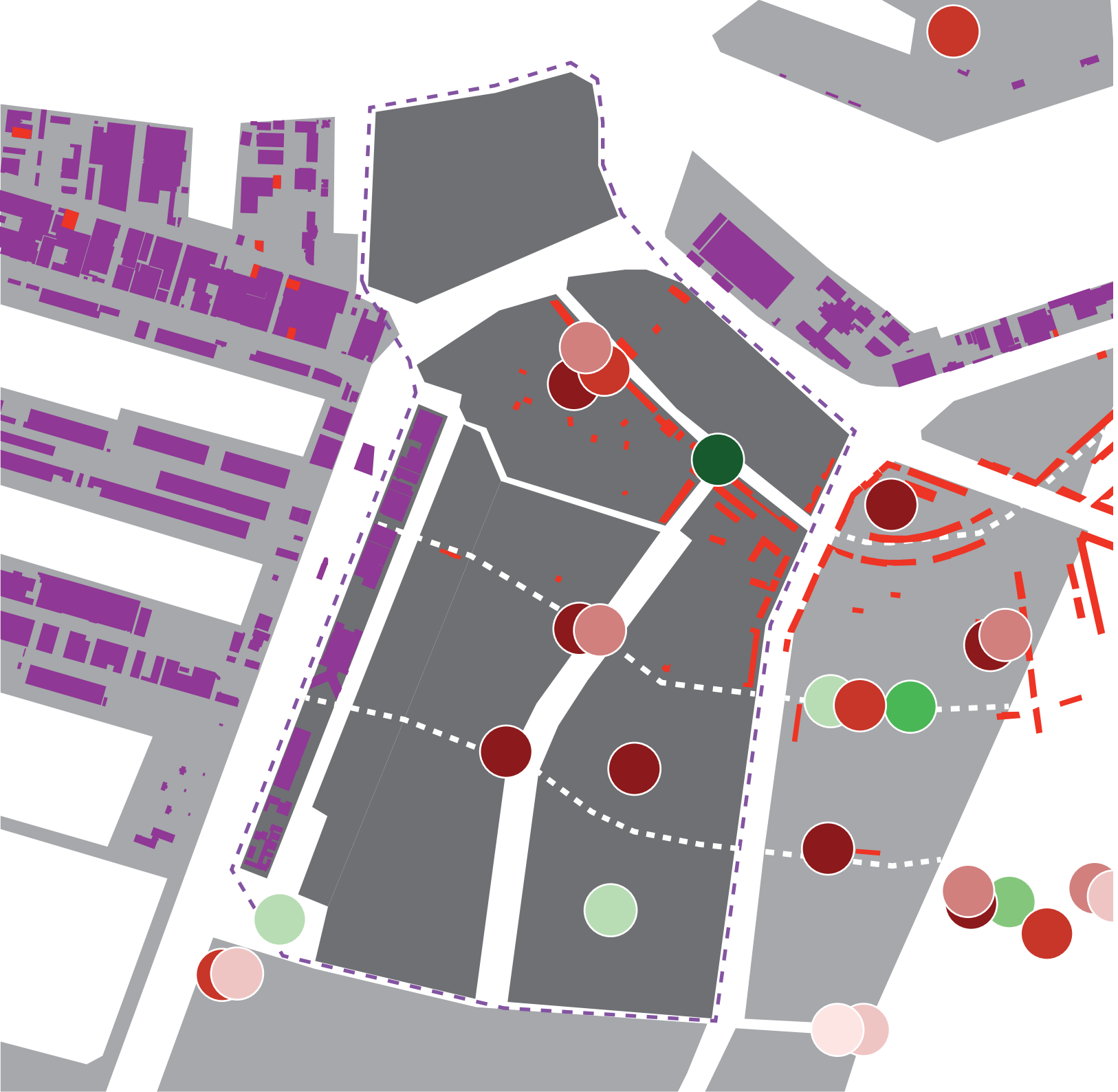
Facilities - Oud-Charlois - Social Participation

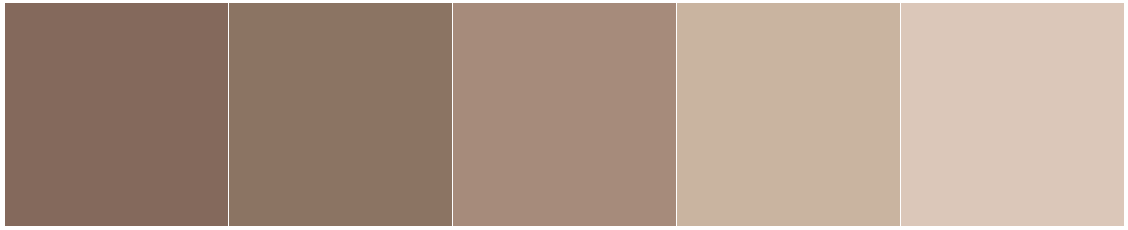
Private / Public



Social Functions

Legend

- shops
- industry
- schools
- bso
- day-care
- special education
- special high-school
- farmacie
- health center
- elderly care
- health



ECONOMY

Rotterdam

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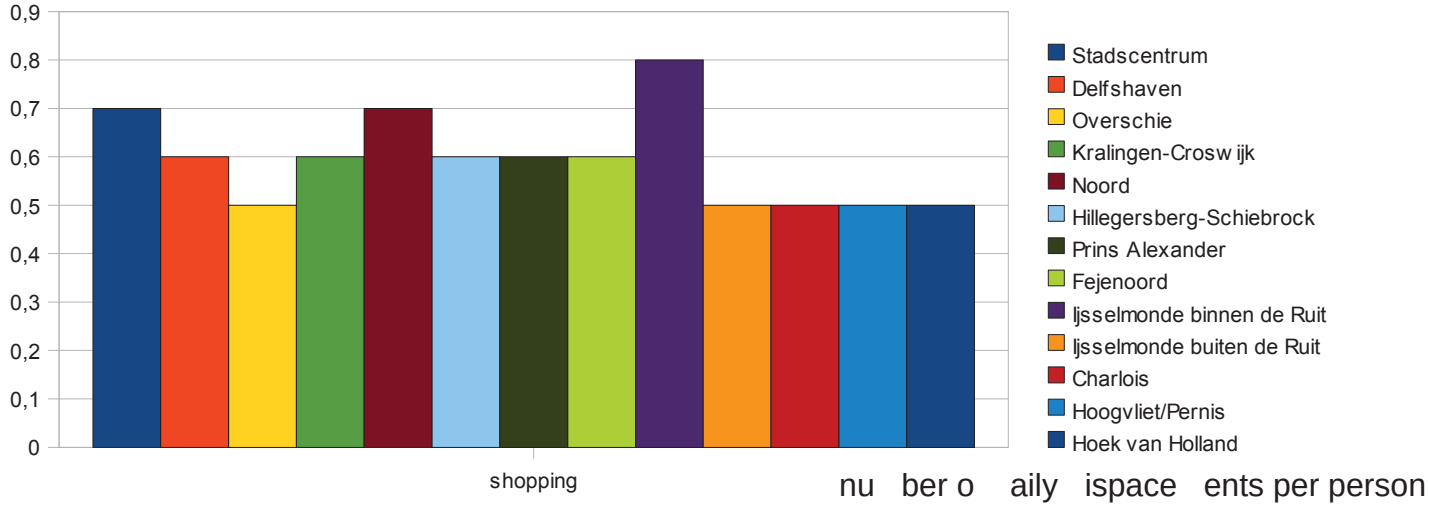

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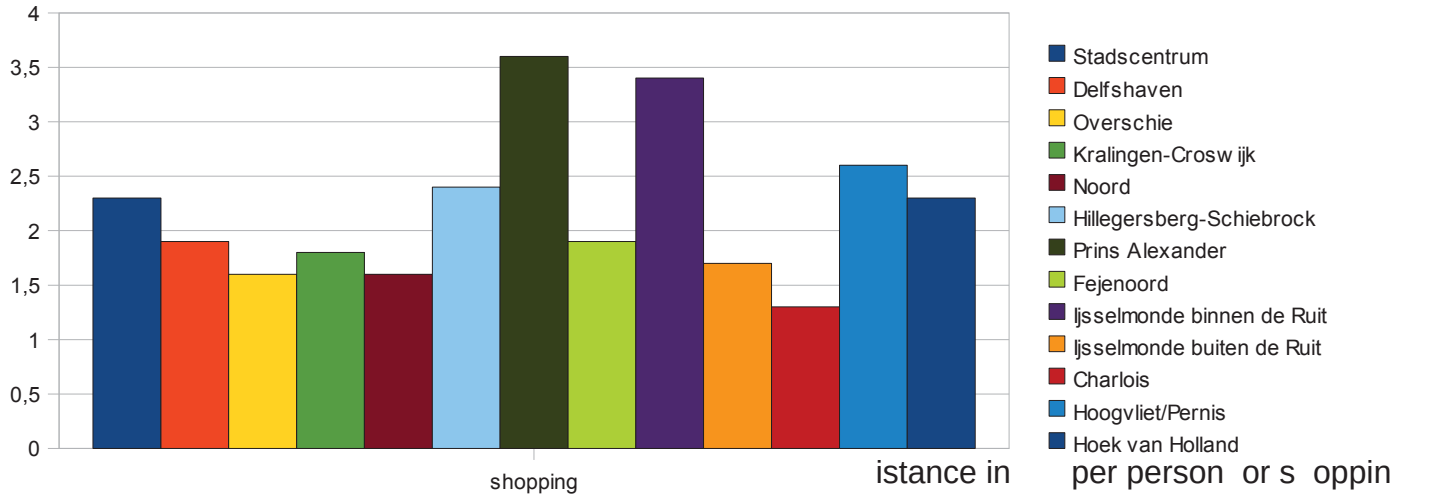

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Vacancy

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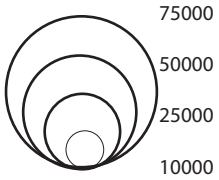
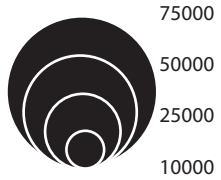
working and living



Working people



Living people

Economy of Rotterdam

	living	working
Stadscentrum	30071	80839
Delfshaven	69903	14055
Overschie	15768	6558
Noord	49429	11515
Hillegersberg-Schiebroek	40846	15108
Kralingen-Crooswijk	49216	23673
Prins Alexander	89225	27848
Feijenoord	68914	16376
IJsselmonde	57986	15269
Charlois	62292	15335
Pernis	4737	614
Hoogvliet	34910	9567
Havengebied	251	61148

Demography - 1/50000 - Working/Living

SOCIAL NETWORK

Creative ndustry

ype of alleries in Rotterdam, 1 ~2007

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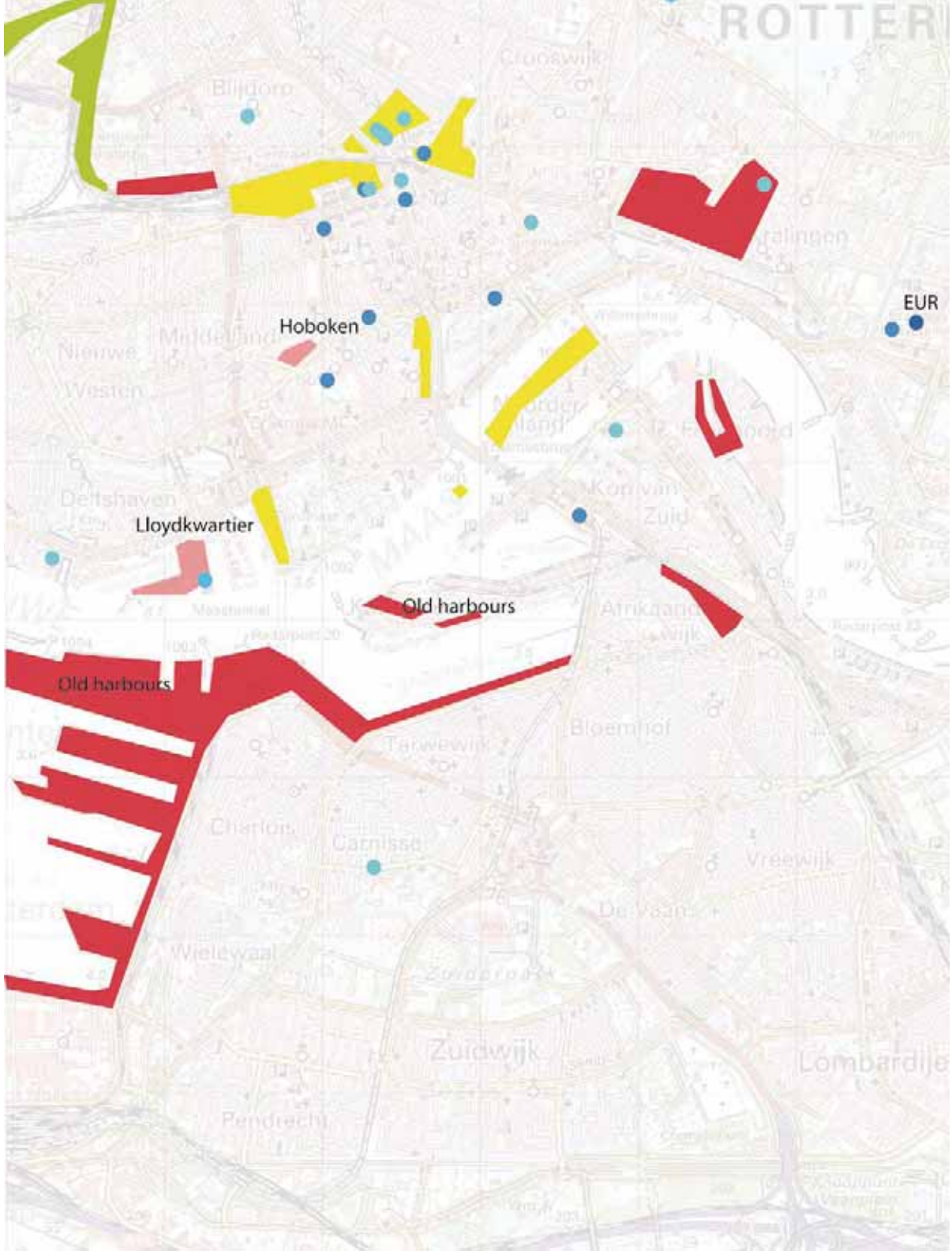
Shops

Legend

square metres of shoping area

Shopping

	number of shops	square metres
Stadscentrum	1.930	219.977
Delfshaven	1.166	59.851
Overschie	161	6.606
Noord	958	77.663
Hillegersberg-Schiebroek	522	47.165
Kralingen-Crooswijk	644	42.382
Prins Alexander	668	168.214
Feijenoord	1.068	73.204
IJsselmonde	415	66.850
Charlois	896	87.867
Pernis	32	1.892
Hoogvliet	299	41.578
Havengebied	225	29.406



conomic policy

Legend

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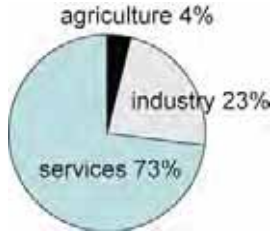
Post industry economy



nowledge economy policy

unicipality o otter a plans to siti ulate a lon ter balance econo y ro t in trac s

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obo en area near t e re ional airport

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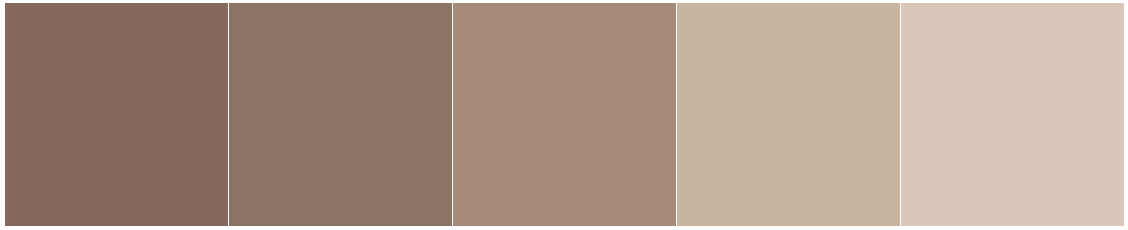
or ers

Policy Government proposal

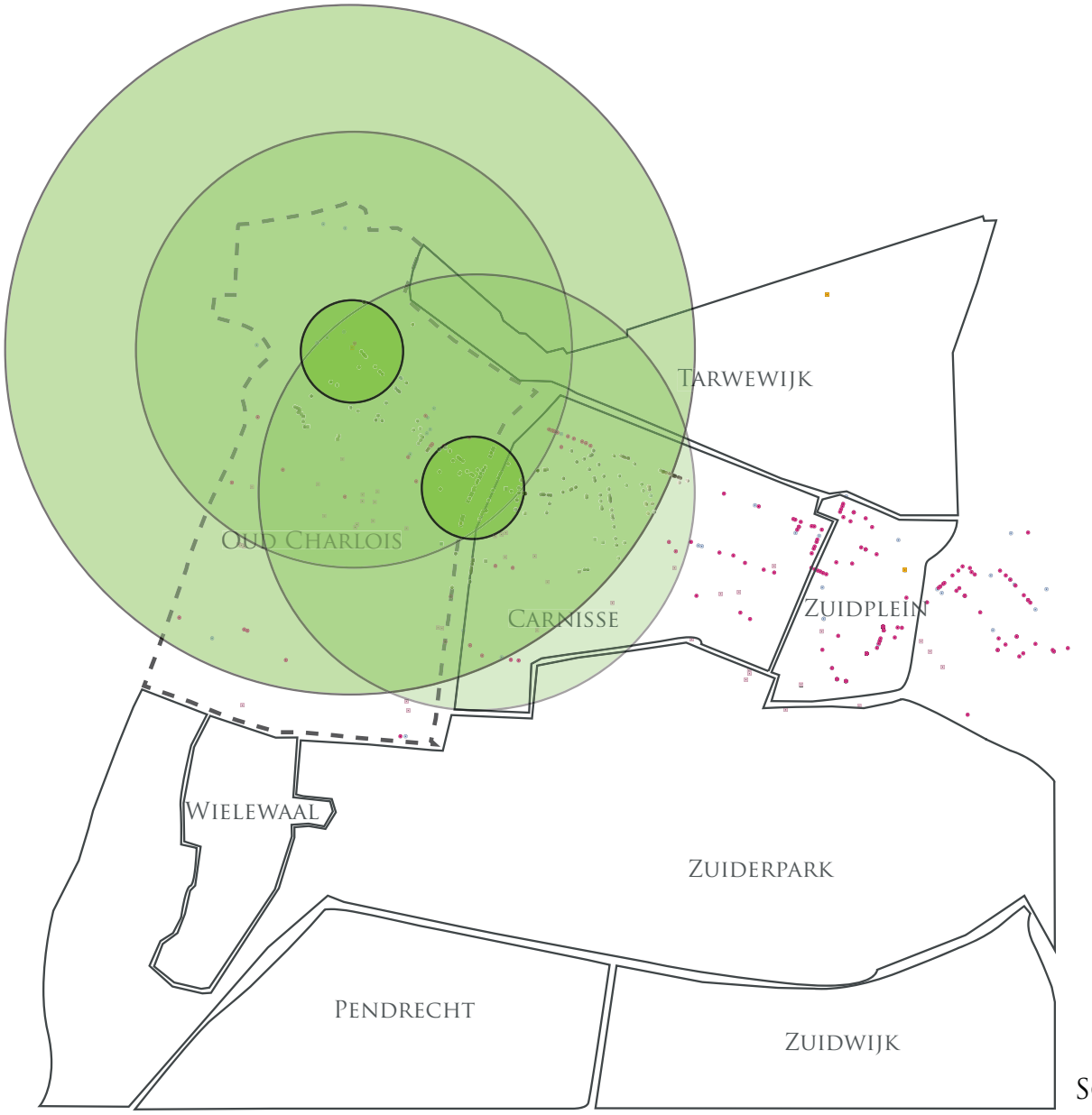
OCI L N WO



ECONOMY

Charlois

Accessibility



Scale : 1/20.000

Legend

- 100 meter
- 700 meter
- 1000 meter

Supermarket accessibility

The average walkable distance from a house to a supermarket is approximately 1000 meter. There are actually two supermarkets in Oud-Charlois; one in the north and one at the edge at the east of the neighborhood. They both cover the whole neighborhood. The maximum distance to walk home with two heavy bags would be 100 meter or less.

Vacancy

Legend

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Vacancy

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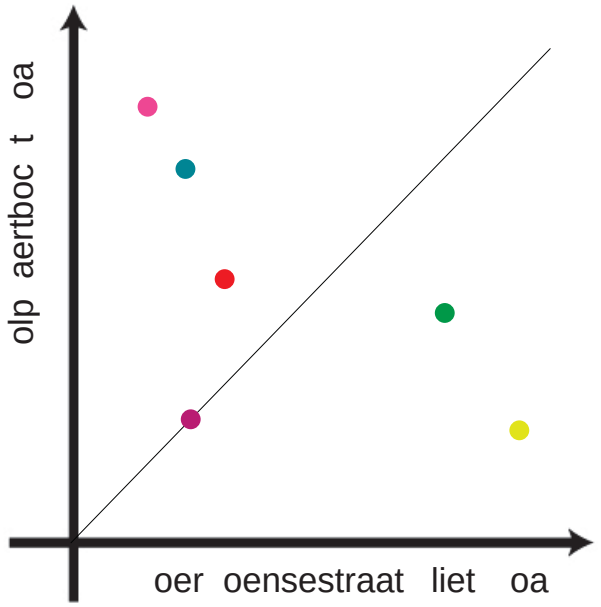
Public - private - Rotterdam - Vacancy
PUBLIC / PRIVATE

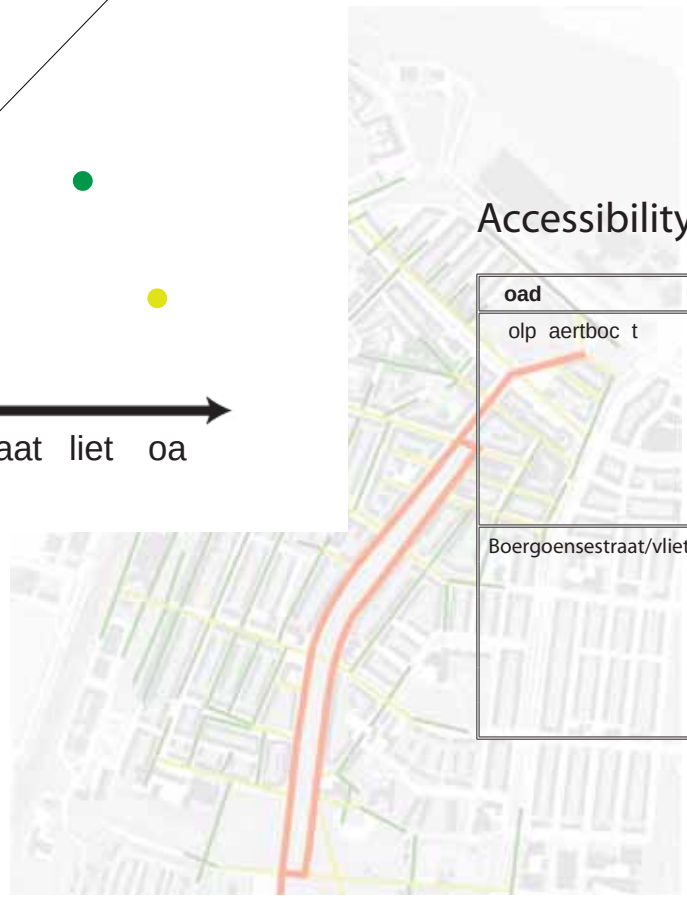
2step-Analysis of Cultural Facilities from Wolphaert-bocht & Boergoensestraat/ vliet road



Legend

Facilities

- Shopping
- Catering
- Health & Care
- Education
- Culture
- Sports



Accessibility of Facilities

oad	Facilities	ain oad	step	step
olp aertboc t	oppin	21	24	20
	aterin	6	11	6
	ealt are	1	4	1
	ucation	0	3	1
	ulture	-	3	1
	ports	1	4	3
Boergoensestraat/vliet	oppin	13	39	27
	aterin	5	11	8
	ealt are	0	2	4
	ucation	3	1	3
	ulture	1	-	2
	ports	0	2	

Facilities - Oud-Charlois - Social Participation

Private / Public

ource unicipality o otter a
roup nalysis

Violence - Public Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Public Facilities

- Educational
- Cultural
- Sports
- Health
- Care

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

Violence - Private Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Private Facilities

- Shopping
- Catering

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

Violence - Shopping Facilities

Legend

Violence

- 0<=2
- >2 EN <=15
- >15 EN <=31
- >31

Shopping Facilities

- Super Market
- Daily Goods Shops
- Non Daily Goods Shops

ource unicipality o otter a

Facilities - Oud-Charlois - Safety

Private / Public

2step-Analysis of Shopping Facilities from Boergoens-estraat/vliet road

Legend

Main Road
1 step
2 step

Shopping Facilities

Super Market
Daily Goods Shops
Non Daily Goods Shops

Accessibility of Shopping Facilities

	Main Road	1 step	2 step
Super Market			2
Daily Goods Shops	4	9	6
Non Daily Goods Shops	8	33	19

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Economy
Private / Public

2step-Analysis of Shopping Facilities from Wolphaertbocht

Legend

Main Road
1 step
2 step

Shopping Facilities

Super Market
Daily Goods Shops
Non Daily Goods Shops

Accessibility of Shopping Facilities

	Main Road	1 step	2 step
Super Market		1	1
Daily Goods Shops	7	5	4
Non Daily Goods Shops	14	14	30

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Economy
Private / Public

Relation of Public Green to Shopping Facilities

Legend

- Public Green
- Shopping Facilities

ource unicipality o otter a
roup nalysis

Use of Shopping Facilities at Daytime

Legend

- Public
- Private
- Semi-Private

Shopping

- Super Market
- Daily Goods Shops
- Non Daily Goods Shops

Flow of People

ource unicipality o otter a
roup nalysis

Facilities - Oud-Charlois - Social Participation
Private / Public

Shopping Facilities

Legend

- Super Market
- Daily Goods Shops
- Non Daily Goods Shops

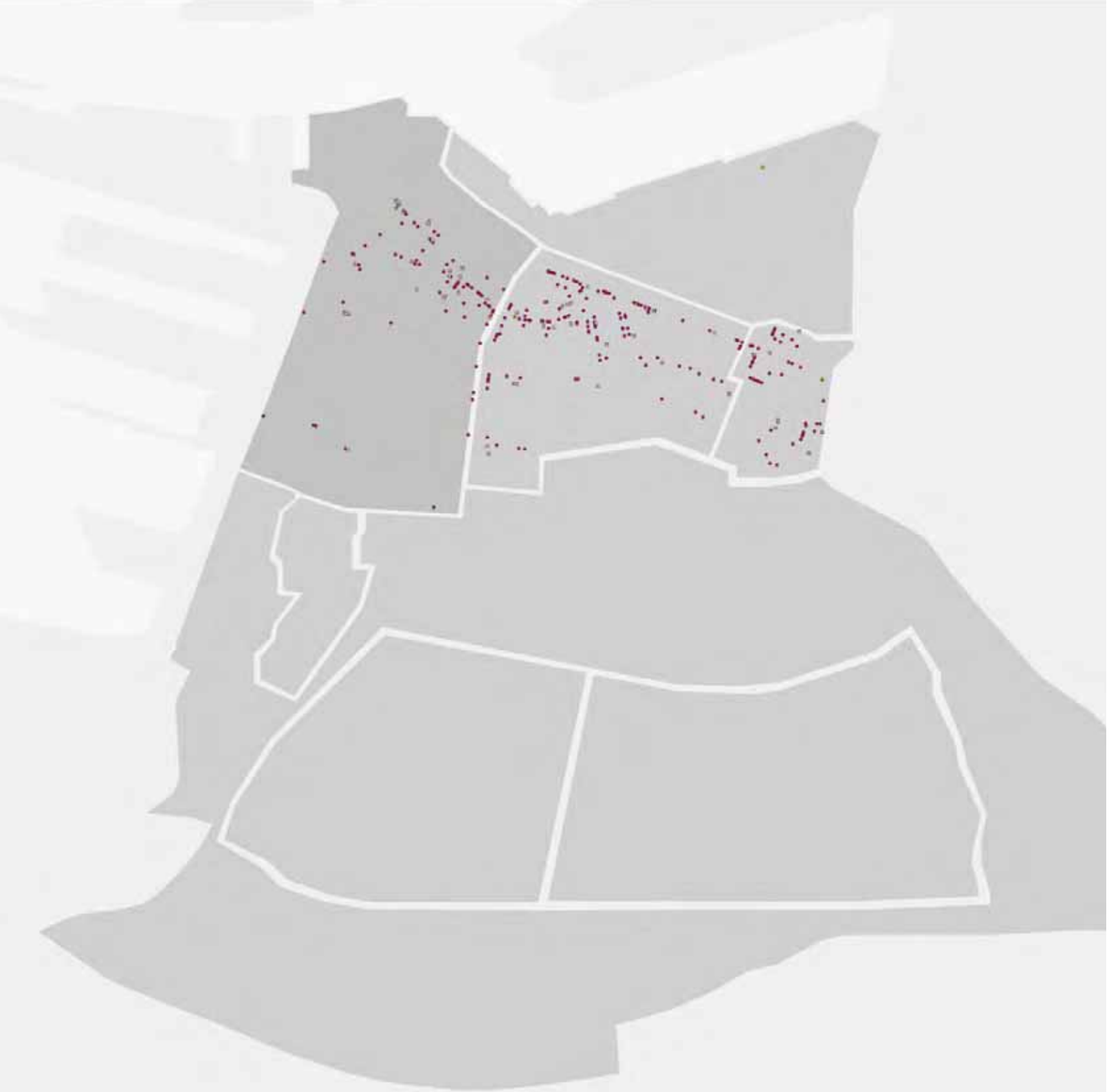
Shopping Facilities

	number
Super Market	2
Daily Goods Shops	22
Non Daily Goods Shops	69

ource unicipality o otter a

Facilities - Oud-Charlois - Economy

Private / Public



hopping Facilities

Legend

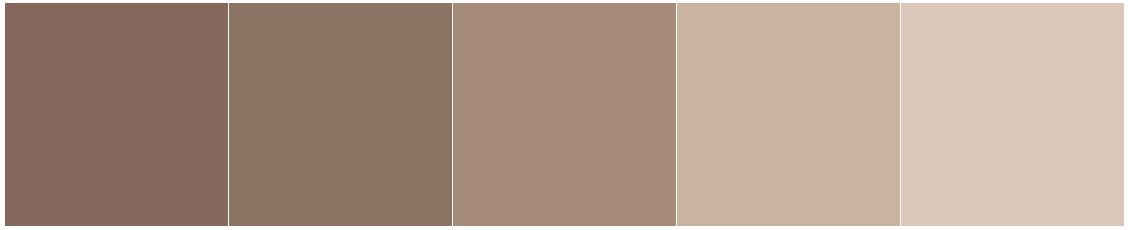
- Super Market
- Daily Goods Shops
- Non Daily Goods Shops

	Number Facilities
Tarwewijk	1
Carnisse	140
Zuidwijk	-
Oud-Charlois	80
Wielewaal	-
Zuidplein	51
Pendrecht	-
Zuiderpark	-
Heijplaat	-
Average	30.2

ource unicipality o otter a

Private / Public - Charlois - Economy

Private / Public



ECONOMY

Oud-Charlois

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PRIVATE / PUBLIC

Groups

Legend

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  estaurannt a e

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trainin or s op eetin bar an
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Groups rtists meeting point

OCI L N WO

Groups

Legend

- urc
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  c ool
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  estaurant a e
  lay roun
  ports eil
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Long stay Dutch

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Groups

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  o unity centre
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  lay roun
  ports eil
  ar

Immigrants

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ey use co unity centre international pri ary sc ool an i sc ool

Groups

Legend

- rtists
- Long stay Dutch
- Immigrants
- Overlap

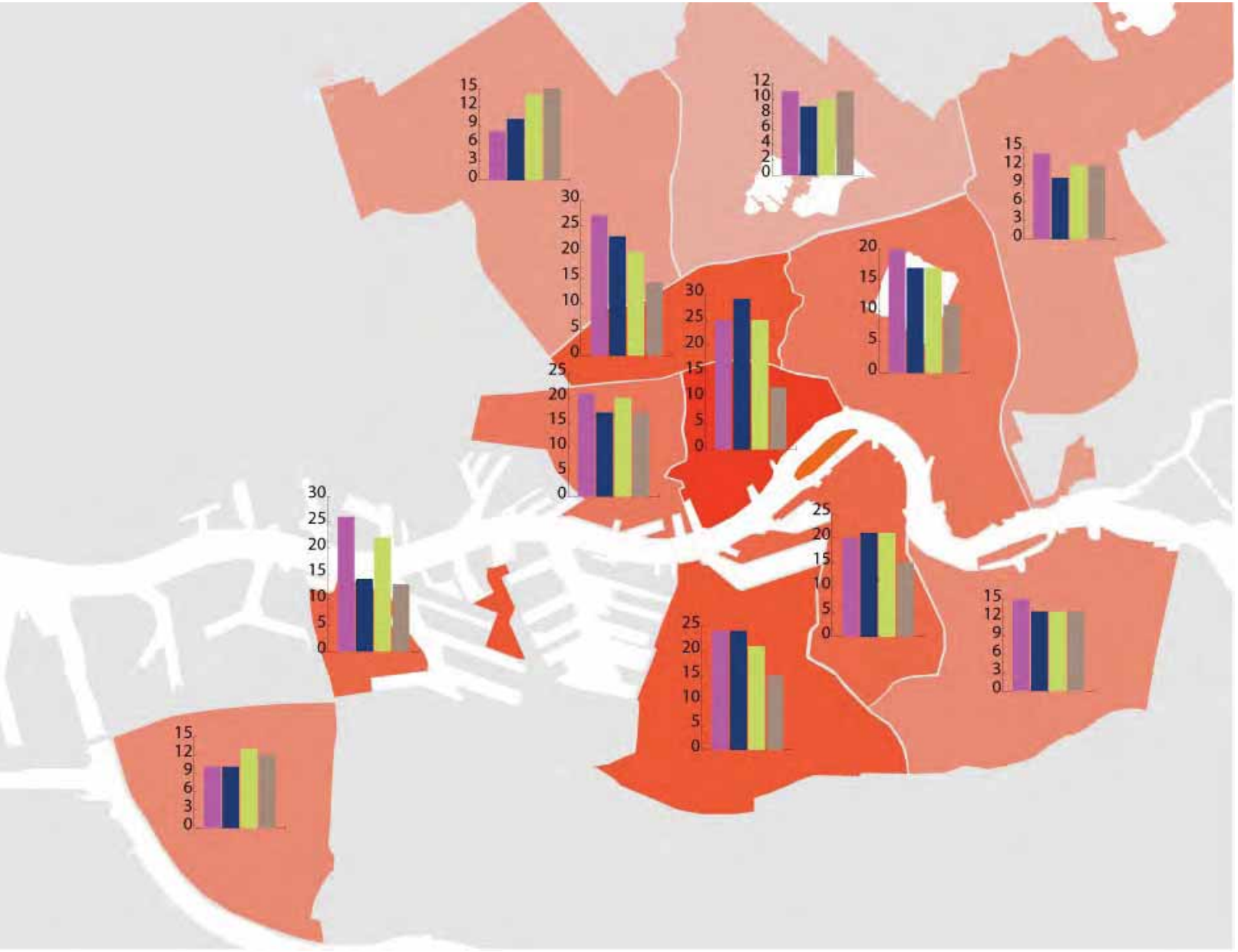
Groups

rtists and immigrants have big overlapped spatial area but without crossover in life e cept cultural inspiration

rtist only share facility like restautants with local long stay Dutch inhabitants

Long stay Dutch share education community service, sports field, play ground and green area with immigrants

owever segregation strongly e iests with language and culture seclusion



afety security

Legend

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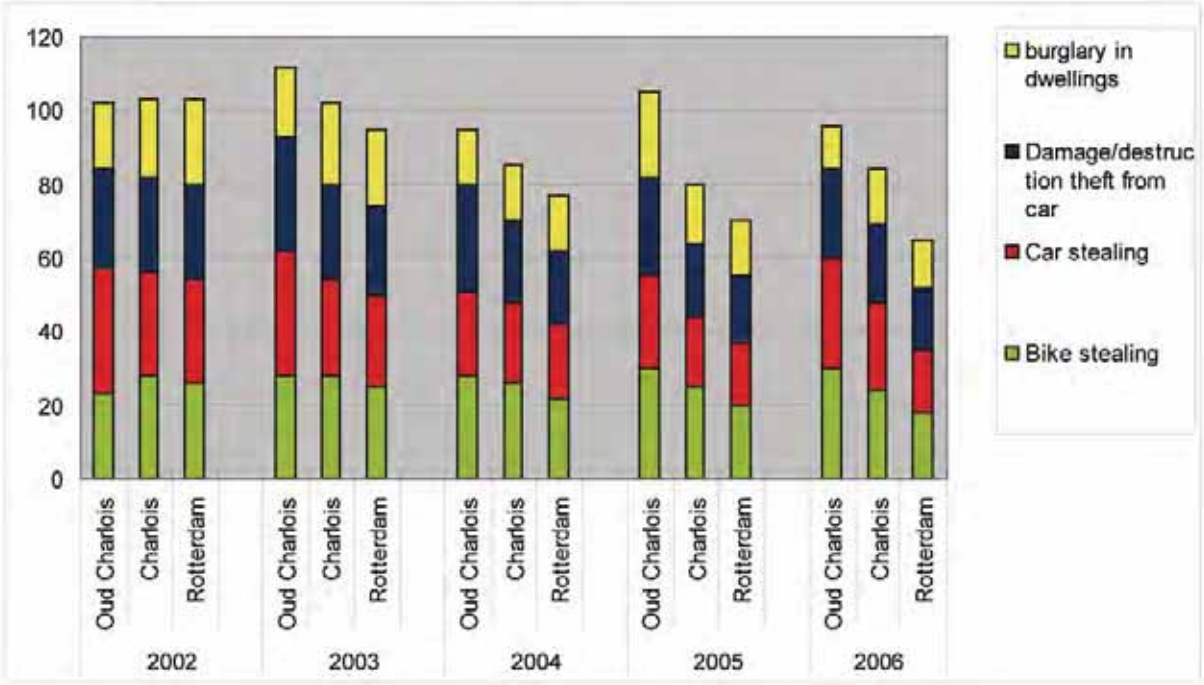
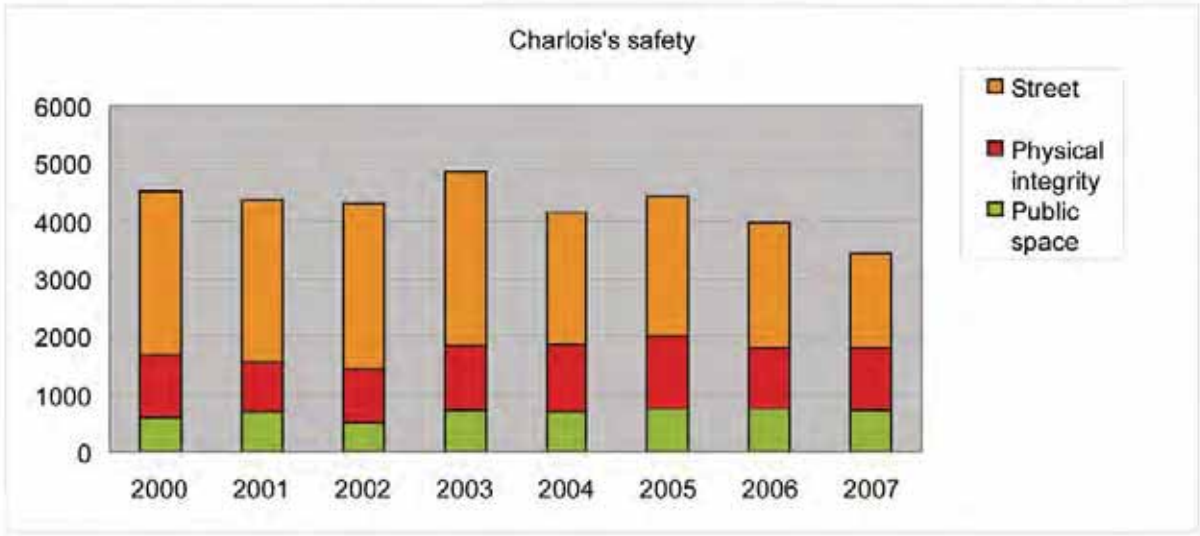
able Data

Diefstal [% personen], 2006 - Deelgemeenten				
	Bike stealing	Car stealing	Destructio n theft from car	Berglary in dwellings
Stadscentrum	25	29	25	12
Delfshaven	21	17	20	11
Overschie	8	10	14	15
Noord	27	23	20	14
Hillegersberg-Schiebroek	11	9	10	11
Kralingen-Crooswijk	20	17	16	11
Prins Alexander	14	10	12	12
Feijenoord	20	21	21	15
IJsselmonde	15	13	13	13
Charlois	24	24	21	15
Pernis	26	14	22	13
Hoogvliet	10	10	13	12
Hoek van Holland	16	9	15	15
Haven/Industrie gebied	-	-	-	-
Onbekend	-	-	-	-
Gemiddelde	18	17	17	13

Safety and security - Diefstal [% personen], 2002-2006 - Deelgemeenten



Safety and security - Charlois 2000-2007 cases reported to police by location



afety security

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o pare it city a era e co position u arlois as less serious robber but ore bi e stealin pobably one by youn people

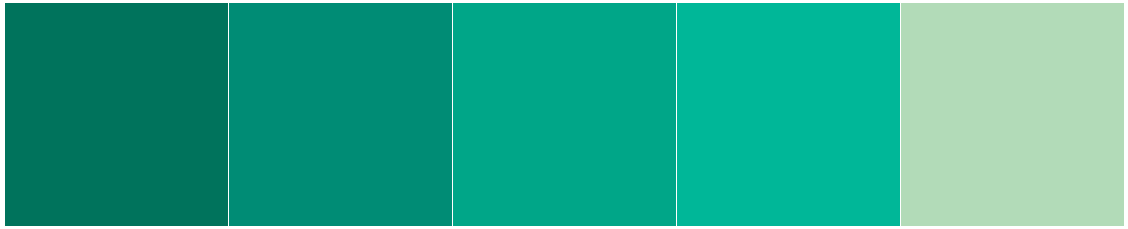
ean ile cri e in street as s ir e since because o police an ca aras

afety and security comparison
OCI L N WO

WOZ

Legend

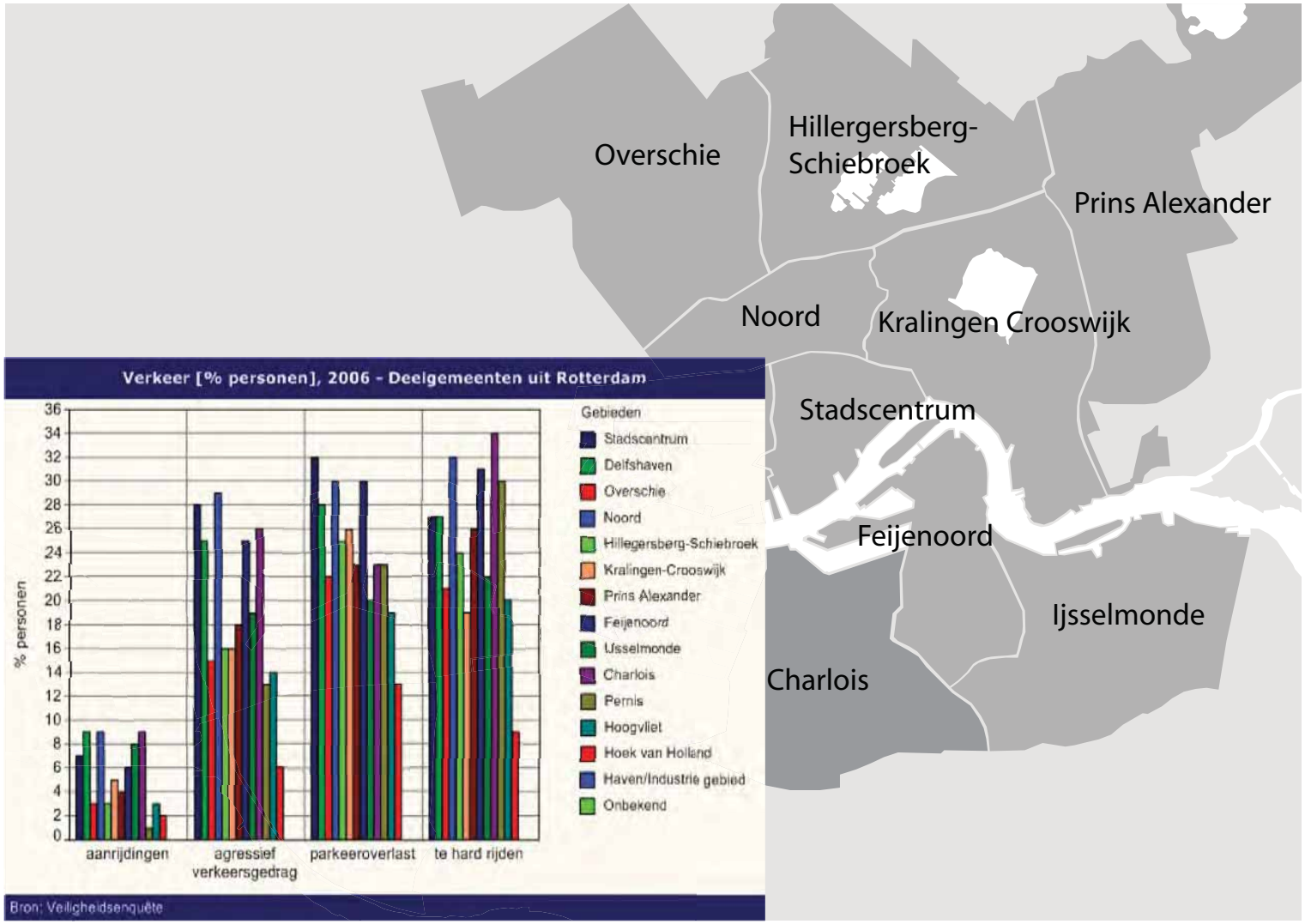
- > 300.000 e
- 200.000 - 300.000 e
- 150.000 - 200.000 e
- 100.000 - 150.000 e
- < 100.000 e



SAFETY

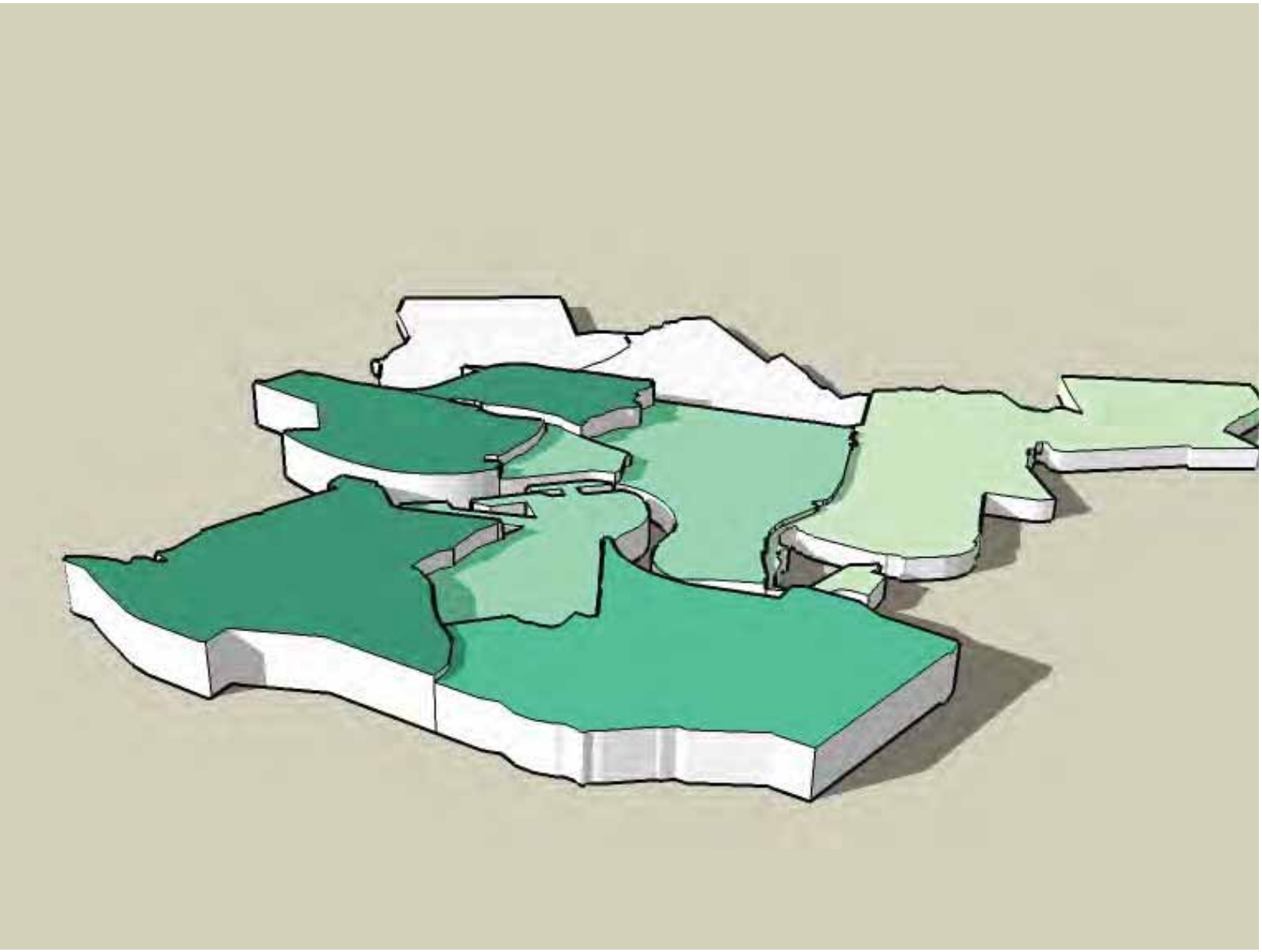
Rotterdam

Traffic safety



Comparing Charlois with the other districts in Rotterdam about traffic, one can notice that Charlois is in almost every subject above the average, which isn't very good.

- Charlois is in the top 3 of car accidents
- Charlois is in the top 3 of aggresive behaviour in traffic
- Charlois is in average with the parking problems
- Charlois is number 1 in driving to fast on the roads.



Traffic Accidents

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PRIVATE / PUBLIC

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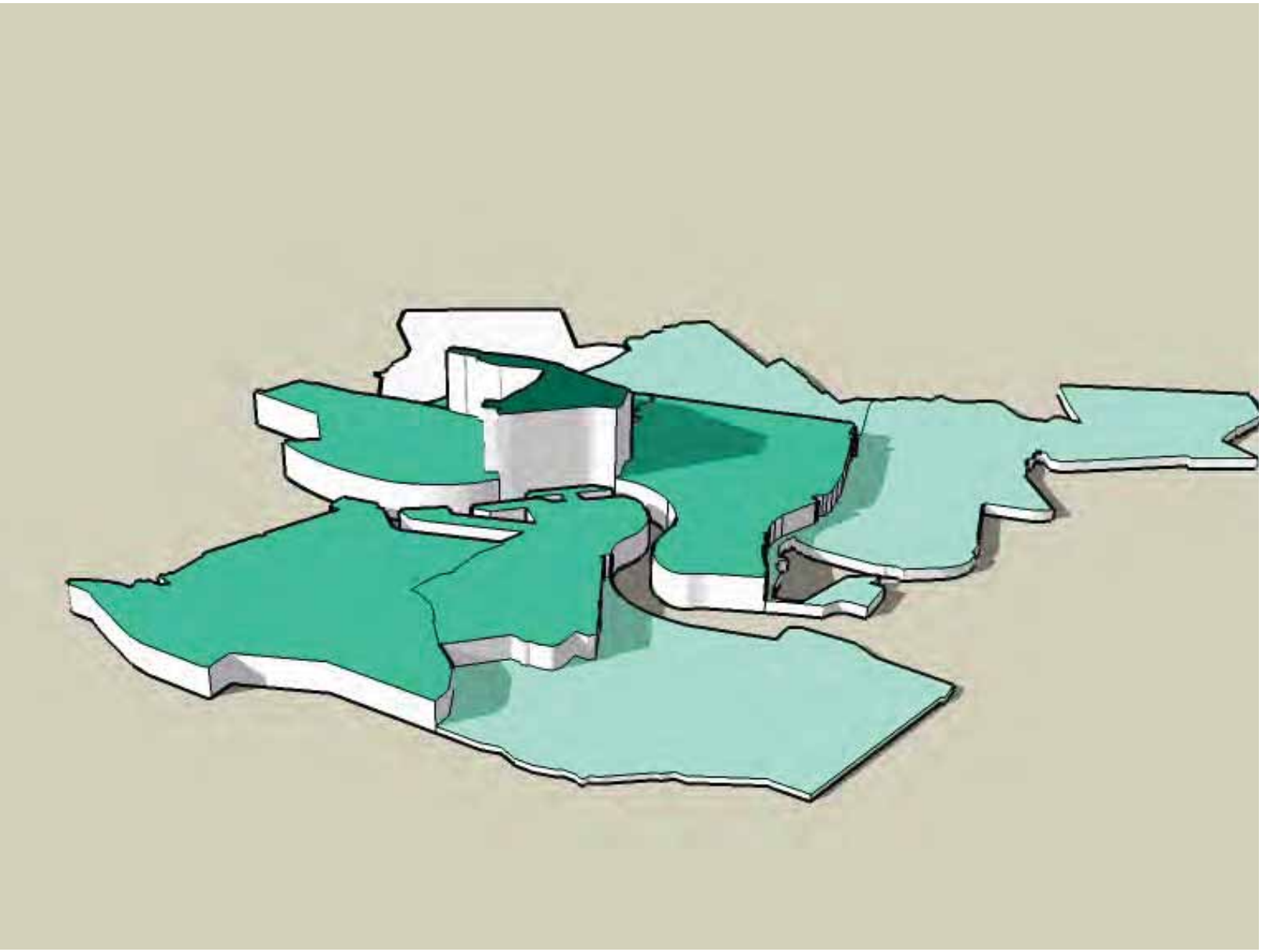
PRIVATE / PUBLIC



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PRIVATE / PUBLIC

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PRIVATE / PUBLIC

Police reports

Legend

- high level of police reports
- medium level of police reports
- low level of police reports

Police reports

	% reports/ population
Stadscentrum	27,2
Delfshaven	7,0
Overschie	6,2
Noord	7,4
Hillegersberg-Schiebroek	4,9
Kralingen-Crooswijk	8,2
Prins Alexander	4,7
Feijenoord	6,2
IJsselmonde	5,7
Charlois	7,8
Pernis	3,1
Hoogvliet	4,6

Complaints

Legend

- high level of complaints
- medium level of complaints
- Low level of complaints

Complaints

	% com-plaints/popu-lation
Stadscentrum	18,0
Delfshaven	5,6
Overschie	12,6
Noord	5,7
Hillegersberg-Schiebroek	5,0
Kralingen-Crooswijk	7,2
Prins Alexander	3,2
Feijenoord	6,5
IJsselmonde	5,2
Charlois	8,3
Pernis	12,0
Hoogvliet	4,6

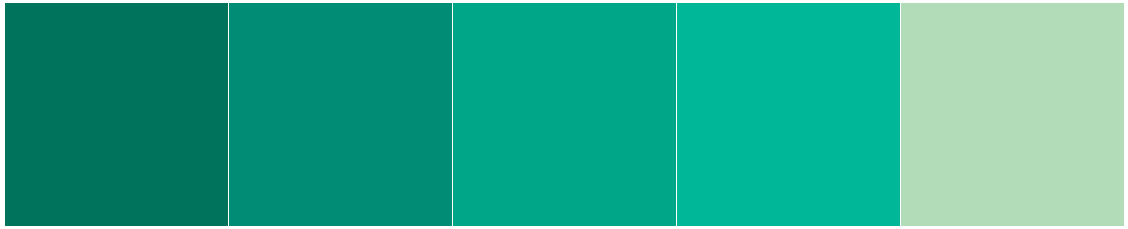
Drugdisturbance

Legend

- high drugdisturbance
- medium drugdisturbance
- low drugdisturbance

Disturbances

	% distur-bance
Stadscentrum	17
Delfshaven	12
Overschie	1
Noord	9
Hillegersberg-Schiebroek	3
Kralingen-Crooswijk	6
Prins Alexander	3
Feijenoord	13
IJsselmonde	4
Charlois	13
Pernis	6
Hoogvliet	3



SAFETY

Charlois

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olice accessibility o t e istrict

ecurity a ects irectly t e uality o li e o t e people li in in an area n t e sa ety cate ory t e easy an ast acces sibility o t e police is i ly pre erable earc in t e stu y area t o police stations ere pinpointe e ra ius o t e a ecte is pointe in t e ia ra n a ition t ree i erent locations ere chosen to define the distance and the ti e nee e to reac it by t e closest police station e urt est point is a ay ic ill ta e about inutes to reac it uc ti es are consi ere nor al an lea us to t e conclusion t at arlois as a oo accessibility by t e police orce

obility arlois ecurity

Intensity

Legend

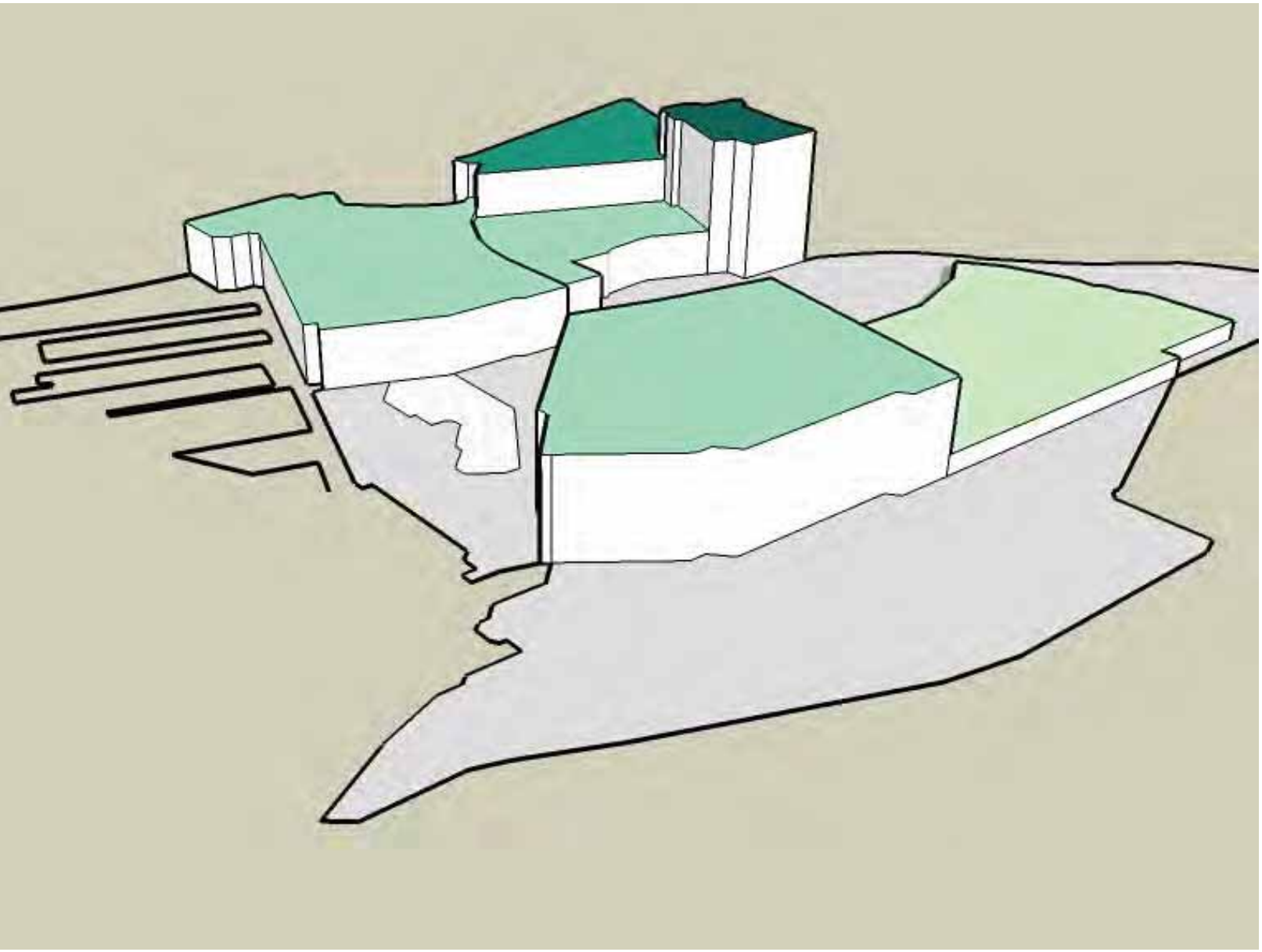
- Very intensive
- Intensive
- Slightly intensive

As one can see there are quit some roads around and going through Charlois that are (very) intensive used.

Almost all the roads are 50 km/h roads, but people often drive a lot faster.

Because of the intensive use of the roads by cars and trucks, the inhabitants have a unsafe feeling at the streets. The people are getting used to aggressive and fast driving.

Rotterdam is a car-friendly city, but there should be more focus on safety.



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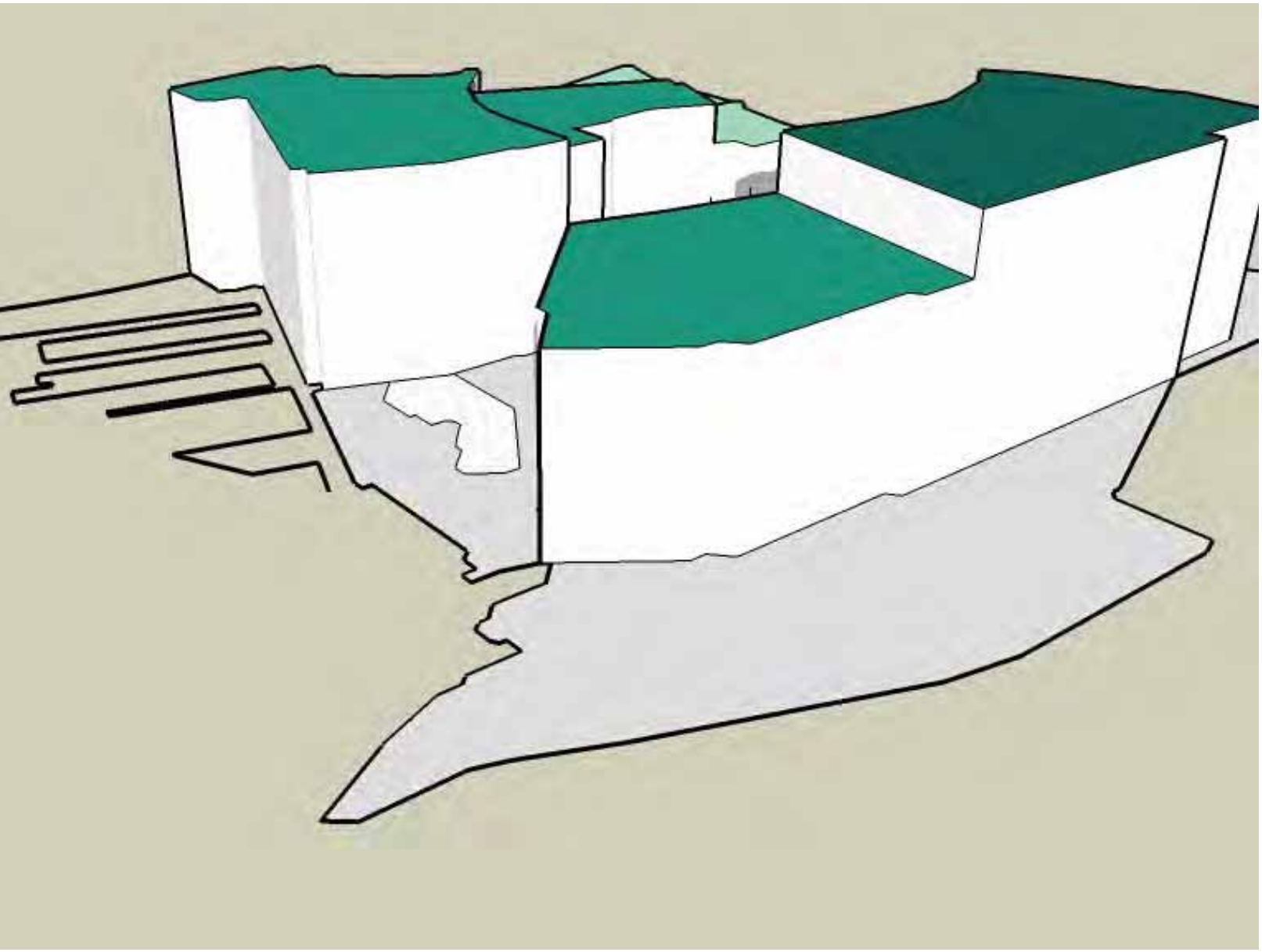
PRIVATE / PUBLIC



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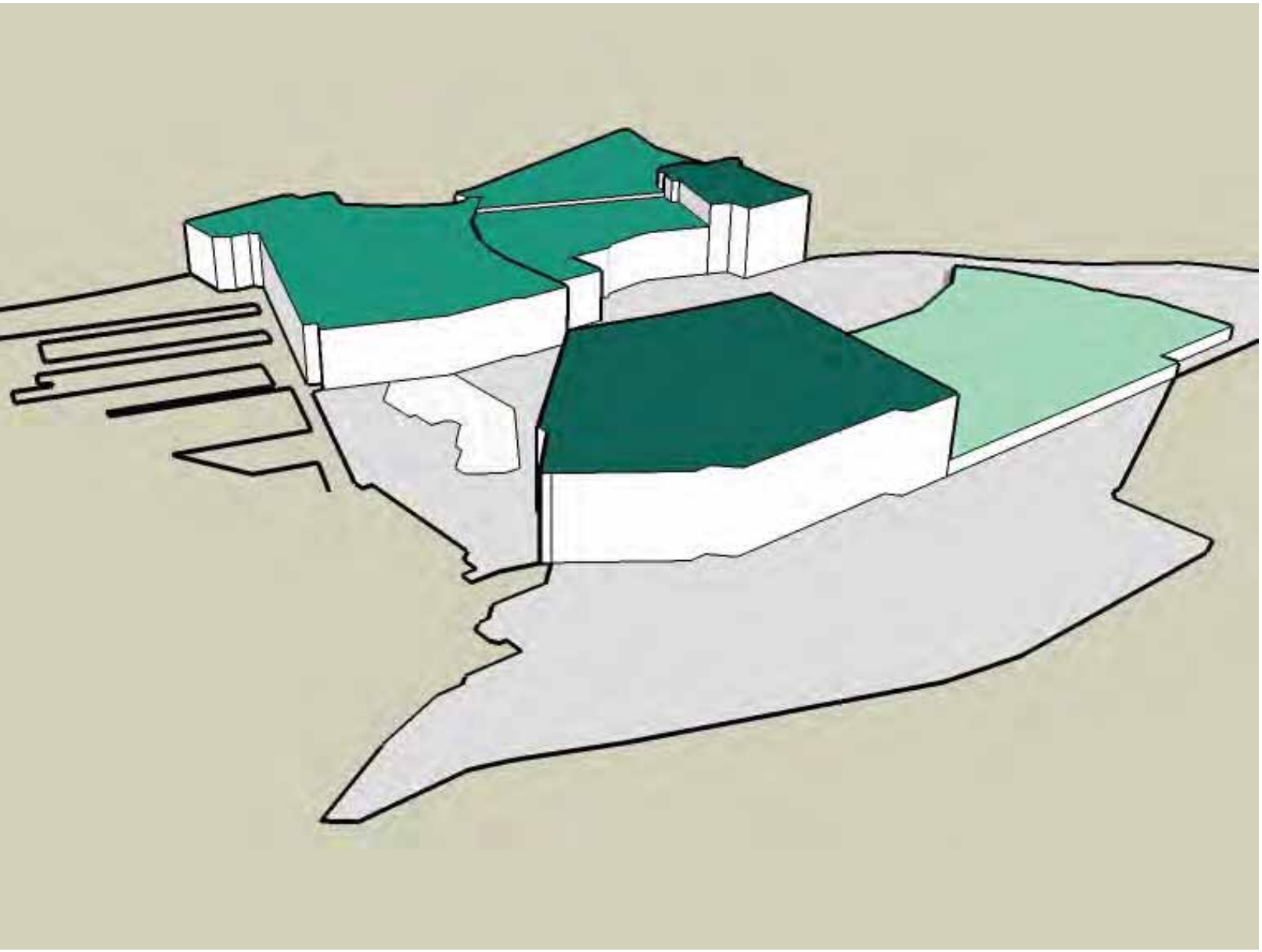
PRIVATE / PUBLIC



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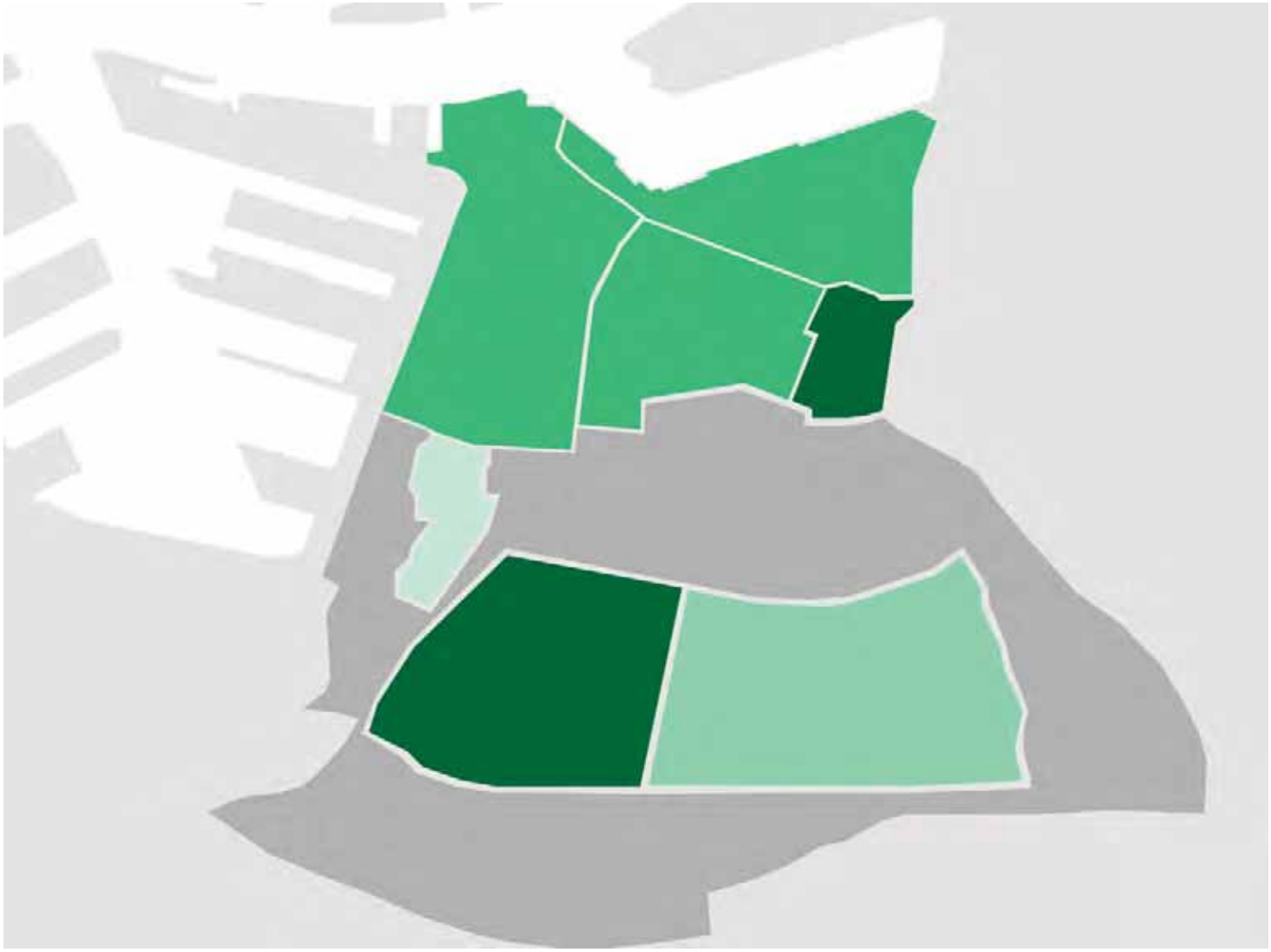

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PRIVATE / PUBLIC

Police reports

Legend

- high level of police reports
- medium level of police reports
- low level of reports

Policereports

	% reports/ population
Tarwewijk	7,4
Carnisse	6,5
Zuidwijk	5,9
Oud-Charlois	6,6
Wielewaal	5,0
Zuidplein	60,9
Pendrecht	6,0
Zuiderpark	36,3
Heijplaat	4,6
Average	7,8

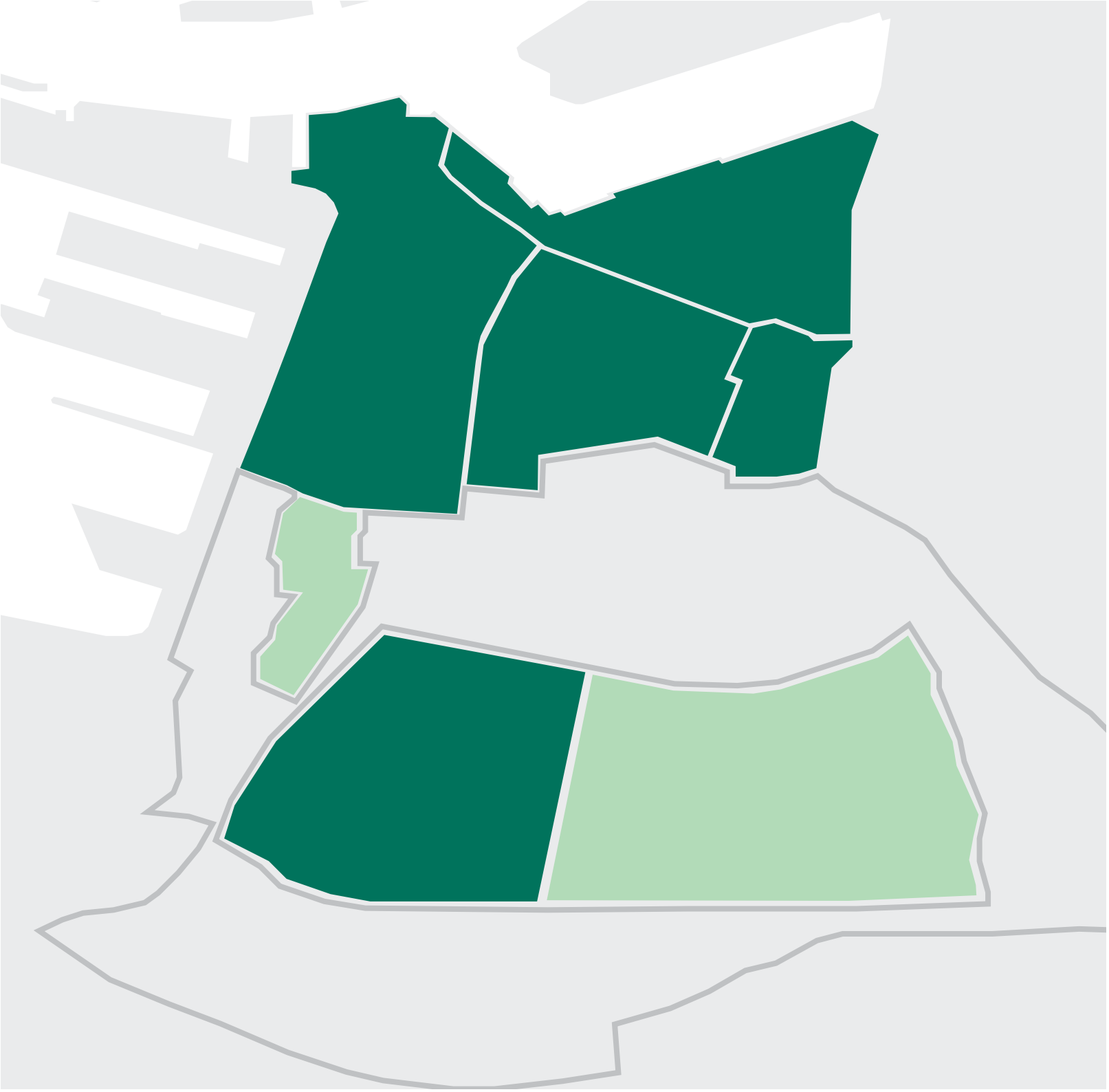
Complaints

Legend

- high level of complaints
- medium level of complaints
- low level of complaints

Complaints

	% com-plaints/popu-lation
Tarwewijk	1
Carnisse	10
Zuidwijk	4,3
Oud-Charlois	6,1
Wielewaal	90,5
Zuidplein	2,9
Pendrecht	3,2
Zuiderpark	63,7
Heijplaat	46,4



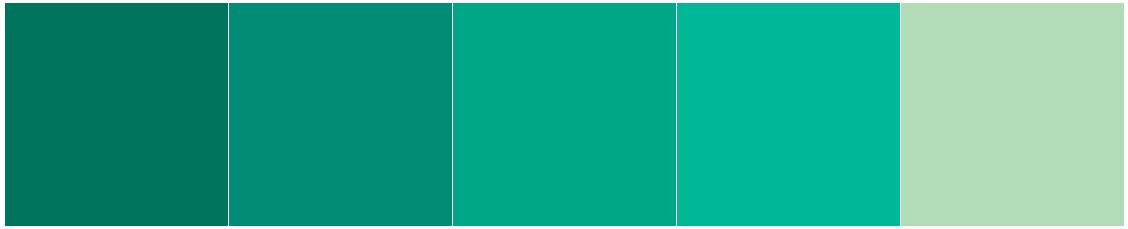
Drugdisturbance

Legend

high drugdisturbance
low drugdisturbance

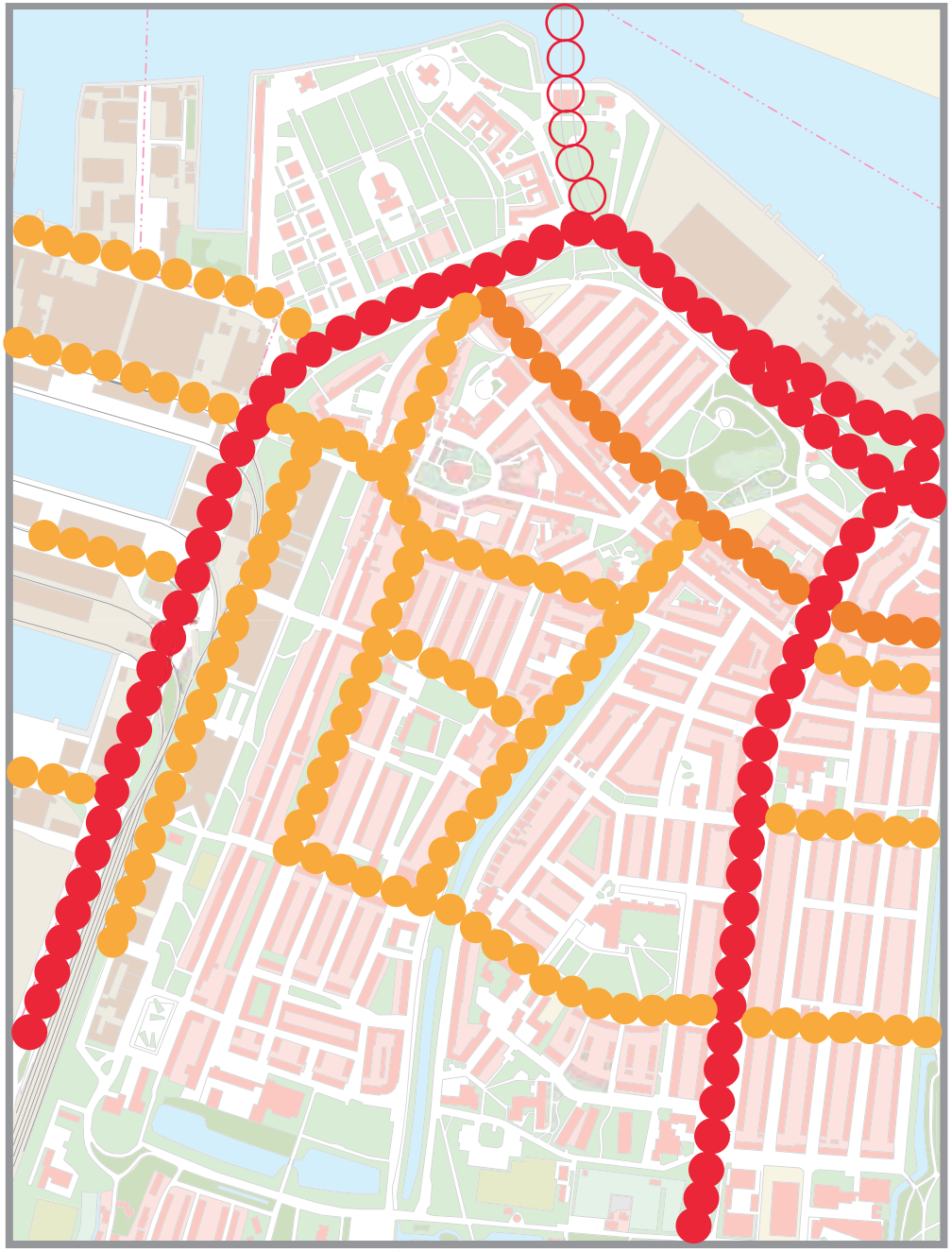
Disturbances

	% of distur-bance
Tarwewijk	15
Carnisse	14
Zuidwijk	6
Oud-Charlois	15
Wielewaal	3
Zuidplein	19
Pendrecht	18
Zuiderpark	-
Heijplaat	10
Average	71



SAFETY

Oud-Charlois



SCALE : 1/10.000

Intensity

Legend

- Very intensive
- Intensive
- Slightly intensive

The roads that are used the most in the neighborhood are the roads that are broad and very car-orientated. There is no determined space for bicycles and it's not a residential area where children safely can play on the roads and cars are driving slow.

Comparison of Violence & Vacancies

Areas of high violence and vacancies to areas of low violence and few vacancies.

Although there are two blocks which experience high levels of both factors in genveral a high level of vacancies does not appear to contribute to an increase in reported violence.

PRIVATE / PUBLIC

Street Lighting

Legend

Type of Space

Public

Private

Semi-Private

Street light

PRIVATE / PUBLIC

Reported Violence

Legend

- <=2
- > 2 & <=15
- >15 & <=31
- >31

PRIVATE / PUBLIC

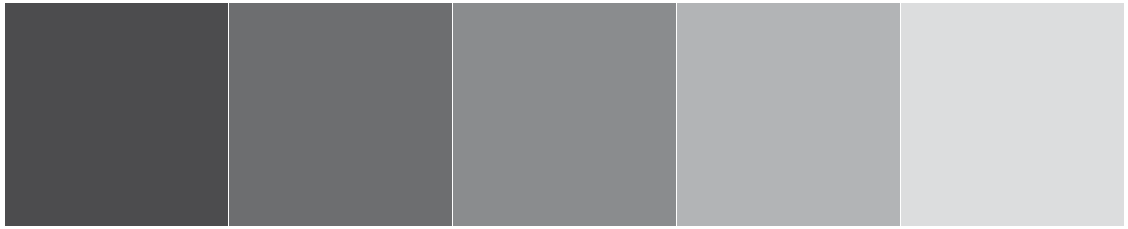
Furniture

Legend

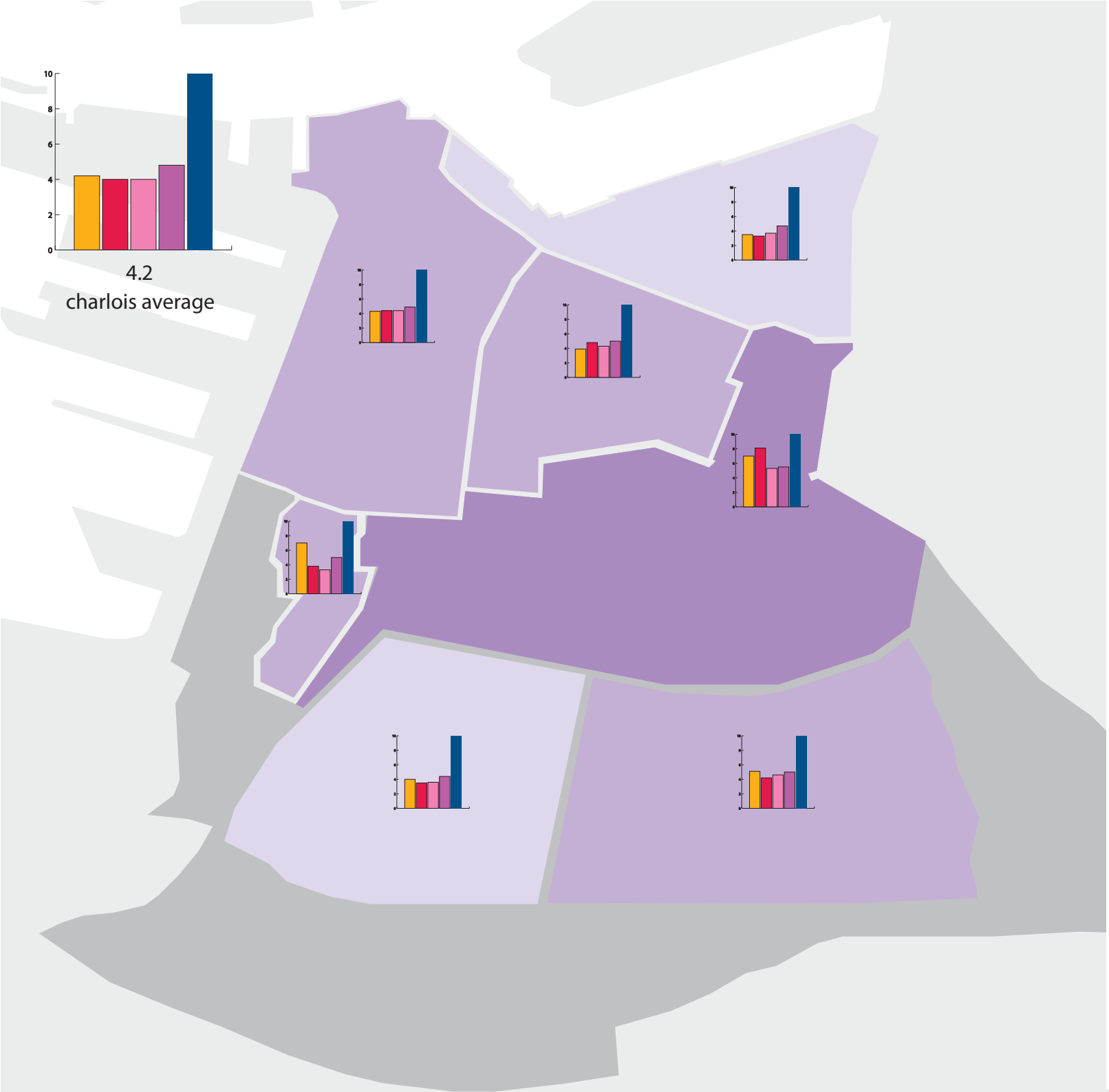
- Location of Street Furniture. (Benches, bicycle storage etc)

PRIVATE / PUBLIC

Categories



GENERAL



Capacity Index

Legend

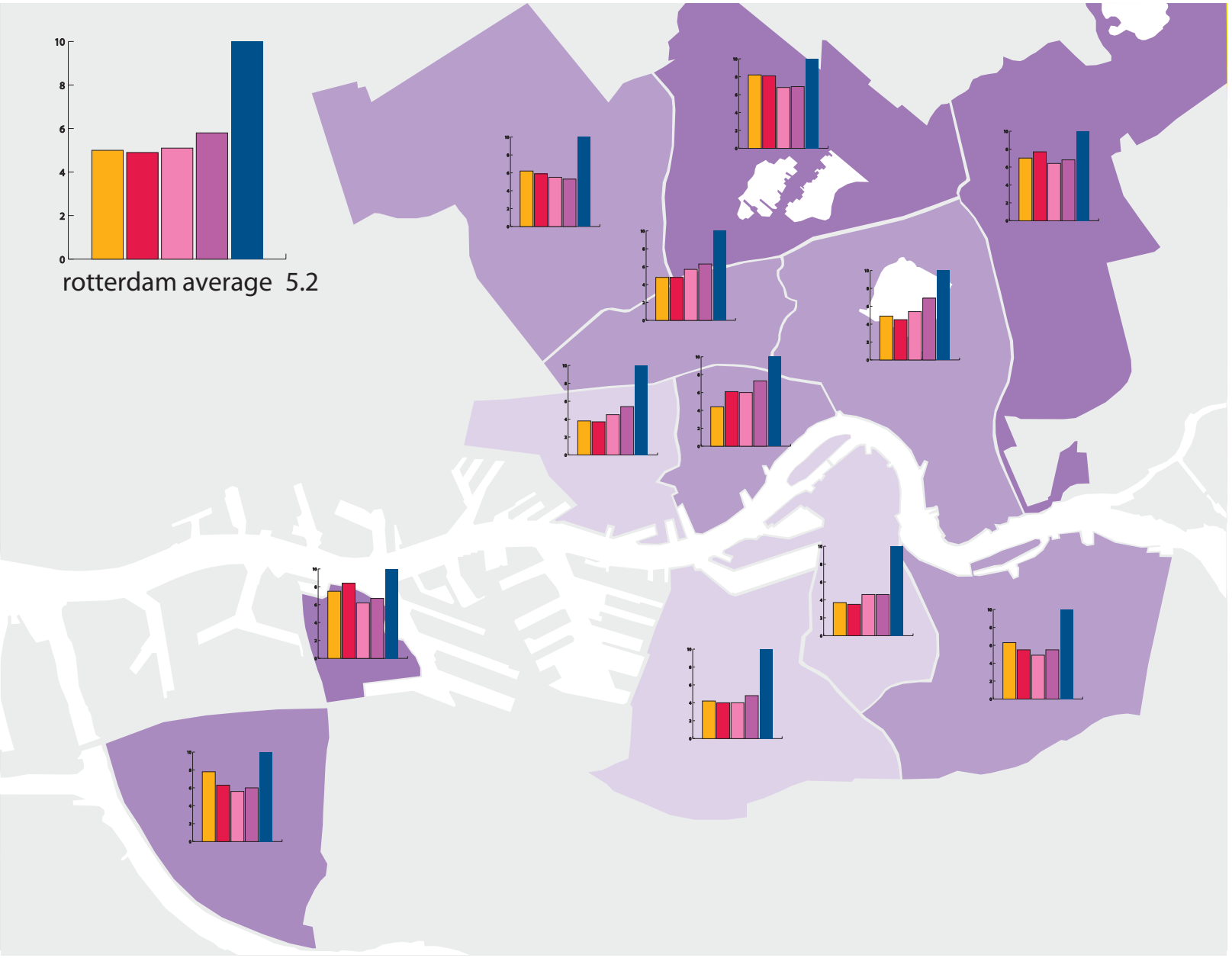
- knowledge of dutch language
- income
- health
- education
- maximum

capacity index

> 7.1	strong
6.0 - 7.0	sufficient
5.0 - 5.9	vulnerable
4.0 - 4.9	problematic
< 3.9	very weak

Table

Charlois	4.2	4.2	4.0	4.0	4.8
	Average	Language	Income	Health	Education
Tarwewijk	3.8	3.5	3.3	3.7	4.7
Carnisse	4.5	3.9	4.8	4.3	5.0
Zuidwijk	4.7	5.1	4.2	4.6	5.0
Oud-Charlois	4.5	4.3	4.4	4.4	4.9
Wielewaal	4.8	7.0	3.8	3.3	5.0
Zuidplein - park	6.5	7.0	8.1	5.3	5.5
Pendrecht	3.9	4.0	3.5	3.6	4.4



Capacity Index

Legend

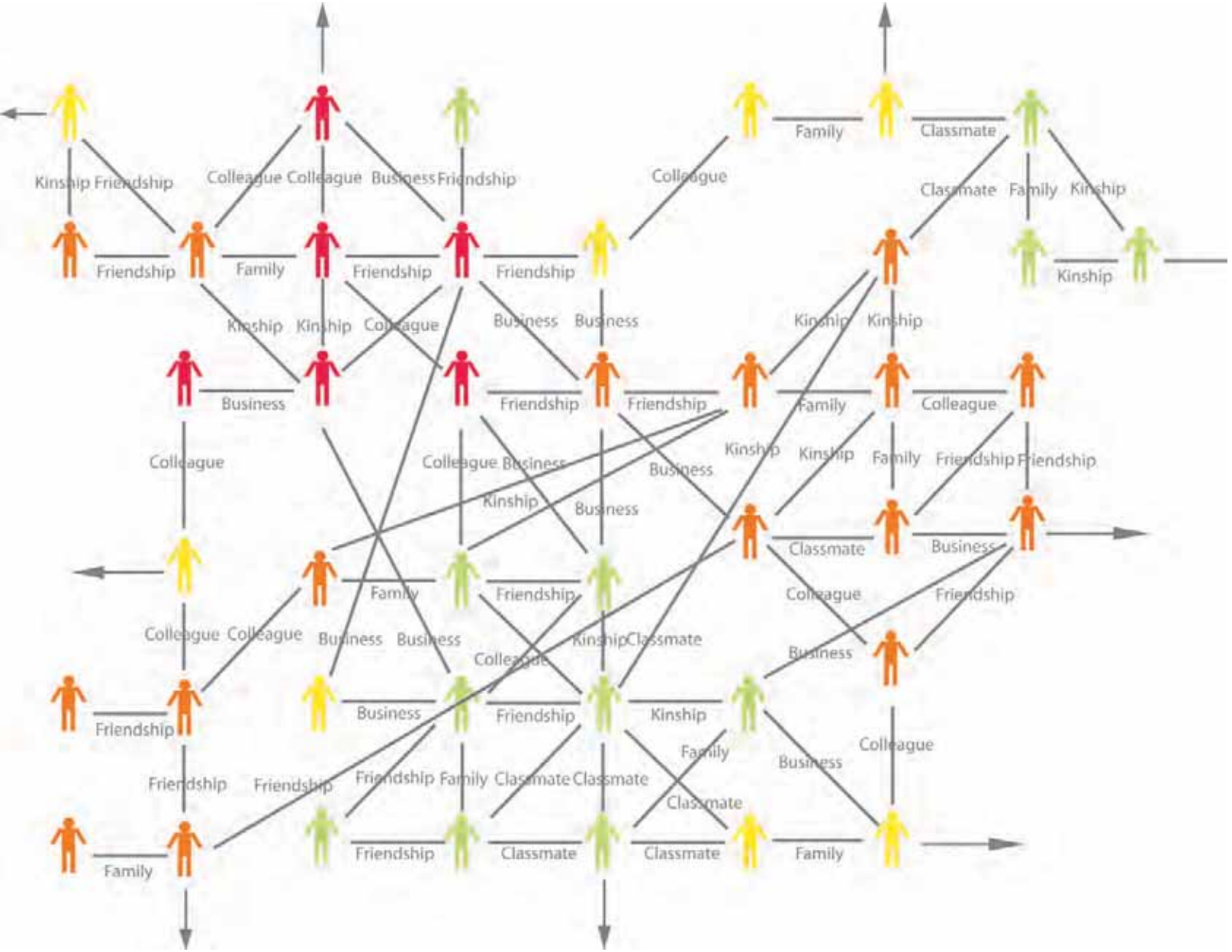
- knowledge of dutch language
- income
- health
- education
- maximum

capacity index

> 7.1	strong
6.0 - 7.0	sufficient
5.0 - 5.9	vulnerable
4.0 - 4.9	problematic
< 3.9	very weak

Table

Rotterdam	5.2	5.0	4.9	5.1	5.8
	Average	Language	Income	Health	Education
Stadscentrum	5.9	4.4	6.1	6.0	7.3
Delfshaven	4.3	3.8	3.7	4.5	5.4
Overschie	5.7	6.2	5.9	5.5	5.3
Noord	5.4	4.8	4.8	5.7	6.3
Hillegersberg-Schiebroek	7.5	8.2	8.1	6.8	6.4
Kralingen-Crooswijk	5.4	4.9	4.5	5.4	6.9
Prins Alexander	7.0	7.0	7.7	6.4	6.8
Feijenoord	4.1	3.7	3.5	4.6	4.6
IJsselmonde	5.5	6.3	5.5	4.9	5.5
Charlois	4.2	4.2	4.0	4.0	4.8
Pernis	7.2	7.5	8.4	6.2	6.7
Hoogvliet	6.4	7.8	6.3	5.6	6.0



Social Network

Legend

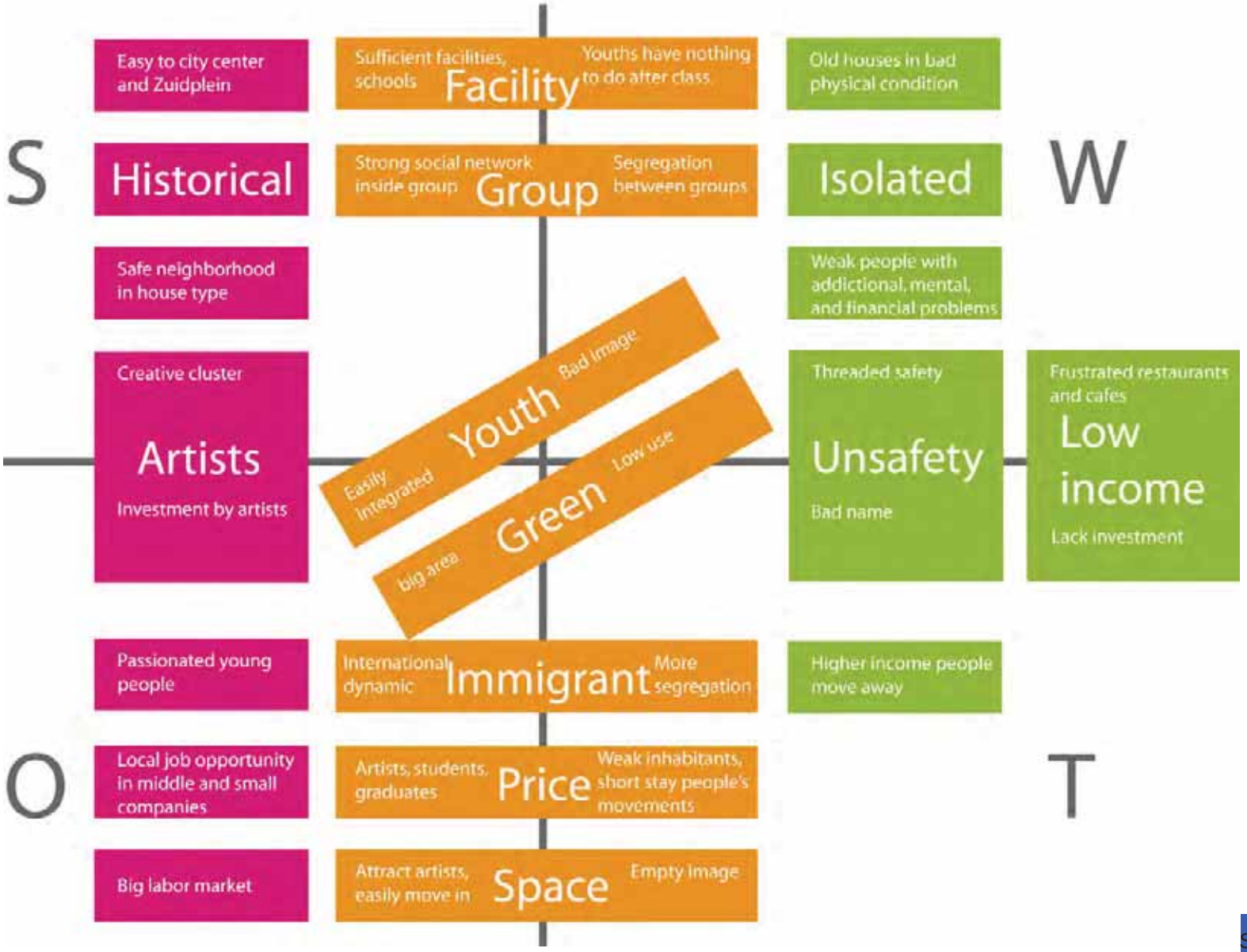
- Long Stay Dutch
- Long Stay Immigrante
- Artist
- Short Stay people

Social network is a social structure which construct by individual person or groups that tied by different types of relationship, such as family, kinship, friendship, colleague schoolmate, trade or same religion, values and ideas. It can be seen as a map to show all of the relevant ties between people and groups in our sociality and the network can also be used to determine the social capital of individual actors. In Oud-Charlois, there is strong social network within 4 groups(Dutch, Immigrate, Artist and short stay people), but the mix living lead culture conflict. People percept unsafety and social segregation are becoming a serious social peoblem and affect the community.

Network systems

Social Networks

SWOT



SWOT - Key words and conclusion

SOCIAL NETWORK