



## UvA-DARE (Digital Academic Repository)

### Inequality and rising levels of socio-economic segregation: lessons from a pan-European comparative study

Marcińczak, S.; Musterd, S.; van Ham, M.; Tammaru, T.

**DOI**

[10.4324/9781315758879](https://doi.org/10.4324/9781315758879)

**Publication date**

2016

**Document Version**

Final published version

**Published in**

Socio-economic Segregation in European Capital Cities

**License**

CC BY-NC-ND

[Link to publication](#)

**Citation for published version (APA):**

Marcińczak, S., Musterd, S., van Ham, M., & Tammaru, T. (2016). Inequality and rising levels of socio-economic segregation: lessons from a pan-European comparative study. In T. Tammaru, S. Marcińczak, M. van Ham, & S. Musterd (Eds.), *Socio-economic Segregation in European Capital Cities: East Meets West* (pp. 358-382). (Regions and cities; Vol. 89). Routledge. <https://doi.org/10.4324/9781315758879>

**General rights**

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

**Disclaimer/Complaints regulations**

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

*UvA-DARE is a service provided by the library of the University of Amsterdam (<https://dare.uva.nl>)*

# **Socio-Economic Segregation in European Capital Cities**

East meets West

**Edited by Tiit Tammaru,  
Szymon Marcińczak,  
Maarten van Ham and Sako Musterd**

First published 2016  
by Routledge  
2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN

and by Routledge  
711 Third Avenue, New York, NY 10017

*Routledge is an imprint of the Taylor & Francis Group, an informa business*

© 2016 selection and editorial material, Tiit Tammaru, Szymon Marciniak,  
Maarten van Ham, Sako Musterd; individual chapters, the contributors

The right of the editors to be identified as the authors of the editorial  
material, and of the authors for their individual chapters, has been asserted  
in accordance with sections 77 and 78 of the Copyright, Designs and Patents  
Act 1988.

All rights reserved. No part of this book may be reprinted or reproduced or  
utilised in any form or by any electronic, mechanical, or other means, now  
known or hereafter invented, including photocopying and recording, or in  
any information storage or retrieval system, without permission in writing  
from the publishers.

Chapters 1 and 15 of this book are available for free in PDF format as  
Open Access at [www.tandfebooks.com](http://www.tandfebooks.com). They have been made available  
under a Creative Commons Attribution-Non Commercial-No Derivatives  
3.0 license.

*Trademark notice:* Product or corporate names may be trademarks or  
registered trademarks, and are used only for identification and explanation  
without intent to infringe.

*British Library Cataloguing in Publication Data*

A catalogue record for this book is available from the British Library

*Library of Congress Cataloging in Publication Data*

A catalog record for this book has been requested

ISBN: 978-1-138-79493-1 (hbk)  
ISBN: 978-1-315-75887-9 (ebk)

Typeset in Times New Roman  
By Swales and Willis Ltd, Exeter, Devon, UK

# Contents

<i>List of figures</i>	xiii
<i>List of tables</i>	xvii
<i>List of contributors</i>	xxi
<i>Preface</i>	xxiii

<b>1 A multi-factor approach to understanding socio-economic segregation in European capital cities</b>	<b>1</b>
TIIT TAMMARU, SAKO MUSTERD, MAARTEN VAN HAM AND SZYMON MARCIŃCZAK	
<b>2 Occupational segregation in London: a multilevel framework for modelling segregation</b>	<b>30</b>
DAVID MANLEY, RON JOHNSTON, KELVYN JONES AND DEWI OWEN	
<b>3 Changing welfare context and income segregation in Amsterdam and its metropolitan area</b>	<b>55</b>
SAKO MUSTERD AND WOUTER VAN GENT	
<b>4 Socio-economic segregation in Vienna: a social-oriented approach to urban planning and housing</b>	<b>80</b>
GERHARD HATZ, JOSEF KOHLBACHER AND URSULA REEGER	
<b>5 Widening gaps: segregation dynamics during two decades of economic and institutional change in Stockholm</b>	<b>110</b>
ROGER ANDERSSON AND ANNELI KÄHRİK	
<b>6 Economic segregation in Oslo: polarisation as a contingent outcome</b>	<b>132</b>
TERJE WESSEL	

<b>7</b>	<b>Socio-economic segregation in Athens at the beginning of the twenty-first century</b>	156
	THOMAS MALOUTAS	
<b>8</b>	<b>Socio-economic divisions of space in Milan in the post-Fordist era</b>	186
	PETROS PETSIMERIS AND STEFANIA RIMOLDI	
<b>9</b>	<b>Economic crisis, social change and segregation processes in Madrid</b>	214
	JESÚS LEAL AND DANIEL SORANDO	
<b>10</b>	<b>Urban restructuring and changing patterns of socio-economic segregation in Budapest</b>	238
	ZOLTÁN KOVÁCS AND BALÁZS SZABÓ	
<b>11</b>	<b>The velvet and mild: socio-spatial differentiation in Prague after transition</b>	261
	MARTIN OUŘEDNÍČEK, LUCIE POSPÍŠILOVÁ, PETRA ŠPAČKOVÁ, ZUZANA KOPECKÁ AND JAKUB NOVÁK	
<b>12</b>	<b>Occupation and ethnicity: patterns of residential segregation in Riga two decades after socialism</b>	287
	ZAIGA KRISJĀNE, MĀRIS BĒRZIŅŠ AND KALJU KRATOVITŠ	
<b>13</b>	<b>Large social inequalities and low levels of socio-economic segregation in Vilnius</b>	313
	VYTAUTAS VALATKA, DONATAS BURNEIKA AND RŪTA UBAREVIČIENĖ	
<b>14</b>	<b>The ‘market experiment’: increasing socio-economic segregation in the inherited bi-ethnic context of Tallinn</b>	333
	TIIT TAMMARU, ANNELI KÄHRIK, KADI MÄGI, JAKUB NOVÁK AND KADRI LEETMAA	
<b>15</b>	<b>Inequality and rising levels of socio-economic segregation: lessons from a pan-European comparative study</b>	358
	SZYMON MARCIŃCZAK, SAKO MUSTERD, MAARTEN VAN HAM AND TIIT TAMMARU	
	<i>Index</i>	383

# 15 Inequality and rising levels of socio-economic segregation

Lessons from a pan-European comparative study

*Szymon Marcińczak, Sako Musterd,  
Maarten van Ham and Tiit Tammaru*

## Abstract

The *Socio-Economic Segregation in European Capital Cities: East Meets West* project investigates changing levels of socio-economic segregation in 13 major European cities: Amsterdam, Budapest, Vienna, Stockholm, Oslo, London, Vilnius, Tallinn, Prague, Madrid, Milan, Athens and Riga. The two main conclusions of this major study are that the levels of socio-economic segregation in European cities are still relatively modest compared to some other parts of the world but that the spatial gap between poor and rich is widening in all capital cities across Europe. Segregation levels in the East of Europe started at a lower level compared to the West of Europe, but the East is quickly catching up, although there are large differences between cities. Four central factors were found to play a major role in the changing urban landscape in Europe: welfare and housing regimes, globalisation and economic restructuring, rising economic inequality and historical development paths. Where state intervention in Europe has long countered segregation, (neo) liberal transformations in welfare states, under the influence of globalisation, have caused an increase in inequality. As a result, the levels of socio-economic segregation are moving upwards. If this trend were to continue, Europe would be at risk of slipping into the epoch of growing inequalities and segregation where the rich and the poor will live separate lives in separate parts of their cities, which could seriously harm the social stability of our future cities.

## Introduction

The spatial sorting of residents according to socio-economic status is as old as the history of urbanisation (Nightingale 2012). Processes and patterns of segregation are far from uniform in historical and regional contexts (York *et al.* 2012). The intensity and geography of socio-spatial divisions in cities are related to the constant interplay between institutions that set the rules of the game and households that make residential location decisions. Most important, unlike other forms of segregation, such as those based on race, ethnicity or religion, socio-economic segregation is usually seen as a direct effect of economic inequality. Common

sense may suggest that greater inequality in a city also entails higher levels of socio-economic segregation (Reardon and Bischoff 2011). Nonetheless, more often than not, the relation between the two is far from 'positive' and 'linear'. The seemingly obvious and logical regularity of this relation is mediated by a country/region-specific institutional setting and a city's trajectory of economic and population development (Burgers and Musterd 2002; Maloutas and Fujita 2012; Musterd and Ostendorf 1998). Moreover, socio-economic segregation will also be mediated by other forms of segregation, such as race-based and ethnic segregation (van Ham and Manley 2009; Manley and van Ham 2011). When a household 'selects' a certain place to live on demographic or cultural grounds, there will also be an impact on segregation in socio-economic terms. Viewed in this light, the studies on class-based spatial divisions in a selection of European cities brought together in this volume illuminate the complex relations between economic inequality, social disparities, and urban space. These relations unfold in the divergent historical, demographic, cultural and institutional contexts of the northern, southern, western and eastern parts of Europe at times of profound political and economic changes. Sweeping across the continent in the last two decades, these changes include the fall of the Berlin Wall (1989) and demise of the Soviet Union (1991), the enlargement of the European Union to include the new member states from East Europe<sup>1</sup> in 2004 and 2007, a concomitant massive East–West migration and, more recently, a deep economic crisis and its aftermath.

After an era of decreasing social inequality, which effectively started after World War II, from the early 1970s onwards, income inequality has been continuously increasing across the globe. In Europe, wealth inequalities are currently almost as high as they used to be in the heydays of laissez-faire capitalism in the late nineteenth century (Piketty 2013). Interestingly, one and a half centuries ago, similar levels of inequality were related to the formation of dreadful slums (Booth 1887, 1888; Engels 1892) and to clear-cut spatial divisions between the rich and the poor in the great industrial cities of that epoch (Park *et al.* 1925; Zorbaugh 1929). In the early 1990s, when globalisation was thriving and a new global division of labour evolved, some scholars predicted similar scenarios for urban areas at the turn of the twenty-first century. In brief, the end of the second and the beginning of the third millennium were heralded to be the advent of the era of mounting inequality, increasing class segregation and concentrated affluence and poverty (Massey 1996).

While there are several European studies of ethnic/racial segregation (Arbaci 2007; Huttman *et al.* 1991; Malheiros 2002; Musterd *et al.* 1998), European comparative research on class- or income-based socio-spatial divisions has received much less scholarly attention in the last 30 years. Although there are studies comparing European cities in the spheres of social inequality (for example Musterd 2005; Musterd and van Kempen 2007), these are rather crude, or limited to certain segments of a city, such as post-war neighbourhoods. Diligent up-to-date research on socio-economic (income or class) segregation in more than one city is hard to find. There are exceptions though, and some studies are dealing with socio-economic segregation in North America (Fischer *et al.* 2004; Reardon and Bischoff 2011;

Watson 2009), in West Europe and other western countries (Maloutas and Fuijta 2012; Musterd and Ostendorf 1998) or, recently, also in East Europe (Marcińczak *et al.* 2015). The contributions from 13 major European cities collected in this volume – Amsterdam, Budapest, Vienna, Stockholm, Oslo, London, Vilnius, Tallinn, Prague, Madrid, Milan, Athens and Riga – reveal that the levels of socio-economic segregation are moving upwards, and that the spatial gap between the more extreme socio-economic categories is widening in all capital cities across Europe.

The lack of studies that compare and contrast processes and patterns of socio-economic segregation is in fact surprising as the field of urban studies is currently witnessing a revival and a reorientation of comparative research (McFarlane and Robinson 2012; Robinson 2011; Ward 2010). Essentially, this reinvigorated strand of urban studies aims at the systematic study of similarity and difference among cities or urban processes both through description and explanation (Nijman 2007). Even if the chances for a methodologically rigorous case selection are fairly slim (Kantor and Savitch 2005; McFarlane 2010; Pickvance 1986), comparative urbanism emphasises the merit of a cyclical movement between theorising and doing empirical research. This offers a unique opportunity to review established theories and to avoid further development of decontextualised universalist ideas and models of urban development (Robinson 2011).

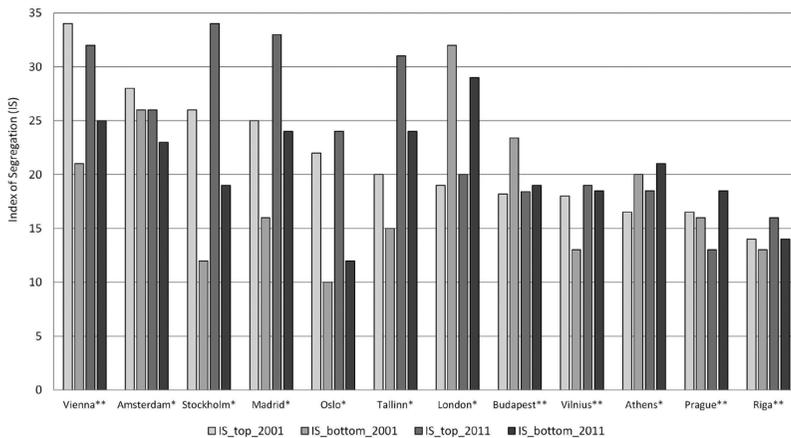
In this final chapter an attempt is made to draw some general conclusions from comparing the findings from all the studies that were presented in this volume. Before doing that, however, we have to point out two caveats related to the cross-case comparisons we present. First, the very idea of ‘a city’ is not the same in every European country. The proposed definition of the city was a continuous built-up area (Tammaru *et al.* 2016b). Some contributors collected and analysed data for urban regions (metropolitan areas), while others had to limit their analysis to areas within administrative boundaries of the city, and still others did both. These choices partly reflect data availability and partly also the urban processes themselves, for example the extent of urban sprawl. This inconsistency, which is also present in previous comparative studies on segregation in Europe, may potentially bias direct comparisons, as tighter delimitations, arguably, conceal the effects of intraregional population dynamics that shape patterns of segregation, for example, suburbanisation. The second caveat relates to the fact that availability of data reflecting (socio) economic disparities varies from country to country, even when looking at relatively similar European countries, and impacts not only on the definition of the city but also the choice of socio-economic indicators. Because of this, contributors relied on the division of population into income groups, or classifications of socio-professional status or highest education completed. The latter two are imperfect proxies for income disparities, while a distinction on the basis of income falls short in covering the whole spectrum of social inequality as well. Finally, we decided to exclude Milan from direct comparisons with the other cities. The reason we did this is that the results from Milan pertain to the last decade of the twentieth century, while the focus of this chapter is on the evolving patterns of socio-economic segregation in the new millennium. However, we take on board the upshot of the Italian study.

The rest of this chapter is divided into three main sections. The first section summarises the changing patterns of socio-economic segregation in political and/or economic capital cities of Europe in the first decade of the new millennium. In the introductory chapter of the book (Tammaru *et al.* 2016b) we presented a multi-factor approach to understanding segregation that resulted in the following theoretical ranking of cities with regard to their expected level of socio-economic segregation: London; Riga; Madrid and Vilnius; Milan and Tallinn; Amsterdam and Athens; Budapest, Oslo and Stockholm; and finally Prague and Vienna. The case studies presented in this book revealed a somewhat different ranking based on real data: Madrid and Milan; Tallinn; London; Stockholm; Vienna; Athens; Amsterdam; Budapest; Riga; Vilnius; Prague; and Oslo. In this concluding chapter we will elaborate on the differences between the theoretical and actual rankings of cities, mainly by scrutinising the similarities and differences in the levels and geographies of class-based spatial-disparities in our case cities. In the following section we elucidate how globalisation, economic inequality, different housing regimes and forms of welfare state relate to patterns of socio-spatial divisions in our selection of European cities. In the third and concluding section, we summarise the most important findings in the perspective of the multi-factor approach we developed in the introductory chapter of this volume.

### **Class and space in the European city**

More than 50 years ago, Chicago scholars found that spatial distance grows with social distance and that a truncated U-shape characterises segregation profiles. Both high and low social categories appeared to be highly segregated, but higher social categories were consistently more segregated than lower social groups in the American city (Duncan and Duncan 1955). This was later confirmed in Europe by studies from England and Wales (Morgan 1975, 1980). The skewed U-shape of segregation profiles toward higher socio-economic groups also applied to the European cities that were developing under totalitarian socialist regimes (Dangschat 1987; Ladányi 1989; Szelényi 1987). Interestingly, it seems that the trend found and confirmed in different Fordist societies did not vanish with the end of Fordism; the profile still holds in the United States in the 2000s (Fischer *et al.* 2004; Reardon and Bischoff 2011). Yet, how persistent is the truncated pattern of socio-spatial divisions in Europe? Segregation outcomes from 12 European cities presented in this volume cast some doubt on the seemingly universal shape of relations between class and space. We used the index of segregation (IS) as a measure that summarises residential separation of one group from the remainder of the population. The IS illustrates the degree to which class-based disparities correlate with spatial distance. The indices of segregation for top and bottom social categories refer to the two ends of the segregation U-curve (Figure 15.1); the cities were ordered by the decreasing degree of residential separation of the highest socio-economic category in the early 2000s. The results presented in Figure 15.1, but also in other figures in this chapter, should be interpreted with care. The different variables used to distinguish the

top (high) and bottom (low) social categories, as well as different spatial units, may influence the values of segregation measures. Notwithstanding the limitations of available data, it is clear that the rule that higher classes are more segregated than the lower classes is not ubiquitous. Even if in two-thirds of 12 European capital cities, the higher class is the most segregated social category (in Amsterdam, Stockholm, Oslo, Vienna, Madrid, Tallinn, Riga and Vilnius), the remaining cases show other outcomes. In Athens<sup>2</sup> and London, a counterintuitive segregation profile has been present for the last two decades. The ‘anomaly’ has been fading out in Budapest, but it has become a clear pattern in Prague. We must take into account that these differences between cases may be an effect of scale: the use of either cities or the whole metropolitan area. Essentially, metropolitan areas represent a spatial scale that allows more variation within its boundaries than a city does, for example concentrations of the affluent in inner London and more dispersed concentrations elsewhere in greater London can exist simultaneously. The stronger segregation of lower social groups could also result from inherited morphological structure and housing inequalities. But maybe also suburbanisation draws higher social echelons out of previously socially mixed neighbourhoods, as seems to be the case in Budapest and Prague. In other words, irrespective of the apparently unifying effect of neo-liberalisation and globalisation, the institutional, economic and demographic contexts still play a key role in determining which end of the social hierarchy is more segregated. The general conclusion about the shape of the distribution of segregation by social category is that profiles reported in 12 cities are skewed and that in most but not all cases, the highest social strata appear to be the most segregated.



*Figure 15.1* Index of segregation scores for top and bottom social categories.

Notes: \* Metropolitan region, \*\*city

Madrid, Tallinn, London, Budapest, Vilnius, Athens, Prague, Riga – managers and elementary occupations.

Amsterdam, Oslo, Stockholm – highest and lowest income quintile.

Vienna – university degree and compulsory education.

Figure 15.1 shows index of segregation scores for top and bottom social categories for 12 cities for both 2001 and 2011. There is a substantial difference between the levels of socio-economic segregation in our European case cities. In general, whereas in the early 2000s it was still possible to argue that West European cities were more segregated than those in the East, a decade later this is no longer so obvious. Most importantly, the intensity of socio-spatial divisions and its changes have not followed any clear regional pattern (Figure 15.1). The levels of segregation of the top and of the bottom categories decreased in Amsterdam (but see below). In Vienna and Prague (limited) desegregation was confined to the top social categories only, but we should take into account that the segregation level of the top social class in Vienna was already very high in 2001. In London and Budapest only the lower social groups became more evenly distributed; here we notice that segregation levels of the lowest class in London were already very high in 2001. Socio-economic spatial divisions of the social ‘top’ (relative to the rest) and ‘bottom’ (relative to the rest) became more pronounced in the other seven cities (Stockholm, Oslo, Madrid, Athens, Tallinn, Vilnius and Riga). The rise of segregation was especially high in Stockholm, Tallinn and Madrid. Interestingly, the recent crisis seems to contribute to both increasing segregation (Madrid) and desegregation (Amsterdam). In the latter case, the crisis implied a dynamic that was against the processes that were going on before and that created more segregation. Due to the crisis, people did not dare to make big (residential) decisions anymore; this resulted in (likely temporary) reduced segregation levels. In addition, there were swift changes in the formerly nineteenth-century neighbourhoods in Amsterdam that created – temporarily – more mix. Therefore, in a more structural sense segregation also seems to be increasing in Amsterdam. However, segregation also increased in Madrid also during the crisis. Here it seems that the crisis strengthened the segregation processes that were already ongoing: the poor became poorer in the neighbourhoods where they already lived; and the rich were able to retain their wealth, largely because the higher managerial and professional ranks managed to cope with the effects of the crisis. Moreover, Madrid only recently started to weaken the impact of family solidarity networks, networks requiring spatial proximity between different social classes and generations (Allen *et al.* 2004), implying that segregation could increase due to that process too. Also, gentrification started late in Madrid, and therefore the initial desegregating effects, which usually can be seen in the early phases of gentrification (cf. Freeman 2009; Galster and Booza 2007), are still negligible. Overall, for 9 of the 12 cities we had information on, we find increasing levels of segregation of the top social categories; and also for 9 of the 12 cities we found increasing segregation of the lowest social categories. Amsterdam may perhaps be added to these latter 9.

All in all, the main empirical finding of this comparative research is that socio-economic segregation levels increased in European capital cities between the 2001 and 2011. In those cases where desegregation occurred, this seems to be due to a lack of opportunities, economic uncertainty due to crises (Amsterdam) or simply because of the spatial distribution of affordable housing (Athens in the 1990s). In

Milan scholars point at demographic processes that are driving declining segregation: (1) gentrification leading to the substitution of working-class households in working-class neighbourhoods by white-collar workers; (2) under right-to-buy schemes working-class households purchased properties which they subsequently sold to white-collar households; (3) upgrading through inheritance, where a white-collar children inherit a house from their working-class parents; (4) the tendency for self-employed households on modest incomes to settle in the working-class periphery of the city where housing is affordable and where public and state-subsidised housing is mainly located. In other words, it seems that there are two general factors that appear to reduce levels of segregation, possibly both only temporarily. One is a limited or reduced level of residential mobility that leads to *in situ* social mobility: sitting residents become richer or poorer in their neighbourhoods. That creates more mix *in situ* and thus lower levels of segregation (cf. Galster and Booza 2007). When residential mobility increases again, we should see rising levels of segregation. The second factor is gentrification. Especially when gentrification is new in an area, this is typically a process where formerly homogeneous low-income households become accompanied by socially upward neighbours. This will initially reduce the level of segregation. More mature gentrification may again result in increasing segregation.

It would be misleading to attribute all changing levels of segregation to the effects of the crises and/or demographic processes only; these forces will be responsible for temporal deviations of the more general and structural changes in some cities, but not in all. The mounting socio-economic spatial disparities in Tallinn, a city that has also been in the grip of the recent economic crisis, may well have other roots. It is likely that the significantly higher levels of socio-spatial divisions in Tallinn in 2010 stem from the realised potential of the rapidly growing income inequality and employment change in the 1990s. Segregation has been on the rise in most of the other East European cities too. Essentially, while economic disparity skyrocketed throughout the region, the patterns of segregation did not change much in East Europe in the first decade after the collapse of socialism (Marcińczak *et al.* 2013, 2014; Sýkora 2009). However, from the second decade onwards, inequalities started materialising in space. Finally, institutional arrangements, housing regimes and the extent of the welfare state have had a tremendous impact on socio-economic segregation. In countries that virtually did not suffer from economic turmoil, levels of segregation either decreased somewhat (higher social strata in Vienna), or, as the case of Stockholm clearly exemplifies, increasing segregation could be observed before and after the crises. We will discuss the nexus between institutional arrangements, economic inequality and socio-economic segregation in the next section.

Figure 15.2 shows indices of dissimilarity between opposite social groups that gives a more coherent picture of changing levels of socio-economic segregation in Europe. Essentially, despite visible signs of desegregation of the top and/or the bottom social groups, residential separation of the rich from the poor has been consistently growing over the last decade in all cases included in our study, except for Amsterdam (Figure 15.2). However, if we leave out the effect of the

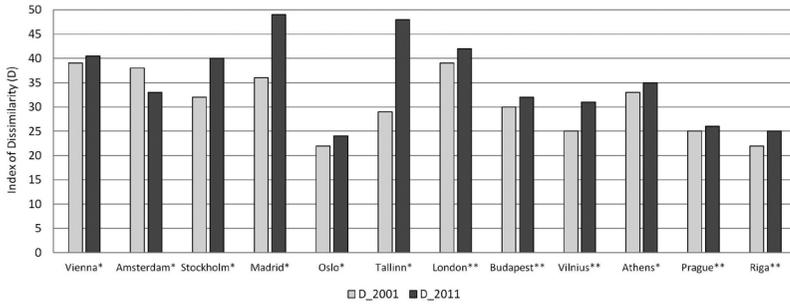


Figure 15.2 Index of dissimilarity.

Notes: \* Metropolitan region, \*\*city

Madrid, Tallinn, London, Budapest, Vilnius, Athens, Prague, Riga – managers and elementary occupations. Amsterdam, Oslo, Stockholm – highest and lowest income quintile.

Vienna – university degree and compulsory education.

economic and housing crisis, which hit Amsterdam particularly hard, the separation between the rich and the poor also increased in Amsterdam, as shown in this volume. The reduced levels of segregation of the ‘top’ relative to the rest, or the ‘bottom’ relative to the rest (reported above for some cities), does not prevent increasing separation of the ‘top’ from the ‘bottom’. This indicates that although socio-economic residential mixing may occur, this is limited to groups with a status that is not too far apart from each other. This corroborates the findings by Musterd *et al.* (2014), who showed that the tendency to move increases with the social distance between an individual and the social level of the neighbourhood (s)he is living in; larger social distances imply a larger propensity to move and subsequently a larger chance to end up in a socially more similar neighbourhood. However, the spatial gap between the more extreme categories, those that ‘have’ and those that ‘have not’ is pretty much widening all over Europe. However, so far, the socio-economic segregation is clearly lower than in the USA (Florida 2014) or in Brazil (Villaca 2011).

The ethnic and socio-economic dimensions of segregation are often linked. Even if the two dimensions do not overlap completely, immigrants in the West European countries, especially those newly arrived, are frequently overrepresented among the urban poor (Arbaci 2007). Yet, there is also class differentiation within categories of native and non-native residents. Some cities (Amsterdam, Stockholm) show that such class differentiation is even bigger for some non-native categories than for the native categories. Strong social divisions underpinned by ethnic disparities do not necessarily have to be a consequence of recent immigration. The Baltic States, principally Estonia, demonstrate the effect of deeply rooted ethnic divisions amplified by the downfall of socialism and the formation of independent statehood in the early 1990s. In Tallinn, the divisions between higher-class natives and lower-class minority groups are higher than in any other European city where ethnic divisions are present; such

Table 15.1 Major areas of concentration for top and bottom social groups in selected European cities, 2001–2011

<i>City/region</i>	<i>Comments</i>
<b>Amsterdam</b>	High SES is over-represented in some older neighbourhoods in the inner city and in specific suburban areas. Low SES is over-represented in post-war social housing neighbourhoods and in some of the older parts of the core city where social housing is prevalent.
<b>Athens</b>	Traditional social division between Low SES west and High SES East shapes Athens since the nineteenth century. Over the last decades, High SES is opting massively for residence in the north-eastern and south-eastern suburbs, creating strong city–suburb SES divide.
<b>Budapest</b>	Clear social division between High SES west sector stretching from the city centre to the suburbs, and the rest of the city. Three Low SES areas stick out: some decaying inner-city quarters, socialist high-rise housing estates and low-rise suburban residential-industrial neighbourhoods.
<b>London</b>	The High SES west and Low SES east is the most important macro-level social division already existing for centuries. A sector of High SES extends from west-central London towards the suburbs. Low SES location pattern is more mosaic compared to High SES, and concentrations can mainly be found in the distant suburbs.
<b>Madrid</b>	High SES is expanding from the core city towards the suburbs, especially to the north and north-west, creating clear divisions between the core city and suburbs. Those High SES who inherited, or who succeeded the prior inhabitants, stay in the core city. Low SES has long been over-represented in the core city and in the suburbs in the south and east.
<b>Oslo</b>	A key social division runs between the High SES west and the Low SES east. There are many locations in the city, however, where concentrations of both social groups are juxtaposed with each other.
<b>Prague</b>	Many locations in the city show concentrations of High SES and Low SES that are often juxtaposed all-over the city. A typical socio-spatial mosaic.
<b>Stockholm</b>	High SES is over-represented in inner-city neighbourhoods and in specific suburban areas. Low SES is over-represented in more peripheral post-war social housing neighbourhoods.
<b>Tallinn</b>	High SES predominates in the historical city centre and attractive inner-city neighbourhoods from the 1930s. Low SES is overrepresented in the socialist-era housing estates and in seedy, pre-World War II neighbourhoods in the inner city. In the periphery, High SES and Low SES concentrate in non-conterminous sectors and clusters.
<b>Vienna</b>	High SES residential patterns is sectoral, stretching from the western inner-city districts to the western outskirts of the city. Low SES are over-represented in the eastern parts of the city and strongly confined to public housing neighbourhoods.
<b>Vilnius</b>	Historical north–south division of the city is deepening. High SES is over-represented in the inner city and low-density villa areas in the outer city. Low SES is strongly over-represented in the south, especially in older socialist housing estates, as well as in the most peripheral parts in the north.
<b>Riga</b>	High SES concentrates in the city centre (historical core) and in small clusters sprinkled over the peripheral areas. Low SES are overrepresented in the lower quality housing in the inner-city and in the periphery. Both social categories mix in the socialist-era housing estates.

a scale of disparities, arguably, evokes the picture of clear-cut ethnic/racial divisions epitomised by urban regions in the USA (Farley *et al.* 1978; van Kempen and Murie 2009).

Table 15.1 gives an insight into the major areas of concentration for top and bottom social groups in 12 cities. The descriptions in the table and the figures show that the geography of socio-economic segregation in European cities does not follow a uniform model. The only general characteristic shared by all 13 cities was a mosaic socio-spatial structure of the urban fabric. In the last 10 years this inherent feature of socio-economic spatial divisions in the European city (French and Hamilton 1979; Marcińczak *et al.* 2015; Musterd 2005) has somewhat changed. In the first decade of the twenty-first century we can now see emerging a more regular, often sectorial, pattern of socio-economic segregation in many cities. In short, the seemingly mosaic pattern of social disparities conceals divergent, context-sensitive, local patterns of class segregation (Table 15.1). In cities like Stockholm, London and Amsterdam, urban-oriented fractions of the middle class and certain professions increasingly concentrate in the central parts of the metropolitan area and the poorer households are consistently more dependent on housing in more peripheral residential areas. Social mix and anti-segregation policies may have reduced this process but failed to stop the overall trend. Interestingly, London is an excellent example of how persistent the legacy of historically developed segregation patterns might be: the social status of some neighbourhoods has not changed much for more than a century (Manley and Johnston 2015). The geographies of class divisions in Budapest and Vienna also point towards an important role for an ‘inherited’ urban fabric. Even though the two cities developed in radically different economic and political milieus in the second half of the twentieth century, higher social categories still occupy bourgeois tenements and villas, and lower classes are overrepresented in poor-quality buildings that housed the working class in the last days of the Habsburg Empire.

In Athens, more affluent sections of the population occupied specific suburban territory. This is a somewhat reverse image compared with West Europe. In Athens this was due to a stable professional structure, stable housing markets, limited residential mobility, reduced immigration and vertical segregation. A similar reversed pattern with elite in the suburbs and poorer households in the central districts can be found in Madrid, although independent professionals slowly seem to be ‘taking over’ the central parts of town as well. The effects of suburbanisation, a major trend in regional population dynamics after socialism (Stanilov and Sýkora 2014), on patterns of segregation are also clearly visible in East Europe. Top social groups have been incrementally moving to the peripheral and suburban estates where new housing was available. On the other hand, in five post-socialist cities, top social echelons are overrepresented in the inner-city too. Assuming that gentrification gained momentum in the 2000s (Kovács *et al.* 2013), and that large socialist-era residential estates, often the dominant form of housing, have been consistently losing the better-off residents, more clear-cut spatial divisions might actually materialise in East Europe in the future. However, new geographies of segregation might not necessarily be similar to elsewhere in Europe.

## **Economic disparities, globalisation, institutions and segregation**

The starting point for this study was the multi-factor approach which we presented in the introduction of this volume (Tammaru *et al.* 2016b). This approach resulted in a theoretical ranking of our case study cities by the level of socio-economic segregation. Referring to theories explaining patterns of socio-economic segregation, the multi-factor approach lists a number of ‘universal’ and ‘relative’ characteristics determining levels and geographies of social divisions. The ‘universal’ factors are believed to cause ubiquitous effects that are not sensitive to spatio-temporal parameters, whereas the ‘relative’ factors are highly specific to particular social systems (Pickvance 1986). As a more parsimonious approach might still be beneficial for meaningful comparative analysis (Kantor and Savitch 2005), we selected four key variables for further examination. Essentially, we chose two universal factors (income inequality and level of globalisation) and two contextual factors (housing regimes and forms of the welfare state) to elucidate the complex relations between important structural economic and institutional changes and evolving patterns of residential segregation we encounter in European cities. We present a series of bivariate analyses of the relations between spatial separation of opposing social groups and the key contributory factors.

In general, it is taken for granted that socio-economic segregation is a product of socio-economic inequality, and that growing inequality results in increasing segregation (Massey 1996; van Kempen 2007; Watson 2009). However, the apparently universal and strong correlation between social and spatial divisions is not always existing (Fuijta 2012). In brief, the catalysing effect of income inequality on residential segregation hinges on context-specific institutional arrangements: for instance, a close and lasting link between segregation and inequality requires the presence of an income-based housing market and housing policies that relate income to residential location (Brown and Chung 2008; Reardon and Bischoff 2011). The results from the analysis of our 13 European cities shed some new light on these relations.

As in many other developed and developing countries across the globe (Stiglitz 2013), income inequality has been on the rise in most of Europe. In the last decade, societies became more equal income-wise in Estonia, and to a lesser extent in Norway and the Netherlands. Bearing in mind that generally the levels of socio-economic segregation also went up, it is tempting to suggest that the two phenomena are tightly linked. Figure 15.3 shows the relationship between income inequality (Gini index) and the level of residential segregation between top and bottom social categories measured by the index of dissimilarity. Indeed, in 11 out of 12 European cities the changing intensity of segregation reflects changes in income inequality; growing inequality involves increasing segregation, and, as the case of Amsterdam clearly illustrates, reduced levels of segregation follow income disparities (Figure 15.3). Nonetheless, it seems that segregation may surge irrespective of reducing economic inequality; in Tallinn, but also in Oslo, such a paradoxical situation is unambiguous. In both countries income inequality

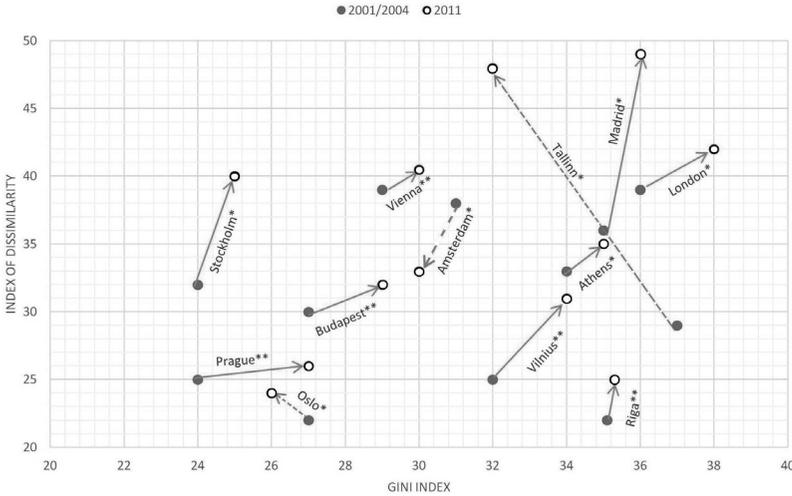


Figure 15.3 Income inequality and residential segregation between top and bottom social categories in selected European cities, 2001/2004–2011.

Notes: \* Metropolitan region, \*\*city.

Madrid, Tallinn, London, Budapest, Vilnius, Athens, Prague, Riga – managers and elementary occupations. Amsterdam, Oslo, Stockholm – highest and lowest income quintile.

Vienna – university degree and compulsory education.

was consistently growing in the 1990s that may actually point to the lagged effect of income disparities on residential segregation; it simply takes time before spatial patterns catch up with socio-economic changes. Interestingly, a temporarily reversed relationship between economic inequality and segregation is also possible; in East Europe, rapidly growing income disparities after the collapse of socialism entailed short-term desegregation in the 1990s (Marciniczak *et al.* 2013: 2014; Sýkora 2009). A fairly similar trend could also be found outside former socialist Europe (Oslo in the last decade of the previous century). In fact, such a long-term perspective on the relation between social inequality and the level of socio-spatial segregation also proves to be more relevant for almost all of the cities included in this study. In that respect it is also important to filter out the temporary or conjunctural effects. With a view on social inequality over a longer period of time, we can show, for example, that Amsterdam (and the Netherlands) experienced substantially growing inequality over the past three decades, which also resulted in increasing socio-spatial segregation until 2008 when the crisis started. In 2011, compared to the start of the millennium, social inequality dropped a little, but compared to the late 1980s social inequality rose significantly. The more recent drop coincided with lower levels of segregation, which were also to be ascribed to the crisis. If crisis effects are left out, economic inequality has been on the rise for the last two or three decades.

Even if the widening spatial gap between the top social class and the bottom social class generally correlates with a growing economic inequality, as can be shown for 9 out of 12 cities, it does not necessarily mean that the most unequal cities are also the most segregated. Stockholm, the capital of one of the most equal countries in the world, is – at the moment – relatively high in the hierarchy of socio-economic segregation in Europe. Most important, the relationship between segregation and inequality is rarely linear. In other words, a relatively small increase in income inequality may relate to significantly growing residential segregation (Madrid, Stockholm). On the other hand, a more substantial growth of socio-economic disparities may well coincide with a negligible increase in residential segregation (Budapest, Prague). Thus, social inequality is not sufficient as the sole explanatory factor of the evolving patterns of residential segregation in Europe.

The globalisation of the economy and society and a series of massive and parallel changes that the processes involve, have been argued to stimulate the growth of socio-economic disparities and segregation in the contemporary city (Fainstein *et al.* 1992, Marcuse and van Kempen 2002; Massey 1996; Smith 2002). The evolution of the employment structure in major hubs and nodes in the global spaces of flows of money and people, amplified by a post-Fordist restructuring of the economy, may indeed lead to social and occupational polarisation (Sassen 1991). Essentially, the dwindling labour-intensive manufacturing industry in much of Europe and North America, in the aftermath of the new global division of labour (Massey 1995), has led to new economic activities that demand new types of labour, many of them with higher levels of education. Some cities will manage (or already have managed) to deliver the required new types of employees more easily than others. As Burgers and Musterd (2002) have set out, cities with a very strong history as a manufacturing industry centre, which were dependent on low-skilled or unskilled employees, may not immediately succeed in professionalising their population – transforming their professional structures to the newly required standards. In those cases a certain mismatch may develop between the demand for labour and the supply of it. This will result in rising unemployment levels in those cities, especially for the lower-skilled people. In contrast, cities that already had a profile in which service-sector jobs were more important and which were well-connected to important city networks, may have created a better position to fit the new economic requirements. These will be characterised by an easier expansion of activities in (international) services and knowledge-intensive industry sectors and are able to provide the correct skilled labour, and thus experience fewer mismatches and less unemployment. Some of the cities may, due to their connectedness and professional structure, become well positioned to connect with other major cities in the world and become essential nodes, or even centres of control in new economic networks. In truly global cities with such node or control functions, the rapid development of the service sector will involve the development of a large number of well-paid jobs in high-end producer services but also strong growth of low-paid, often dead-end, jobs associated with serving the better-off. The city type that will develop in such circumstances will typically be the polarised city Sassen (1991) was referring to.

In short, the future of cities is partly conditioned by the historically created economic profile of the city and the level of integration in the global economy. This may or may not lead to increasing social disparities, mismatches, social polarisation or duality (Castells 1989). Yet, even cities that manage to get a strong position in global networks will not automatically become the most segregated cities (Butler and Hamnett 2012); logically, actual social and spatial divisions are highly complex (Marcuse 1989; Hamnett 2012). Nevertheless, for some cities, globalisation brought about growing socio-economic inequalities (van Kempen 2007) and, at least in the USA, also more intensive spatial segregation (Fischer *et al.* 2004; Reardon and Bischoff 2011). In other cities existing economic structures did not suit the globalisation processes. This may have resulted in mismatches between demand and supply of labour, but may also have triggered active professionalisation policies, increasing professional skills throughout the social distribution, therewith reducing the share of lower strata while increasing the middle and upper strata. According to many, professionalisation, not polarisation, has in fact been the main trend in the transformations of employment profiles in European cities. The pattern that was clear in Europe already in the 1980s (Hamnett 1994), and that seems to have become even more prominent in the 1990s (Butler *et al.* 2008; Maloutas and Fujita 2012; Marcińczak *et al.* 2014, 2015; Prêteceille 2000), may not have changed too much in the first decade of the new millennium, although there is difference between cities. In short, we expect a relationship between the 'global' character of a city and the level of social polarisation that will also be reflected in spatial segregation between top and bottom, but that relationship can be mitigated by a range of other forces.

It is hard to quantify such a multidimensional phenomenon as globalisation. We refer to a well-known typology of cities that reflects a city's connection with the global economy (Beaverstock *et al.* 2014) to differentiate between European cities that are more embedded in the space of flows and those that are less. There are three groups and several subcategories of world cities: *Alpha* cities link major economic regions and states to the world economy; *Beta* cities link their region or state to the world economy; and *Gamma* cities connect smaller regions or states to the world economy (Beaverstock *et al.* 2015) Figure 15.4 shows the relationship between world-city status and residential segregation between top and bottom social groups.

The European cities examined in this study virtually represent all categories distinguished by the world-cities taxonomy; major European urban areas range from the iconic *Alpha++* global cities like London to the much-less integrated capital cities of the Baltic States. Then, what do we see when we relate the classification based on this indicator of globalisation with the level of segregation of the cities studied in this volume? And how does that relation change over time?

It can be shown that in 2011 the paradigmatic global city, London, is not the most segregated in Europe anymore; in fact, it is clearly less divided than Madrid (*Alpha*), but also less than Tallinn, a *Gamma* city. This is in concordance with what we see in the United States where the most globalised cities (New York, Los Angeles or Chicago) are not among the top ten most segregated metropolitan

areas (Florida 2014). However, we also see that Tallinn is, in fact, an outlier when it comes to the relation between globalisation and segregation. It used to be moderately socio-economically segregated like other East European cities but became highly ethno-linguistically segregated under socialism (Marcińczak *et al.* 2015; Tammaru and Kontuly 2010). What has happened in Estonia over the past two decades is a growing overlap between ethnic and socio-economic segregation, driven by marked occupational differences between the members of the minority and majority population in very market-driven social and housing contexts that may easily translate income differences into spatial differences (Tammaru *et al.* 2016a). Apart from Tallinn, there appears to be a firm relation between the ‘global’ position and the level of segregation between the ‘top’ and the ‘bottom’ of the social distribution (Figure 15.4). Lower levels of segregation go along with a more moderate position in global networks, while higher levels of segregation go together with a stronger position in global networks. The relation almost remains the same in terms of the strength (in fact it becomes slightly stronger) but was systematically at a higher level in 2011 compared to 2001. In short, there (still) is a firm relationship between globalisation and segregation.

Next to the dimensions we referred to so far – social inequality and globalisation – there are two context-sensitive dimensions that relate to the extent of welfare provision, indicating a type of welfare state, and the characteristics of

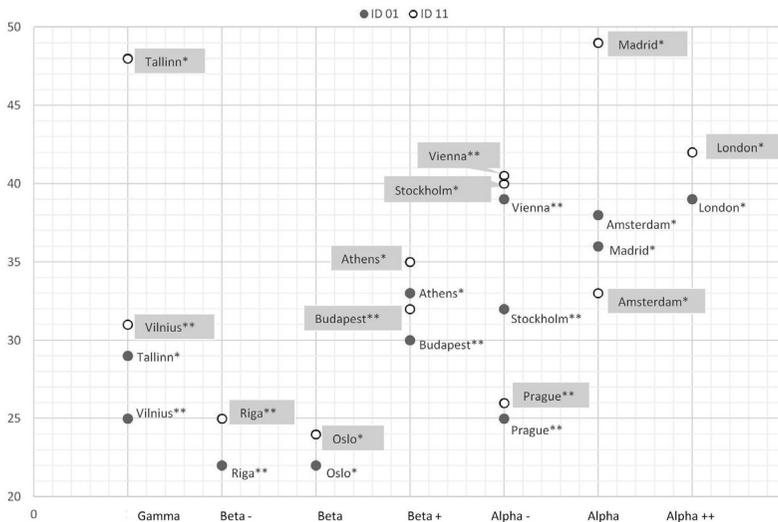


Figure 15.4 World city status and residential segregation between top and bottom social groups in selected European cities.

Notes: \* Metropolitan region, \*\*city.

Madrid, Tallinn, London, Budapest, Vilnius, Athens, Prague, Riga – managers and elementary occupations.

Amsterdam, Oslo, Stockholm – highest and lowest income quintile.

Vienna – university degree and compulsory education.

housing regimes. The forms of housing provision and the degree of housing commodification are tightly linked to the type of welfare state, and both phenomena play a part in shaping levels of socio-economic and ethnic segregation (Arbaci 2007; Musterd and Ostendorf 1998). To further expose the contingent roots of the changing patterns of socio-economic segregation in Europe, we have adopted the well-known typology of welfare states proposed by Esping-Andersen (1990) along with its extensions to south Europe (Allen *et al.* 2004) and to the former socialist countries (Fenger 2007). Consequently, we distinguish between six types of European welfare regimes: democratic, corporatist, corporatist south European, corporatist post-socialist, liberal and liberal post-socialist. The former studies on ethnic divisions in Europe revealed that the liberal welfare-state correlates with evidently higher levels of segregation, while the corporatist and democratic welfare models are related to the lower scale of spatial disparities (Musterd and Ostendorf 1998).

With regard to housing regimes, an important element of the welfare state, we refer to Kemeny's (2002) general division between unitary and dual housing regimes that reflects the degree of government's direct (unitary) and indirect (dual) involvement in housing provision, regulations and subsidies. As this classification is somewhat crude, we are sensitive to regional variations of the two ideal types. Consequently, we also distinguish between the south European (Mediterranean) housing system (Allen *et al.* 2004) and the post-socialist variants of unitary and dual models. The Mediterranean and unitary housing regimes, especially when accompanied by different subtypes of the corporatist welfare-model, have been argued to result in lower levels of segregation than more market-oriented dual housing regimes (Arbaci 2007). It also seems that lower-income households in unitary regimes live in relatively better neighbourhoods compared with their counterparts in different forms of the dual regimes (Norris and Winston 2012). The results from the 13 European cities we included in this volume show that globalisation and post-Fordist economic restructuring contribute to the legible retrenchment of the welfare state in the new millennium (Figure 15.5).

Neo-liberalising states have tremendous impacts on urban housing markets. Urban economic restructuring, reduced welfare state interventions in several domains of life and high international in-migration (in many cities) have firmly affected structural changes over the past decades. Still, there is an enormous difference between state provisions within Europe; this holds for the distinction between north and West European contexts compared to East and south European contexts, but after a closer look we also see important differences within these blocks. In north-west Europe, for example, the Dutch, the UK and Swedish welfare states all have their own character, albeit that the UK is standing out in terms of their liberal regime. In terms of housing and urban intervention, this makes a big difference. The Norwegian institutional milieu is also particularly interesting as a strong democratic welfare model coincides with a market-oriented dual housing regime. Even in rather similar states, such as Sweden and the Netherlands, the types of interventions are different. In Sweden, for example, urban renewal is much less realised through demolition and replacement by building new dwellings

than in the Netherlands. Institutional arrangements also differ between the countries mentioned because of different economic structures and differences in terms of how projects have been financed, how mortgage systems have been developed and the like. This has had evident impacts as we see that a city like Stockholm has hardly been hit by the recent crisis, whereas Amsterdam and the Baltic States clearly have experienced rather strong effects. Also within southern Europe there are differences. What we see is that family solidarity networks (requiring spatial proximity) are still very important drivers for changing levels of segregation in Athens and Milan but gradually less so in Madrid. In East Europe, with the exception of the Czech Republic that largely preserved the corporatist welfare regime and a significant public role in housing provision, the systemic transformation that started in the early 1990s brought about a massive privatisation of housing and a deep liberalisation and vanishing of social safety nets that, in turn, boosted the rising economic inequality.

In Figure 15.5 the index of dissimilarity of the 12 cities is plotted against seven welfare-state and housing regimes. Overall, it seems that the different types of welfare-state and housing regimes are only modestly related to the levels of socio-economic spatial divisions of the top and bottom social strata in European cities, and that the relationship has weakened (Figure 15.5). However, there is more structure in the data than initially expected. In the early 2000s, former socialist cities, even those in the most liberal contexts, were still the least segregated.

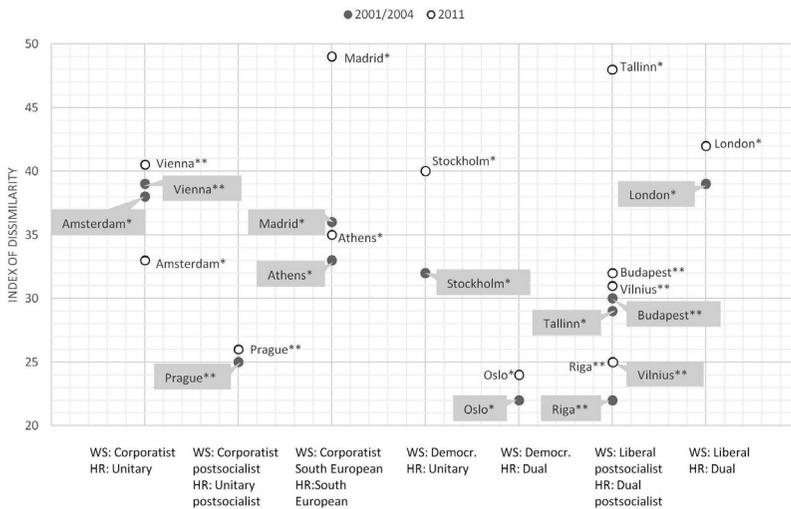


Figure 15.5 Welfare states, housing regimes and residential segregation between top and bottom social groups in selected European cities.

Notes: \* Metropolitan region, \*\*city.

Madrid, Tallinn, London, Budapest, Vilnius, Athens, Prague, Riga – managers and elementary occupations.

Amsterdam, Oslo, Stockholm – highest and lowest income quintile.

Vienna – university degree and compulsory education.

This may be ascribed to the forced egalitarianism that existed under the totalitarian socialist regimes some decades ago. That impact changed from 1989/1991 onwards but only with a time lag. The differences between north-west and south Europe are also evident, with the dual housing regime and liberal welfare state being the most segregated and the social-democratic welfare regime characterised by noticeably lower levels of segregation. One relation is particularly intriguing, however. There are several welfare states that are rather similar, such as the democratic welfare states in Norway and Sweden but perhaps also the Netherlands. Nevertheless, levels of segregation between the top and bottom of the social division are clearly different between the capital cities of these states (Oslo versus Amsterdam and Stockholm) or they develop in a different direction (Amsterdam versus Stockholm).

Levels of socio-economic segregation vary a lot within similar housing systems. In some countries with strong public involvement in the housing sector (unitary housing system), we find both low levels of segregation (Prague) and high levels of segregation (Stockholm and Vienna). True, we do not know what would be the levels of socio-economic segregation in the latter two cities if no elaborate housing policies existed. In countries with dual housing systems, we find significant variation too. Tallinn and London represent high levels of segregation, while Oslo represents low levels of segregation. The latter implies that market-based housing systems should not necessarily lead to high levels of segregation, at least in the context of an otherwise generous welfare system.

Finally, various developments interfere with each other. Amsterdam, with its stronger position in terms of globalisation (which drives segregation up) also experienced more than a decade of more liberal housing market intervention (also driving segregation up), while after 2008 the crisis had its effects as well (freezing segregation patterns). In Sweden neo-liberalisation also has had its effect and created more social spatial inequality, with higher levels of separation between top and bottom social categories than before. In fact, both cities have moved into a direction which is comparable to what we see elsewhere in more easily recognised liberal contexts, such as London, but also in more recent liberal environments, such as Madrid and the capital cities of the Baltic States. In all cases we may observe a positive correlation between the liberal welfare and housing regimes and socio-economic segregation, but the relationship between welfare regimes and housing systems with residential segregation is very complex and requires more in-depth analysis.

## **Conclusions and new perspectives**

The comparative study of socio-economic residential segregation in European cities is almost new territory. So far, few studies have dealt with socio-economic segregation in a comparative research framework. This volume has the ambition to provide new insights related to socio-economic segregation and especially the factors which help to explain the levels and dynamics of segregation. In the theoretical framework we presented in Chapter 1, we elaborated on the potential

changes in European capital cities and on the impact of globalisation, economic restructuring, welfare regime shifts and changing social inequality in general. We also referred to the previously developed historical development paths and to potential intervening factors, such as segregation in other domains, including ethnic/cultural and demographic domains. The introduction suggested that understanding social-spatial segregation in cities and/or their metropolitan areas is quite a challenge. Most importantly, the theory-grounded hypothesised ranking of European capital cities as introduced in Chapter 1 was not entirely confirmed by the actual patterns of socio-economic segregation. In this final section of the final chapter we will highlight some of the most salient findings from this volume and illuminate the mismatch between theory and reality.

We can draw two main conclusions from the analysis presented in this volume. The first is that the levels of socio-economic segregation in European capital cities are still rather modest. Segregation levels in cities in the Americas, Africa and parts of East Asia (Florida 2014; Maloutas and Fuijta 2012) are (much) higher than in Europe, and the negative side effects of high levels of segregation are only making their way into urban and political debates in Europe. However, the second main finding from this volume is that in the last decade Europe has been slipping, albeit slowly, into the epoch of growing inequalities and segregation. Under the influence of (neo-)liberal transformations in welfare states, and under the influence of the fact that several European cities also managed to become embedded in strong global networks and flows of people, the levels of socio-economic segregation are moving upwards. So far, this did not yet produce extreme levels of segregation in European cities, but Europe is clearly heading in the direction of higher levels of socio-economic divisions and especially in terms of the spatial separation of the top and bottom of social distributions. Three-quarters of the cities we included in this volume showed increasing levels of segregation of the top social categories, and a similar share showed increasing segregation of the lowest social categories. However, the spatial gap between the more extreme categories, those that have and those that have not, is widening in *all* capital cities across Europe.

We found that the shape of the 'segregation distribution' (low versus the rest; middle versus the rest and high versus the rest) is generally U-shaped, with more segregation of the higher-social strata than of the lower-social strata also in former totalitarian socialist environments. However, due to the complexity of the matter, we cannot speak of a universal shape of the relationship between class and space. In two-thirds of the European capital cities we investigated, higher social classes still form the most segregated social category; however, the remaining cases show other outcomes. All in all, it is clear that segregation between the two groups in European cities tend to be increasing. Nevertheless, we have also shown that there still is quite some variation in levels of segregation. Some of that seems to be caused by time lags between the development of socio-economic inequality and segregation. This was evident in the former socialist countries in the East of Europe but also elsewhere. Social inequalities that have developed three or four decades ago still have an enormous impact on current social spatial disparities. Other contributions to the variation in outcomes come from temporal factors, such

as relatively short-term economic, financial or housing crises. These examples illustrate that for a fuller understanding of trends in socio-economic segregation, we would need an extended time frame on top of the ten years we used in this volume to fully grasp the complex relation between inequality and segregation. Finally, several contributions in this volume have discussed the relationship between socio-economic and ethnic segregation. In some places, neighbourhoods and cities, that relationship is strong, but it has also been shown that this is not a one-to-one relationship. In some cases social distances between social classes within the category non-natives were even bigger than social distances within the category natives. Caution is required here and researchers and policy makers should not automatically assume that 'non-western' migrants are all lower class.

Institutional arrangements – welfare-state regimes or housing regimes – may be developed in such a way that these can effectively temper social inequalities. However, welfare and housing regimes may also be designed in such a way that social inequalities are increased. We currently seem to have entered an era in which the latter type of regime has taken centre stage, with increasing segregation as a result. Currently, even a country like Sweden, which has long been the example par excellence for redistributing affluence and therewith was the prototype of a country that managed to avoid high levels of social spatial segregation, is showing rapidly increasing levels of segregation. Although there is no simple one-to-one relationship between the riots in Stockholm in the summer of 2013 and increasing socio-spatial segregation, the riots have caused much debate on the direction Sweden is taking and the causes of social unrest in the most deprived neighbourhoods (Malmberg *et al.* 2013). The actual European reality is that most welfare regimes have become more market oriented to stimulate the economy in a liberal way, with increasing social inequality as a side effect.

The relationship between increasing socio-economic segregation in Europe and situations that are seriously threatening urban social life (such as riots) is an issue that does not yet seem to be fully understood. Extreme forms of segregation include gated communities for the top end of the socio-economic distribution, and inaccessible ghettos or favelas for the bottom ends of the socio-economic distribution. The potential estrangement that may be the result of such contrasts – people increasingly will be unaware of the lives of contrasting classes – might be dynamite under the social stability of our future cities. The increasing number of no-go areas in our cities implies that ultimately major parts of cities are regarded to be no part of urban life anymore, which implies a serious limitation of freedom in such cities, and are having a major impact on the lives of those living in these no-go areas. Social apartheid, a process involving social discrimination and manifested in very high inequalities and spatial separation of the rich and the poor (Löwy 2003), could be the ultimate outcome of these urban social processes.

The explanatory framework for urban socio-economic segregation is highly complicated because of the many different dimensions simultaneously playing a role and over a longer period of time. One explanatory factor is not enough to illuminate the changing levels of segregation in Europe. In general, a liberal (market-oriented) institutional environment and higher levels of social inequality

result in more separated spatial divisions. But less market does not necessarily entail lower levels of segregation (see Oslo versus Stockholm). Globalisation seems to be a relatively strong indicator of segregation, as long as we are satisfied with the general conclusion that *Alpha* cities (cities which link major economic regions and states to the world economy) are more segregated than other types of cities. Yet other factors may enhance or mitigate such a relation. A further explanatory factor of socio-economic segregation to consider is ‘space’ and inherited urban physical fabric. Some areas retain their attraction for certain niche groups over a long period of time, although a new valuation of spaces also may occur. Inner-city neighbourhoods that were regarded as not being attractive in the 1970s and 1980s have been gentrified by middle-class households that settled in originally blue-collar neighbourhoods. On the other hand, some neighbourhoods, large estates of mass-produced blocks of flats in particular, have been steadily losing middle-class residents. Put differently, the social and physical upgrading of neighbourhoods, as well as the reverse trend of social and spatial decay of neighbourhoods, plays an important role in shaping new social geographies of segregation.

To conclude, we have found that levels of socio-spatial segregation in Europe are still relatively modest compared to the rest of the world, but that they are increasing. We found that four central indicators of the multi-factor approach – welfare and housing regime, globalisation and economic restructuring, rising social inequality and historical development paths – all play a big role in changing the social urban landscape in Europe. It is also clear that understanding local institutional, social and physical contexts are crucial for a better understanding of changing social segregation patterns. These factors are, however, not stable over time, since contexts are changing continuously, through the enlargement of the European Union, neo-liberalization of states, immigration, economic crises and urban transformations. The ultimate lesson of this book is that a combination of both structural factors and a context-sensitive approach is needed to fully understand the socio-economic segregation processes to allow policy-makers to counter the negative effects that endanger the stability of European cities.

### **Acknowledgements**

We thank Michael Gentile, Wouter van Gent and Thomas Maloutas for their helpful comments on this chapter. The research leading to these results has received funding from the Estonian Research Council (Institutional Research Grant IUT no. 2–17 on Spatial Population Mobility and Geographical Changes in Urban Regions); the European Research Council under the European Union’s Seventh Framework Programme (FP/2007-2013) / ERC Grant Agreement no. 615159 (ERC Consolidator Grant DEPRIVEDHOODS, Socio-spatial Inequality, Deprived Neighbourhoods, and Neighbourhood Effects); and from the Marie Curie programme under the European Union’s Seventh Framework Programme (FP/2007–2013) / Career Integration Grant no. PCIG10-GA-2011-303728 (CIG Grant NBHCHOICE, Neighbourhood Choice, Neighbourhood Sorting, and Neighbourhood Effects).

## Notes

- 1 We use the term East Europe for countries that used to be part of the state-socialist centrally planned countries for the five decades after World War II (Czech Republic, Estonia, Hungary, Latvia and Lithuania in this book), and West Europe to the rest of Europe (Austria, Greece, Italy, Netherlands, Norway, Spain, Sweden, United Kingdom in this book).
- 2 The shape of segregation curves in Athens might also be the result of the heterogeneous composition of occupations included in the group of 'managers and higher representatives'. The group in Athens also includes middle and even low middle income categories.

## References

- Allen, J, Barlow, J, Leal, J, Maloutas, T and Padovani, L 2004, *Housing and welfare in Southern Europe*, Oxford, Blackwell Science.
- Arbaci, S 2007, 'Ethnic segregation, housing systems and welfare regimes in Europe' *International Journal of Housing Policy* 7(4), 401–433.
- Beaverstock, J, Smith, R and Taylor, P 2015, 'Global city network'. Available online: <http://www.lboro.ac.uk/gawc>. Accessed 10 May 2015.
- Booth, C 1887, 'The inhabitants of Tower Hamlets (School Board Division), their condition and occupations', *Journal of the Royal Statistical Society* 50(2), 326–401.
- Booth, C 1888, 'Conditions and occupations of the people in East London and Hackney' *Journal of the Royal Statistical Society* 51(2), 276–331.
- Butler, T, Hamnett, C and Ramsed M 2008, 'Inward and upward: Marking out social class change in London, 1981–2001' *Urban Studies* 45(1), 67–88.
- Brown, L A and Chung, C Y 2008, 'Market-led pluralism: Rethinking our understanding of racial/ethnic spatial patterning in U.S. cities' *Annals of the Association of American Geographers* 98(1), 180–212.
- Burgers, J and Musterd, S 2002, 'Understanding urban inequality: A model based on existing theories and an empirical illustration' *International Journal of Urban and Regional Research* 26(2), 403–413.
- Castells, M 1989, *The informational city*, Oxford, Blackwell.
- Dangschat, J 1987 'Sociospatial disparities in a "socialist" city: the case of Warsaw at the end of the 1970s' *International Journal of Urban and Regional Research* 11(1), 37–60.
- Duncan, O D and Duncan, B 1955, 'Residential distribution and occupational stratification' *American Journal of Sociology* 60(4), 493–503.
- Engels, F 1892, *The condition of the working class in England in 1844* London, David Price.
- Esping-Andersen, G 1990, *The three worlds of welfare capitalism*, Cambridge, Polity.
- Fainstein, S S, Gordon, I and Harloe, M 1992, *Divided cities: New York and London in the contemporary world*, Oxford, Blackwell.
- Farley, R, Schuman, H, Bianchi, S, Colasanto, D and Hatchet, S. 1978, 'Chocolate city, vanilla suburbs: Will the trend toward racially separate communities continue?' *Social Science Research* 7(3), 319–344.
- Fenger, H 2007, Welfare regimes in Central and Eastern Europe: Incorporating post-communist countries in a welfare regime typology. Available online: <http://journal.ciiss.net/index.php/ciiss/article/viewPDFInterstitial/45/37>. Accessed 10 May 2015.
- Fischer, C S, Stockmayer, G, Stiles, J and Hout, M 2004, 'Distinguishing the geographical levels and social dimensions of U.S. metropolitan segregation 1960–2000' *Demography* 43(1), 37–59.

- Florida, R 2014, 'The U.S. cities with the highest levels of income segregation'. Available online: <http://www.citylab.com/work/2014/03/us-cities-highest-levels-income-segregation/8632/>. Accessed 28 April 2015.
- Freeman, L 2009, 'Neighborhood diversity, metropolitan segregation and gentrification: What are the links in the US?' *Urban Studies* 26(10), 2079–2101.
- French, R A and Hamilton F E I (eds) 1979, *The Socialist city: Spatial structure and urban policy*, New York, John Wiley & Sons.
- Fujita, K 2012, 'Conclusions: Residential segregation and urban theory' in *Residential segregation around the world: Why context matters*, eds. T Maloutas and K Fujita, London, Ashgate, pp. 285–315.
- Galster, G and Booza J 2007, 'The rise of bipolar neighborhood' *Journal of the American Planning Association* 73(4), 421–435.
- Hamnett, C 1994, 'Social polarisation in global cities: Theory and evidence' *Urban Studies* 31(3), 401–424.
- Hamnett, C 2012, 'Urban social polarization' in *International handbook of globalization and world cities*, eds B Derudder, M Hoyler, P J Taylor and F Witlox, Cheltenham, UK, Edward Elgar, pp. 361–368.
- Huttman, E, Blauw, W and Saltman, J (eds) 1991, *Urban housing: Segregation of minorities in Western Europe and the United States*, Durham, NC, Duke University Press.
- Kantor, P and Savitch, H V 2005, 'How to study comparative urban development politics: A research note' *International Journal of Urban and Regional Research* 29(1), 135–151.
- Kemeny, J 2002, *From public to the social market: Rental policy strategies in comparative perspective*, London, Routledge.
- Kovács, Z, Wiessner, R and Zischner, R 2013, 'Urban renewal in the inner city of Budapest: Gentrification from a post-socialist perspective' *Urban Studies* 50(1), 22–38.
- Ladányi, J 1989, 'Changing patterns of residential segregation in Budapest' *International Journal of Urban & Regional Research* 13(4), 555–572.
- Lowy, M 2003, 'The long march of Brazil's labor party. Brazil: A country marked by social apartheid' *Logos* 2(2). Available online: <http://www.logosjournal.com/lowy.htm>. Accessed 28 April 2015.
- Malheiros, J 2002, 'Ethni-cities: Residential patterns in the northern European and Mediterranean metropolises – implications for policy design' *International Journal of Population Geography* 8(1), 107–134.
- Malmberg, B, Andresson, E and Östh J 2013, 'Segregation and urban unrest in Sweden' *Urban Geography*, 34(7), 1031–1046.
- Maloutas, T 2007, 'Segregation, social polarization and immigration in Athens during the 1990s: Theoretical expectations and contextual difference' *International Journal of Urban and Regional Studies* 31(4), 733–758.
- Maloutas, T and Fujita, K (eds) 2012, *Residential segregation in comparative perspective. Making sense of contextual diversity*. City and society series, Farnham, UK, Ashgate.
- Manley, D and Johnston, R 2015, 'London: A dividing city, 2001–11?' *City* 18(6), 633–643.
- Manley, D and van Ham, M 2011, 'Choice-based letting, ethnicity and segregation in England' *Urban Studies* 48(14), 3125–3143.
- Marcińczak, S, Gentile, M, Rufat, S and Chelcea, L 2014, 'Urban geographies of hesitant transition: Tracing socio-economic segregation in post-Ceausescu Bucharest' *International Journal of Urban and Regional Research* 38(4), 1399–1417.
- Marcińczak, S, Gentile, M and Stępnik, M 2013, 'Paradoxes of (post)socialist segregation: Metropolitan sociospatial divisions under socialism and after in Poland' *Urban Geography* 34(3), 327–352.

- Marcińczak, S, Tammaru, T, Novak, J, Gentile, M, Kovács, Z, Temelova, J, Valatka, V, Kährlik, A and Szabo, B 2015, 'Patterns of socioeconomic segregation in the capital cities of fast-track reforming postsocialist countries' *Annals of the American Association of Geographers* 105(1), 183–202.
- Marcuse, P. 1989, "'Dual city": A muddy metaphor for a quartered city' *International Journal of Urban and Regional Research* 13(4), 697–708.
- Marcuse, P and van Kempen, R (eds) 2002, *Of states and cities: The partitioning of urban space*, Oxford, Oxford University Press.
- Massey, D S 1996, 'The age of extremes: Concentrated affluence and poverty in the twenty-first century' *Demography* 33(4), 395–412.
- McFarlane, C and Robinson, J 2012, Introduction – experiments in comparative urbanism' *Urban Geography* 33(6), 765–773.
- Morgan, B 1975, 'The segregation of socio-economic groups in urban areas: A comparative analysis' *Urban Studies* 12(1), 47–60.
- Morgan, B 1980, 'Occupational segregation in metropolitan areas in the United States, 1970' *Urban Studies* 17(1), 63–69.
- Musterd, S 2005, 'Social and ethnic segregation in Europe; Levels, causes and effects' *Journal of Urban Affairs* 27(3), 331–348.
- Musterd, S and Ostendorf, W (eds) 1998, *Urban segregation and the welfare state: Inequality and exclusion in Western Cities*, London, Routledge.
- Musterd, S, van Gent, W, Das, M and Latten, J 2014, 'Adaptive behaviour in urban space; Residential mobility in response to social distance' *Urban Studies* DOI: 10.1177/0042098014562344. Accessed 28 April 2015.
- Musterd, S and van Kempen, R 2007, 'Trapped or on the springboard? Housing careers in large housing estates in European cities' *Journal of Urban Affairs* 29(3), 311–329.
- Nightingale, CH 2012, *Segregation: A global history of divided city*, Chicago, University of Chicago Press.
- Nijman, J 2007, 'Introduction – comparative urbanism' *Urban Geography* 28(1), 1–6.
- Norris, M and Winston, N 2012, 'Home-ownership, housing regimes and income inequalities in Western Europe' *International Journal of Social Welfare* 21(2), 127–138.
- Park, E P, Burgess, E W and McKenzie, R D 1925. *The city: Suggestions for investigation of human behavior in the urban environment*, Chicago, University of Chicago Press.
- Pickvance, C 1986, 'Comparative urban analysis and assumptions in comparative research' *International Journal of Urban and Regional Research* 10(2), 162–184.
- Piketty, T 2013, *Capital in the 21st century*, Cambridge, MA, Harvard University Press.
- Préteceille, E 2000, 'Segregation, class and politics in large cities' in *Cities in contemporary Europe*, eds A Bagnasco and P Le Gales, Cambridge, Cambridge University Press, pp. 74–97.
- Reardon, S F and Bischoff, K 2011, 'Income inequality and income segregation' *American Journal of Sociology* 116(4), 1092–1153.
- Robinson, J 2011, 'Cities in a world of cities: The comparative gesture' *International Journal of Urban and Regional Research* 35(1), 1–23.
- Sassen, S. 1991, *The global city: New York, London, Tokyo*, Princeton, NJ, Princeton University Press.
- Smith, N 2002, 'New globalism, new urbanism: Gentrification as global urban strategy' *Antipode* 34(3), 427–450.
- Stanilov, K and Sýkora, L (eds) 2014, *Confronting suburbanization: Urban decentralization in postsocialist Central and Eastern Europe*, Oxford, Wiley Blackwell.
- Stiglitz, J 2012, *The price of inequality: How today's divided society endangers our future*, New York, W.W. Norton.

- Sýkora, L 2009, 'New socio-spatial formations: Places of residential segregation and separation in Czechia' *Tijdschrift voor Economische en Sociale Geografie* 100(4), 417–435.
- Szelényi, I 1987, 'Housing inequalities and occupational segregation in state socialist cities. Commentary to the special issue of IJURR on east European cities' *International Journal of Urban and Regional Research* 11(1), 1–8.
- Tammaru, T and Kontuly, T 2011, 'Selectivity and destinations of ethnic minorities leaving the main gateway cities of Estonia' *Population, Space and Place* 17(5), 674–688.
- Tammaru, T, Kährlik, A, Mägi, K Novák, J and Leetmaa, K 2016a, 'The "market experiment": Increasing socio-economic segregation in the inherited bi-ethnic context of Tallinn' in *Socio-economic segregation in European capital cities: East meets West*, eds T Tammaru, S Marcińczak, M van Ham and S Musterd, London, Routledge.
- Tammaru, T, Musterd, S, van Ham, M and Marcińczak, S, 2016b, 'A multi-factor approach to understanding socio-economic segregation in European capital cities' in *Socio-economic segregation in European capital cities: East meets West*, eds T Tammaru, S Marcińczak, M van Ham and S Musterd, London, Routledge.
- van Ham, M and Manley, D 2009, 'Social housing allocation, choice and neighbourhood ethnic mix in England' *Journal of Housing and the Built Environment* 24, 407–422.
- van Kempen, R 2007, 'Divided cities in the 21st century: Challenging the importance of globalization' *Journal of Housing and Built Environment* 22(1), 13–31.
- van Kempen R and Murie, A 2009, 'The new divided city: Changing patterns in European cities' *Tijdschrift voor Economische en Sociale Geografie* 100(4), 377–398.
- Villaca, F 2011, 'São Paulo: urban segregation and inequality' *Estudos Avançados* 25(71), 37–58
- Ward, K 2010, 'Towards a relational comparative approach to the study of cities' *Progress in Human Geography* 34(4), 471–487.
- Watson, T 2009, 'Inequality and the measurement of residential segregation by income in American neighborhoods' *The Review of Income and Wealth* 55(3), 820–844.
- York, A M, Smith, M E Stanley, B W, Stark, B L, Novic, J, Harlan, S L, Cowgill, G L and Boon, CG 2012, 'Ethnic and class clustering through the ages: A transdisciplinary approach to urban neighbourhood social patterns' *Urban Studies* 48(11), 2399–2415.
- Zorbaugh, HW 1929, *The gold coast and the slum: A sociological study of Chicago's near north side*, Chicago, University of Chicago.