Chapter 2

Special Economic Zones and Economic Corridors

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ABSTRACT
Various reports show that special economic zones (SEZ) have become a prime catalyst for regional development in developing countries such as China and the ASEAN countries. The SEZ can be defined as a specific geographical region with economic laws that are more liberal than a country's typical economic laws. Many SEZs have characteristics of bonded zones, export processing zone (EPZ) or free trade zones and provide special incentives, including tax exemption or reduction to investors. The purpose of the paper is to enumerate the candidates for SEZ in Cambodia, Laos, Myanmar, and Vietnam (CLMV countries) according to four types: “metropolitan areas,” “ports and harbors,” “border areas” and “junctions or intersections.” The first two types are based on the experience of forerunning ASEAN countries and the latter two are based on the economic corridors of the Greater Mekong Subregion Economic Cooperation Program. The paper concludes by identifying locations for the questionnaire and flowchart approach-based surveys, and presenting country-specific strategies.

INTRODUCTION
The East Asian countries have attained remarkable economic growths in these 30-40 years. One of the major factors of economic growths in forerunning ASEAN countries (Singapore, Malaysia, Thailand, the Philippines, and Indonesia) and China can be attributed to their massive foreign direct investment (FDI) in specific areas.

In the forerunning ASEAN countries, industrial estates had been built mostly in the suburban areas of capital cities, and their governments have given several incentives to investing companies; as a result, many foreign companies set up their factories in these industrial estates since the second half of the 1980s. The government of China designated five cities as Special Economic Zones (SEZ)\(^1\) and later, 14 open coastal

\(^1\) It is said that this is the origin of Special Economic Zones (SEZ). Since then, such SEZs have been established in several countries. Characteristics of SEZ are diverse, but it can be defined as a specific
cities (OCC) at the first half of 1980s. These areas have received a huge FDI, especially after 1992\(^2\). At present, these areas in the ASEAN and China are connected by container ships and have formed an industrial production network.

Recently, however, modes of transport have diversified. The day when companies can choose the most efficient mode of transport---via sea, air, roads and railways---will soon be realized. As a matter of fact, economic corridors have been developed under the Greater Mekong Subregion Economic Cooperation Program (GMS-ECP), where major roads have connected the ASEAN and China and will be connecting ASEAN and China with Southern Asia. With the additional options provided by roads or railways, companies’ behavior will change, and the importance of Cambodia, Laos, Myanmar, and Vietnam (CLMV) as connecters of the three regions will increase.

The purpose of this study is to search for the candidates for SEZ in CLMV after classifying SEZs into four types. Section 2 identifies two types of SEZ from the experiences of the forerunning ASEAN countries. Section 3 introduces economic corridors of the GMS-ECP, recognizes two other types of SEZ, and explains the cross-border transport agreement (CBTA) as a measure for cross-border trade and transport facilitation. Section 4 searches for candidates of SEZ in CLMV and selects cities for the questionnaire survey and the flowchart approach-based survey. Section 5 concludes with country-specific strategies.

1. EXPERIENCES OF FORRUNNING ASEAN COUNTRIES

Forerunning ASEAN countries such as Malaysia, Thailand, and Indonesia have received massive FDIs from Japan and Asian newly industrializing economies (NIEs) such as South Korea, Taiwan, Hong Kong and Singapore since the middle of the 1980s. As a result, an international production and distribution network has been formed among the economies of Japan, Asian NIEs, China, and ASEAN countries. A review of the development of these forerunning ASEAN countries makes it clear that the areas that geographical region with economic laws that are more liberal than a country's typical economic laws. Many SEZs have characteristics of bonded zones, export processing zone (EPZ) or free trade zones and provide special incentives including tax exemption or reduction for investors.

\(^1\) 1992 was a remarkable year: Deng Xiaoping visited southern China and appraised the progress of SEZ. That year, the 14th Congress of Chinese Communist Party came up with the term “Socialist Market Economy.”
have attracted large investment are not many: For example, Kuala Lumpur, Selangor, Johor and Penang in Malaysia, Eastern Sea Board Area (Chonburi and Rayong), Bangkok and its neighboring prefectures (Aytuthaya, Pathumthani and Samutprakarn) in Thailand, Jabotabek (Jakarta, Bogor, Tangerang and Bekasi) area in Indonesia, and neighboring areas of Manila (Cavite and Laguna) in the Philippines (Figure 1). These areas have common characteristics: The distance from a port or harbor is relatively short, and the procurement of labor force is easy or the population is relatively large. In addition, industrial estates and infrastructure such as highway, electricity, and water for

Figure 1: Forerunning ASEAN Countries: Areas that Received Substantial FDIs.

Source: Circles were added on the map of South-East Asia by the author.

3 These areas are introduced as provinces, states or prefectures that had received a lot of investment from Japan (Ishida 2006).
4 As an exceptional case, Lamphun, a province in the Northern part of Thailand, has already received huge FDI.
industrial use have been developed. Industrial estates or factories in the estates have often been designated as bonded zones or bonded factories, respectively. Finally, tax incentives were given to companies that invested in these areas.

Of the areas within CLMV where the distance to their port and harbor is relatively short and where labor force is available or the population is relatively large, Ho Chi Minh City and Hanoi and their suburban provinces (Dongnai and Binh Duong Province and Hai Phong, Hai Duong, Vinh Phuc and Bac Ninh Province) have been identified and in fact have already received huge FDIs. It is not easy, however, to find such areas with larger population and better access to deep ports in Cambodia, Laos, and Myanmar (CLMV). Thus, one needs to loosen the conditions for SEZ in this case as thus: If one—instead of both—conditions is present, then an area can be a candidate for SEZ. That is, if the population is relatively large and population is dense, or if the distance to any ports and harbors is relatively short, then an area can be a candidate as SEZ. Locations with the former characteristic are called “metropolitan areas”, while the latter is termed as a “port and harbor area” in this paper.

Aside from loosening the SEZ conditions, the CLMV countries have been benefiting from the development of the GMS-ECP economic corridors. Thus, in the next section of this paper, these economic corridors of GMS-ECP are introduced before the candidates for SEZ are enumerated.

2. ECONOMIC CORRIDORS OF GMS-ECP

2.1 Economic Corridors

The economic corridor is a concept introduced at the GMS Eighth Ministerial Meeting in 1998 at a time when the GMS-ECP implementation was stalled by the Asian Currency Crisis. Economic corridors were born to help the area rise above the difficulties after the crisis. The basic idea is to enliven economic activities along the major roads or the transport corridors. Concrete examples include the establishments of industrial estates on the borders, and the construction of telecommunication and

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5 This expression is sometimes used because the Vietnamese economic development is the most outstanding among CLMV countries.
electricity transmission cables, and natural gas pipelines and tourism activities along the corridors.

The routes of the economic corridors are designated as follows (Figure 2):

East–West Economic Corridor

Danang (Vietnam) – Dongha – Laobao = Dengaovan (Laos) – Savannakhet =
Mukdahan (Thailand) – Phitsanulok – Tak – Maesot = Myawaddy (Myanmar) – Paan – Mawlamyine

North–South Economic Corridor

Bangkok (Thailand) – Phitsanulok – Chiangrai;
Chiangrai – Chiang Khong = Huayxai (Laos) – Luangnamtha – Boten = Mohan (China) – Xiaomengyang (Laos Route);
Chiangrai – Maesai = Tachilek (Myanmar) – Kyaingtong – Mongla = Daluo (China) – Jinghong – Xiaomengyang (Myanmar Route);
Xiaomengyang – Simao – Kunming;
Kunming–Hekou = Laocai (Vietnam) – Hanoi – Haiphong;

Southern Economic Corridor

Bangkok (Thailand) – Aranyaprathet = Poipet (Cambodia) – Sisophon;
Sisophon – Battangban – Phnom Penh (NR 5 Route)
Sisophon – Siemreap – Phnom Penh (NR 6 Route)
Phnom Penh – Bavet = Mocbai (Vietnam) – Ho Chi Minh City – Vuntau

The East–West Economic Corridor (EWEC) is a simple route from Danang of Vietnam on the coast of the Pacific Ocean, to Mawlamyine of Myanmar on the coast of the Indian Ocean. The North-South Economic Corridor (NSEC) is divided into sections: Bangkok–Kunming Road and Kunming–Hanoi–Haiphong Road. The Bangkok–Kunming Road has two routes between Chiangrai (Thailand) and Xiaomengyang (China), which are the Laos Route and the Myanmar Route. The Southern Economic Corridor (SEC) has two routes between Sisophon and Phnom Penh: the National Road 5 (NR5) route and the NR6 route.

Later, two subcorridors were added to the Southern Economic Corridor (SEC), and the route from Bangkok to Vuntau has been called the central subcorridor of the SEC. The new subcorridors are:
Figure 2: Three Economic Corridors in the Greater Mekong Subregion.

With respect to the NSEC, the new route between Hanoi and Nanning (Guangxi Zhuang Autonomous Region) was added after the agreement to add the Guangxi Zhuang Autonomous Region to the GMS in 2005 was signed:

New Route of the North-South Economic Corridor
Hanoi (Vietnam)–Lang Song =Pingxiang (China) –Nanning

Fortunately, there are major Southern China Cities such as Guangzhou, Dongguan, and Shenzhen on the extension of the road.

The economic corridors connect major cities in GMS area such as Bangkok, Hanoi, Ho Chi Minh City, Phnom Penh, and Kunming. In fact, road transport has already connected Singapore, Kuala Lumpur, Bangkok, Hanoi, Nanning, Guangzhou, and Shanghai since the completion of the Second Mekong International Bridge between Savannakhet and Mukdahan, and an order-based transport service between Shanghai and Singapore has been provided by one Japanese logistic company. In short, the economic corridors of GMS have provided an additional transport option---i.e., via roads---to the companies that deliver goods between China and ASEAN countries or within the ASEAN. More importantly, it is impossible to connect Singapore, Malaysia, and Thailand to China by land transportation without going through at least one of the CLMV countries. The development of economic corridors will further connect China with Southern Asia, and the ASEAN nations with Southern Asia in the future. Roads created within the economic corridors of GMS brought with them two advantages to CLMV: “border areas” and “junctions”.

Border areas in the Mekong Region had been treated not only as peripheries but also as battlefields where opposing military forces faced each other prior to the 1992
GMS-ECP inauguration. Since the inauguration, these border areas have been given some attention because of their several and unique advantages. For example, in a project at the border between a higher income country and a lower income nation, the former can utilize the labor force of the latter at lower wages (compared to what such firm from the high income country used to pay). Another example pertains to the resource endowments between a country with better economic infrastructure and a country with poorer infrastructure. People from the latter can have access to the supply of energy, telecommunication lines, water, and ports. Accordingly, dynamism can be born out of differences in factors and resource endowments between the two countries at the border areas (Kudo 2007).

A junction or crossroad of major roads is a point that connects cities and villages along one major road and those along the other major road. Thus, freights are loaded and unloaded at the junction or the crossroad so as to change directions. In this case, junctions and crossroads are important as logistic bases.

2.2 Cross-border Transport Agreement

In support of the economic corridors, a cross-border transport agreement (CBTA) is introduced here as one of the major policy frameworks of GMS-ECP. The CBTA is an agreement to facilitate the cross-border movement of vehicles. It has been signed by six countries of GMS-ECP and is in the process of ratification. It is composed of the main agreement, 17 annexes and three protocols. Bilateral memoranda of understanding (MoU) for five borders in accordance with these documents have been signed by each pair of countries.

The gist of CBTA is mainly composed of two components. One is single-window inspection (SWI) and single-stop inspection (SSI). The SWI aims to unify the windows for customs, immigration and quarantine (CIQ) into a single window. For SSI, the process and inspection of CIQ is currently done twice: i.e., by the exit country and by the entry country. The SSI aims to unify the redundant procedures into a single step. Specifically, those processes will henceforth be done only in the entry country.

The other component is the exchange of traffic rights. Currently, goods are transferred from country A to country B at some border areas in the Mekong Region. This is because these countries do not provide traffic rights to each other. The CBTA
carries articles that assume the exchange of traffic rights among member countries. For example, vehicles, and their parts and machine tools are exempted from taxations. In the case of transit transport---for example from Thailand to Vietnam by way of Laos---the containers are exempted from inspection in the transit country provided the containers are sealed.

After the MoU was signed, it became effective in some borders, and should have already started per the MoU’s schedule. Such has not been realized, however, except at the border of Lao Bao and Densavan between Vietnam and Laos on the EWEC, where the physical inspection for taxation purposes and then for quarantine have been unified.

There are several reasons for the delay. First, the thick CBTA documents, which are in English, are known to government officials who participated in the negotiation, but officials at border check points do not understand them. In short, the dissemination has not been done well. People in the countries at the Mekong Region do not speak English in daily life. The translation of the CBTA into each country’s language as well as training of officials at the border check point on English as well as the language of a neighboring country are therefore necessary.

Second, the CBTA was signed by ministers of transportation. The National Transport Facilitation Committee (NTFC), which was built in each country, is composed of officials coming from related ministries such as taxation, health, agriculture, and homeland affairs. In other words, the NTFC was designed to avoid sectionalism. However, one financial minister was allegedly quoted as saying that he did not know anything about the signing of the CBTA by a transport-related minister. In this case, adjustment among related ministries with a leadership of the highest ranked official like a prime minister or a president is needed.

Third, there are several contradictions between the CBTA and domestic regulations. In addition, institutional regimes and facilities such as the common control area (CCA), a space for physical inspection by officials of both countries, have not been set up.

The realization of the CBTA in the future will surely facilitate cross-border trade and cross-border logistics. It can reduce the distance between factories and markets and is necessary for the development of CLMV.
3. CANDIDATES OF SEZ IN CLMV

Based on the experiences of forerunning ASEAN countries and China, and the possibilities provided by GMS economic corridors, the types of SEZ in CLMV can be classified as metropolitan areas, ports and harbors, border areas, and junctions or crossroads. Here we would like to search for candidates for the SEZ based on the four types.

3.1 Metropolitan Areas
Table 1 enumerates major cities in CLMV. A metropolitan area plays an important role as a potential market for goods produced in CLMV and as provider of abundant labor force. Hanoi, Ho Chi Minh City and their suburban areas have already been developed and received FDIs. Among the other metropolitan areas that have been left behind, Yangon and Mandalay of Myanmar have larger potential. Next to these cities, Phnom Penh and Kampong Cham also have a larger population but do not have many companies in manufacturing except traditional industries such as rice mills in Kampong Cham.

On the other hand, Vientiane and Danang have already received several FDI companies, but their population is less than one million each. However, if one were to factor in the suburban areas of the two cities, which are Vientiane Prefecture and Hue, with other provinces of the middle part of Vietnam, the potential population becomes bigger than one million.

3.2 Ports and Harbors
Ports are the gateways to export markets and play important roles in the procurement of raw materials and intermediate goods from other countries. The same is true with bringing the goods produced in the CLMV to the overseas market. Table 2 enumerates major ports and harbors in the CLMV. In the world of sea transport in East Asia, however, these ports work as feeder ports, and most of the ships from these ports gather at two major hub ports in Asia: Hong Kong and Singapore.
### Table 1: Population and Economic Indicators of Metropolitans in CLMV.

<table>
<thead>
<tr>
<th>Area</th>
<th>Population Density</th>
<th>GPP/Cap.</th>
<th>GPP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(1,000 Km²)</td>
<td>(1,000 Persons)</td>
<td>(Persons/Km²)</td>
</tr>
<tr>
<td>Phnom Phen</td>
<td>Cambodia</td>
<td>267.0</td>
<td>1,313.9</td>
</tr>
<tr>
<td>Kampong Cham</td>
<td>Cambodia</td>
<td>9,799.0</td>
<td>1,857.5</td>
</tr>
<tr>
<td>Vientiane</td>
<td>Laos</td>
<td>3,920.0</td>
<td>788.9</td>
</tr>
<tr>
<td>Yangon</td>
<td>Myanmar</td>
<td>10,166.9</td>
<td>6,460.0</td>
</tr>
<tr>
<td>Mandalay</td>
<td>Myanmar</td>
<td>37,008.1</td>
<td>7,739.0</td>
</tr>
<tr>
<td>Ho Chi Minh</td>
<td>Vietnam</td>
<td>2,095.2</td>
<td>6,107.8</td>
</tr>
<tr>
<td>Ha Noi</td>
<td>Vietnam</td>
<td>921.0</td>
<td>3,236.4</td>
</tr>
<tr>
<td>Danang</td>
<td>Vietnam</td>
<td>1,255.5</td>
<td>789.8</td>
</tr>
</tbody>
</table>

Notes: Data for the GPP per capita are very rough estimates. These were obtained using the following processes:

1) GPP and GPP per capita in Cambodia has not been published.
2) The data of GPP, GPP per capita in Laos are values for planning in 2006/2007 which are collected from the Provincial Offices of Laos. The population data are based on the yearbook.
3) The GRP per capita in Myanmar is based on monthly household expenditure values of 2004/2005 survey. Annual expenditure per capita was obtained by dividing the annual expenditure per household by the value of the averaged household size and multiplying its quotient by 12 months.
4) As for the exchange rate of Myanmar, it is calculated by dividing the value of GDP in Kyat by GDP per capita in US dollars published on the website of ASEAN Secretariat.
5) The GPP per capita in Vietnam was obtained by multiplying monthly per capita income (based on 2006 household survey), with the population of provinces, by 12 months. The GPP is the product of GPP per capita and population.


For cities and villages along the EWEC, Danang and Maulamyine ports are designed as gateways to the Pacific and Indian Oceans, respectively. Danang Port (Tiensa), specifically, was expected to be one of the deepest ports in Vietnam. However, the quantity of container cargos is less than those in Saigon and Haiphong, which are river ports that are relatively shallow. The smaller quantity of cargo reflects the level of industrialization in Danang City. If the port city is less industrialized, the quantity of cargos becomes smaller; thus, lesser ships dock in the port. Furthermore, lesser ship implies that the location is not attractive for an export-oriented investment. On the other hand, if the port city is industrialized, the quantity of cargos increase and the number of ships also rise and attracts more investors. The development of industries and the transport infrastructure must proceed hand in hand.
Table 2: Major Ports and Harbors in CLMV

<table>
<thead>
<tr>
<th>Port</th>
<th>Country</th>
<th>Location</th>
<th>Depth (m)</th>
<th>Container Throughput (TEU/Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sihanouk Ville</td>
<td>Cambodia</td>
<td>Sea</td>
<td>8.3</td>
<td>231 (2006)</td>
</tr>
<tr>
<td>Phnom Penh</td>
<td>Cambodia</td>
<td>River</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Yangon</td>
<td>Myanmar</td>
<td>River</td>
<td>9</td>
<td>129 (1999)</td>
</tr>
<tr>
<td>Thilawa</td>
<td>Myanmar</td>
<td>River</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Maulamyaine</td>
<td>Myanmar</td>
<td>Sea</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Dawei</td>
<td>Myanmar</td>
<td>Sea</td>
<td>12</td>
<td>-</td>
</tr>
<tr>
<td>Saigon</td>
<td>Vietnam</td>
<td>River</td>
<td>10</td>
<td>1,200 (2005)</td>
</tr>
<tr>
<td>Thi Vai &amp; Cai Mep</td>
<td>Vietnam</td>
<td>River</td>
<td>15</td>
<td>-</td>
</tr>
<tr>
<td>Qui Nhon</td>
<td>Vietnam</td>
<td>Sea</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Danang</td>
<td>Vietnam</td>
<td>Sea</td>
<td>12</td>
<td>34 (2005)</td>
</tr>
<tr>
<td>Hai Phong</td>
<td>Vietnam</td>
<td>River</td>
<td>8</td>
<td>400 (2005)</td>
</tr>
<tr>
<td>Cailan</td>
<td>Vietnam</td>
<td>Sea</td>
<td>12</td>
<td>-</td>
</tr>
</tbody>
</table>


The port of Maulamyaine was expected to reduce the transport time of companies in Thailand in exporting to Europe and the Middle East because it can provide a route that is a shorter alternative than the Malacca strait route. As a matter of fact, it takes two or three weeks to go to the Indian Ocean from Siam Bay via the Malay Peninsula and the Malacca Strait. On the other hand, it takes only three or four days from Bangkok to Yangon by road even though the road condition in sections of Myanmar is extremely bad. However, the effectiveness of Maulamyaine as a sea port is suspected because the area is shallow and still needs to be dredged while it is one of large cities in Myanmar.

Dawei is another potential deep sea port. Thus, a road connecting Bangkok and Dawei has been planned as a new economic corridor despite the fact that it has only few companies in the modernized manufacturing sector.

As for the other ports and harbors, Thilawa, Thi Vai and Cai Mep, and Cailan Ports will be developed to serve as substitute sea ports of Yangon, Saigon and Hai Phong, respectively. Among these, the Thi Vai and Cai Mep ports have already attracted interests. Major container terminal operators in the world such as PSA International, SSA Marine, and Hatchison Port have decided to build container terminals by establishing joint venture companies with local partners since the Japanese government
had decided to give assistance and to dredge the ship route from the river mouth to the upstream (United Nations 2007). As to the Saigon and Hai Phong Port, both are river ports instead of deep sea ports, but they have been major ports in the Northern and Southern parts of Vietnam, respectively.

Lastly, Sihanouk Ville should be mentioned. It is not a deep port at 8.3 meters in depth. It should be noted, however, that it is Cambodia’s sole sea port that is deep enough, considering the current scale of the Cambodian economy. In terms of the frequency of arrivals, nine liners drop by at Sihanouk Ville Port from/to Singapore, Thailand, Vietnam, Malaysia and Indonesia in a week. Several industrial estates have been built as SEZ, one of which is supported by the Japanese official development assistance (ODA) program.

3.3 Development of Border Areas

Table 3 shows special economic zones at border areas that have been planned, some of which are already operating. In the Lao and Thai borders of Thanaleng-Nong Khai, manufacturing factories have been operating along the road between the center of Vientiane City and Mekong Friendship Bridge. Similarly, an industrial estate had been

Table 3: Realized and Planned Special Economic Zones at Border Areas

<table>
<thead>
<tr>
<th>Borders</th>
<th>Provinces</th>
<th>Values in Border Provinces as of 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bavet–Mocbai</td>
<td>CV Svay Rieng-Tay Ninh</td>
<td>Populations (1,000 persons): 538.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 1046.8</td>
</tr>
<tr>
<td>Koh Kong–Trat</td>
<td>CT Banteay Mean Chey-SA</td>
<td>Populations (1,000 persons): 191.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 219.9</td>
</tr>
<tr>
<td>Poipet-Aranya Prathet</td>
<td>CT Kaeo</td>
<td>Populations (1,000 persons): 773.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 538.3</td>
</tr>
<tr>
<td>Denh Savanh– Lao Bao</td>
<td>LV Savannakhet–Quang Tri</td>
<td>Populations (1,000 persons): 859.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 625.3</td>
</tr>
<tr>
<td>Savannakhet- Mukdahan</td>
<td>LT Vientiane-Nong Khai</td>
<td>Populations (1,000 persons): 859.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 335.4</td>
</tr>
<tr>
<td>Thanaleng - Nong Kai</td>
<td>LT Bokor-Chiang Rai</td>
<td>Populations (1,000 persons): 711.9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 899.6</td>
</tr>
<tr>
<td>Huai Xai - Chiang Khong</td>
<td>LT Bokeo</td>
<td>Populations (1,000 persons): 149.6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 1,225.7</td>
</tr>
<tr>
<td>Myawaddy - Mae Sot</td>
<td>MT Karen–Tak</td>
<td>Populations (1,000 persons): 1,674.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 527.7</td>
</tr>
<tr>
<td>Tachilek - Mae Sai</td>
<td>MT Shan-Chiang Rai</td>
<td>Populations (1,000 persons): 5,306.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Densities (Persons/Km²): 1,225.7</td>
</tr>
</tbody>
</table>

Notes and Sources: Same in Table 1 with respect to CLMV countries. As for Thailand, it is based on National Statistical Office[2007] Statistical Yearbook Thailand 2007 (Special Edition).

6 Based on an interview with a Japan International Cooperation Agency (JICA) expert at the Port Authority of Sihanouk Ville, dated November 15, 2007.
developed at Bavet in Cambodia by the Manhattan Development, Ltd., with several foreign companies operating. In Lao Bao, Vietnam, a special economic zone has also been built. Several manufacturing companies have been operating, and many imported goods are sold at duty free shops at the border. In Mae Sot, Thailand, Thai companies produce garments by employing workers from Myanmar at cheaper wages.

On the other hand, at Poipet and Koh Kong in Cambodia and Savannakhet in Laos, the enclosed lands have been developed, and several companies plan to establish factories after the area is designated as a SEZ. However, the population density of Koh Kong and Savannakhet is low, and both sites thus might face difficulty in hiring labor unless a large migration occurs in these areas. Meanwhile, it is possible that a new border area will be developed at Poipet since the current border sites do not anymore have enough vacant space due to the proliferation of casinos.

Meanwhile, the population density and gross provincial product (GPP) of border provinces in Table 3 revealed that provinces of the sides with operational special border economic zones have relatively higher population density (e.g., Bavet, Lao Bao and Thanaleng) than those of the other sides. An exception is the case in Mae Sot where garment factories hire legal and illegal migrant workers from Myanmar, causing population at the border area to increase. It is also important to consider that provincial data do not always reflect the actual situation at the border, particularly in big provinces (i.e., by area) such as Shan and Karen in Myanmar.

In terms of population density, Savannakhet as an industrial estate location is unlikely. Although it is the second largest province in Laos, its population density is low while its population is scattered. In fact, most investors planned to invest in plantation and agricultural sectors, while the number of approved investors dramatically increased in 2006 before the completion of the Second Mekong International Bridge (Keola 2007). The population of Koh Kong is also relatively small and is in a similar situation. Khon Kaen Sugar Industry Public Company, Ltd. (Thai company), shareholder of Savannakhet Sugar Corp. and Koh Kong Plantation Co., Ltd., has been granted concessions of 10,000 ha and 20,000 ha, respectively in Savannakhet and Koh Kong (The Nation, August 17, 2007).

Locating industrial estates at border areas with a relatively smaller population is not feasible if large-scale labor migration does not occur. Such an option will be unable to
make use of abundant labor force at cheaper wages. Instead, such border areas should make use of other factor endowments with comparative advantages such as abundant land and natural resources. Needles to say, developing such border areas should be socially and environmentally sustainable.

### 3.4 Making Use of Junctions

The pre-investment survey for the EWEC in 2001 enumerates Phitsanulok, Khon Kaen and Dong Ha as intersection or junctions of the East-West Economic Corridor (EWEC) and the North-South Economic Corridor’s (NSEC), National Road No. 2 (NR 2) of Thailand and the NR 1 of Vietnam, respectively. In Phitsanulok, specifically, commodities produced at cities or villages along the EWEC can be transported to cities and villages along the NSEC like Chiang Mai, Kunming, and Bangkok; the same can be done with commodities from the NSEC to the EWEC. Similarly, at Khon Kaen, the NR 2 of Thailand can transport goods to Vientiane, Nakhon Ratchasima, and Bangkok; and at Dong Ha, NR 1 of Vietnam can be used as passageway for goods to Hanoi and Ho Chi Minh City.

The effectiveness of junctions can be generalized. There are two cases shown in Figure 3. The left case is that from each point, goods can be delivered to three other points with the assumption that two sets of two points are connected by two lines and the lines cross each other at their middle points. The right-side case shows that goods

**Figure 3: Effectiveness of Inland Container Depot at Junctions**

![Diagram showing the effectiveness of inland container depot at junctions]

*Source: Author created.*
can be delivered from each point \( A, B, C \) and \( D \) to point \( E \). Such good is conveyed to each point after unloading and loading with the assumption that point \( E \) is located at the crossroad of two lines. The left case needs 12 tracks, and the total transportation distance needed is twice of the right case. On the other hand, the right case needs four tracks only but requires constant unloading and loading. The left case can be more effective than the right case in many situations.

In addition to the abovementioned junctions, Seno district in Savannakhet, where the EWEC crosses with NR 13 of Laos, is equally important. Savannakhet is designated as a special economic zone, and Seno was either mentioned alone or with Savannakhet. NR 13 is the most important passageway in Laos as it connects major cities such as Luang Prabang, Vientiane, Savannakhet, and Pakse. The Japan Logistic System Corp established a joint venture with Logitem Laos GLKP Co., Ltd. to operate an innerland container depot (ICT) at Seno district on October 1, 2007. The joint venture transfers freights between Bangkok and Hanoi. This reinforces the fact that Seno is not only an important junction in NR 13 but also serves as transfer point for freights between Bangkok and Hanoi. Thus, Savannakhet remains a strategically important location even if it may not be an appropriate location for an industrial estate. Similarly, developing ICT has been planned at Khon Kaen and Phitsanulok (Tsuneishi 2007).

In addition to Savannakhet, Luang Namtha can be another transportation hub of the NSEC. Because Luang Namtha is along the NSEC between Bangkok and Kunming, the road to Hanoi and road to Vientiane also gather at Luang Namtha. In fact, regular buses that connect Kunming and Vientiane by way of Luang Namtha have already been operating.

3. 5 Locations for surveys

Taking into consideration the areas enumerated so far as well as their number of existing firms, the locations chosen for the questionnaire survey are as follows:

Cambodia: Phnom Penh, Sihanouk Ville and Bavet
Laos: Vientiane and Savannakhet
Myanmar: Yangon, Mandalay and Myeik
Vietnam: Danang
And the locations for the flowchart approach-based survey are:

Cambodia: Phnom Penh and Sihanouk Ville
Laos: Vientiane and Savannakhet
Myanmar: Yangon
Vietnam: Danang

CONCLUDING REMARKS

Candidates as SEZs in the CLMV have earlier been enumerated. Based on the listed candidates, this paper concludes with the present country-specific strategies.

To develop Cambodia, this paper presents a strategy to develop Phnom Penh and Sihanouk Ville as one set. In Phnom Penh, the Phnom Penh SEZ has already been developed in 2008 and has several manufacturing companies operating. In Sihanouk Ville, some manufacturing companies were said to have already decided to invest in the SEZ. The advantage of Phnom Penh is its larger population, but the distance to Sihanouk Ville Port is about 220km. On the other hand, Sihanouk Ville is a port city, but its population is not large. Each of these locations satisfies only one of our two conditions (i.e., larger population and better access to deep ports) so together, they can complement each other. These two cities should attract suitable industries, respectively. For example, heavy industries like chemical resins and steel and iron, whose transport cost per weight is higher, are suitable in Sihanouk Ville. In addition, the industries that can substitute import with domestic production are possible in Sihanouk Ville Port. Such industries can maintain their economy of scale by exporting to foreign countries from Sihanouk Ville.

On the other hand, industries, whose transport cost per weight are lower (such as precision industry) or are labor-intensive, are suitable in Phnom Penh. Therefore, “a good combination of Phnom Penh and Sihanouk Ville” is the policy strategy for Cambodia.

Another strategy for Cambodia is to utilize the border areas. Bavet and Poipet have
relatively larger population and are situated on the central subcorridor of the Southern economic corridor. Thus, these two cities are good candidates as SEZ. On the other hand, Koh Kong is better off taking another direction; that is, it could instead focus on attracting agro-based industries.

Laos, Vientiane, Savannakhet, and Luang Namtha were mentioned in this study. Among the three cities, Savannakhet is on the EWEC, and Luang Namtha is on the NSEC, but Vientiane is not on the economic corridors. However, Vientiane is a city that holds the largest population per area and its access to Thailand by way of Friendship Bridge is better; thus, the city is suitable for the manufacturing industry. On the other hand, Savannakhet and Luang Namtha can increase their role as a junction of major roads and can attract agro-based industries. As a matter of fact, the population of Laos is not large. Manufacturing industries that need more labor force should be focused on Vientiane.

Therefore, this paper recommends that based on the above analysis, Vientiane, Savannakhet and Luang Namtha’s specific functions should be strengthened.

As for Myanmar, three regions should be developed as SEZ candidates. The first is the Yangon and Thilawa region. This region has a larger population and its access to the harbor can be realized by improving the Thilawa port and the access road between the two cities. The second region is the west coastal area of Malay Peninsula, which includes Maulamyaine and Dawei. The advantage of this area can be realized by improving the road to Thailand. In addition to two port cities, Myeik should be added because this port is used by ships from/to Singapore and Malaysia, and fishery-related industries have been well developed. The third region is Mandalay and Sagine. This region is an inland region, but has a huge population and better road access to China.

As for Vietnam, Ho Chi Minh, Hanoi, and their suburban areas (including Hai Phong and Vuntau) have already been developed and have received substantial FDIs. The supporting SEZ strategy should be focused on the middle part of Vietnam, which includes Danang, Hue, Don Ha and Lao Bao. Here, a policy to strengthen the linkage between the EWEC and Danang Port is needed. As a matter of fact, the distance from Savannakhet to Danang is about 500 km—which is shorter than the 720-km distance to Laem Chabang Port in Thailand. A few transport operators in Laos, however, do not use the Danang Port. Among the reasons they do not use Danang Port are the strict
restriction on the road speed and the frequency of ship arrivals. The largest problem, however, is that it takes more than one month for Vietnam to act on the vacant container order of a transport operator in Laos. In contrast, Thailand’s turnaround is two or three days only. Simplifying the cross-border processes, therefore, remains a challenge for Vietnam.

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