

The New DNA of Danish spatial planning culture

The case of regional planning

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U R B A N P L A N N I N G A N D E N V I R O N M E N T

Nordic Experiences of Sustainable Planning

Policy and Practice



Edited by
Sigríður Kristjánsdóttir

ROUTLEDGE

Nordic Experiences of Sustainable Planning

For well over a decade, there has been a drive towards sustainability in planning throughout the Nordic countries. But are these countries experiencing a paradigm shift in planning research and practice with regards to sustainability? Or is the sustainability discourse leading them into an impasse in planning?

This book includes overviews of the planning systems in the five Nordic countries, drawing attention to their increasing focus on sustainability. A leading team of scholars from the fields of planning, urban design, architecture, landscape, economics, real estate and tourism explore how the notion of sustainability has shaped planning research in the Nordic countries. Case studies from Iceland, Sweden, Finland, Norway and Denmark shed light on what lessons can be learned and some possible future developments. By focusing on the actual settings and practices of local and regional planning activities, it enables a discussion on the current state of planning for a more sustainable future.

This book will be valuable reading for students and academics interested in planning policy, environmental policy, architecture and urban design work.

Sigríður Kristjánsdóttir is an Assistant Professor in the Faculty of Natural Resources and Environmental Sciences at the Agricultural University of Iceland.

Urban Planning and Environment

Series Editors: Donald Miller and Nicole Gurran

Maintaining and enhancing living conditions in cities through a combination of physical planning and environmental management is a newly emerging focus of governments around the world. For example, local governments seek to insulate sensitive land uses such as residential areas from environmentally intrusive activities such as major transport facilities and manufacturing. Regional governments protect water quality and natural habitat by enforcing pollution controls and regulating the location of growth. Some national governments fund acquisition of strategically important sites, facilitate the renewal of brown fields, and even develop integrated environmental quality plans. The aim of this series is to share information on experiments and best practices of governments at several levels. These empirically-based studies present and critically assess a variety of initiatives to improve environmental quality. Although institutional and cultural contexts vary, lessons from one commonly can provide useful ideas to other communities. Each of the contributions are independently peer reviewed, and are intended to be helpful to professional planners and environmental managers, elected officials, representatives of NGOs, and researchers seeking improved ways to resolve environmental problems in urban areas and to foster sustainable urban development.

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Nordic Experiences of Sustainable Planning

Policy and Practice

Edited by Sigríður Kristjandóttir

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This book is dedicated to my sons Elías, Kristján and Hannes



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Contents

<i>List of figures</i>	x
<i>List of tables</i>	xii
<i>List of contributors</i>	xiv
<i>Foreword</i>	xix
<i>Preface</i>	xxi
<i>Acknowledgements</i>	xxiii
PART I	
Setting the scene	1
1 Introduction: the planning pyramid	3
SIGRÍÐUR KRISTJÁNSDÓTTIR	
2 Enduring the neo-liberal rollercoaster: resilience or sustainability as planning theory's response?	15
TORÉ SAGER	
PART II	
Nature and economy	35
3 The physical frame of planning	37
SIGRÍÐUR KRISTJÁNSDÓTTIR	
4 Co-management in environmental planning: an alternative to the precautionary principle	48
ARVID VIKEN AND TORILL NYSETH	
5 Cycles in housing markets, policy and finance	64
LÚÐVÍK ELÍASSON	

PART III

Government and regulations 85

6 The planning system and practice in Norway 87

EVA IRENE FALLETH AND BERIT IRENE NORDAHL

7 The new DNA of Danish spatial planning culture: the case of regional planning 105

CARSTEN JAHN HANSEN

8 The history of Swedish planning 127

KRISTINA L. NILSSON

9 Icelandic planning: milestones of sustainability 138

SIGRÍÐUR KRISTJÁNSDÓTTIR

10 Balancing between efficiency and sustainability: discourses on the Finnish land-use planning system 156

HANNA MATTILA

PART IV

Built environment 175

11 How does the carbon-neutral settlement of Brøset contribute to a new paradigm in planning the urban fabric? 177

DAG KITTANG

12 A suburb in limbo: from an idea conceived in an economic boom and realised during a crisis: a case study of a Reykjavík suburb 199

SIGRÍÐUR KRISTJÁNSDÓTTIR

13 Three restricted developer competitions: experiences from Sweden 213

MAGNUS RÖNN

PART V	
Liveable community	241
14 Finnish local government reform: juxtaposing cost structures and the centre-periphery relations of municipalities in urban regions	243
RAINE MÄNTYSALO, OLAVI KALLIO, PETTERI NIEMI, JARMO VAKKURI AND JARI TAMMI	
15 Rebound effects for reduced car ownership and driving	263
JUUDIT OTTELIN, JUKKA HEINONEN AND SEPPO JUNNILA	
16 When planners aim for more sustainable cities: lessons from Scandinavia	284
ENZA LISSANDRELLO	
PART VI	
Future scenarios	299
17 Urbanity as a strategic aim: will the Nordic cities be sustainable in 2030?	301
JOHANNA LILIUS	
18 Discussion and conclusions	317
SIGRÍÐUR KRISTJÁNSDÓTTIR	
<i>Index</i>	320

Figures

1.1	The planning pyramid	8
3.1	The physical frame of Reykjavík	41
5.1	The supply and demand for housing	66
5.2	Adjustment paths for prices and the quantity of housing	67
5.3	Policy response: lower building cost	68
5.4	Policy response: lower mortgage cost	69
5.5	Temporary increase in demand	70
5.6	Real apartment prices in Reykjavík, 1961–2015	71
5.7	Housebuilding in Iceland	72
5.8	Long-term real interest rates, 1964–2015	73
5.9	Population (in thousands) of the capital region and of other areas in Iceland, 1911–2016	74
5.10	Household debt as a fraction of GDP, 1986–2014	76
6.1	The planning system in local government	96
7.1	The Danish planning system after 1 January 2007	113
7.2	The Danish planning system after 1 February 2014, including RGDSs	116
8.1	The Swedish planning system	133
9.1	National planning policy and the levels of planning	149
9.2	Timeline emphasising how sustainable ideology is integrated into laws and regulations	153
10.1	The Finnish planning system	160
11.1	The urban structure of Brøset and the connection to the axis of public transport	185
11.2	The parallel commission's proposals for the development of Brøset	187
11.3	Illustrations of the rural-urban life of Brøset	189
11.4	3D model of the approved area zoning plan	192
12.1	Úlfarsárdalur	204
12.2	The frame-plan for Úlfarsárdalur that was selected to be developed further	205
12.3	The seasonal city pond	207
12.4	The avenue	208

12.5	Plots and buildings	209
13.1	Land allocation policy in Sollentuna, Stockholm and Gothenburg	214
13.2	Perspectives of the winning designs in Danderyd, Nacka and Trelleborg	216
13.3	Model for restricted competition	219
13.4	Invitation on the home page in Danderyd and as special documents (invitations) in Nacka and Trelleborg	220
14.1	The urban region with municipalities surrounding the central city's centre in different distance rings	247
15.1	The rebound effect for (a) reduced driving, and (b) giving up ownership and driving a car, with varying assumptions about substituting consumption	273
15.2	Carbon footprints per capita, depending on the amount of driving	275
15.3	Carbon footprints per capita in rural and urban areas in Finland	276
17.1	The number of inhabitants in the Nordic capitals will grow in the upcoming years	302
18.1	Timeline showing major steps in development of national planning legislation in the Nordic countries since the beginning of the twentieth century	318

Tables

6.1	An overview of the development of the Norwegian planning system	93
6.2	Planning authorities and the most important formal planning instruments	94
7.1	A brief overview of milestones in Danish spatial planning, with emphasis on later decades	111
8.1	Milestones in Swedish planning history	134
9.1	Chronology of Reykjavík's early planning history	146
9.2	Chronology of Reykjavík's planning history – equity and welfare	146
9.3	Chronology of Reykjavík's planning history – environment	147
9.4	Chronology of Reykjavík's planning history – economy	148
10.1	Milestones in the development of Finnish spatial planning	171
11.1	Percentage distribution of transport options in different parts of the Trondheim region, 2009–2010	184
13.1	Applicants, participants and winners	226
13.2	General requirements in the invitation	226
13.3	Specific demands in invitations	227
13.4	Evaluation criteria in invitations	228
14.1	The regions and municipalities required by the PARAS Act to draw up urban regional plans, as well as those which did so voluntarily	252
14.2	Urban regions and the number of municipalities, arranged by distance in the study year of 2005	254
14.3	Urban regions and the number of municipalities, ordered by distance in the study in 2010	255
14.4	The number of municipalities in different distance classes included in the statistical review	256
14.5	Changing taxable incomes of municipality classes in 2005 and 2010 across different distances from the urban regions' centres	257
14.6	Changing total tax revenue of municipality classes in 2006 and 2010	257

14.7	Changes in net costs of municipality classes in social and healthcare in 2006 and 2010	258
14.8	Changes in net operating costs of municipality classes in 2006 and 2010	258
14.9	Changes in acquisition costs of investment in 2006 and 2010	259
15.1	Studies on transport-related rebound effects	266
15.2	Descriptive data on the studied sub-groups (of working middle-income class residents)	270
15.3	Average GHG intensities of the selected consumption categories	270
15.4	The income elasticities of demand for aggregated consumption categories (working middle-income class income and expenditure per capita)	271
15.5	Results from multivariable regression analyses	274
16.1	Planners' performativity when aiming for sustainable cities	294
17.1	Growth strategies in Nordic capitals	309
17.2	Concrete goals in the city plans	310

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Foreword

Emerging from the PLANNORD network of planning scholars from Denmark, Finland, Iceland, Norway and Sweden, this book offers 17 chapters and 17 different perspectives on current planning issues in the Nordic countries. The book title presents the overall topic as sustainable planning policy and practice. Interpreted in a wide sense, all chapters are arguably related in some way to the concept of sustainability, some more closely and others somewhat more remotely. The common context of the different contributions is the Nordic welfare states during a period of neo-liberal restructuring and contradictory policy goals. The Nordic countries were early to adopt the sustainability agenda in spatial planning, and combined with the 'Nordic model' for state-market relationships, and a comparably high popular acceptance of public planning, this context forms an interesting background for assessing what has been achieved and what has not in the endeavour of sustainable planning policy and practice. Under the section headings 'Setting the scene', 'Nature and economy', 'Government and regulations', 'Built environment', 'Liveable community' and 'Future scenarios' the chapters encompass topics and agendas at the forefront of current Nordic planning practice and research. Icelandic authors have written five of the chapters, reflecting the current proliferation of planning research in Iceland, as well as the domestic base of the volume editor.

Planning policy and practical experience across the Nordic countries offers interesting lessons for planning scholars, students and practitioners in a wider European and international context, as well as within the setting of each Nordic country. Enjoy reading!

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Preface

The only constant thing in life is change!

Society is in constant flux as new ideas come forth and technology advances ever faster. The main purpose of planning is to guide society through changes in such a way that everyone benefits.

By looking back on recent history it becomes apparent that our surroundings are constantly changing. On a day-to-day basis the transition is slow, but history shows that over longer timespans change happens rapidly. Such changes do not happen by accident, but rather as a result of a series of deliberate planning decisions.

Planning issues are often the source of heated debate. Although everyone seems to have strong opinions about planning issues, academic discussions and research are needed in order to gain a proper understanding of the debated topics. It is important to think about the development of the planning field and the latest research, as well as the current issues.

The book's background: PLANNORD

PLANNORD is a network of Nordic researchers and practitioners within the planning field, one which facilitates discussion of emerging planning paradigms, challenges, trends and practices in the Nordic countries – as well as the sharing of research and experience – in order to meet the future in a dynamic and constructive way.

This network is a platform for exchanging knowledge concerning spatial planning in connection with various development conditions and different scales of spatial governance activities, particularly at local-regional level. PLANNORD seeks to provide an opportunity to look across the spectrum of planning activities in search of the new settings and roles that spatial planning adopts in societal development in the Nordic countries.

In 2013 the PLANNORD symposium on Nordic experiences of planning for sustainability was held in the city of Reykjavík, Iceland. The research behind most of the chapters in this book were originally presented there. Reykjavík is the capital of, and largest city in, Iceland, with a population of

approximately 120,000 (and more than 200,000 if one includes the outlying suburbs). Sustainability is the main theme of the city's environmental and resource policy-making, making it the perfect place to launch a book on sustainability issues in planning.

This book serves as source material for researchers and professionals in planning, architecture, landscape architecture and related fields. It is of significance for academics and post-graduate students who are interested in planning in the Nordic countries and who want to draw on their experiences in planning for sustainability. Furthermore, it could serve as reading material for post-graduate courses on sustainability and planning, particularly in the Nordic countries.

Sigríður Kristjánsdóttir



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Part I

Setting the scene



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1 Introduction

The planning pyramid

Sigríður Kristjánsdóttir

The argument for Nordic Experiences of Sustainable Planning: Policy and Practice

The aim of this book is to explore how the notion of sustainability has shaped planning research and practice in the Nordic countries in recent years. By introducing the notion of ‘sustainable planning policy and practice’ through a main focus on the actual settings and practices of local and regional planning activities, it is the intention to facilitate a discussion on the current state of planning for a more sustainable future. Are we, for instance, experiencing a paradigm shift in planning research and practice with regard to sustainability? Or is the sustainability discourse leading us into an impasse in planning.

Nordic countries

The five Nordic countries are Denmark, Finland, Iceland, Norway and Sweden, including their associated territories (Greenland, the Faroe Islands and the Åland Islands). Together they cover 3.4 million km². The Nordic countries generally have a mild climate compared to other countries that share the same latitudes, thanks to the Gulf Stream, which brings warm ocean currents from the tip of Florida. The Nordic countries form a geographical and cultural region in northern Europe and the North Atlantic, and share a common Viking heritage.

Sustainability

The term ‘sustainable development’ implies that economic activities, i.e. the production and consumption of goods and services as well as investment in capital, housing and infrastructure, need not deplete natural resources or degrade the environment. In 1987 the United Nations World Commission on Environment and Development (WCED) set forth the most widely used definition of the concept: ‘Sustainable development is development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs’ (WCED 1987). This definition

attempts to weave together various combinations of societal values referred to as the three 'E's (environment, economy and equity), originally set forth by the WCED.

Environment: Planning for sustainability considers both the quality of local ecological resources and human health, as well as the regional and global impacts of local activities.

Economy: Sustainable approaches to development recognize that the world's growing population requires efficient use of resources while ensuring their continuous availability in order to meet growing demand.

Equity: Often referred to as social equity, this element of sustainability considers fairness in the distribution of resources and aims to reduce social and intergenerational inequality for improving conditions for all.

In a way planning is guided by the need to address current issues. At times these coincide with elements of sustainability. The concern for sustainability has been important in shaping planning research and practice in the Nordic countries in recent years. Recent research volumes of these and related issues include *Green Oslo* (2012), *Planning and Sustainable Urban Development in Sweden* (2013), *Sustainable Stockholm* (2013) and *New Approaches to Urban Planning* (2013). Published a little earlier were the books *The Compact City: A Sustainable Urban Form?* (1996) and *Future Forms and Designs for Sustainable Cities* (2005), which both focus particularly on urban density and sustainability.

Planning

The purpose of planning is to guide society through changes such that everyone will benefit. Planning is therefore a tool to help municipalities steer through change. Planning policy has to be carried out in cooperation with local inhabitants, who contribute to the process as important creators and reviewers. A good plan uses the ideas of local inhabitants and lays the foundation for a neighbourhood in which they choose to settle.

Planning is about land use and urban development. It deals with the technical and political process involved in decision-making on land use, preservation and use of the environment, and the protection of public welfare. It also deals with the development and design of the environment, adapting it for the needs of the people –designing the urban landscape and transportation systems, communication networks and utilities. In this way planning affects all areas of our daily lives. Successful planning is an essential ingredient in general wellbeing.

Land is a scarce resource which has to be treated with respect. Planners specialize in the coordination of results from various specialists and in conforming the views of different stakeholders when decisions are made on the future use of land and resources, e.g., when developing new neighbourhoods,

transportation systems or choosing the location for a large factory. When laying out such policies planners should strive for the wellbeing of the local inhabitants, and not only those living in the area at that moment but also those who will in the future. Planning reflects the emphasis in the society from which it appears. Looking at the planning identities of urban areas reveals the economic, technical and social parameters driving its development. With continuing growth comes increasing demand for better conditions, leading to new and better planning solutions.

The Nordic countries have a strong tradition of a centralized welfare system. Planning in the Nordic countries has its roots in this tradition, which originated out of concern about the health and wellbeing of citizens. As a result of this tradition, welfare and health – and later environmental preservation – resonate with the ideas of planning in the Nordic countries; as opposed to ideas of zoning, land-use planning and maximizing the value of land. These ideas have, however, in recent years been gaining in importance in the planning systems of the Nordic countries.

Planning pyramid: The ideology of the book

Planning is an interdisciplinary field that draws on theory, research and experience across a variety of fields. Sustainable planning policy stands on three pillars – environment, economy and equity. These three pillars can be quite difficult to balance.

When sustainability is implemented in a multidisciplinary field such as planning, the number of aspects multiplies, and conflicting perspectives need to be settled.

Plans need to take a balanced and holistic approach to guiding development towards sustainability. The planning pyramid is an attempt to demonstrate the complexity of contemporary planning. The cornerstones of the pyramid – nature, economy and government, and regulations – support the built environment which, in turn, is the creation of the plan while also forming the frame into which it must fit. The top of the pyramid highlights that it is necessary to think about planning in three dimensions so as to create the stage for society.

Nature

Nature provides the physical frame for planning. In 1967 McHarg wrote a book on the fundamentals of this subject, entitled *Design with Nature*. Planning should be carried out without degrading the natural environment. Land use and construction of the built environment should be in harmony with nature. Current and future generations must strive to achieve a decent standard of living for all people and live within the limits of the natural system. Natural hazards and mitigation are other considerations when preparing a plan (Kristjánsdóttir 2000).

Economy

Planning is often justified with reference to the government's duty to address market failure, i.e., when the private sector does not make use of land in the best interests of wider society (Berke *et al.* 2006). It is important to assess properly the benefit to people, and their opportunity cost, before making planning decisions (Boardman *et al.* 2011).

Planning also affects the market by steering the supply of suitable land for development.

Land use planning affects the development market by identifying land that is available or planned for development; by limiting the type, location timing and density of development that can take place; by programming the infrastructure to support development and allocating its cost between the public and private sectors; and by specifying the standards under which development proposals will be reviewed

(Berke *et al.* 2006, p. 19)

Nowadays, planning competition has increasingly become international, which encourages cross-border operations in engineering, architecture and construction. As Paul Krugman argues in his book *Geography and Trade* (1991) the location of production in space is a key issue both within and between nations.

Government and regulations

The law and regulations in each country set a frame within which planning has to be conducted. The issue of planning and building permits are government decisions which are based on the legal system. Planning programmes and policies are carried out at different levels: international, national, regional and local. Planning and building law are detailed in regulations.

Built environment

Decisions made in a two-dimensional plan form a three-dimensional environment. A plan is not simply a drawing or a map. It frames peoples' lives and thus shapes society. A plan is similar to a football pitch. A football pitch is a green field marked with lines. The lines have specific meanings related to the rules of the game. Thus they provide a frame for the game of football. If there were no lines on the field it would simply be a field with green grass. Plans are similar. They have markings which indicate what can be done, and where; how the land can be used; what to build; where to lay streets and paths; and where to locate the recreational areas of the future. The markings in the planning documents become a frame for the daily lives of citizens. The building mass, and the intermittent spaces between, create a stage on which

people act out their daily lives. If all goes well a spirit of the place – *genius loci* – is created. The built environment changes along with technological progress, as discussed by Vance (1990) in *The Continuing City: Urban Morphology in Western Civilization*.

Urban morphology is a branch of Urban Studies that deals with the form and structure of a settlement. It studies complex and intricate types of form, and how different factors set their mark upon the whole city. In this way urban morphology examines the configuration of the urban form as well as the relationship between the individual forms and the city as a whole – from the formative years of the city, and through all its subsequent transformations (Kristjánsson 2007). Larkham and Conzen (2014) look into how different factors have shaped the urban form by studying cases from different parts of the world.

Liveability

Liveability involves human interaction with the physical environment in planning practice, focusing on designing and building places that fit the needs and aspirations of residents. Cities have often been the cradle of innovation and culture (Hall 1998). Liveability expands land-use planning to include urban design and thus combines planning with the fields of architecture and landscape architecture (Kasprisin and Pettinari 1995).

Liveability focuses on people, and deals with the configuration of land use, the integration of transportation systems, as well as the organization of buildings and the spaces between them – though not with the architectural design of individual buildings. This relates back to the early days of modern planning, such as Ebenezer Howard's *Garden Cities of To-morrow* (1902). Planning with respect to the nature and climate, particularly with respect to sunlight, is extremely important in the far north where the sun rises low in the sky and the days are short in winter.

As in many other fields, fads in planning come and go and then return after travelling full circle. Nowadays, human wellbeing is at the centre of planning – which strives for improved health and improved quality of life. Examples of recent research in this area are found in *The Routledge Handbook of Planning for Health and Well-Being* (Barton et al. 2015).

Summary

In a multidisciplinary field such as planning, it is helpful to be able to zoom in on specific issues. However, it is always important to keep the whole picture in mind.

The need for planning has never been greater than in the complex societies of today. Municipalities are facing problems that appear in multifarious ways, often creating conflict along the way.

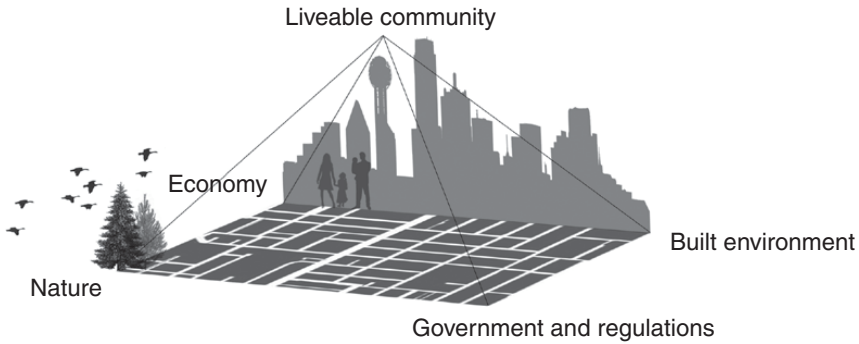


Figure 1.1 The planning pyramid – liveable community thrives in a built environment that rests on nature, economy, and government and regulations

The organization of the book

For more than a decade, planning in the Nordic countries has been aimed at sustainability. The purpose of this book is to demonstrate how this aim has been achieved through planning policy and practice, in a series of chapters that focus on what lessons can be learned from the Nordic experience – as well as looking at possible future developments.

Part I: Setting the scene

The book is divided into six parts. Its structure draws on the planning pyramid (Figure 1.1). Part I is made up of two chapters. The first is this introduction; and the second discusses planning's responses to the neo-liberal rollercoaster, written by Tore Sager. He clarifies the concepts of sustainability and resilience and discusses their connection to planning and neo-liberalism. The chapter reflects on the tension between neo-liberal ideals and the ideals of planning. It is maintained that good planning should move us towards more sustainable cities, but that neo-liberal thinking, and the cycles of economic boom and bust, make this a challenge. During boom years, planning has more freedom to attend to the environment and sustainability issues; but during recession it is forced to put economic growth at the forefront, with sustainability taking a back seat. The chapter focuses on the relationship between sustainability and resilience, and how they are affected by recessions in a neo-liberal setting. Tore suggests that to improve resilience of the economy and the environment, planning should be used as a tool for *controlling* the economic cycle, rather than adapting to it.

Part II: Nature and economy

The second section is made up of three chapters, two dealing with planning in connection with the natural environment, and one dealing with planning and the building cycle. In Chapter 3, Kristjánsdóttir discusses the meaning of the word ‘landscape’ in the Icelandic language and discusses methods for analysing the physical frame of the land in light of its suitability for planning.

Knowledge about nature is the basis for environmental planning. This is the topic of Chapter 4, written by Nyseth and Viken, which covers how to gain knowledge, the different types of knowledge, and how to use it in planning. This chapter underlines the challenges faced by the sparsely populated regions in the northern periphery of the planet when it comes to protecting the environment. With few local inhabitants, relatively large numbers of seasonal workers, and against the backdrop of vast landscapes, it is vital to gather as much local knowledge as possible in areas that are being encroached upon, by – for example – the tourism and mining industries. In the presence of uncertainty about environmental impact, the precautionary principle is often applied. The authors argue, however, that this can move the risk to other areas where the impact can be even more uncertain; and that a better approach would be institutionalization of a process whereby the various stakeholders pool their knowledge. The chapter uses the east coast of the Norwegian island of Svalbard as an example of how co-management of the ecosystem might be achieved with the cooperation of various stakeholders.

In Chapter 5 – which focuses on housing cycles, housing markets and housing finance – Eliasson discusses the building cycle with the aid of a simple economic model. Rising house prices are a result of a lagged response in the supply of housing to increased demand. Speeding up the planning process is a viable policy through which to counteract the housing cycle, but it is only appropriate when the rise in demand for housing is permanent. In the face of a *temporary* rise in housing demand, increased supply will inevitably involve a waste of resources. It is therefore important that planning responds differently to permanent and transitory demand shocks. Examples of transitory shocks include changes in financial conditions; but also the temporary migration of workers depending on economic conditions. It is suggested that a better policy response to such changes would be to reduce demand through application of the various financial incentives that have recently come to the fore under the banner of macro-prudential policy.

Part III: Government and regulations

In Part III, five authors, one from each of the five Nordic countries – Norway, Denmark, Sweden, Iceland and Finland – discuss the development of the

planning system in their respective countries, current affairs in planning, and the current structure of the system. Falleth and Nordahl describe the evolution of the planning system in Norway over the past 50 years as moving from national to local, from autocracy to democracy, and from public planning to market-based planning. This chapter gives an excellent review of the literature on planning theory and relates the changes in planning practice to changes in planning theory. A key evolution was in 1985 when local government gained the right to adopt both municipal plans and zoning plans. At the same time, private actors were given the right to submit zoning plans for political approval. Developers have been in contact with bureaucrats and it can be argued that this type of bottom-up, market-led planning, provides a frame for municipal planning.

The chapter on the Danish planning system, written by Hansen, emphasizes planning culture. He discusses the emphasis since the early years of the century on simplifying the planning system in order to increase transparency and efficiency. This has led to a shift away from the centralized emphasis of public planning on equal development. It has been substituted by a local focus by municipalities on facilitating economic growth and job creation.

In Chapter 8, Nilsson gives an overview of the chronology of the main steps in the adaptation of planning and building regulations, and formal environmental protection, in Sweden. The overview extends over the period from the 1800s to the present day.

In the chapter on the Icelandic planning system and its evolution, Kristjánsdóttir draws attention to three milestones of sustainability, which gradually materialized at different points in time in the system. First is the emphasis on health, welfare and equity, which evolved early in the twentieth century when planning appeared in Iceland with a focus on improving health conditions. In the latter part of the century, following an increase in motorized traffic, an increase in car dependence, and against a backdrop of urban sprawl, the focus shifted to environmental issues and the need to contain pollution. Finally, following the recent turmoil in international financial markets, the focus is again shifting. Now the emphasis is turning towards the negative effects of too-rapid development, driven by financial conditions.

Planning in Finland has mostly been the responsibility of architects rather than planners. In the chapter on the efficiency and sustainability of planning in Finland, Mattila emphasizes four types of sustainability: ecological, economic, social and cultural. Mattila points out that recently there has been movement away from the traditional Nordic welfare state type of public planning – which had come to be seen as too slow and bureaucratic, and slowing down economic growth. Deregulation, or privatization of regulation, followed. Competition between municipalities then led to ‘growth everywhere’ and increased urban sprawl to the detriment of ecological sustainability.

Part IV: Built environment

Part IV, the built environment, contains three chapters which consider how the built environment actually comes into being. Each of the chapters deals with cases of planning competition. The first chapter, written by Kittang, discusses the goals set out for the Brøset neighbourhood in Trondheim, Norway, and to what extent they were achieved in the actual planning and construction of the neighbourhood. It was planned with the ambitious goal of becoming a model of a sustainable neighbourhood for future development in Norway and other countries. The author asks whether the Brøset project has succeeded in providing important lessons for sustainable urban development, with low greenhouse gas emissions and with an urban fabric that facilitates sustainable transportation. The planning documents that were produced during the process are examined; from the original planning programme, through to the parallel commissioning process, its subsequent evaluation, and the final zoning plan decision.

The second chapter in the section looks at the result of a planning competition for a new neighbourhood in Reykjavík, Iceland, and studies the changes later made to the site plan. The frame plan which won the competition was designed around ideas of sustainability. The plan was adapted and changed, according to the legislation, as it went through the planning process. Important aspects of the resulting legal plan were different from the plan presented in the planning competition, particularly in light of its distinguishing attributes. For instance, the emphasis on the density and livelihood of the neighbourhood was sacrificed. During the construction phase the site plans were speedily changed according to the wishes of the builders, which fluctuated in sync with the business cycle.

The third chapter in this section, written by Rönn, looks at the experience of developer competitions in Sweden by looking at three examples. Developer competitions are now more common in Sweden than architectural planning competitions. Participation in the developer competitions is by invitation and the winner is awarded the right to purchase and develop the site. Sustainability is treated in different ways in the invitations of the organizers. The must-demands are general and based on the law as it relates to public procurement. Evaluation criteria are experience-based and reflect professional merits for the competition. Rönn concludes that developer competitions attract participation by only a few, established, development companies. Such competitions transfer power in the municipalities from planning offices to property departments. They also shift design responsibility away from architects and instead to developers or building contractors.

Part V: Liveable community

Part V relates to liveable communities. The three chapters discuss particular strategies for improving sustainability in cities, and their implementation.

Each chapter approaches this from its own angle. The first chapter in this part discusses the drive to decrease the number of municipalities in Finland in recent years, and analyses the effects on municipal finances. Municipalities were encouraged to merge via a proposal that they have a minimum population of 20,000. The authors observe a pattern in which municipalities situated relatively close to large centres opted out; while others, further away, saw the benefits in merging with a large central municipality. This behaviour is consistent with their observations concerning the development of the finances, revenues and expenditure of the municipalities when viewed in relation to their distance from a large urban centre. Their argument is that there are costs stemming from the geographic blindness of politicians who focus on economies of scale in the provision of public goods while ignoring the geographic effects of distance, suburbs, and the links between businesses and commuting.

The second chapter in this part, authored by Ottelin *et al.*, provides a meta-analysis of carbon footprints and the rebound effects of reduced driving levels or switching to energy-efficient vehicles. It shows that rebound effects are generally substantial where the money saved by lower driving mileages is used on other consumption goods and, in particular, other modes of travel – such as more frequent use of air travel. The study also provides a comparison of the effects of driving less versus giving up one's private car. Interestingly, it concludes that the rebound effects of giving up a car altogether results in a larger carbon footprint than choosing to drive less. The chapter suggests that the lifestyles linked with densification and car-less inner city living may result in more long distance travelling by air – which leaves a larger carbon footprint than driving less and switching to energy-efficient cars.

Lissandrello concludes this part with a chapter on how planners work. This is achieved by providing examples from two Nordic cities of planners who were working on improving sustainability in their cities. Focusing on planners' own stories of innovation in urban planning and mobility in two Scandinavian cities (Aarhus, Denmark, and Trondheim, Norway), this article explores how planning is dynamically renewed, revised and consolidated over time by the individual actions of public planners. The chapter offers an interpretation of the performative qualities of planners by adapting Butler's feminist critical theory on performativity to the urban and mobility planning context. The chapter concludes with a reflection on how understanding planning under an analytic of performativity makes it possible to see urban planning for its transformative capacities of reshaping, re-enacting and re-experiencing the future within a set of meanings and forms of legitimization.

Part VI: Future scenarios

The concluding part of the book contains two chapters. The first looks to the future, where Lilius looks at the current master plans for the Nordic capitals

and asks if they will achieve sustainability by the year 2030. The plans have many common features, and she wonders if the authorities in these cities are perhaps looking at each other and trying to adopt each other's policies. She contemplates the importance of achieving sustainability at the city level at a time when many households maintain a summer house, or a second home, and might want to retreat there as the city becomes denser. Lilius poses the question of whether people want to live in a dense city and become more local in their lifestyles simply because the city plans for it. What comes first, the plan or the people?

In the final chapter, Kristjánsdóttir summarizes and looks for a common thread in the development of the planning systems in the Nordic countries. The chapter discusses the planning systems in the Nordic countries and relates this to the issue of sustainability.

Conclusions

Throughout this book the authors employ their direct research and experiences in dealing with sustainability in the Nordic countries. The chapters are organized in relation to the planning pyramid.

The empirically based research reported in the contributions to this book provide a current overview of ways in which the Nordic countries are addressing sustainability in planning.

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