

# Preface

This book is the result of a collaboration between two geographers – one an environmental geographer from a developed country, the other a physical and human geographer from a developing country. We share an interest in human–environment interactions that goes beyond the academic. We now find ourselves working in the same university where we are able to use geospatial tools to explore those human–environment interactions and the often deleterious effects that they have on not just the environment but on the human population themselves. We have assembled a talented collection of authors with expertise in many areas of human–environment interactions. Some of them are our own students, both past and present, and others are collaborators from a range of universities and institutes across the globe.

Humankind has been living in cities since the Chalcolithic era, but it was not until relatively modern times that cities began to approach the size and dominance that they currently possess. Two related phenomena occurred in the late twentieth century. The first was the expansion of existing cities to a new class of urban settlement known as the megacity, and the second is the fact that there are now more people living in the world's cities than in its rural areas. A primary driving factor for this has been rural–urban migration, which has been observed all over the world as the economies of countries transform from an agrarian base to an industrial base and in some “first world” countries to post-industrial service-based economies. The move to an urban lifestyle has always had positive and negative effects on those making that move. For many, it initially results in overcrowded conditions that are deleterious to health, but modern medicine is beginning to counteract that. The upshot of this is that rural–urban migrants frequently continue the high birth rate practices of their rural predecessors for at least a generation or two, without the moderating effect of higher infant mortality. This, in turn, fuels the population growth of the cities and megacities that these migrants inhabit.

South Asia, the home of some of the world's first cities in the Indus valley civilisation, is now the home of several megacities and a number of large conurbations that are on the threshold of becoming megacities. Unlike the megacities of the developed world, where population growth has slowed in recent years,

the megacities of South Asia are bustling places where the demand for accommodation far outstrips the efforts of the civic administration either to control the supply of land for housing or to provide adequate infrastructure to service the burgeoning population. There are many reasons for this, and they are shared by the megacities of other developing countries. They include a basic lack of resources, a culture that sees no harm in taking bureaucratic shortcuts and poorly resourced planning and enforcement agencies whose underpaid staff may be prey to unscrupulous property developers. Regrettably, many of these developers care more about a rapid profit now than they do about the future environmental living conditions of their “clients”.

Dhaka, the capital of Bangladesh, is a rapidly developing megacity. Whilst it has its own particular characteristics, it is a good example of the organic, often chaotic, development of megacities the world over. We hope that this book will be of interest to those who care about the future of our planet and its people and the way in which we accommodate our population as the whole world seeks to emulate the lifestyle of the so-called developed world.

We, finally, would like to thank all our authors who have taken their time to write their contributions in such a manner that they are widely accessible to readers of all levels, especially those who are seeking to understand the basic methodological and quantitative methods used.

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Dhaka Megacity

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