



Economy Profile: **Singapore**

Doing business in a
more transparent world

COMPARING REGULATION FOR DOMESTIC FIRMS IN 183 ECONOMIES

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Copies of *Doing Business 2012: Doing Business in a More Transparent World*, *Doing Business 2011: Making a Difference for Entrepreneurs*, *Doing Business 2010: Reforming through Difficult Times*, *Doing Business 2009*, *Doing Business 2008*, *Doing Business 2007: How to Reform*, *Doing Business in 2006: Creating Jobs*, *Doing Business in 2005: Removing Obstacles to Growth* and *Doing Business in 2004: Understanding Regulations* may be downloaded at www.doingbusiness.org.

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INTRODUCTION

Doing Business sheds light on how easy or difficult it is for a local entrepreneur to open and run a small to medium-size business when complying with relevant regulations. It measures and tracks changes in regulations affecting 10 areas in the life cycle of a business: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts and resolving insolvency.

In a series of annual reports *Doing Business* presents quantitative indicators on business regulations and the protection of property rights that can be compared across 183 economies, from Afghanistan to Zimbabwe, over time. The data set covers 46 economies in Sub-Saharan Africa, 32 in Latin America and the Caribbean, 24 in East Asia and the Pacific, 24 in Eastern Europe and Central Asia, 18 in the Middle East and North Africa and 8 in South Asia, as well as 31 OECD high-income economies. The indicators are used to analyze economic outcomes and identify what reforms have worked, where and why.

This economy profile presents the *Doing Business* indicators for Singapore. To allow useful comparison, it also provides data for other selected economies (comparator economies) for each indicator. The data in this report are current as of June 1, 2011 (except for

the paying taxes indicators, which cover the period January–December 2010).

The *Doing Business* methodology has limitations. Other areas important to business—such as an economy's proximity to large markets, the quality of its infrastructure services (other than those related to trading across borders and getting electricity), the security of property from theft and looting, the transparency of government procurement, macroeconomic conditions or the underlying strength of institutions—are not directly studied by *Doing Business*. The indicators refer to a specific type of business, generally a local limited liability company operating in the largest business city. Because standard assumptions are used in the data collection, comparisons and benchmarks are valid across economies. The data not only highlight the extent of obstacles to doing business; they also help identify the source of those obstacles, supporting policy makers in designing regulatory reform.

More information is available in the full report. *Doing Business 2012* presents the indicators, analyzes their relationship with economic outcomes and recommends regulatory reforms. The data, along with information on ordering *Doing Business 2012*, are available on the *Doing Business* website at <http://www.doingbusiness.org>.

THE BUSINESS ENVIRONMENT

For policy makers trying to improve their economy's regulatory environment for business, a good place to start is to find out how it compares with the regulatory environment in other economies. *Doing Business* provides an aggregate ranking on the ease of doing business based on indicator sets that measure and benchmark regulations applying to domestic small to medium-size businesses through their life cycle. Economies are ranked from 1 to 183 by the ease of doing business index. For each economy the index is calculated as the ranking on the simple average of its percentile rankings on each of the 10 topics included in the index in *Doing Business 2012*: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts and resolving insolvency. The ranking on each topic is the simple average of the percentile rankings on its component indicators (see the data notes for more details).¹

The aggregate ranking on the ease of doing business benchmarks each economy's performance on the indicators against that of all other economies in the *Doing Business* sample (figure 1.1). While this ranking tells much about the business environment in an economy, it does not tell the whole story. The ranking on the ease of doing business, and the underlying indicators, do not measure all aspects of the business environment that matter to firms and investors or that affect the competitiveness of the economy. Still, a high ranking does mean that the government has created a regulatory environment conducive to operating a business.

ECONOMY OVERVIEW

Region: East Asia & Pacific

Income category: High income

Population: 5,140,300

GNI per capita (US\$): 40,920.00

DB2012 rank: 1

DB2011 rank: 1

Change in rank: 0

Note: See the data notes for sources and definitions.

¹ Except for the ease of getting credit, for which the percentile rankings on its component indicators are weighted, the depth of credit information index at 37.5% and the strength of legal rights index at 62.5%.

THE BUSINESS ENVIRONMENT

Figure 1.1 Where economies stand in the global ranking on the ease of doing business



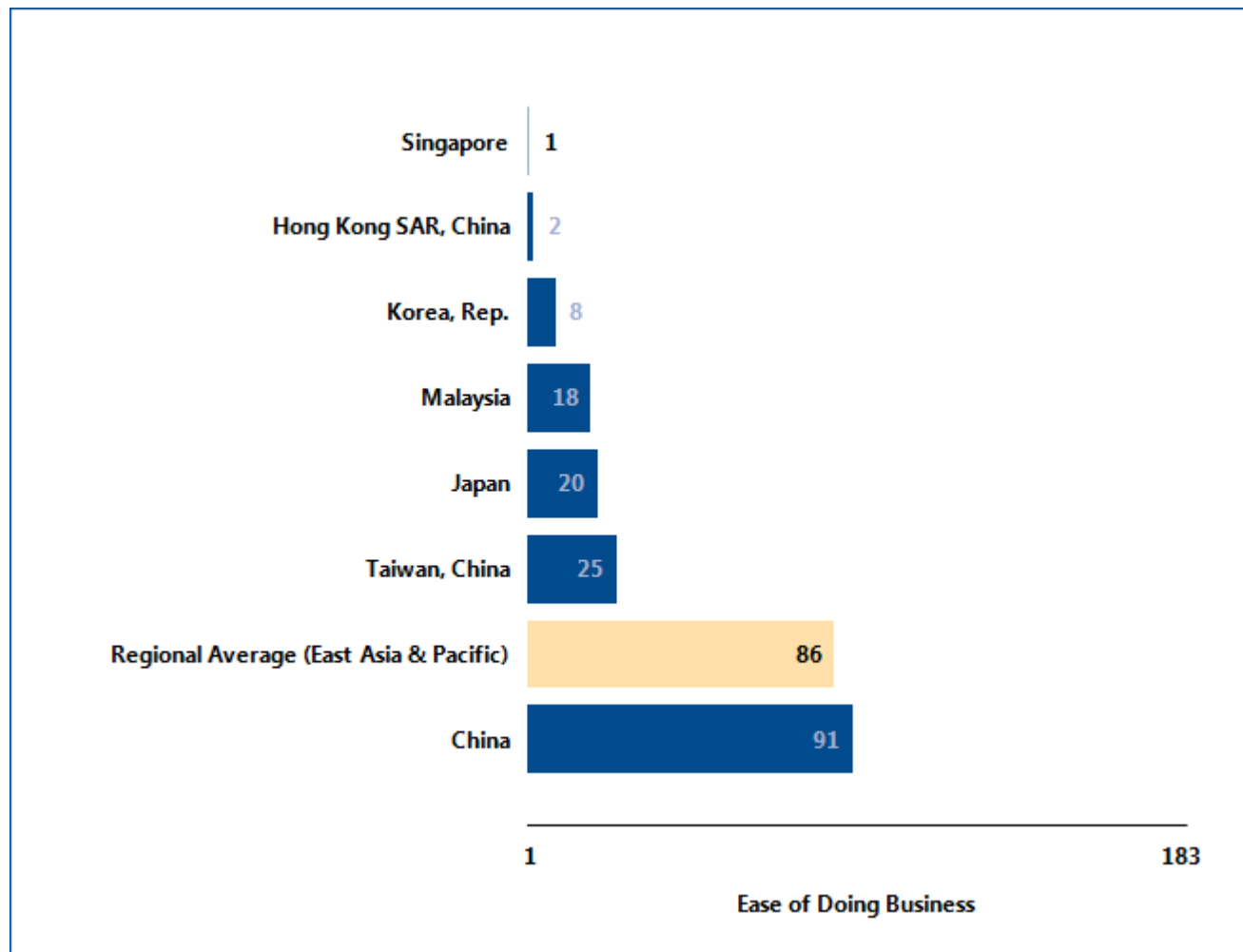
Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

For policy makers, knowing where their economy stands in the aggregate ranking on the ease of doing business is useful. Also useful is to know how it ranks compared with other economies and compared with

the regional average (figure 1.2). The economy's rankings on the topics included in the ease of doing business index provide another perspective (figure 1.3).

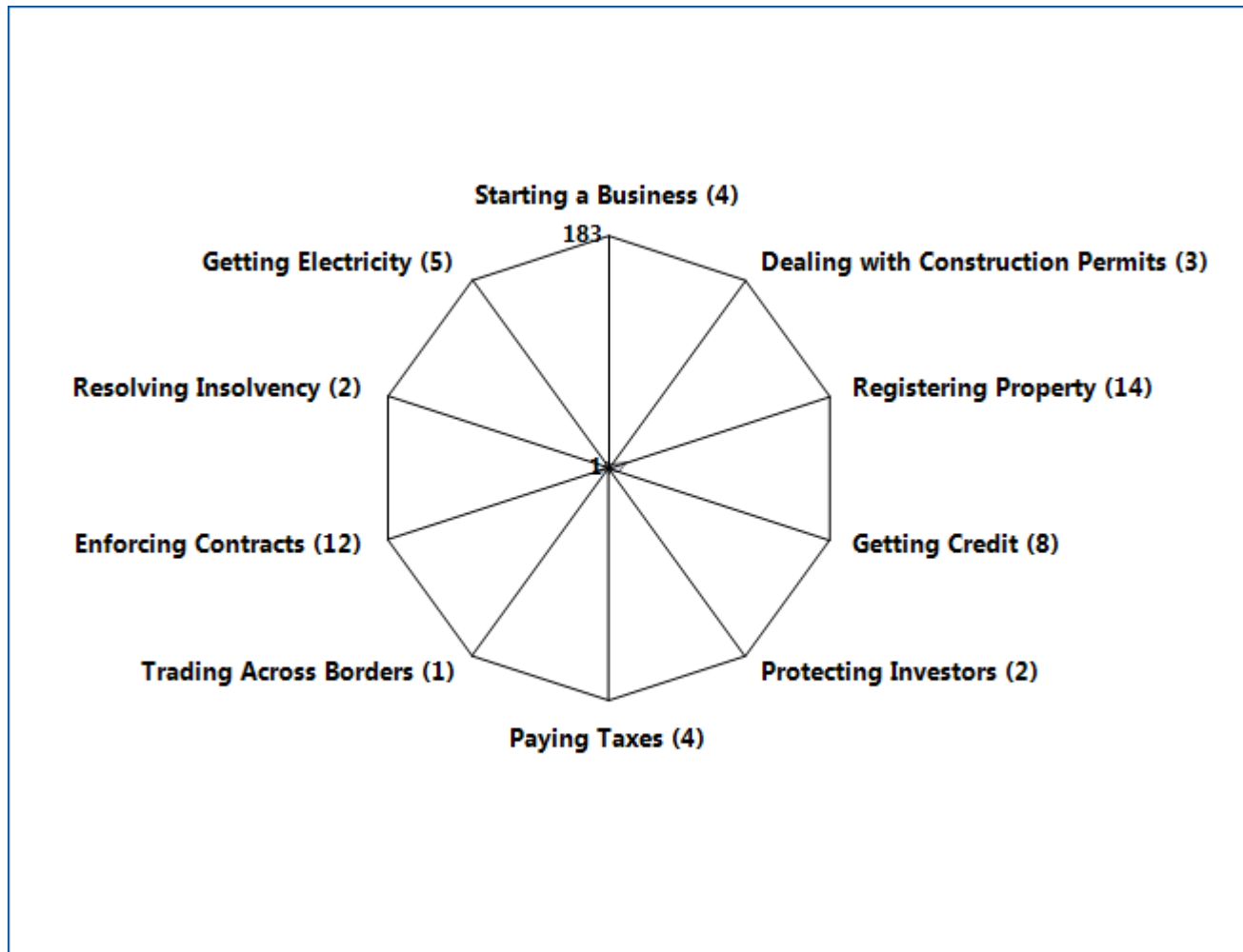
Figure 1.2 How Singapore and comparator economies rank on the ease of doing business



Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

Figure 1.3 How Singapore ranks on *Doing Business* topics



Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

Just as the overall ranking on the ease of doing business tells only part of the story, so do changes in that ranking. Yearly movements in rankings can provide some indication of changes in an economy's regulatory environment for firms, but they are always relative. An economy's ranking might change because of developments in other economies. An economy that implemented business regulation reforms may fail to rise in the rankings (or may even drop) if it is passed by others whose business regulation reforms had a more significant impact as measured by *Doing Business*.

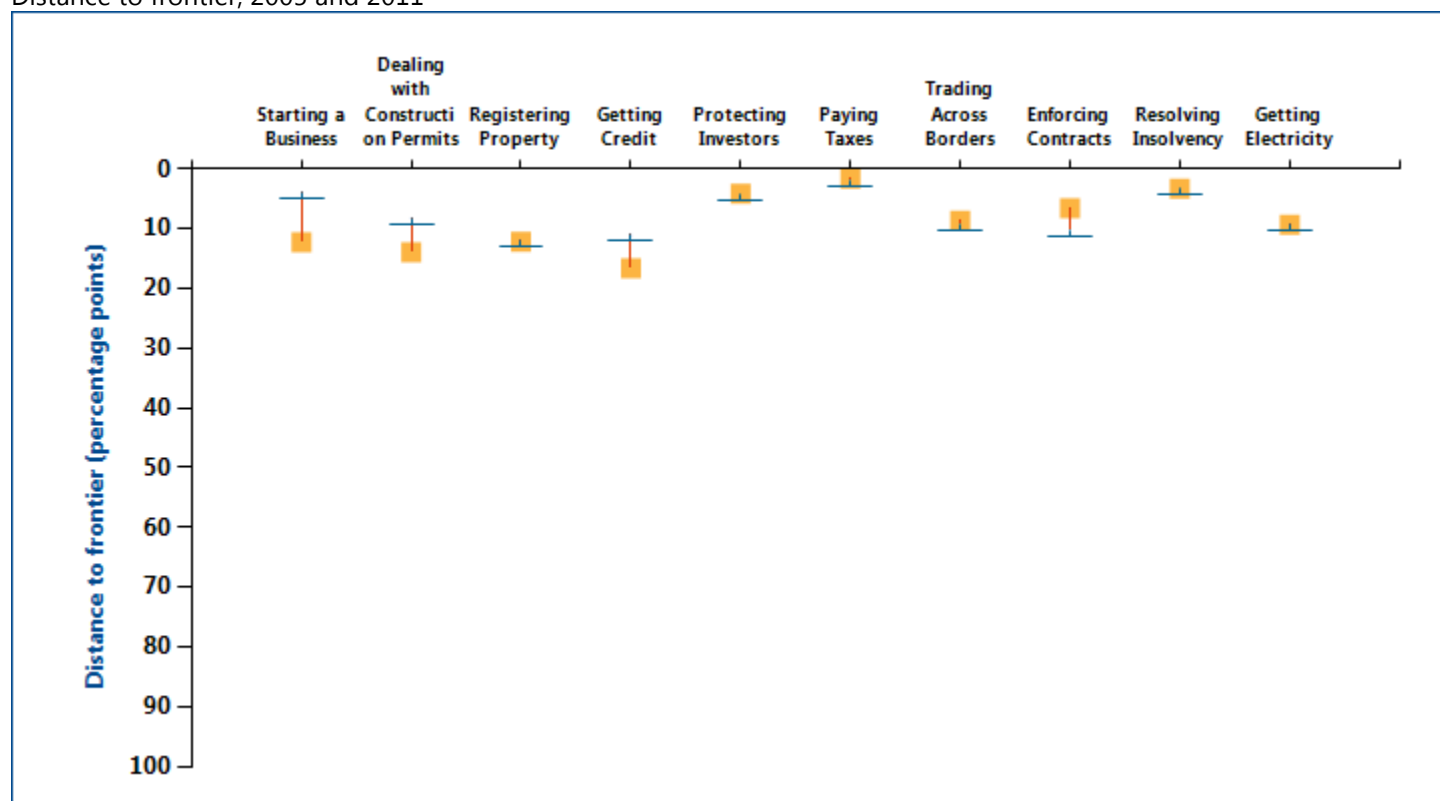
Moreover, year-to-year changes in the overall rankings do not reflect how the business regulatory environment in an economy has changed over time—or how it has changed in different areas. To aid in assessing such changes, *Doing Business 2012* introduces the distance to frontier measure.

This measure shows the distance of each economy to the “frontier,” a synthetic measure based on the most efficient practice or highest score observed for each *Doing Business* indicator across all economies and years included in the *Doing Business* sample since 2005. Nine areas of business regulation are covered.

Comparing the measure for an economy at 2 points in time allows users to assess how much the economy's regulatory environment as measured by *Doing Business* has changed over time—how far it has moved toward (or away from) the most efficient practices and strongest regulations in areas covered by *Doing Business* (figure 1.4). The results may show that the pace of change varies widely across the areas measured. They also may show that an economy is relatively close to the frontier in some areas and relatively far from it in others.

Figure 1.4 How far has Singapore come in the areas measured by *Doing Business*?

Distance to frontier, 2005 and 2011



Note: For economies added to the *Doing Business* sample after 2005, the starting point is the year in which they were added: 2006 for Montenegro; 2007 for Brunei Darussalam, Liberia and Luxembourg; 2008 for The Bahamas, Bahrain and Qatar; and 2009 for Cyprus and Kosovo. See the data notes for more details on the distance to frontier measure.

Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

The absolute values of the indicators tell another part of the story (table 1.1). The indicators, on their own or in comparison with the indicators of a good practice economy or those of comparator economies in the region, may reveal bottlenecks reflected in large numbers of procedures, long delays or high costs. Or they may reveal unexpected strengths in an area of

business regulation—such as a regulatory process that can be completed with a small number of procedures in a few days and at a low cost. Comparison of the economy's indicators today with those in the previous year may show where substantial bottlenecks persist—and where they are diminishing.

Table 1.1 Summary of *Doing Business* indicators for Singapore

Indicator	Singapore DB2012	Singapore DB2011	China DB2012	Hong Kong SAR, China DB2012	Japan DB2012	Korea, Rep. DB2012	Malaysia DB2012	Taiwan, China DB2012	Best performer globally DB2012
Starting a Business (rank)	4	4	151	5	107	24	50	16	New Zealand (1)
Procedures (number)	3	3	14	3	8	5	4	3	Canada (1)*
Time (days)	3	3	38	3	23	7	6	10	New Zealand (1)
Cost (% of income per capita)	0.7	0.7	3.5	1.9	7.5	14.6	16.4	2.5	Denmark (0.0)*
Paid-in Min. Capital (% of income per capita)	0.0	0.0	100.4	0.0	0.0	0.0	0.0	0.0	82 Economies (0.0)*
Dealing with Construction Permits (rank)	3	3	179	1	63	26	113	87	Hong Kong SAR, China (1)
Procedures (number)	11	11	33	6	14	12	22	25	Denmark (5)
Time (days)	26	26	311	67	193	30	260	125	Singapore (26)*
Cost (% of income per capita)	18.1	19.7	444.1	17.8	27.9	79.5	7.1	41.9	Qatar (1.1)

Indicator	Singapore DB2012	Singapore DB2011	China DB2012	Hong Kong SAR, China DB2012	Japan DB2012	Korea, Rep. DB2012	Malaysia DB2012	Taiwan, China DB2012	Best performer globally DB2012
Getting Electricity (rank)	5	4	115	4	26	11	59	3	Iceland (1)
Procedures (number)	4	4	5	4	3	4	6	4	Germany (3)*
Time (days)	36	36	145	43	117	49	51	23	Germany (17)
Cost (% of income per capita)	31.1	33.8	640.9	1.7	0.0	38.6	95.5	52.4	Japan (0.0)
Registering Property (rank)	14	15	40	57	58	71	59	33	New Zealand (3)
Procedures (number)	3	3	4	5	6	7	5	3	Portugal (1)*
Time (days)	5	5	29	36	14	11	48	5	Portugal (1)
Cost (% of property value)	2.8	2.8	3.6	4.1	5.7	5.1	3.3	6.2	Slovak Republic (0.0)
Getting Credit (rank)	8	8	67	4	24	8	1	67	United Kingdom (1)*
Strength of legal rights index (0-10)	10	10	6	10	7	8	10	5	New Zealand (10)*
Depth of credit information index (0-6)	4	4	4	5	6	6	6	5	Japan (6)*
Public registry coverage (% of adults)	0.0	0.0	82.5	0.0	0.0	0.0	49.4	0.0	Portugal (86.2)
Private bureau coverage (% of adults)	53.8	60.8	0.0	86.3	99.0	100.0	83.4	90.9	New Zealand (100.0)*
Protecting Investors (rank)	2	2	97	3	17	79	4	79	New Zealand (1)
Extent of disclosure index (0-10)	10	10	10	10	7	7	10	7	France (10)*

Indicator	Singapore DB2012	Singapore DB2011	China DB2012	Hong Kong SAR, China DB2012	Japan DB2012	Korea, Rep. DB2012	Malaysia DB2012	Taiwan, China DB2012	Best performer globally DB2012
Extent of director liability index (0-10)	9	9	1	8	6	2	9	4	Singapore (9)*
Ease of shareholder suits index (0-10)	9	9	4	9	8	7	7	5	New Zealand (10)*
Strength of investor protection index (0-10)	9.3	9.3	5.0	9.0	7.0	5.3	8.7	5.3	New Zealand (9.7)
Paying Taxes (rank)	4	4	122	3	120	38	41	71	Canada (8)
Payments (number per year)	5	5	7	3	14	12	13	15	Norway (4)
Time (hours per year)	84	84	398	80	330	225	133	245	Luxembourg (59)
Trading Across Borders (rank)	1	1	60	2	16	4	29	23	Singapore (1)
Documents to export (number)	4	4	8	4	3	3	6	6	France (2)
Time to export (days)	5	5	21	5	10	7	17	12	Hong Kong SAR, China (5)*
Cost to export (US\$ per container)	456	456	500	575	880	680	450	655	Malaysia (450)
Documents to import (number)	4	4	5	4	5	3	7	6	France (2)
Time to import (days)	4	4	24	5	11	7	14	12	Singapore (4)
Cost to import (US\$ per container)	439	439	545	565	970	695	435	720	Malaysia (435)
Enforcing Contracts (rank)	12	13	16	5	34	2	31	88	Luxembourg (1)

Indicator	Singapore DB2012	Singapore DB2011	China DB2012	Hong Kong SAR, China DB2012	Japan DB2012	Korea, Rep. DB2012	Malaysia DB2012	Taiwan, China DB2012	Best performer globally DB2012
Time (days)	150	150	406	280	360	230	425	510	Singapore (150)
Cost (% of claim)	25.8	25.8	11.1	21.2	32.2	10.3	27.5	17.7	Bhutan (0.1)
Procedures (number)	21	21	34	26	30	33	29	45	Ireland (21)*
Resolving Insolvency (rank)	2	2	75	16	1	13	47	14	Japan (1)
Time (years)	0.8	0.8	1.7	1.1	0.6	1.5	1.5	1.9	Ireland (0.4)
Cost (% of estate)	1	1	22	9	4	4	15	4	Singapore (1)*
Recovery rate (cents on the dollar)	91.3	91.3	36.1	81.2	92.7	82.3	44.6	82.1	Japan (92.7)

Note: The methodology for the paying taxes indicators changed in *Doing Business 2012*; see the data notes for details. For these indicators, the best performer globally is the economy that has implemented the most efficient practices in its tax system and is not necessarily the one with the highest ranking. For more information on “no practice” marks, see the data notes for details.

* Two or more economies share the top ranking on this indicator. A number shown in place of an economy’s name indicates the number of economies that share the top ranking on the indicator. For a list of these economies, see the *Doing Business* website (<http://www.doingbusiness.org>).

Source: *Doing Business* database.

STARTING A BUSINESS

Formal registration of companies has many immediate benefits for the companies and for business owners and employees. Legal entities can outlive their founders. Resources are pooled as several shareholders join forces to start a company. Formally registered companies have access to services and institutions from courts to banks as well as to new markets. And their employees can benefit from protections provided by the law. An additional benefit comes with limited liability companies. These limit the financial liability of company owners to their investments, so personal assets of the owners are not put at risk. Where governments make registration easy, more entrepreneurs start businesses in the formal sector, creating more good jobs and generating more revenue for the government.

What do the indicators cover?

Doing Business measures the ease of starting a business in an economy by recording all procedures that are officially required or commonly done in practice by an entrepreneur to start up and formally operate an industrial or commercial business—as well as the time and cost required to complete these procedures. It also records the paid-in minimum capital that companies must deposit before registration (or within 3 months). The ranking on the ease of starting a business is the simple average of the percentile rankings on the 4 component indicators: procedures, time, cost and paid-in minimum capital requirement.

To make the data comparable across economies, *Doing Business* uses several assumptions about the business and the procedures. It assumes that all information is readily available to the entrepreneur and that there has been no prior contact with officials. It also assumes that all government and nongovernment entities involved in the process function without corruption. And it assumes that the business:

- Is a limited liability company, located in the largest business city.
- Conducts general commercial or industrial activities.

WHAT THE STARTING A BUSINESS INDICATORS MEASURE

Procedures to legally start and operate a company (number)

- Preregistration (for example, name verification or reservation, notarization)
- Registration in the economy's largest business city
- Postregistration (for example, social security registration, company seal)

Time required to complete each procedure (calendar days)

- Does not include time spent gathering information
- Each procedure starts on a separate day
- Procedure completed once final document is received
- No prior contact with officials

Cost required to complete each procedure (% of income per capita)

- Official costs only, no bribes
- No professional fees unless services required by law

Paid-in minimum capital (% of income per capita)

- Deposited in a bank or with a notary before registration (or within 3 months)
- Has a start-up capital of 10 times income per capita.
- Has a turnover of at least 100 times income per capita.
- Does not qualify for any special benefits.
- Does not own real estate.
- Is 100% domestically owned.

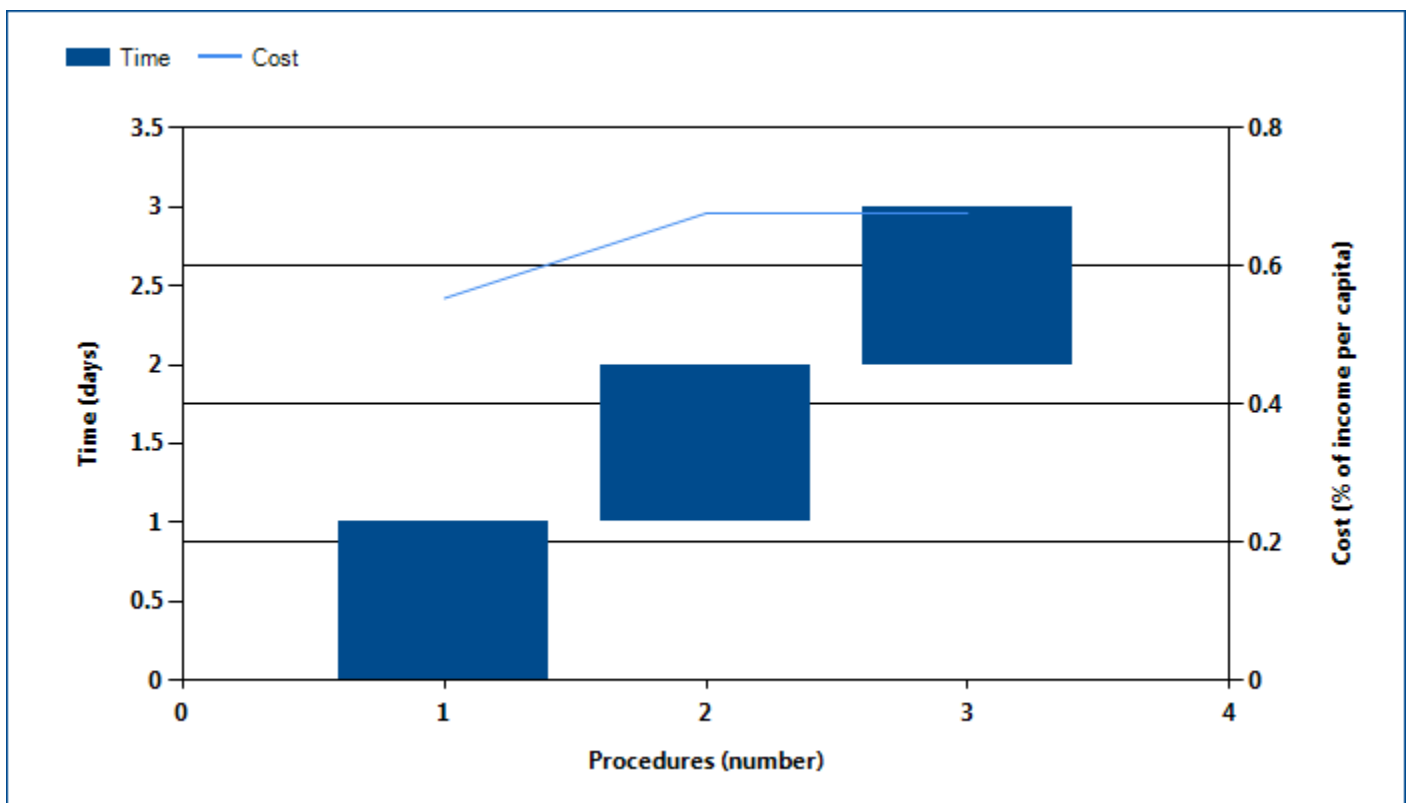
STARTING A BUSINESS

Where does the economy stand today?

What does it take to start a business in Singapore? According to data collected by *Doing Business*, starting a business there requires 3 procedures, takes 3 days,

costs 0.7% of income per capita and requires paid-in minimum capital of 0.0% of income per capita (figure 2.1).

Figure 2.1 What it takes to start a business in Singapore
Paid-in minimum capital (% of income per capita): 0.0



Note: For details on the procedures reflected here, see the summary at the end of this chapter.

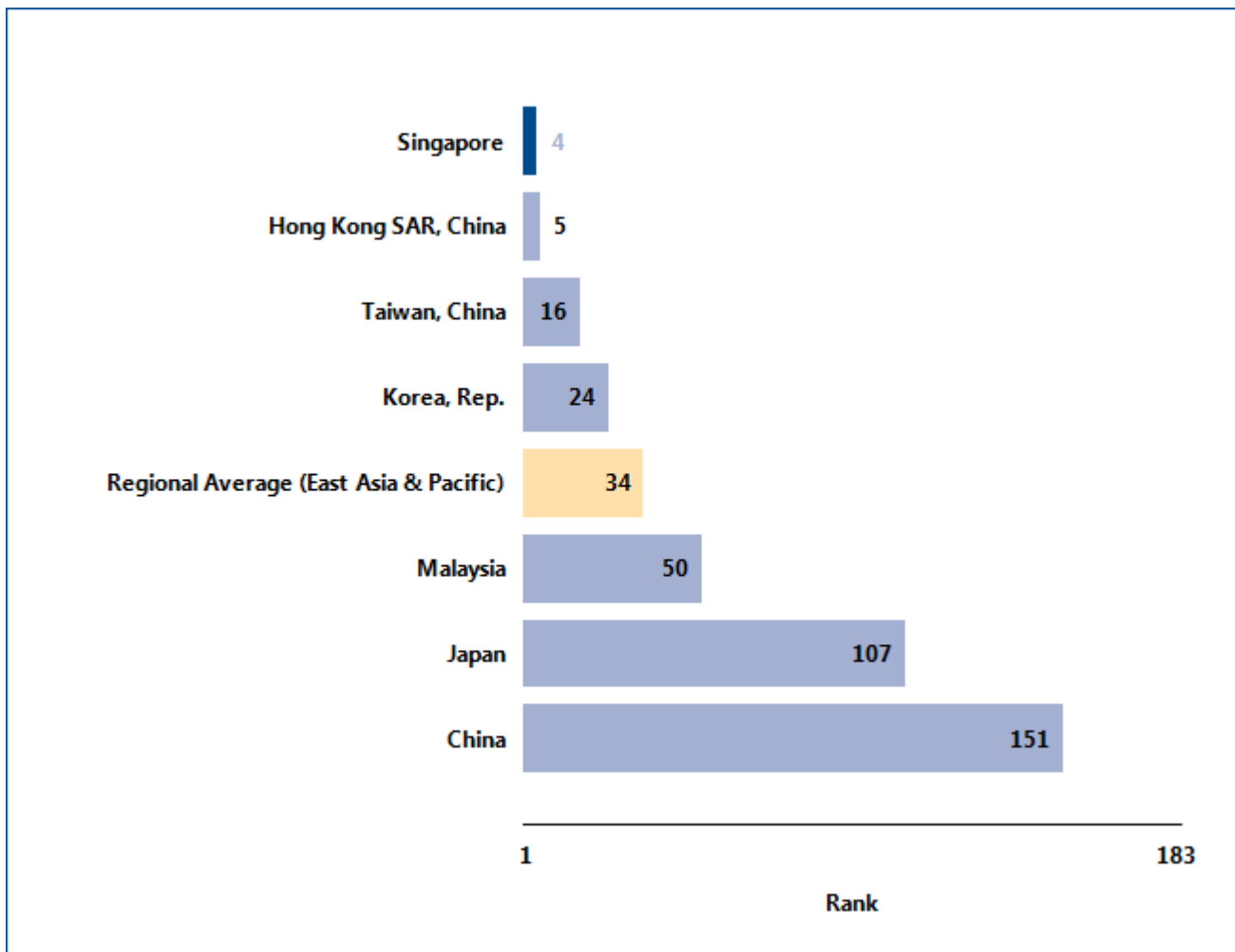
Source: *Doing Business* database.

STARTING A BUSINESS

Globally, Singapore stands at 4 in the ranking of 183 economies on the ease of starting a business (figure 2.2). The rankings for comparator economies and the

regional average ranking provide other useful information for assessing how easy it is for an entrepreneur in Singapore to start a business.

Figure 2.2 How Singapore and comparator economies rank on the ease of starting a business



Source: *Doing Business* database.

STARTING A BUSINESS

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to start a business in Singapore today, data over time show which aspects of the

process have changed—and which have not (table 2.1). That can help identify where the potential for improvement is greatest.

Table 2.1 The ease of starting a business in Singapore over time
By *Doing Business* report year

Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	..	..	4	4
Procedures (number)	7	7	6	6	5	4	3	3	3
Time (days)	8	8	6	6	5	4	3	3	3
Cost (% of income per capita)	1.0	1.0	0.9	0.8	0.8	0.7	0.7	0.7	0.7
Paid-in Min. Capital (% of income per capita)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: *Doing Business* database.

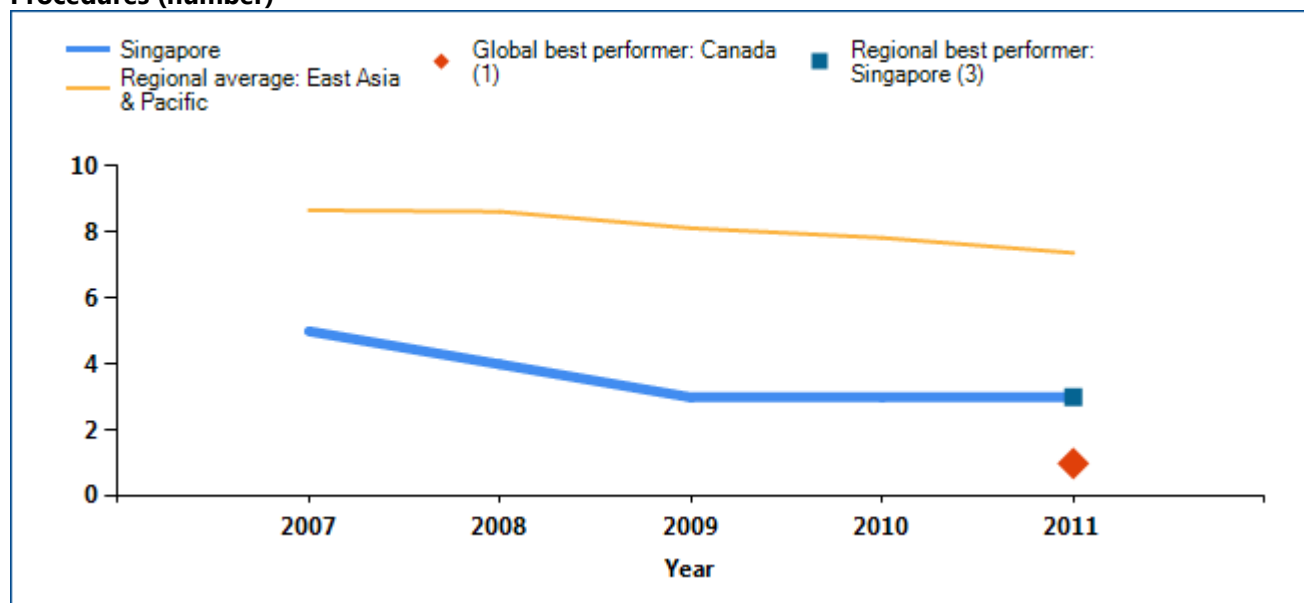
STARTING A BUSINESS

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time, cost or paid-in minimum capital required to start a business (figure 2.3). These economies may provide a model for

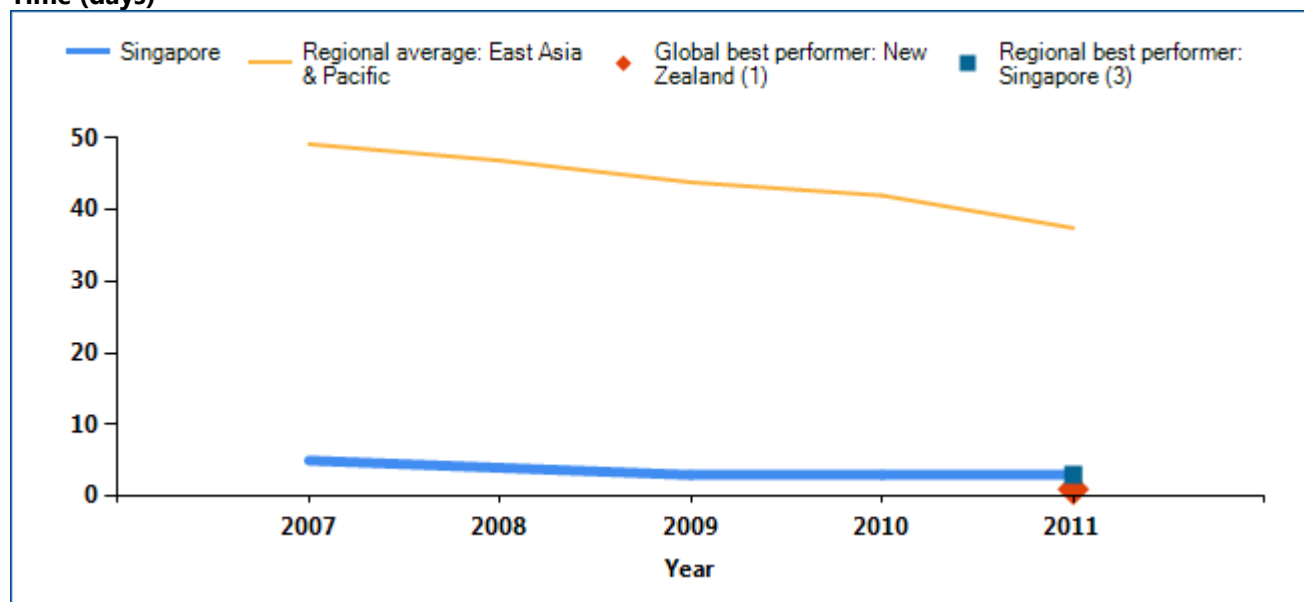
Singapore on ways to improve the ease of starting a business. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 2.3 Has starting a business become easier over time?

Procedures (number)

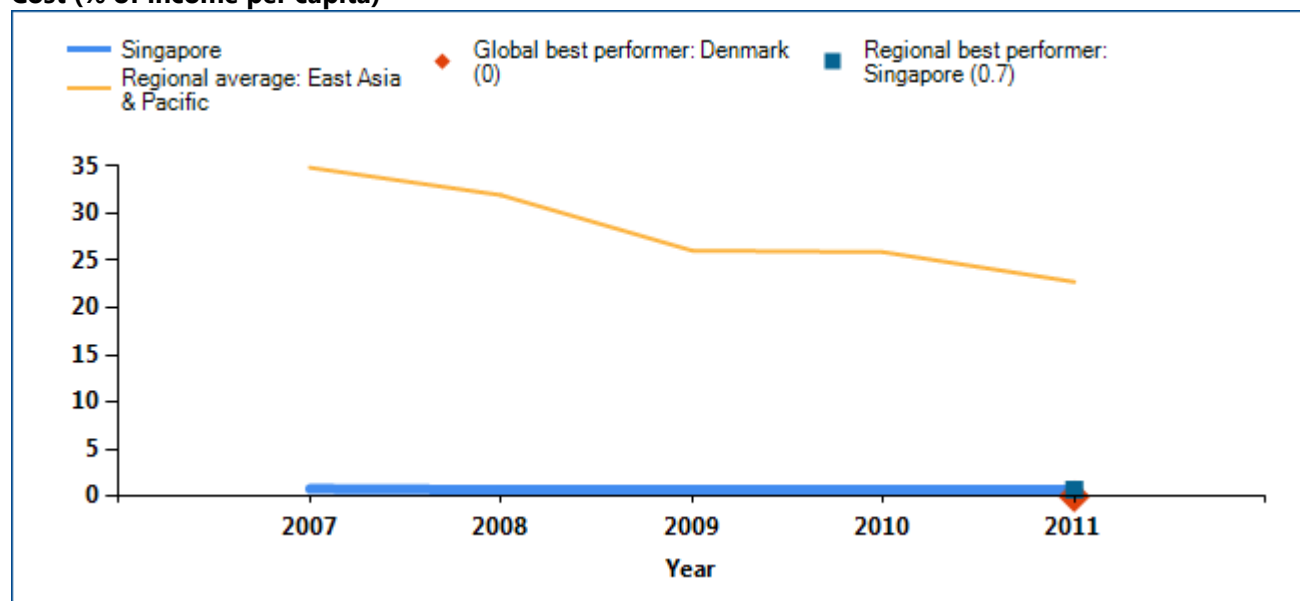


Time (days)

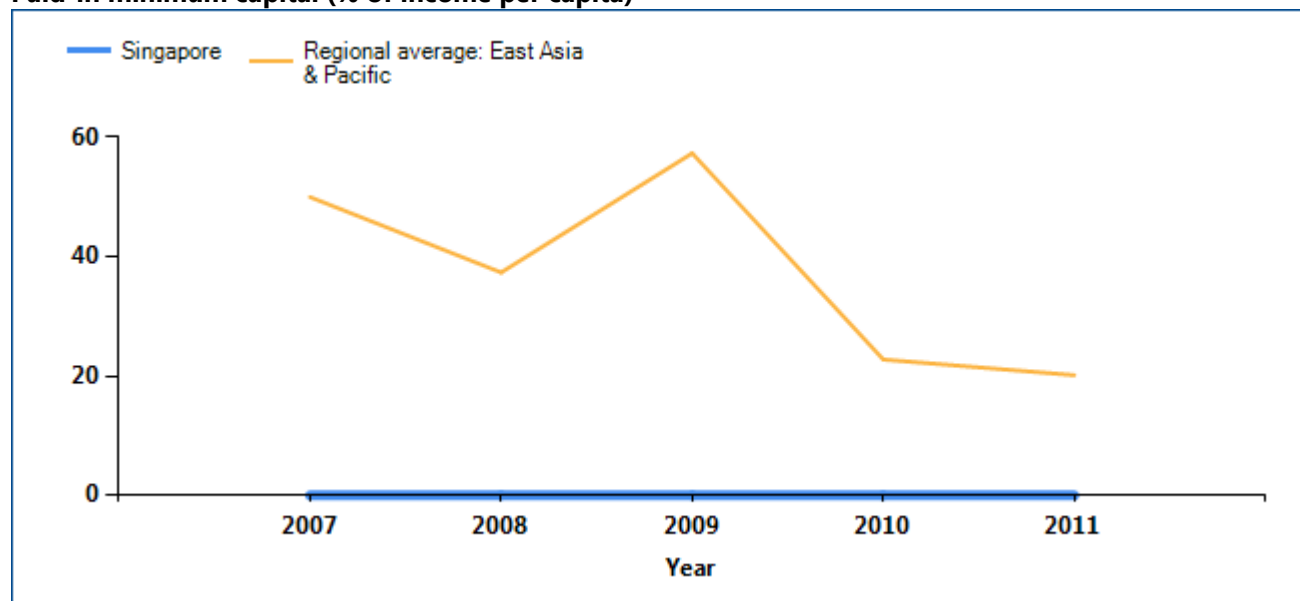


STARTING A BUSINESS

Cost (% of income per capita)



Paid-in minimum capital (% of income per capita)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator. In the case of paid-in minimum capital, 82 economies globally and 14 economies in East Asia & Pacific have no paid-in minimum capital.

Source: Doing Business database.

STARTING A BUSINESS

Economies around the world have taken steps making it easier to start a business—streamlining procedures by setting up a one-stop shop, making procedures simpler or faster by introducing technology and reducing or eliminating minimum capital requirements. Many have undertaken business registration reforms in stages—and they often are part of a larger regulatory reform program. Among the benefits have been

greater firm satisfaction and savings and more registered businesses, financial resources and job opportunities.

What business registration reforms has *Doing Business* recorded in Singapore (table 2.2)?

Table 2.2 How has Singapore made starting a business easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	Business start-up was simplified by making it possible to incorporate a company and register for taxes using the same online form.
DB2009	The online process for business start-up was simplified, cutting a procedure and reducing the time required by a day.

Note: For information on reforms in earlier years (back to DB2005), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

STARTING A BUSINESS

What are the details?

Underlying the indicators shown in this chapter for Singapore is a set of specific procedures—the bureaucratic and legal steps that an entrepreneur must complete to incorporate and register a new firm. These are identified by *Doing Business* through collaboration with relevant local professionals and the study of laws, regulations and publicly available information on business entry in that economy. Following is a detailed summary of those procedures, along with the associated time and cost. These procedures are those that apply to a company matching the standard assumptions (the “standardized company”) used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators measure).

STANDARDIZED COMPANY

City: Singapore

Legal Form: Private Limited Liability Company

Start-up capital: 10 times GNI per capita

Paid-in minimum capital (% of income per capita): 0.0

Summary of procedures for starting a business in Singapore—and the time and cost

No.	Procedure	Time to complete	Cost to complete
1	<p>Registration on-line with ACRA including company name search and filing the company incorporation and tax number (GST)</p> <p>The Registry Of Companies and Businesses (RCB) has merged with the Public Accountants Board Singapore (PAB) to form the Accounting and Corporate Regulatory Authority (ACRA). Incorporation is done through Bizfile, an electronic filing system. An application for the approval and reservation of a company name is to be submitted online via Bizfile. An application fee of S\$15.00 is payable for each approved company name. It can generally be completed within an hour after payment online. Once a name has been approved, it will be reserved for 60 days. A one-time application for the extension of the reservation period by a further 60 days can be made before the expiry date. The application fee for the extension is S\$10.00 per name.</p> <p>Entrepreneurs registering a new business can purchase the Business Profile on line at the same time of registration, when filling up the incorporation forms. The processing time is about 15 minutes from the time of successful submission of all documents and all information, and the registration fee payable is S\$300.00. The ACRA will issue a notice of incorporation via electronic mail to the law firm or professional firm engaged for the purposes of incorporation upon the successful incorporation of the company together with the registration number of the company.</p> <p>The registration with the Inland Revenue Authority of Singapore (IRAS) for the goods and services tax (GST) when (a) its annual taxable turnover exceeds SGD 1 million became possible while incorporating the company using the same online forms.</p>	1 day	SGD 315

No.	Procedure	Time to complete	Cost to complete
2	Make a company seal The company seal is generally obtained from third-party stationers. Generally a market rate of SGD35 will be charged if the seal is to be collected within 3 days or approximately SGD70 if the seal is to be collected within 1 day	1 day	SGD 70
3	Sign up for Work Injury Compensation Insurance at an insurance agency Time and cost may depend on the arrangement between the company and the insurance agency.	1 day	no charge

* Takes place simultaneously with another procedure.

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

Regulation of construction is critical to protect the public. But it needs to be efficient, to avoid excessive constraints on a sector that plays an important part in every economy. Where complying with building regulations is excessively costly in time and money, many builders opt out. They may pay bribes to pass inspections or simply build illegally, leading to hazardous construction that puts public safety at risk. Where compliance is simple, straightforward and inexpensive, everyone is better off.

What do the indicators cover?

Doing Business records the procedures, time and cost for a business to obtain all the necessary approvals to build a simple commercial warehouse in the economy's largest business city, connect it to basic utilities and register the property so that it can be used as collateral or transferred to another entity.

The ranking on the ease of dealing with construction permits is the simple average of the percentile rankings on its component indicators: procedures, time and cost.

To make the data comparable across economies, *Doing Business* uses several assumptions about the business and the warehouse, including the utility connections.

The business:

- Is a limited liability company operating in the construction business and located in the largest business city.
- Is domestically owned and operated.
- Has 60 builders and other employees.

The warehouse:

- Is a new construction (there was no previous construction on the land).
- Has complete architectural and technical plans prepared by a licensed architect.

WHAT THE DEALING WITH CONSTRUCTION PERMITS INDICATORS MEASURE

Procedures to legally build a warehouse (number)

Submitting all relevant documents and obtaining all necessary clearances, licenses, permits and certificates

Completing all required notifications and receiving all necessary inspections

Obtaining utility connections for water, sewerage and a fixed telephone line

Registering the warehouse after its completion (if required for use as collateral or for transfer of the warehouse)

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day

Procedure completed once final document is received

No prior contact with officials

Cost required to complete each procedure (% of income per capita)

Official costs only, no bribes

- Will be connected to water, sewerage (sewage system, septic tank or their equivalent) and a fixed telephone line. The connection to each utility network will be 10 meters (32 feet, 10 inches) long.
- Will be used for general storage, such as of books or stationery (not for goods requiring special conditions).
- Will take 30 weeks to construct (excluding all delays due to administrative and regulatory requirements).

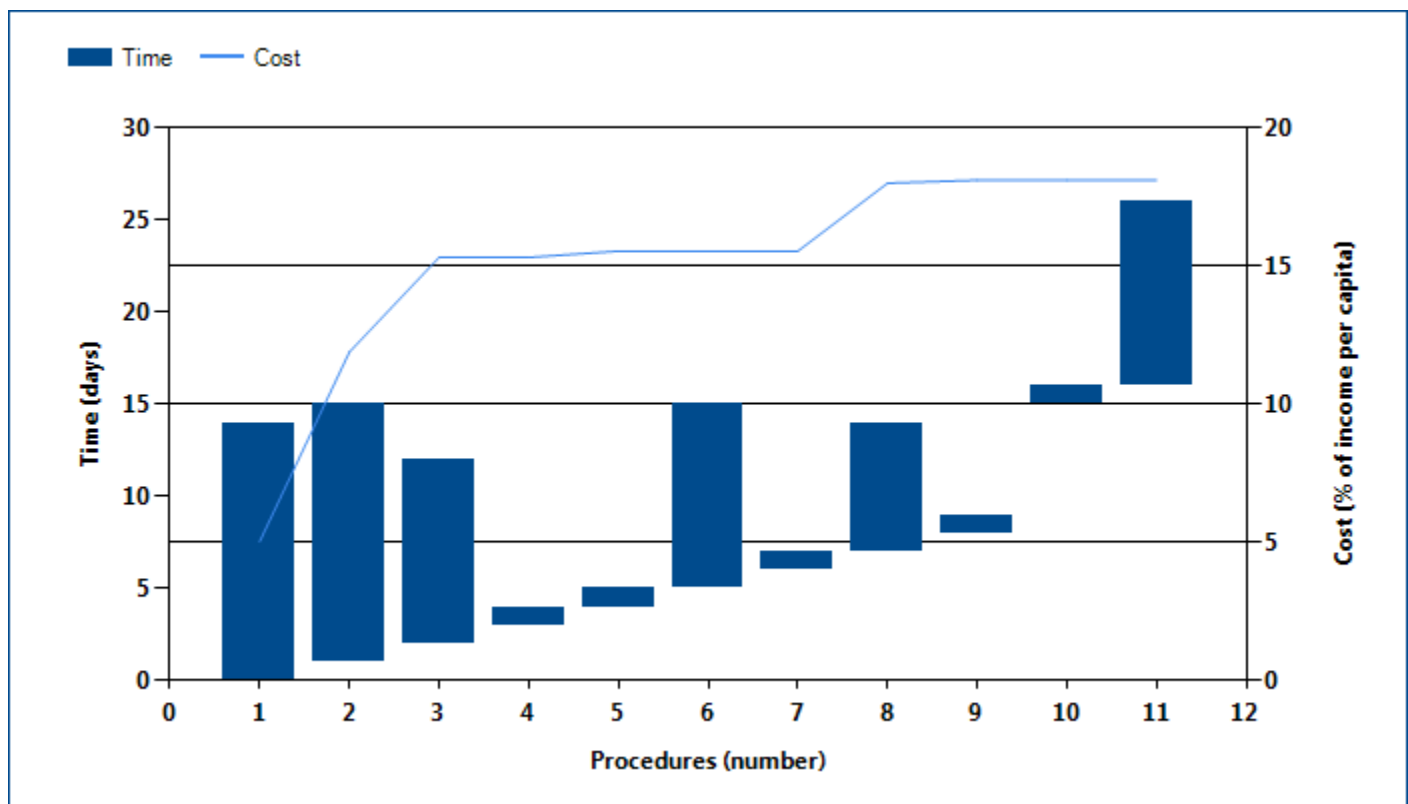
DEALING WITH CONSTRUCTION PERMITS

Where does the economy stand today?

What does it take to comply with the formalities to build a warehouse in Singapore? According to data collected by *Doing Business*, dealing with construction

permits there requires 11 procedures, takes 26 days and costs 18.1% of income per capita (figure 3.1).

Figure 3.1 What it takes to comply with formalities to build a warehouse in Singapore



Note: For details on the procedures reflected here, see the summary at the end of this chapter.

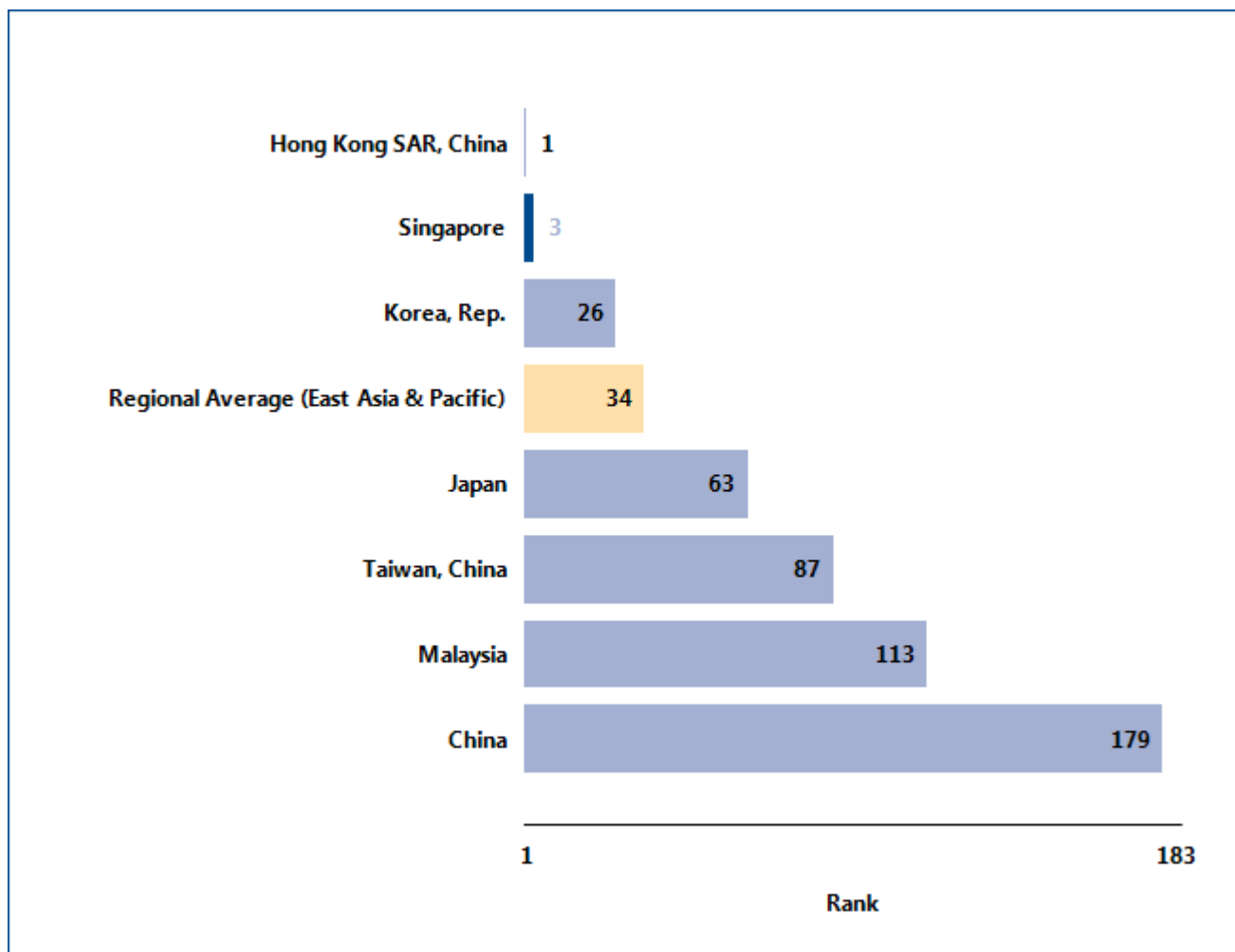
Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

Globally, Singapore stands at 3 in the ranking of 183 economies on the ease of dealing with construction permits (figure 3.2). The rankings for comparator economies and the regional average ranking provide

other useful information for assessing how easy it is for an entrepreneur in Singapore to legally build a warehouse.

Figure 3.2 How Singapore and comparator economies rank on the ease of dealing with construction permits



Source: Doing Business database.

DEALING WITH CONSTRUCTION PERMITS

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to deal with construction permits in Singapore today, data over time show which aspects

of the process have changed—and which have not (table 3.1). That can help identify where the potential for improvement is greatest.

Table 3.1 The ease of dealing with construction permits in Singapore over time
By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	3	3
Procedures (number)	11	11	11	11	11	11	11
Time (days)	102	102	102	38	33	26	26
Cost (% of income per capita)	23.1	21.1	22.9	21.2	19.9	19.7	18.1

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. For more information on “no practice” marks, see the data notes for details.

Source: *Doing Business* database.

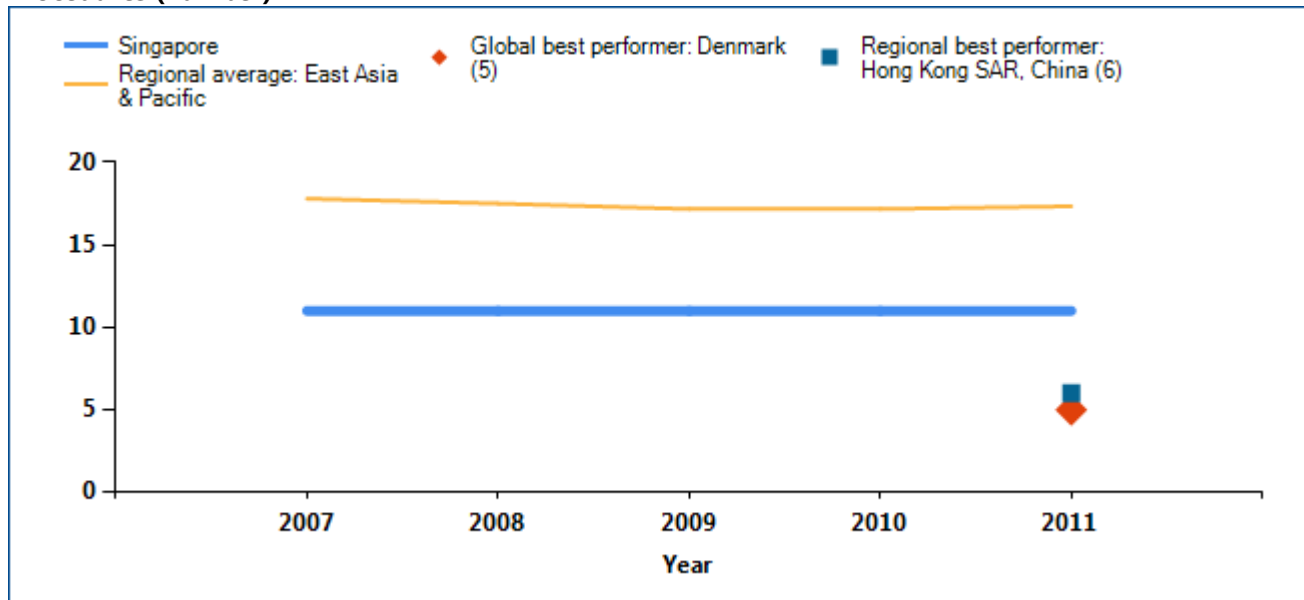
DEALING WITH CONSTRUCTION PERMITS

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time or cost required to deal with construction permits (figure 3.3). These economies may provide a model for Singapore

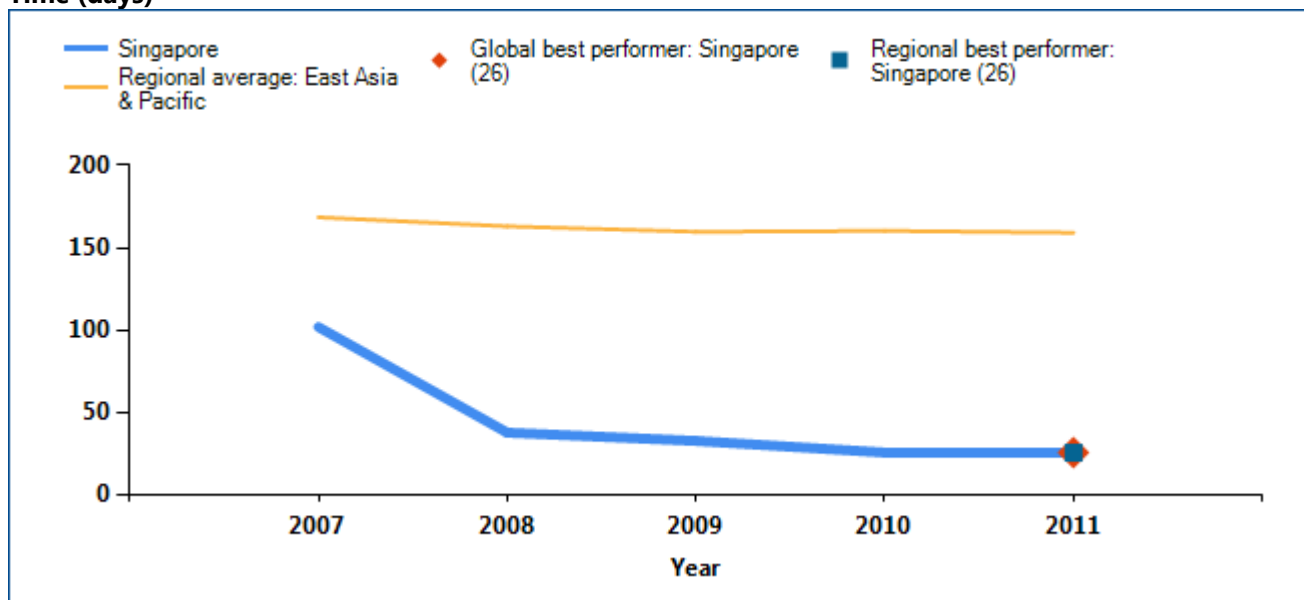
on ways to improve the ease of dealing with construction permits. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 3.3 Has dealing with construction permits become easier over time?

Procedures (number)

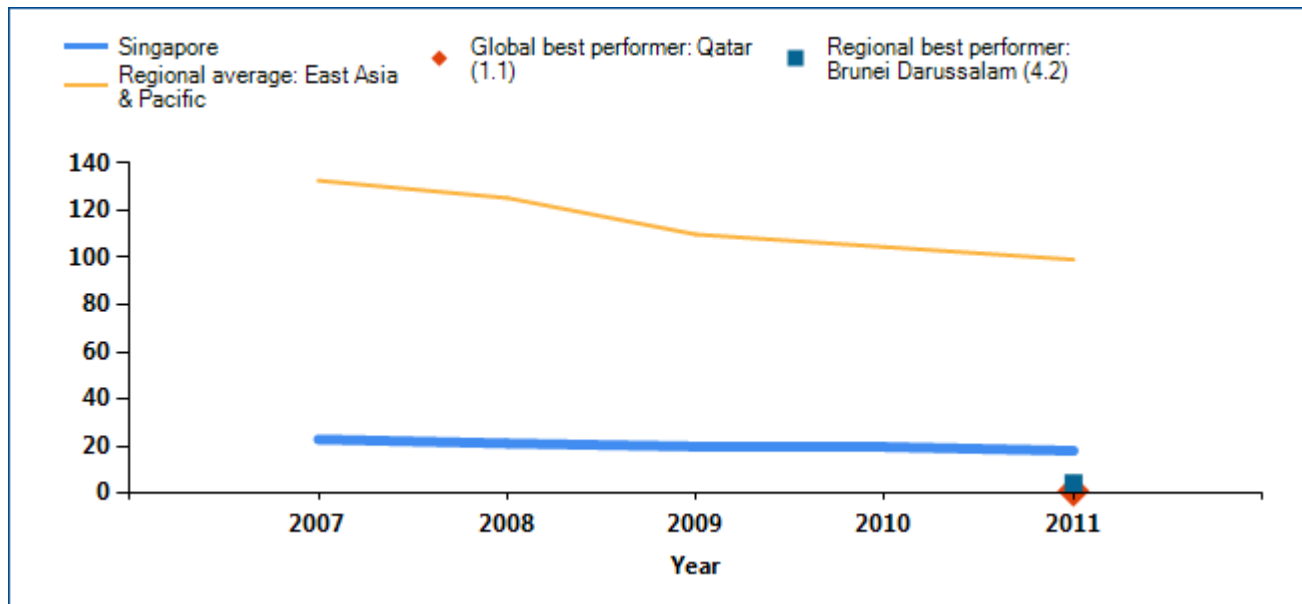


Time (days)



DEALING WITH CONSTRUCTION PERMITS

Cost (% of income per capita)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator. In cases where no data are displayed above for the economy, this indicates that the economy has received a “no practice” mark; see the data notes for details.

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

Smart regulation ensures that standards are met while making compliance easy and accessible to all. Coherent and transparent rules, efficient processes and adequate allocation of resources are especially important in sectors where safety is at stake. Construction is one of them. In an effort to ensure

building safety while keeping compliance costs reasonable, governments around the world have worked on consolidating permitting requirements. What construction permitting reforms has *Doing Business* recorded in Singapore (table 3.2)?

Table 3.2 How has Singapore made dealing with construction permits easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	Dealing with construction permits was made easier with new workplace safety and health regulations that allow low-risk industries to submit documents online.
DB2009	The process for dealing with construction permits was sped up, reducing the time to build a warehouse. Almost 99 percent of applications are now submitted electronically through the Construction and Real Estate Network (CORENET).

Note: For information on reforms in earlier years (back to DB2006), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

What are the details?

The indicators reported here for Singapore are based on a set of specific procedures—the steps that a company must complete to legally build a warehouse—identified by *Doing Business* through information collected from experts in construction licensing, including architects, construction lawyers, construction firms, utility service providers and public officials who deal with building regulations. These procedures are those that apply to a company and structure matching the standard assumptions used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover).

BUILDING A WAREHOUSE

City : Singapore

Estimated Warehouse Value : SGD 500,000

The procedures, along with the associated time and cost, are summarized below.

Summary of procedures for dealing with construction permits in Singapore —and the time and cost

No.	Procedure	Time to complete	Cost to complete
1	<p>Obtain written permission from the Urban Redevelopment Authority</p> <p>This application for permission from the Urban Redevelopment Authority (URA) can be done electronically by a Qualified Professional (QP) through the Electronic Development Applications. The company must submit a form, along with the following:</p> <ul style="list-style-type: none"> - Proposal and sketch plans, - Survey plans for sloping or undulating sites. <p>Companies can apply to URA via two schemes: normal and Plan Lodgment Scheme. Launched in 1995, the Plan Lodgment Scheme allows for projects that fulfill the qualifying criteria (see http://www.ura.gov.sg/dc/lodgment/dc-lodgment-hdb_jtc.htm) to be submitted and approved online immediately. The application is made either through JTC system or through URA's EDA system. The fees for a plan lodgment are SGD 800 plus 7% GST. The Plan Lodgment Scheme is applicable to industrial and warehouse development on land owned by JTC and the HDB, which forms about 90% of industrial land in Singapore. All Qualified Persons (i.e. Architects or Engineers) are allowed to submit their development proposals under the Plan Lodgment Scheme. There is no restriction on the size or type of the industrial developments or the QP's firms. In 2007, nearly 70% (562 out of 830) of the industrial and warehouse development proposals are eligible for approval under the Plan Lodgment Scheme. However, if the land is not under either JTC or Housing and Development Board (HDB is for residential developments) scheme, and under freehold ownership the application would go through a normal clearance process.</p> <p>Although the application submitted under the normal scheme itself</p>	14 days	SGD 2,868

No.	Procedure	Time to complete	Cost to complete
	<p>takes a day, it takes on average about 14 days for the URA to process it and grant permission. URA does not have a time-limit, but rather operates under a targeted threshold. According to that target 90% of cases must be cleared in 4 weeks. The written permission is valid for 2 years, during which time the work must be completed.</p> <p>The application fee for normal process is SGD 2,500 for the first 1,000 sq. m. and SGD 60 for each additional 100 sq. m. (plus 7% general service tax).</p> <p>The case considered here assumes a commercial warehouse for storing books, which would be classified as a Group 3 land-intensive development.</p> <p>A fee schedule is available at http://www.ura.gov.sg/forms/doc/dc-fee2007.pdf.</p>		
2	<p>* Obtain structural plan approval and building commencement permit</p> <p>Qualified Professionals submit the structural plans through CORENET system operated by the Building and Construction Authority (BCA). The permit will not be issued without the written or provisional permission from the Urban Redevelopment Authority (URA) and payment of any development charges, if applicable. Most of companies submit their application to URA and BCA for structural approval at the same time. They can time it in a way that the structural approval is granted a day after the URA issues planning permission. Construction work must commence within 24 months from the approval date.</p> <p>The structural plan approval can be granted along with building commencement permit that gives the right to physically begin the construction.</p> <p>Since 2008 the BCA runs a data management module in its application processing system to monitor its performance standard. It also introduced mobile phone short message & e-mail notification to inform the applicants on their applications status in an instantaneous manner.</p> <p>Since September 1, 2005, the fee schedule is as follows:</p> <ul style="list-style-type: none"> - SGD 300 per 100 sq. m. for the first 2,500 sq. m. of standard gross floor area (SGFA). - SGD 200 for each subsequent 100 sq. m. of SGFA. <p>Hence, in this case, the total fee charged for 1,300 sq. m. is 13 x SGD 300 = SGD 3,900.</p>	14 days	SGD 3,900
3	<p>* Obtain technical clearance from the Fire Safety & Shelter Department (FSSD) of the Singapore Civil Defence Force</p> <p>Qualified Professional, acting on behalf of BuildCo, submits the relevant parts of application to Fire Safety and Shelter Department (FSSD) of the Singapore Civil Defense Force. The application is made through CORENET system. Simultaneously, the applications can be submitted via CORENET to the National Environment Agency (NEA) for clearance</p>	10 days	SGD 1,950

No.	Procedure	Time to complete	Cost to complete
	<p>of sewerage/sanitary works, drainage works, pollution control matters and environmental health matters, as well as Land and Transport Authority (LTA) for road plans and parking facility clearance. In other cases, plans must be submitted to the Marine and Port Authority and the National Parks Board.</p> <p>Although, officially it takes only 2 working days to obtain approval from FSSD, the overall time required for approval from NEA and LTA would be close to 7 working days.</p> <p>The technical clearances can be completed while the written permission from URA is still pending.</p>		
4	<p>* Technical consultation with the Central Building Plans Unit of the Ministry of the Environment and Water Resources</p> <p>Qualified Professional obtains clearance from NEA on environmental building plan matters. The building plan for the warehouse development for storage of books is registered within 1 working day based on QP's declaration that the building plans are prepared in accordance with environmental codes.</p>	1 day	no charge
5	<p>* Technical consultation with the Land Transport Authority</p> <p>See comment on Procedure 2. Although no physical inspection is required the Qualified Professional will have to pay SGD 10/100 sqm for clearance of parking proposal. The payment can be made electronically.</p>	1 day	SGD 130
6	<p>* Obtain building plan approval</p> <p>Qualified Professionals can submit the architectural aspects of application along with structural plans through CORENET in a concurrent manner. The guidelines on this concurrent submission for structural plan approval and building plan application can be found in BCA website (http://www.bca.gov.sg/StructuralPlan/asp_16.html). In 2007, more than 56% of the 3,937 structural plans were submitted in parallel with the building permits.</p> <p>BCA has a target for building plan approval to be issued in 7 working days. This is in line with the recent effort to provide a faster and more efficient service. The applications are reviewed on random basis and can be cleared through interactions with Qualified Professionals. The system of random inspections is used to high quality of applications and drawings submitted by Qualified Professionals.</p>	10 days	no charge
7	<p>* Make an online declaration of risk management implementation and notify the Commissioner for Workplace Safety and Health</p> <p>Before November 2008 the Workplace Safety & Health (Registration of Factories) Regulations required all factories to be registered before they can commence operations. Registration was valid for up to two years. A SGD 540 annual fee was payable upon registration and renewal. The system did not differentiate lower risk factories from the rest.</p>	1 day	no charge

No.	Procedure	Time to complete	Cost to complete
	<p>From 1 November 2008, qualifying factories will only be required to do two things prior to the commencement of operations: Make an online declaration that they have implemented risk management in their factories, and notify the Commissioner for Workplace Safety and Health of their operations via the On-line Business Licensing System (OBLIS) at https://licences.business.gov.sg.</p> <p>The new scheme will apply to all factories except construction worksites, shipyards, metalworking companies, wafer fabrication, petrochemical, chemical and pharmaceutical plants. Qualifying factories are factories with lower risks of fatalities and accidents (as the one assumed by Doing Business). They will no longer be required to pay an annual registration fee nor are they required to renew their registration. To strengthen risk management (RM) requirements, these factories will now be required to make a declaration that they have implemented RM at their workplaces before work can commence.</p>		
8	<p>* Obtain water and sewage connection</p> <p>All three connections can be applied for through a one-stop service provided by Singapore Power (SP) Services, a privatized utilities operator. The existing infrastructure allows a new connection within one week. The connection is made at the same time when the inspection is made. Application for electrical power is to the Singapore Power; application for both portable and Newater water is to the Singapore Public Utilities Board; application for sewer connection is to the Sewerage Department of the Ministry of Environment & Water Resources.</p> <p>The cost of water connection depends on the consumption, amounts to SGD 3.5 per cubic meter, and should be at least SGD 300.</p>	7 days	SGD 1,400
9	<p>* Obtain phone connection</p> <p>Telephone connection can be acquired in one day.</p>	1 day	SGD 60
10	<p>Receive final inspection</p> <p>Once the warehouse construction is completed the Qualified Professional files a request for inspection to BCA through CORENET. BuildCo may request the inspection in advance, that is, before construction activities are completed. A registered inspector, hired by both the Building Control Authority (BCA) and BuildCo, inspects the completed warehouse. Independently but concurrently, Qualified Professional can submit a request to the FSSD for fire system approval. There is no physical interaction with the FSSD and the inspection is performed by the Qualified Professional. The Qualified Professional sends the report to FSSD. The approval from FSSD is then sent to BCA electronically through an internal network.</p>	1 day	no charge
11	<p>Obtain certificate of statutory completion</p> <p>BuildCo does not need to register the newly built warehouse after its completion.</p>	10 days	no charge

* Takes place simultaneously with another procedure.

Source: Doing Business database.

GETTING ELECTRICITY

Access to reliable and affordable electricity is vital for businesses. To counter weak electricity supply, many firms in developing economies have to rely on self-supply, often at a prohibitively high cost. Whether electricity is reliably available or not, the first step for a customer is always to gain access by obtaining a connection.

What do the indicators cover?

Doing Business records all procedures required for a local business to obtain a permanent electricity connection and supply for a standardized warehouse, as well as the time and cost to complete them. These procedures include applications and contracts with electricity utilities, clearances from other agencies and the external and final connection works. The ranking on the ease of getting electricity is the simple average of the percentile rankings on its component indicators: procedures, time and cost. To make the data comparable across economies, several assumptions are used.

The warehouse:

- Is located in the economy's largest business city, in an area where other warehouses are located.
- Is not in a special economic zone where the connection would be eligible for subsidization or faster service.
- Has road access. The connection works involve the crossing of a road or roads but are carried out on public land.
- Is a new construction being connected to electricity for the first time.
- Has 2 stories, both above ground, with a total surface of about 1,300.6 square meters (14,000 square feet), and is built on a plot of 929 square meters (10,000 square feet).

The electricity connection:

- Is a 3-phase, 4-wire Y, 140-kilovolt-ampere (kVA) (subscribed capacity) connection.

WHAT THE GETTING ELECTRICITY INDICATORS MEASURE

Procedures to obtain an electricity connection (number)

Submitting all relevant documents and obtaining all necessary clearances and permits

Completing all required notifications and receiving all necessary inspections

Obtaining external installation works and possibly purchasing material for these works

Concluding any necessary supply contract and obtaining final supply

Time required to complete each procedure (calendar days)

Is at least 1 calendar day

Each procedure starts on a separate day

Does not include time spent gathering information

Reflects the time spent in practice, with little follow-up and no prior contact with officials

Cost required to complete each procedure (% of income per capita)

Official costs only, no bribes

Excludes value added tax

- Is 150 meters long.
- Is to either the low-voltage or the medium-voltage distribution network and either overhead or underground, whichever is more common in the economy and in the area where the warehouse is located. The length of any connection in the customer's private domain is negligible.
- Involves installing one electricity meter. The monthly electricity consumption will be 0.07 gigawatt-hour (GWh). The internal electrical wiring has been completed.

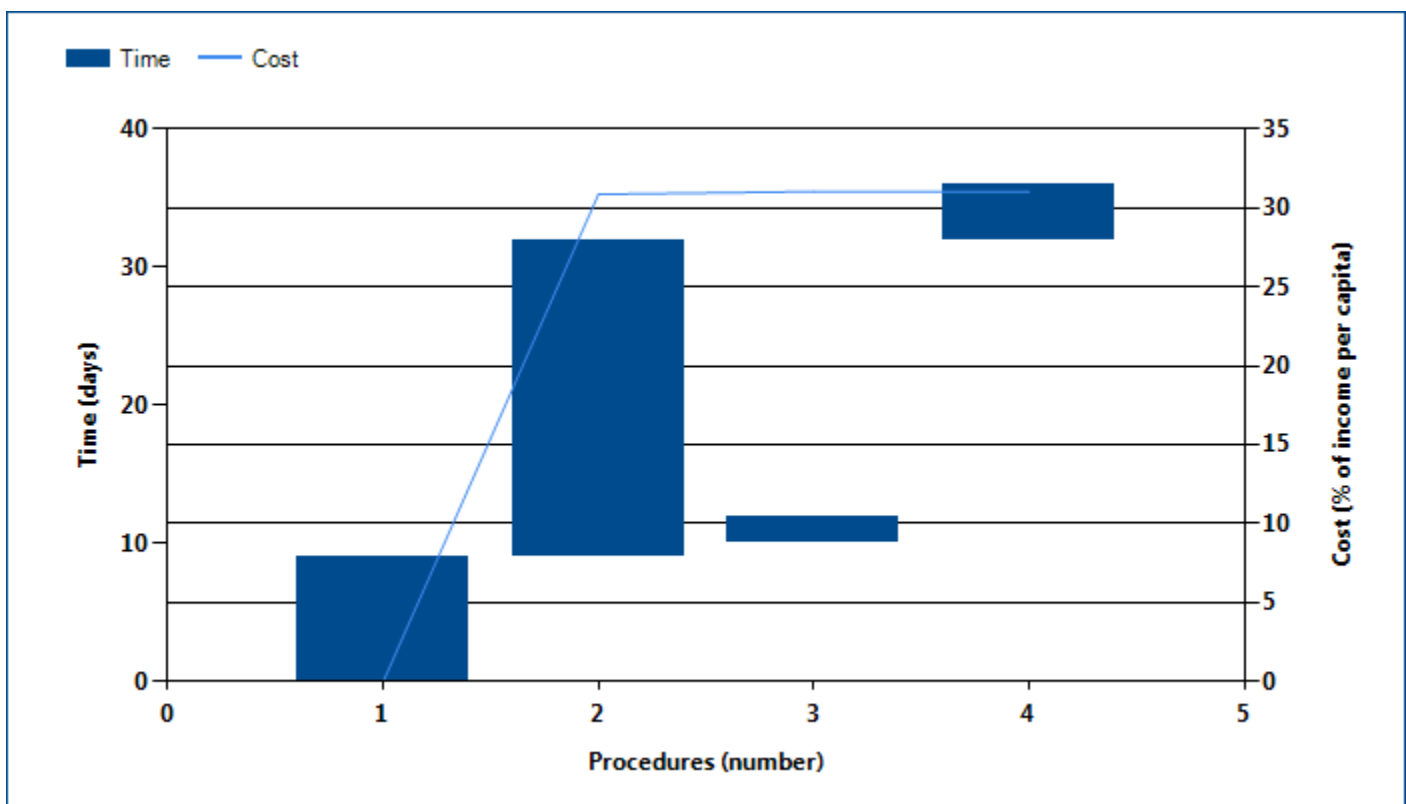
GETTING ELECTRICITY

Where does the economy stand today?

What does it take to obtain a new electricity connection in Singapore? According to data collected by *Doing Business*, getting electricity there requires 4

procedures, takes 36 days and costs 31.1% of income per capita (figure 4.1).

Figure 4.1 What it takes to obtain an electricity connection in Singapore



Note: For details on the procedures reflected here, see the summary at the end of this chapter.

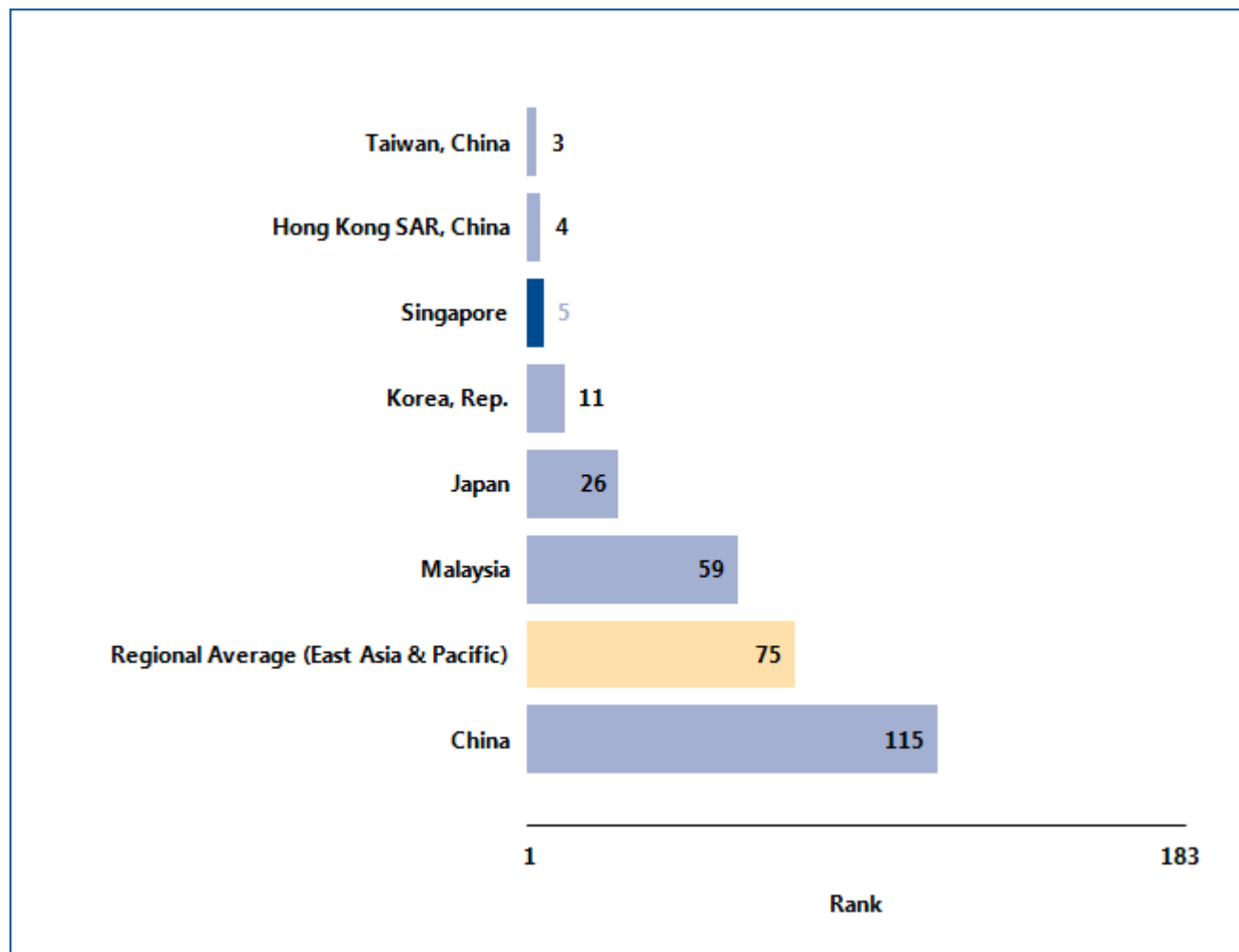
Source: *Doing Business* database.

GETTING ELECTRICITY

Globally, Singapore stands at 5 in the ranking of 183 economies on the ease of getting electricity (figure 4.2). The rankings for comparator economies and the

regional average ranking provide another perspective in assessing how easy it is for an entrepreneur in Singapore to connect a warehouse to electricity.

Figure 4.2 How Singapore and comparator economies rank on the ease of getting electricity



Source: *Doing Business* database.

GETTING ELECTRICITY

Even more helpful than rankings for other economies may be the indicators underlying those rankings (table 4.1). If obtaining a new electricity connection requires fewer procedures, less time or less cost in other

economies, the practices of their utilities may provide a model for Singapore on ways to improve the ease of getting electricity. Regional and global averages on these indicators may provide useful benchmarks.

Table 4.1 The ease of getting electricity in Singapore and comparator economies

Indicator	Singapore	China	Hong Kong SAR, China	Japan	Korea, Rep.	Malaysia	Taiwan, China	East Asia & Pacific average	Global average
Rank	5	115	4	26	11	59	3	75	..
Procedures (number)	4	5	4	3	4	6	4	5	5
Time (days)	36	145	43	117	49	51	23	88	111
Cost (% of income per capita)	31.1	640.9	1.7	0.0	38.6	95.5	52.4	1,079.4	1,942.3

Source: Doing Business database.

GETTING ELECTRICITY

What are the details?

The indicators reported here for Singapore are based on a set of specific procedures—the steps that an entrepreneur must complete to get a warehouse connected to electricity by the local distribution utility—identified by *Doing Business*. Data are collected from the distribution utility, then completed and verified by electricity regulatory agencies and independent professionals such as electrical engineers, electrical contractors and construction companies. The electricity distribution utility surveyed is the one serving the area (or areas) in which warehouses are located. If there is a choice of distribution utilities, the one serving the largest number of customers is selected.

OBTAINING AN ELECTRICITY CONNECTION

City: Singapore

Name of Utility: SP PowerGrid Ltd.

The procedures are those that apply to a warehouse and electricity connection matching the standard assumptions used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover). The procedures, along with the associated time and cost, are summarized below.

Summary of procedures for getting electricity in Singapore—and the time and cost

No.	Procedure	Time to complete	Cost to complete
1	<p>The client's Licensed Electrical Worker (LEW) submits application to SP Services Ltd and awaits quotation of connection fees</p> <p>The customer has to engage and appoint an Electrical Worker licensed (LEW) with the Energy Market Authority (EMA) to design the internal electrical installation, a LEW for the electrical installation works, and a LEW to operate on the installation. The client however, can appoint the same LEW for all three duties.</p> <p>The licensed electrical worker acts as the client's agent for the connection to the grid system.</p> <p>There are three classes of LEW, namely licensed electrician (load < 45kVA), licensed electrical technician (load design < 150kVA) and licensed electrical engineer (no limit on load). Based on the case study's electrical load of 140kVA, the customer needs to appoint either a licensed electrical technician or licensed electrical engineer.</p> <p>SP Services Ltd serves as a one-stop customer centre for electricity connections. SP Services Ltd receives electricity supply applications, receives payment of connection fee, opens electricity account and makes turn-on appointment with the customer.</p> <p>The appointed LEW submits an application to SP Services Ltd to connect to the grid system, along with 2 copies of the site plan. SP Services Ltd advises the appointed LEW and the client on the approval of the application and provides them with a quotation within 7 calendar days for premises receiving direct service connection from streets mains.</p>	9 calendar days	no charge

No.	Procedure	Time to complete	Cost to complete
	Direct service connection from SP PowerGrid's LV network to the client's installation is available for a small load requirement not exceeding 280kVA (400A) in commercial or industrial areas.		
2	<p>The client opens an electricity account, makes connection fee payment to SP Services Ltd and receives external works from SP PowerGrid Ltd</p> <p>The customer's appointed LEW only liases with one single external party which is SP Services Ltd for opening of account and making payment of connection fee which are done on the same day and same place. External work from SP PowerGrid Ltd commences automatically upon payment of connection fee. No further action is required from the customer.</p> <p>The documents required for opening of account are:</p> <ul style="list-style-type: none"> - Completed and signed application form; - Copy of business/company registration certificate; - Copy of NRIC/FIN (National Registration Identity Card/Foregin Identification Number) for the authorised signatory of company representative or a letter of authorisation issued by the company indicating the company representative's name and NRIC/FIN, proof of ownership or tenancy agreement; - Letter form the Authority (Inland Revenue Authority of Singapore) confirming the official address of the premises; and - Initial security deposit in cash (which is refundable when the customer terminates the account) or by the form of Banker Gaurantee (BG) at the point of application. <p>For the warehouse, direct connection is applicable as the applied load is 140kVA.</p> <p>Upon receipt of connection fee payment by SP Services Ltd, SP PowerGrid Ltd will commence work and inform the appointed LEW and the client of the completion.</p> <p>The service provided is underground. Thus, an excavation permit is needed before SP PowerGrid Ltd can start laying cables. For pragmatic reasons, SP PowerGrid will only apply for the permit after the client has made the connection fee payment and had their intake point ready for connection.</p>	23 calendar days	SGD 17,566.1
3	<p>* The appointed Licensed Electrical Worker (LEW) submits and obtains an electrical installation licence from the Energy Market Authority (EMA) on behalf of the customer</p> <p>The appointed licensed electrical worker (LEW) submits and obtains an electrical installation license from the Energy Market Authority (EMA) on behalf of the customer.</p> <p>For safety reasons, an electrical installation licence issued by EMA is required for the use or operation of an electrical installation with an approved load exceeding 45kVA in a non-domestic premises.</p>	2 calendar days	SGD 100.0

No.	Procedure	Time to complete	Cost to complete
	<p>The customer has to engage and appoint a LEW who will inspect and certify fitness of the electrical installation. Thereafter the LEW will submit an application for the electrical installation license online through the EMA's ELISE portal at www.ema.gov.sg. The license fee of SGD100/= (for a 12-month licence) is to be paid online together with the application. The EMA will check the completeness of the application before issuing the electrical installation license.</p> <p>Application for license may be submitted well in advance of the electricity supply connection date. The LEW may also arrange for the license commencement date to coincide with the electricity supply connection date.</p> <p>Upon approval of the license application, connection of electricity supply can be made anytime when the customer's switchgear and service cable are ready.</p>		
4	<p>The appointed Licensed Electrical Worker (LEW) submits a turn-on appointment application to SP Services Ltd</p> <p>The documents required for turn-on appointment are:</p> <ul style="list-style-type: none"> - Certificate of Compliance (COC) issued by the appointed LEW certifying that the (internal) electrical work is conforming to the requirements of the Electricity Regulations and the relevant Singapore Standard Code of Practice; and - A copy of valid electrical installation licence obtained from the Energy Market Authority (EMA). <p>SP Services Ltd process the turn-on appointment application received from the LEW and issues an appointment letter to the LEW for the energisation of the service connection. SP Services Ltd will inform SP PowerGrid Ltd to fix the revenue meter and the date scheduled for the energisation of the service connection.</p> <p>SP PowerGrid Ltd carries out the fixing of revenue meter one day before the appointment date and energises the service connection on the scheduled appointment date.</p>	4 calendar days	no charge

* Takes place simultaneously with another procedure.

Source: *Doing Business* database.

REGISTERING PROPERTY

Ensuring formal property rights is fundamental. Effective administration of land is part of that. If formal property transfer is too costly or complicated, formal titles might go informal again. And where property is informal or poorly administered, it has little chance of being accepted as collateral for loans—limiting access to finance.

What do the indicators cover?

Doing Business records the full sequence of procedures necessary for a business to purchase property from another business and transfer the property title to the buyer's name. The transaction is considered complete when it is opposable to third parties and when the buyer can use the property, use it as collateral for a bank loan or resell it. The ranking on the ease of registering property is the simple average of the percentile rankings on its component indicators: procedures, time and cost.

To make the data comparable across economies, several assumptions about the parties to the transaction, the property and the procedures are used.

The parties (buyer and seller):

- Are limited liability companies, 100% domestically and privately owned.
- Are located in the periurban area of the economy's largest business city.
- Have 50 employees each, all of whom are nationals.
- Perform general commercial activities.

The property (fully owned by the seller):

- Has a value of 50 times income per capita. The sale price equals the value.
- Is registered in the land registry or cadastre, or both, and is free of title disputes.
- Is located in a periurban commercial zone, and no rezoning is required.

WHAT THE REGISTERING PROPERTY INDICATORS MEASURE

Procedures to legally transfer title on immovable property (number)

Preregistration (for example, checking for liens, notarizing sales agreement, paying property transfer taxes)

Registration in the economy's largest business city

Postregistration (for example, filing title with the municipality)

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day

Procedure completed once final document is received

No prior contact with officials

Cost required to complete each procedure (% of property value)

Official costs only, no bribes

No value added or capital gains taxes included

- Has no mortgages attached and has been under the same ownership for the past 10 years.
- Consists of 557.4 square meters (6,000 square feet) of land and a 10-year-old, 2-story warehouse of 929 square meters (10,000 square feet). The warehouse is in good condition and complies with all safety standards, building codes and legal requirements. The property will be transferred in its entirety.

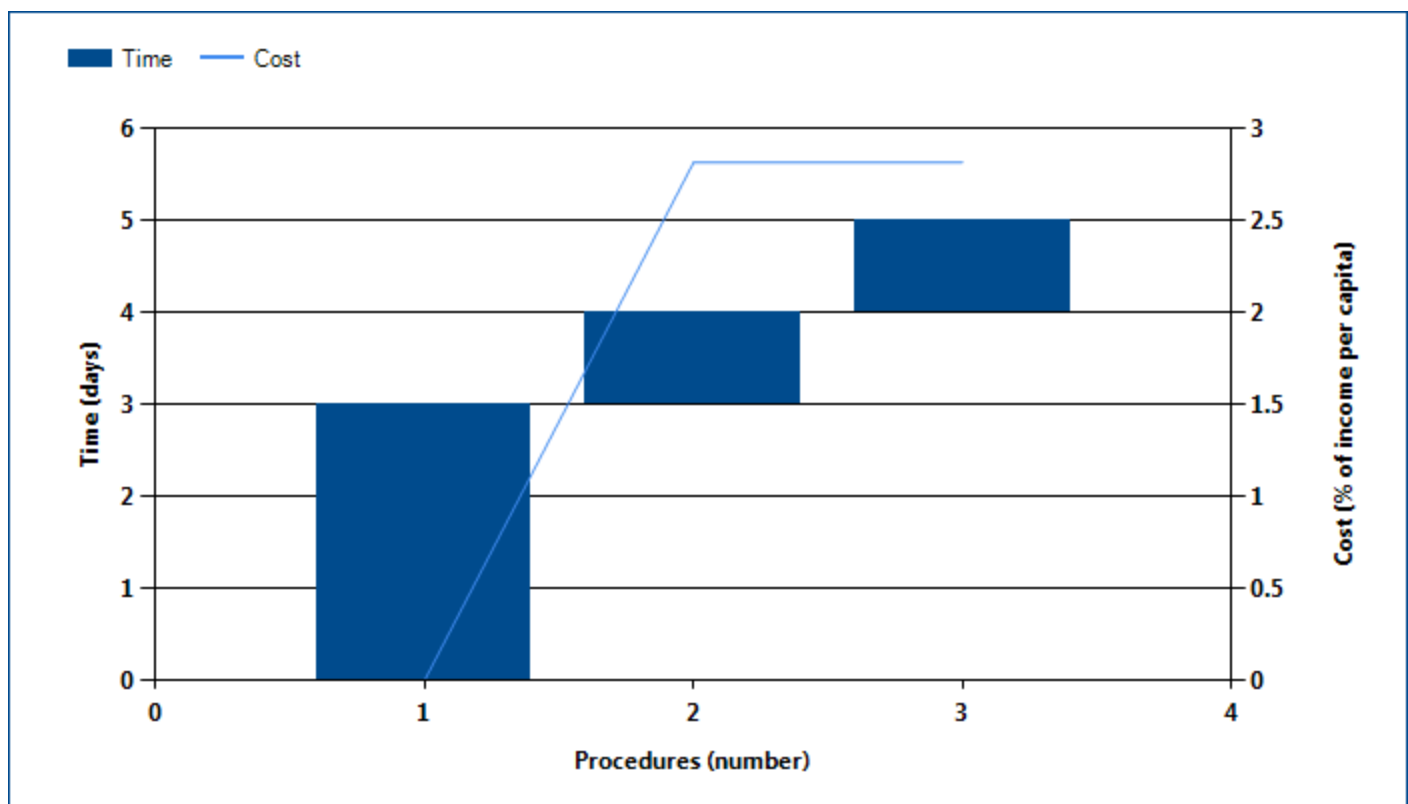
REGISTERING PROPERTY

Where does the economy stand today?

What does it take to complete a property transfer in Singapore? According to data collected by *Doing Business*, registering property there requires 3

procedures, takes 5 days and costs 2.8% of the property value (figure 5.1).

Figure 5.1 What it takes to register property in Singapore



Note: For details on the procedures reflected here, see the summary at the end of this chapter.

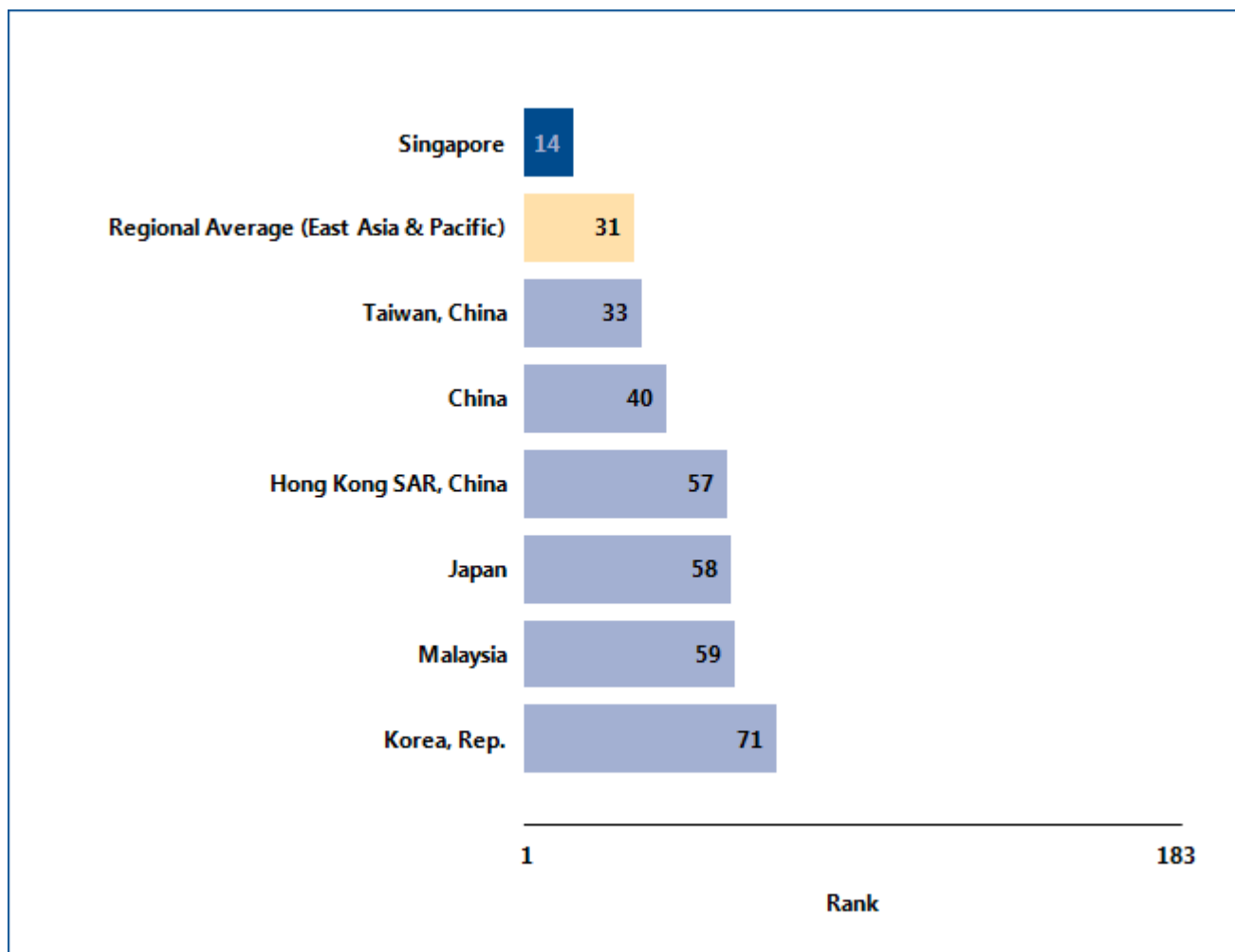
Source: *Doing Business* database.

REGISTERING PROPERTY

Globally, Singapore stands at 14 in the ranking of 183 economies on the ease of registering property (figure 5.2). The rankings for comparator economies and the

regional average ranking provide other useful information for assessing how easy it is for an entrepreneur in Singapore to transfer property.

Figure 5.2 How Singapore and comparator economies rank on the ease of registering property



Source: *Doing Business* database.

REGISTERING PROPERTY

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to register property in Singapore today, data over time show which aspects of the process have changed—and which have not (table 5.1). That can help identify where the potential for improvement is greatest.

Table 5.1 The ease of registering property in Singapore over time
By *Doing Business* report year

Indicator	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	..	15	14
Procedures (number)	3	3	3	3	3	3	3	3
Time (days)	9	9	9	9	9	5	5	5
Cost (% of property value)	2.7	2.8	2.8	2.8	2.8	2.8	2.8	2.8

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. For more information on “no practice” marks, see the data notes for details.

Source: *Doing Business* database.

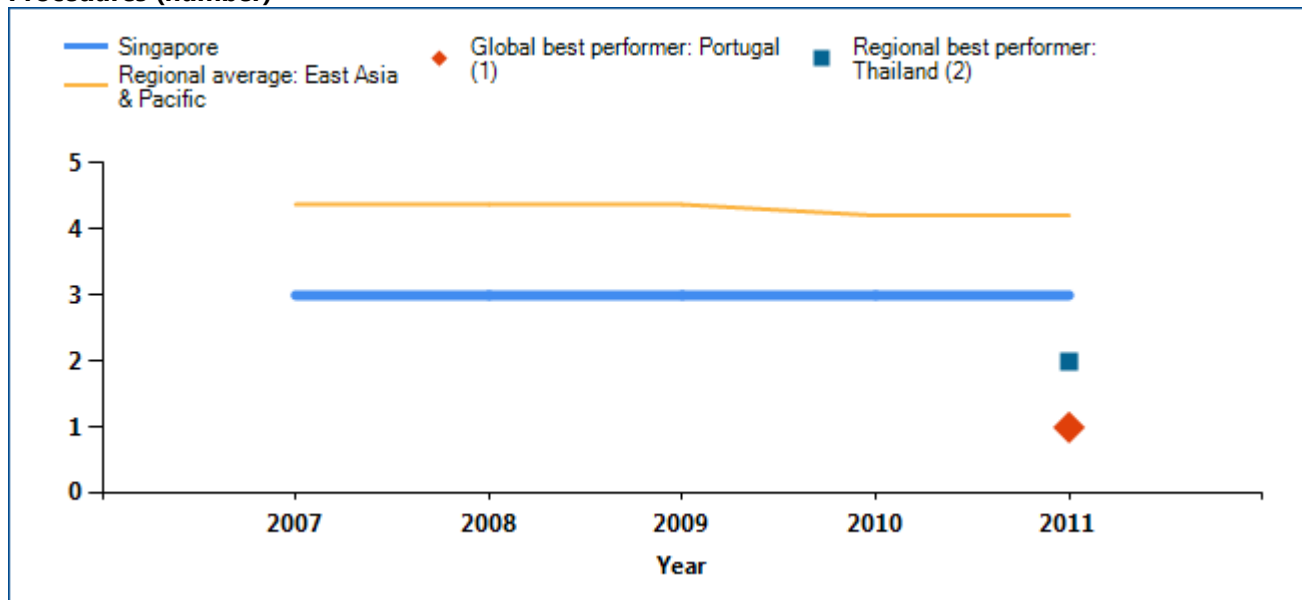
REGISTERING PROPERTY

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time or cost required to complete a property transfer (figure 5.3). These economies may provide a model for Singapore

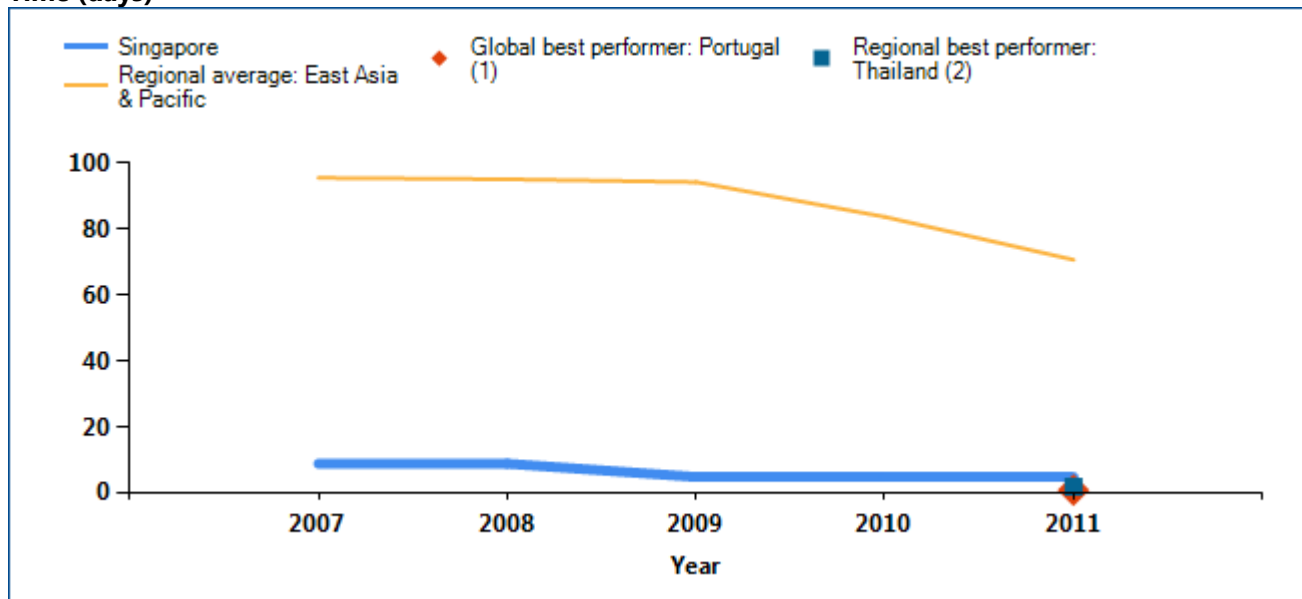
on ways to improve the ease of registering property. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 5.3 Has registering property become easier over time?

Procedures (number)

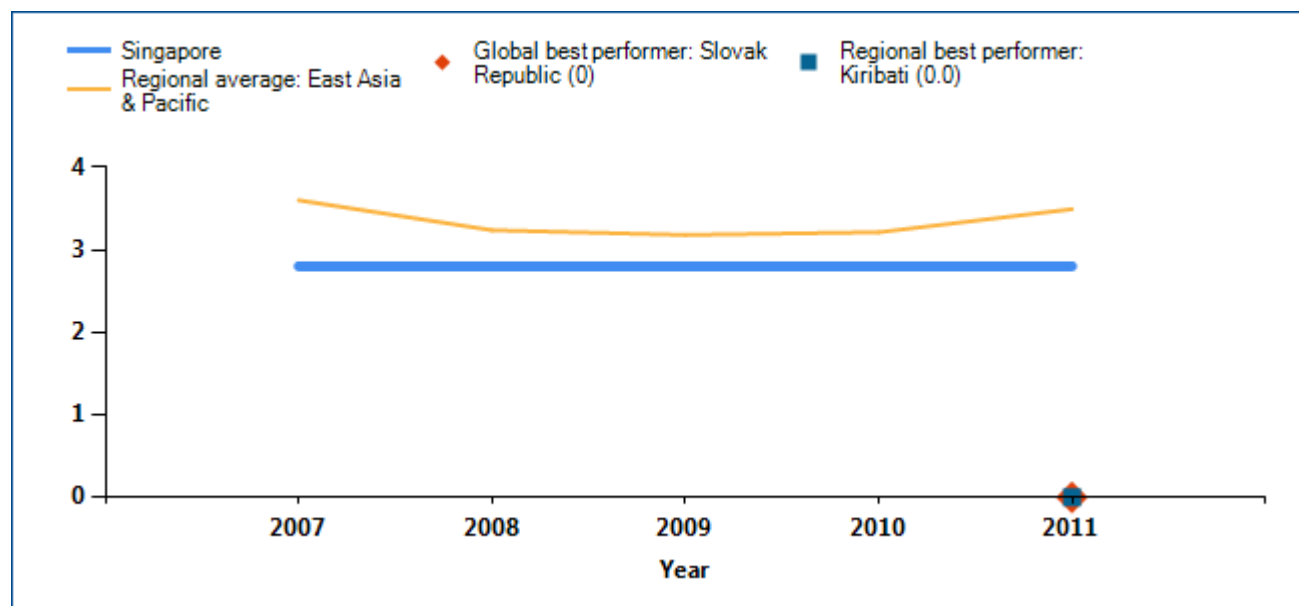


Time (days)



REGISTERING PROPERTY

Cost (% of property value)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator. In cases where no data are displayed above for the economy, this indicates that the economy has received a “no practice” mark; see the data notes for details.

Source: *Doing Business* database.

REGISTERING PROPERTY

Economies worldwide have been making it easier for entrepreneurs to register and transfer property—such as by computerizing land registries, introducing time limits for procedures and setting low fixed fees. Many

have cut the time required substantially—enabling buyers to use or mortgage their property earlier. What property registration reforms has *Doing Business* recorded in Singapore (table 5.2)?

Table 5.2 How has Singapore made registering property easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	Property registration was eased by improving its computerized system.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2005), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

REGISTERING PROPERTY

What are the details?

The indicators reported here are based on a set of specific procedures—the steps that a buyer and seller must complete to transfer the property to the buyer's name—identified by *Doing Business* through information collected from local property lawyers, notaries and property registries. These procedures are those that apply to a transaction matching the standard assumptions used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover).

STANDARD PROPERTY TRANSFER

City: Singapore
Property Value: 2,844,493.5

The procedures, along with the associated time and cost, are summarized below.

Summary of procedures for registering property in Singapore—and the time and cost

No.	Procedure	Time to complete	Cost to complete
1	<p>Pay taxes</p> <p>Due diligence checks at several agencies can be done on-line through a one-stop portal called 'Intereq' (www.starsinfo.com.sg). They include:</p> <ul style="list-style-type: none"> • Inland Revenue Authority of Singapore (for Property Tax) • Land Transport Authority (with respect to Rapid Transit System and Street Works on as to whether property is affected by Public Transport projects) • National Environment Agency (Environmental Health Department and Pollution Control Department on whether the property is affected by public sewerage or environmental-health related projects) • Public Utilities Board (on whether the property is affected by public utilities projects) • Urban Redevelopment Authority (planning regulations). <p>A land register check at the Singapore Land Authority can be made online too at www.inlis.gov.sg.</p> <p>A bankruptcy check is conducted online at www.lawnet.com.sg in order to ascertain if the seller is affected by winding up actions.</p> <p>A company search (for the seller's company) is also conducted online through www.lawnet.com.sg.</p> <p>Finally, the stamp duty can be paid via online transfer at www.estamp.iras.gov.sg.</p> <p>Once the necessary legal requisition has established that the title of the property is in order, a deposit for the property is paid. Thereafter, pursuant to Section 117 of the Land Titles Act, Chapter 157, a caveat should be lodged with SLA, once a deposit has been paid. The caveat serves as a precautionary step taken by the caveat or pending completion of his transaction as well as a notice to others that the caveator has an interest in the property. The caveat can be lodged online</p>	3 days	<p>* Legal Requisition Fees (for transaction through the portal www.starsinfo.com.sg)</p> <p>- Inland Revenue Authority of Singapore: SGD43.93 + SGD3.07GST = SGD47</p> <p>- Land Transport Authority : SGD10.50 +SDG0.74 GST = SGD11.24</p> <p>- Ministry o</p>

No.	Procedure	Time to complete	Cost to complete
	<p>via its online registration system called STARS E-Lodgment at www.starsinfo.com.sg</p> <p>The cost of lodging this Caveat Prior Completion is S\$ 64.45</p> <p>Once lodged, a caveat notice will usually be served on the owner of the property.</p>		
2	<p>Registration of new title</p> <p>Transfer can be lodged online through SLA's Singapore Titles Automated Registration System portal www.stars.gov.sg</p>	1 (to 4 days)	SGD 68.30

* Takes place simultaneously with another procedure.

Source: *Doing Business* database.

GETTING CREDIT

Two types of frameworks can facilitate access to credit and improve its allocation: credit information systems and the legal rights of borrowers and lenders in collateral and bankruptcy laws. Credit information systems enable lenders to view a potential borrower's financial history (positive or negative)—valuable information to consider when assessing risk. And they permit borrowers to establish a good credit history that will allow easier access to credit. Sound collateral laws enable businesses to use their assets, especially movable property, as security to generate capital—while strong creditors' rights have been associated with higher ratios of private sector credit to GDP.

What do the indicators cover?

Doing Business assesses the sharing of credit information and the legal rights of borrowers and lenders with respect to secured transactions through 2 sets of indicators. The depth of credit information index measures rules and practices affecting the coverage, scope and accessibility of credit information available through a public credit registry or a private credit bureau. The strength of legal rights index measures the degree to which collateral and bankruptcy laws protect the rights of borrowers and lenders and thus facilitate lending. *Doing Business* uses case scenarios to determine the scope of the secured transactions system, involving a secured borrower and a secured lender and examining legal restrictions on the use of movable collateral. These scenarios assume that the borrower:

- Is a private, limited liability company.
- Has its headquarters and only base of operations in the largest business city.

WHAT THE GETTING CREDIT INDICATORS MEASURE

Strength of legal rights index (0–10)

Protection of rights of borrowers and lenders through collateral laws

Protection of secured creditors' rights through bankruptcy laws

Depth of credit information index (0–6)

Scope and accessibility of credit information distributed by public credit registries and private credit bureaus

Public credit registry coverage (% of adults)

Number of individuals and firms listed in public credit registry as percentage of adult population

Private credit bureau coverage (% of adults)

Number of individuals and firms listed in largest private credit bureau as percentage of adult population

- Has 100 employees.
- Is 100% domestically owned, as is the lender.

The ranking on the ease of getting credit is based on the percentile rankings on its component indicators: the depth of credit information index (weighted at 37.5%) and the strength of legal rights index (weighted at 62.5%).

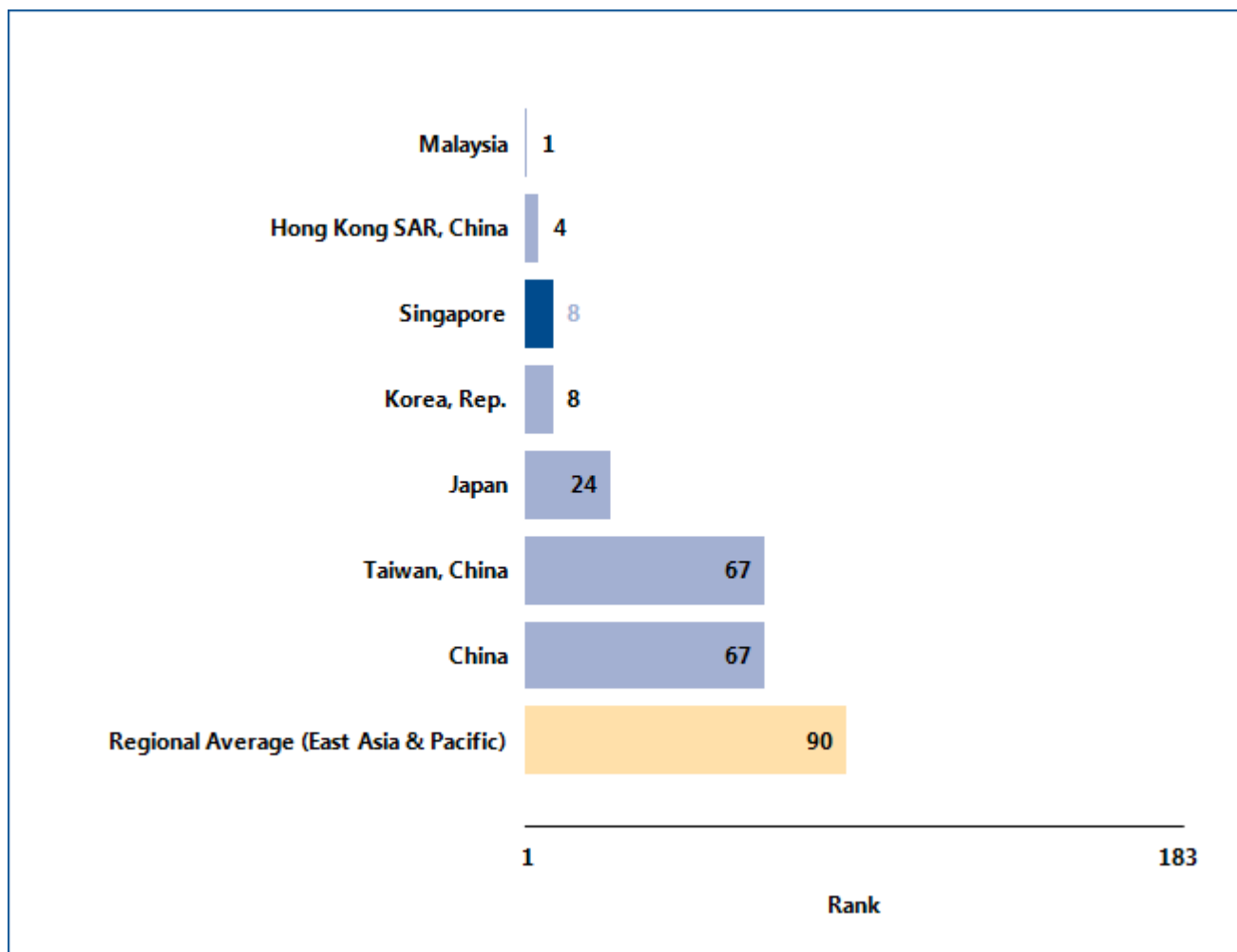
GETTING CREDIT

Where does the economy stand today?

How well do the credit information system and collateral and bankruptcy laws in Singapore facilitate access to credit? The economy has a score of 4 on the depth of credit information index and a score of 10 on the strength of legal rights index (see the summary of scoring at the end of this chapter for details). Higher scores indicate more credit information and stronger legal rights for borrowers and lenders.

Globally, Singapore stands at 8 in the ranking of 183 economies on the ease of getting credit (figure 6.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how well regulations and institutions in Singapore support lending and borrowing.

Figure 6.1 How Singapore and comparator economies rank on the ease of getting credit



Source: *Doing Business* database.

GETTING CREDIT

What are the changes over time?

While the most recent *Doing Business* data reflect how well the credit information system and collateral and bankruptcy laws in Singapore support lending and borrowing today, data over time can help show where

institutions and regulations have been strengthened—and where they have not (table 6.1). That can help identify where the potential for improvement is greatest.

Table 6.1 The ease of getting credit in Singapore over time
By *Doing Business* report year

Indicator	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	..	8	8
Strength of legal rights index (0-10)	10	10	10	10	10	10	10	10
Depth of credit information index (0-6)	3	3	3	3	3	3	4	4
Public registry coverage (% of adults)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Private bureau coverage (% of adults)	33.5	38.6	38.6	42.7	48.3	40.3	60.8	53.8

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: *Doing Business* database.

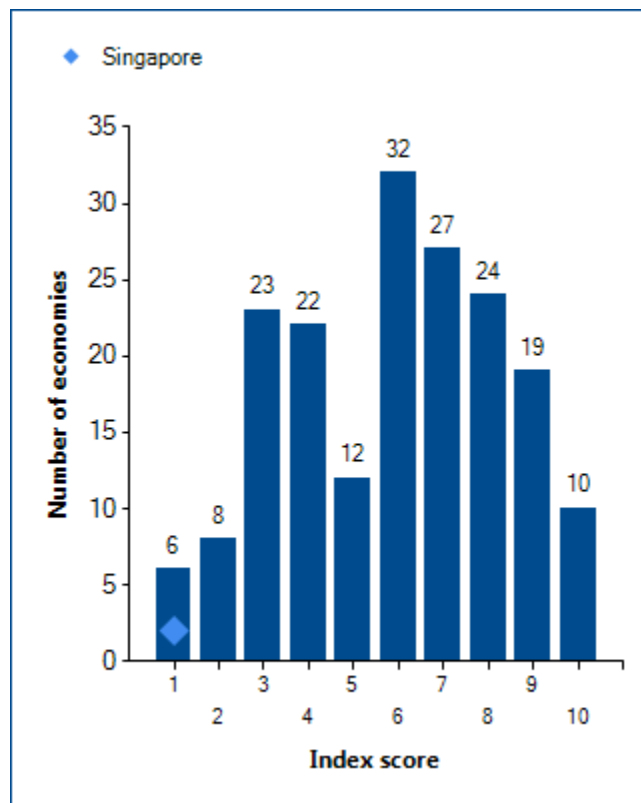
GETTING CREDIT

One way to put an economy's getting credit indicators into context is to see where the economy stands in the distribution of scores across other economies. Figure 6.2 highlights the score on the strength of legal rights

index for Singapore in 2011 and shows the number of other economies having the same score in 2011. Figure 6.3 shows the same thing for the depth of credit information index.

Figure 6.2 Have legal rights for borrowers and lenders become stronger?

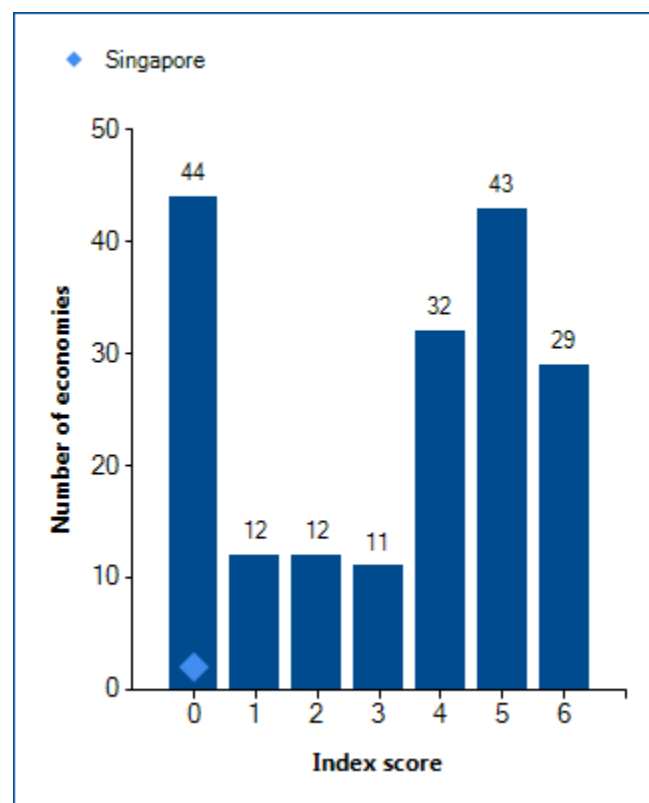
Number of economies with each score on strength of legal rights index (0–10), 2011



Source: Doing Business database.

Figure 6.3 Have the coverage and accessibility of credit information grown?

Number of economies with each score on depth of credit information index (0–6), 2011



Source: Doing Business database.

GETTING CREDIT

When economies strengthen the legal rights of lenders and borrowers under collateral and bankruptcy laws, and increase the scope, coverage and accessibility of

credit information, they can increase entrepreneurs' access to credit. What credit reforms has *Doing Business* recorded in Singapore (table 6.2)?

Table 6.2 How has Singapore made getting credit easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2005), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

GETTING CREDIT

What are the details?

The getting credit indicators reported here for Singapore are based on detailed information collected in that economy. The data on credit information sharing are collected through a survey of a public credit registry or private credit bureau (if one exists). To construct the depth of credit information index, a score of 1 is assigned for each of 6 features of the public credit registry or private credit bureau (see summary of scoring below).

The data on the legal rights of borrowers and lenders are gathered through a survey of financial lawyers and verified through analysis of laws and regulations as well as public sources of information on collateral and bankruptcy laws. For the strength of legal rights index, a score of 1 is assigned for each of 8 aspects related to legal rights in collateral law and 2 aspects in bankruptcy law.

Summary of scoring for the getting credit indicators in Singapore

Indicator	Singapore	East Asia & Pacific	OECD high income
Strength of legal rights index (0-10)	10	7	7
Depth of credit information index (0-6)	4	2	5
Public registry coverage (% of adults)	0.0	10.3	9.5
Private bureau coverage (% of adults)	53.8	18.1	63.9

Strength of legal rights index (0–10)	Index score: 10
Can any business use movable assets as collateral while keeping possession of the assets; and any financial institution accept such assets as collateral ?	Yes
Does the law allow businesses to grant a non possessory security right in a single category of movable assets, without requiring a specific description of collateral?	Yes
Does the law allow businesses to grant a non possessory security right in substantially all of its assets, without requiring a specific description of collateral?	Yes
May a security right extend to future or after-acquired assets, and may it extend automatically to the products, proceeds or replacements of the original assets ?	Yes
Is a general description of debts and obligations permitted in collateral agreements; can all types of debts and obligations be secured between parties; and can the collateral agreement include a maximum amount for which the assets are encumbered?	Yes
Is a collateral registry in operation, that is unified geographically and by asset type, with an electronic database indexed by debtor's names?	Yes
Are secured creditors paid first (i.e. before general tax claims and employee claims) when a debtor defaults outside an insolvency procedure?	Yes

Strength of legal rights index (0–10)	Index score: 10
Are secured creditors paid first (i.e. before general tax claims and employee claims) when a business is liquidated?	Yes
Are secured creditors either not subject to an automatic stay or moratorium on enforcement procedures when a debtor enters a court-supervised reorganization procedure, or the law provides secured creditors with grounds for relief from an automatic stay or	Yes
Does the law allow parties to agree in a collateral agreement that the lender may enforce its security right out of court, at the time a security interest is created?	Yes

Depth of credit information index (0–6)	Private credit bureau	Public credit registry	Index score: 4
Are data on both firms and individuals distributed?	Yes	No	1
Are both positive and negative data distributed?	Yes	No	1
Does the registry distribute credit information from retailers, trade creditors or utility companies as well as financial institutions?	No	No	0
Are more than 2 years of historical credit information distributed?	Yes	No	1
Is data on all loans below 1% of income per capita distributed?	Yes	No	1
Is it guaranteed by law that borrowers can inspect their data in the largest credit registry?	No	No	0

Note: An economy receives a score of 1 if there is a "yes" to either private bureau or public registry.

Coverage	Private credit bureau	Public credit registry
Number of firms	154,100	0
Number of individuals	1,900,000	0

Source: Doing Business database.

PROTECTING INVESTORS

Investor protections matter for the ability of companies to raise the capital they need to grow, innovate, diversify and compete. If the laws do not provide such protections, investors may be reluctant to invest unless they become the controlling shareholders. Strong regulations clearly define related-party transactions, promote clear and efficient disclosure requirements, require shareholder participation in major decisions of the company and set clear standards of accountability for company insiders.

What do the indicators cover?

Doing Business measures the strength of minority shareholder protections against directors' use of corporate assets for personal gain—or self-dealing. The indicators distinguish 3 dimensions of investor protections: transparency of related-party transactions (extent of disclosure index), liability for self-dealing (extent of director liability index) and shareholders' ability to sue officers and directors for misconduct (ease of shareholder suits index). The ranking on the strength of investor protection index is the simple average of the percentile rankings on these 3 indices. To make the data comparable across economies, a case study uses several assumptions about the business and the transaction.

The business (Buyer):

- Is a publicly traded corporation listed on the economy's most important stock exchange (or at least a large private company with multiple shareholders).
- Has a board of directors and a chief executive officer (CEO) who may legally act on behalf of Buyer where permitted, even if this is not specifically required by law.

The transaction involves the following details:

- Mr. James, a director and the majority shareholder of the company, proposes that

WHAT THE PROTECTING INVESTORS INDICATORS MEASURE

Extent of disclosure index (0–10)

- Who can approve related-party transactions
- Disclosure requirements in case of related-party transactions

Extent of director liability index (0–10)

- Ability of shareholders to hold interested parties and members of the approving body liable in case of related-party transactions
- Available legal remedies (damages, repayment of profits, fines, imprisonment and rescission of the transaction)
- Ability of shareholders to sue directly or derivatively

Ease of shareholder suits index (0–10)

- Access to internal corporate documents (directly or through a government inspector)
- Documents and information available during trial

Strength of investor protection index (0–10)

- Simple average of the extent of disclosure, extent of director liability and ease of shareholder suits indices

the company purchase used trucks from another company he owns.

- The price is higher than the going price for used trucks, but the transaction goes forward.
- All required approvals are obtained, and all required disclosures made, though the transaction is prejudicial to Buyer.
- Shareholders sue the interested parties and the members of the board of directors.

PROTECTING INVESTORS

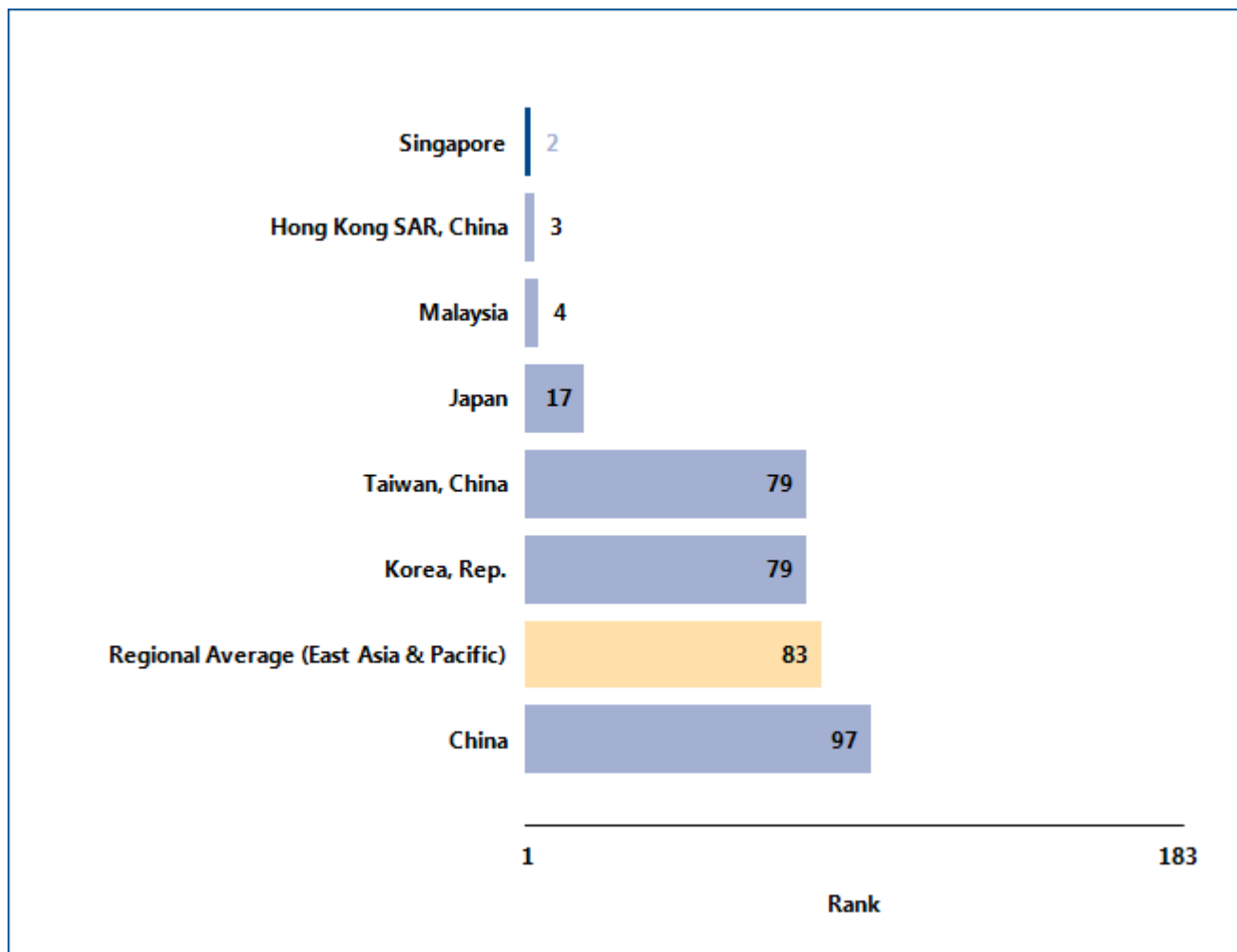
Where does the economy stand today?

How strong are investor protections in Singapore? The economy has a score of 9.3 on the strength of investor protection index, with a higher score indicating stronger protections (see the summary of scoring at the end of this chapter for details).

Globally, Singapore stands at 2 in the ranking of 183 economies on the strength of investor protection

index (figure 7.1). While the indicator does not measure all aspects related to the protection of minority investors, a higher ranking does indicate that an economy's regulations offer stronger investor protections against self-dealing in the areas measured.

Figure 7.1 How Singapore and comparator economies rank on the strength of investor protection index



Source: Doing Business database.

PROTECTING INVESTORS

What are the changes over time?

While the most recent *Doing Business* data reflect how well regulations in Singapore protect minority investors today, data over time show whether the protections have been strengthened (table 7.1). And

the global ranking on the strength of investor protection index over time shows whether the economy is slipping behind other economies in investor protections—or surpassing them.

Table 7.1 The strength of investor protections in Singapore over time
By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	2	2
Extent of disclosure index (0-10)	10	10	10	10	10	10	10
Extent of director liability index (0-10)	9	9	9	9	9	9	9
Ease of shareholder suits index (0-10)	9	9	9	9	9	9	9
Strength of investor protection index (0-10)	9.3	9.3	9.3	9.3	9.3	9.3	9.3

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: *Doing Business* database.

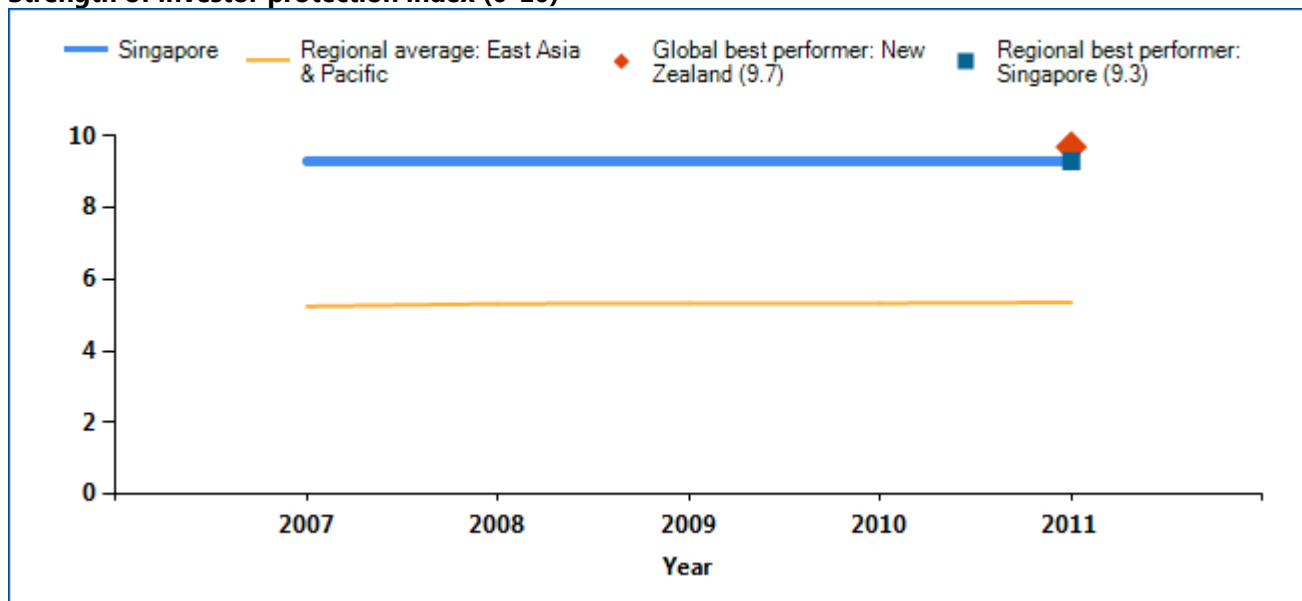
PROTECTING INVESTORS

But the overall ranking on the strength of investor protection index tells only part of the story. Economies may offer strong protections in some areas but not others. So the scores recorded over time for Singapore on the extent of disclosure, extent of director liability

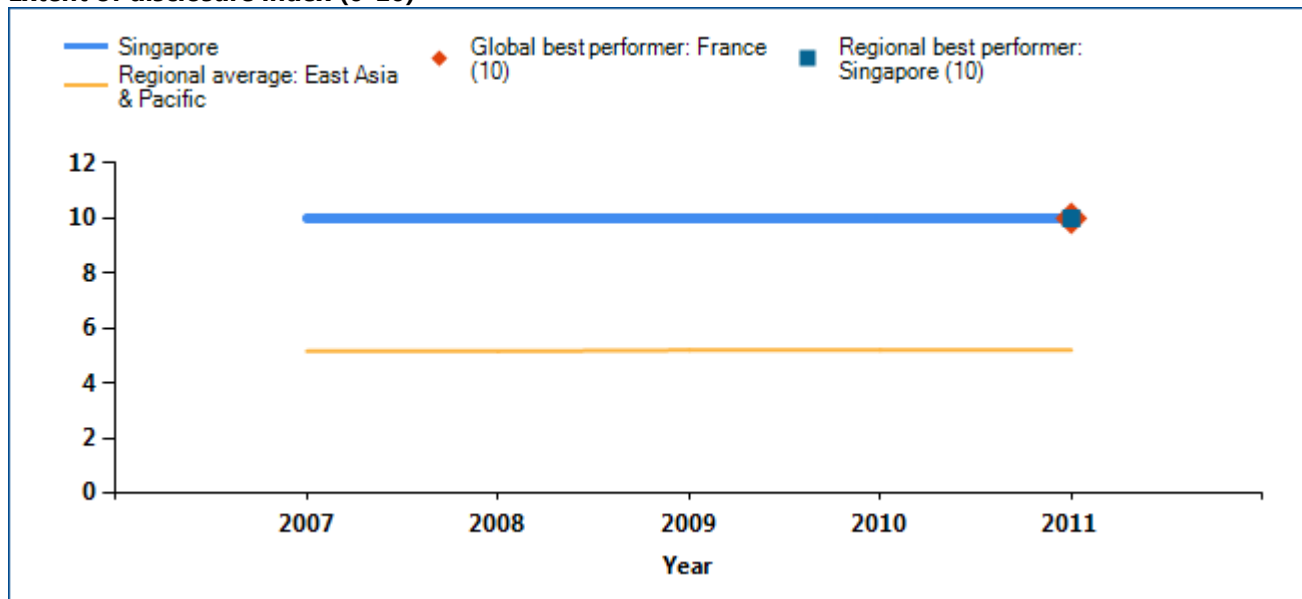
and ease of shareholder suits indices may also be revealing (figure 7.2). Equally interesting may be the changes over time in the regional average scores for those indices.

Figure 7.2 Have investor protections become stronger?

Strength of investor protection index (0-10)

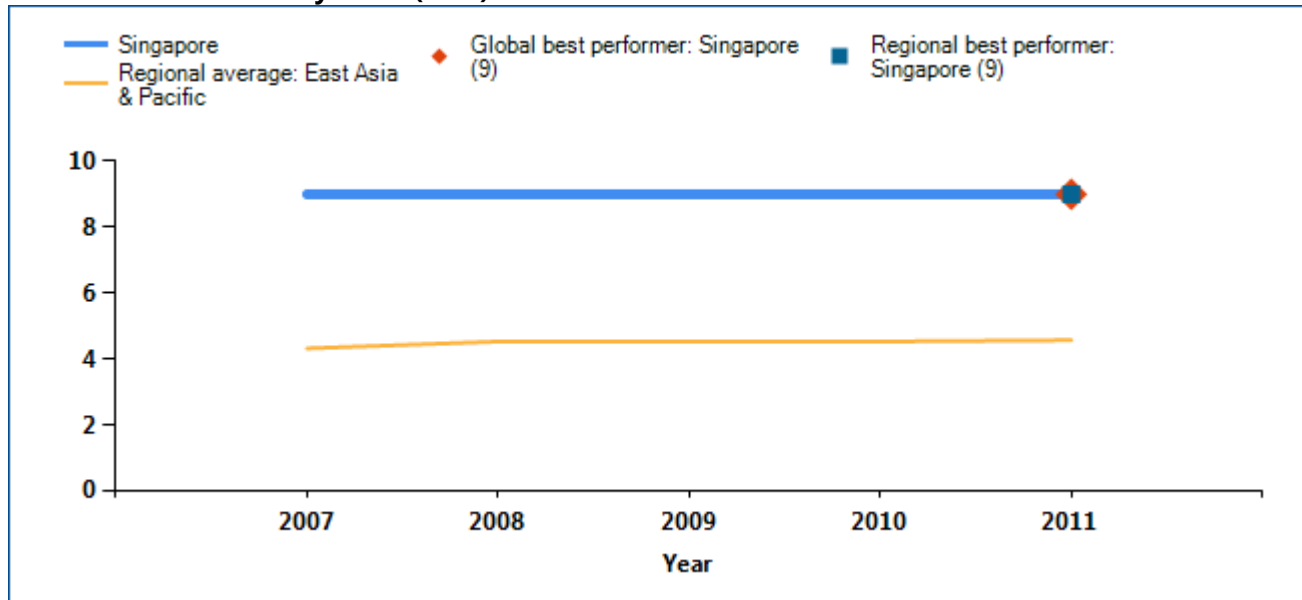


Extent of disclosure index (0-10)

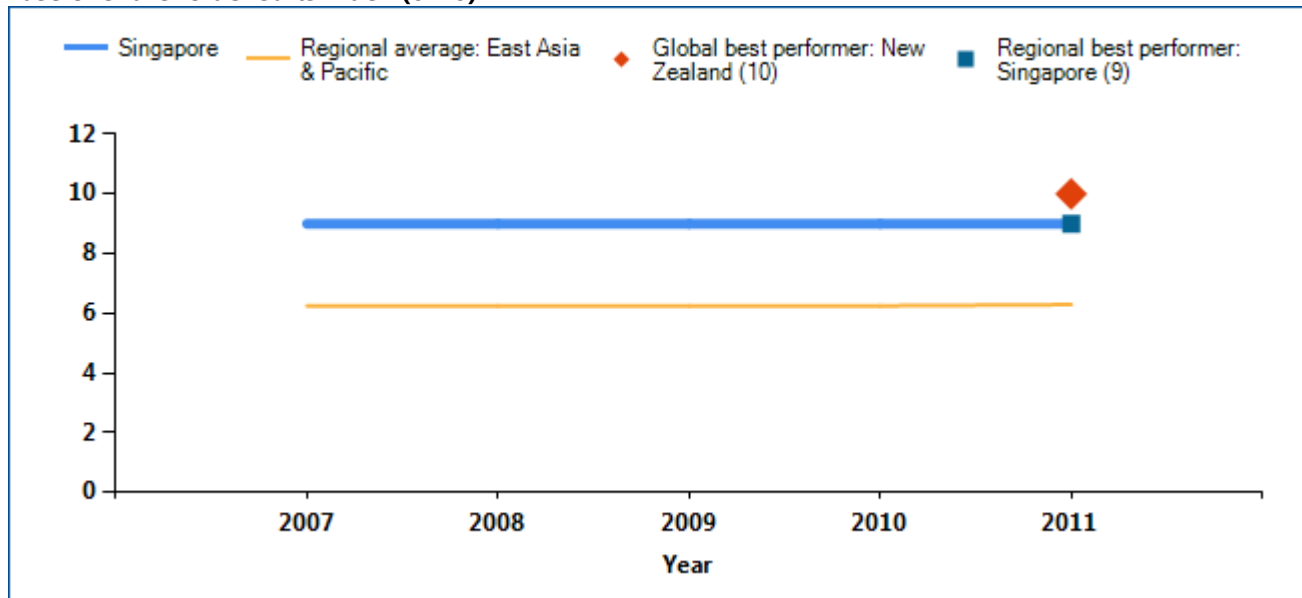


PROTECTING INVESTORS

Extent of director liability index (0-10)



Ease of shareholder suits index (0-10)



Note: The higher the score, the stronger the investor protections. The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator.

Source: Doing Business database.

PROTECTING INVESTORS

Economies with the strongest protections of minority investors from self-dealing require more disclosure and define clear duties for directors. They also have well-functioning courts and up-to-date procedural rules that give minority investors the means to prove their case and obtain a judgment within a reasonable

time. So reforms to strengthen investor protections may move ahead on different fronts—such as through new or amended company laws or civil procedure rules. What investor protection reforms has *Doing Business* recorded in Singapore (table 7.2)?

Table 7.2 How has Singapore strengthened investor protections—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2006), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

PROTECTING INVESTORS

What are the details?

The protecting investors indicators reported here for Singapore are based on detailed information collected through a survey of corporate and securities lawyers and are based on securities regulations, company laws and court rules of evidence. To construct the extent of disclosure, extent of director liability and ease of

shareholder suits indices, a score is assigned for each of a range of conditions relating to disclosure, director liability and shareholder suits in a standard case study transaction (see the notes at the end of this chapter). The summary below shows the details underlying the scores for Singapore.

Summary of scoring for the protecting investors indicators in Singapore

Indicator	Singapore	East Asia & Pacific	OECD high income
Extent of disclosure index (0-10)	10	5	6
Extent of director liability index (0-10)	9	5	5
Ease of shareholder suits index (0-10)	9	6	7
Strength of investor protection index (0-10)	9.3	5.4	6.0

	Score
Extent of disclosure index (0-10)	10
What corporate body provides legally sufficient approval for the transaction?	3
Whether disclosure of the conflict of interest by Mr. James to the board of directors is required?	2
Whether immediate disclosure of the transaction to the public and/or shareholders is required?	2
Whether disclosure of the transaction in published periodic filings (annual reports) is required?	2
Whether an external body must review the terms of the transaction before it takes place?	1
Extent of director liability index (0-10)	9
Whether shareholders can sue directly or derivatively for the damage that the Buyer-Seller transaction causes to the company?	1
Whether shareholders can hold Mr. James liable for the damage that the Buyer-Seller transaction causes to the company?	2
Whether shareholders can hold members of the approving body liable for the damage that the Buyer-Seller transaction causes to the company?	2
Whether a court can void the transaction upon a successful claim by a shareholder plaintiff?	1

	Score
Whether Mr. James pays damages for the harm caused to the company upon a successful claim by the shareholder plaintiff?	1
Whether Mr. James repays profits made from the transaction upon a successful claim by the shareholder plaintiff?	1
Whether fines and imprisonment can be applied against Mr. James?	1
Ease of shareholder suits index (0-10)	9
Whether shareholders owning 10% or less of Buyer's shares can inspect transaction documents before filing suit?	0
Whether shareholders owning 10% or less of Buyer's shares can request an inspector to investigate the transaction?	1
Whether the plaintiff can obtain any documents from the defendant and witnesses during trial?	4
Whether the plaintiff can request categories of documents from the defendant without identifying specific ones?	1
Whether the plaintiff can directly question the defendant and witnesses during trial?	2
Whether the level of proof required for civil suits is lower than that of criminal cases?	1
Strength of investor protection index (0-10)	9.3

Source: *Doing Business* database.

Notes:

Extent of disclosure index (0–10)

Scoring for the extent of disclosure index is based on 5 components:

Which corporate body can provide legally sufficient approval for the transaction

0 = CEO or managing director alone; 1 = shareholders or board of directors vote and Mr. James can vote; 2 = board of directors votes and Mr. James cannot vote; 3 = shareholders vote and Mr. James cannot vote.

Whether disclosure of the conflict of interest by Mr. James to the board of directors is required

0 = no disclosure; 1 = disclosure of the existence of a conflict without any specifics; 2 = full disclosure of all material facts.

Whether immediate disclosure of the transaction to the public, the regulator or the shareholders is required

0 = no disclosure; 1 = disclosure on the transaction only; 2 = disclosure on the transaction and Mr. James's conflict of interest.

Whether disclosure of the transaction in the annual report is required

0 = no disclosure; 1 = disclosure on the transaction only; 2 = disclosure on the transaction and Mr. James's conflict of interest.

Whether it is required that an external body (for example, an external auditor) review the transaction before it takes place

0 = no; 1 = yes.

Extent of director liability index (0–10)

Scoring for the extent of director liability index is based on 7 components:

Whether shareholders can sue directly or derivatively for the damage that the Buyer-Seller transaction causes to the company

0 = suits are unavailable or available only for shareholders holding more than 10% of the company's share capital; 1 = direct or derivative suits available for shareholders holding 10% of share capital or less.

Whether shareholders can hold Mr. James liable for the damage that the transaction causes to the company

0 = Mr. James is not liable or is liable only if he acted fraudulently or in bad faith; 1 = Mr. James is liable if he influenced the approval or was negligent; 2 = Mr. James is liable if the transaction is unfair or prejudicial to the other shareholders.

Whether shareholders can hold the approving body (the CEO or members of the board of directors) liable for the damage that the transaction causes to the company

0 = members of the approving body are either not liable or liable only if they acted fraudulently or in bad faith; 1 = liable for negligence in the approval of the transaction; 2 = liable if the transaction is unfair or prejudicial to the other shareholders.

Whether a court can void the transaction upon a successful claim by a shareholder plaintiff

0 = rescission is unavailable or available only in case of Seller's fraud or bad faith; 1 = rescission is available when the transaction is oppressive or prejudicial to the other shareholders; 2 = rescission is available when the transaction is unfair or entails a conflict of interest.

Whether Mr. James pays damages for the harm caused to the company upon a successful claim by the shareholder plaintiff

0 = no; 1 = yes.

Whether Mr. James repays profits made from the transaction upon a successful claim by the shareholder plaintiff

0 = no; 1 = yes.

Whether both fines and imprisonment can be applied against Mr. James

0 = no; 1 = yes.

Ease of shareholder suits index (0–10)

Scoring for the ease of shareholder suits index is based on 6 components:

What range of documents is available to the plaintiff from the defendant and witnesses during trial

Score of 1 for each of the following: information that the defendant has indicated he intends to rely on for his defense; information that directly proves specific facts in the plaintiff's claim; any information relevant to the subject matter of the claim; and any information that may lead to the discovery of relevant information.

Whether the plaintiff can directly examine the defendant and witnesses during trial

0 = no; 1 = yes, with prior approval by the court of the questions posed; 2 = yes, without prior approval.

Whether the plaintiff can obtain categories of relevant documents from the defendant without identifying each document specifically

0 = no; 1 = yes.

Whether shareholders owning 10% or less of the company's share capital can request that a government inspector investigate the transaction without filing suit in court

0 = no; 1 = yes.

Whether shareholders owning 10% or less of the company's share capital have the right to inspect the transaction documents before filing suit

0 = no; 1 = yes.

Whether the standard of proof for civil suits is lower than that for a criminal case

0 = no; 1 = yes.

Strength of investor protection index (0–10)

Simple average of the extent of disclosure, extent of director liability and ease of shareholder suits indices.

PAYING TAXES

Taxes are essential. They fund the public amenities, infrastructure and services that are crucial for a properly functioning economy. But the level of tax rates needs to be carefully chosen—and needless complexity in tax rules avoided. According to *Doing Business* data, in economies where it is more difficult and costly to pay taxes, larger shares of economic activity end up in the informal sector—where businesses pay no taxes at all.

What do the indicators cover?

Using a case scenario, *Doing Business* measures the taxes and mandatory contributions that a medium-size company must pay in a given year as well as the administrative burden of paying taxes and contributions. This case scenario uses a set of financial statements and assumptions about transactions made over the year. Information is also compiled on the frequency of filing and payments as well as time taken to comply with tax laws. The ranking on the ease of paying taxes is the simple average of the percentile rankings on its component indicators: number of annual payments, time and total tax rate, with a threshold being applied to the total tax rate.² To make the data comparable across economies, several assumptions about the business and the taxes and contributions are used.

- TaxpayerCo is a medium-size business that started operations on January 1, 2009.
- The business starts from the same financial position in each economy. All the taxes and mandatory contributions paid during the second year of operation are recorded.
- Taxes and mandatory contributions are measured at all levels of government.

WHAT THE PAYING TAXES INDICATORS MEASURE

Tax payments for a manufacturing company in 2010 (number per year adjusted for electronic or joint filing and payment)

Total number of taxes and contributions paid, including consumption taxes (value added tax, sales tax or goods and service tax)

Method and frequency of filing and payment

Time required to comply with 3 major taxes (hours per year)

Collecting information and computing the tax payable

Completing tax return forms, filing with proper agencies

Arranging payment or withholding

Preparing separate tax accounting books, if required

Total tax rate (% of profit before all taxes)

Profit or corporate income tax

Social contributions and labor taxes paid by the employer

Property and property transfer taxes

Dividend, capital gains and financial transactions taxes

Waste collection, vehicle, road and other taxes

- Taxes and mandatory contributions include corporate income tax, turnover tax and all labor taxes and contributions paid by the company.
- A range of standard deductions and exemptions are also recorded.

² The threshold is defined as the highest total tax rate among the top 30% of economies in the ranking on the total tax rate. It will be calculated and adjusted on a yearly basis. The threshold is not based on any underlying theory. Instead, it is intended to mitigate the effect of very low tax rates on the ranking on the ease of paying taxes.

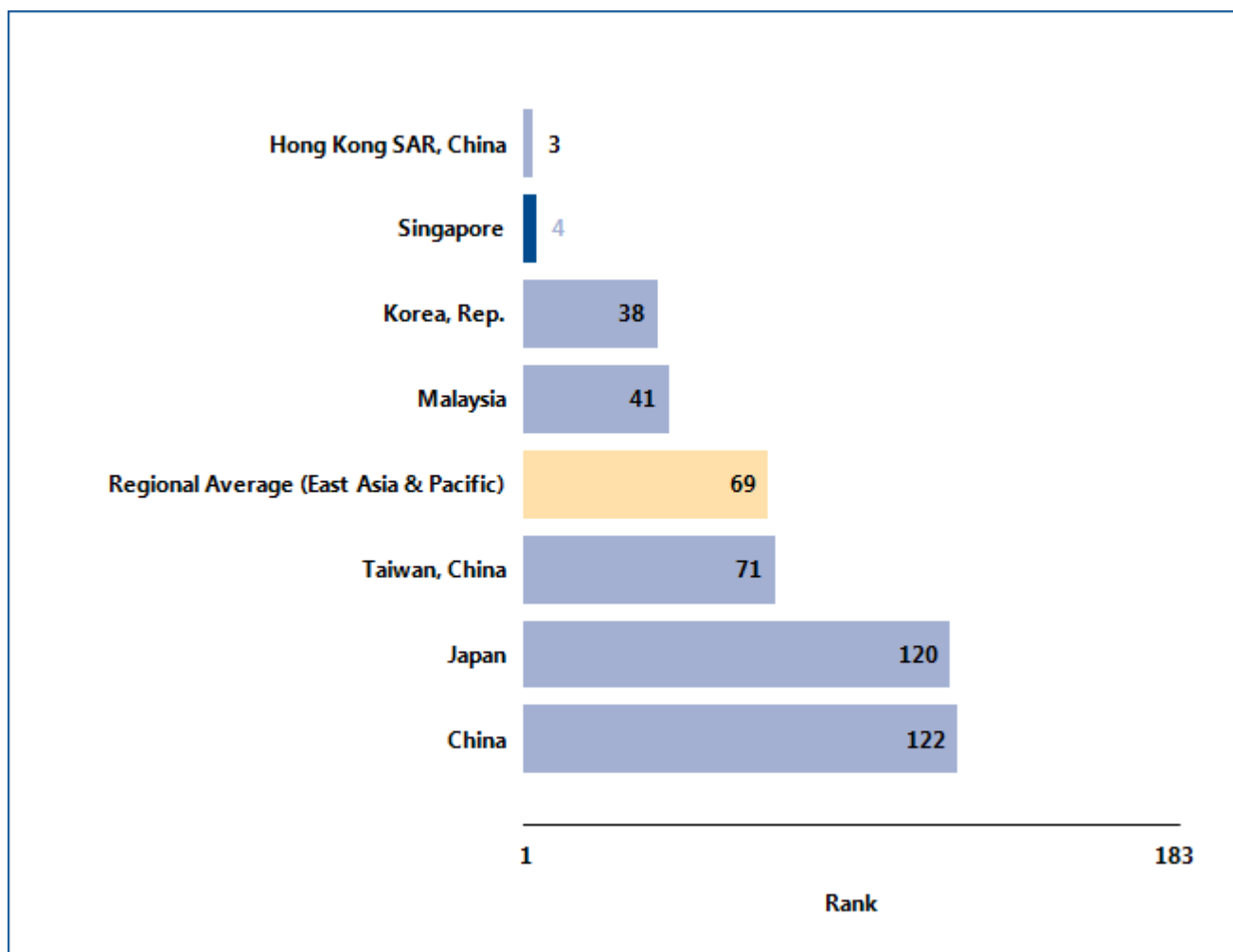
PAYING TAXES

Where does the economy stand today?

What is the administrative burden of complying with taxes in Singapore—and how much do firms pay in taxes? On average, firms make 5 tax payments a year, spend 84 hours a year filing, preparing and paying taxes and pay total taxes amounting to 6.5% of profit (see the summary at the end of this chapter for details).

Globally, Singapore stands at 4 in the ranking of 183 economies on the ease of paying taxes (figure 8.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing the tax compliance burden for businesses in Singapore.

Figure 8.1 How Singapore and comparator economies rank on the ease of paying taxes



Note: DB2012 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 32.5% applied in DB2012, the total tax rate is set at 32.5% for the purpose of calculating the ranking on the ease of paying taxes.

Source: *Doing Business* database.

PAYING TAXES

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to comply with tax rules in Singapore today, data over time show which aspects of

the process have changed — and which have not (table 8.1). That can help identify where the potential for easing tax compliance is greatest.

Table 8.1 The ease of paying taxes in Singapore over time
By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	4	4
Payments (number per year)	5	5	5	5	5	5	5
Time (hours per year)	80	80	80	84	84	84	84
Total tax rate (% profit)	27.7	23.8	23.2	27.9	27.8	25.4	27.1

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 32.5% applied in DB2012, the total tax rate is set at 32.5% for the purpose of calculating the rank on the ease of paying taxes.

Source: *Doing Business* database.

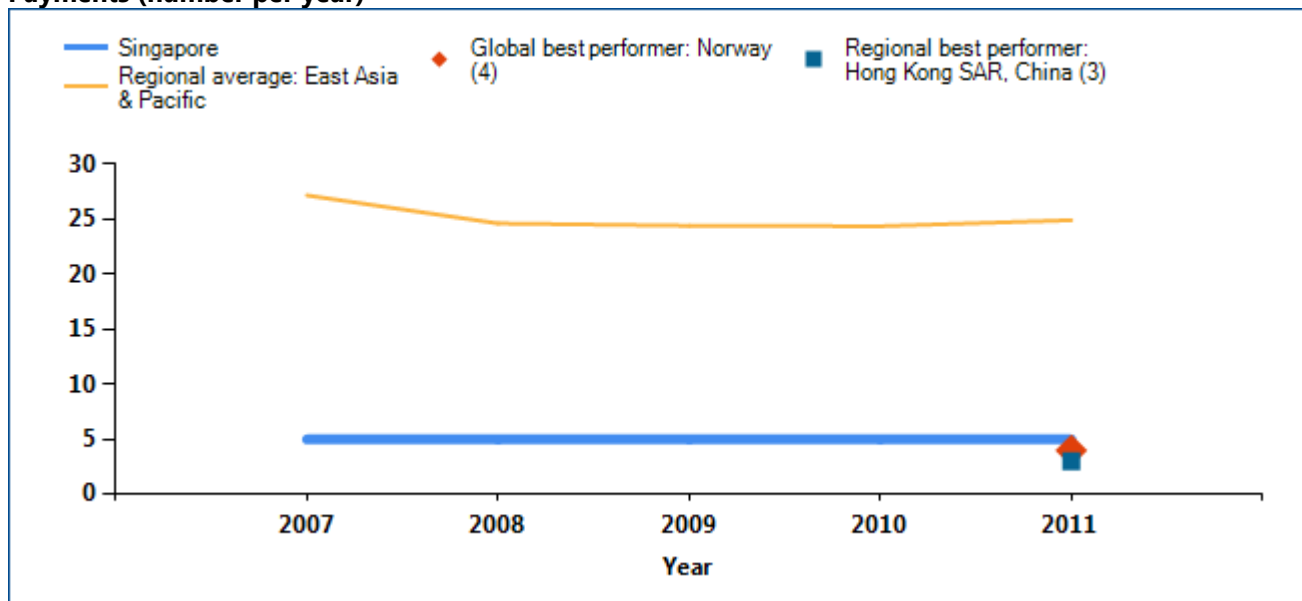
PAYING TAXES

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the number of payments or the time required to prepare and file taxes (figure 8.2). These economies may provide a model for Singapore

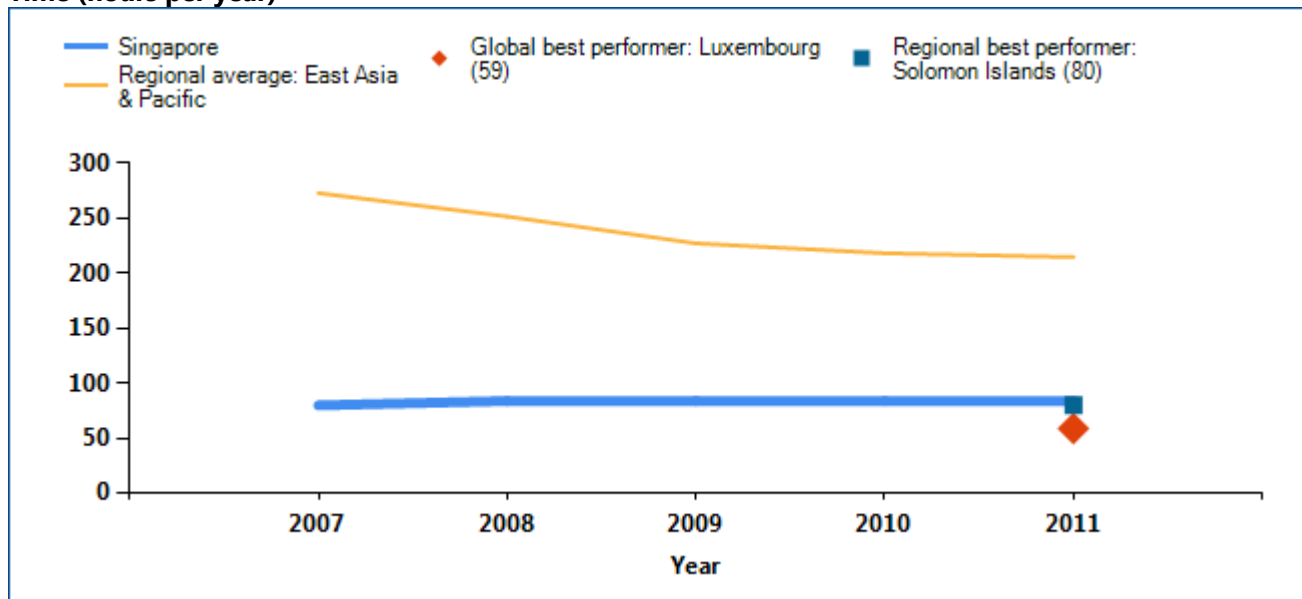
on ways to ease the administrative burden of tax compliance. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 8.2 Has paying taxes become easier over time?

Payments (number per year)

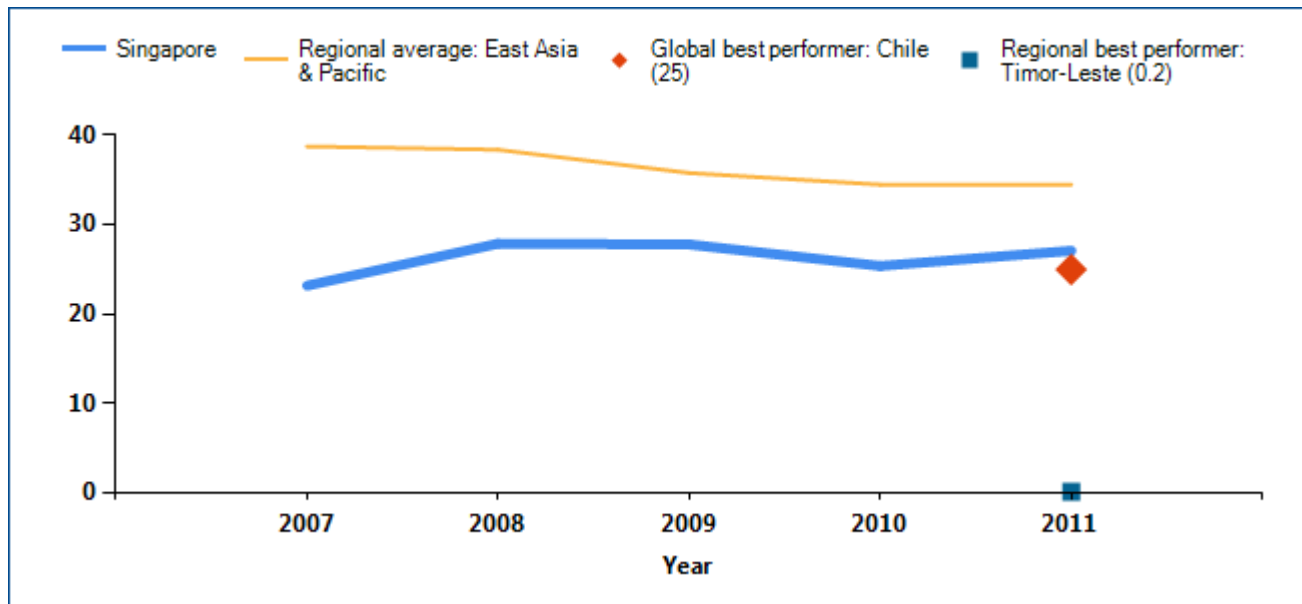


Time (hours per year)



PAYING TAXES

Total tax rate (% of profit)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. The best performer globally on an indicator has implemented the most efficient practices in its tax system but is not necessarily the one with the highest ranking on the indicator. In some cases 2 or more economies share the top regional ranking on an indicator. DB2012 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 32.5% applied in DB2012, the total tax rate is set at 32.5% for the purpose of calculating the ranking on the ease of paying taxes.

Source: Doing Business database.

PAYING TAXES

Economies around the world have made paying taxes faster and easier for businesses—such as by consolidating filings, reducing the frequency of payments or offering electronic filing and payment. Many have lowered tax rates. Changes have brought

concrete results. Some economies simplifying tax payment and reducing rates have seen tax revenue rise. What tax reforms has *Doing Business* recorded in Singapore (table 8.2)?

Table 8.2 How has Singapore made paying taxes easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2006), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

PAYING TAXES

What are the details?

The indicators reported here for Singapore are based on a standard set of taxes and contributions that would be paid by the case study company used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover). Tax practitioners are asked to review standard financial statements as well as a standard list of transactions

that the company completed during the year. Respondents are asked how much in taxes and mandatory contributions the business must pay and what the process is for doing so. The taxes and contributions paid are listed in the summary below, along with the associated number of payments, time and tax rate.

Summary of tax rates and administrative burden in Singapore

Indicator	Singapore	East Asia & Pacific	OECD high income
Payments (number per year)	5	25	13
Time (hours per year)	84	215	186
Profit tax (%)	6.5	16.8	15.4
Labor tax and contributions (%)	15.9	10.7	24.0
Other taxes (%)	4.7	6.9	3.2
Total tax rate (% profit)	27.1	34.5	42.7

Tax or mandatory contribution	Payments (number)	Notes on payments	Time (hours)	Statutory tax rate	Tax base	Total tax rate (% of profit)	Notes on total tax rate
Employer paid - Social security contributions	1	online filing	10	14.5% (Jan 1 to Aug 31, 2010), 15% (Sep, 1 to Dec 31, 2010)	gross salaries	15.9	
Corporate income tax	1	online filing	34	17.0%	taxable profits	6.5	
Property tax	1		0	10.0%	property value	4.7	
Road tax	1		0	fixed fee	engine size	0	
Value added tax (GST)	1	online filing	40	7.00%	value added	0	not included
Totals	5		84			27.1	

Note: DB2012 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 32.5% applied in DB2012, the total tax rate is set at 32.5% for the purpose of calculating the ranking on the ease of paying taxes.

Source: *Doing Business* database.

TRADING ACROSS BORDERS

In today's globalized world, making trade between economies easier is increasingly important for business. Excessive document requirements, burdensome customs procedures, inefficient port operations and inadequate infrastructure all lead to extra costs and delays for exporters and importers, stifling trade potential. Research shows that exporters in developing countries gain more from a 10% drop in their trading costs than from a similar reduction in the tariffs applied to their products in global markets.

What do the indicators cover?

Doing Business measures the time and cost (excluding tariffs) associated with exporting and importing a standard shipment of goods by ocean transport, and the number of documents necessary to complete the transaction. The indicators cover procedural requirements such as documentation requirements and procedures at customs and other regulatory agencies as well as at the port. They also cover trade logistics, including the time and cost of inland transport to the largest business city. The ranking on the ease of trading across borders is the simple average of the percentile rankings on its component indicators: documents, time and cost to export and import.

To make the data comparable across economies, *Doing Business* uses several assumptions about the business and the traded goods.

The business:

- Is of medium size and employs 60 people.
- Is located in the periurban area of the economy's largest business city.
- Is a private, limited liability company, domestically owned, formally registered and operating under commercial laws and regulations of the economy.

The traded goods:

- Are not hazardous nor do they include military items.

WHAT THE TRADING ACROSS BORDERS INDICATORS MEASURE

Documents required to export and import (number)

- Bank documents
- Customs clearance documents
- Port and terminal handling documents
- Transport documents

Time required to export and import (days)

- Obtaining all the documents
- Inland transport and handling
- Customs clearance and inspections
- Port and terminal handling
- Does not include ocean transport time

Cost required to export and import (US\$ per container)

- All documentation
- Inland transport and handling
- Customs clearance and inspections
- Port and terminal handling
- Official costs only, no bribes

- Do not require refrigeration or any other special environment.
- Do not require any special phytosanitary or environmental safety standards other than accepted international standards.
- Are one of the economy's leading export or import products.
- Are transported in a dry-cargo, 20-foot full container load.

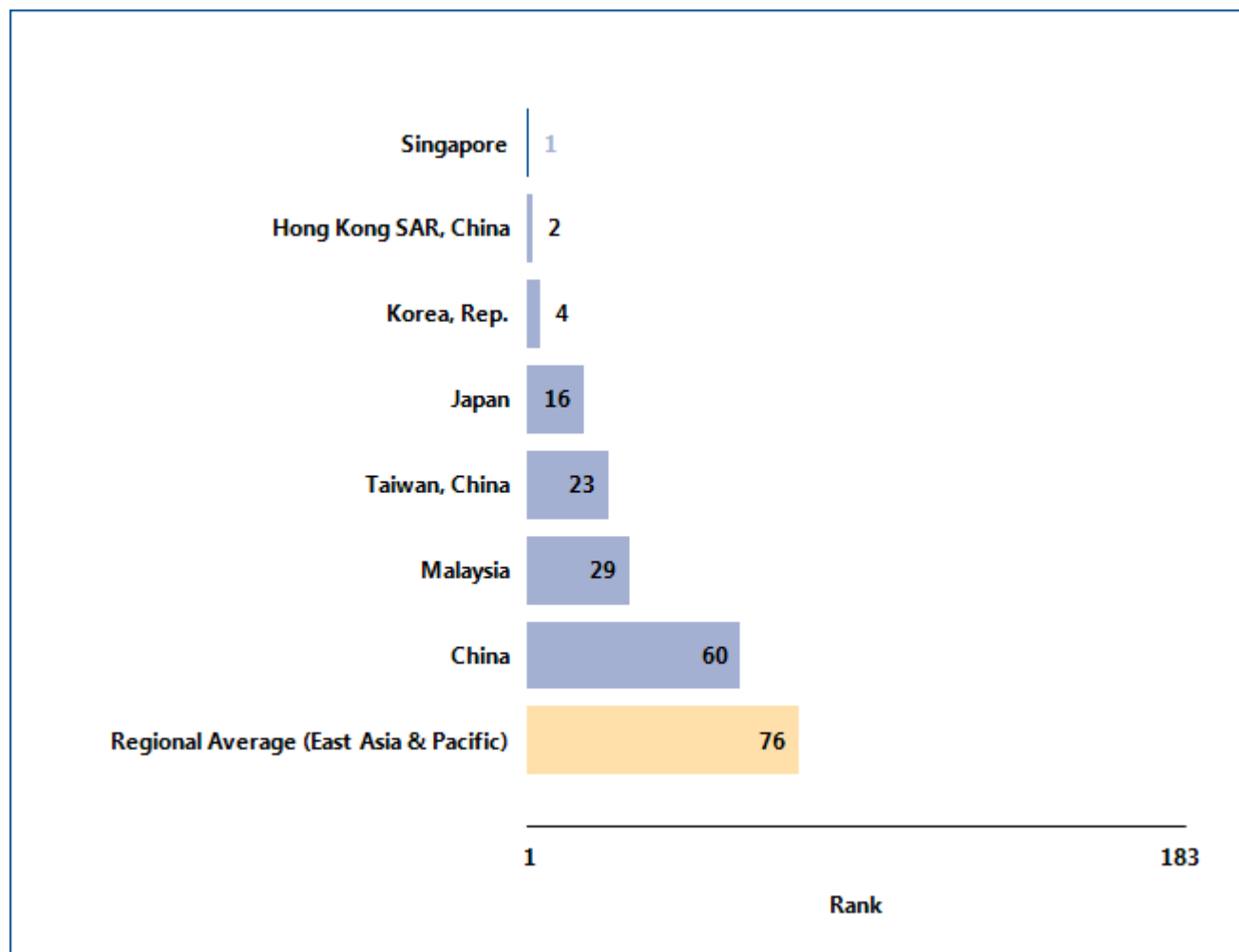
TRADING ACROSS BORDERS

Where does the economy stand today?

What does it take to export or import in Singapore? According to data collected by *Doing Business*, exporting a standard container of goods requires 4 documents, takes 5 days and costs \$456. Importing the same container of goods requires 4 documents, takes 4 days and costs \$439 (see the summary of procedures and documents at the end of this chapter for details).

Globally, Singapore stands at 1 in the ranking of 183 economies on the ease of trading across borders (figure 9.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how easy it is for a business in Singapore to export and import goods.

Figure 9.1 How Singapore and comparator economies rank on the ease of trading across borders



Source: *Doing Business* database.

TRADING ACROSS BORDERS

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to export or import in Singapore today, data over time show which aspects of the process have changed—and which have not (table 9.1). That can help identify where the potential for improvement is greatest.

Table 9.1 The ease of trading across borders in Singapore over time
By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	1	1
Documents to export (number)	4	4	4	4	4	4	4
Time to export (days)	5	5	5	5	5	5	5
Cost to export (US\$ per container)	416	416	416	456	456	456	456
Documents to import (number)	4	4	4	4	4	4	4
Time to import (days)	4	4	4	4	4	4	4
Cost to import (US\$ per container)	367	367	367	439	439	439	439

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: *Doing Business* database.

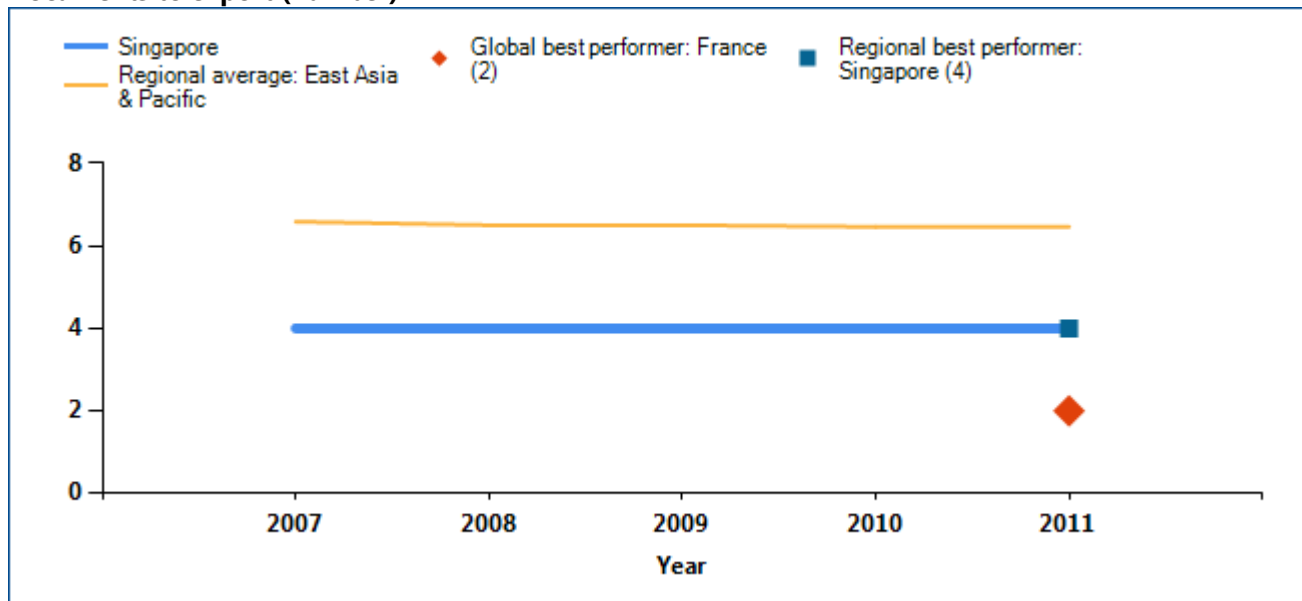
Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the documents, time or cost required to export or import (figure 9.2). These economies may provide a model for Singapore on

ways to improve the ease of trading across borders. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

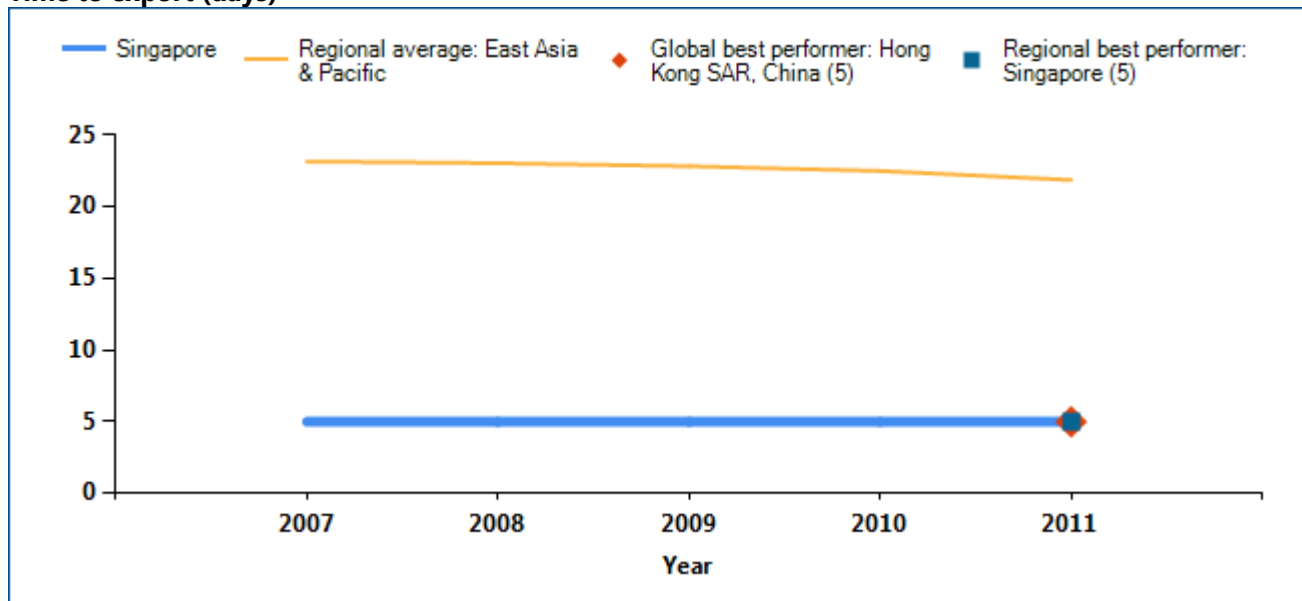
TRADING ACROSS BORDERS

Figure 9.2 Has trading across borders become easier over time?

Documents to export (number)

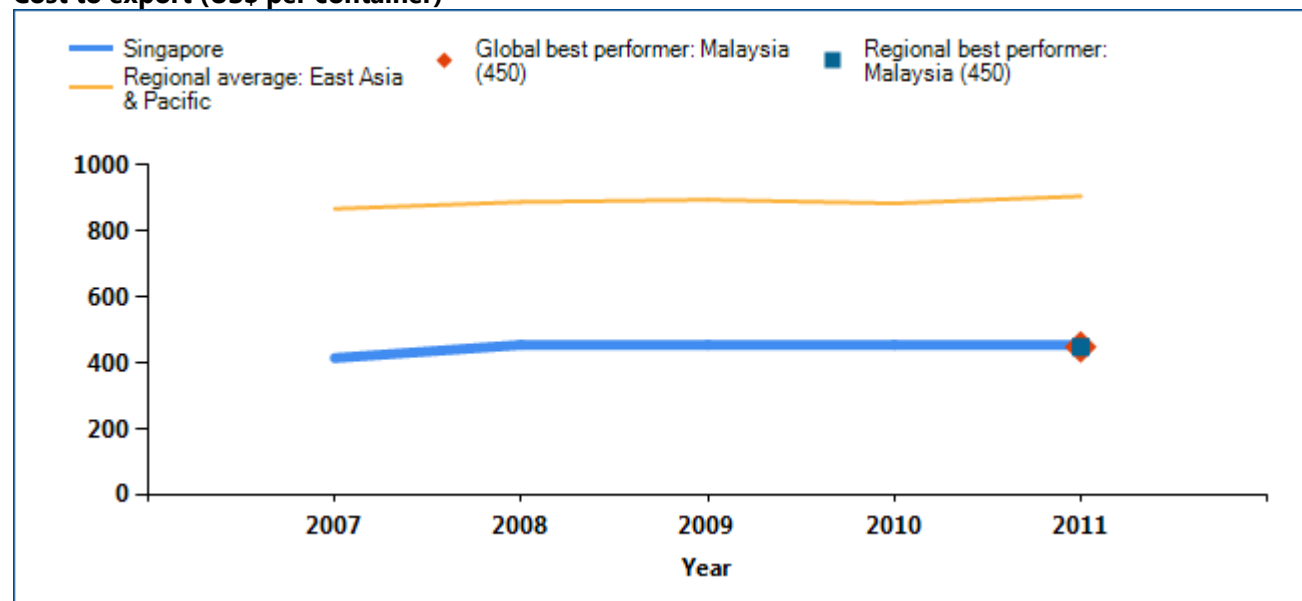


Time to export (days)

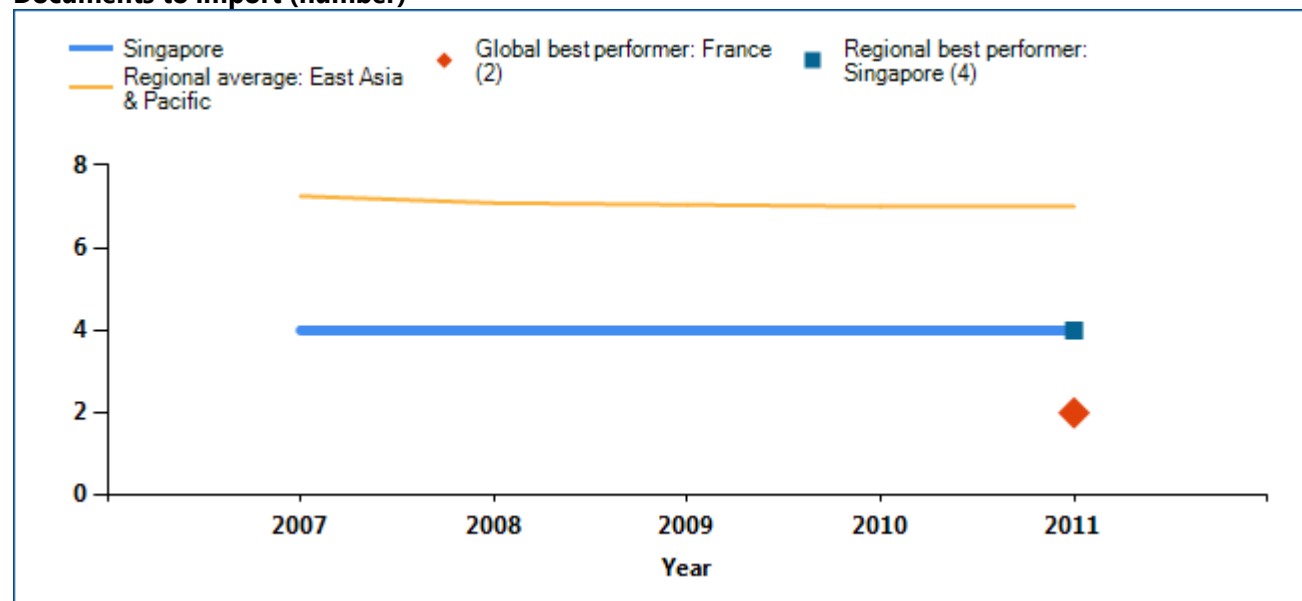


TRADING ACROSS BORDERS

Cost to export (US\$ per container)

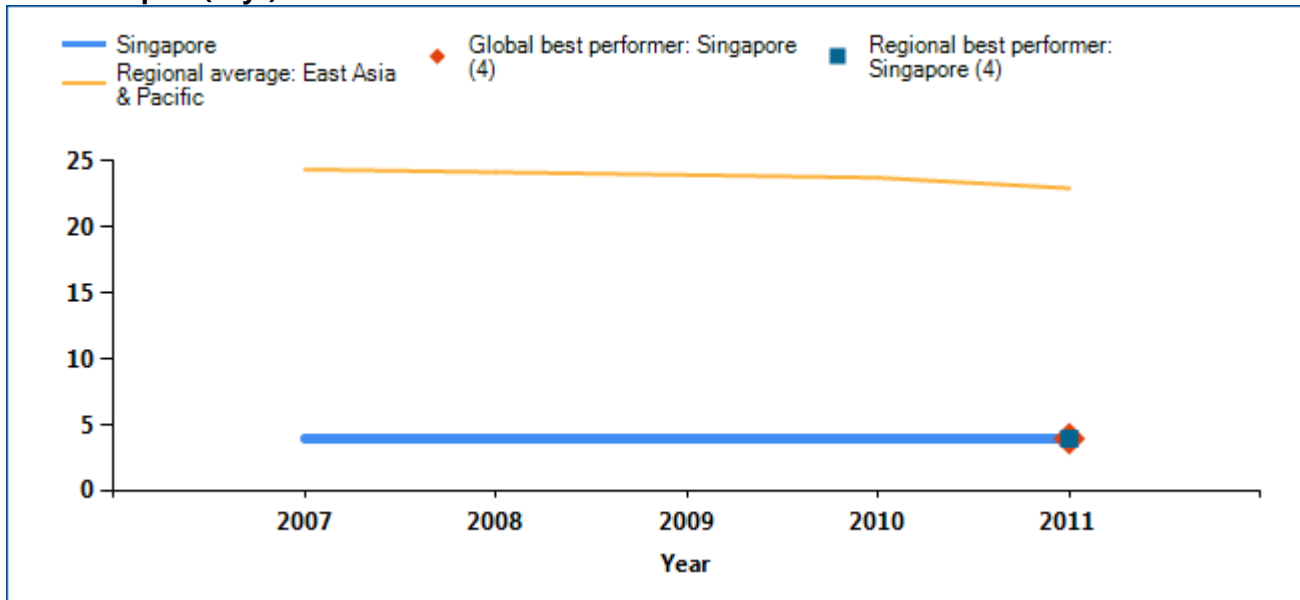


Documents to import (number)

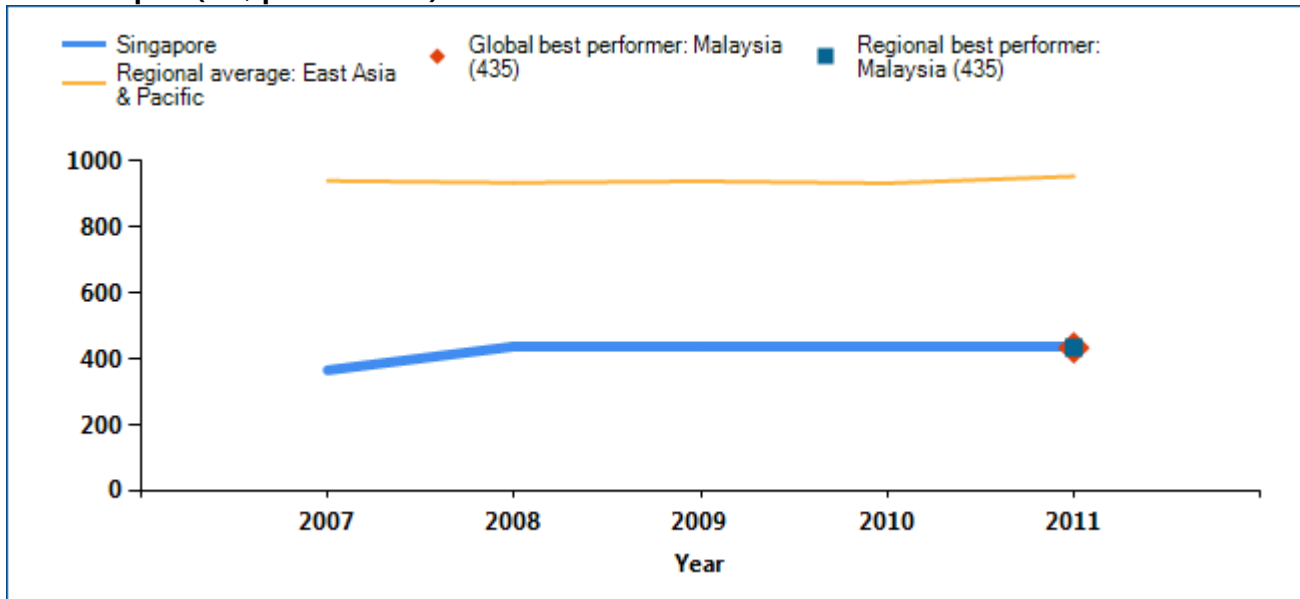


TRADING ACROSS BORDERS

Time to import (days)



Cost to import (US\$ per container)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator.

Source: Doing Business database.

TRADING ACROSS BORDERS

In economies around the world, trading across borders as measured by *Doing Business* has become faster and easier over the years. Governments have introduced tools to facilitate trade—including single windows, risk-based inspections and electronic data interchange

systems. These changes help improve the trading environment and boost firms' international competitiveness. What trade reforms has *Doing Business* recorded in Singapore (table 9.2)?

Table 9.2 How has Singapore made trading across borders easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2006), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

TRADING ACROSS BORDERS

What are the details?

The indicators reported here for Singapore are based on a set of specific procedural requirements for trading a standard shipment of goods by ocean transport (see the section in this chapter on what the indicators cover). Information on the procedures as well as the required documents and the time and cost to complete each procedure is collected from local

freight forwarders, shipping lines, customs brokers, port officials and banks. The procedural requirements, and the associated time and cost, for exporting and importing a standard shipment of goods are listed in the summary below, along with the required documents.

Summary of procedures and documents for trading across borders in Singapore

Indicator	Singapore	East Asia & Pacific	OECD high income
Documents to export (number)	4	6	4
Time to export (days)	5	22	10
Cost to export (US\$ per container)	456	906	1,032
Documents to import (number)	4	7	5
Time to import (days)	4	23	11
Cost to import (US\$ per container)	439	954	1,085

Procedures to export	Time (days)	Cost (US\$)
Documents preparation	1	116
Customs clearance and technical control	1	50
Ports and terminal handling	1	150
Inland transportation and handling	2	140
Totals	5	456

Procedures to import	Time (days)	Cost (US\$)
Documents preparation	1	99
Customs clearance and technical control	1	50
Ports and terminal handling	1	150
Inland transportation and handling	1	140
Totals	4	439

TRADING ACROSS BORDERS

Documents to export
Bill of lading
Customs export declaration
Commercial Invoice
Packing List

Documents to import
Bill of lading
Commercial invoice
Customs import declaration
Packing list

ENFORCING CONTRACTS

Well-functioning courts help businesses expand their network and markets. Without effective contract enforcement, people might well do business only with family, friends and others with whom they have established relationships. Where contract enforcement is efficient, firms are more likely to engage with new borrowers or customers, and they have greater access to credit.

What do the indicators cover?

Doing Business measures the efficiency of the judicial system in resolving a commercial dispute before local courts. Following the step-by-step evolution of a standardized case study, it collects data relating to the time, cost and procedural complexity of resolving a commercial lawsuit. The ranking on the ease of enforcing contracts is the simple average of the percentile rankings on its component indicators: procedures, time and cost.

The dispute in the case study involves the breach of a sales contract between 2 domestic businesses. The case study assumes that the court hears an expert on the quality of the goods in dispute. This distinguishes the case from simple debt enforcement. To make the data comparable across economies, *Doing Business* uses several assumptions about the case:

- The seller and buyer are located in the economy's largest business city.
- The buyer orders custom-made goods, then fails to pay.
- The seller sues the buyer before a competent court.
- The value of the claim is 200% of income per capita.
- The seller requests a pretrial attachment to secure the claim.

WHAT THE ENFORCING CONTRACTS INDICATORS MEASURE

Procedures to enforce a contract through the courts (number)

Any interaction between the parties in a commercial dispute, or between them and the judge or court officer

Steps to file and serve the case

Steps for trial and judgment

Steps to enforce the judgment

Time required to complete procedures (calendar days)

Time to file and serve the case

Time for trial and obtaining judgment

Time to enforce the judgment

Cost required to complete procedures (% of claim)

No bribes

Average attorney fees

Court costs, including expert fees

Enforcement costs

- The dispute on the quality of the goods requires an expert opinion.
- The judge decides in favor of the seller; there is no appeal.
- The seller enforces the judgment through a public sale of the buyer's movable assets.

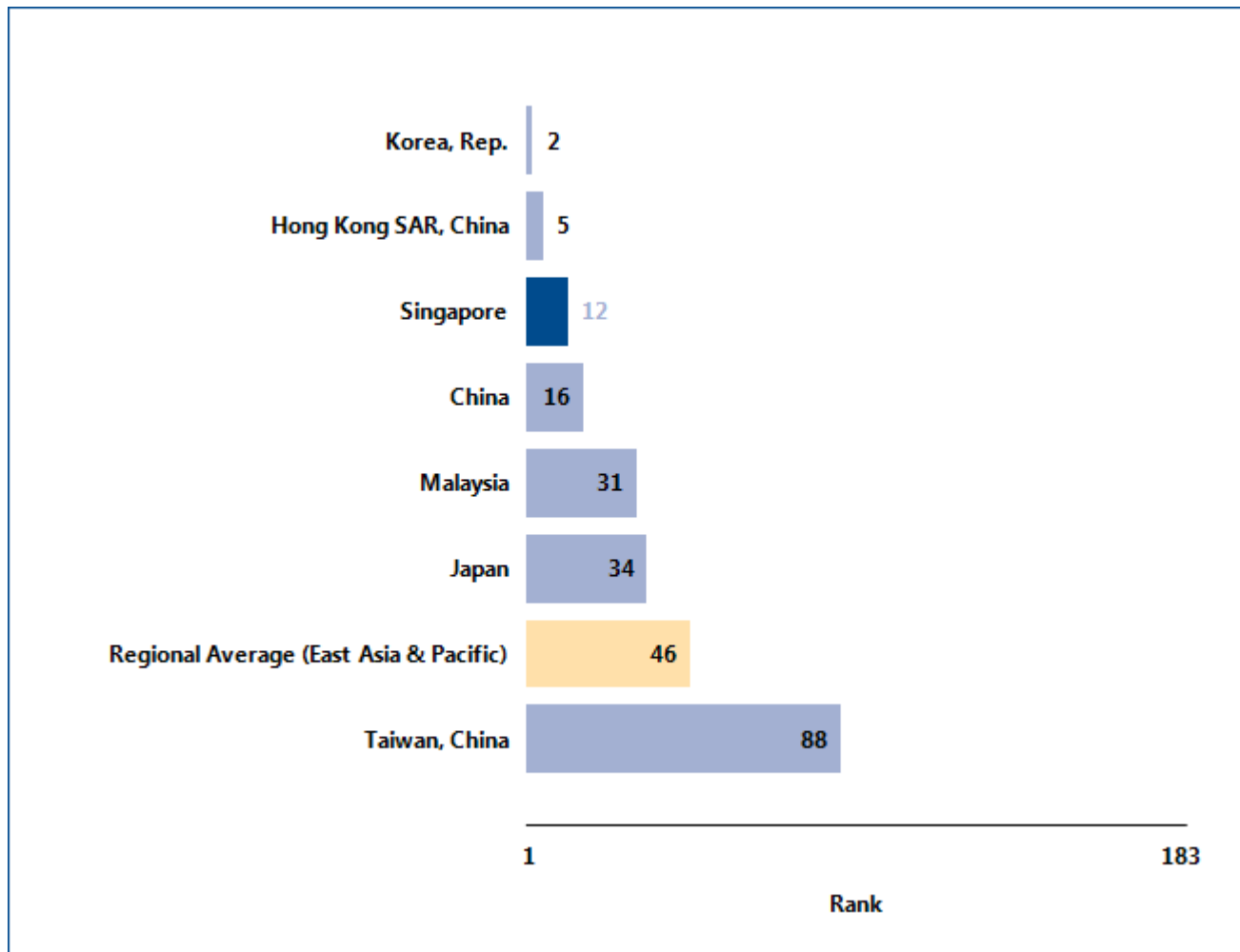
ENFORCING CONTRACTS

Where does the economy stand today?

How efficient is the process of resolving a commercial dispute through the courts in Singapore? According to data collected by *Doing Business*, enforcing a contract requires 21 procedures, takes 150 days and costs 25.8% of the value of the claim (see the summary at the end of this chapter for details).

Globally, Singapore stands at 12 in the ranking of 183 economies on the ease of enforcing contracts (figure 10.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of contract enforcement in Singapore.

Figure 10.1 How Singapore and comparator economies rank on the ease of enforcing contracts



Source: *Doing Business* database.

ENFORCING CONTRACTS

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to enforce a contract in Singapore today, data on the underlying indicators

over time help identify which areas have changed and where the potential for improvement is greatest (table 10.1).

Table 10.1 The ease of enforcing contracts in Singapore over time
By *Doing Business* report year

Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	..	..	13	12
Time (days)	120	120	120	120	120	150	150	150	150
Cost (% of claim)	17.8	17.8	17.8	17.8	17.8	25.8	25.8	25.8	25.8
Procedures (number)	21	21	21	21	21	21	21	21	21

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: *Doing Business* database.

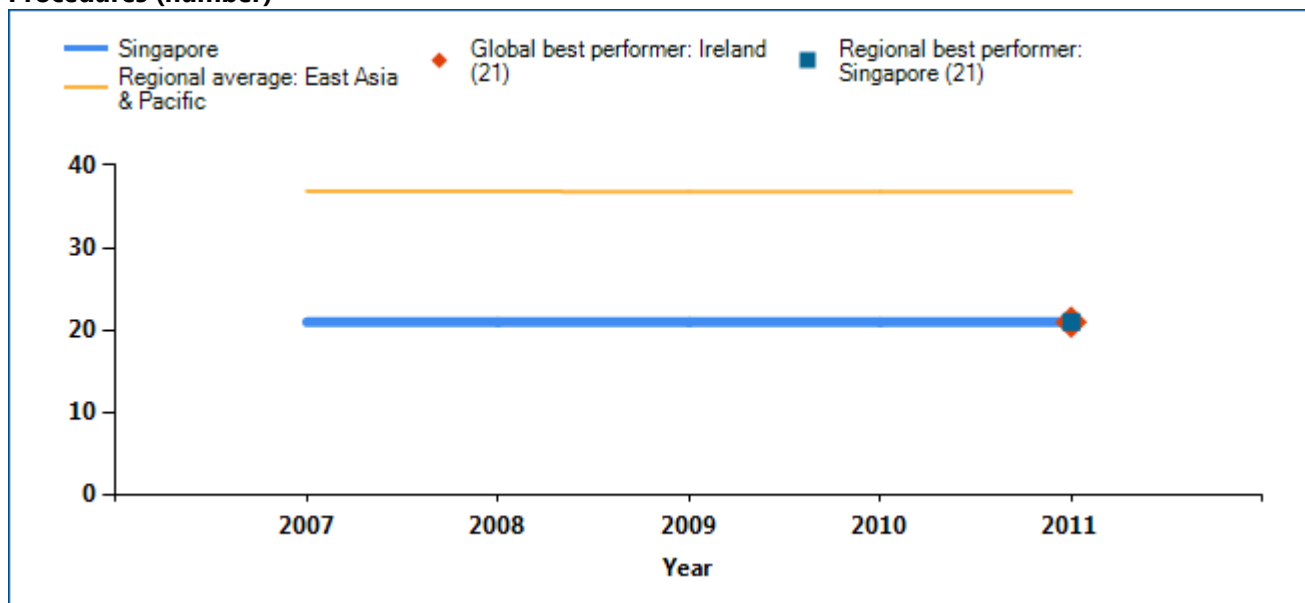
ENFORCING CONTRACTS

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the number of steps, time or cost required to enforce a contract through the courts (figure 10.2). These economies may provide a model

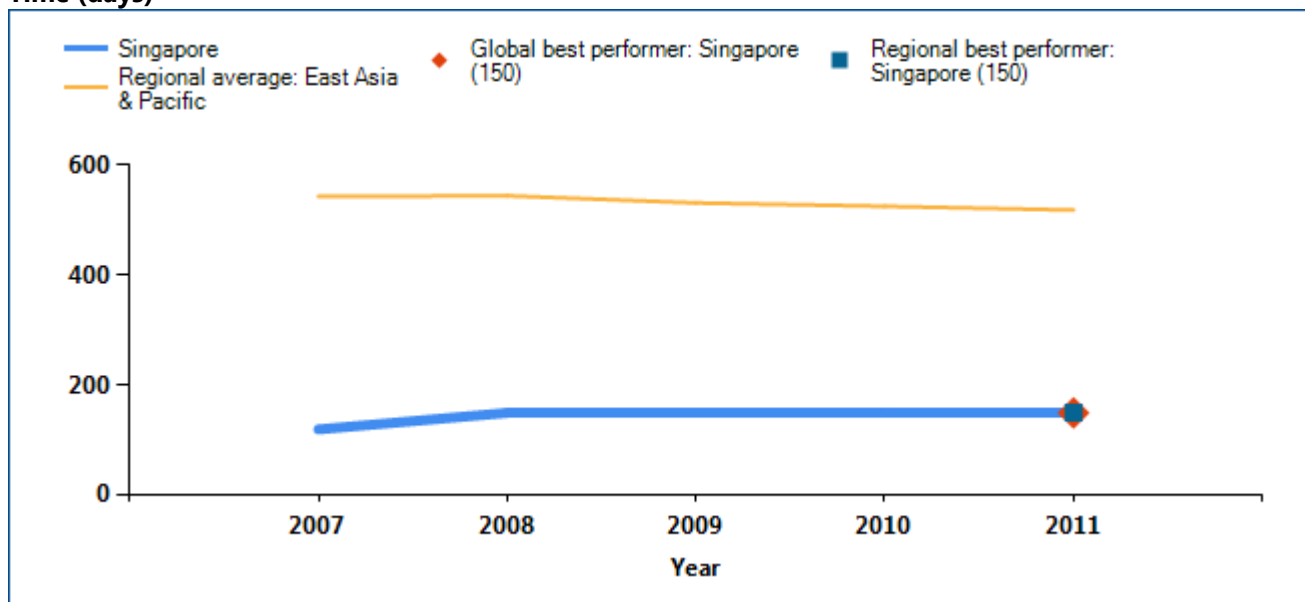
for Singapore on ways to improve the efficiency of contract enforcement. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 10.2 Has enforcing contracts become easier over time?

Procedures (number)

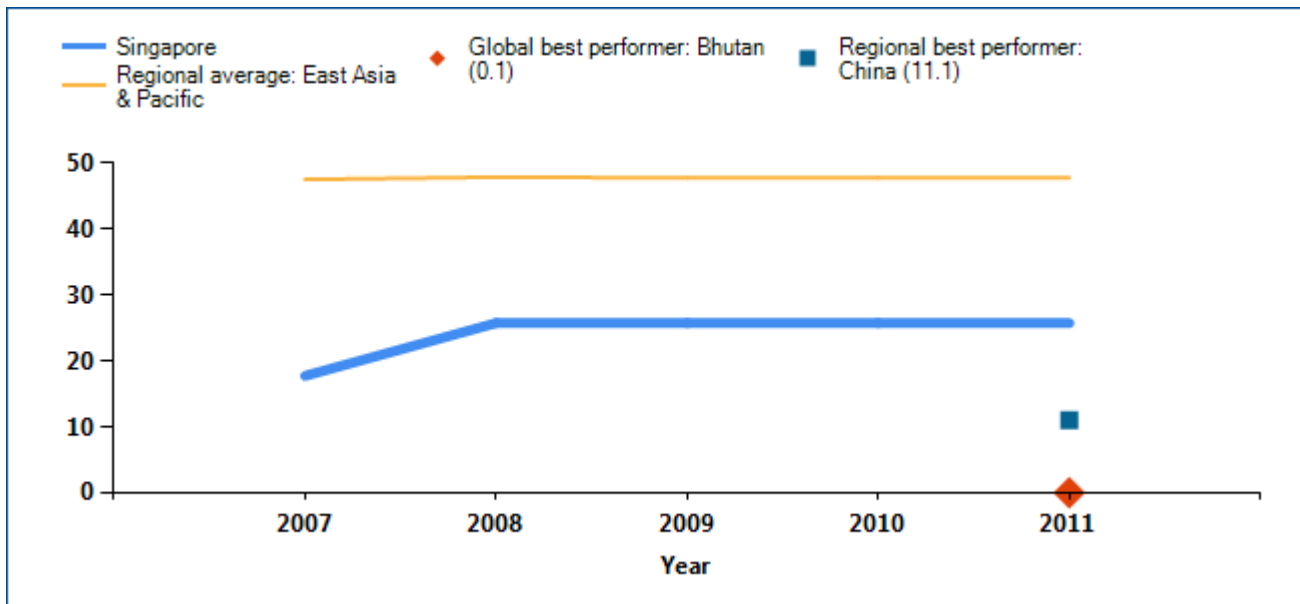


Time (days)



ENFORCING CONTRACTS

Cost (% of claim)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator.

Source: *Doing Business* database.

ENFORCING CONTRACTS

Economies in all regions have improved contract enforcement in recent years. A judiciary can be improved in different ways. Higher-income economies tend to look for ways to enhance efficiency by introducing new technology. Lower-income economies

often work on reducing backlogs by introducing periodic reviews to clear inactive cases from the docket and by making procedures faster. What reforms making it easier (or more difficult) to enforce contracts has *Doing Business* recorded in Singapore (table 10.2)?

Table 10.2 How has Singapore made enforcing contracts easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2005), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

ENFORCING CONTRACTS

What are the details?

The indicators reported here for Singapore are based on a set of specific procedural steps required to resolve a standardized commercial dispute through the courts (see the section in this chapter on what the indicators cover). These procedures, and the time and cost of completing them, are identified through study of the codes of civil procedure and other court

regulations, as well as through surveys completed by local litigation lawyers (and, in a quarter of the economies covered by *Doing Business*, by judges as well). The procedures for resolving a commercial lawsuit, and the associated time and cost, are listed in the summary below.

Summary of procedures for enforcing a contract in Singapore—and the time and cost

Indicator	Singapore	East Asia & Pacific	OECD high income
Time (days)	150	518.71	518.03
Filing and service	6		
Trial and judgment	118		
Enforcement of judgment	26		
Cost (% of claim)	25.8	47.79	19.71
Attorney cost (% of claim)	20.92880984		
Court cost (% of claim)	2.8		
Enforcement Cost (% of claim)	2.057590718		
Procedures (number)	21	36.75	31.42

Source: *Doing Business* database.

RESOLVING INSOLVENCY

A robust bankruptcy system functions as a filter, ensuring the survival of economically efficient companies and reallocating the resources of inefficient ones. Fast and cheap insolvency proceedings result in the speedy return of businesses to normal operation and increase returns to creditors. By improving the expectations of creditors and debtors about the outcome of insolvency proceedings, well-functioning insolvency systems can facilitate access to finance, save more viable businesses and thereby improve growth and sustainability in the economy overall.

What do the indicators cover?

Doing Business studies the time, cost and outcome of insolvency proceedings involving domestic entities. It does not measure insolvency proceedings of individuals and financial institutions. The data are derived from survey responses by local insolvency practitioners and verified through a study of laws and regulations as well as public information on bankruptcy systems.

The ranking on the ease of resolving insolvency is based on the recovery rate, which is recorded as cents on the dollar recouped by creditors through reorganization, liquidation or debt enforcement (foreclosure) proceedings. The recovery rate is a function of time, cost and other factors, such as lending rate and the likelihood of the company continuing to operate.

To make the data comparable across economies, *Doing Business* uses several assumptions about the business and the case. It assumes that the company:

- Is a domestically owned, limited liability company operating a hotel.
- Operates in the economy's largest business city.

WHAT THE RESOLVING INSOLVENCY INDICATORS MEASURE

Time required to recover debt (years)

Measured in calendar years

Appeals and requests for extension are included

Cost required to recover debt (% of debtor's estate)

Measured as percentage of estate value

Court fees

Fees of insolvency administrators

Lawyers' fees

Assessors' and auctioneers' fees

Other related fees

Recovery rate for creditors (cents on the dollar)

Measures the cents on the dollar recovered by creditors

Present value of debt recovered

Official costs of the insolvency proceedings are deducted

Depreciation of furniture is taken into account

Outcome for the business (survival or not) affects the maximum value that can be recovered

- Has 201 employees, 1 main secured creditor and 50 unsecured creditors.
- Has a higher value as a going concern—and the efficient outcome is either reorganization or sale as a going concern, not piecemeal liquidation.

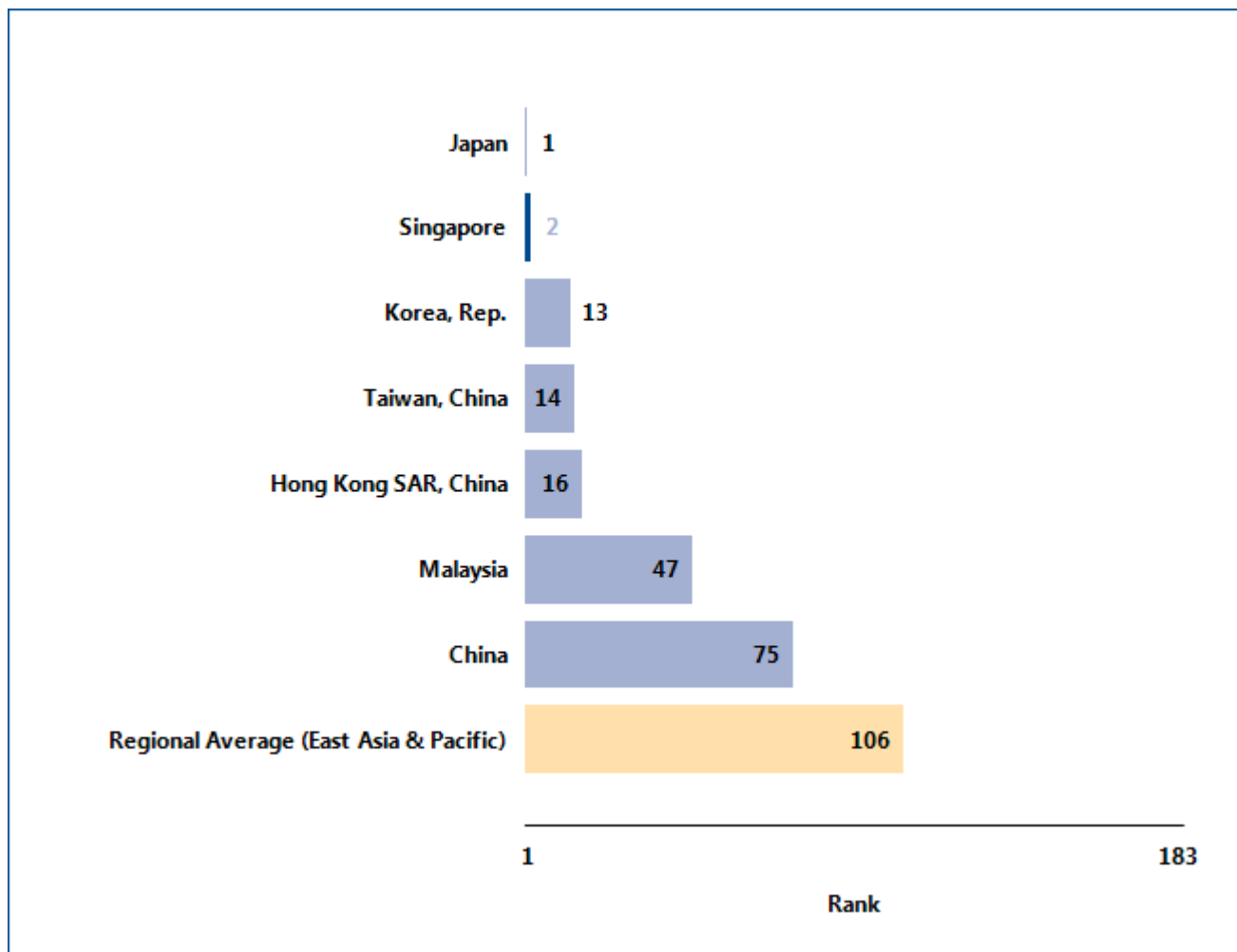
RESOLVING INSOLVENCY

Where does the economy stand today?

Speed, low costs and continuation of viable businesses characterize the top-performing economies. How efficient are insolvency proceedings in Singapore? According to data collected by *Doing Business*, resolving insolvency takes 0.8 years on average and costs 1% of the debtor's estate. The average recovery rate is 91.3 cents on the dollar.

Globally, Singapore stands at 2 in the ranking of 183 economies on the ease of resolving insolvency (figure 11.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of insolvency proceedings in Singapore.

Figure 11.1 How Singapore and comparator economies rank on the ease of resolving insolvency



Source: *Doing Business* database.

RESOLVING INSOLVENCY

What are the changes over time?

While the most recent *Doing Business* data reflect the efficiency of insolvency proceedings in Singapore today, data over time show where the efficiency has

changed—and where it has not (table 11.1). That can help identify where the potential for improvement is greatest.

Table 11.1 The ease of resolving insolvency in Singapore over time
By *Doing Business* report year

Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank	..	..	..	..	..	..	..	2	2
Time (years)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
Cost (% of estate)	1	1	1	1	1	1	1	1	1
Recovery rate (cents on the dollar)	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. "No practice" indicates that in each of the previous 5 years the economy had no cases involving a judicial reorganization, judicial liquidation or debt enforcement procedure (foreclosure). This means that creditors are unlikely to recover their money through a formal legal process (in or out of court). The recovery rate for "no practice" economies is 0.

Source: *Doing Business* database.

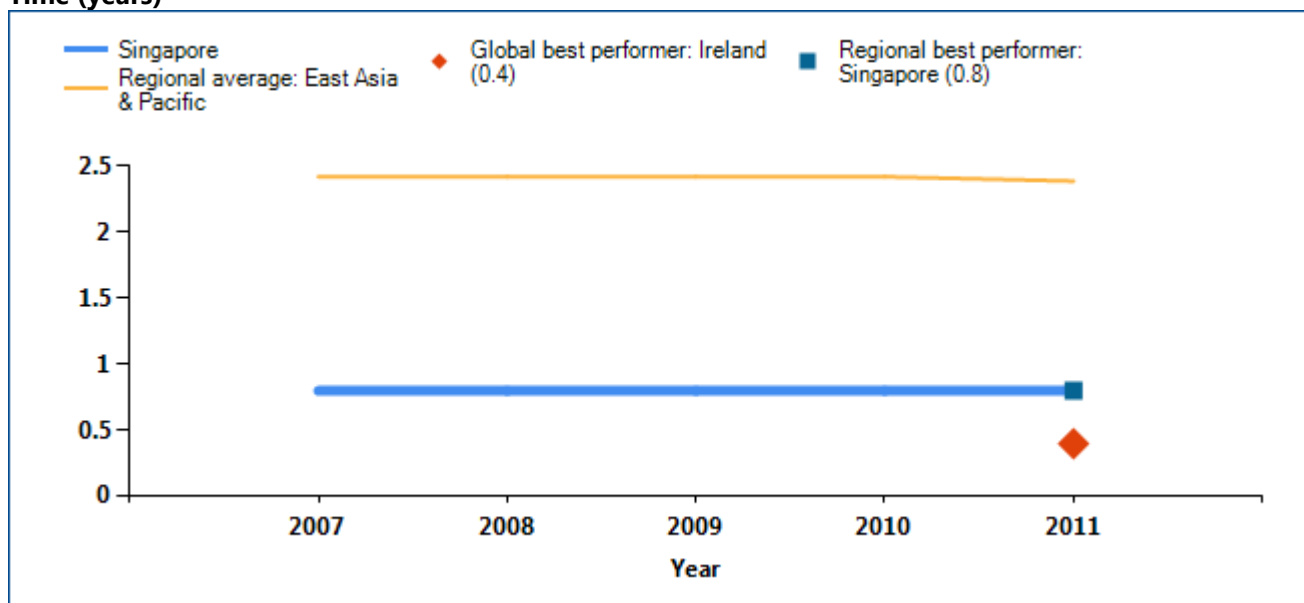
RESOLVING INSOLVENCY

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the time or cost of insolvency proceedings or on the recovery rate (figure 11.2). These economies may provide a model for Singapore

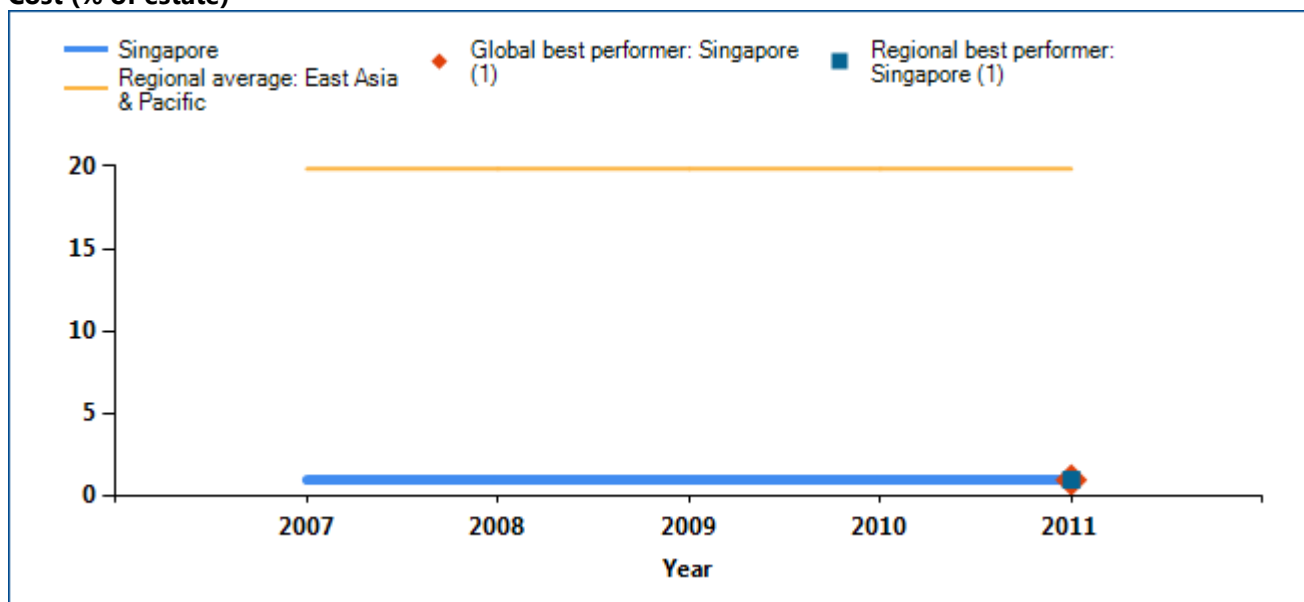
on ways to improve the efficiency of insolvency proceedings. And changes in regional averages can show where Singapore is keeping up—and where it is falling behind.

Figure 11.2 Has resolving insolvency become easier over time?

Time (years)

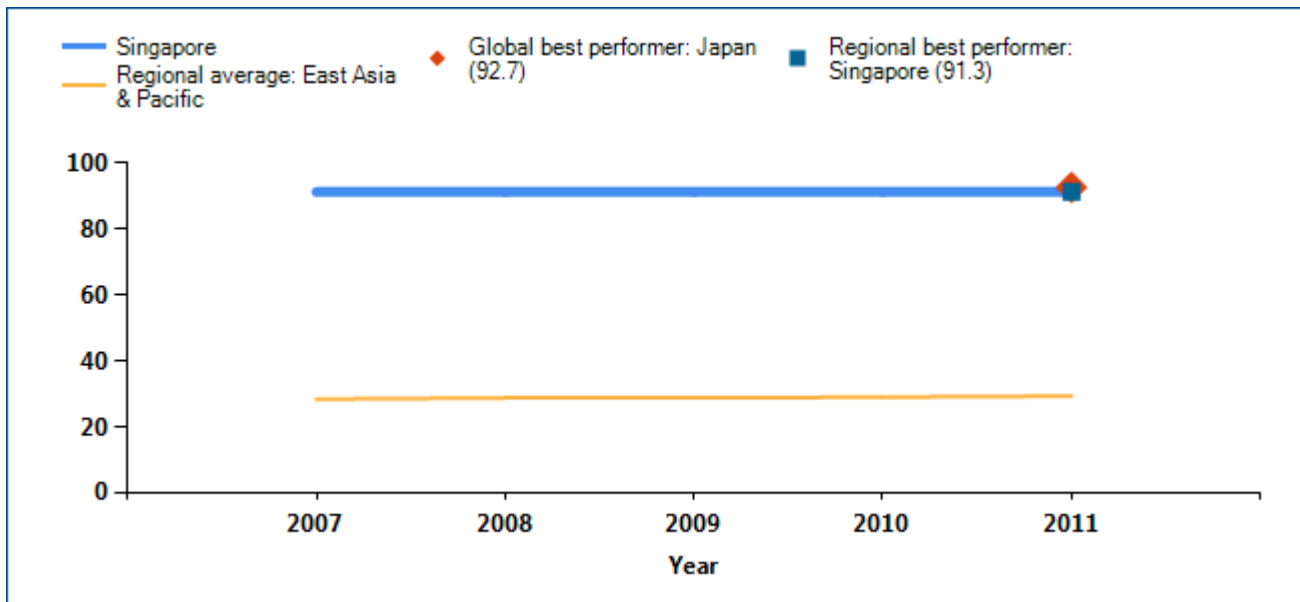


Cost (% of estate)



RESOLVING INSOLVENCY

Recovery rate (cents on the dollar)



Note: The economy with the best performance regionally on each indicator, and the economy with the best performance globally, are included as benchmarks. In some cases 2 or more economies share the top regional or global ranking on an indicator. In cases where no data are displayed above for the economy, this indicates that the economy has received a “no practice” mark; see the data notes for details.

Source: *Doing Business* database.

RESOLVING INSOLVENCY

A well-balanced bankruptcy system distinguishes companies that are financially distressed but economically viable from inefficient companies that should be liquidated. But in some insolvency systems even viable businesses are liquidated. This is starting to

change. Many recent reforms of bankruptcy laws have been aimed at helping more of the viable businesses survive. What insolvency reforms has *Doing Business* recorded in Singapore (table 11.2)?

Table 11.2 How has Singapore made resolving insolvency easier—or not?
By *Doing Business* report year

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

Note: For information on reforms in earlier years (back to DB2005), see the *Doing Business* reports for these years, available at <http://www.doingbusiness.org>.

Source: *Doing Business* database.

DATA NOTES

The indicators presented and analyzed in *Doing Business* measure business regulation and the protection of property rights—and their effect on businesses, especially small and medium-size domestic firms. First, the indicators document the complexity of regulation, such as the number of procedures to start a business or to register and transfer commercial property. Second, they gauge the time and cost of achieving a regulatory goal or complying with regulation, such as the time and cost to enforce a contract, go through bankruptcy or trade across borders. Third, they measure the extent of legal protections of property, for example, the protections of investors against looting by company directors or the range of assets that can be used as collateral according to secured transactions laws. Fourth, a set of indicators documents the tax burden on businesses. Finally, a set of data covers different aspects of employment regulation.

The data for all sets of indicators in *Doing Business 2012* are for June 2011.³

Methodology

The *Doing Business* data are collected in a standardized way. To start, the *Doing Business* team, with academic advisers, designs a questionnaire. The questionnaire uses a simple business case to ensure comparability across economies and over time—with assumptions about the legal form of the business, its size, its location and the nature of its operations. Questionnaires are administered through more than 9,028 local experts, including lawyers, business consultants, accountants, freight forwarders, government officials and other professionals routinely administering or advising on legal and regulatory requirements. These experts have several rounds of interaction with the *Doing Business* team, involving conference calls, written correspondence and visits by the team. For *Doing Business 2012* team members visited 40 economies to verify data and recruit respondents. The data from questionnaires are subjected to numerous rounds of verification, leading to revisions or expansions of the information collected.

³ The data for paying taxes refer to January – December 2010.

ECONOMY CHARACTERISTICS

Gross national income (GNI) per capita

Doing Business 2012 reports 2010 income per capita as published in the World Bank's *World Development Indicators 2011*. Income is calculated using the Atlas method (current US\$). For cost indicators expressed as a percentage of income per capita, 2010 GNI in U.S. dollars is used as the denominator. Data were not available from the World Bank for Afghanistan; Australia; The Bahamas; Bahrain; Brunei Darussalam; Canada; Cyprus; Djibouti; the Islamic Republic of Iran; Kuwait; New Zealand; Oman; Puerto Rico (territory of the United States); Qatar; Saudi Arabia; Suriname; Taiwan, China; the United Arab Emirates; West Bank and Gaza; and the Republic of Yemen. In these cases GDP or GNP per capita data and growth rates from the International Monetary Fund's World Economic Outlook database and the Economist Intelligence Unit were used.

Region and income group

Doing Business uses the World Bank regional and income group classifications, available at <http://www.worldbank.org/data/countryclass>. The World Bank does not assign regional classifications to high-income economies. For the purpose of the *Doing Business* report, high-income OECD economies are assigned the "regional" classification *OECD high income*. Figures and tables presenting regional averages include economies from all income groups (low, lower middle, upper middle and high income).

Population

Doing Business 2012 reports midyear 2010 population statistics as published in *World Development Indicators 2011*.

The *Doing Business* methodology offers several advantages. It is transparent, using factual information about what laws and regulations say and allowing multiple interactions with local respondents to clarify potential misinterpretations of questions. Having representative samples of respondents is not an issue;

Doing Business is not a statistical survey, and the texts of the relevant laws and regulations are collected and answers checked for accuracy. The methodology is inexpensive and easily replicable, so data can be collected in a large sample of economies. Because standard assumptions are used in the data collection, comparisons and benchmarks are valid across economies. Finally, the data not only highlight the extent of specific regulatory obstacles to business but also identify their source and point to what might be reformed.

Information on the methodology for each *Doing Business* topic can be found on the *Doing Business* website at <http://www.doingbusiness.org/methodology/>.

Limits to what is measured

The *Doing Business* methodology has 5 limitations that should be considered when interpreting the data. First, the collected data refer to businesses in the economy's largest business city and may not be representative of regulation in other parts of the economy. To address this limitation, subnational *Doing Business* indicators were created (see the section on subnational *Doing Business* indicators). Second, the data often focus on a specific business form—generally a limited liability company (or its legal equivalent) of a specified size—and may not be representative of the regulation on other businesses, for example, sole proprietorships. Third, transactions described in a standardized case scenario refer to a specific set of issues and may not represent the full set of issues a business encounters. Fourth, the measures of time involve an element of judgment by the expert respondents. When sources indicate different estimates, the time indicators reported in *Doing Business* represent the median values of several responses given under the assumptions of the standardized case.

Finally, the methodology assumes that a business has full information on what is required and does not waste time when completing procedures. In practice, completing a procedure may take longer if the business lacks information or is unable to follow up promptly. Alternatively, the business may choose to disregard some burdensome procedures. For both reasons the time delays reported in *Doing Business 2012* would differ from the recollection of

entrepreneurs reported in the World Bank Enterprise Surveys or other perception surveys.

Subnational *Doing Business* indicators

This year *Doing Business* published a subnational study for the Philippines and a regional report for Southeast Europe covering 7 economies (Albania, Bosnia and Herzegovina, Kosovo, the former Yugoslav Republic of Macedonia, Moldova, Montenegro and Serbia) and 22 cities. It also published a city profile for Juba, in the Republic of South Sudan.

The subnational studies point to differences in business regulation and its implementation—as well as in the pace of regulatory reform—across cities in the same economy. For several economies subnational studies are now periodically updated to measure change over time or to expand geographic coverage to additional cities. This year that is the case for the subnational studies in the Philippines; the regional report in Southeast Europe; the ongoing studies in Italy, Kenya and the United Arab Emirates; and the projects implemented jointly with local think tanks in Indonesia, Mexico and the Russian Federation.

Besides the subnational *Doing Business* indicators, *Doing Business* conducted a pilot study this year on the second largest city in 3 large economies to assess within-country variations. The study collected data for Rio de Janeiro in addition to São Paulo in Brazil, for Beijing in addition to Shanghai in China and for St. Petersburg in addition to Moscow in Russia.

Changes in what is measured

The methodology for 3 of the *Doing Business* topics was updated this year—getting credit, dealing with construction permits and paying taxes.

First, for getting credit, the scoring of one of the 10 components of the strength of legal rights index was amended to recognize additional protections of secured creditors and borrowers. Previously the highest score of 1 was assigned if secured creditors were not subject to an automatic stay or moratorium on enforcement procedures when a debtor entered a court-supervised reorganization procedure. Now the highest score of 1 is also assigned if the law provides secured creditors with grounds for relief from an

automatic stay or moratorium (for example, if the movable property is in danger) or sets a time limit for the automatic stay.

Second, because the ease of doing business index now includes the getting electricity indicators, procedures, time and cost related to obtaining an electricity connection were removed from the dealing with construction permits indicators.

Third, a threshold has been introduced for the total tax rate for the purpose of calculating the ranking on the ease of paying taxes. All economies with a total tax rate below the threshold (which will be calculated and adjusted on a yearly basis) will now receive the same ranking on the total tax rate indicator. The threshold is not based on any underlying theory. Instead, it is meant to emphasize the purpose of the indicator: to highlight economies where the tax burden on business is high relative to the tax burden in other economies. Giving the same ranking to all economies whose total tax rate is below the threshold avoids awarding economies in the scoring for having an unusually low total tax rate, often for reasons unrelated to government policies toward enterprises. For example, economies that are very small or that are rich in natural resources do not need to levy broad-based taxes.

Data challenges and revisions

Most laws and regulations underlying the *Doing Business* data are available on the *Doing Business* website at <http://www.doingbusiness.org>. All the sample questionnaires and the details underlying the indicators are also published on the website. Questions on the methodology and challenges to data can be submitted through the website's "Ask a Question" function at <http://www.doingbusiness.org>.

Ease of doing business and distance to frontier

This year's report presents results for 2 aggregate measures: the aggregate ranking on the ease of doing business and a new measure, the "distance to frontier." While the ease of doing business ranking compares economies with one another at a point in time, the distance to frontier measure shows how much the

regulatory environment for local entrepreneurs in each economy has changed over time.

Ease of doing business

The ease of doing business index ranks economies from 1 to 183. For each economy the ranking is calculated as the simple average of the percentile rankings on each of the 10 topics included in the index in *Doing Business 2012*: starting a business, dealing with construction permits, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts, resolving insolvency and, new this year, getting electricity. The employing workers indicators are not included in this year's aggregate ease of doing business ranking. In addition to this year's ranking, *Doing Business* presents a comparable ranking for the previous year, adjusted for any changes in methodology as well as additions of economies or topics.⁴

Construction of the ease of doing business index

Here is one example of how the ease of doing business index is constructed. In the Republic of Korea it takes 5 procedures, 7 days and 14.6% of annual income per capita in fees to open a business. There is no minimum capital required. On these 4 indicators Korea ranks in the 18th, 14th, 53rd and 0 percentiles. So on average Korea ranks in the 21st percentile on the ease of starting a business. It ranks in the 12th percentile on getting credit, 25th percentile on paying taxes, 8th percentile on enforcing contracts, 7th percentile on resolving insolvency and so on. Higher rankings indicate simpler regulation and stronger protection of property rights. The simple average of Korea's percentile rankings on all topics is 21st. When all economies are ordered by their average percentile rankings, Korea stands at 8 in the aggregate ranking on the ease of doing business.

More complex aggregation methods—such as principal components and unobserved components—

⁴ In case of revisions to the methodology or corrections to the underlying data, the data are back-calculated to provide a comparable time series since the year the relevant economy or topic was first included in the data set. The time series is available on the *Doing Business* website (<http://www.doingbusiness.org>). The *Doing Business* report publishes yearly rankings for the year of publication as well as the previous year to shed light on year-to-year developments. Six topics and more than 50 economies have been added since the inception of the project. Earlier rankings on the ease of doing business are therefore not comparable.

yield a ranking nearly identical to the simple average used by *Doing Business*.⁵ Thus, *Doing Business* uses the simplest method: weighting all topics equally and, within each topic, giving equal weight to each of the topic components.⁶

If an economy has no laws or regulations covering a specific area—for example, insolvency—it receives a “no practice” mark. Similarly, an economy receives a “no practice” or “not possible” mark if regulation exists but is never used in practice or if a competing regulation prohibits such practice. Either way, a “no practice” mark puts the economy at the bottom of the ranking on the relevant indicator.

The ease of doing business index is limited in scope. It does not account for an economy’s proximity to large markets, the quality of its infrastructure services (other than services related to trading across borders and getting electricity), the strength of its financial system, the security of property from theft and looting, its macroeconomic conditions or the strength of underlying institutions.

Variability of economies’ rankings across topics

Each indicator set measures a different aspect of the business regulatory environment. The rankings of an economy can vary, sometimes significantly, across indicator sets. The average correlation coefficient between the 10 indicator sets included in the aggregate ranking is 0.36, and the coefficients between any 2 sets of indicators range from 0.17 (between protecting investors and getting electricity) to 0.57 (between starting a business and protecting investors). These correlations suggest that economies rarely score universally well or universally badly on the indicators.

⁵ See Simeon Djankov, Darshini Manraj, Caralee McLiesh and Rita Ramalho, “*Doing Business* Indicators: Why Aggregate, and How to Do It” (World Bank, Washington, DC, 2005). Principal components and unobserved components methods yield a ranking nearly identical to that from the simple average method because both these methods assign roughly equal weights to the topics, since the pairwise correlations among indicators do not differ much. An alternative to the simple average method is to give different weights to the topics, depending on which are considered of more or less importance in the context of a specific economy.

⁶ A technical note on the different aggregation and weighting methods is available on the *Doing Business* website (<http://www.doingbusiness.org>).

Consider the example of Canada. It stands at 12 in the aggregate ranking on the ease of doing business. Its ranking is 3 on both starting a business and resolving insolvency, and 5 on protecting investors. But its ranking is only 59 on enforcing contracts, 42 on trading across borders and 156 on getting electricity.

Variation in performance across the indicator sets is not at all unusual. It reflects differences in the degree of priority that government authorities give to particular areas of business regulation reform and the ability of different government agencies to deliver tangible results in their area of responsibility.

Economies that improved the most across 3 or more Doing Business topics in 2010/11

Doing Business 2012 uses a simple method to calculate which economies improved the most in the ease of doing business. First, it selects the economies that in 2010/11 implemented regulatory reforms making it easier to do business in 3 or more of the 10 topics included in this year’s ease of doing business ranking.⁷ Thirty economies meet this criterion: Armenia, Burkina Faso, Burundi, Cape Verde, the Central African Republic, Chile, Colombia, the Democratic Republic of Congo, Côte d’Ivoire, The Gambia, Georgia, Korea, Latvia, Liberia, FYR Macedonia, Mexico, Moldova, Montenegro, Morocco, Nicaragua, Oman, Peru, Russia, São Tomé and Príncipe, Senegal, Sierra Leone, Slovenia, the Solomon Islands, South Africa and Ukraine. Second, *Doing Business* ranks these economies on the increase in their ranking on the ease of doing business from the previous year using comparable rankings.

Selecting the economies that implemented regulatory reforms in at least 3 topics and improved the most in the aggregate ranking is intended to highlight economies with ongoing, broad-based reform programs.

Distance to frontier measure

This year’s report introduces a new measure to illustrate how the regulatory environment for local businesses in each economy has changed over time. The distance to frontier measure illustrates the distance of an economy to the “frontier” and shows

⁷ *Doing Business* reforms making it more difficult to do business are subtracted from the total number of those making it easier to do business.

the extent to which the economy has closed this gap over time. The frontier is a score derived from the most efficient practice or highest score achieved on each of the component indicators in 9 *Doing Business* indicator sets (excluding the employing workers and getting electricity indicators) by any economy since 2005. In starting a business, for example, New Zealand has achieved the highest performance on the time (1 day), Canada and New Zealand on the number of procedures required (1), Denmark and Slovenia on the cost (0% of income per capita) and Australia on the paid-in minimum capital requirement (0% of income per capita).

Calculating the distance to frontier for each economy involves 2 main steps. First, individual indicator scores are normalized to a common unit. To do so, each of the 32 component indicators y is rescaled to $(y - \min)/(\max - \min)$, with the minimum value (min) representing the frontier—the highest performance on that indicator across all economies since 2005. Second, for each economy the scores obtained for individual indicators are aggregated through simple averaging into one distance to frontier score. An economy's distance to the frontier is indicated on a scale from 0 to 100, where 0 represents the frontier and 100 the lowest performance.

The difference between an economy's distance to frontier score in 2005 and its score in 2011 illustrates the extent to which the economy has closed the gap to the frontier over time.

The maximum (max) and minimum (min) observed values are computed for the 174 economies included in the *Doing Business* sample since 2005 and for all years (from 2005 to 2011). The year 2005 was chosen as the baseline for the economy sample because it was the first year in which data were available for the majority of economies (a total of 174) and for all 9 indicator sets included in the measure. To mitigate the effects of extreme outliers in the distributions of the rescaled data (very few economies need 694 days to complete the procedures to start a business, but many need 9 days), the maximum (max) is defined as the 95th percentile of the pooled data for all economies and all years for each indicator.

Take Colombia, which has a score of 0.21 on the distance to frontier measure for 2011. This score indicates that the economy is 21 percentage points away from the frontier constructed from the best performances across all economies and all years. Colombia was further from the frontier in 2005, with a score of 0.43. The difference between the scores shows an improvement over time.

RESOURCES ON THE *DOING BUSINESS* WEBSITE

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<http://www.doingbusiness.org>

Rankings

How economies rank—from 1 to 183

<http://www.doingbusiness.org/rankings/>

Reports

Access to *Doing Business* reports as well as subnational and regional reports, reform case studies and customized economy and regional profiles

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Methodology

The methodologies and research papers underlying *Doing Business*

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Abstracts of papers on *Doing Business* topics and related policy issues

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Short summaries of DB2012 business regulation reforms, lists of reforms since DB2008 and a ranking simulation tool

<http://www.doingbusiness.org/reforms/>

Historical data

Customized data sets since DB2004

<http://www.doingbusiness.org/custom-query/>

Law library

Online collection of business laws and regulations relating to business and gender issues

<http://www.doingbusiness.org/law-library/>

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