

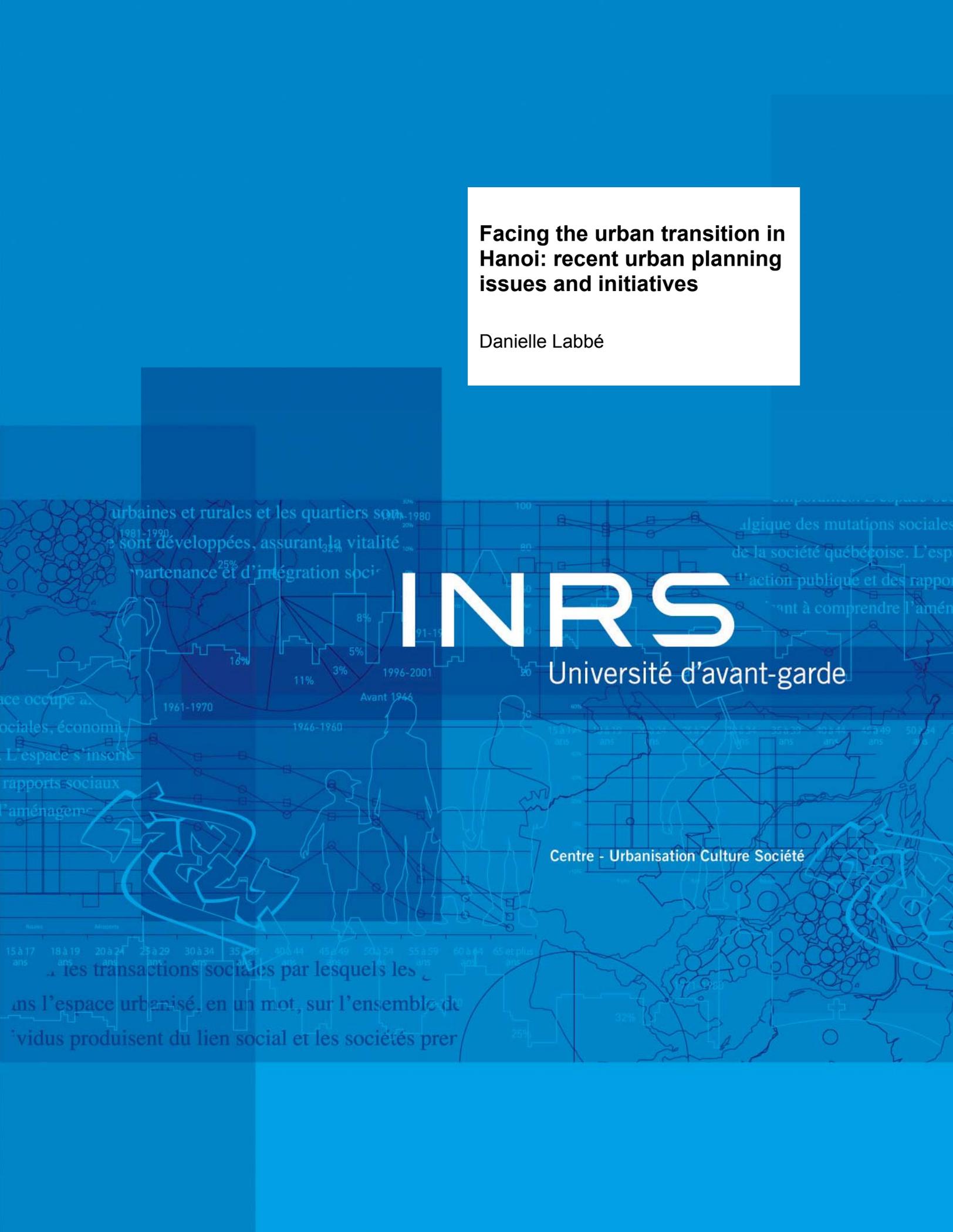
Facing the urban transition in Hanoi: recent urban planning issues and initiatives

Danielle Labbé

INRS

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Hanoi: recent urban planning
issues and initiatives**

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Urban Transition in Vietnam: Issues and Prospects

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Building on two cases studies on the periphery of Hanoi (*An Khanh*, a commune recently transformed by planned urbanization policies, and *Tan Trieu*, which has been urbanized more spontaneously and for a longer period of time), this research conducted in partnership with the Sustainable Development Institute of the North (SDIN) at the *Vietnamese Academy of Social Sciences* (VASS) seeks to better understand how various forms of urbanization (planned, spontaneous) have impacted the life of people and their relationship with state authorities in a centralized and communist political system that is undergoing deep transformation due to economic liberalization.

Indeed, processes of urbanization in Vietnam take various forms that can broadly be divided into two categories: communities that have experienced planned urbanization versus communities that have experienced spontaneous urbanization (creating what would commonly be called slums). While spontaneous urbanization remains important on the periphery of large cities such as Ho Chi Minh or Hanoi, since the years 2000, the central state has embarked on large-scale urbanization planning with the goal of fostering economic development. This has meant central decisions to transform agricultural land into “urban” land (industrial development, new housing for migrant workers) and revitalization in slum areas (displacing slum dwellers into public housing complex). Whether urbanization was planned or not, these state policies have immense consequences for local communities (formerly farmers, or formerly slum dwellers, or new migrant workers arriving from other areas of Vietnam). In all cases, people have to cope with numerous challenges: 1) finding new means of living (employment, access to food, new household time management habits and patterns of mobility), 2) competition for scarce resources between rural and urban households (changing land tenure), 3) adapting to rapidly changing (and thus confusing) land use patterns, infrastructure development and regulatory frameworks.

Periurban spaces, defined as spaces of transition, are fruitful sites for understanding Vietnam’s socioeconomic and political transformations. Serving as a bridge between the traditional rural milieu that has historically dominated the economic and sociocultural life of the country and an urban milieu that is (re)constructing its identity, this periurban interface enables us to qualitatively explore urban integration. Periurban spaces are undergoing intense changes at the level of land tenure regulation, economic structures

(industrialization, foreign investment, infrastructure development, private business), demographic structures (densification, fertility rates, migration), and spatial organization (architecture, urban sprawl, housing, etc.).

Our research questions are the following:

1. What are the coping strategies developed by residents to address the economic, social and cultural transformations brought by urbanization?
 - a. employment strategies
 - b. access to food and consumption patterns
 - c. management of family life (gender role, mobility patterns)
 - d. conflict mediation and relations with newcomers to the communities
2. How has the evolution of the central state's attitude towards urbanization (from a negative to a positive perception) influenced people's perception of these deep transformations? How do perceptions compare to the reality of differentiated degrees of poverty and wealth?
3. Were there new civil society organizations formed as a result of these transformations? To what extent are these new organizations participating in the regulating and planning processes? How and to what extent is local urban development taken in charge by these new organizations?
4. How are populations and authorities coping with environmental problems and solutions, in relation to poverty issues?

This research is a pilot for a larger collaborative project on how local populations in Vietnam cope with the multiplicity of transformations and uncertainties associated with periurbanization and extreme climate events. In the context of institutional and political redefinition in Vietnam, this project aims to better understand how periurban local people and authorities cope with multiple rapid transformations affecting their everyday lives. More specifically, it looks at two interrelated major forces of change: urbanization (with a focus on land conversion) and extreme climate events (which may be aggravated by global climate change). These two forces bring much uncertainty, yet we hypothesize that local people develop many micro-adaptations strategies, which we hope to uncover. In order to do so, this project offers a **social scientific approach** to a debate currently dominated by climate sciences and urban planning. To this end, this investigation is centered on concepts of risk perception and social vulnerability. This will allow an exploration of how the urban transition and climate change combine to

affect local living conditions (livelihood strategies, consumption and mobility patterns) of periurban household as well as the reconfiguration of actors involved in policy-making and decision-making processes. Five cities of different size, located in four of Vietnam's lowland socioeconomic regions, have been pre-selected as case study sites. In each city specific communes will be identified where both quantitative and qualitative data will be collected. The study expects to uncover localized micro-adaptation strategies devised by the populations and authorities caught up in the maelstrom of periurban and climatic transformations. Ultimately, these adaptation strategies will inform policy recommendations aimed at strengthening local resilience and mitigation capacities. These recommendations will be developed and disseminated through a partnership with the Association of Cities of Vietnam (ACVN), and interactions with local authorities and the government of Vietnam (through the intermediary of the Vietnam Academy of Social Sciences).

We wish to thank the Social Sciences and Humanities Research Council of Canada, the ministère des Relations internationales (Québec), and the scientific direction of the INRS for their financial support, as well as our Vietnamese colleagues at SDIN-VASS.

Facing the urban transition in Hanoi: recent urban planning issues and initiatives

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1. INTRODUCTION

Vietnam is currently experiencing one of the most intensive urban transitions in the world. Over the next 25 years, its cities and towns are expected to grow at an average rate of 6% per year, increasing the national share of Vietnam's urban population from one-third to one-half (MoC 2009). This shift from a rural to an urban society is closely associated with socio-economic reforms instituted in the 1980s that progressively liberalized the economy and relaxed the grip of the state on population movements and activities. These reforms fostered a swift transition to an urban society through combined processes of rural-urban migration, occupational shifts away from agriculture, the physical expansion of existing urban areas, and the creation of new cities and towns in densely-settled rural communes.

As the nation's capital city and second largest agglomeration after Ho Chi Minh City, Hanoi is one of the key sites of this urban transition. Vietnamese political leaders acknowledge the fact that the growth of Hanoi and other cities is crucial to the shift from agriculture to manufacturing and higher order services as well as to improve the material well-being of the national population. At the same time, the rapid growth of populations and activities in and around cities puts intense pressure on local authorities to keep pace with rising demands for infrastructure, social services, housing, environmental controls, and public amenities. Therefore, while there is consensus on the potential benefits of urbanization, concerns are also raised by local and foreign academics, professionals, and decision-makers about the importance of anticipating and addressing problems ensuing from the urbanization process.

The mechanisms by which the people and authorities of Hanoi plan to ensure the sustainable growth and development of the city's territory, society, and space are still very much in the making. While many problems remain to be addressed, recent years have seen the emergence of urban development initiatives that aim to mitigate the negative impacts of urbanization. These are the focus of this report. This survey is organized as follows: The first section provides a contextual background on Hanoi, sketching a portrait of its history, territory, population, and economy. The subsequent sections describe problems and initiatives taken in five urban planning areas: heritage preservation, public space, transportation, housing production, and peri-urban

integration. Existing conditions in each of the areas along with the mechanisms proposed by planning authorities and other stakeholders to cope with emerging issues are presented. The topics of each section are illustrated with case studies. The report concludes by identifying areas in need of further research.

2. HANOI PORTRAIT: HISTORY, TERRITORY, POPULATION, AND ECONOMY

Hanoi is situated in the head of Vietnam's Red River delta. The city-province is bordered by the provinces of Thai Nguyen to the north, Bac Ninh and Hung Yen to the east, Vinh Phuc to the south, and Phu Tho and Hoa Binh to the west (see Fig. 2.1). Most of Hanoi's area lies within the low floodplain of the Red River, historically a site of intensive wet rice agriculture. The remaining area is part of Soc Son District (to the north), which is somewhat mountainous and hilly.

While Hanoi has been occupied by human populations for more than 2,000 years, the city's origins officially date back to 1010, when the emperor Ly Thai To built a citadel and established the capital of his empire on the right bank of the Red River. Progressively, a small trade area developed next to the imperial city that is now referred to as the "Old Quarter" (see Fig. 2.2). Throughout the following eight centuries, the city developed slowly due to state control of trade and a succession of tumultuous wars between competing dynasties. By the time the French settled in the city, in 1874, Hanoi was a relatively small agglomeration of less than 100,000 people. Socio-spatially, it consisted of a combination of three distinct spaces: a citadel, a merchant quarter, and an agglomeration of rural villages surrounded by a dike (Logan 2000; Papin 2001).

Hanoi was the capital of French Indochina from 1902 to 1953, during which time it remained a modest city both in size and population, never exceeding 400,000 inhabitants (Wright 1991). Yet French planners greatly transformed the appearance and functioning of the city. Up to the end of the 19th century, colonial authorities expanded the city area toward the south and west. There, they developed a new area with broad avenues which, organized in a grid system and flanked by spacious villas and gardens, is now referred to as the "Colonial Quarter." The French also developed major infrastructures and facilities, including the Long Bien Bridge, a railway and train station, a post office, and an opera house (see Fig. 2.3).

BẢN ĐỒ HÀNH CHÍNH THÀNH PHỐ HÀ NỘI



Figure 2.1 Map of the Hanoi city-province

Source: VIAP

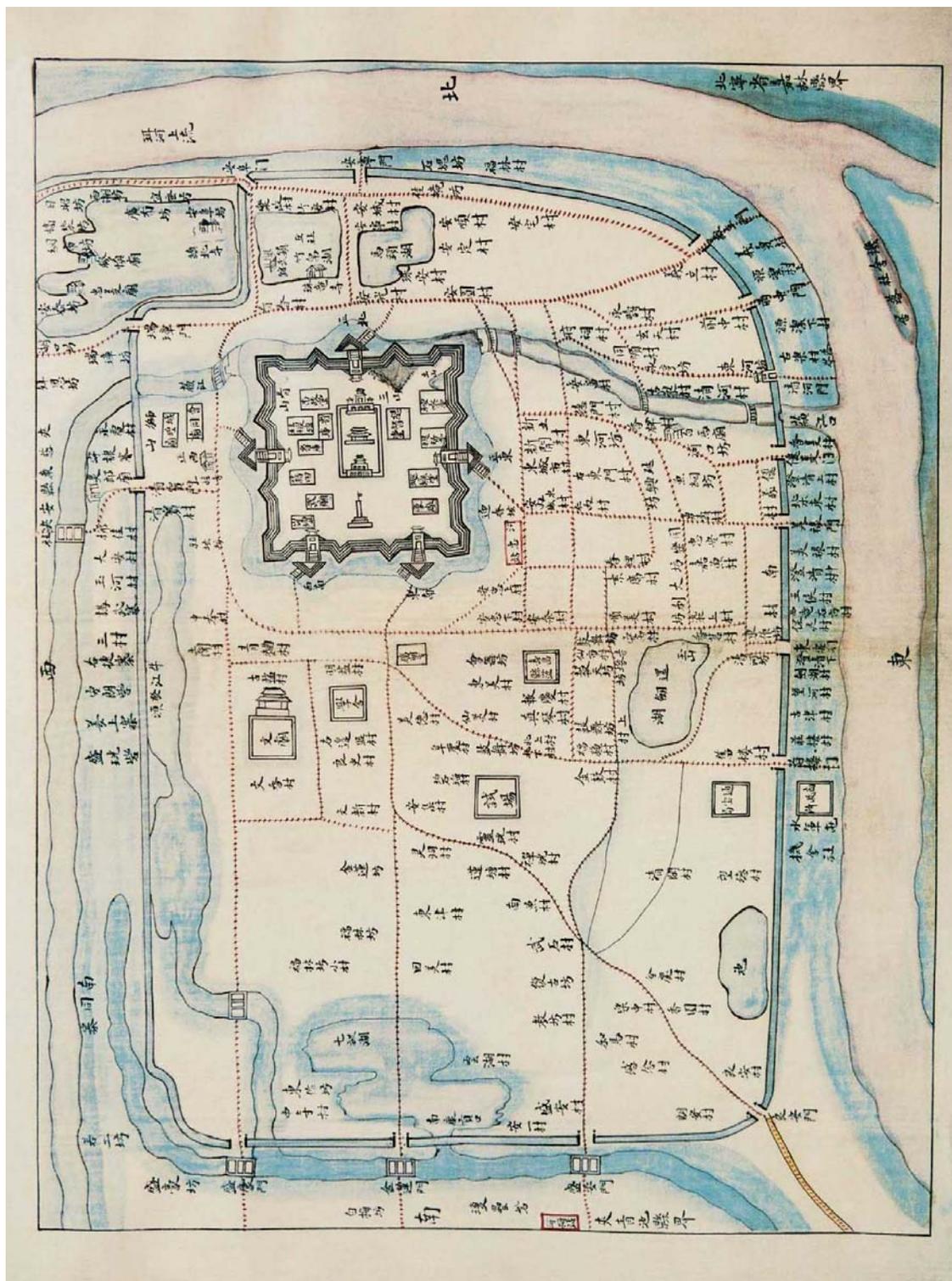


Figure 2.2 Map of pre-colonial Hanoi
 Source: Ngô Đức Thọ et al. 2002



Figure 2.3 Hanoi's opera house was built during the first decade of the 20th century.

Source: NXBTT 2006: p.39

In 1946, the Democratic Republic of Vietnam (DRV) took power and declared Hanoi its capital. The newly independent nation went through the First Indochina War (1945-1954), followed by the Vietnam War (1962-1975). The government policy of de-urbanization or dispersal of the population and industries away from Hanoi during the wars limited both the physical and demographic growth of the city (Nguyễn Duc Nhuan 1978). Nevertheless, by 1965, Hanoi's total population had reached one million. The city was not to exceed this figure for several decades, for two main reasons: continued control on rural to urban migration, and economic hardship of the 1980s (Thrift and Forbes 1986). In the early 1990s, after the launch of a set of policies known as the "Doi Moi" (renovation) policies, urban population increased substantially. From then on, the city's population grew at an annual rate of approximately 3% to reach 3.2 million by 2007. Most of this new population consisted of rural migrants from surrounding provinces, with natural growth playing only a minor role in the population increase (Ledent 2002; Gubry et al. 2002).

Hanoi's administrative boundaries were redrawn several times throughout the 20th century. Among the major changes was the large territorial expansion of the province in 1978 to encompass over 3,000 km² (Rossi and Pham Van Cu 2002: 314-17). The boundaries of the province were then redrawn in 1991 around a smaller territory of 900 km². Thereafter, most of the administrative territorial changes consisted of attributing an urban status to parts of rural districts peripheral to the city (Quertamp 2003: 86-93).

In 2008, the administrative boundaries of Hanoi were once again extended to include the neighbouring province of Ha Tay as well as a handful of districts and communes that formerly belonged to the provinces of Vinh Phuc and Hoa Binh. Upon completion of this project, the territory of the capital reached 3,300 km² (3.6 times the size of the previous area). In doing so, Hanoi absorbed wide areas of agricultural land that now constitute two-thirds of its territory. This expansion also implied a doubling of the official population of the capital city, namely, from 3.2 to 6.4 million inhabitants. A large part of this new population is classified as "rural" (3.7 million people, against 2.5 million classified as "urban") (HSO 2009). In terms of population, Hanoi still comes just after HCMC (6.8 million) but the city is now far ahead of Hải Phòng (1.8 million) and Đà Nẵng (822,000). Although encompassing less densely settled areas, Hanoi's population density has now reached an average of 1,926 persons per km² (HSO 2009).

The official objectives of the expansion were manifold. The enlargement served to reaffirm the status of the capital city of Vietnam both at the national and regional scale. The so-called "New Hanoi" is expected to become a centre of politics, education, science, economics, and international exchanges. The new territory is expected to contribute to the economic and functional development of the city by encouraging investment, including official development aid (ODA) and foreign direct investment (FDI), and by allowing the expansion and modernization of the region's infrastructure network. The new territory is also expected to help accommodate the city's demographic growth and distribute the population outside of the overcrowded urban core (VET 2008). The exact intentions for the future of the New Hanoi will be revealed with the release of the Master Plan for 2030 and Vision for 2050. These two documents have been in preparation since 2009 by a consortium of three planning and architectural firms from South Korea (JICA and Posco) and the United States (Perkins Eastman) working in collaboration with the Vietnam Institute of Architecture and Planning (VIAP).

Hanoi's economy is growing steadily. The city's GDP expanded three-fold between 2000 and 2008¹ (HSO 2009: 65). While Hanoi is only home to 7% of Vietnam's population, it contributes 12.5% of the national GDP.² Although the city-province encompasses a significant area of agricultural hinterland, Hanoi's contribution to the GDP from the primary sector is rather low. Hanoi's gross output of industry is also relatively low, representing only 13% of the country's total output (compared to 25% for HCMC) in 2008. Hanoi is indeed a less industrialized region than HCMC. As can be expected from a capital city, the proportion of the population working in the government sector is relatively high, representing 9% of the province's workforce (compared to 6% in HCMC and 2% in Hai Phong) (HSO 2009). A growing part of Hanoi's economic growth also comes from FDI. In 2008, Hanoi received close to US\$18.8 billion in FDI, accounting for 7% of the total investment in Vietnam (HSO 2009: 222).

The current intentions of the national and municipal authorities are geared to develop a knowledge-based urban economy. This is manifest in the decision to build a large high-technology satellite city 30 kilometres west of the city. Upon completion, the so-called "Lang Hoa-Lac Hi-tech City" will accommodate major universities and high-quality industrial production and human resources (Nguyen Thai Huyen 2009). The creation of this "high-tech city" is part of a larger regional development approach that fosters the creation of a multi-polar urban region consisting of autonomous satellite cities dispersed around the existing agglomeration.

¹ Based on current prices. However, this period also saw an important rise in inflation.

² While substantial, this contribution is only half of that of Ho Chi Minh City.

3. URBAN AND ARCHITECTURAL HERITAGE PROTECTION

The protection of architectural heritage in central Hanoi has a long history. The roots of this movement can be traced back to the beginning of the 20th century when the French started to identify and catalogue remarkable monuments on the Indochinese peninsula (Nishimura 1997). While concerns for the built heritage faded during wartimes and throughout the subsidy era³, it revived again in the early 1990s. Following the re-opening of Vietnam's borders to foreign visitors, Hanoi revealed to the rest of the world one of the best preserved cities of Southeast Asia.

The city's architectural and urban heritage combines exceptional monuments and compounds such as pagodas, temples, the citadel, and government buildings scattered through the urban fabric. Hanoi also displays exceptional urban ensembles. The core of the city consists of a traditional merchant quarter dating back to feudal times. This area is characterized by an organic network of narrow streets lined with traditional shophouses (see Fig. 3.1) (Pham Dinh Việt 1997).



Figure 3.1 Traditional shophouse in the Old Quarter
Source: D. Labbé, 2004

³ Vietnamese use the expression “thoi bao cap”—literally translated as “subsidy era”—to refer to the period stretching from 1954 to 1986 during which the state subsidized a large part of socio-economic activities.

South of the Old Quarter is the Colonial Quarter, an area planned under the French that functioned as the administrative and commercial centre of Indochina. As mentioned, this area is characterized by a regular street grid of broad avenues, lined with trees and flanked by luxurious villas (see Fig. 3.2). Hanoi's urban fabric further includes a myriad of erstwhile rural villages now engulfed into the urban fabric. The city is also characterized by a unique natural environment with numerous rivers and lakes, tree-lined streets, and parks.



Figure 3.2 Colonial villa

Source: D. Labbé, 2005

This built and natural heritage experienced considerable transformations over time, either due to war destruction, poor maintenance during less affluent periods, transformations by users due to changes in needs and tastes, and demolition to make way for larger and more profitable buildings (UNCHS 2002: 4-42). According to many experts, Hanoi's built heritage is at risk of disappearing if nothing is done to curb degradation, inappropriate renovations, and rapid demolitions (Logan 1994; Maclaren 1996; Parenteau and Champagne 1994; Nguyễn Quang and Kammeir 1997; Terunobu et al. 1997). Throughout the 1990s and 2000s, this prognosis catalyzed an onslaught of preservation-oriented development projects. During this period, more than twenty development projects, funded by ten different organizations, addressed the issue of preserving the built heritage of the Old Quarter and the Colonial Quarter.

These preservation projects set out with a relatively narrow focus on architectural preservation but progressively embraced wider concerns about tradition, including the preservation of immaterial heritages such as traditional economic activities and lifestyles. Nevertheless, on the whole these heritage preservation projects tended to focus on a small number of symbolic monuments and on the preservation of the Old Quarter and the Colonial Quarter to the detriment of other components of Hanoi's built and natural landscape. Hence, many of the lakes that once characterized the city have been filled. The rivers and canals that were once a part of what gave the city a unique character are also being progressively buried underground (a decision often justified by high pollution levels) (Shibayama et al. 2008). At the same time, the former villages that are being integrated into the city space are also witnessing the disappearance of their ancient gates, central ponds, ancient houses, and other cultural and architectural landmarks.

Box 3.1: Thang Long Imperial Citadel

In June 2006, the government of Vietnam submitted an application to the UNESCO for the classification of the Thang Long Imperial Citadel complex as a World Heritage site. The citadel is a highly significant place in Vietnam's national history. The complex covers approximately 50 hectares. It corresponds to the areas of the Forbidden City and Imperial Citadel which were first built during pre-colonial times. While most of the original buildings were destroyed during wars, many relics remain underground that have been unearthed by archaeologists, including many architectural vestiges and artefacts from the period during which Vietnam was under Chinese domination and from more recent dynasties. All over the site, cultural layers appear and are testimonies of continual cultural and physical changes during a period of over 13 centuries. The Vietnamese authorities are hoping to get the Thang Long Imperial Citadel listed as one of the UNESCO World Heritage site in time for the millennial of Hanoi, in 2010.

Sources: <http://whc.unesco.org/>

4. PUBLIC SPACE UPGRADE AND PROVISION

Hanoi is recognized as one of the most overcrowded cities in the world. In 2008, human densities in the urban districts reached an average of 272 persons per hectare and up to 404 persons per hectare in the historic core (compared to 370 persons per hectare in Hong Kong, 86 in Paris, and 62 in London) (ABD 2006). Such human densities put enormous pressure on the city to provide common spaces for people to engage in social interactions, exercise, get away from the traffic and pollution, and enjoy environments other than the exceptionally cramped quarters of their homes (UNCHS 2002).

However, Hanoi can hardly meet the demand of its citizens for public space. Recreational areas, in particular, are insufficient to serve the urban population. Urban parks account for only 0.3% of the city's territory and represent less than 1m² per person. These figures are far below the urban park area offered by other cities in the region. Bangkok, to take only one example, has nearly twice as much urban park area than Hanoi (1.8 m²/per capita, see Thaiutsa et al. 2008).



Figure 4.1 The new Hang Trong Park offers very few recreational options to users.

Source: D. Labbé, 2009

Existing parks are unevenly distributed across the city. They concentrate in the urban core with approximately 1.5 m² of park space per capita in the four central districts, while the urban peripheral districts offer only 0.05 m² of park space per capita. The parks in Hanoi lack accessibility, in particular for young people and the elderly. About half of Hanoi's residents do not have a park within walking distance or with easy access from their house (HAIDEP 2005). Moreover, existing public spaces, even large ones such as Reunification Park, often offer few recreational options to users. Instead, urban public spaces in Hanoi are generally designed with an emphasis on ornamental flowerbeds and geometrically patterned alleyways. Such areas can hardly meet the population's growing demand for spaces that foster socializing and participation in recreational activities (see Fig. 4.1).

The lack of formally designated and easily accessible urban public parks is informally compensated by the extensive use of the sidewalk and street spaces in the inner city. The sidewalks of Hanoi are the site of an eclectic array of activities spanning domestic, social, recreational, and commercial uses (see Drummond 2000 for a discussion). Such practices often result in conflicts between public uses and the private appropriation of public space (see Fig. 4.2).



Figure 4.2 Multiple uses of sidewalk space compete with each other

Source: D. Labbé, 2009

The rampant personal and commercial use of public space is manifested by the plethora of street vendors, sidewalks being taken over by shop owners for private use (cooking and eating), and children's use of streets as their public playground, even to the extent of competing with busy traffic in narrow lanes. This is compounded by the rapid growth of the use of motorcycles, invariably parked on sidewalks and forcing pedestrians to walk in the streets among vehicles. In recent years, municipal authorities have

attempted to regulate sidewalk use more strictly, prohibiting mobile vending and controlling some of the private appropriation of public space by shop owners (Kurfürst 2009; Koh 2008). Yet, even the most regulated sidewalks of Hanoi cannot replace safe and accessible public parks where residents can get away from traffic and air pollution, enjoy larger playgrounds, and make use of quality community meeting spaces.



Figure 4.3 Sidewalk spaces are extensively used in the new urban areas of Hanoi.

Source: D. Labbé, 2009

Vietnamese authorities recognize the importance of public spaces in the development of a sustainable and people-friendly city. This is reflected in national planning standards for parks and green spaces issued by the Ministry of Construction which theoretically has to ensure the provision of green areas in Hanoi. According to existing regulations, developers must design new residential areas with approximately 3 to 4 m² per capita of parks and gardens in order to get development approvals and buildings permits. In reality, however, the criteria on minimum park areas are not fully applied and the responsible authorities do not impose fines on developers who fail to meet prescribed standards. As a result, many older public parks in the inner city are in need of improvement, with sidewalks in the new residential areas at the periphery often serving as the only accessible public space available to residents (see Fig. 4.3).

Box 4.1: Thuong Dinh Ward's Playground Upgrade

Thuong Dinh ward is one of Hanoi's poorest urban wards as it is home to a large proportion of migrants and adults with unstable jobs and low income. Like in other poor inner-city neighbourhoods, the lack of green and open spaces has become a chronic problem in this community. In 2006, a team consisting of Vietnamese researchers, foreign academics, and a local NGO attempted to remedy this situation through an innovative community-driven public space improvement project.

The project targeted a small playground which was highly degraded because of low maintenance and improper use. The project aimed at turning this space into a safe and accessible community park. It involved local people at all phases, from design to post-construction maintenance. Early on in the process, ideas were gathered from local people who asked for raising the site above floodwaters, access to outdoor seating, for a new playground, and for a community-information posting board. A student-architect voluntarily provided design ideas which served as the basis for community discussions. A ward staff from the local People's Committee helped produce technical drawings, cost estimation, and negotiated the construction price with the contractor (also a local resident). Many people, including migrants living nearby to the playground, made cash contribution to the project.

While ward authorities first worried about the community's capacities, they finally agreed to delegate most of the tasks associated with the upgrade initiative to local people. A Management Committee consisting of both members of the community and authorities was established for supervising the construction. Upgrading work was carried out within two weeks and provided employment for about ten local unemployed people. At the end of 2008, the new playground was handed over from the ward to the community which has since then been responsible for its maintenance and appropriate use.

Since the upgrade, local residents started to plant trees and flowers in and around the new playground and cleaning work is now carried out every Sunday morning under the leadership of a young volunteer.

The ward leaders believe that this experience can be widely replicated across the city and local people believe that it led to a tightening of the local community's relations. Although at a very small scale, this authority-community collaborative project demonstrates that urban poor in Vietnam have ability to contribute ideas, financing, labour, and to manage infrastructure projects.

Source: Nguyen Thi Hien 2009

5. URBAN TRANSPORTATION: FROM PRIVATE MOTORBIKES TO RAPID MASS TRANSIT

Urbanization in Hanoi is accompanied by rapid motorization, much of which due to recent wealth accumulation during the liberalization of the private economic sector. The resulting urban traffic is nearly unparalleled by that of other cities in the world. The Vietnamese capital is indeed characterized by the lowest use of public transportation and the highest proportion of private transportation of all Asian capitals.⁴

The rapid motorization of Hanoi is characterized by a predominance of motorcycles. Since its first introduction to Vietnam during the subsidy era, this small four-stroke, two-wheel vehicle has become a symbol of high personal mobility, an asset value, and one of the most convenient means of transportation in a city the urban fabric of which is dominated by narrow alleys (JBIC 1999). Motorbike ownership in Hanoi is reaching high rates compared to income levels, and this despite high import-taxes (70% to 100%) and registration fees. Four households out of five in Hanoi own a motorbike and two out of five own at least two (AFD 2008).



Figure 5.1 Hanoi's streets look like a continuous stream of motorcycles.

Source: J.-F. Légaré-Tremblay, 2009

The rise of motorbike ownership has turned a city where, in 1990, over 80% of trips were made by bicycles to one where, in 2005, nearly 65% of the 6.3 million daily journeys were made on motorbikes (ABD 2006). From 1995 to 2005, motorbike trips

⁴ By 1999, the modal share of buses in Hanoi accounted for less than 6% while it accounted for 70% in Manila in 1996, above 50% in Jakarta in 1985, and above 45% in Bangkok in 1995 (JBIC 1999: II).

have multiplied by six. The constant increase in motorcycle ownership is now also becoming paralleled by a growing number of cars. In 2005, only 2% of households in Hanoi owned cars, representing less than 4% of the city's modal share. But between 2004 and 2007, new vehicle registrations in Hanoi increased at a two-digit rate, reaching 20% over the last two years (Hieu Nguyen Ngoc 2009). In the meantime, the number of non-motorized vehicles—especially bicycles—on the streets of Hanoi is plummeting (see Fig. 5.1 and Fig. 5.2).

The already overloaded and weak traffic infrastructure of Hanoi is bearing increasing pressure. The road network represents less than 7% of the land area (compared to about 15% in most European cities and 11% in China's large cities). An expansion of the road system is restricted by the severely high cost of resettlement, which constitutes over 80% of a given project budget. Over the last decade, travel speed and travel time in downtown Hanoi have worsened not only due to traffic congestion but also to longer travel distances. The latter is fostered by a master plan prescribing the decentralization of spatial structures, which further exacerbates the need for transportation linkages between the city centre and the suburbs (ABD 2006).



Figure 5.2 Traffic jams are increasingly common in Hanoi.

Source: J.-F. Légaré-Tremblay, 2009

Changes in the mix of traffic, slow progress in roads development, undisciplined driving styles, and lax enforcement of traffic laws increasingly worsen the traffic in the city. The ever-growing traffic congestion has many negative effects: exclusion of

vulnerable populations (children, the elderly or disabled, poor populations without vehicles, etc.), rise in transport costs, urban productivity declines, as well as increasing greenhouse gas emissions, air pollution, noise, and accidents (ISTED 2006).

Public transportation once played a significant role in the capital's urban transportation system, namely, in the early 1980s, when the modal share of buses accounted for 25 to 30%. However, the number of routes and the frequency of the service then decreased in the 1990s, when subsidies for state-owned enterprises began to get curtailed (JBIC 1999: III). Public transportation nearly collapsed entirely in the late 1980s when ridership dropped from about 40 million per year to almost nothing (HAIDEP 2007: 8-7). For more than ten years, Hanoi thus seemed to be establishing itself as a non-public transit city. To counter this direction, the national government recently launched a new policy that places public transportation as a priority over other urban concerns. Among its ambitious targets for Hanoi is the stipulation that 25 to 30% of trips in 2010 and 50 to 60% in 2020 must be carried by public transportation⁵ (HAIDEP 2007: 8-7).



Figure 5.3 Passenger waiting for the bus in Hanoi

Source: C. Musil, 2009

In 2002, the city of Hanoi, for its part, launched a policy aimed at reviving the nearly extinct bus system. New bus routes were established, the vehicle fleet was expanded, and bus shelters and passenger information schemes were introduced (see Fig. 5.3). The resurgence of the public bus system since 2002 succeeded beyond expectations. In

⁵ Public transit is not the sole focus of the Vietnamese authorities in terms of transportation infrastructure development with ambitious programs for highway construction also underway.

2003, ridership was more than three times as high as during the peak year of the 1980s (HAIDEP 2007). Yet, despite a spectacular 20-fold increase in bus ridership from 1.2 million monthly trips in 2001 to over 24 million monthly trips in 2006, public transport still only accounts for only 10% of total trips (ABD 2006).

In light of the fact that the above-mentioned traffic congestion limits the attractiveness and impacts of a public bus system, new rapid mass transit (RMT) projects operating outside the regular road network are currently on the drawing boards. Following recent recommendations from the Japanese International Cooperation Agency (JICA), two bus rapid transit (BRT) lines are awaiting funding approvals by the World Bank. In parallel, two rail-based projects are also in the making: a 12.5 kilometre east-west light rail transit line partly financed by France and a new metro line linking downtown Hanoi to its international airport (15 kilometres to the north), financed by the Japan Bank for International Cooperation (JBIC) (see Fig. 5.4) (ISTED 2006). These two projects were originally expected to be completed for the Hanoi's 2010 millennium celebrations but have suffered significant delays.



Figure 5.4 Artist's rendering of a light-rail transit station in Hanoi

Source: www.archipel-asia.com

International experience shows that large BRT and rail-based transportation systems take a long time to put in place. In the meantime, much can be done to improve the current transportation system (see, for instance, Box 5.1). According to the Asian Development Bank (2006), there is a need to complement planned improvements in public transport with a comprehensive mobility management strategy that includes car and motorcycle parking fees, improved enforcement, i.e., collection, of vehicle registration fees for motorcycles, and taxes on gasoline (currently among the world's lowest). Moreover, more attention is needed to increase the efficiency and safety of the current stream of traffic. Traffic management is still nascent and Hanoi residents have been slow to accept many basic traffic management techniques. Continued engagement is needed to build capacity and to prioritize the need for safety and order over unfettered

mobility. There is also a need to enhance the capacities of the institutions responsible for land-use development, and to integrate their missions with other transport and infrastructure plans.

Box 5.1: Long Bien Bus Interchange

In 2009, the City of Hanoi inaugurated a new bus interchange on the edge of the city densest and busiest neighbourhood. This project was developed through a decentralized cooperation project between the city of Hanoi and the Région Île-de-France with funding assistance from the Ecotrans project. This new bus interchange demonstrates how small-scale but finely designed interventions can substantially improve transportation quality in Hanoi.

The new bus interchange is efficiently handling a large volume of bus flow and has considerably improved inter-modality in the area. The new facility can handle nearly 300 buses per hour at rush hour and over 3,500 passengers a day. It includes waiting platforms for users, stopping zones and dedicated bus right-of-way lanes, nearby taxi and park-and-drive facilities for motorbikes and a quick connection to the Long Bien train station, providing inter-regional rail links. Altogether, these improvements have significantly facilitated the redistribution of passenger flows into the central and historic quarters of the capital and to suburban areas and eased conflicts between users.

In addition to its functional success, the bus interchange has become an architectural landmark in the area, innovatively integrating component of the urban landscape in which it was inserted. It is also providing a public space of quality. Achievements of perhaps deeper meaning are the genuine recovery of this space by the citizens of Hanoi, appreciative of their vernacular heritage, and the reinforcement of the links between the people one of the historic symbols of their city: Long Bien Bridge (see fig. 5.5).

Source: www.imv-hanoi.com



Figure 5.5 New buses interchange at the foot of the Long Bien Bridge

Source: C. Musil, 2009

6. HOUSING PROVISION

Urban housing is a perennial problem in Hanoi. The issue can be traced back to the subsidy era when the urban housing sector was allocated a meagre part of state resources. This was compounded by a subsequent 30 years of wartime economy and the destruction of buildings by bombing (1945-1975) (Papin 2001; Thrift and Forbes 1986). By the late 1980s, the acute lack of housing space manifested in population densities reaching 30,000 persons/km² in the inner city (Gubry et al. 2008). Inevitably, this under-investment in housing by a centralized state that kept promising a rapidly growing urban population the “right to shelter” became a source of popular discontent (Dao Thi Thu Huong 1999).

The adoption of the Doi Moi policies greatly influenced housing production in Hanoi. Major changes included the withdrawal of public housing subsidies and the encouragement of an emerging private housing development sector along with traditional self-help housing production (Trịnh Duy Luân 1995; Thuc Huy Trinh 2005). In the 1990s, the progressive removal of state control over the housing and construction market conflated with newly-formed private capital to foster a construction boom mainly driven by informal self-help housing practices (see Fig. 6.1) (Everestz 2000; Parenteau 1997).



Figure 6.1 Houses produced by individual households in the 1990s

Source: O. Jacques, 2009

By 2000, over 70% of the residential floor area built in Hanoi was produced by private households using their own funds (Geertman 2007). Most of this housing production took place without construction permits (Koh 2006). Moreover, by the early 2000s, as much as 90% of the houses in Hanoi did not have proper housing ownership and land use-rights certificates⁶ (Luong Thi Hong Hanh 2001).

This self-help housing production contributed to decrease unsustainable housing densities in the inner city. Between 2000 and 2008, average housing areas per capita went up from 4.7 m² to 7m² (VNS 2009; JBIC 1999). Yet, self-help housing has systematically been appraised by local experts as a sub-optimal answer to the housing shortage in Hanoi. One of the main problems is that a large proportion of the dwellings so produced do not qualify for basic neighbourhood infrastructures, including environmental utilities and services such as clean water and electricity. The spatial landscape ensuing from this informal urbanization is also considered as disorderly and unsuitable for the capital city of a modern, developed, and civilized Vietnamese nation (PHC 2000; Nguyen Xuan Mai 2001; Luu Trọng Hải 1995).



Figure 6.2 “The Manor,” a new urban area on the outskirts of Hanoi

Source: D. Labbé, 2005

The proportion of housing space produced by individual households started to decrease in the early 2000s. By 2008, private households produced just over half of Hanoi’s urban housing (HSO 2009: 215). This situation was closely tied to the changing

⁶ In recent years, local authorities have tightened their control over construction activities and legal requirements and informal housing construction has substantially decreased in most urban districts.

dynamic of Hanoi's housing production during the same period. By the late 1990s, central and municipal authorities developed an urban development model referred to as "new urban areas" (*khu do thi moi*, hereafter NUA). NUAs are large-scale integrated developments displaying standardized urban forms and consumer-oriented architecture (Douglass and Huang 2007; Waibel 2006). They are characterized by the use of a so-called "synchronous planning approach" where the infrastructure system and public facilities are developed concurrently to mixed-use residential constructions (see Fig. 6.2).

Over the last decade, over a hundred NUAs have been built around Hanoi, some covering only a few hectares and others covering large expanses of territory and constituting self-contained satellite towns. These projects are, for the most part, invested by domestic enterprises, including a large number of former state-owned construction companies. Yet, in recent years, an increasing number of projects have involved foreign capital originating from the East and Southeast Asian regions (especially Korea, Taiwan, and Singapore) (see Box 6.1).

Underpinning the original NUA initiative is the following idea: by supplying good quality housing affordable for all strata of the urban population and located in planned "modern" environments, informal urbanization practices would be progressively marginalized and eventually superseded by a state-guided vision of the urban (Pandolfi 2001). Unfortunately, since its implementation, this initiative has not managed to meet the needs of the ever-growing number of households for dwellings in the capital city. Demand continues to outstrip the supply of housing in NUAs, which in turn fosters speculation. Most NUA villas and apartments are sold off-plan and then re-sold many times prior to completion.

Shortage in housing supply has pushed prices up in a succession of so-called land and housing fever periods (Hoang Thi Lich 1999). From 1991 to 1992, prices increased tenfold and from 2001 to 2004, shot up 500% (Hoang Thanh 2007). Hanoi's land and housing prices are still among the highest in the region. In 2007, a house in the old city was selling for about US\$4500-5000 per square metre, an apartment in a mid-range high-rise building at the periphery for about US\$1000-1500 per square metre, and an apartment in a lower-range resettlement building for about US\$800 per square metre (Tien Manh 2007).

Box. 6.1 Splendoria

Splendoria is a massive 264 hectares urban development on the western side of Hanoi. The US\$2.57 billion zone is invested and built by a joint-venture consisting of the state-run Vietnam Construction Import-Export Corporation (Vinaconex) and South Korean steel-maker subsidiary POSCO Engineering & Construction (POSCO E&C). The first phase of the project, expected to be completed by 2012, will offer 1,000 villas and apartments, office blocks, retail centers and public infrastructures. The project is marketed as an “eco-friendly” and “international environment” with “*fresh air, dreaming spaces created by artificial lake, flowers gardens, green areas*” where residents will have a “*one-stop life*” with “*high-class international schools, and other functional spaces such as entertainment, culture, office, shopping center*” available on site. The project is also strongly oriented towards security and global aspiration: “*at Splendoria, you can meet the model of New York economic center, fashion and culture center of Paris, tourist and entertainment center as Dubai, Sydney...symbol of global life.*” The project is expected to be completed in 2020 (see fig. 6.3).

Source: VNA 2009; www.ankhanhjvc.com



Figure 6.3 Bird's eye artist rendering of Splendoria

Source: www.ankhanhjvc.com

In the current housing market, households with enough capital or good connections to the state are seizing opportunities to improve their lives, constructing many buildings themselves and taking advantage of regulatory loopholes in order to speculate in the land market. But others, looking for affordable housing, are finding that the cost of even modest housing has become much steeper. The poor, in particular, encounter great difficulties to access housing (see Box 6.2).

Box 6.2: Out of Reach

“Twenty-nine year-old Nguyen Thu Nga can only dream of owning an apartment in Ha Noi. Nga and her husband are currently renting a small apartment in a five-storey building in Thanh Xuan District. They earn a total of VND 5 million (\$294) per month, barely enough to get by with their small child in the city: *“I’ve heard a lot about the Government’s project to build cheap houses for low-income earners; however, it’s still out of my budget,”* said Nga. Nga and her family have no monthly savings to purchase a 50 square meters apartment in the capital, which would run about VND 300 million (\$17,600).

Source: VNS 2009

In 2009, Hanoi municipal authorities addressed this situation by announcing plans to build 15,500 apartments totalling 1.5 million square metres to shelter students, workers in industrial zones, and low-income Hanoi residents by 2015 (Quynh Nga 2009). However, the federal government is not planning to subsidize housing directly, and financial mechanisms to entice private developers to supply affordable housing are yet to be defined. This is no small challenge. In a market where land values are on the rise and with a private sector oriented toward more affluent households, one can hardly expect the market to supply affordable housing. As noted in a recent interview by the chairman of the Vietnam Construction Association, Pham Si Liem: “Investors need to turn a profit. One square metre of commercial space can be sold from VND10-20 million (US\$600-1,200), while it’s between VND 6-7 million (\$350-410) for social housing. Who would want to build these homes?” In the current market system, seeking the highest possible returns on land development, the poor are still left to fend for themselves.

7. PERI-URBAN INTEGRATION

For four decades Hanoi remained confined within limited space. Under the influence of a planned economy, lack of foreign investment, and moderate population growth, the city was restricted to its four central administrative districts (1950-1990). The city's built fabric only started to overflow into suburban districts in the early 1990s. And, at the turn of the century, urban expansion really began to accelerate with the relaxation of state control over rural-to-urban land-use conversions. Since then, thousands of hectares of agricultural land and hundreds of erstwhile rural communities have been engulfed into the city's physical and functional space (see Fig. 7.1). The scope and speed of these changes pose an enormous challenge for local populations who face intensive socio-spatial transformations as well as for planning authorities who are struggling to cope with new demands for urban infrastructures, services, land uses, and environmental controls.



Figure 7.1 A new high-rise building overlooks a traditional building in a peri-urban village under urbanization.

Source: D. Labbé, 2009

Between the 1990s and the early 2000s, the urban expansion of the city into its rural hinterland took place mostly informally. The process was largely driven by in-situ urbanization of pre-existing settlements at the rural-urban interface of the city. Peri-urban populations and territories were predisposed to such change. For hundreds of years, the livelihood of people living outside of the city was based on rice cultivation

and market gardening with crafts and semi-industrial activities such as basket weaving, metallurgy, textiles, and food processing. This combination of activities required a large workforce and fostered very high population densities: 1,200 inhabitants/km² on average, up to as much as 15,000 inhabitants per km² in residential areas (Fanchette 2009: 4).



Figure 7.2 Typical peri-urban landscape juxtaposing aquaculture and new houses

Source: D. Labbé, 2005

The potential dynamism of peri-urban populations was relatively contained throughout the subsidy era; however, in the early 1990s, the opening of the economy, the demise of collective agriculture, and the redistribution of agricultural land provided the impetus for rapid local transformations toward more urban land-uses and employment structures. This created opportunities as well as needs for additional income in rural areas. Individual households and whole villages started to intensify agriculture, to expand and develop local handicraft and industrial occupations, and to diversify their livelihood strategies by sending household members to work in factories or downtown (see Fig. 7.2) (DiGregorio 2009: 2).

Between 1994 and 1999, populations in the rural communes belonging to the city-province of Hanoi grew by 65% (from 400,000 to over 625,000 people). Redundant rural workers and manpower idle during the low season began to commute to urban and suburban areas to work as traders or as industrial or casual workers on a permanent or semi-permanent basis (Tana 1996). New wealth from the intensification of agricultural and from craft activities and urban remittances impacted the physical space of villages where families began replacing traditional rural homes with multi-story urban houses. Altogether, rising population densities, intensified agriculture, small craft industry, the

provision of new local services, new rural incomes from remittances, and a housing construction boom converged to spur an endogenous process of urbanization at the village level that paralleled the urban growth process as it occurs elsewhere (DiGregorio et al. 2003).

Throughout the 1990s, conversion of agricultural land to urban uses took place informally at a very small scale. The formal rural-to-urban conversion of large tracts of agricultural land was tightly restricted by the state, requiring approval from the Ministry of Natural Resources. At the beginning of the 2000s, the state relaxed its grasp on the management of these spaces and, in 2006, decentralized the power to approve and convert land uses down to provincial and municipal governments. This fuelled a real estate market boom all over Hanoi's peri-urban territories.



Figure 7.3 High-rise buildings under construction on the western edge of Hanoi
Source: D. Labbé, 2005

The physical and functional expansion of the city further accelerated under state-backed plans to move the inner-city population to newly created suburbs and to provide the metropolitan region with new and improved infrastructures (see Fig. 7.3). In 2008, the newly expanded province of Hanoi totalled 772 new residential, leisure, and industrial projects, occupying 145,700 hectares of land, of which only 25,000 are located within the old boundaries of the city (VET 2008).

The peri-urban communes surrounding Hanoi form a mosaic of demographic, economic, and socio-cultural situations. The combination of in-situ urbanization and urban growth into such a diverse territory has a wide-range of impacts on local populations. These include: environmental and health problems associated with higher levels of water, land, and air pollution due to new or intensified industrial activities; a

sharp rise in land values, limiting the possibility of the peri-urban population to afford spaces for residential purposes or for the development of economic activities; social stresses on rural communities suddenly receiving large numbers of rural migrants and suburbanizing dwellers; rise in what the Vietnamese people refer to as “social evils” such as drugs and prostitution, crime, and gambling (Rossi and Pham Van Cu 2002; Quertamp 2003).

One of the core issues associated with urban growth relates to the revoking of agricultural land-use rights in favour of urban uses. The appropriation of agricultural areas for industrialization and urbanization purposes has accelerated rapidly in recent years. By 2006, the Red River Delta economic region was leading the way in the country with 4.4% of its agricultural land having been converted to urban and industrial land (Coulthart et al. 2006). By the end of 2010, Hanoi is expected to have converted 11,000 hectares of land (mostly annual cropland in rural areas) to industrial and urban land. It is estimated that these conversions will result in the loss of agriculture-related work of some 150,000 farmers, a figure likely to increase dramatically following the integration of the former province of Ha Tay within the boundary of the national capital’s city-province.

As in China (Guo 2001), the appropriation of agricultural land-use rights in Vietnam has become a major source of conflicts between different parts of society including villagers, public and private land developers, communal, district, and provincial authorities as well as the central state. As noted by Kerkvliet (2006: 297) “the grievances expressed by villagers are often entangled in corruption cases, local officials’ abuses, lack of consultation, lack of forewarning about land-use right revoking or resettlement, and questions about how land use compensation should be carried out, who has the power to determine land values, and who should participate in the decision-making related to land uses.”

Popular discontent is partly responsible for the successive revisions of the legislative framework surrounding the process of revoking land-use rights (Kim 2009). Compensation rules and the methods for calculating the compensations are evolving rapidly and the packages offered by the state and by developers are getting more diverse and generous. The latest change in the legislation on land clearance took place in August 2009 with the issuance of *Decree 69*, which aims to better protect high-productivity cropland from development, ensure earlier forewarnings of affected populations in case of land recovery, and diversify the compensation packages offered to displaced populations. However, to what extent this new legislation will mitigate land clearance issues around Hanoi remains to be seen.

Box. 7.1 Food or Fun?

Nguyen Thi Phai is living in a makeshift tent amid piles of dirt, bulldozers and excavators. Like more than 1,000 people from Hanoi's Chuong My district, her family was moved into a shantytown in 2007, when their former agricultural and residential land –including the gardens, fish ponds, and tea plantation that used to be their livelihoods– was reclaimed to build a golf course. Since the project started, Phai and her husband are jobless. Moreover they have used most of the compensation money that they have received for their 0.6 hectares of land to cover for daily expenditures.

The land of Le Quoc Duoc was also taken for the golf course. Compensation rates were too low, he says, and he doesn't know how he will feed his small children now that he is landless. Duoc says that the social fabric of the village has changed a lot after land was taken and that an increasing number of children in the area have become addicted to drugs. He blames the idle life and the quick influx of compensation cash two years ago for these problems. *“Before, we lived a poor life, but it was a stable one and the heads of the households worked. Now, we are living off the one-time compensation handout and have no employment opportunities.”* The Hanoi City government policy is to offer vocational training and create jobs for residents displaced by projects. But the policy came into effect in July 2008, meaning the Chuong My families –and others displaced prior to that date– don't benefit from it.

The case of families like that of Phai and Duoc in Chuong My District is not unique. Since 2006, 166 golf projects were approved nationwide. Experts and economists have warned the authorities that many of these are disguised tactics used by investors to appropriate large tracts of land that will later be developed into non-recreational projects.

During a National Assembly session, in June 2008, the Deputy Minister of Planning and Investment proposed that development licences for nearly a third of these golf projects be cancelled. He argued that using farmland for golf courses poses serious social and food security threats.

Following a request from the Prime Minister, planning authorities revised all applications for golf courses on Hanoi's territory and announced a plan to revoke the licenses of 10 golf course projects located in populous areas where displaced families would find it difficult to find jobs. Yet, the Van Son Lake golf course is excluded from the list of projects that could be revoked, as are several others on the ground that it is *“located on poor farming lands, mountainous terrain or flooded areas.”*

Source: Thanh Nhien 2009; Tran Thai 2008



Figure 7.4 A new golf course in the region of Hanoi.

Source: www.hanoigolfclub.vn

8. CONCLUSION AND RESEARCH AVENUES

A historical shift from an agrarian to an urban society is now well underway in Vietnam in general and in the region of Hanoi in particular. This transition engenders transformations of society, the economy, and political institutions as well as the built and natural environment in both rural regions and urban centres. Past policies to limit urbanization through attempts to control population mobility have now given way to an understanding of urbanization as an irreversible process that can contribute positively to development through increases in material and economic welfare, industrialization, and economic efficiency linked to the agglomeration economies of cities.

Yet benefits from urbanization come at a price. As shown in this report, the problems associated with urbanization in Hanoi are multi-faceted and call for innovative solutions that are appropriate to the specific context and resources of this region. Over the last two decades, some urban planning issues have received considerable attention from researchers, government agencies, and development funding institutions. The most salient among these are transportation and telecommunication infrastructure development, public transit, and heritage preservation (as discussed in sections 3 and 5 of this report). Yet, many issues associated with the urban transition in Vietnam still call for more research and concerted action. By way of conclusion, the following briefly outlines five areas which deserve to be put on future research agendas.

8.1 Integrating Rural and Urban Regional Planning

Even with the fast pace of urbanization, the region of Hanoi will continue to have a very large rural population for many decades. Currently, rural regions in Vietnam continue to increase in population numbers, though by about half the amount than those accruing in cities (UNCHS 2002: 5-1). A key question in this regard is how to overcome the traditional dichotomy between rural and urban planning, allowing to take advantage of rural-urban linkages such to benefit both rural and urban areas. This entails exploring how the national space-economy—including agriculture and craft activities—can be best integrated into the international economy. It also requires improving the regional distribution of the benefits of urbanization. Particularly important, in this regard, are the peri-urban areas (discussed in Section 7), which absorb most of the urban population increase but which are poorly prepared to cope with the high urban management demands arising in them.

8.2 Updating Urban Management Mechanisms

Effective urban planning for the city-province of Hanoi is currently at a crossroads and must take into account the considerable changes brought about by two decades of transitioning toward a market economy. These include: heightened integration into more volatile regional and global economic systems; unrestrained investment in real estate; the need for major cities to be competitive in an international context; and loosened control on private economic activities and population movements.

The current planning mechanisms, inherited from the command-and-control era, are obsolete. As it stands, the Ministry of Construction in charge of planning for the region of Hanoi formulates master plans, the ideal or final outcome of which is to be achieved a targeted two decades later. This top-down process places strong emphasis on the spatial arrangement of buildings in a very prescriptive way without providing for mechanisms that can ensure that such investment is in the public interest. As noted by Wilson (2009), construction master plans have a number of other weaknesses: They give little consideration to the visual, social, or economic suitability of proposed developments, in addition to being poorly aligned with national or regional development goals.⁷ In all, the master plan approach is rather static, i.e., it can hardly adjust to changing conditions or guide the market forces that increasingly dictate the shape, form, and intensity of urban development in the capital city region.

What is required is a fresh look at different planning mechanisms with the aim of crafting an approach that will best help Hanoi authorities manage the development of the city-region, ensuring that it can harness opportunities and mitigate emerging problems in timely and context-sensitive manners. This includes thinking about what kind of institutional engineering is needed to implement a new planning approach, what financial and human resources are required, and how professionals in the built environment and urban administration fields must be trained in order to ensure the ongoing implementation of such an approach.

8.3 Improving Urban Land Development Planning and Coordination

At the city scale, there is a need to explore ways to improve the coordination of investments across sectors in the urban space to ensure appropriate land development patterns, including the conservation of open and public spaces as well as historically important sites and elements of the built environment (as discussed in sections 3 and 4).

⁷ This is partly due to compartmentalization into various poorly coordinated sectors. For instance, construction planning does not include land-use planning or management as this is the responsibility of the Ministry of Natural Resources and Environment.

As exemplified in the case of the Thuong Dinh Ward's Playground Upgrade (Box 4.1), it might be fruitful to explore ways to improve coordination, not only among government agencies but also with communities, in order to ensure an appropriate fit with their varied situations. In the current context of steep increases in urban land values, providing serviced land for low-income family housing is a challenge that needs to be tackled in the short-term. Beyond the issue of coordination, it is also necessary to think about how to involve society and private enterprises in scaling up the capacity to supply enough housing for the urban population of tomorrow.

8.4 Understanding and Dealing with Urban Poverty

Poverty is more and more present in urban contexts in Vietnam, and this shift is putting new issues on the agendas of urban planners. This raises several questions in particular: How can we improve the situation of unregistered migrants living in squatter and low-income settlements? What can households with members lacking formal education and marketable skills do to integrate into the urban economy? How is the degradation of the environment associated with the urbanization impacting the health of the poor? What are the current (and potential) roles of rural-urban linkages in the management of poverty by internal migrants? How can community efforts be better linked with state programs in environmental management, housing, education and training, and social services to improve the lives of the urban poor?

8.5 Getting Ready to Face Climate Change

Both scientific studies and interviews with local populations indicate that Vietnam experienced important weather changes over the last 40 years (Zink 2009). These are accompanied by an increase in natural disasters and extreme weather events. There is no firm evidence that recent weather changes which have taken place over the last few decades are the result of human-caused global warming (Oxfam 2009). However, the experience of dealing with extreme weather and natural disasters over the last few decades may well be a prelude to what Vietnam will face in the near future.

Vietnam is indeed among the world's top 10 countries that are the most vulnerable to climate change. Global weather conditions in Vietnam are expected to become both more extreme and unpredictable, inducing a variety of natural hazards across the country. A report by the World Bank ranks Vietnam first in terms of potential impact of climate change on population, GDP, urban extent, and wetland areas. The authors maintain that the consequences of climate change for Vietnam are "potentially catastrophic" (Dasgupta et al. 2007:44).

So far, climate policy in Vietnam is designed mainly for national scale application and for vulnerable populations in rural areas, with research by and large neglecting the effects and challenges of climate change in urbanized and urbanizing areas. Local media regularly cover problems caused by storms and floods in Vietnamese cities (e.g., health and sanitation issues, interruption of schooling, damage to buildings and infrastructure). At the same time, existing research provides little information on the scope of these problems and on coping mechanisms developed by the authorities and by local people. As discussed earlier, urban and peri-urban areas present unique characteristics and therefore call for more research in order to identify specific mitigation and adaptation strategies adapted to their population distributions and densities, economic activities, buildings, and infrastructures.

A recent report by the World Bank states that the most adverse impacts of climate change are likely to be in urban areas where people, resources, and infrastructures are concentrated (Prasad et al. 2009: xiv). Hanoi is particularly at risk in this regard as it is situated in a low-lying area near the mouth of a major and unpredictable river (the Red River). This places Hanoi at greater risk to current and projected climate hazards such as cyclones, high winds, floodings, coastal erosion and deposition, and sea-level rise (Gubry 2008).

At the technical level, much remains to be done in Hanoi in terms of identifying flood-safe areas and formulating policies to restrict the urban expansion of these zones. There is also a need to explore how buildings, physical protection, and design standards can be applied to ensure that floods and extreme events do not impair populations and strategic functions. This is particularly problematic in the case of spontaneous human settlements that often expand beyond state control in flood-prone zones surrounding cities. Another issue in need of more research is that of “climate refugees.” Climate change may well accelerate rural-to-urban migration in Vietnam, with rural households affected by natural hazards likely to migrate to urban agglomerations. In that case, how would Hanoi cope with a larger flow of rural migrants? There is also the need to more carefully assess the role played by natural systems within urban areas in providing protection and mitigation of flood events. These are only a few of the challenges that merit further research in order to help Vietnamese authorities and urban populations prepare for climate change

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