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# Doing Business 2016

## Measuring Regulatory Quality and Efficiency

### Regional Profile 2016

#### East Asia and the Pacific (EAP)

responsabilité juridique

bureau de crédit **единое окно**

**прозрачность** — 一站式服务

**تحديد مهل زمنية** **oficina de crédito**

**balcão único**  
在线服务

**collateral registry**

**single window liability**

نافذة موحدّة

transparency

**сроки**

征信中心

**реестр залогового обеспечения**

**مكتب الائتمان** **one stop shop**

**servicios en línea**

**services en ligne**

**transparência**

**en línea**

**реорганизация**

**credit bureau**

**reorganización**

**سجل الضمانات**

**transparencia**

**guichet unique**

**设置办理时限**

**responsabilidade jurídica**

**مسؤولية**

**重组**

**reorganization**

**registro de garantías**

COMPARING BUSINESS REGULATION FOR DOMESTIC FIRMS IN 189 ECONOMIES

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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 11 areas in the life cycle of a business: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting minority investors, paying taxes, trading across borders, enforcing contracts, resolving insolvency and labor market regulation. *Doing Business 2016* presents the data for the labor market regulation indicators in an annex. The report does not present rankings of economies on labor market regulation indicators or include the topic in the aggregate distance to frontier score or ranking on the ease of doing business.

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 189 economies, from Afghanistan to Zimbabwe, over time. The data set covers 47 economies in Sub-Saharan Africa, 32 in Latin America and the Caribbean, 25 in East Asia and the Pacific, 25 in Eastern Europe and Central Asia, 20 in the Middle East and North Africa and 8 in South Asia, as well as 32 OECD high-income economies. The indicators are used to analyze economic outcomes and identify what reforms have worked, where and why.

This regional profile presents the *Doing Business* indicators for economies in East Asia and the Pacific (EAP). It also shows the regional average, the best

performance globally for each indicator and data for the following comparator regions: Europe and Central Asia (ECA), European Union (EU), Latin America, South Asia (SA) and OECD High Income.. The data in this report are current as of June 1, 2015 (except for the paying taxes indicators, which cover the period January–December 2014).

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 2016* presents the indicators, analyzes their relationship with economic outcomes and recommends regulatory reforms. The data, along with information on ordering the *Doing Business 2016* report, are available on the *Doing Business* website at <http://www.doingbusiness.org>.

## THE BUSINESS ENVIRONMENT

### CHANGES IN *DOING BUSINESS 2016*

As part of a two-year update in methodology, *Doing Business 2016* expands the focus of five indicator sets (dealing with construction permits, getting electricity, registering property, enforcing contracts and labor market regulation), substantially revises the methodology for one indicator set (trading across borders) and implements small updates to the methodology for another (protecting minority investors).

The indicators on dealing with construction permits now include an index of the quality of building regulation and its implementation. The getting electricity indicators now include a measure of the price of electricity consumption and an index of the reliability of electricity supply and transparency of tariffs. Starting this year, the registering property indicators include an index of the quality of the land administration system in each economy in addition to the indicators on the number of procedures and the time and cost to transfer property. And for enforcing contracts an index of the quality and efficiency of judicial processes has been added while the indicator on the number of procedures to enforce a contract has been dropped.

The scope of the labor market regulation indicator set has also been expanded, to include more areas capturing aspects of job quality. The labor market regulation indicators continue to be excluded from the aggregate distance to frontier score and ranking on the ease of doing business.

The case study underlying the trading across borders indicators has been changed to increase its relevance. For each economy the export product and partner are now determined on the basis of the economy's comparative advantage, the import product is auto parts, and the import partner is selected on the basis of which economy has the highest trade value in that product. The indicators continue to measure the time and cost to export and import.

Beyond these changes there is one other update in methodology, for the protecting minority investors indicators. A few points for the extent of shareholder governance index have been fine-tuned, and the index now also measures aspects of the regulations applicable to limited companies rather than privately held joint stock companies.

For more details on the changes, see the "What is changing in *Doing Business*?" chapter starting on page 27 of the *Doing Business 2016* report. For more details on the data and methodology, please see the "Data Notes" chapter starting on page 119 of the *Doing Business 2016* report. For more details on the distance to frontier metric, please see the "Distance to frontier and ease of doing business ranking" chapter in this profile.

## THE BUSINESS ENVIRONMENT

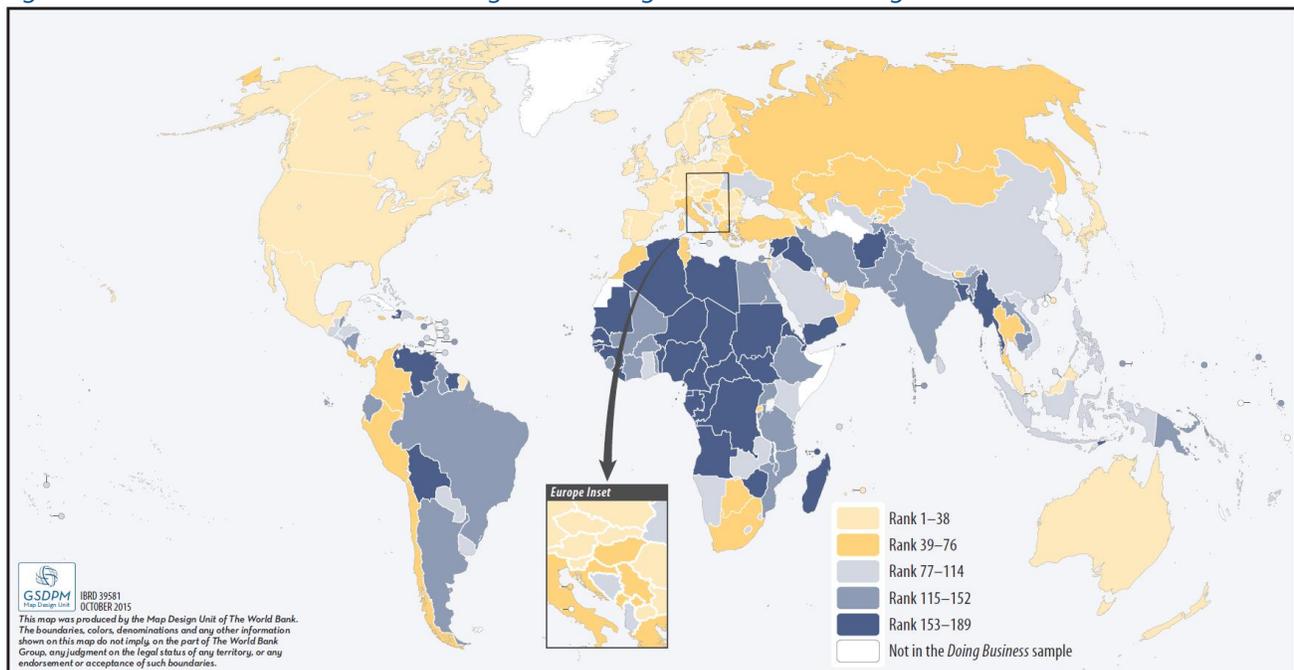
For policy makers trying to improve their economy's regulatory environment for business, a good place to start is to find out how it compares with the regulatory environment in other economies. Doing Business provides an aggregate ranking on the ease of doing business based on indicator sets that measure and benchmark regulations applying to domestic small to medium-size businesses through their life cycle. Economies are ranked from 1 to 189 by the ease of doing business ranking. Doing Business presents results for 2 aggregate measures: the distance to frontier score and the ease of doing business ranking. The ranking of economies is determined by sorting the aggregate distance to frontier scores, rounded to two decimals. An economy's distance to frontier score is indicated on a scale from 0 to 100, where 0 represents the worst performance and 100 the frontier. (See the chapter on the distance to frontier and ease of doing business).

The 10 topics included in the ranking in *Doing Business* 2016: starting a business, dealing with construction

permits, getting electricity, registering property, getting credit, protecting minority investors, paying taxes, trading across borders, enforcing contracts and resolving insolvency. The labor market regulation indicators are not included in this year's aggregate ease of doing business ranking, but the data are presented in the economy profile.

The ease of doing business ranking compares economies with one another; the distance to frontier score benchmarks economies with respect to regulatory best practice, showing the absolute distance to the best performance on each Doing Business indicator. When compared across years, the distance to frontier score shows how much the regulatory environment for local entrepreneurs in an economy has changed over time in absolute terms, while the ease of doing business ranking can show only how much the regulatory environment has changed relative to that in other economies.

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

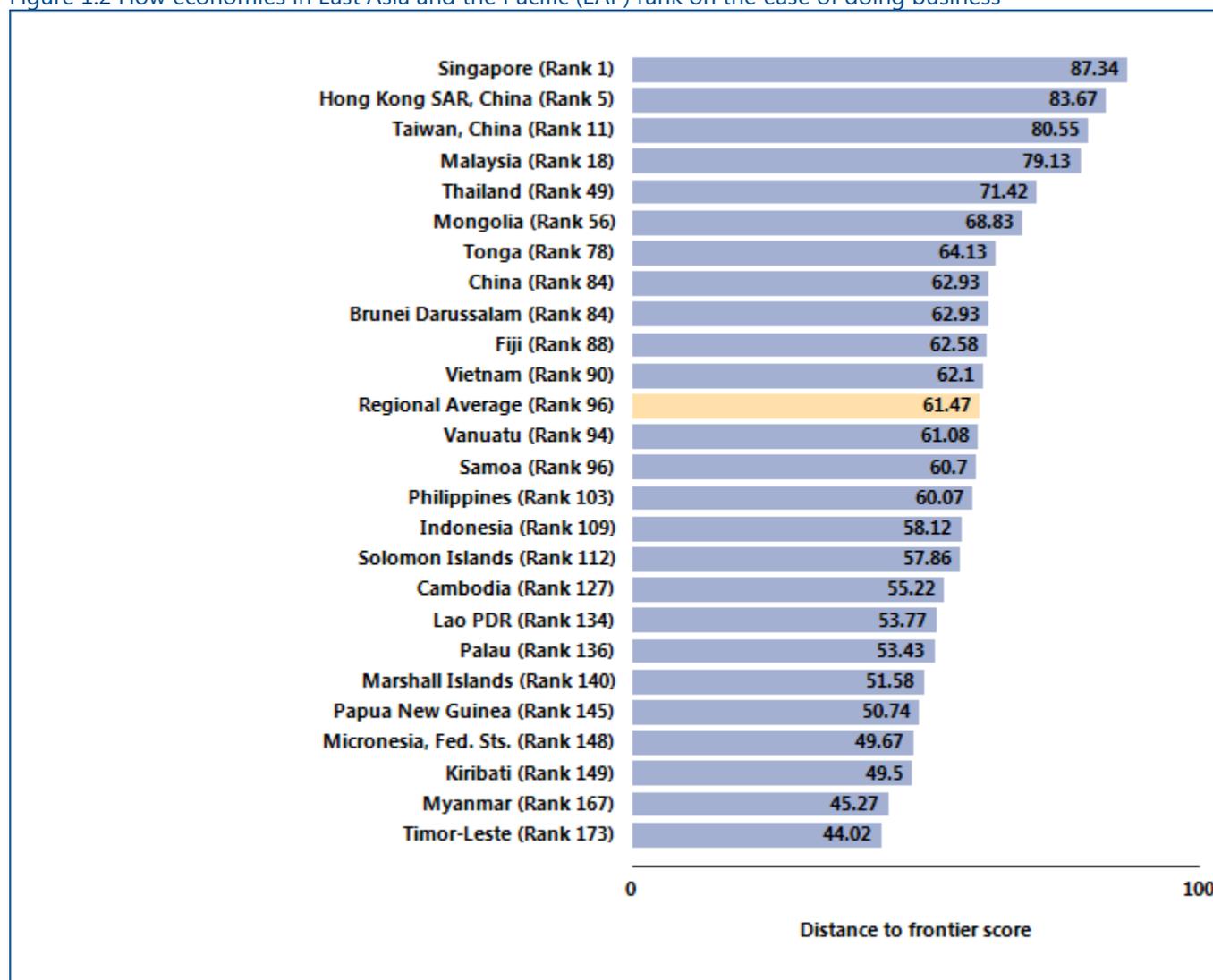


Source: *Doing Business* database.

## 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 in the region and compared with the regional average (figure 1.2). Another perspective is provided by the regional average rankings on the topics included in the ease of doing business ranking (figure 1.3) and the distance to frontier scores (figures 1.4 and 1.5).

Figure 1.2 How economies in East Asia and the Pacific (EAP) rank on the ease of doing business



*Note:* The rankings are benchmarked to June 2015 and based on the average of each economy's distance to frontier (DTF) scores for the 10 topics included in this year's aggregate ranking. The distance to frontier score benchmarks economies with respect to regulatory practice, showing the absolute distance to the best performance in each *Doing Business* indicator. An economy's distance to frontier score is indicated on a scale from 0 to 100, where 0 represents the worst performance and 100 the frontier. For the economies for which the data cover 2 cities, scores are a population-weighted average for the 2 cities.

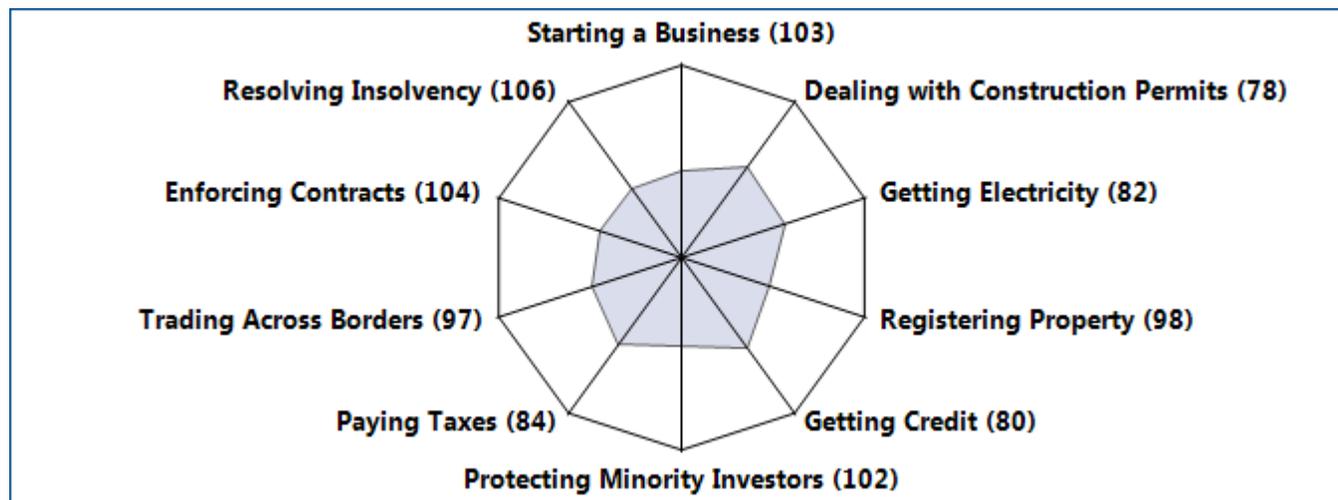
*Source:* *Doing Business* database.

## THE BUSINESS ENVIRONMENT

Figure 1.3 Rankings on *Doing Business* topics - East Asia and the Pacific (EAP)

(Scale: Rank 189 center, Rank 1 outer edge)

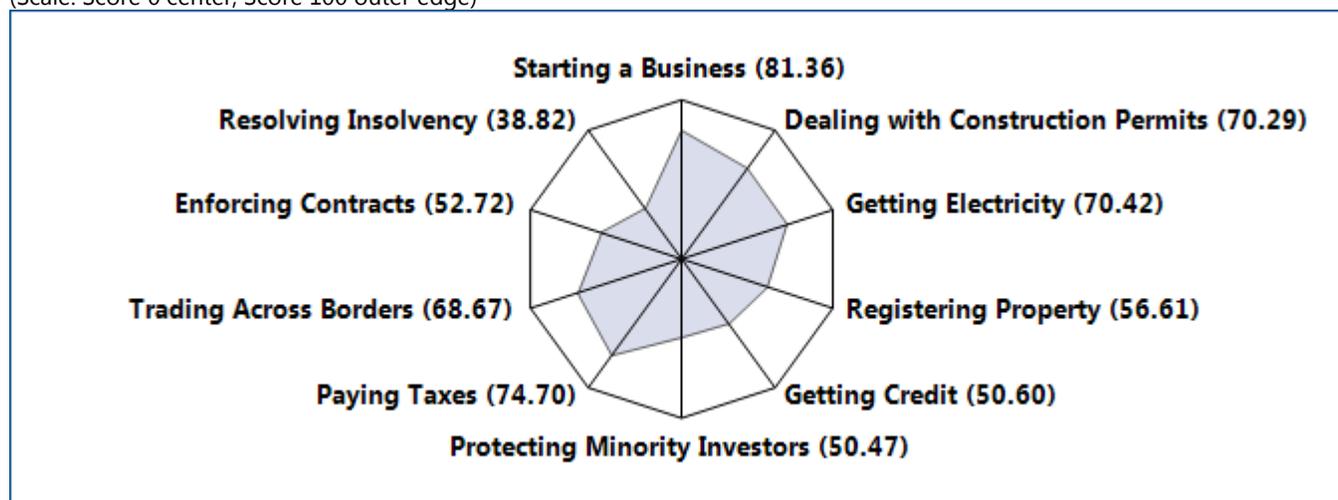
Regional average ranking



Source: *Doing Business* database.

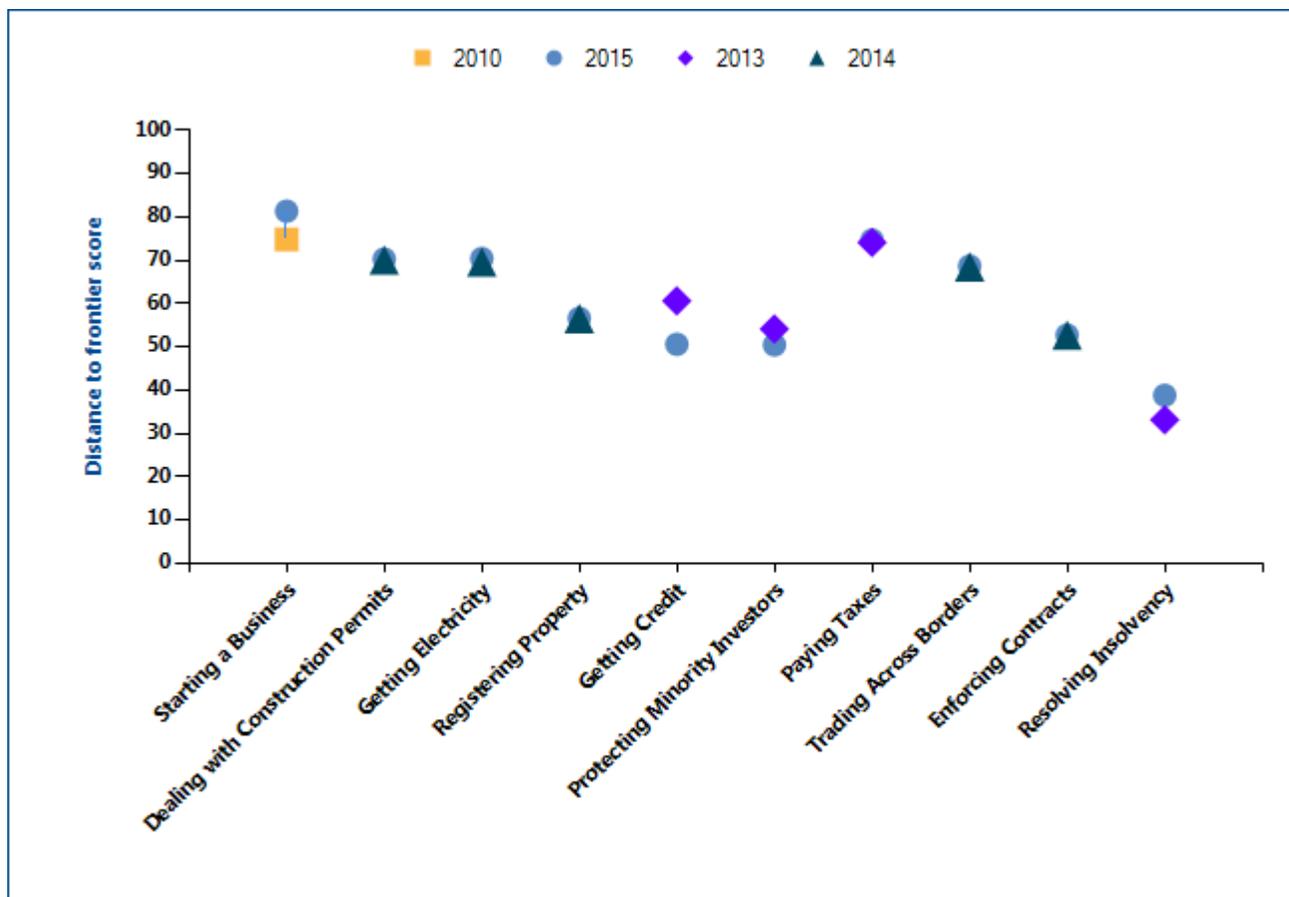
Figure 1.4 Distance to frontier scores on *Doing Business* topics - East Asia and the Pacific (EAP)

(Scale: Score 0 center, Score 100 outer edge)



Note: The rankings are benchmarked to June 2015 and based on the average of each economy's distance to frontier (DTF) scores for the 10 topics included in this year's aggregate ranking. The distance to frontier score benchmarks economies with respect to regulatory practice, showing the absolute distance to the best performance in each *Doing Business* indicator. An economy's distance to frontier score is indicated on a scale from 0 to 100, where 0 represents the worst performance and 100 the frontier. For the economies for which the data cover 2 cities, scores are a population-weighted average for the 2 cities.

Source: *Doing Business* database.

Figure 1.5 How far has East Asia and the Pacific (EAP) come in the areas measured by *Doing Business*?

Source: *Doing Business* database.

Note: The distance to frontier score shows how far on average an economy is from the best performance achieved by any economy on each *Doing Business* indicator. Starting a business is comparable to 2010. Getting credit, protecting minority investors, paying taxes and resolving insolvency had methodology changes in 2014 and thus are only comparable to 2013. Dealing with construction permits, registering property, trading across borders, enforcing contracts and getting electricity had methodology changes in 2015 and thus are only comparable to 2014. The measure is normalized to range between 0 and 100, with 100 representing the best performance (the frontier). See the data notes starting on page 119 of the *Doing Business 2016* report for more details on the distance to frontier score.

## 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*.

The absolute values of the indicators tell another part of the story (table 1.1). Policy makers can learn much by comparing the indicators for their economy with those for the lowest- and highest-scoring economies in the region as well as those for the best performers globally. These comparisons 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.

Table 1.1 Summary of *Doing Business* indicators for East Asia and the Pacific (EAP)

Indicator	Lowest regional performance	Best regional performance	Regional average	Best global performance
<b>Starting a Business (rank)</b>	180 (Cambodia)	4 (Hong Kong SAR, China)	103	1 (New Zealand)
<b>Starting a Business (DTF Score)</b>	58.10 (Cambodia)	98.12 (Hong Kong SAR, China)	81.36	99.96 (New Zealand)
Procedures (number)	16.0 (Philippines)	2.0 (Hong Kong SAR, China)	7.0	1.0 (New Zealand*)
Time (days)	87.0 (Cambodia)	1.5 (Hong Kong SAR, China)	25.9	0.5 (New Zealand)
Cost (% of income per capita)	141.1 (Micronesia, Fed. Sts.)	0.3 (Timor-Leste)	23.0	0.0 (Slovenia)
Paid-in min. capital (% of income per capita)	156.6 (Timor-Leste)	0.0 (19 Economies*)	9.8	0.0 (105 Economies*)
<b>Dealing with Construction Permits (rank)</b>	181 (Cambodia)	1 (Singapore)	78	1 (Singapore)
<b>Dealing with Construction Permits (DTF Score)</b>	38.12 (Cambodia)	92.97 (Singapore)	70.29	92.97 (Singapore)
Procedures (number)	24.0 (Philippines)	7.0 (Marshall Islands)	14.7	7.0 (5 Economies*)
Time (days)	652.0 (Cambodia)	26.0 (Singapore)	134.6	26.0 (Singapore)
Cost (% of warehouse value)	8.0 (Vanuatu)	0.1 (Thailand*)	1.8	0.0 (Qatar)
Building quality control index (0-15)	0.0 (Micronesia, Fed. Sts.)	14.0 (3 Economies*)	8.6	15.0 (New Zealand)

Indicator	Lowest regional performance	Best regional performance	Regional average	Best global performance
<b>Getting Electricity (rank)</b>	173 (Kiribati)	2 (Taiwan, China)	82	1 (Korea, Rep.)
<b>Getting Electricity (DTF Score)</b>	37.96 (Kiribati)	99.43 (Taiwan, China)	70.42	99.88 (Korea, Rep.)
Procedures (number)	8.0 (Mongolia)	3.0 (3 Economies*)	4.7	3.0 (14 Economies*)
Time (days)	179.0 (Cambodia)	22.0 (Taiwan, China)	74.1	18.0 (Korea, Rep.*)
Cost (% of income per capita)	5,169.3 (Kiribati)	1.3 (Hong Kong SAR, China)	818.8	0.0 (Japan)
Reliability of supply and transparency of tariff index (0-8)	0.0 (8 Economies*)	8.0 (3 Economies*)	3.6	8.0 (18 Economies*)
<b>Registering Property (rank)</b>	189 (3 Economies*)	17 (Singapore)	98	1 (New Zealand)
<b>Registering Property (DTF Score)</b>	0.00 (3 Economies*)	85.66 (Singapore)	56.61	94.46 (New Zealand)
Procedures (number)	10.0 (Solomon Islands)	3.0 (Taiwan, China*)	5.3	1.0 (4 Economies*)
Time (days)	513.0 (Kiribati)	3.0 (Thailand)	74.3	1.0 (3 Economies*)
Cost (% of property value)	15.1 (Tonga)	0.0 (Kiribati)	4.5	0.0 (Saudi Arabia)
Quality of the land administration index (0-30)	4.0 (Myanmar)	28.5 (Taiwan, China)	12.9	28.5 (3 Economies*)
<b>Getting Credit (rank)</b>	174 (Myanmar)	15 (Cambodia)	80	1 (New Zealand)
<b>Getting Credit (DTF Score)</b>	10.00 (Myanmar)	80.00 (Cambodia)	50.60	100.00 (New Zealand)
Strength of legal rights index (0-12)	0.0 (Timor-Leste)	11.0 (Cambodia*)	6.2	12.0 (3 Economies*)
Depth of credit information index (0-8)	0.0 (8 Economies*)	8.0 (Taiwan, China)	3.9	8.0 (26 Economies*)
Credit registry coverage (% of adults)	5.1 (Lao PDR)	89.5 (China)	14.0	100.0 (Portugal)
Credit bureau coverage (% of adults)	3.5 (Papua New Guinea)	96.0 (Hong Kong SAR, China)	21.9	100.0 (22 Economies*)
<b>Protecting Minority Investors (rank)</b>	185 (Micronesia, Fed. Sts.)	1 (Singapore*)	102	1 (3 Economies*)
<b>Protecting Minority Investors (DTF Score)</b>	25.00 (Micronesia, Fed. Sts.)	83.33 (Singapore*)	50.47	83.33 (3 Economies*)

Indicator	Lowest regional performance	Best regional performance	Regional average	Best global performance
Strength of minority investor protection index (0-10)	2.5 (Micronesia, Fed. Sts.)	8.3 (Singapore*)	5.0	8.3 (3 Economies*)
Extent of conflict of interest regulation index (0-10)	2.0 (Myanmar)	9.3 (Singapore)	5.5	9.3 (Singapore*)
Extent of shareholder governance index (0-10)	2.3 (Micronesia, Fed. Sts.)	7.7 (Hong Kong SAR, China*)	4.6	8.0 (4 Economies*)
<b>Paying Taxes (rank)</b>	168 (Vietnam)	4 (Hong Kong SAR, China)	84	1 (United Arab Emirates*)
<b>Paying Taxes (DTF Score)</b>	45.41 (Vietnam)	98.71 (Hong Kong SAR, China)	74.70	99.44 (United Arab Emirates*)
Payments (number per year)	54.0 (Indonesia)	3.0 (Hong Kong SAR, China)	25.3	3.0 (Hong Kong SAR, China*)
Time (hours per year)	770.0 (Vietnam)	74.0 (Hong Kong SAR, China)	201.4	55.0 (Luxembourg)
Total tax rate (% of profit)	75.4 (Palau)	8.5 (Vanuatu)	33.5	25.9 (Ireland)
<b>Trading Across Borders (rank)</b>	163 (Papua New Guinea)	41 (Singapore)	97	1 (16 Economies*)
<b>Trading Across Borders (DTF Score)</b>	42.28 (Papua New Guinea)	89.35 (Singapore)	68.67	100.00 (16 Economies*)
Time to export: Border compliance (hours)	144 (Myanmar)	3 (Lao PDR)	51	0 (15 Economies*)
Cost to export: Border compliance (USD)	1,400 (Samoa)	41 (Mongolia)	396	0 (18 Economies*)
Time to export: Documentary compliance (hours)	216 (Lao PDR)	1 (Hong Kong SAR, China)	75	0 (Jordan)
Cost to export: Documentary compliance (USD)	1,050 (Samoa)	37 (Singapore)	167	0 (20 Economies*)
Time to import: Border compliance (hours)	126 (Vanuatu)	4 (Cambodia)	59	0 (19 Economies*)
Cost to import: Border compliance (USD)	900 (Samoa)	60 (Mongolia)	421	0 (28 Economies*)
Time to import: Documentary	216 (Lao PDR)	1 (Singapore*)	70	1 (21 Economies*)

Indicator	Lowest regional performance	Best regional performance	Regional average	Best global performance
compliance (hours)				
Cost to import: Documentary compliance (USD)	800 (Samoa)	37 (Singapore)	148	0 (30 Economies*)
<b>Enforcing Contracts (rank)</b>	189 (Timor-Leste)	1 (Singapore)	104	1 (Singapore)
<b>Enforcing Contracts (DTF Score)</b>	6.13 (Timor-Leste)	84.91 (Singapore)	52.72	84.91 (Singapore)
Time (days)	1,285.0 (Timor-Leste)	150.0 (Singapore)	553.8	150.0 (Singapore)
Cost (% of claim)	163.2 (Timor-Leste)	16.2 (China)	48.8	9.0 (Iceland)
Quality of judicial processes index (0-18)	2.5 (Timor-Leste)	15.5 (Singapore)	7.6	15.5 (3 Economies*)
<b>Resolving Insolvency (rank)</b>	189 (3 Economies*)	21 (Taiwan, China)	106	1 (Finland)
<b>Resolving Insolvency (DTF Score)</b>	0.00 (3 Economies*)	78.41 (Taiwan, China)	38.82	93.81 (Finland)
Recovery rate (cents on the dollar)	3.2 (Micronesia, Fed. Sts.)	89.7 (Singapore)	32.5	92.9 (Japan)
Time (years)	6.0 (Cambodia)	0.8 (Singapore*)	2.6	0.4 (Ireland)
Cost (% of estate)	38.0 (5 Economies*)	3.0 (Singapore)	21.8	1.0 (Norway)
Strength of insolvency framework index (0-16)	0.0 (Marshall Islands*)	14.5 (Philippines)	6.8	15.0 (4 Economies*)

\* 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>).

*Note:* The global best performer on time for paying taxes is defined as the lowest time recorded among all economies in the DB2016 sample that levy the 3 major taxes: profit tax, labor taxes and mandatory contributions, and VAT or sales tax.

*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 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 of economies on the ease of starting a business is determined by sorting their distance to frontier scores for starting a business. These scores are the simple average of the distance to frontier scores for each of the component indicators.

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 the entrepreneur will pay no bribes. And it assumes that the business:

- Is a limited liability company, located in the largest business city<sup>1</sup>, is 100% domestically owned with between 10 and 50 employees.

### 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<sup>1</sup>
- 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 (2 procedures cannot start on the same day). Procedures that can be fully completed online are recorded as ½ 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)
- Conducts general commercial or industrial activities.
- 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.

<sup>1</sup> For the 11 economies with a population of more than 100 million, data for a second city have been added.

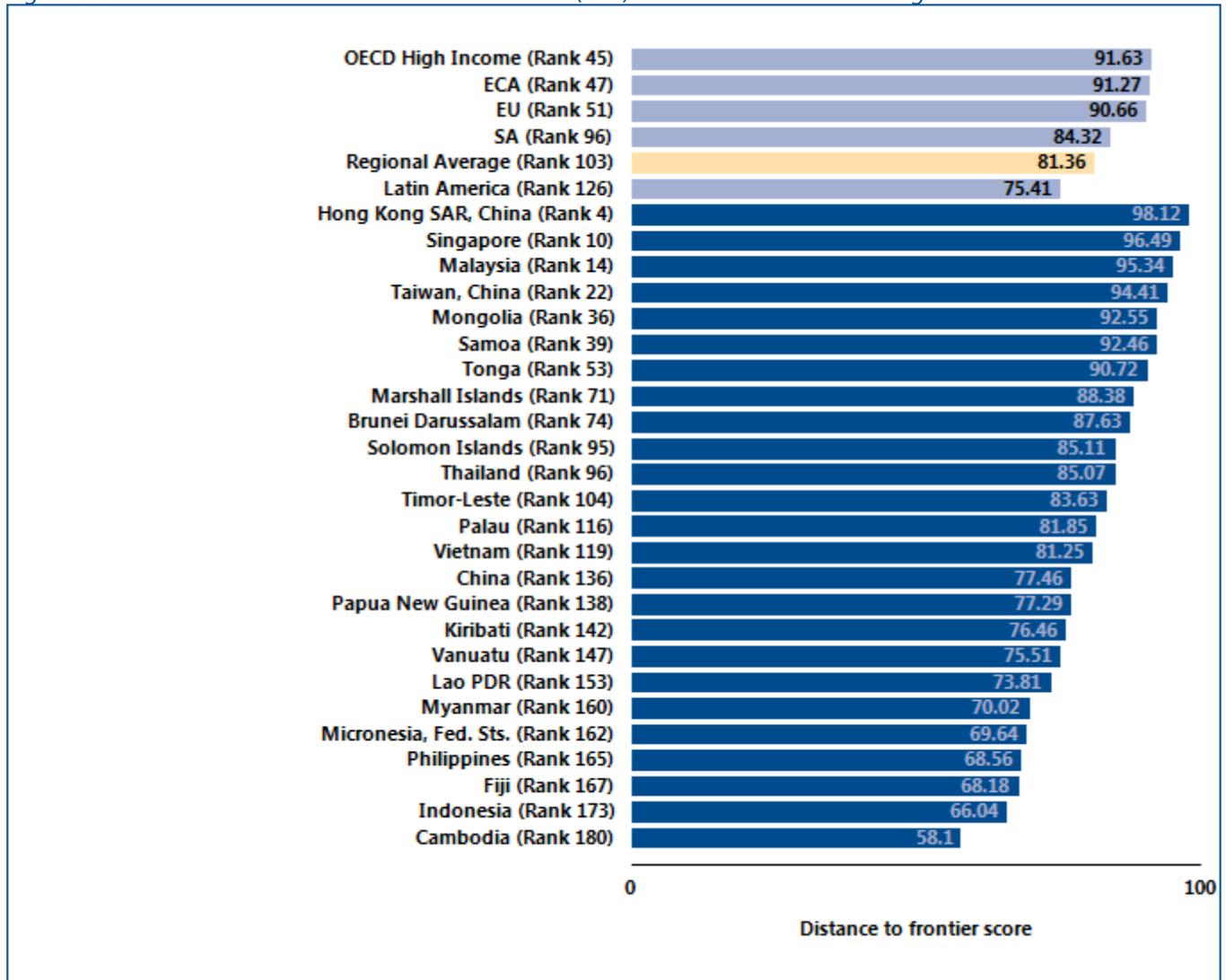
## STARTING A BUSINESS

### Where do the region's economies stand today?

How easy is it for entrepreneurs in economies in East Asia and the Pacific (EAP) to start a business? The global rankings of these economies on the ease of starting a

business suggest an answer (figure 2.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 2.1 How economies in East Asia and the Pacific (EAP) rank on the ease of starting a business



Source: Doing Business database.

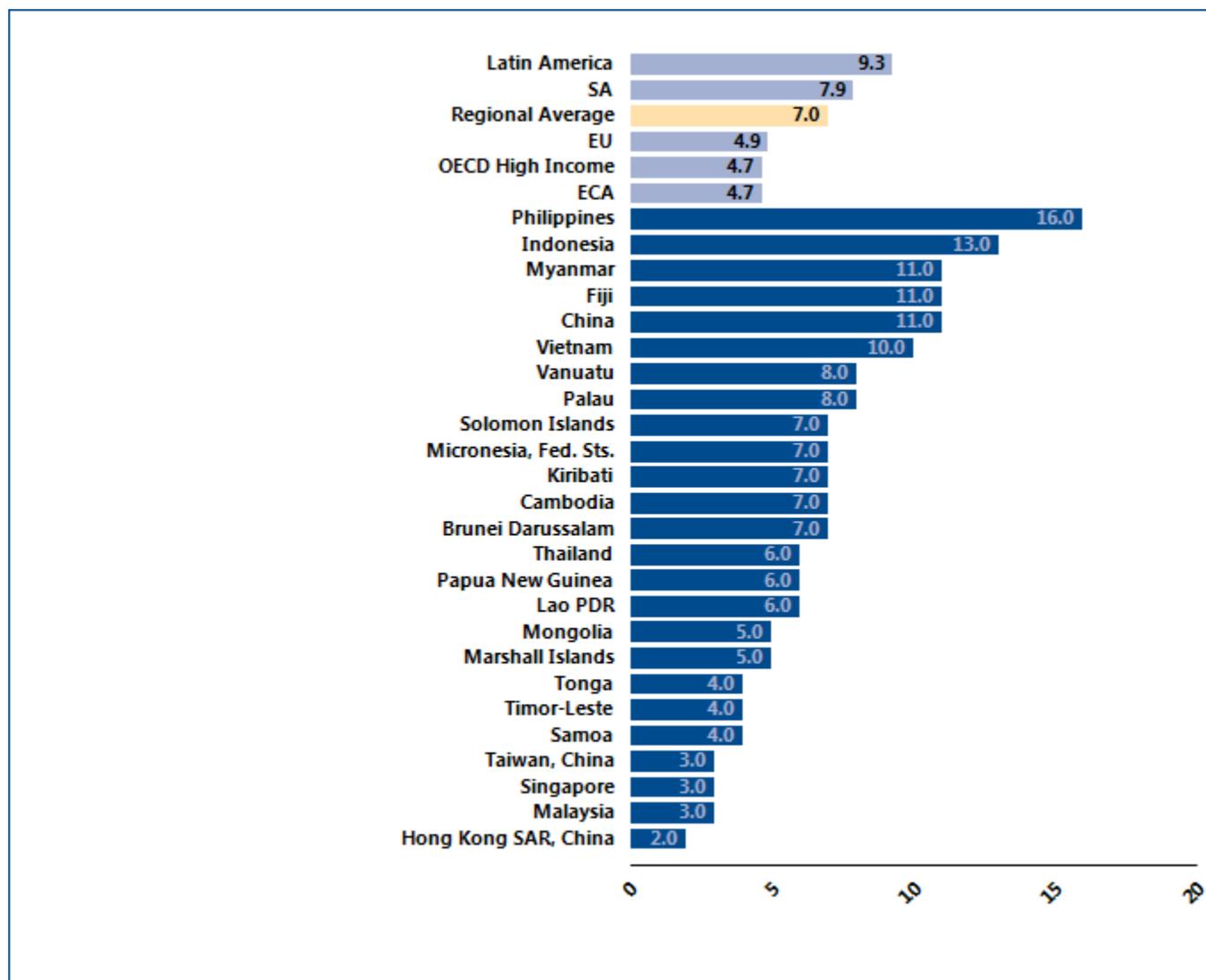
## STARTING A BUSINESS

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show what it takes to start a business in each economy in the region: the number of procedures, the time, the cost

and the paid-in minimum capital requirement (figure 2.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

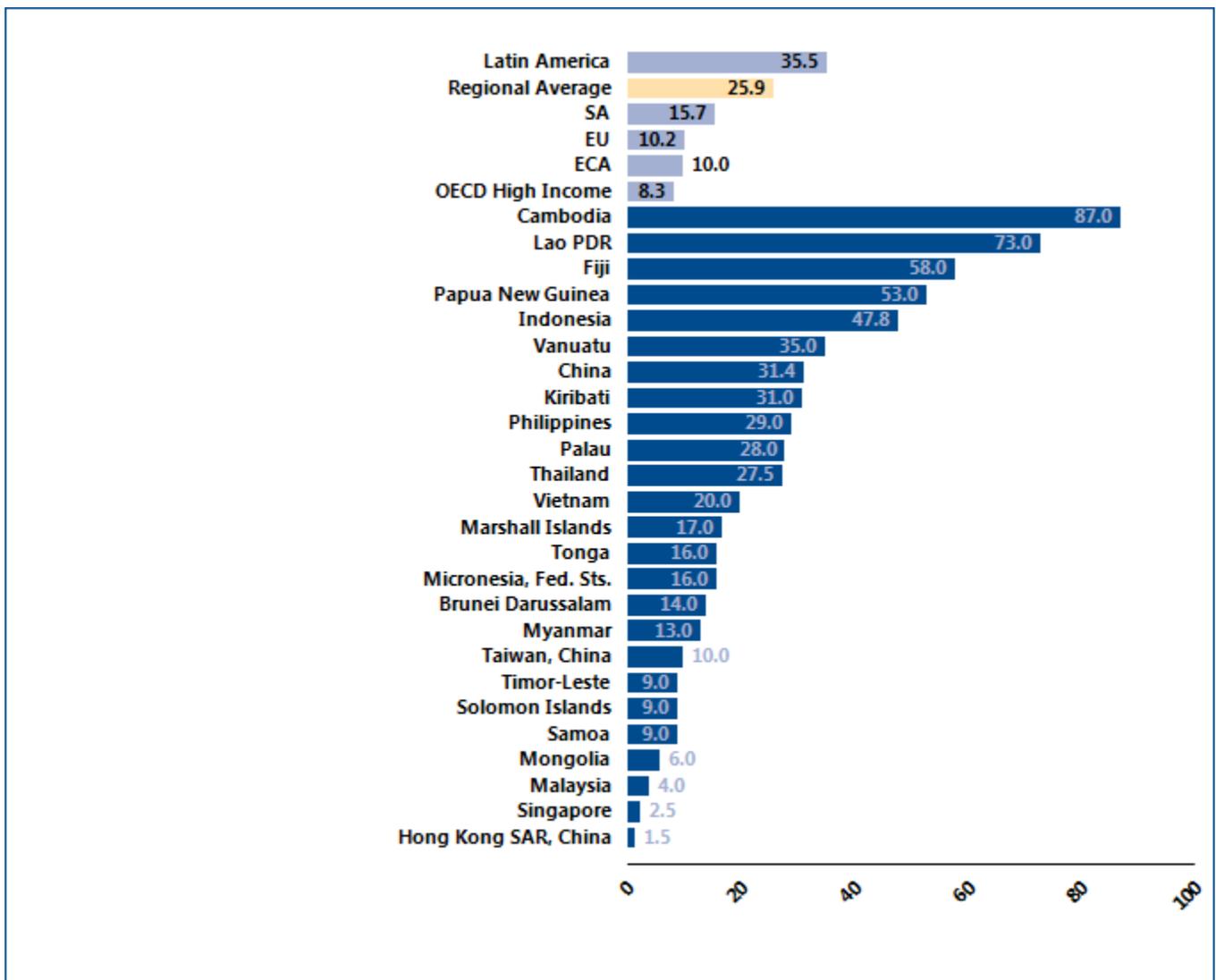
Figure 2.2 What it takes to start a business in economies in East Asia and the Pacific (EAP)

### Procedures (number)



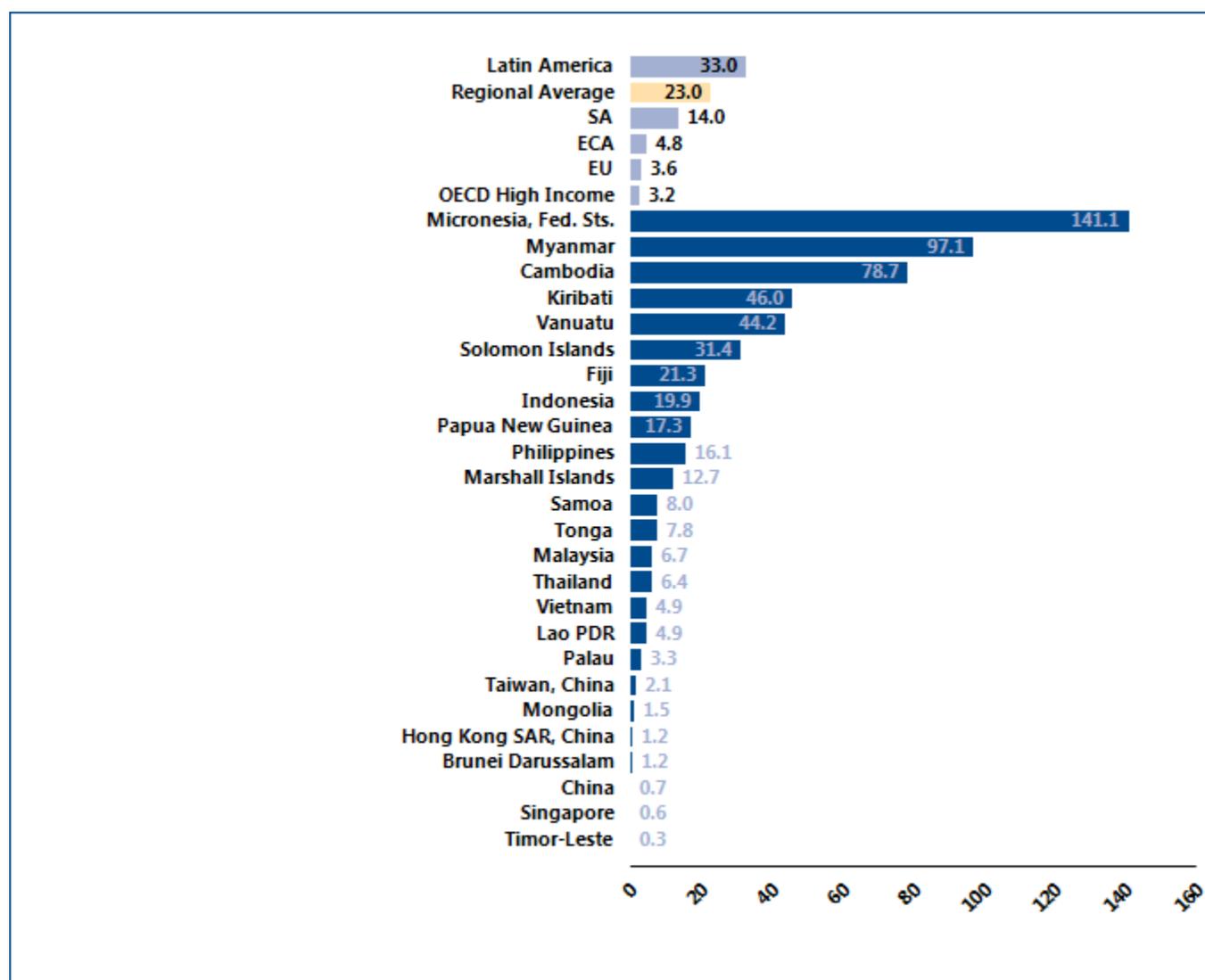
STARTING A BUSINESS

Time (days)



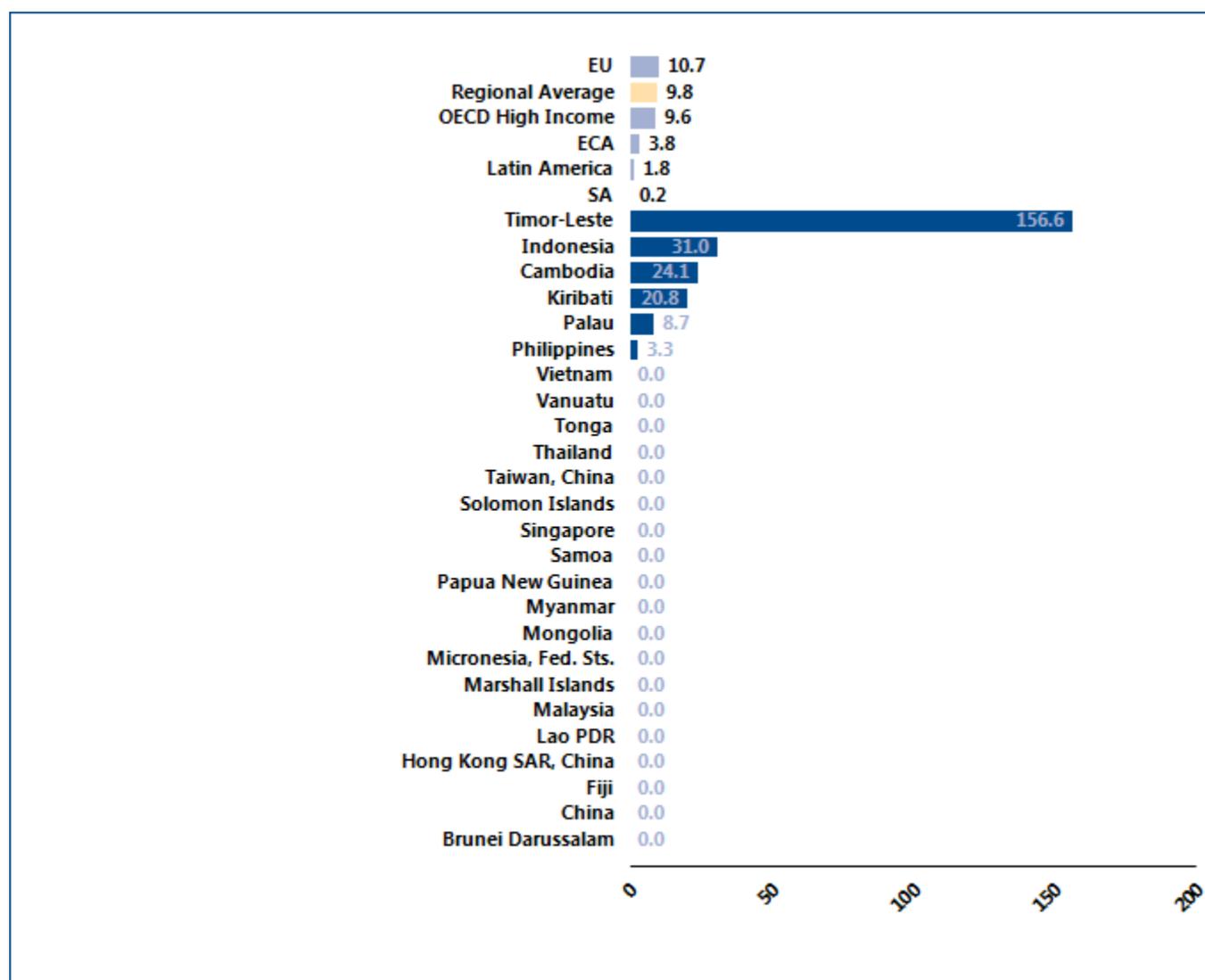
## STARTING A BUSINESS

## Cost (% of income per capita)



## STARTING A BUSINESS

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



Source: Doing Business database.

## STARTING A BUSINESS

### What are the changes over time?

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

often as 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 East Asia and the Pacific (EAP) (table 2.1)?

Table 2.1 How have economies in East Asia and the Pacific (EAP) made starting a business easier—or not?  
By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Brunei Darussalam</i>	Brunei Darussalam made starting a business easier by improving online procedures and simplifying registration and post registration requirements.
DB2016	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made starting a business easier by eliminating the requirement for a company seal.
DB2016	<i>Indonesia</i>	Indonesia made starting a business in Jakarta easier by reducing the time needed to register with the Ministry of Manpower.
DB2016	<i>Cambodia</i>	Cambodia made starting a business easier by simplifying company name checks, streamlining tax registration and eliminating the requirement to publish information on the new company's incorporation in the official gazette.
DB2016	<i>Myanmar</i>	Myanmar made starting a business easier by eliminating the minimum capital requirement for local companies and streamlining incorporation procedures.
DB2016	<i>Mongolia</i>	Mongolia made starting a business easier by reducing the number of days required to register a new company.
DB2016	<i>Philippines</i>	The Philippines made starting a business easier by streamlining communications between the Securities and Exchange Commission and the Social Security System and thereby expediting the process of issuing an employer registration number.
DB2016	<i>Vietnam</i>	Vietnam made starting a business easier by reducing the time required to get the company seal engraved and registered.
DB2015	<i>China</i>	China made starting a business easier by eliminating both the minimum capital requirement and the requirement to obtain a capital verification report from an auditing firm. This reform applies to both Beijing and Shanghai.

DB year	Economy	Reform
DB2015	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made starting a business more difficult by increasing the registration fee.
DB2015	<i>Indonesia</i>	Indonesia made starting a business easier by allowing the Ministry of Law and Human Rights to electronically issue the approval letter for the deed of establishment. This reform applies to both Jakarta and Surabaya.
DB2015	<i>Timor-Leste</i>	Timor-Leste made starting a business easier by creating a one-stop shop.
DB2014	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made starting a business less costly by abolishing the capital duty levied on local companies.
DB2014	<i>Cambodia</i>	Cambodia made starting a business more difficult by introducing a requirement for a company name check at the Department of Intellectual Property and by increasing the costs both for getting registration documents approved and stamped by the Phnom Penh Tax Department and for completing incorporation with the commercial registrar.
DB2014	<i>Mongolia</i>	Mongolia made starting a business easier by eliminating the requirement to get company statutes and charters notarized as well as the requirement to register a new company with the local tax office.
DB2014	<i>Malaysia</i>	Malaysia made starting a business less costly by reducing the company registration fees.
DB2013	<i>China</i>	China made starting a business less costly by exempting micro and small companies from paying several administrative fees from January 2012 to December 2014.
DB2013	<i>Fiji</i>	Fiji made starting a business more difficult by requiring new companies applying for a business license to obtain a certificate from the national fire authority and a letter of compliance from the Ministry of Labor.
DB2013	<i>Lao PDR</i>	Lao PDR made starting a business easier by allowing entrepreneurs to apply for tax registration at the time of incorporation.
DB2013	<i>Mongolia</i>	Mongolia made starting a business easier by eliminating the minimum capital requirement for limited liability companies.
DB2013	<i>Thailand</i>	Thailand made starting a business easier by allowing the registrar at the Department of Business Development to receive the company's work regulations.
DB2013	<i>Vietnam</i>	Vietnam made starting a business easier by allowing companies to use self-printed value added tax invoices.
DB2012	<i>Timor-Leste</i>	Timor-Leste made starting a business faster by improving the registration process.
DB2012	<i>Malaysia</i>	Malaysia made starting a business easier by merging

DB year	Economy	Reform
		company, tax, social security and employment fund registrations at the one-stop shop and providing same-day registration.
<b>DB2012</b>	<i>Thailand</i>	Thailand made starting a business easier by introducing a one-stop shop.
<b>DB2012</b>	<i>Tonga</i>	Tonga made starting a business easier by implementing an electronic system at the registry, which reduced the time required for verification of the uniqueness of the company name and for registration of the company. The costs for the name search, company registration and business license increased, however.
<b>DB2012</b>	<i>Vanuatu</i>	Vanuatu made starting a business easier by reducing the time required for company registration at the Vanuatu Financial Services Commission and issuing provisional licenses at the Department of Customs.
<b>DB2012</b>	<i>Indonesia</i>	Indonesia made starting a business easier by introducing a simplified application process allowing an applicant to simultaneously obtain both a general trading license and a business registration certificate.
<b>DB2012</b>	<i>Solomon Islands</i>	The Solomon Islands made starting a business easier by implementing an online registration process.
<b>DB2012</b>	<i>Taiwan, China</i>	Taiwan (China) made starting a business easier by implementing an online one-stop shop for business registration.
<b>DB2012</b>	<i>Fiji</i>	Fiji made starting a business more difficult by adding a requirement to obtain a tax identification number when registering a new company.
<b>DB2012</b>	<i>Hong Kong SAR, China</i>	Hong Kong SAR (China) made starting a business easier by introducing online electronic services for company and business registration.
<b>DB2011</b>	<i>Philippines</i>	The Philippines eased business startup by setting up a one-stop shop at the municipal level.
<b>DB2011</b>	<i>Taiwan, China</i>	Taiwan (China) eased business start-up by reducing the time required to check company names, register retirement plans and apply for health, pension and labor insurance.
<b>DB2011</b>	<i>Indonesia</i>	Indonesia eased business start-up by reducing the cost for company name clearance and reservation and the time required to reserve the name and approve the deed of incorporation.
<b>DB2011</b>	<i>Brunei Darussalam</i>	Brunei Darussalam made starting a business easier by improving efficiency at the company registrar and implementing an electronic system for name searches.
<b>DB2011</b>	<i>Malaysia</i>	Malaysia eased business start-up by introducing more online services.

DB year	Economy	Reform
DB2011	<i>Vietnam</i>	Vietnam eased company start-up by creating a one-stop shop that combines the processes for obtaining a business license and tax license and by eliminating the need for a seal for company licensing.
DB2010	<i>Thailand</i>	Thailand made starting a business easier by merging 2 registration procedures in a single application form.
DB2010	<i>Malaysia</i>	Malaysia made starting a business easier through a new one-stop shop service that helped in streamlining the registration process.
DB2010	<i>Samoa</i>	Samoa made starting a business easier by eliminating the minimum capital requirement and simplifying some procedures.
DB2010	<i>Singapore</i>	Singapore made starting a business easier by combining tax registration with business registration on a single online form.
DB2010	<i>Taiwan, China</i>	Taiwan, China, made starting a business easier by abolishing the minimum capital requirement and speeding up various procedures.
DB2010	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made starting a business easier by simplifying registration formalities and merging certain procedures.
DB2010	<i>Indonesia</i>	Indonesia made starting a business easier by introducing online service, eliminating certain licenses, increasing efficiency at the registry and reducing several fees.

*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.

## 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 all procedures required for a business in the construction industry to build a warehouse along with the time and cost to complete each procedure. In addition, this year Doing Business introduces a new measure, the building quality control index, evaluating the quality of building regulations, the strength of quality control and safety mechanisms, liability and insurance regimes, and professional certification requirements.

The ranking of economies on the ease of dealing with construction permits is determined by sorting their distance to frontier scores for dealing with construction permits. These scores are the simple average of the distance to frontier scores for each of the component indicators.

To make the data comparable across economies, several assumptions about the construction company, the warehouse project and the utility connections are used.

### Assumptions about the construction company

The construction company (BuildCo):

- Is a limited liability company (or its legal equivalent).
- Operates in the economy's largest business city. For 11 economies the data are also collected for the second largest business city.
- Is 100% domestically and privately owned with five owners, none of whom is a legal entity.
- Is fully licensed and insured to carry out construction projects, such as building warehouses.

## 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

Submitting all required notifications and receiving all necessary inspections

Obtaining utility connections for water and sewerage

Registering and selling the warehouse after its completion

### Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day. Procedures that can be fully completed online are recorded as ½ day

Procedure considered completed once final document is received

No prior contact with officials

### Cost required to complete each procedure (% of warehouse value)

Official costs only, no bribes

### Building quality control index (0-15)

Sum of the scores of six component indices:

Quality of building regulations (0-2)

Quality control before construction (0-1)

Quality control during construction (0-3)

Quality control after construction (0-3)

Liability and insurance regimes (0-2)

Professional certifications (0-4)

The construction company (BuildCo) (*continued*):

- Has 60 builders and other employees, all of them nationals with the technical expertise and professional experience necessary to obtain construction permits and approvals.
- Has at least one employee who is a licensed architect or engineer and registered with the local association of architects or engineers. BuildCo is not assumed to have any other employees who are technical or licensed experts, such as geological or topographical experts.
- Has paid all taxes and taken out all necessary insurance applicable to its general business activity (for example, accidental insurance for construction workers and third-person liability).
- Owns the land on which the warehouse will be built and will sell the warehouse upon its completion.
- Is valued at 50 times income per capita.
- Will be a new construction (there was no previous construction on the land), with no trees, natural water sources, natural reserves or historical monuments of any kind on the plot.
- Will have complete architectural and technical plans prepared by a licensed architect. If preparation of the plans requires such steps as obtaining further documentation or getting prior approvals from external agencies, these are counted as procedures.
- Will include all technical equipment required to be fully operational.
- Will take 30 weeks to construct (excluding all delays due to administrative and regulatory requirements).

#### **Assumptions about the utility connections**

The water and sewerage connections:

- Will be 150 meters (492 feet) from the existing water source and sewer tap. If there is no water delivery infrastructure in the economy, a borehole will be dug. If there is no sewerage infrastructure, a septic tank in the smallest size available will be installed or built.
  - Will not require water for fire protection reasons; a fire extinguishing system (dry system) will be used instead. If a wet fire protection system is required by law, it is assumed that the water demand specified below also covers the water needed for fire protection.
  - Will have an average water use of 662 liters (175 gallons) a day and an average wastewater flow of 568 liters (150 gallons) a day. Will have a peak water use of 1,325 liters (350 gallons) a day and a peak wastewater flow of 1,136 liters (300 gallons) a day.
  - Will have a constant level of water demand and wastewater flow throughout the year.
  - Will be 1 inch in diameter for the water connection and 4 inches in diameter for the sewerage connection.
- The warehouse:
  - Will be used for general storage activities, such as storage of books or stationery. The warehouse will not be used for any goods requiring special conditions, such as food, chemicals or pharmaceuticals.
  - Will have two stories, both above ground, with a total constructed area of approximately 1,300.6 square meters (14,000 square feet). Each floor will be 3 meters (9 feet, 10 inches) high.
  - Will have road access and be located in the periurban area of the economy's largest business city (that is, on the fringes of the city but still within its official limits). For 11 economies the data are also collected for the second largest business city.
  - Will not be located in a special economic or industrial zone. Will be located on a land plot of approximately 929 square meters (10,000 square feet) that is 100% owned by BuildCo and is accurately registered in the cadastre and land registry.

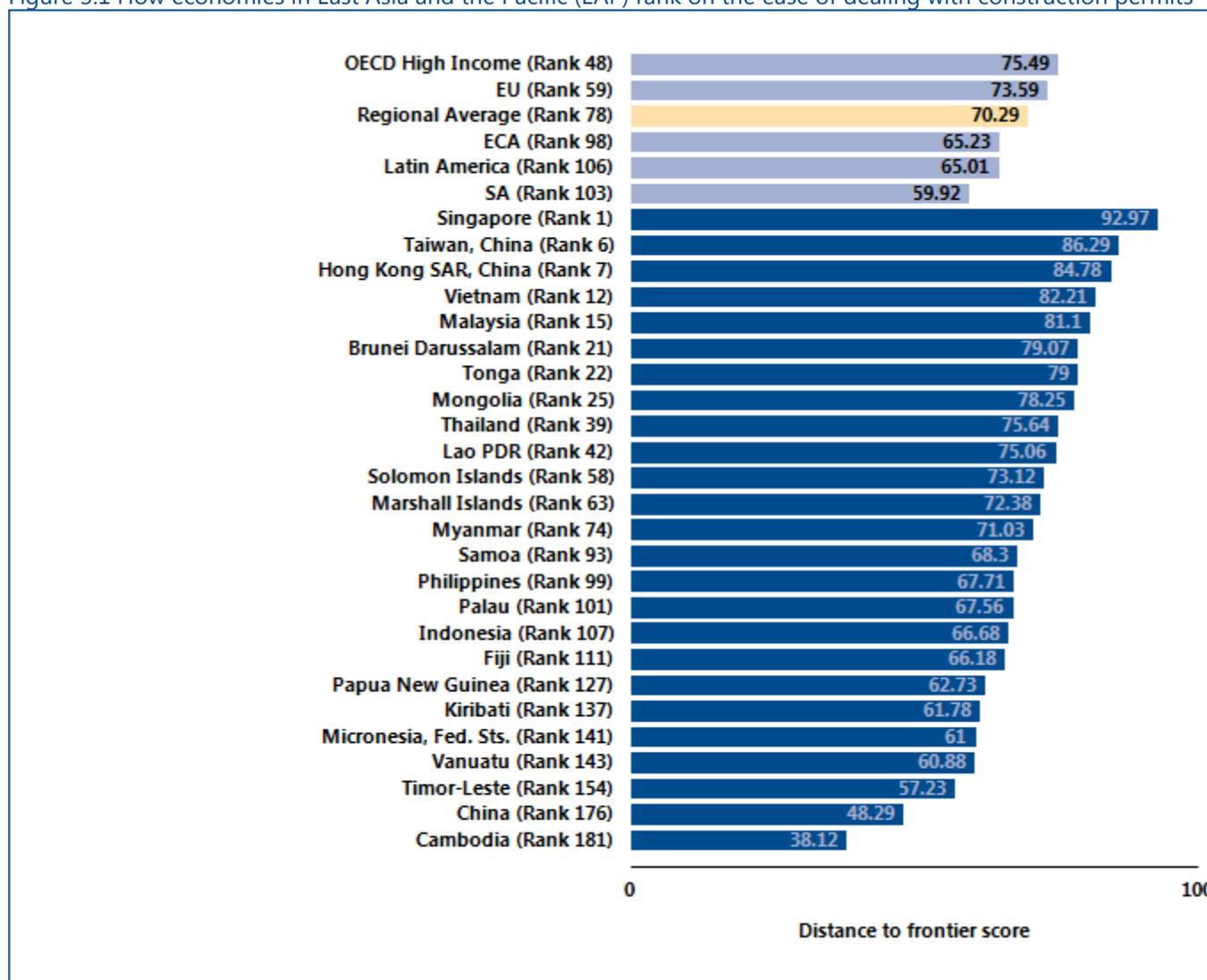
## DEALING WITH CONSTRUCTION PERMITS

### Where do the region's economies stand today?

How easy it is for entrepreneurs in economies in East Asia and the Pacific (EAP) to legally build a warehouse? The global rankings of these economies on the ease of

dealing with construction permits suggest an answer (figure 3.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 3.1 How economies in East Asia and the Pacific (EAP) rank on the ease of dealing with construction permits



Source: Doing Business database.

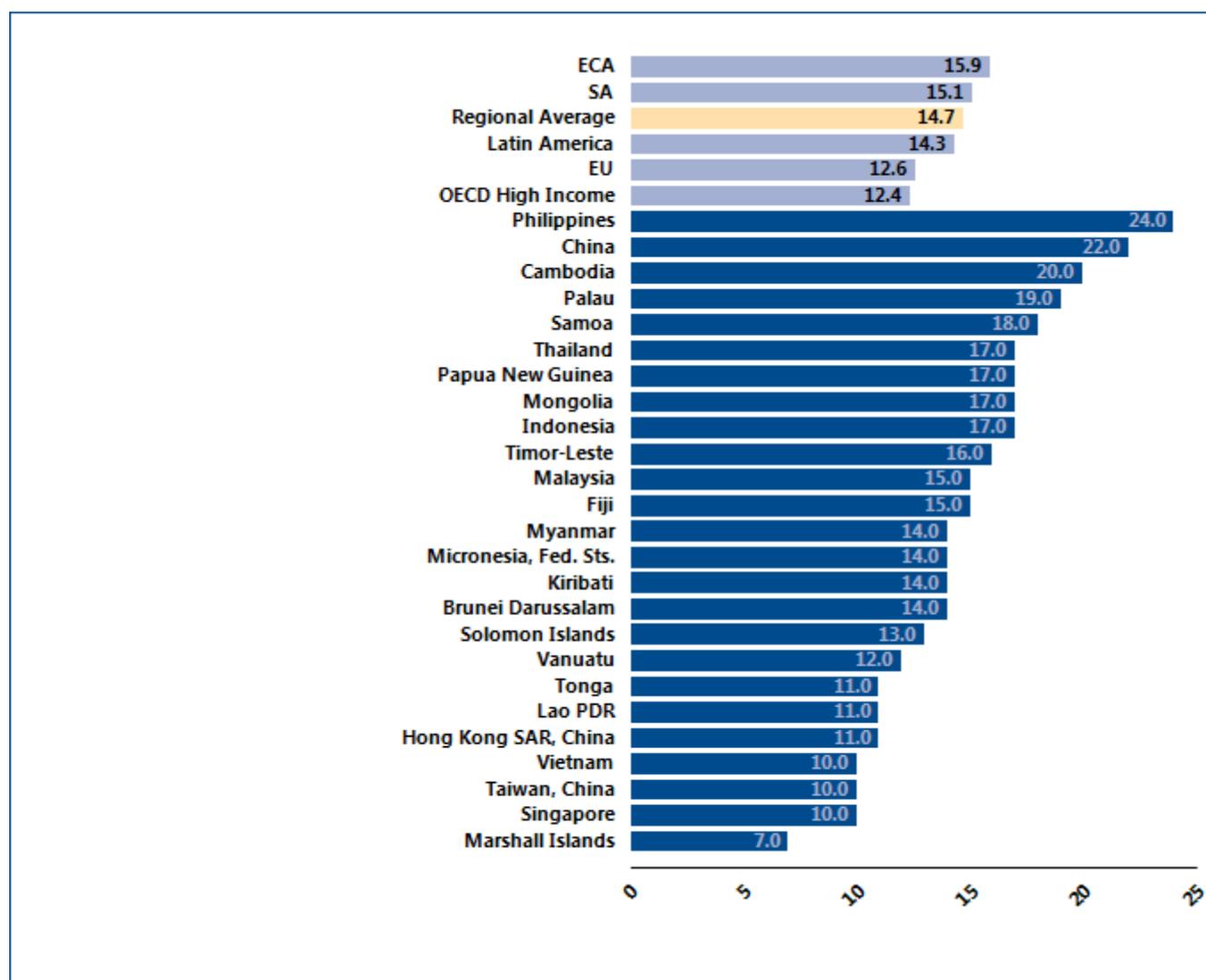
## DEALING WITH CONSTRUCTION PERMITS

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show what it takes to comply with formalities to build a warehouse in each economy in the region: the number of procedures,

the time and the cost (figure 3.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

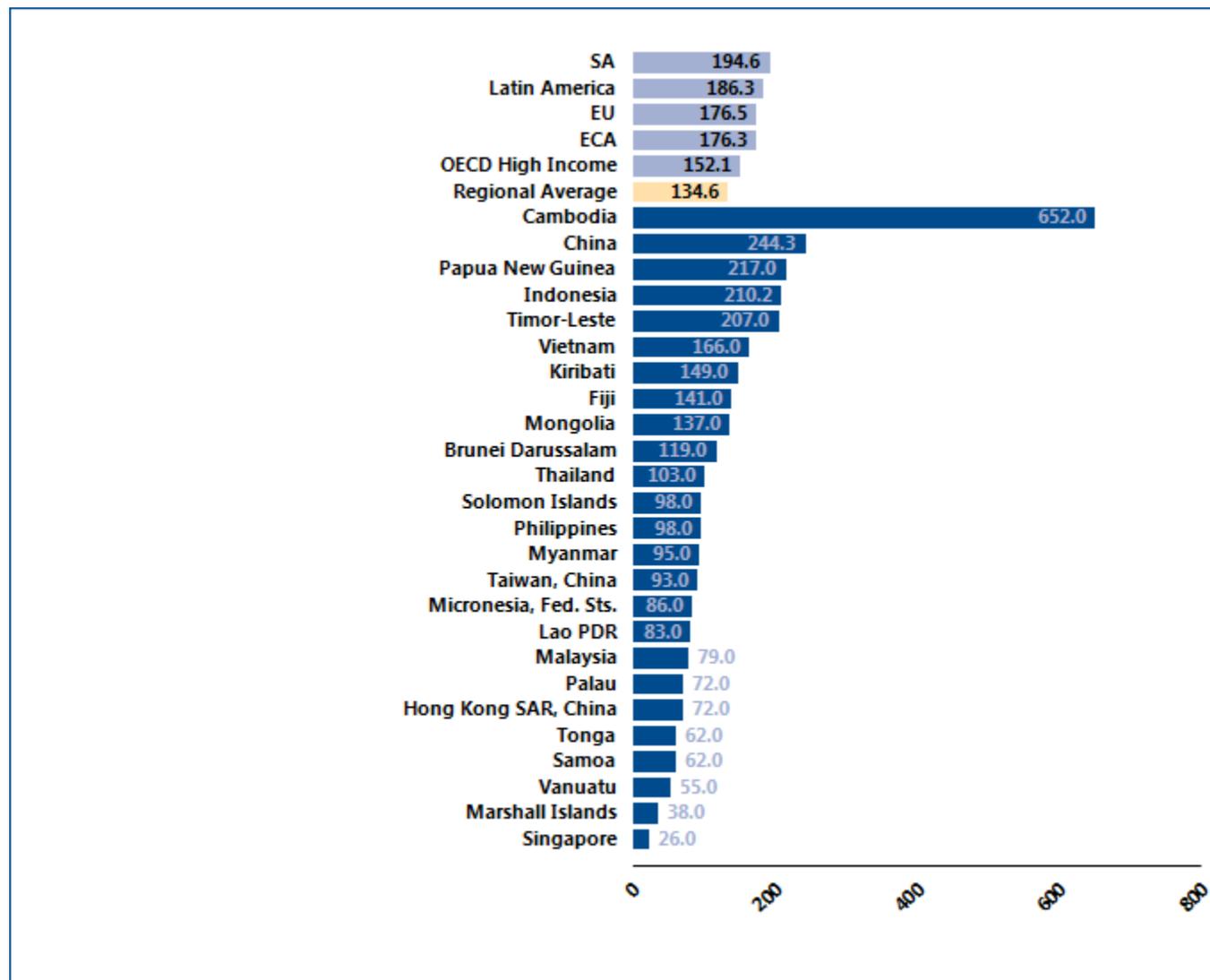
Figure 3.2 What it takes to comply with formalities to build a warehouse in economies in East Asia and the Pacific (EAP)

### Procedures (number)



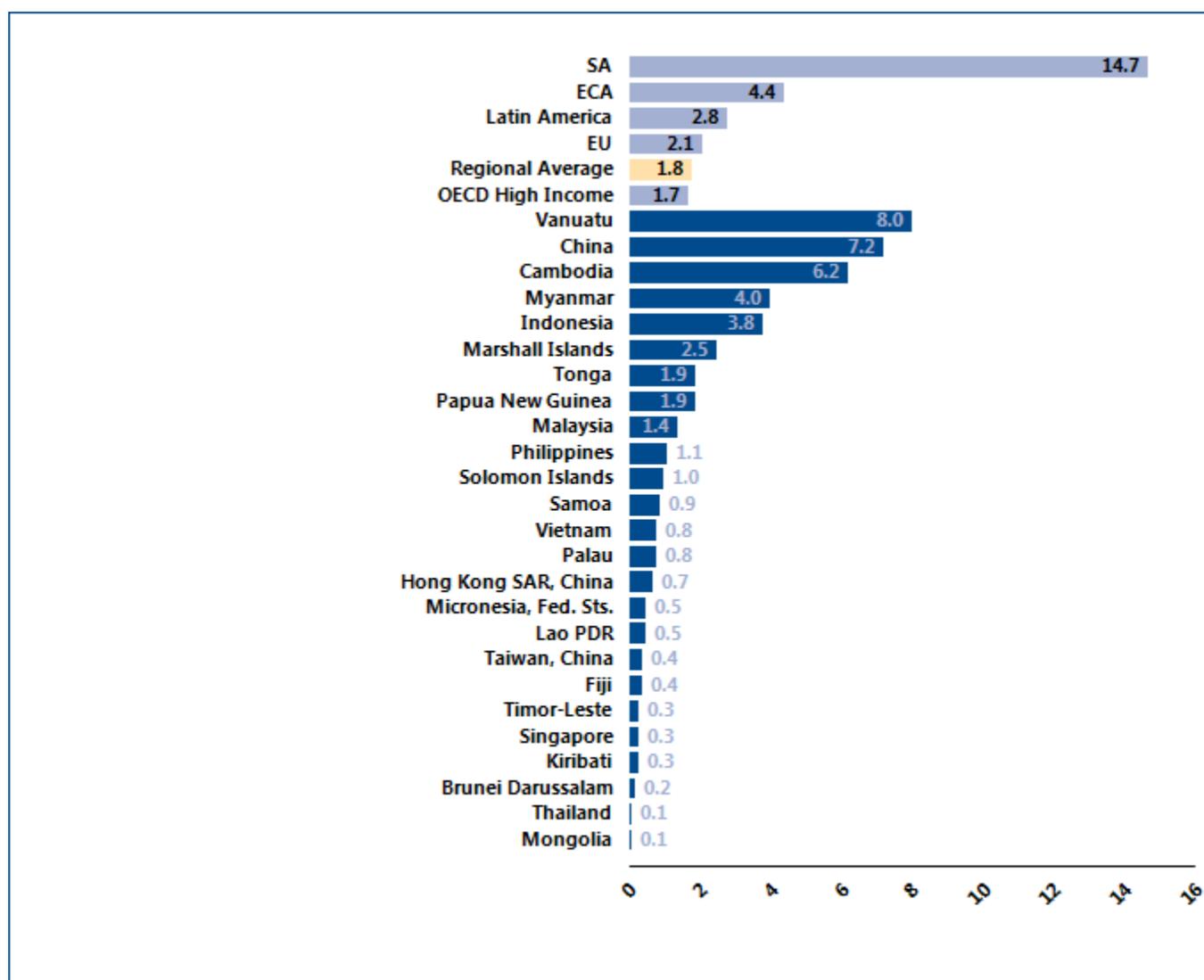
## DEALING WITH CONSTRUCTION PERMITS

Time (days)



## DEALING WITH CONSTRUCTION PERMITS

## Cost (% of warehouse value)

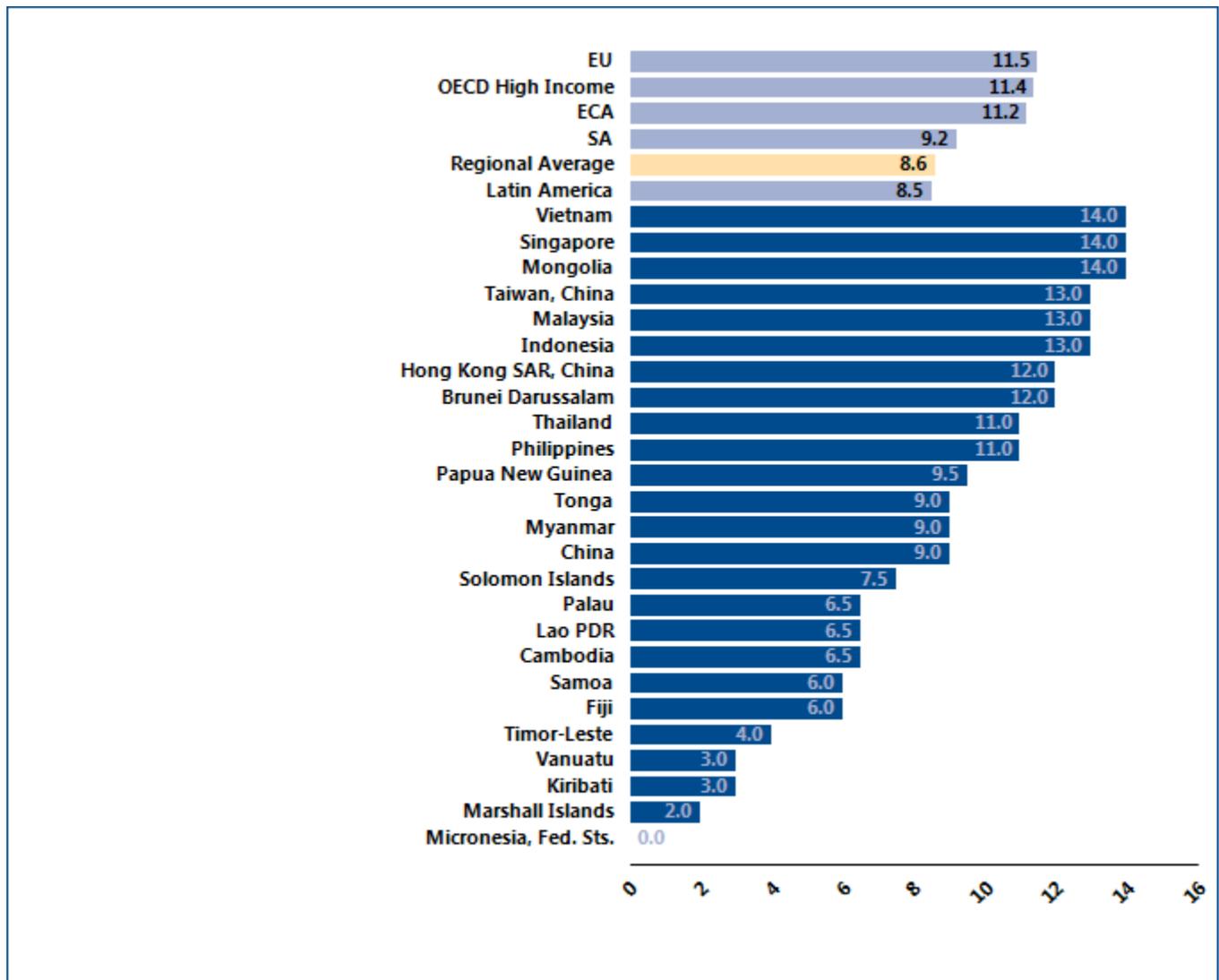


\* Indicates a “no practice” mark. If an economy has no laws or regulations covering a specific area—for example, insolvency—it receives a “no practice” mark. Similarly, an economy receives a “no practice” or “not possible” mark if regulation exists but is never used in practice or if a competing regulation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

Source: *Doing Business* database.

## DEALING WITH CONSTRUCTION PERMITS

## Building Quality Control Index (0-15)



\* Indicates a “no practice” mark. 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.

Note: The index ranges from 0 to 15, with higher values indicating better quality control and safety mechanisms in the construction permitting system. The indicator is based on the same case study assumptions as the measures of efficiency.

Source: *Doing Business* database.

## DEALING WITH CONSTRUCTION PERMITS

### What are the changes over time?

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 East Asia and the Pacific (EAP) (table 3.1)?

Table 3.1 How have economies in East Asia and the Pacific (EAP) made dealing with construction permits easier—or not?

By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2015	<i>Brunei Darussalam</i>	Brunei Darussalam made dealing with construction permits easier by consolidating final inspections.
DB2015	<i>Thailand</i>	Thailand made dealing with construction permits less time-consuming by introducing a fast-track approval process for building permits for smaller buildings.
DB2015	<i>Samoa</i>	Samoa made dealing with construction permits more costly by increasing the building permit fees.
DB2014	<i>Mongolia</i>	Mongolia made dealing with construction permits easier by eliminating the requirement for a technical review of the building plans by the state for low- and medium-risk construction projects.
DB2014	<i>Malaysia</i>	Malaysia made dealing with construction permits easier by establishing a one-stop shop.
DB2014	<i>Philippines</i>	The Philippines made dealing with construction permits easier by eliminating the requirement to obtain a health certificate.
DB2013	<i>Brunei Darussalam</i>	Brunei Darussalam made dealing with construction permits easier by creating a one-stop shop for preconstruction approvals.
DB2013	<i>China</i>	China simplified the process of obtaining a construction permit by streamlining and centralizing preconstruction approvals.
DB2013	<i>Taiwan, China</i>	Taiwan, China, made dealing with construction permits easier by introducing a risk-based and self-regulatory inspection

DB year	Economy	Reform
		system and improving operational features of the one-stop shop for building permits.
<b>DB2013</b>	<i>Fiji</i>	Fiji made obtaining a construction permit more expensive by implementing a fee for the fire department clearance.
<b>DB2013</b>	<i>Malaysia</i>	Malaysia made dealing with construction permits faster by improving the one-stop center for new buildings and by reducing the time to connect to telephone service.
<b>DB2013</b>	<i>Vanuatu</i>	Vanuatu made obtaining a construction permit more cumbersome by making a preliminary environmental assessment mandatory and made it more expensive by increasing the fees.
<b>DB2012</b>	<i>Taiwan, China</i>	Taiwan (China) made dealing with construction permits easier by creating a one-stop center.
<b>DB2012</b>	<i>Vanuatu</i>	Vanuatu made dealing with construction permits more difficult by increasing the number of procedures and the cost to obtain a building permit.
<b>DB2011</b>	<i>Vietnam</i>	Vietnam made dealing with construction permits easier by reducing the cost to register newly completed buildings by 50% and transferring the authority to register buildings from local authorities to the Department of National Resources and Environment.
<b>DB2011</b>	<i>Philippines</i>	The Philippines made construction permitting more cumbersome through updated electricity connection costs.
<b>DB2010</b>	<i>Singapore</i>	Singapore made dealing with construction permits easier through new workplace safety and health regulations allowing companies in low-risk industries to submit documents online.
<b>DB2010</b>	<i>Solomon Islands</i>	The cost of dealing with construction permits increased significantly in the Solomon Islands as a result of fee increases and high prices for construction materials.
<b>DB2010</b>	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, reduced the time required to obtain a building permit by establishing a one-stop center that brings together 6 local departments and 2 private utility companies under the same roof.

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 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. In addition, this year Doing Business adds two new measures: the reliability of supply and transparency of tariffs index (included in the aggregate distance to frontier score and ranking on the ease of doing business) and the price of electricity (omitted from these aggregate measures). The ranking of economies on the ease of getting electricity is determined by sorting their distance to frontier scores for getting electricity. These scores are the simple average of the distance to frontier scores for each of the component indicators. To make the data comparable across economies, several assumptions are used.

### Assumptions about the warehouse

The warehouse:

- Is owned by a local entrepreneur.
- Is located in the economy's largest business city. For 11 economies the data are also collected for the second largest business city.
- Is located in an area where similar warehouses are typically located. In this area a new electricity connection is not eligible for a special investment promotion regime (offering special subsidization or faster service, for example), and located in an area with no physical constraints. For example, the property is not near a railway.
- Is a new construction and is being connected to electricity for the first time.

### 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

#### The reliability of supply and transparency of tariffs index

- Sum of the scores of six component indices:
  - Duration and frequency of outages
  - Tools to monitor power outages
  - Tools to restore power supply
  - Regulatory monitoring of utilities' performance
  - Financial deterrents aimed at limiting outages
  - Transparency and accessibility of tariffs

#### Price of electricity (cents per kilowatt-hour)\*

Price based on monthly bill for commercial warehouse in case study

*\*Price of electricity is not included in the calculation of distance to frontier nor ease of doing business ranking*

The warehouse (*continued*):

- Has two stories, both above ground, with a total surface area of approximately 1,300.6 square meters (14,000 square feet). The plot of land on which it is built is 929 square meters (10,000 square feet).
- Is used for storage of goods.

#### **Assumptions about the electricity connection**

The electricity connection:

- Is a permanent one.
- Is a three-phase, four-wire Y, 140-kilovolt-ampere (kVA) (subscribed capacity) connection (where the voltage is 120/208 V, the current would be 400 amperes; where it is 230/400 B, the current would be nearly 200 amperes).
- Is 150 meters long. The connection is to either the low-voltage or the medium-voltage distribution network and either overhead or underground, whichever is more common in the area where the warehouse is located.
- Requires works that involve the crossing of a 10-meter road (such as by excavation or overhead lines) but are all carried out on public land. There is no crossing of other owners' private property because the warehouse has access to a road.
- Includes only a negligible length in the customer's private domain.
- Will supply monthly electricity consumption of 26,880 kilowatt-hours (kWh).
- Does not involve work to install the internal electrical wiring. This has already been completed, up to and including the customer's service panel or switchboard and installation of the meter base.

#### **Assumptions about the monthly consumption**

- It is assumed that the warehouse operates 8 hours a day for 30 days a month, with equipment utilized at 80% of capacity on average, and that there are no electricity cuts (assumed for simplicity). The subscribed capacity of the warehouse is 140 kVA, with a power factor of 1 (1 kVA = 1 kW). The monthly energy consumption is therefore 26,880 kWh, and the hourly consumption 112 kWh (26,880 kWh/30 days/8 hours).
- If multiple electricity suppliers exist, the warehouse is served by the cheapest supplier.
- Tariffs effective in March of the current year are used for calculation of the price of electricity for the warehouse.

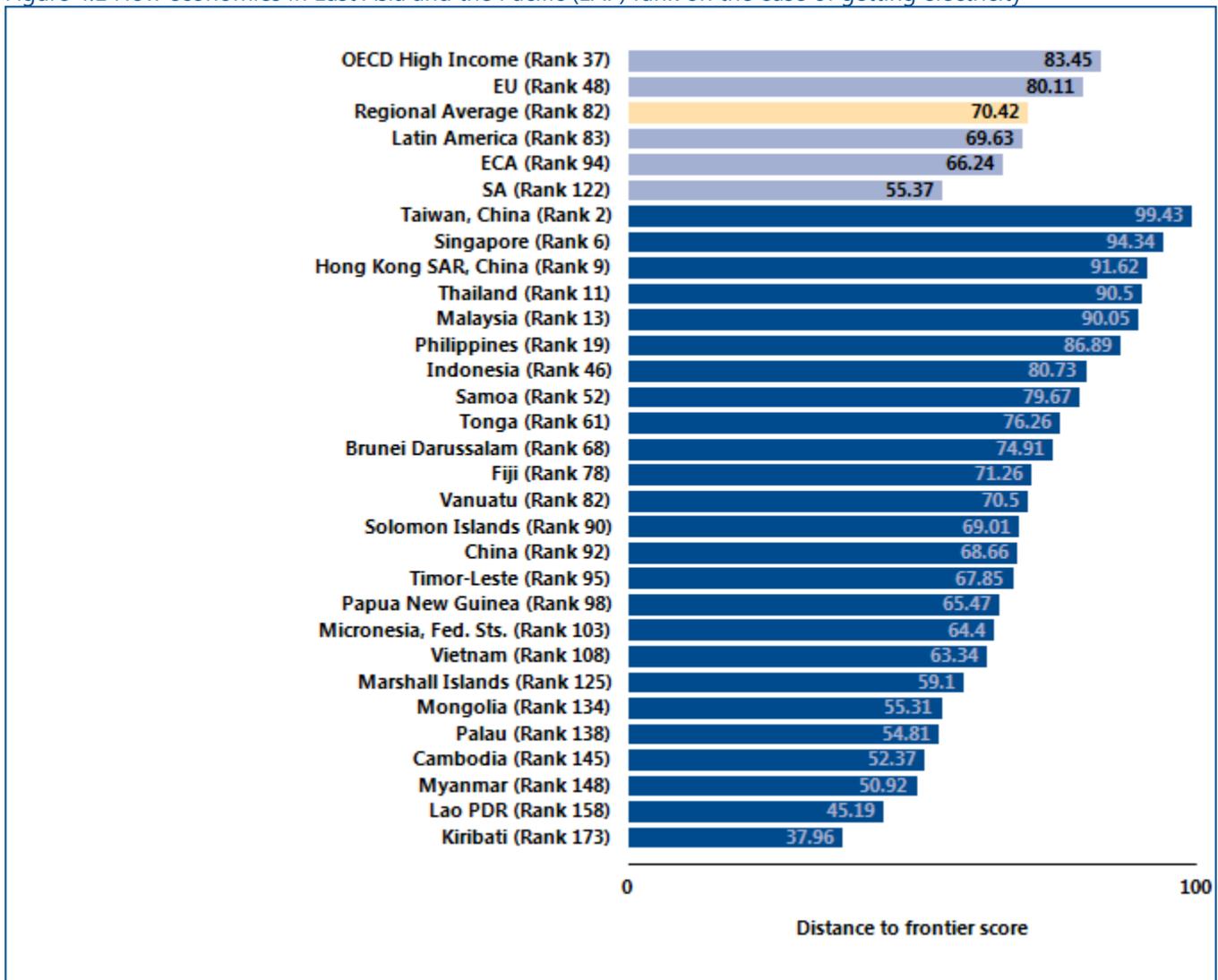
## GETTING ELECTRICITY

### Where do the region’s economies stand today?

How easy is it for entrepreneurs in economies in East Asia and the Pacific (EAP) to connect a warehouse to electricity? The global rankings of these economies on the ease of getting electricity suggest an answer (figure

4.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 4.1 How economies in East Asia and the Pacific (EAP) rank on the ease of getting electricity



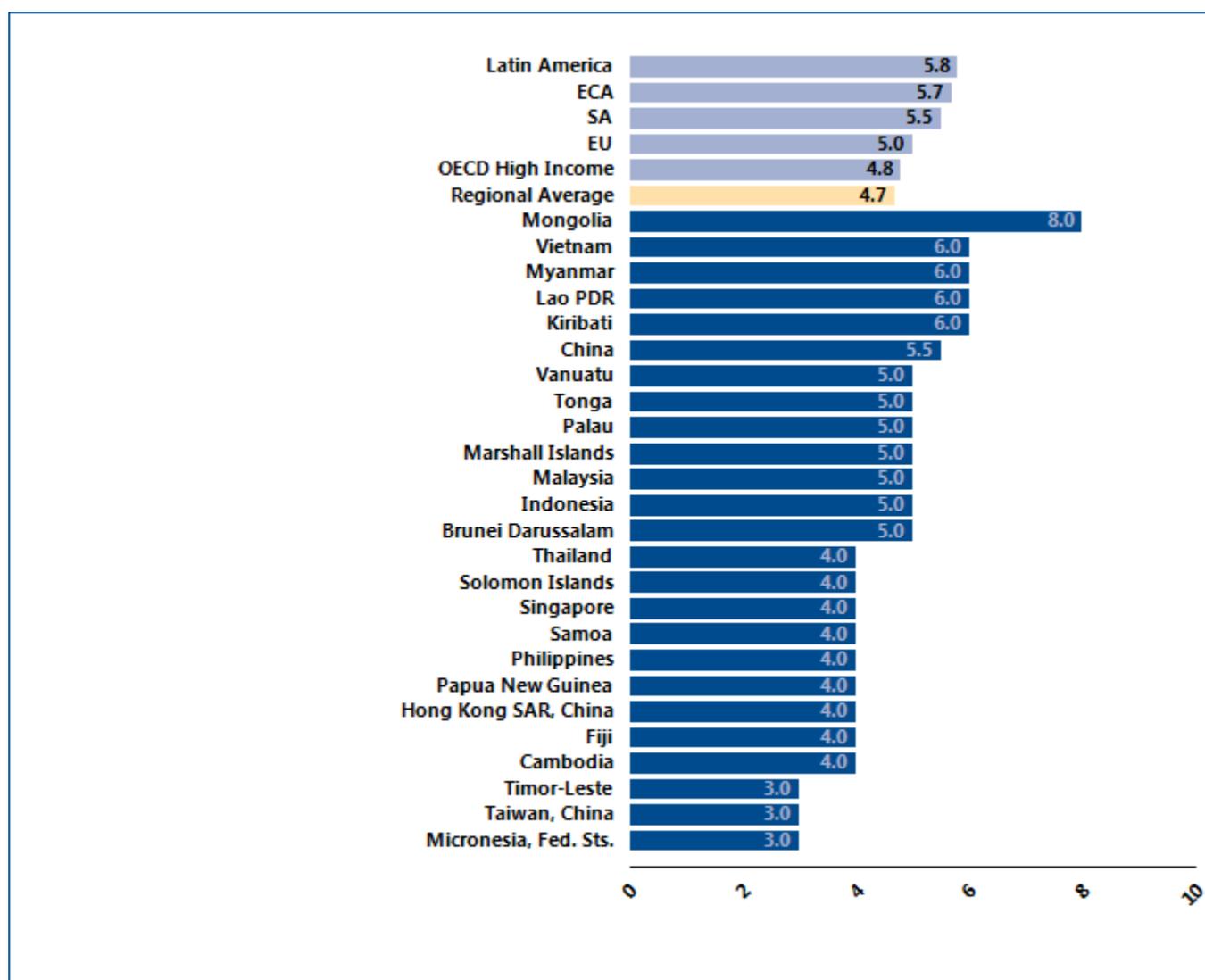
Source: Doing Business database.

## GETTING ELECTRICITY

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show what it takes to get a new electricity connection in each economy in the region: the number of procedures, the

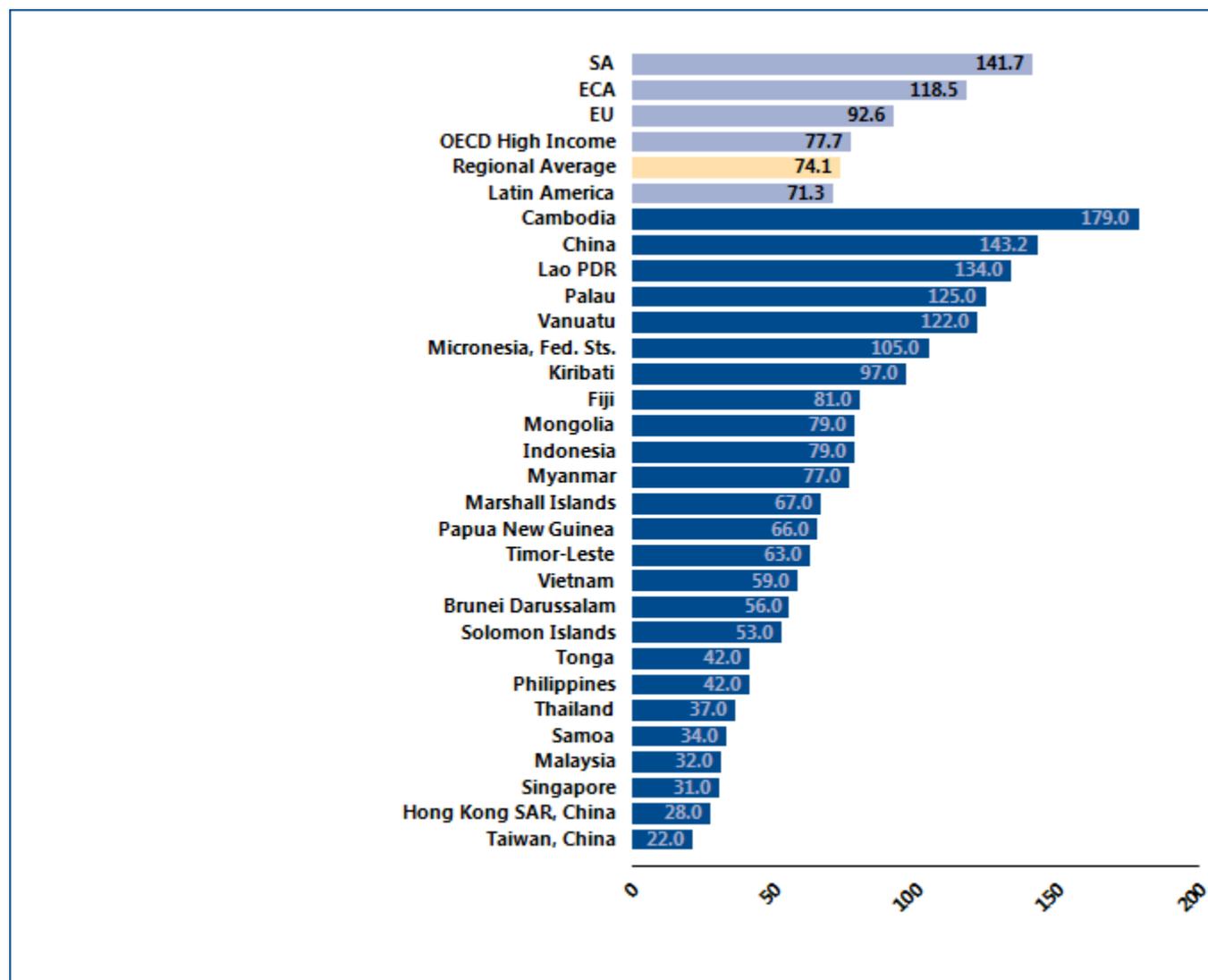
time and the cost (figure 4.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

Figure 4.2 What it takes to get an electricity connection in economies in East Asia and the Pacific (EAP)  
**Procedures (number)**



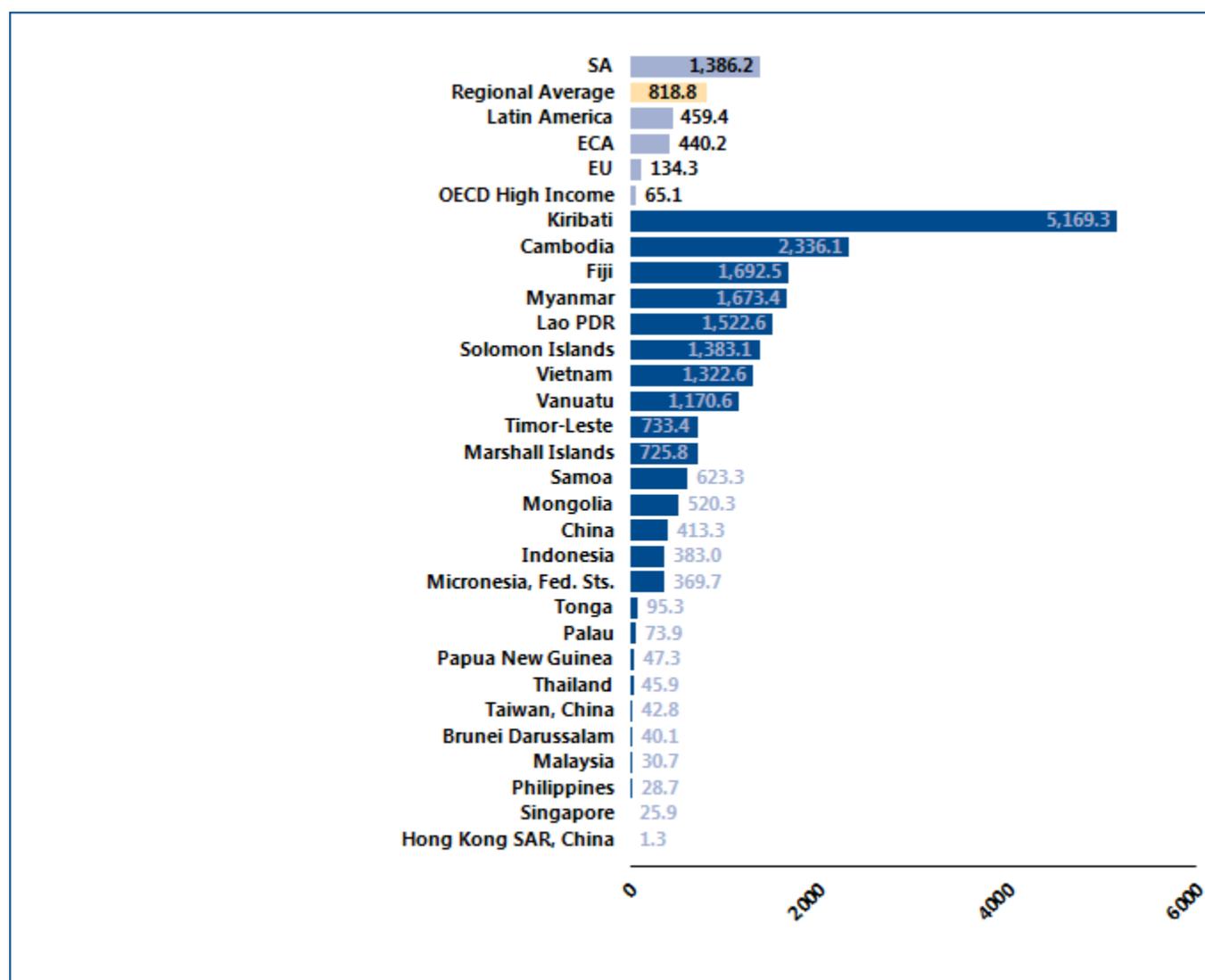
## GETTING ELECTRICITY

Time (days)



## GETTING ELECTRICITY

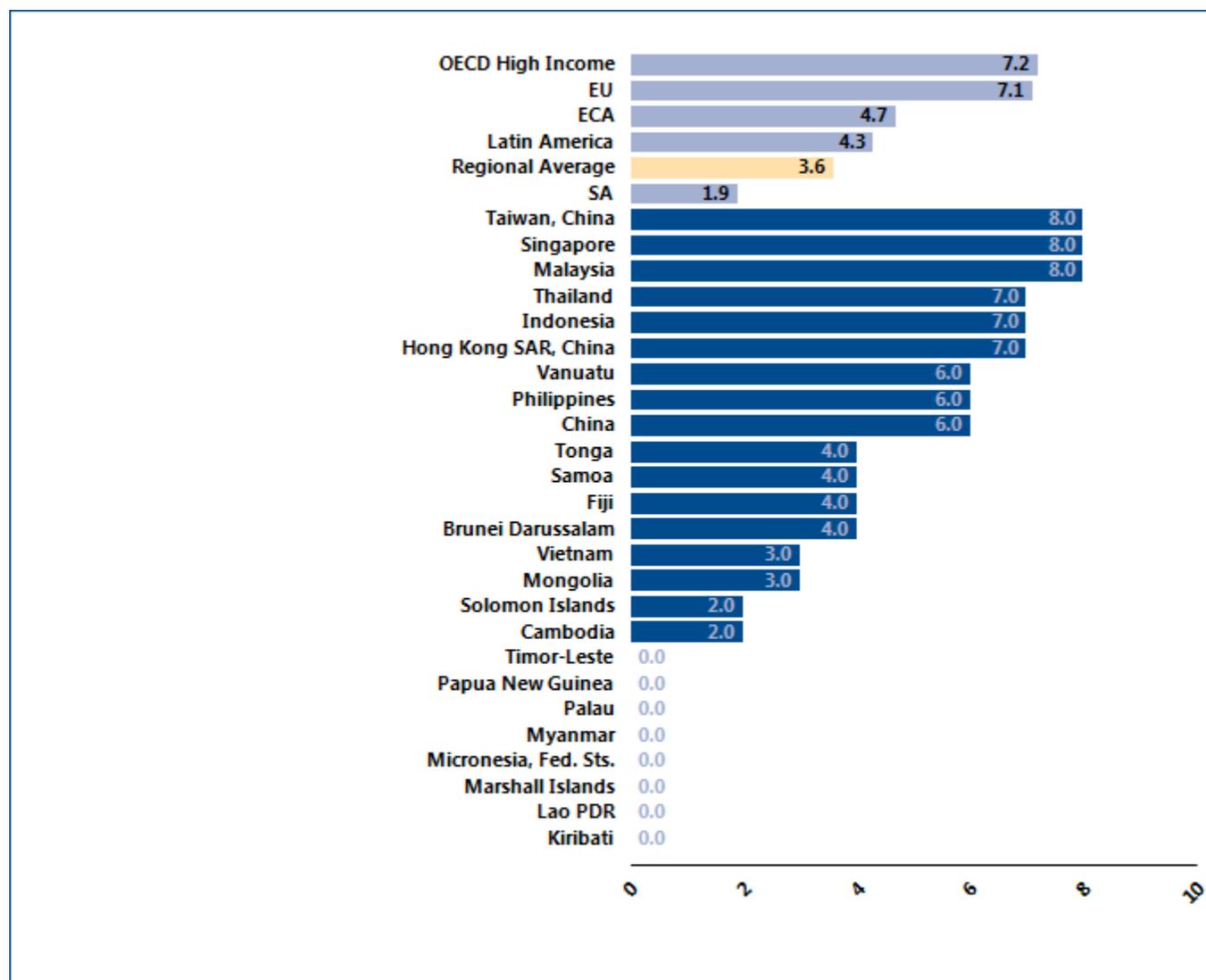
### Cost (% of income per capita)



Source: Doing Business database.

## GETTING ELECTRICITY

## Reliability of supply and transparency of tariff index (0-8)



Source: *Doing Business* database.

Note: The index ranges from 0 to 8, with higher values indicating greater reliability of electricity supply and greater transparency of tariffs.

## GETTING ELECTRICITY

### What are the changes over time?

Obtaining an electricity connection is essential to enable a business to conduct its most basic operations. In many economies the connection process is complicated by the multiple laws and regulations involved—covering service quality, general safety, technical standards, procurement practices and internal wiring installations. In an effort to

ensure safety in the connection process while keeping connection costs reasonable, governments around the world have worked to consolidate requirements for obtaining an electricity connection. What reforms in getting electricity has *Doing Business* recorded in East Asia and the Pacific (EAP) (table 4.1)?

Table 4.1 How have economies in East Asia and the Pacific (EAP) made getting electricity easier—or not? By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Hong Kong SAR, China</i>	The utility in Hong Kong SAR, China, made getting electricity easier by streamlining the process for reviewing connection applications and for completing the connection works and meter installation. In addition, the time needed to issue an excavation permit was reduced.
DB2016	<i>Cambodia</i>	Cambodia reduced the average frequency and duration of power outages experienced by a customer over the course of a year in Phnom Penh by increasing power generation capacity.
DB2016	<i>Myanmar</i>	The Ministry of Electric Power facilitated the process to obtain a new electricity connection in Myanmar by reducing delays through fewer approvals.
DB2016	<i>Taiwan, China</i>	The utility in Taiwan, China, reduced the time required for getting an electricity connection through a simplified procedure for obtaining excavation permits from the municipality.
DB2016	<i>Vietnam</i>	The utility in Vietnam reduced the time required for getting an electricity connection by reducing delays and increasing efficiency in approving connection applications and designs for connection works.
DB2015	<i>Indonesia</i>	In Indonesia the electricity company in Jakarta made getting electricity easier by eliminating the need for electrical contractors to obtain multiple certificates guaranteeing the safety of internal installations—though. The utility in Jakarta and Surabaya also increased the cost by introducing a security deposit for new connections.
DB2015	<i>Solomon Islands</i>	The Solomon Islands made getting electricity easier by improving procurement practices for the materials needed to

DB year	Economy	Reform
		establish new connections.
<b>DB2015</b>	<i>Taiwan, China</i>	Taiwan, China, made getting electricity easier by eliminating site inspections.
<b>DB2014</b>	<i>Mongolia</i>	Mongolia made getting electricity easier by increasing the efficiency of the utility's internal processes, enforcing time limits at different stages of the connection process and eliminating the fees for testing the installation.
<b>DB2014</b>	<i>Malaysia</i>	Malaysia made getting electricity easier by increasing the efficiency of internal processes at the utility and improving its communication and dialogue with contractors.
<b>DB2013</b>	<i>Indonesia</i>	Indonesia made getting electricity easier by eliminating the requirement for new customers applying for an electricity connection to show a neighbor's electricity bill as a way to help determine their address.
<b>DB2012</b>	<i>Tonga</i>	Tonga made getting electricity faster by implementing a time limit for the safety inspection.
<b>DB2012</b>	<i>Brunei Darussalam</i>	Brunei Darussalam made getting electricity easier by establishing a one-stop shop and reducing the time required to obtain an excavation permit.
<b>DB2012</b>	<i>Hong Kong SAR, China</i>	Hong Kong SAR (China) made getting electricity easier by increasing the efficiency of public agencies and streamlining the utility's procedures with other government agencies.
<b>DB2012</b>	<i>Indonesia</i>	Indonesia made getting electricity more difficult by increasing connection fees.

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. In addition, this year *Doing Business* adds a new measure to the set of registering property indicators, an index of the quality of the land administration system in each economy. The ranking of economies on the ease of registering property is determined by sorting their distance to frontier scores for registering property. These scores are the simple average of the distance to frontier scores for each of the component indicators. 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 and perform general commercial activities and are located in the economy's largest business city<sup>2</sup>.
- Have 50 employees each, all of whom are nationals.

The property (fully owned by the seller):

- Has a value of 50 times income per capita. The sale price equals the value and entire property will be transferred.
- Is registered in the land registry or cadastral, or both, and is free of title disputes.

### 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<sup>2</sup>

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. Procedures that can be fully completed online are recorded as ½ day.

Procedure considered 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

#### Quality of land administration index (0-30)

- Is located in a periurban commercial zone, and no rezoning is required.
- Has no mortgages attached, 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. There is no heating system.

<sup>2</sup> For the 11 economies with a population of more than 100 million, data for a second city have been added.

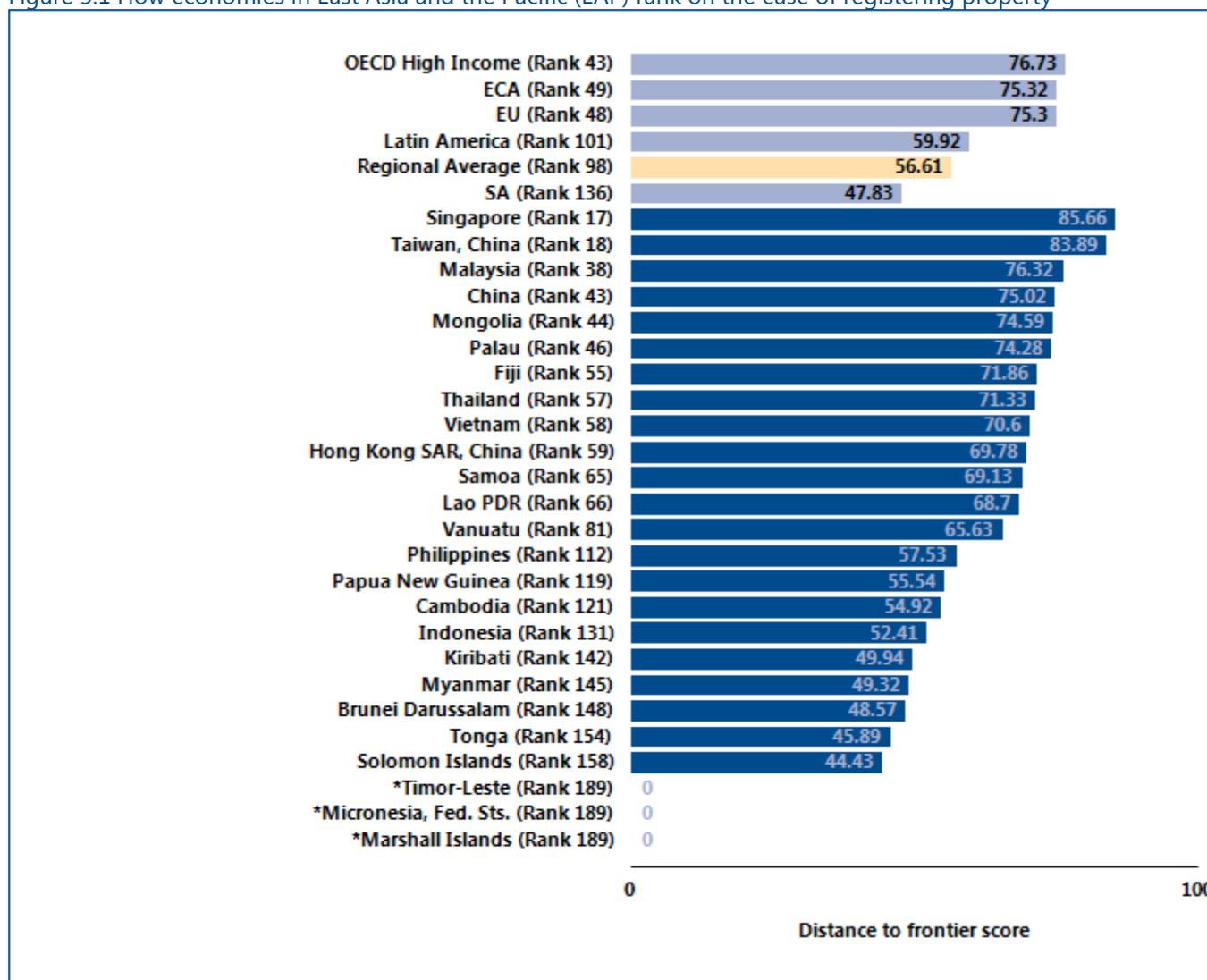
## REGISTERING PROPERTY

### Where do the region's economies stand today?

How easy is it for entrepreneurs in economies in East Asia and the Pacific (EAP) to transfer property? The global rankings of these economies on the ease of

registering property suggest an answer (figure 5.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 5.1 How economies in East Asia and the Pacific (EAP) rank on the ease of registering property



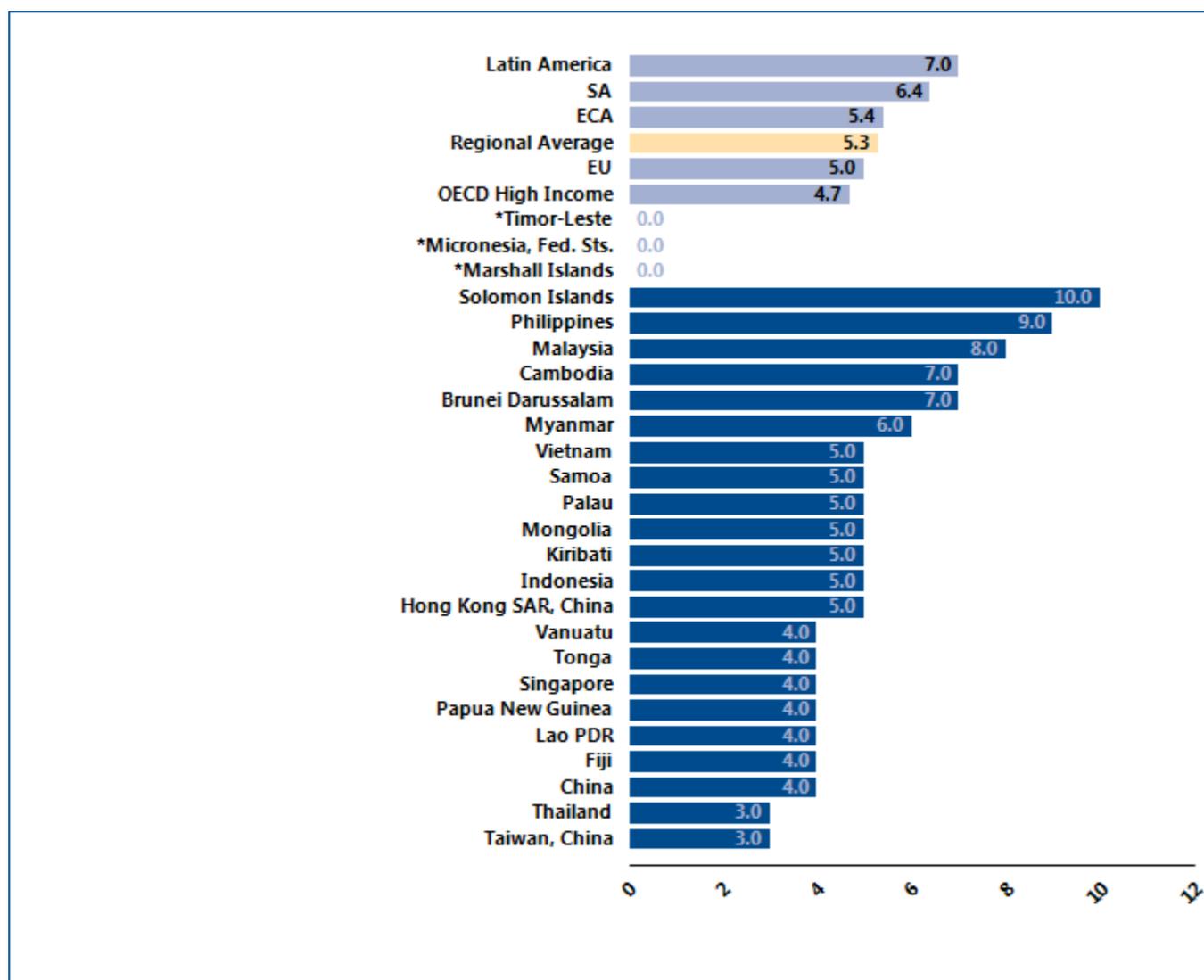
Source: Doing Business database.

## REGISTERING PROPERTY

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show what it takes to complete a property transfer in each economy in the region: the number of procedures, the

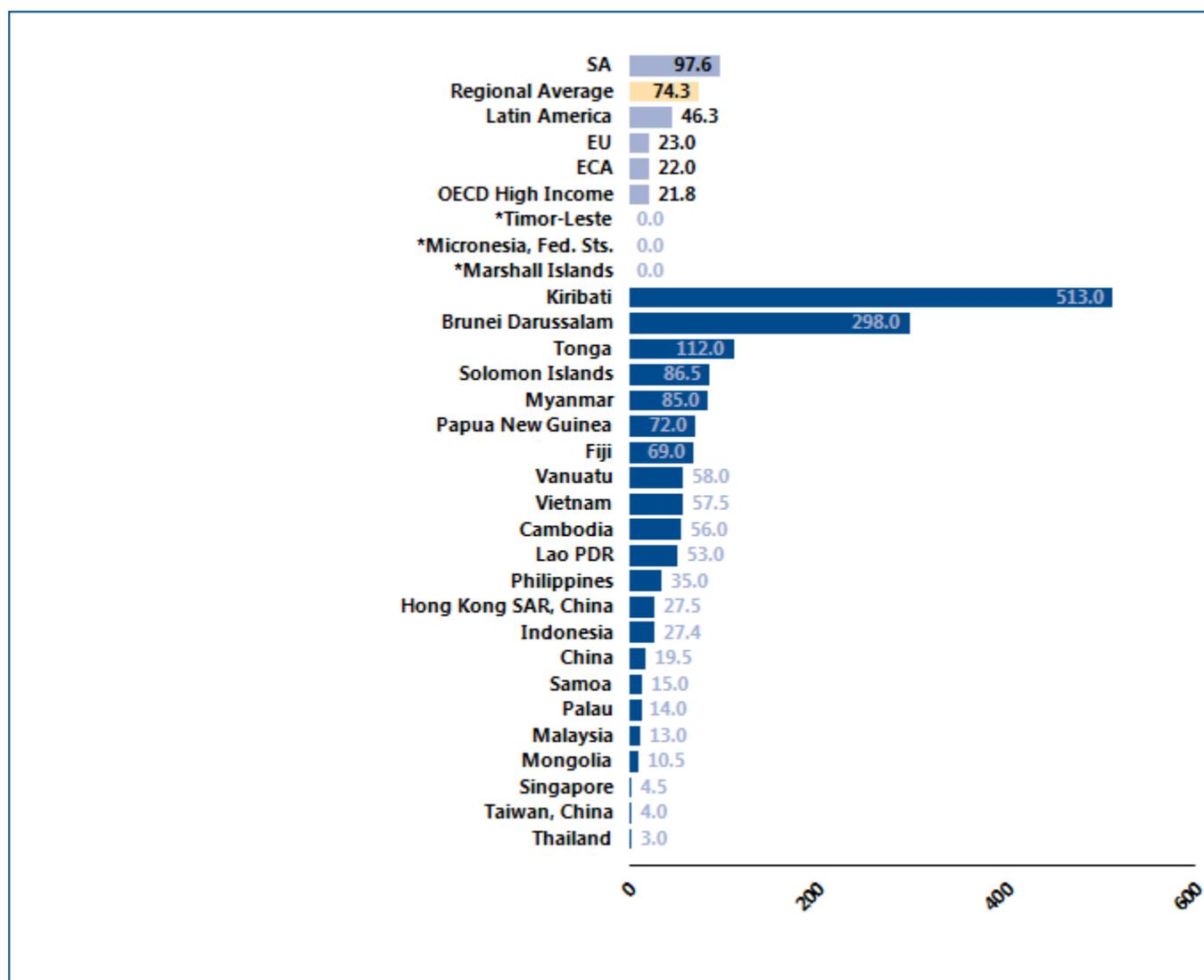
time and the cost (figure 5.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

Figure 5.2 What it takes to register property in economies in East Asia and the Pacific (EAP)  
**Procedures (number)**



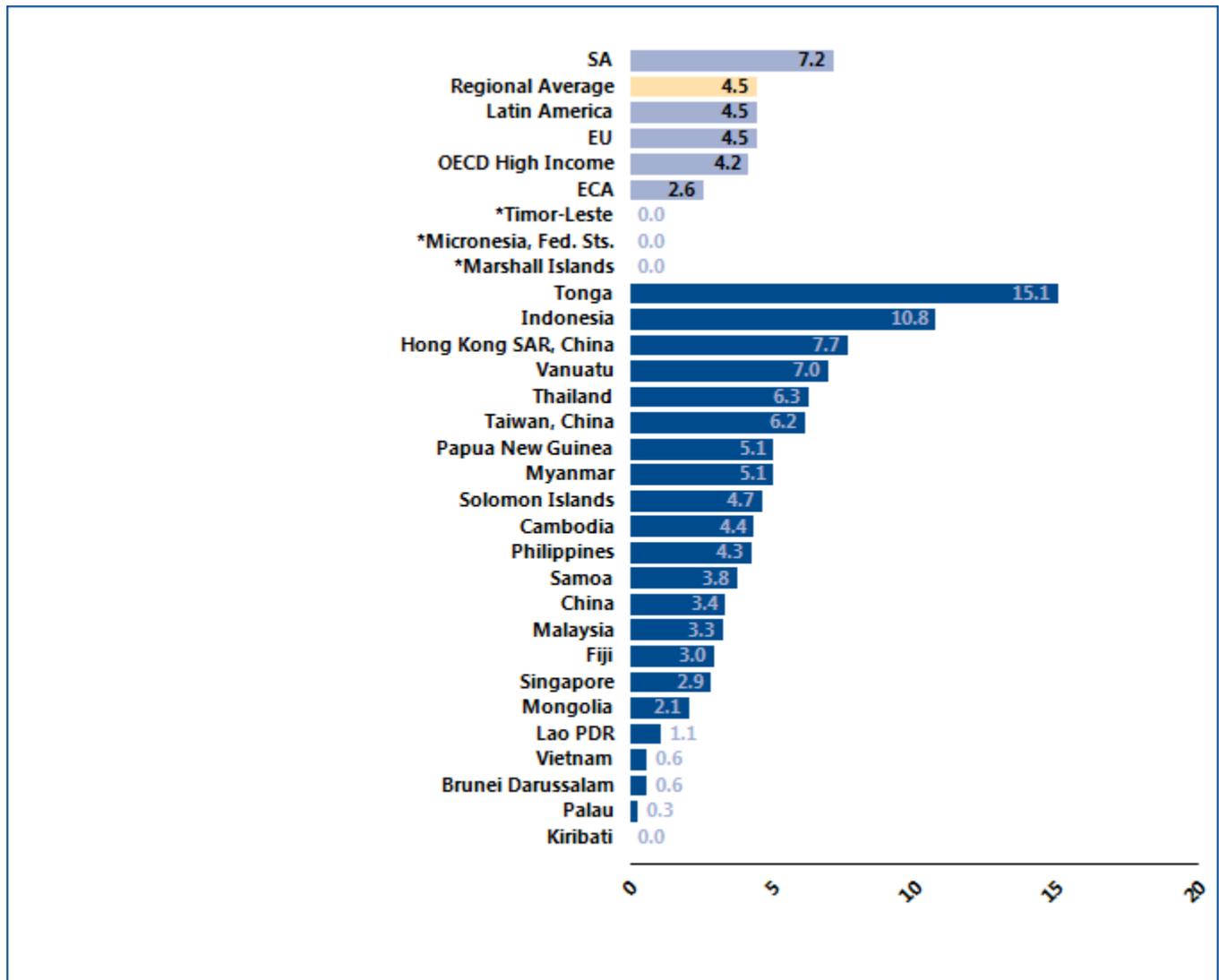
REGISTERING PROPERTY

Time (days)



## REGISTERING PROPERTY

## Cost (% of property value)

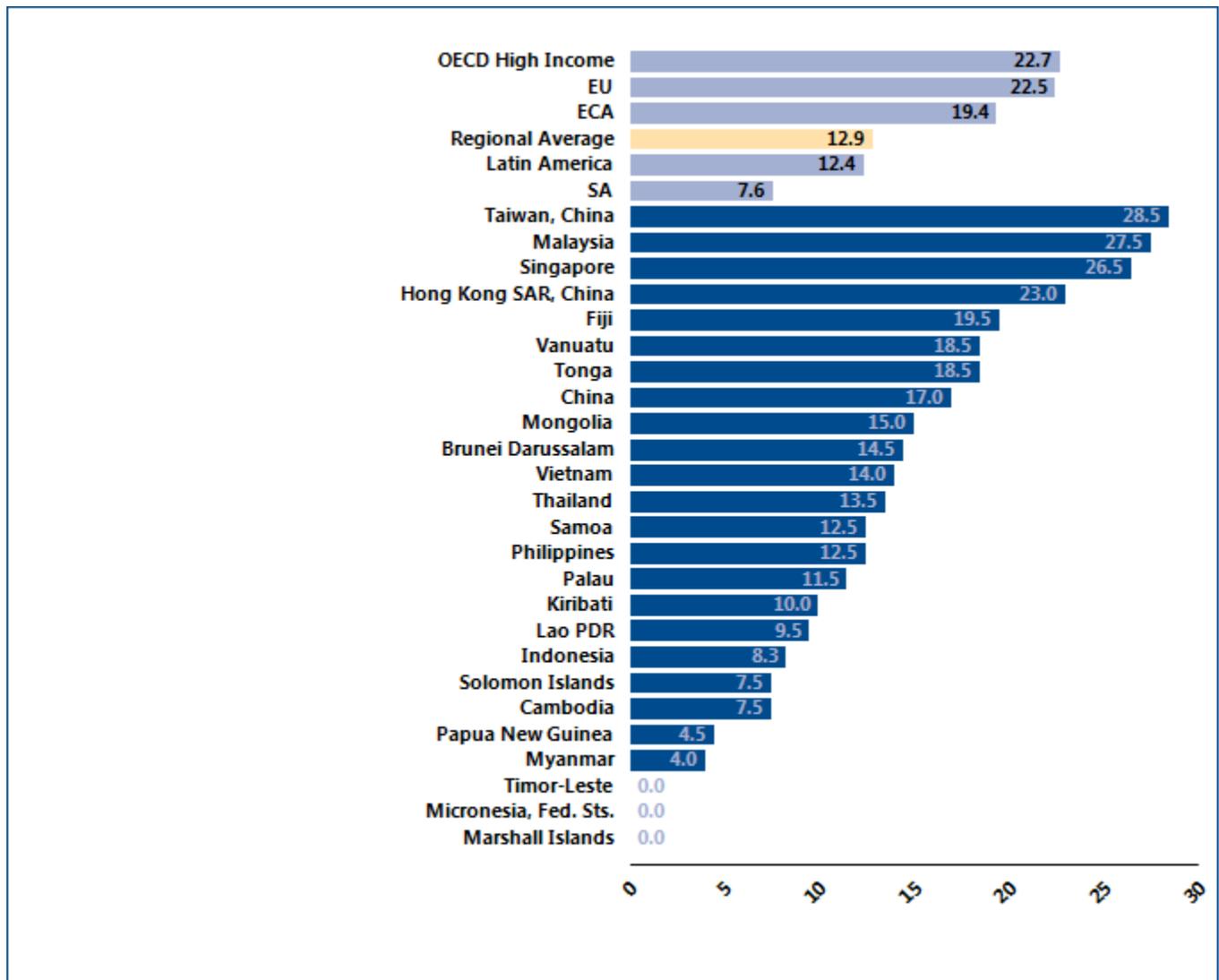


\* Indicates a “no practice” mark. If an economy has no laws or regulations covering a specific area—for example, insolvency—it receives a “no practice” mark. Similarly, an economy receives a “no practice” or “not possible” mark if regulation exists but is never used in practice or if a competing regulation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

Source: *Doing Business* database.

## REGISTERING PROPERTY

## Quality of Land Administration Index (0-30)



\* Indicates a “no practice” mark. 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.

Source: *Doing Business* database.

Note: The index ranges from 0 to 30, with higher values indicating better quality of the land administration system.

## REGISTERING PROPERTY

### What are the changes over time?

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 East Asia and the Pacific (EAP) (table 5.1)?

Table 5.1 How have economies in East Asia and the Pacific (EAP) made registering property easier—or not?  
By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Vanuatu</i>	Vanuatu improved the quality of land administration by appointing a land ombudsman to deal with complaints relating to the land registry.
DB2015	<i>Vanuatu</i>	Vanuatu made property transfers faster by digitizing its land registry system and hiring and training new staff.
DB2014	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made transferring property more costly by increasing the stamp duty.
DB2014	<i>Singapore</i>	Singapore made transferring property easier by introducing an online procedure for property transfers.
DB2014	<i>Samoa</i>	Samoa made transferring property more expensive by increasing the stamp duty.
DB2013	<i>Fiji</i>	Fiji made transferring property more difficult by requiring parties to a property transaction to obtain a capital gains tax clearance certificate from the Fiji Revenue and Customs Authority.
DB2013	<i>Malaysia</i>	Malaysia substantially reduced the number of days it takes to register property transfers.
DB2012	<i>Solomon Islands</i>	The Solomon Islands made registering property faster by separating the land registry from the business and movable property registries.
DB2012	<i>Thailand</i>	Thailand made registering property more expensive by increasing the registration fee.

DB year	Economy	Reform
DB2012	<i>Tonga</i>	Tonga made transferring property more costly.
DB2012	<i>Vanuatu</i>	Vanuatu made registering property easier by computerizing the land registry.
DB2011	<i>Thailand</i>	Thailand made registering property more costly by repealing a 2-year temporary tax reduction for property transfers.
DB2011	<i>Samoa</i>	Samoa shifted from a deed system to a title system and fully computerized its land registry, which reduced the time required to register property by 4 months.
DB2011	<i>Lao PDR</i>	Lao PDR made registering property faster by moving to a title system.
DB2011	<i>Malaysia</i>	Malaysia's introduction of online stamping reduced the time and cost to transfer property.
DB2010	<i>Indonesia</i>	Indonesia made registering property easier by introducing time limits for procedures at the land registry.
DB2010	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made registering property easier by making it possible to submit the stamp duty for the sale act (property assignment) online.
DB2010	<i>Singapore</i>	Singapore made registering property easier by upgrading electronic systems and streamlining the administrative procedures of the government agencies involved.

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

Two types of frameworks can facilitate access to credit and improve its allocation: credit information systems and borrowers and lenders in collateral and bankruptcy laws. Credit information systems enable lenders' rights 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 credit registry or a credit bureau. The strength of legal rights index measures whether certain features that facilitate lending exist within the applicable collateral and bankruptcy laws. *Doing Business* uses two case scenarios, Case A and Case B, 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 (for more details on each case, see the Data Notes section of the *Doing Business 2016* report). 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. For the 11 economies with a population of more than 100 million, data for a second city have been added.

### WHAT THE GETTING CREDIT INDICATORS MEASURE

#### Strength of legal rights index (0–12)

Rights of borrowers and lenders through collateral laws

Protection of secured creditors' rights through bankruptcy laws

#### Depth of credit information index (0–8)

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

#### Credit bureau coverage (% of adults)

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

#### Credit registry coverage (% of adults)

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

- Has up to 50 employees.
- Is 100% domestically owned, as is the lender.

The ranking of economies on the ease of getting credit is determined by sorting their distance to frontier scores for getting credit. These scores are the distance to frontier score for the strength of legal rights index and the depth of credit information index.

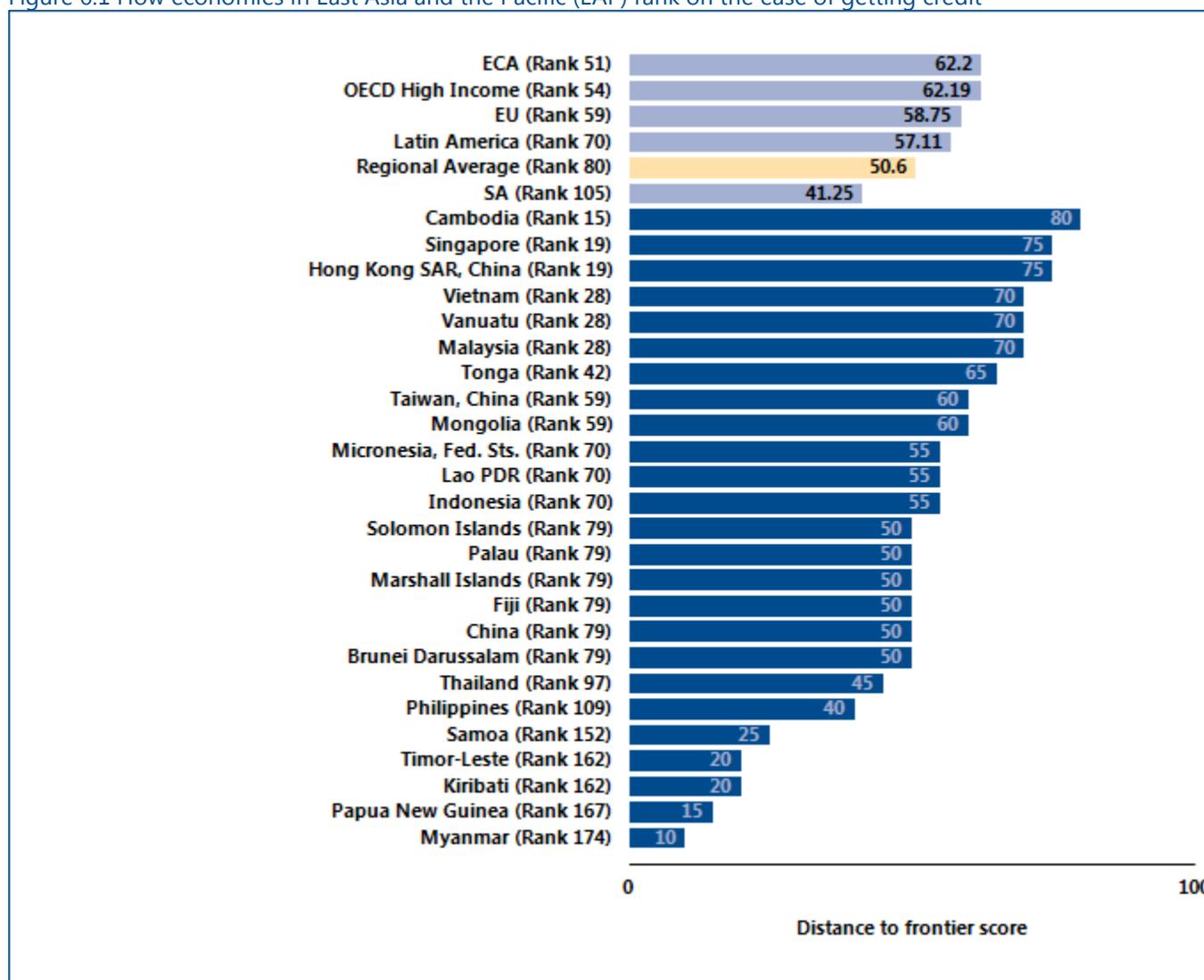
## GETTING CREDIT

### Where do the region's economies stand today?

How well do the credit information systems and collateral and bankruptcy laws in economies in East Asia and the Pacific (EAP) facilitate access to credit? The global rankings of these economies on the ease of

getting credit suggest an answer (figure 6.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 6.1 How economies in East Asia and the Pacific (EAP) rank on the ease of getting credit



Source: Doing Business database.

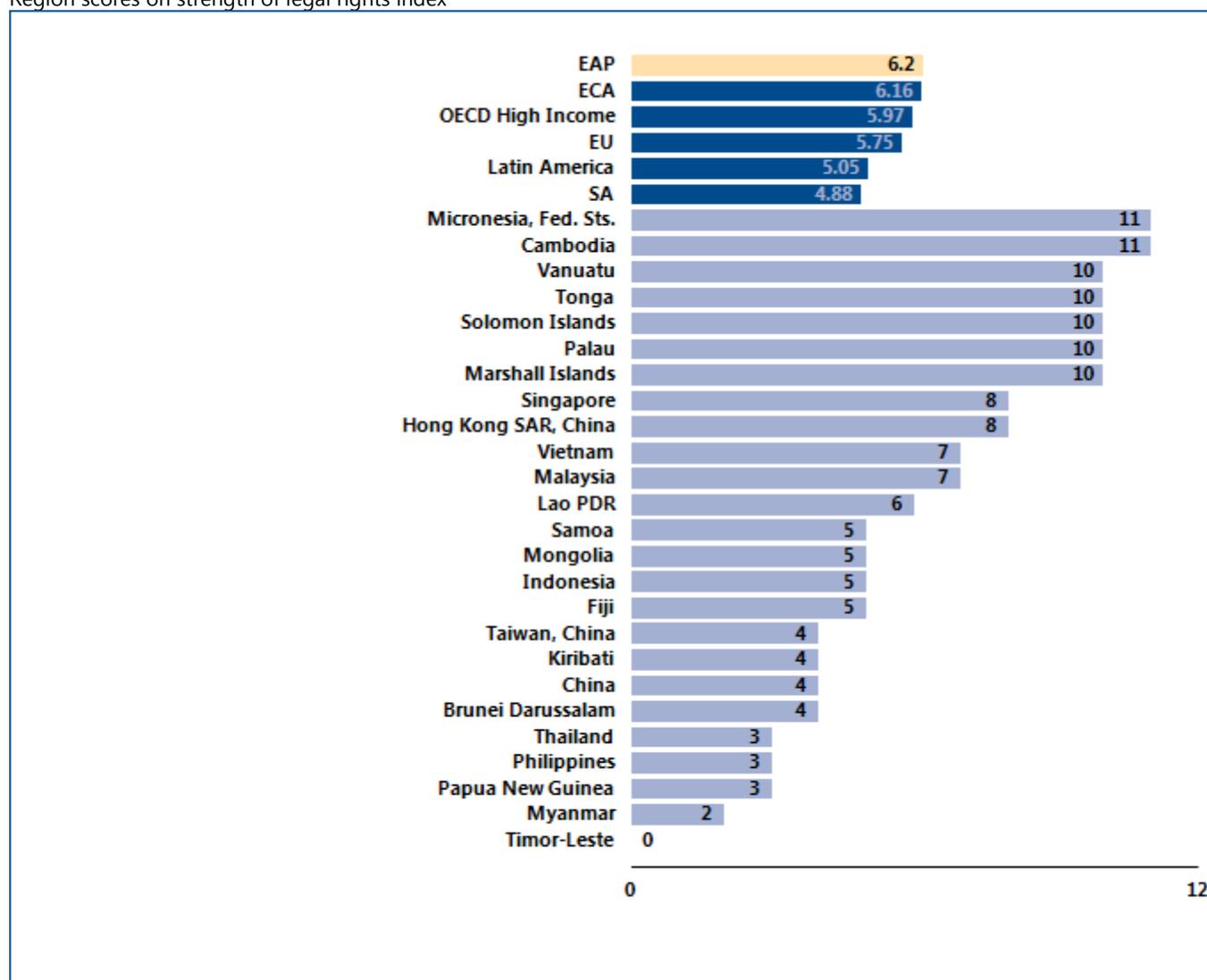
## GETTING CREDIT

Another way to assess how well regulations and institutions support lending and borrowing in the region is to see where the region stands in the distribution of scores across regions. Figure 6.2 highlights the score on

the strength of legal rights index for East Asia and the Pacific (EAP) and comparators on the strength of legal rights index. Figure 6.3 shows the same thing for the depth of credit information index.

Figure 6.2 How strong are legal rights for borrowers and lenders?

Region scores on strength of legal rights index

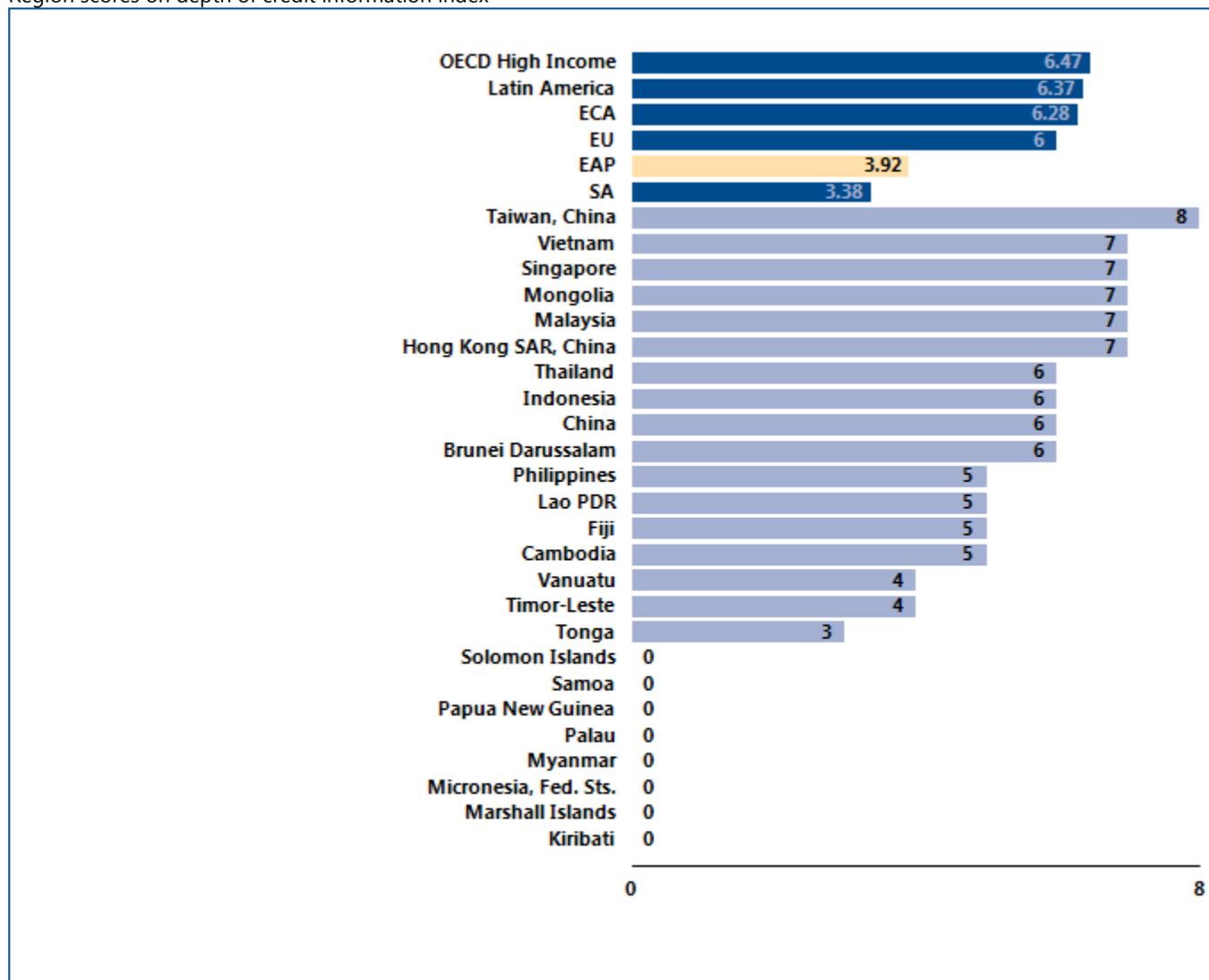


Note: Higher scores indicate that collateral and bankruptcy laws are better designed to facilitate access to credit.

Source: *Doing Business* database.

Figure 6.3 How much credit information is shared—and how widely?

Region scores on depth of credit information index



Note: Higher scores indicate the availability of more credit information, from either a credit registry or a credit bureau, to facilitate lending decisions. If the credit bureau or registry is not operational or covers less than 5% of the adult population, the total score on the depth of credit information index is 0.

Source: *Doing Business* database.

## GETTING CREDIT

### What are the changes over time?

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 East Asia and the Pacific (EAP) (table 6.1)?

Table 6.1 How have economies in East Asia and the Pacific (EAP) made getting credit easier—or not? By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, improved access to credit by implementing a modern collateral registry.
DB2016	<i>Indonesia</i>	Indonesia improved access to credit by enabling searches of the collateral registry by the debtor's name. This reform applies to both Jakarta and Surabaya.
DB2016	<i>Lao PDR</i>	The Lao People's Democratic Republic improved access to credit information by eliminating the threshold for the minimum size of loans to be included in the credit registry's database and by expanding borrower coverage.
DB2016	<i>Mongolia</i>	In Mongolia the credit registry began distributing data from a utility company, improving access to credit information.
DB2016	<i>Vietnam</i>	Vietnam guaranteed borrowers' right to inspect their credit data while the new credit bureau expanded borrower coverage, improving the credit information system.
DB2015	<i>Lao PDR</i>	The Lao People's Democratic Republic improved access to credit by implementing a modern, unified, notice-based collateral registry.
DB2015	<i>Taiwan, China</i>	Taiwan, China, improved access to credit information by beginning to include data from utility companies in credit reports.
DB2015	<i>Vietnam</i>	Vietnam improved its credit information system by establishing a new credit bureau.
DB2014	<i>Brunei Darussalam</i>	Brunei Darussalam improved access to credit information by establishing a public credit registry.
DB2014	<i>China</i>	China improved its credit information system by introducing credit information industry regulations, which guarantee

DB year	Economy	Reform
		borrowers' right to inspect their data.
<b>DB2014</b>	<i>Indonesia</i>	Indonesia improved its credit information system through a new regulation setting up a legal framework for establishing credit bureaus.
<b>DB2014</b>	<i>Philippines</i>	The Philippines improved access to credit information by beginning to distribute both positive and negative information and by enacting a data privacy act that guarantees borrowers' right to access their data.
<b>DB2014</b>	<i>Palau</i>	Palau strengthened its secured transactions system through a new law that establishes a centralized collateral registry, broadens the range of assets that can be used as collateral to include future assets, allows a general description in the security agreement of debts and obligations as well as assets pledged as collateral, establishes clear priority rules outside bankruptcy for secured creditors and allows out-of-court enforcement of the collateral.
<b>DB2014</b>	<i>Singapore</i>	Singapore improved its credit information system by guaranteeing by law borrowers' right to inspect their own data.
<b>DB2014</b>	<i>Tonga</i>	Tonga improved access to credit information by establishing a private credit bureau.
<b>DB2014</b>	<i>Vietnam</i>	Vietnam improved its credit information system through a decree setting up a legal framework for the establishment of private credit bureaus.
<b>DB2014</b>	<i>Vanuatu</i>	Vanuatu improved access to credit information by establishing a private credit bureau.
<b>DB2013</b>	<i>Mongolia</i>	Mongolia improved access to credit information by adopting a law that provides for licensing of credit reference bureaus and guarantees borrowers' right to inspect their personal data.
<b>DB2013</b>	<i>Cambodia</i>	Cambodia improved access to credit information by establishing its first private credit bureau.
<b>DB2012</b>	<i>Lao PDR</i>	Lao PDR improved access to credit information by establishing a public credit registry.

DB year	Economy	Reform
DB2012	<i>Tonga</i>	Tonga strengthened its secured transactions system by passing a new law that allows a general description of the obligation in the security agreement and gives secured creditors priority outside bankruptcy.
DB2012	<i>Mongolia</i>	Mongolia improved its credit information system by eliminating the minimum threshold for loans included in the database.
DB2012	<i>Timor-Leste</i>	Timor-Leste improved its credit information system by establishing a public credit registry.
DB2012	<i>Cambodia</i>	Cambodia strengthened its credit information system through a new regulation allowing credit bureaus to collect and distribute positive as well as negative credit information.
DB2011	<i>Vietnam</i>	Vietnam improved its credit information system by allowing borrowers to examine their own credit report and correct errors.
DB2011	<i>Marshall Islands</i>	The Marshall Islands improved access to credit through a new law on secured transactions that establishes a central collateral registry, broadens the range of assets that can be used as collateral, allows a general description of debts and obligations and assets granted as collateral and establishes clear priority rules outside bankruptcy for secured creditors.
DB2011	<i>Singapore</i>	Singapore improved its credit information system by collecting and distributing information on firms.
DB2011	<i>Solomon Islands</i>	The Solomon Islands strengthened access to credit by passing a new secured transactions law that broadens the range of assets that can be used as collateral, allows a general description of debts and obligations secured by collateral, permits out-of-court enforcement and creates a collateral registry.
DB2011	<i>Papua New Guinea</i>	Operation of a new private credit bureau improved the credit information system in Papua New Guinea.
DB2010	<i>Philippines</i>	The Philippines improved access to credit information through a new act regulating the operations and services of a credit information system.
DB2010	<i>Samoa</i>	Samoa strengthened its secured transactions system by beginning to enforce its new company act and securities act, which allow a corporation to grant a floating charge

DB year	Economy	Reform
		(debenture) over all its assets and which automatically extend a security interest to the products and proceeds of collateral for a floating charge.
<b>DB2010</b>	<i>Vanuatu</i>	Vanuatu strengthened its secured transactions system by launching a unified and geographically centralized collateral registry.

*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.

## PROTECTING MINORITY INVESTORS

Protecting minority investors matters for the ability of companies to raise the capital they need to grow, innovate, diversify and compete. Effective regulations define related-party transactions precisely, promote clear and efficient disclosure requirements, require shareholder participation in major decisions of the company and set detailed standards of accountability for company insiders.

### What do the indicators cover?

*Doing Business* measures the protection of minority investors from conflicts of interest through one set of indicators and shareholders' rights in corporate governance through another. The ranking of economies on the strength of minority investor protections is determined by sorting their distance to frontier scores for protecting minority investors. These scores are the simple average of the distance to frontier scores for the extent of conflict of interest regulation index and the extent of shareholder governance index. 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 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.

### WHAT THE PROTECTING MINORITY INVESTORS INDICATORS MEASURE

#### Extent of disclosure index (0–10)

Review and approval requirements for related-party transactions ; Disclosure requirements for related-party transactions

#### Extent of director liability index (0–10)

Ability of minority shareholders to sue and hold interested directors liable for prejudicial related-party transactions; Available legal remedies (damages, disgorgement of profits, fines, imprisonment, rescission of the transaction)

#### Ease of shareholder suits index (0–10)

Access to internal corporate documents; Evidence obtainable during trial and allocation of legal expenses

#### Extent of conflict of interest regulation index (0–10)

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

#### Extent of shareholder rights index (0-10)

Shareholders' rights and role in major corporate decisions

#### Extent of ownership and control index (0-10)

Governance safeguards protecting shareholders from undue board control and entrenchment

#### Extent of corporate transparency index (0-10)

Corporate transparency on ownership stakes, compensation, audits and financial prospects

#### Extent of shareholder governance index (0–10)

Simple average of the extent of shareholders rights, extent of ownership and control and extent of corporate transparency indices

#### Strength of investor protection index (0–10)

Simple average of the extent of conflict of interest regulation and extent of shareholder governance indices

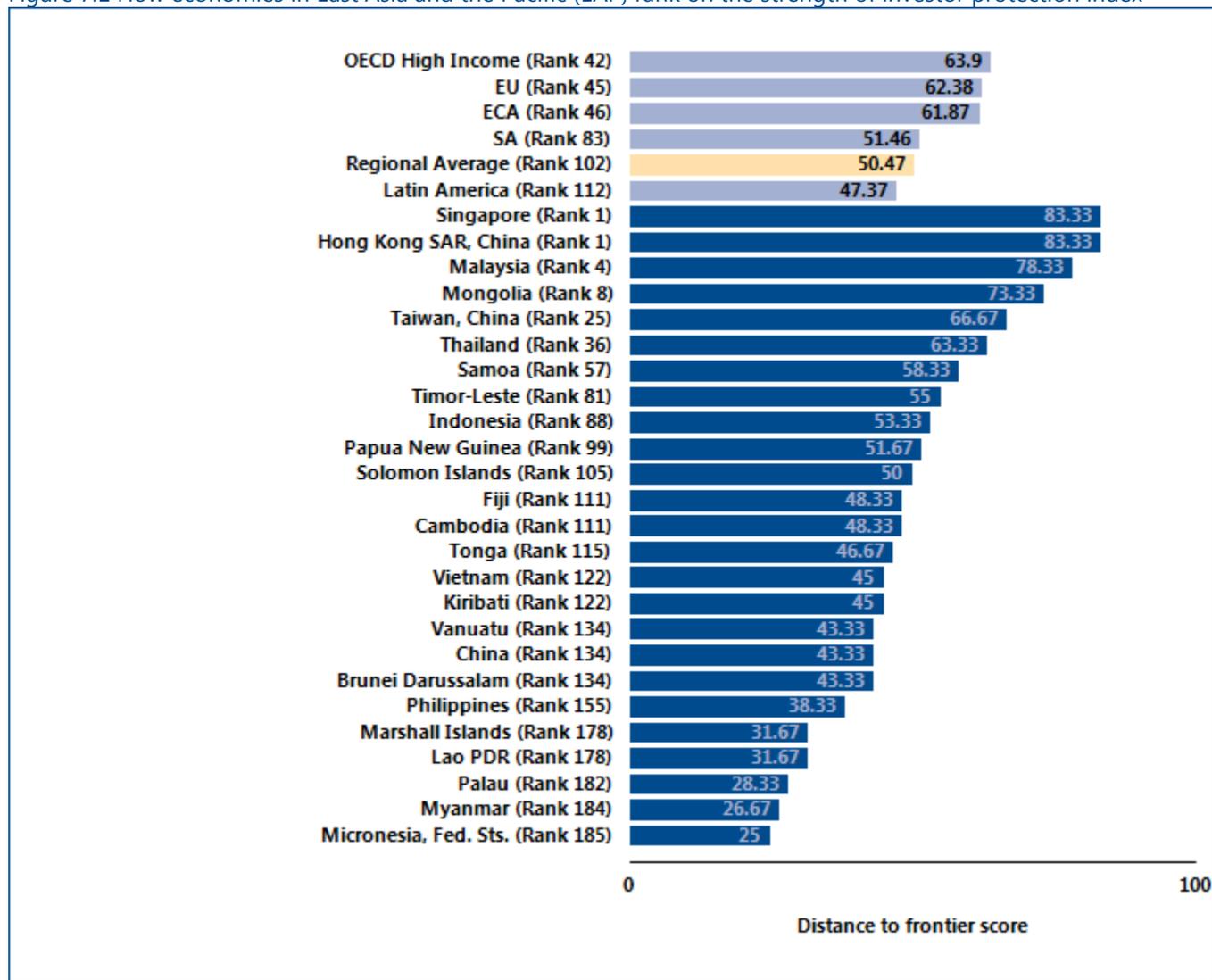
## PROTECTING MINORITY INVESTORS

### Where do the region's economies stand today?

How strong are investor protections against self-dealing in economies in East Asia and the Pacific (EAP)? The global rankings of these economies on the strength of investor protection index suggest an answer (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 economies in East Asia and the Pacific (EAP) rank on the strength of investor protection index



Source: Doing Business database.

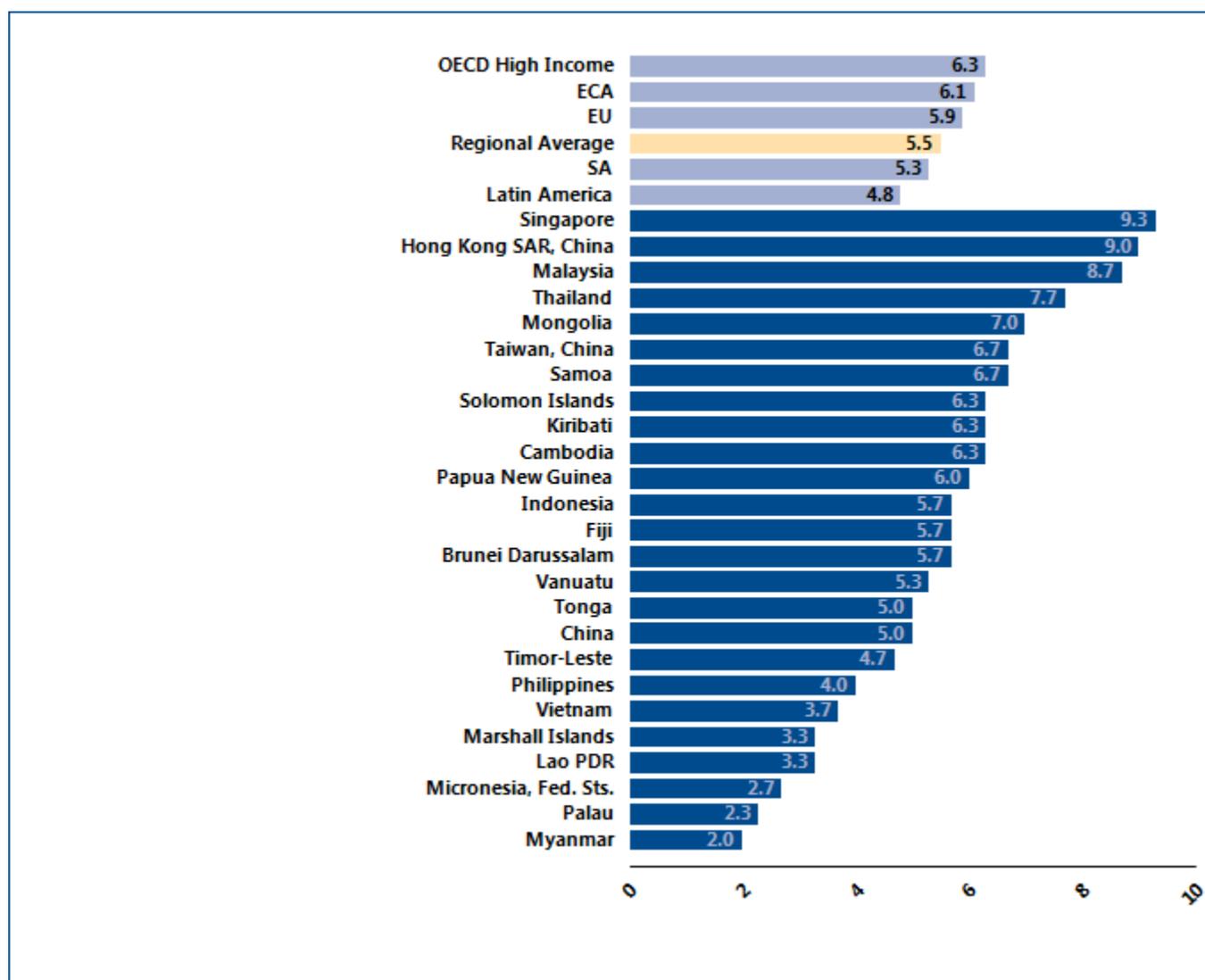
## PROTECTING MINORITY INVESTORS

The strength of minority investor protection index is the average of the extent of conflict of interest regulation index and the extent of shareholder governance index. The index ranges from 0 to 10, rounded to the nearest decimal place, with higher values indicating stronger minority investor protections. Figures 7.2 and 7.3

highlight the scores on the various minority investor protection indices for East Asia and the Pacific (EAP). Comparing the scores across the region and with averages both for the region and for comparator regions can provide useful insights.

Figure 7.2 How extensive are conflict of interest regulations?

**Extent of conflict of interest regulation index (0-10)**

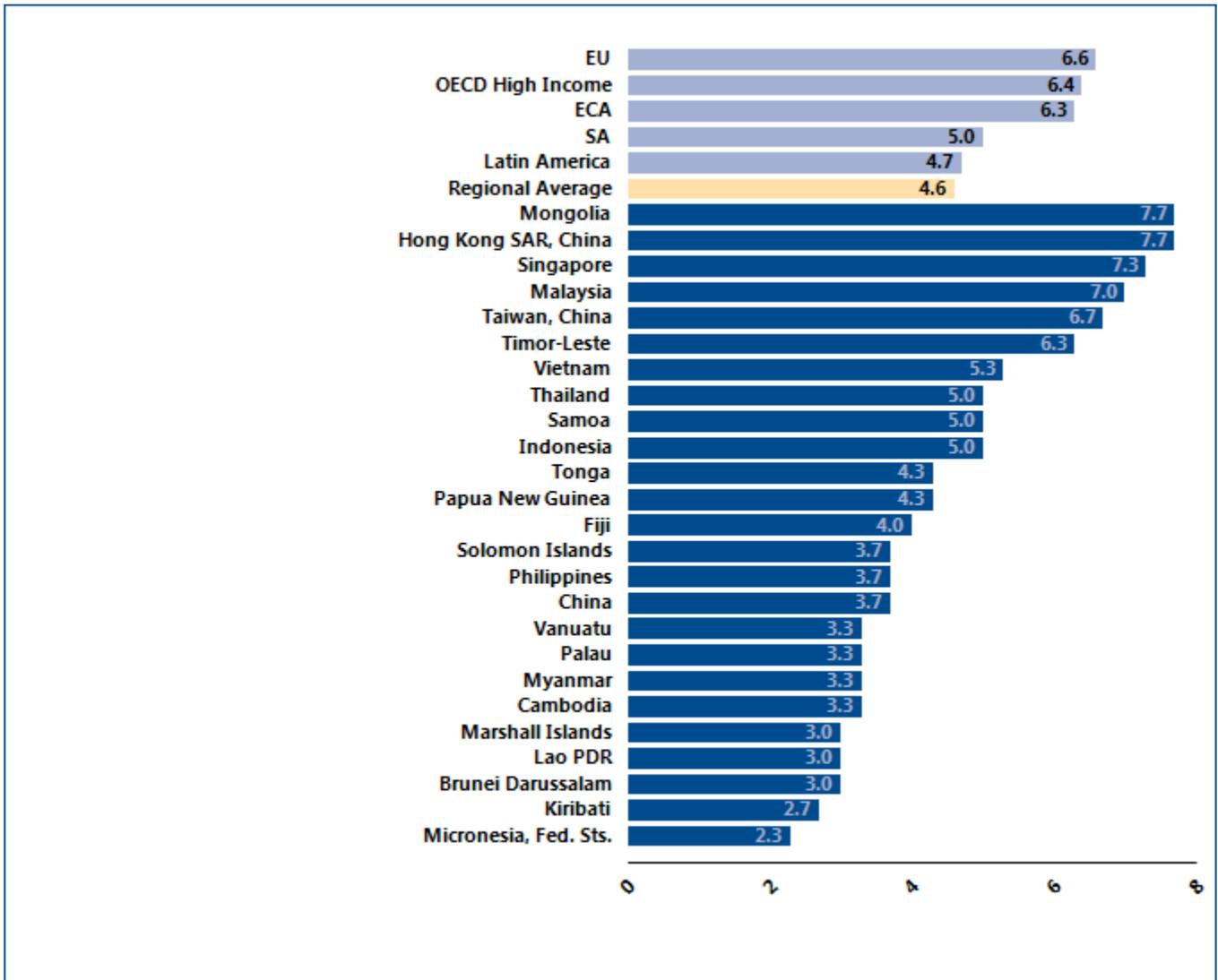


Note: Higher values indicate stronger regulation of conflicts of interest.

Source: Doing Business database.

Figure 7.3 How extensive is shareholder governance?

**Extent of shareholder governance index (0-10)**



Note: Higher scores indicate stronger rights of shareholders in corporate governance.

Source: Doing Business database.

## PROTECTING MINORITY INVESTORS

### What are the changes over time?

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

reforms to strengthen minority investor protections may move ahead on different fronts—such as through new or amended company laws, securities regulations or revisions to court procedures. What minority investor protection reforms has *Doing Business* recorded in East Asia and the Pacific (EAP) (table 7.1)?

Table 7.1 How have economies in East Asia and the Pacific (EAP) strengthened minority investor protections—or not?

By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2015	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, strengthened minority investor protections by introducing requirements for directors to provide more detailed disclosure of conflicts of interest to the other board members.
DB2015	<i>Lao PDR</i>	The Lao People's Democratic Republic strengthened minority investor protections by introducing requirements for directors to disclose in detail their conflicts of interest to the other board members and for companies to promptly disclose related-party transactions to the Securities Commission and to include the information in their annual reports.
DB2015	<i>Mongolia</i>	Mongolia strengthened minority investor protections by introducing a requirement for public joint stock companies to publicly disclose related-party transactions within 2 business days.
DB2014	<i>Vietnam</i>	Vietnam strengthened investor protections by introducing greater disclosure requirements for publicly held companies in cases of related-party transactions.
DB2013	<i>Taiwan, China</i>	Taiwan, China, strengthened investor protections by increasing disclosure requirements for related-party transactions and improving the liability regime for company directors in cases where such transactions are abusive.
DB2013	<i>Mongolia</i>	Mongolia strengthened investor protections by increasing the disclosure requirements for related-party transactions.

DB year	Economy	Reform
DB2012	<i>Solomon Islands</i>	The Solomon Islands strengthened investor protections by increasing shareholder access to corporate information.
DB2012	<i>Vietnam</i>	Vietnam strengthened investor protections by requiring higher standards of accountability for company directors.
DB2010	<i>Indonesia</i>	Indonesia strengthened investor protections by increasing disclosure requirements for related-party transactions.

*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.

## PAYING TAXES

Taxes are essential. The level of tax rates needs to be carefully chosen—and needless complexity in tax rules avoided. Firms in economies that rank better on the ease of paying taxes in the *Doing Business* study tend to perceive both tax rates and tax administration as less of an obstacle to business according to the World Bank Enterprise Survey research.

### What do the indicators cover?

Using a case scenario, *Doing Business* records the taxes and mandatory contributions that a medium-size company must pay in a given year as well as measures of 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 of economies on the ease of paying taxes is determined by sorting their distance to frontier scores on the ease of paying taxes. These scores are the simple average of the distance to frontier scores for each of the component indicators, with a threshold and a nonlinear transformation applied to one of the component indicators, the total tax rate<sup>3</sup>. The financial statement variables have been updated to be proportional to 2012 income per capita; previously they were proportional to 2005 income per capita. To make the data comparable across economies, several assumptions are used.

- TaxpayerCo is a medium-size business that started operations on January 1, 2013.
- 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.

### WHAT THE PAYING TAXES INDICATORS MEASURE

#### Tax payments for a manufacturing company in 2014 (number per year adjusted for electronic and 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 are measured at all levels of government.
- 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.

<sup>3</sup> The nonlinear distance to frontier for the total tax rate is equal to the distance to frontier for the total tax rate to the power of 0.8. The threshold is defined as the total tax rate at the 15th percentile of the overall distribution for all years included in the analysis up to and including *Doing Business 2015*, which is 26.1%. All economies with a total tax rate below this threshold receive the same score as the economy at the threshold.

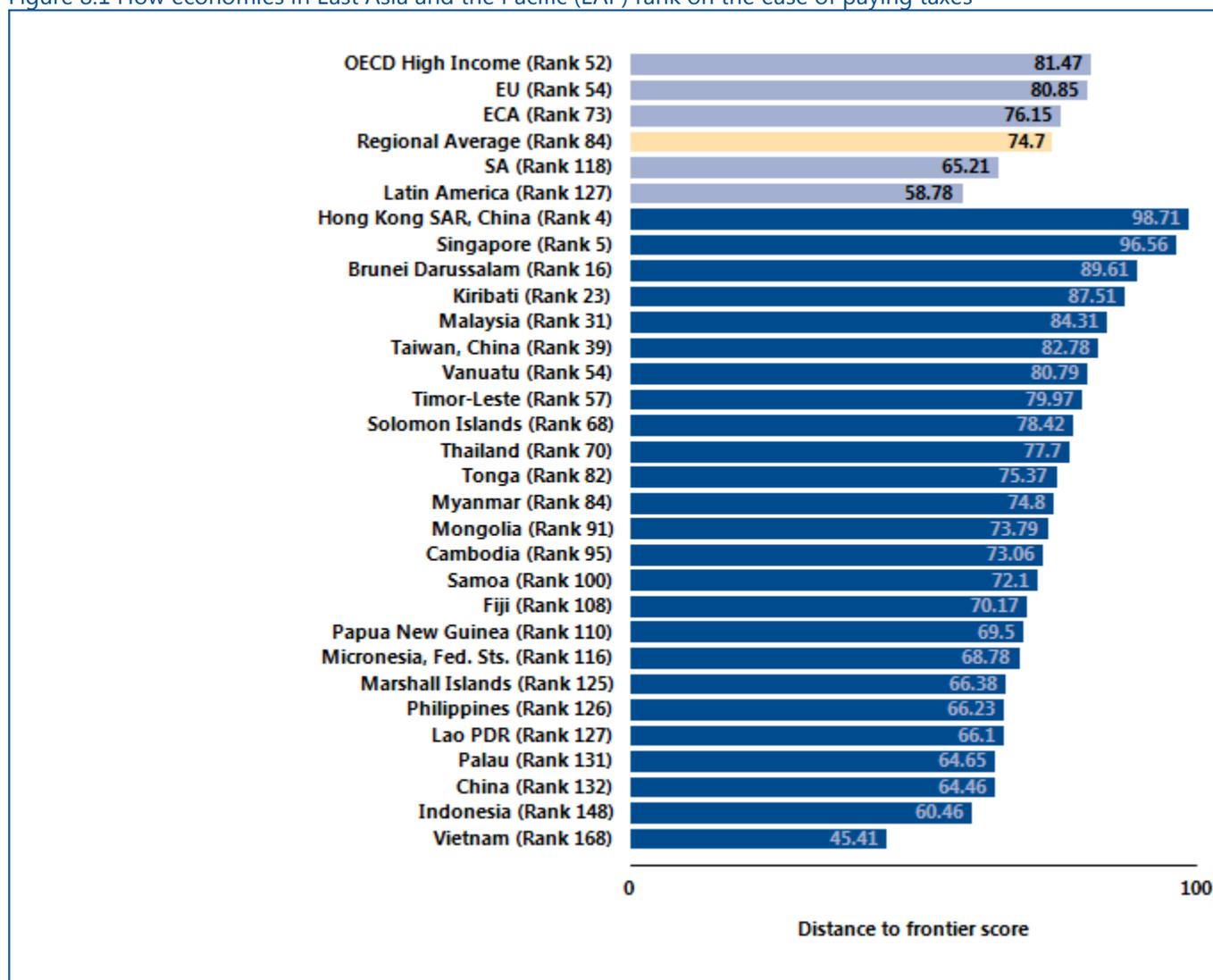
## PAYING TAXES

### Where do the region's economies stand today?

What is the administrative burden of complying with taxes in economies in East Asia and the Pacific (EAP)—and how much do firms pay in taxes? The global rankings of these economies on the ease of paying taxes

offer useful information for assessing the tax compliance burden for businesses (figure 8.1). The average ranking of the region provides a useful benchmark.

Figure 8.1 How economies in East Asia and the Pacific (EAP) rank on the ease of paying taxes



Note: All economies with a total tax rate below the threshold of 26.1% applied in DB2015, receive the same distance to frontier score for the total tax rate (a distance to frontier score of 100 for the total tax rate) for the purpose of calculating the ranking on the ease of paying taxes.

Source: *Doing Business* database.

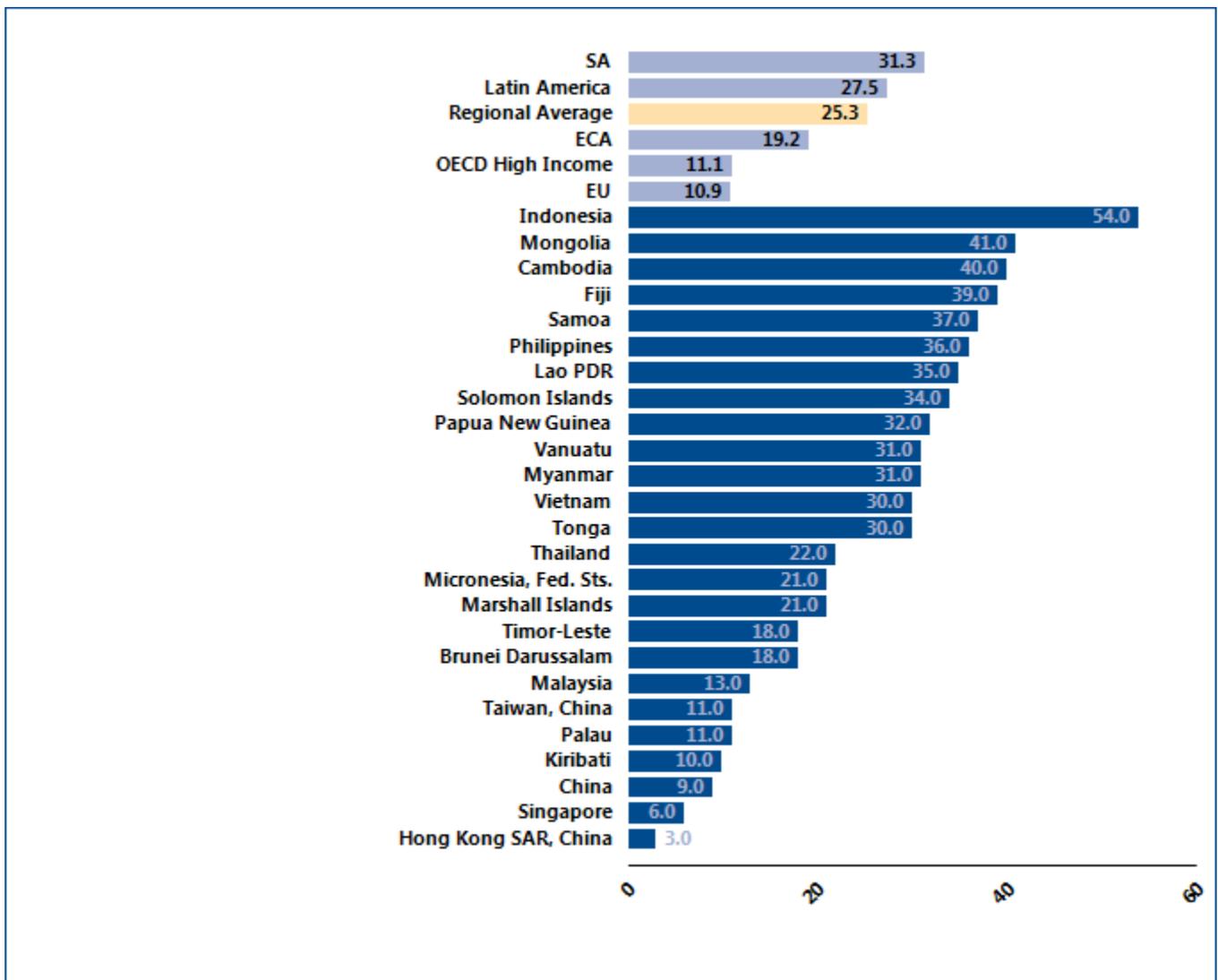
## PAYING TAXES

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show what it takes to comply with tax regulations in each economy in the region—the number of payments per year and the time required to prepare, and file and pay taxes the 3

major taxes (corporate income tax, VAT or sales tax and labor taxes and mandatory contributions)—as well as the total tax rate (figure 8.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

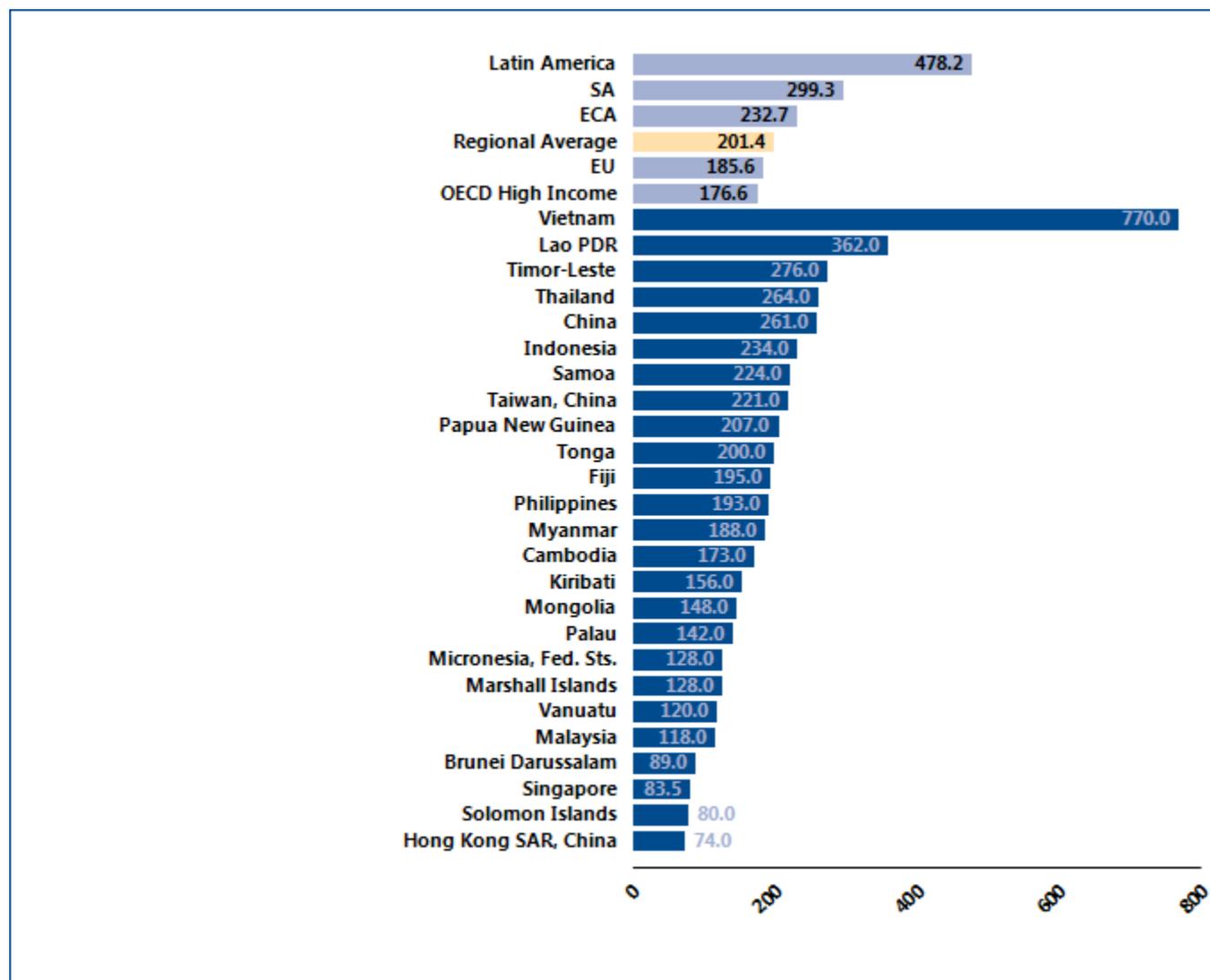
Figure 8.2 How easy is it to pay taxes in economies in East Asia and the Pacific (EAP)—and what are the total tax rates?

### Payments (number per year)



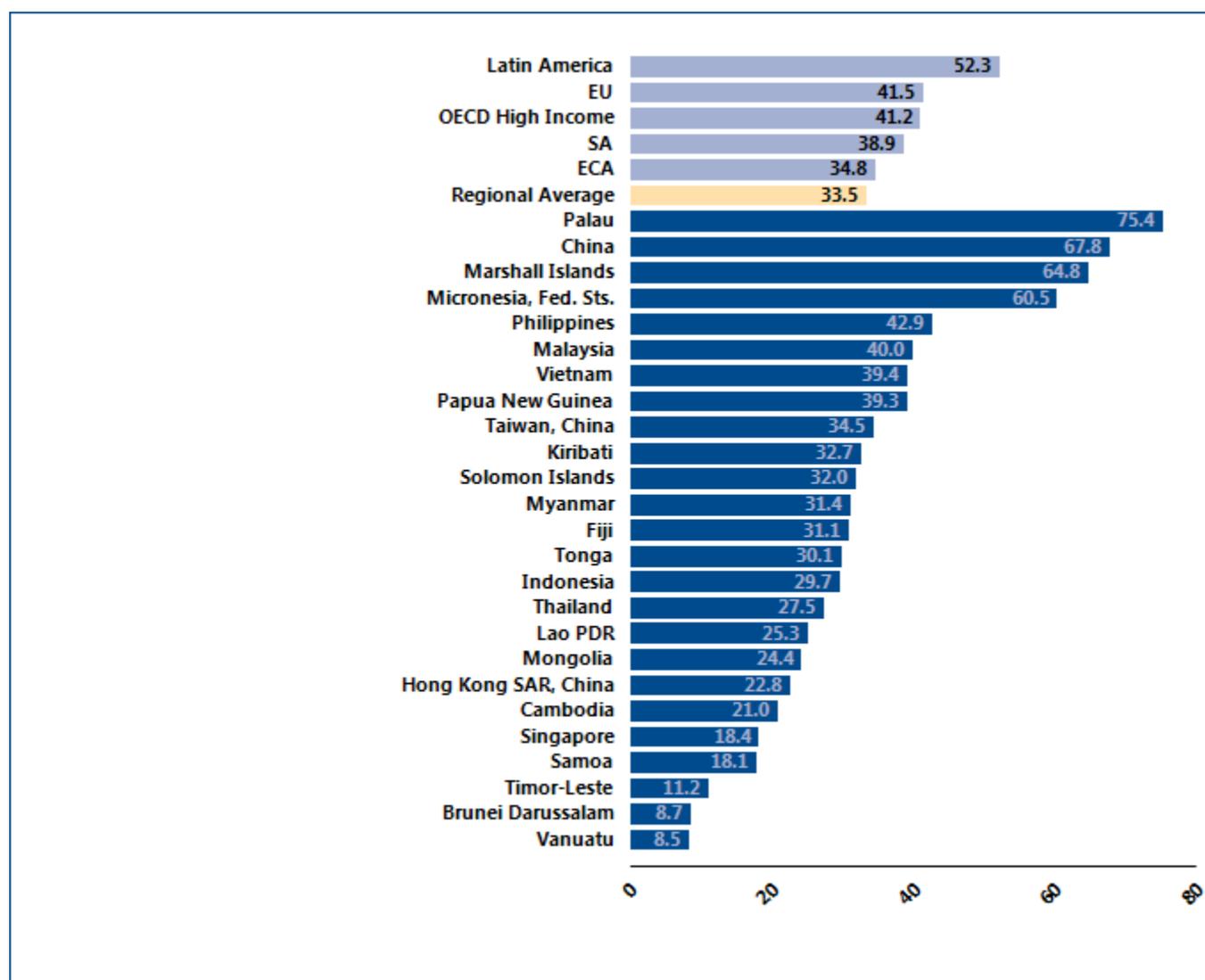
## PAYING TAXES

Time (hours per year)



## PAYING TAXES

## Total tax rate (% of profit)



Source: Doing Business database.

## PAYING TAXES

### What are the changes over time?

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 compliance with tax obligations and reducing rates have seen tax revenue rise. What tax reforms has *Doing Business* recorded in East Asia and the Pacific (EAP) (table 8.1)?

Table 8.1 How have economies in East Asia and the Pacific (EAP) made paying taxes easier—or not?  
By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Brunei Darussalam</i>	Brunei Darussalam made paying taxes easier and less costly for companies by merging contributions for the Employee Provident Fund and the Supplemental Pension Fund and increasing the capital allowance for industrial buildings. In addition, it reduced the corporate income tax rate, though it also abolished the partial exemption of income and introduced a flat rate.
DB2016	<i>China</i>	China made paying taxes less costly for companies in Shanghai by reducing the social security contribution rate.
DB2016	<i>Hong Kong SAR, China</i>	Hong Kong SAR, China, made paying taxes easier and less costly for companies by simplifying compliance with the mandatory provident fund obligations and increasing the allowance for profit tax. At the same time, it increased the maximum contribution to the mandatory provident fund and reduced the property tax waiver.
DB2016	<i>Indonesia</i>	Indonesia made paying taxes easier and less costly for companies by introducing an online system for paying social security contributions and by reducing both the rate paid by employers and the ceiling for the contributions. This reform applies to both Jakarta and Surabaya.
DB2016	<i>Myanmar</i>	Myanmar made paying taxes more costly and complicated for companies by increasing the rate paid by employers and ceiling for social security contributions, requiring additional documents for commercial tax returns and introducing quarterly preparation, filing and payment of corporate

DB year	Economy	Reform
		income tax. At the same time, Myanmar increased the rate of allowable depreciation.
<b>DB2016</b>	<i>Malaysia</i>	Malaysia made paying taxes easier and less costly for companies by making electronic filing mandatory and reducing the property tax rate. At the same time, it also increased the capital gains tax.
<b>DB2016</b>	<i>Tonga</i>	Tonga made paying taxes more complicated for companies by reintroducing the annual fee for a business license.
<b>DB2016</b>	<i>Vietnam</i>	Vietnam made paying taxes less costly for companies by reducing the corporate income tax rate—and made it easier by reducing the number of procedures and documents for filing VAT and social security contributions, reducing the number of filings for VAT and replacing quarterly filings of corporate income tax with quarterly advance payments. On the other hand, Vietnam increased the rate for social security contributions paid by employers.
<b>DB2015</b>	<i>Brunei Darussalam</i>	Brunei Darussalam made paying taxes easier for companies by allowing joint filing and payment of supplemental contributory pension and employee provident fund contributions and by introducing an online system for paying these 2 contributions.
<b>DB2015</b>	<i>China</i>	China made paying taxes easier for companies by enhancing the electronic system for filing and paying taxes and adopting new communication channels within its taxpayer service, changes applying to both Beijing and Shanghai. In addition, China made paying taxes less costly for companies in Shanghai by reducing the social security contribution rate.
<b>DB2015</b>	<i>Indonesia</i>	Indonesia made paying taxes less costly for companies by reducing employers' health insurance contribution rate. This reform applies to both Jakarta and Surabaya.
<b>DB2015</b>	<i>Kiribati</i>	Kiribati made paying taxes more complicated for companies by introducing VAT.
<b>DB2015</b>	<i>Mongolia</i>	Mongolia made paying taxes easier for companies by introducing an electronic system for filing corporate income tax, VAT and social security contributions.

DB year	Economy	Reform
DB2015	<i>Taiwan, China</i>	Taiwan, China, made paying taxes easier for companies by introducing an electronic system for paying the vehicle license tax.
DB2015	<i>Vietnam</i>	Vietnam made paying taxes less costly for companies by reducing the corporate income tax rate.
DB2014	<i>Fiji</i>	Fiji made paying taxes more complicated for companies by transferring the fringe benefit tax liability from employees to employers and by limiting the deductibility of mandatory contributions.
DB2014	<i>Lao PDR</i>	Lao PDR made paying taxes less costly for companies by reducing the corporate income tax rate—though it also introduced a new property transfer tax.
DB2014	<i>Myanmar</i>	Myanmar made paying taxes less costly for companies by reducing the corporate income tax rate.
DB2014	<i>Philippines</i>	The Philippines made paying taxes easier for companies by introducing an electronic filing and payment system for social security contributions.
DB2014	<i>Thailand</i>	Thailand made paying taxes less costly for companies by reducing employers' social security contribution rate.
DB2014	<i>Tonga</i>	Tonga made paying taxes more complicated for companies by introducing a superannuation levy—though it also abolished the business license for 2013.
DB2014	<i>Vietnam</i>	Vietnam made paying taxes more costly for companies by increasing employers' social security contribution rate.
DB2013	<i>Cambodia</i>	Cambodia introduced a new tax on immovable property.
DB2013	<i>Brunei Darussalam</i>	Brunei Darussalam made paying taxes less costly for companies by reducing the profit tax rate.
DB2013	<i>Fiji</i>	Fiji made paying taxes less costly for companies by reducing the profit tax rate. At the same time, Fiji introduced capital gains tax.
DB2013	<i>Lao PDR</i>	Lao PDR made paying taxes less costly for companies by

DB year	Economy	Reform
		reducing the corporate income tax rate.
<b>DB2013</b>	<i>Thailand</i>	Thailand made paying taxes less costly for companies by reducing the profit tax rate.
<b>DB2012</b>	<i>Malaysia</i>	Malaysia made paying taxes costlier for firms by reintroducing the real estate capital gains tax—but also made tax compliance easier by improving electronic systems and the availability of software.
<b>DB2011</b>	<i>Brunei Darussalam</i>	Brunei Darussalam reduced the corporate income tax rate from 23.5% to 22% while also introducing a lower tax rate for small businesses, ranging from 5.5% to 11%.
<b>DB2011</b>	<i>Lao PDR</i>	Lao PDR replaced the business turnover tax with a new value added tax.
<b>DB2011</b>	<i>Indonesia</i>	Indonesia reduced its corporate income tax rate.
<b>DB2011</b>	<i>Taiwan, China</i>	Taiwan (China) reduced the corporate income tax rate and simplified tax return forms, rules for assessing corporate income tax and the calculation of interim tax payments.
<b>DB2011</b>	<i>China</i>	China's new corporate income tax law unified the tax regimes for domestic and foreign enterprises and clarified the calculation of taxable income for corporate income tax purposes.
<b>DB2011</b>	<i>Hong Kong SAR, China</i>	Hong Kong SAR (China) abolished the fuel tax on diesel.
<b>DB2011</b>	<i>Tonga</i>	Tonga simplified the payment of taxes by replacing a 2-tier system with a 25% corporate income tax rate for both domestic and foreign companies and introducing tax incentives with a broad-based capital allowance system to replace tax holidays and other tax concessions.
<b>DB2011</b>	<i>Vietnam</i>	The government of Vietnam eased paying taxes by reducing corporate income tax rate.
<b>DB2011</b>	<i>Thailand</i>	Thailand temporarily lowered taxes on business by reducing its specific business tax for 12 months.
<b>DB2010</b>	<i>Timor-Leste</i>	Timor-Leste made paying taxes less costly for companies by reducing the corporate income tax rate and eliminating the

DB year	Economy	Reform
		alternative minimum tax and the withholding tax on interest.
<b>DB2010</b>	<i>Vietnam</i>	Vietnam made paying taxes less costly for companies by reducing the corporate income and value added tax rates and eliminating the surtax on income from the transfer of land use rights.
<b>DB2010</b>	<i>Tonga</i>	Tonga made paying taxes easier and less costly for companies through a new income tax law introducing self-assessment as well as accelerated depreciation and amortization for certain assets.
<b>DB2010</b>	<i>Taiwan, China</i>	Taiwan, China, made paying taxes easier for companies by extending electronic filing and payment to value added tax.
<b>DB2010</b>	<i>Fiji</i>	Fiji made paying taxes less costly for companies by reducing the corporate income tax rate—though it also imposed a road user levy on all vehicles.
<b>DB2010</b>	<i>Cambodia</i>	Cambodia made paying taxes more costly for companies by introducing a social security contribution based on employees' average monthly wage.
<b>DB2010</b>	<i>Lao PDR</i>	Lao PDR made paying taxes easier for companies by consolidating several taxes into one improved form and improving the lodgment process and staffing at the tax office.
<b>DB2010</b>	<i>Indonesia</i>	Indonesia made paying taxes less costly for companies by reducing the top corporate income tax rate.
<b>DB2010</b>	<i>Philippines</i>	The Philippines made paying taxes less costly for companies by reducing the corporate income tax rate.
<b>DB2010</b>	<i>Brunei Darussalam</i>	Brunei Darussalam made paying taxes less costly for companies by reducing the corporate income tax rate.

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

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.

**What do the indicators cover?**

*Doing Business* records the time and cost associated with the logistical process of exporting and importing goods. Under the new methodology introduced this year, *Doing Business* measures the time and cost (excluding tariffs) associated with three sets of procedures—documentary compliance, border compliance and domestic transport—within the overall process of exporting or importing a shipment of goods. The ranking of economies on the ease of trading across borders is determined by sorting their distance to frontier scores for trading across borders. These scores are the simple average of the distance to frontier scores for the time and cost for documentary compliance and border compliance to export and import.

To make the data comparable across economies, a few assumptions are made about the traded goods and the transactions:

### Time

- Time is measured in hours, and 1 day is 24 hours (for example, 22 days are recorded as  $22 \times 24 = 528$  hours). If customs clearance takes 7.5 hours, the data are recorded as is. Alternatively, suppose that documents are submitted to a customs agency at 8:00 a.m., are processed overnight and can be picked up at 8:00 a.m. the next day. In this case the time for customs clearance would be recorded as 24 hours because the actual procedure took 24 hours.

### WHAT THE TRADING ACROSS BORDERS

#### INDICATORS MEASURE FOR IMPORT & EXPORT

#### Documentary compliance – cost (US\$) & time (hours)

Obtain, prepare and submit documents:

- During transport, clearance, inspections and port or border handling in origin economy
- Required by origin, transit and destination economies

Covers all documents by law and in practice

#### Border compliance – cost (US\$) & time (hours)

Customs clearance and inspections

Inspections by other agencies

Port or border handling

Obtaining, preparing and submitting documents during clearance, inspections and port or border handling

#### Domestic transport\*

Loading and unloading of shipment

Transport between warehouse and terminal/port

Transport between terminal/port and border

Obtaining, preparing and submitting documents during domestic transport

Traffic delays and road police checks while shipment is en route

\* Although *Doing Business* collects and publishes data on the time and cost for domestic transport, it does not use these data in calculating the distance to frontier score for trading across borders or the ranking on the ease of trading across borders.

### Cost

- Insurance cost and informal payments for which no receipt is issued are excluded from the costs recorded. Costs are reported in U.S. dollars. Contributors are asked to convert local currency into U.S. dollars based on the exchange rate prevailing on the day they answer the questionnaire.

### Assumptions of the case study

- For each of the 189 economies covered by *Doing Business*, it is assumed that a shipment travels from a warehouse in the largest business city of the exporting economy to a warehouse in the largest business city of the importing economy. For 11 economies the data are also collected, under the same case study assumptions, for the second largest business city.
- The import and export case studies assume different traded products. It is assumed that each economy imports a standardized shipment of 15 metric tons of containerized auto parts (HS 8708) from its natural import partner—the economy from which it imports the largest value (price times quantity) of auto parts. It is assumed that each economy exports the product of its comparative advantage (defined by the largest export value) to its natural export partner—the economy that is the largest purchaser of this product. Precious metal and gems, live animals and pharmaceuticals are excluded from the list of possible export products, however, and the second largest product category is considered as needed.
- To identify the trading partners and export product for each economy, *Doing Business* collected data on trade flows for the most recent four-year period from international databases such as the United Nations Commodity Trade Statistics Database (UN Comtrade). For economies for which trade flow data were not available, data from ancillary government sources (various ministries and departments) and World Bank Group country offices were used to identify the export product and natural trading partners.
- A shipment is a unit of trade. Export shipments do not necessarily need to be containerized, while import shipments of auto parts are assumed to be containerized.
- Shipping cost based on weight is assumed to be greater than shipping cost based on volume.
- If government fees are determined by the value of the shipment, the value is assumed to be \$50,000.
- The product is new, not secondhand or used merchandise.
- The exporting firm is responsible for hiring and paying for a freight forwarder or customs broker (or both) and pays for all costs related to international shipping, domestic transport, clearance and mandatory inspections by customs and other government agencies, port or border handling, documentary compliance fees and the like for exports. The importing firm is responsible for the above costs for imports.
- The mode of transport is the one most widely used for the chosen export or import product and the trading partner, as is the seaport, airport or land border crossing.
- All electronic submissions of information requested by any government agency in connection with the shipment are considered to be documents obtained, prepared and submitted during the export or import process.
- A port or border is defined as a place (seaport, airport or land border crossing) where merchandise can enter or leave an economy.
- Government agencies considered relevant are agencies such as customs, port authorities, road police, border guards, standardization agencies, ministries or departments of agriculture or industry, national security agencies and any other government authorities.

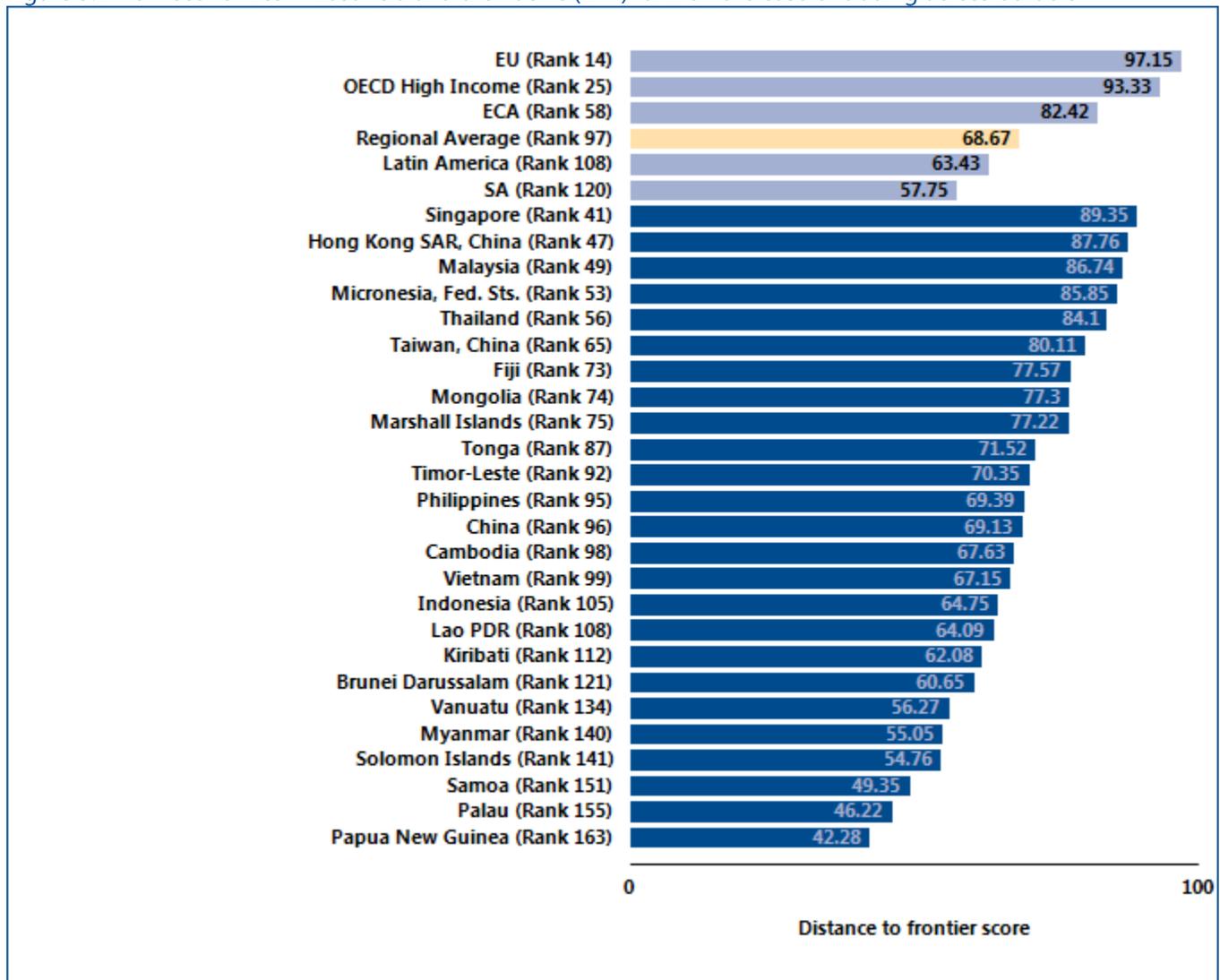
## TRADING ACROSS BORDERS

### Where do the region's economies stand today?

How easy it is for businesses in economies in East Asia and the Pacific (EAP) to export and import goods? The global rankings of these economies on the ease of

trading across borders suggest an answer (figure 9.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 9.1 How economies in East Asia and the Pacific (EAP) rank on the ease of trading across borders



Source: Doing Business database.

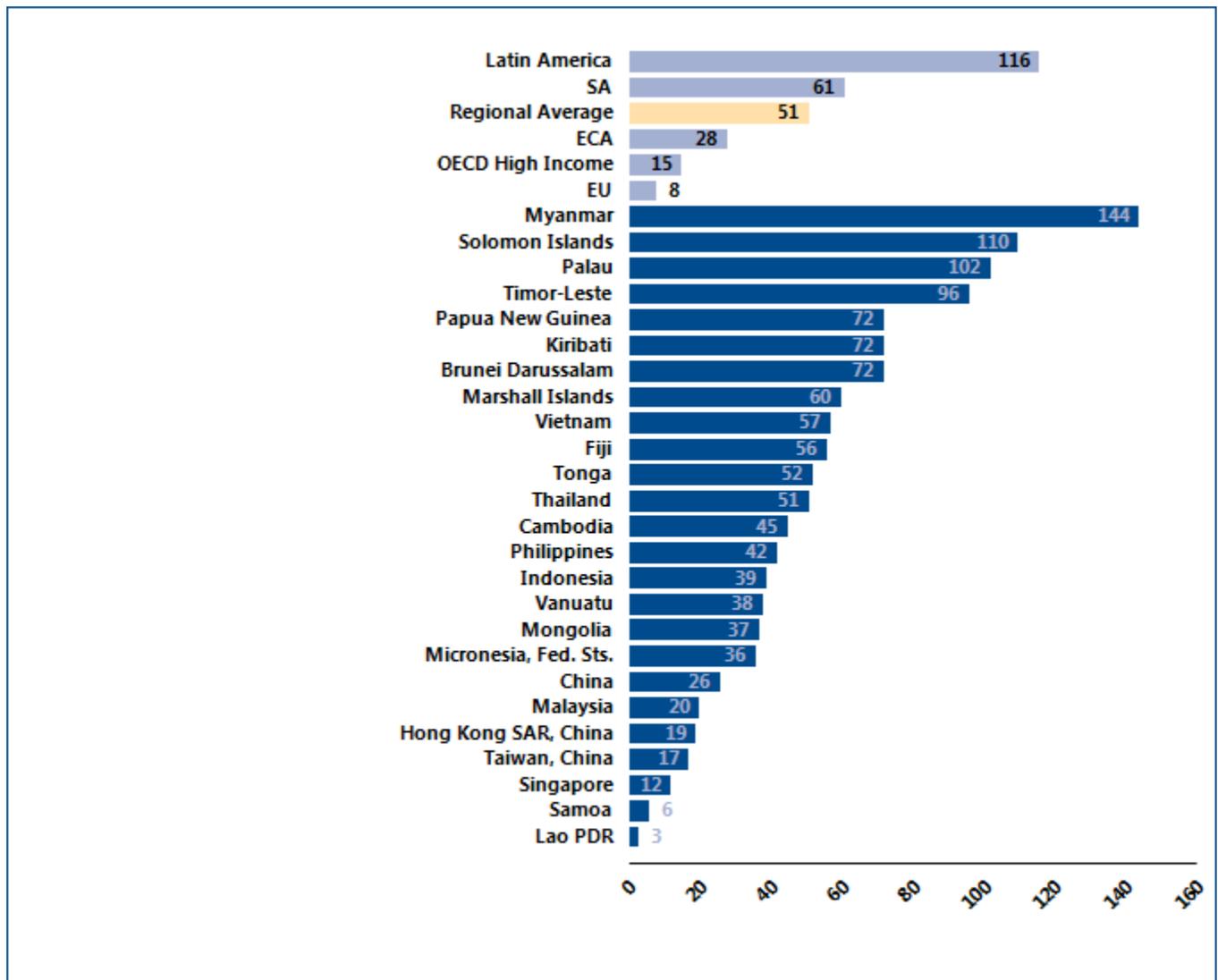
### TRADING ACROSS BORDERS

The indicators reported here are for trading a shipment of goods by the most widely used mode of transport (whether sea, land, air or some combination of these). The information on the time and cost to complete export

and import is collected from local freight forwarders, customs brokers and traders. Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

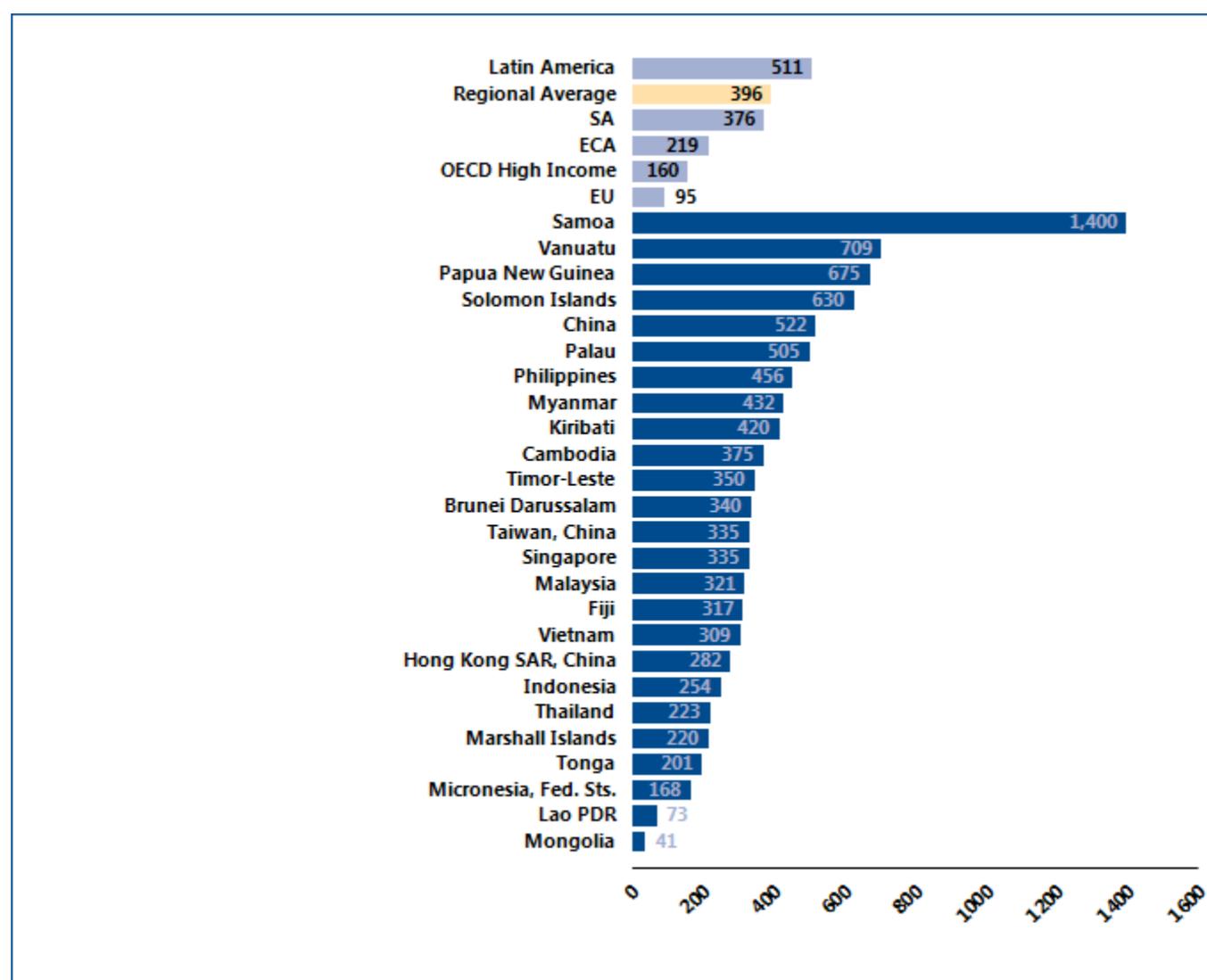
Figure 9.2 What it takes to trade across borders in economies in East Asia and the Pacific (EAP)

**Time to export: Border compliance (hours)**



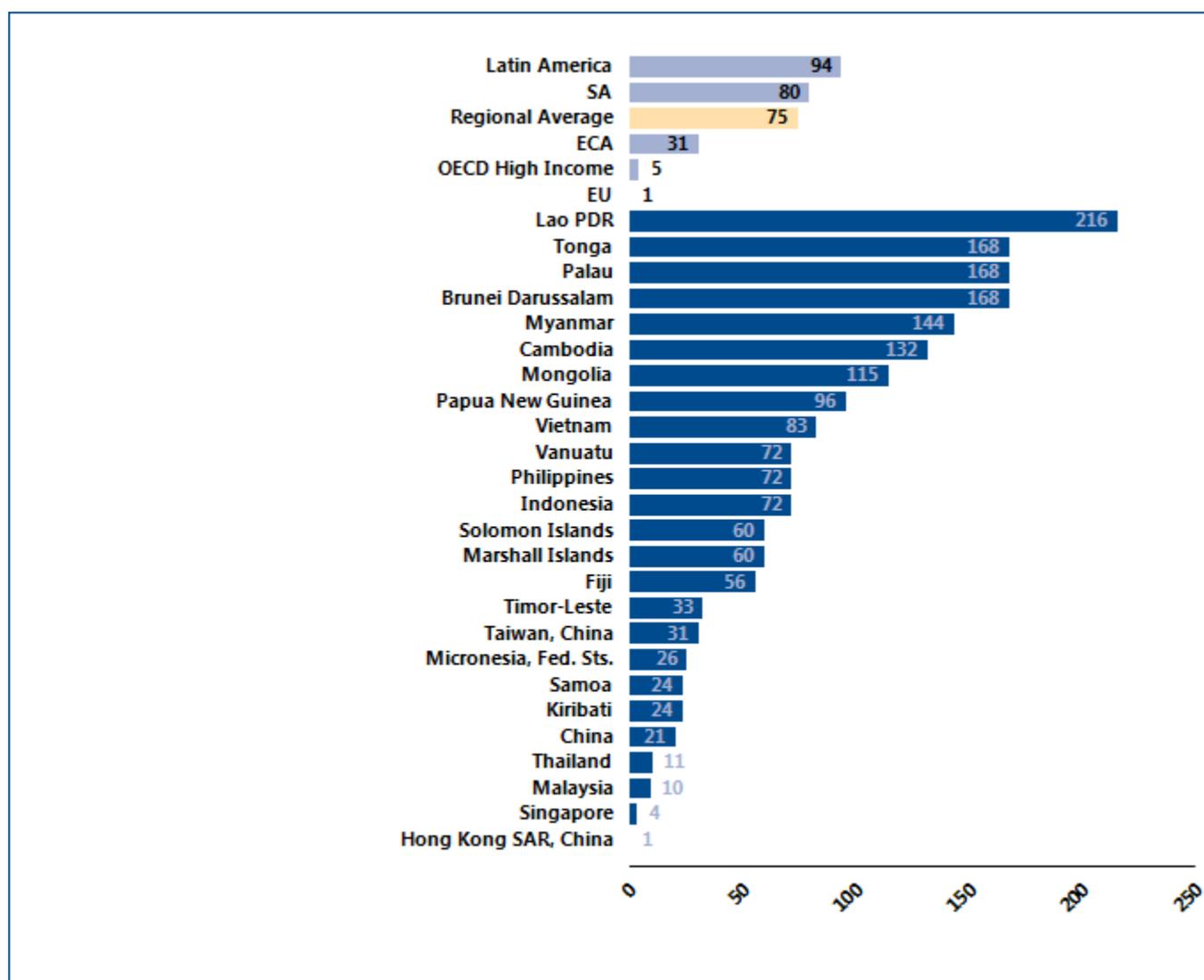
## TRADING ACROSS BORDERS

## Cost to export: Border compliance (USD)



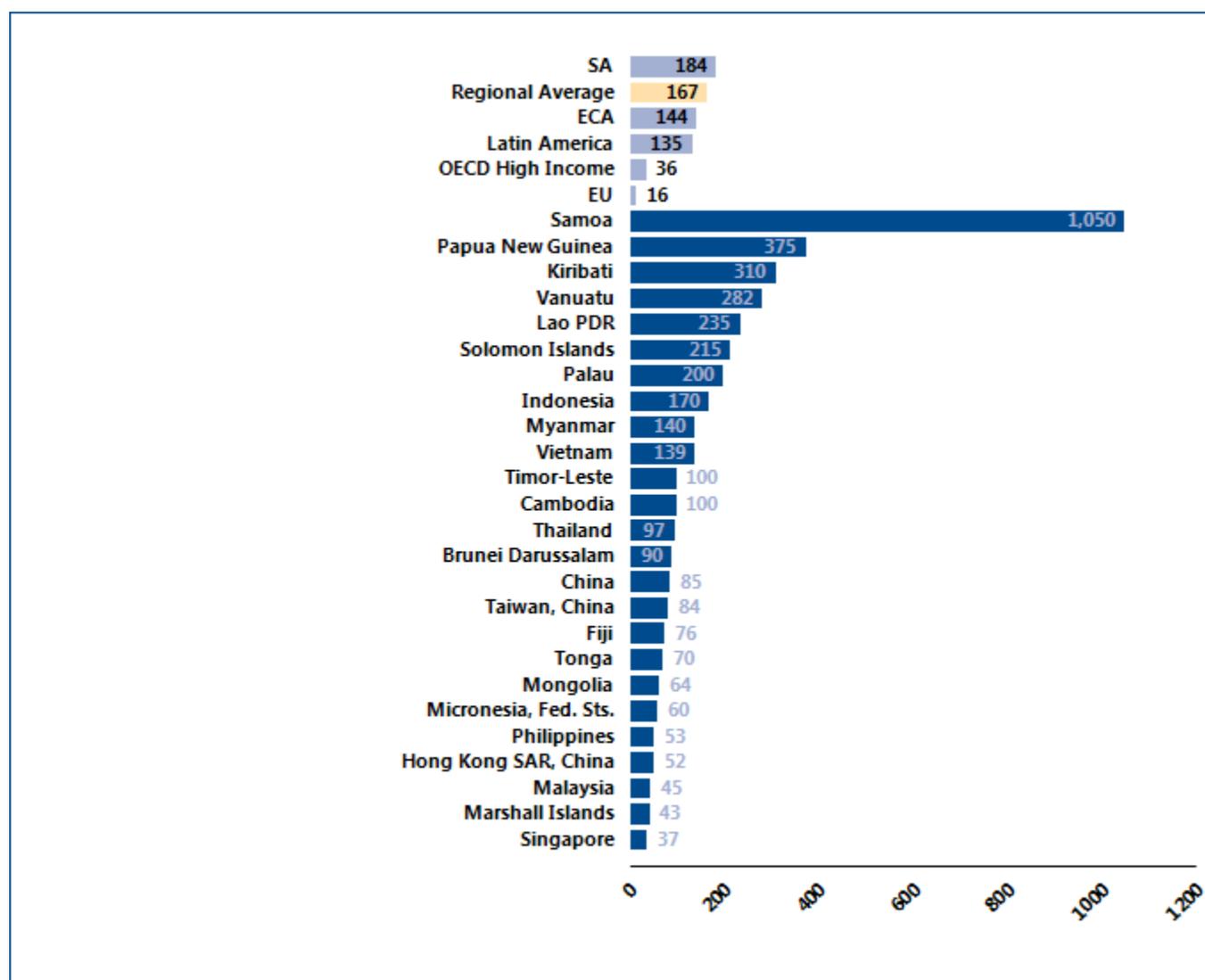
## TRADING ACROSS BORDERS

## Time to export: Documentary compliance (hours)



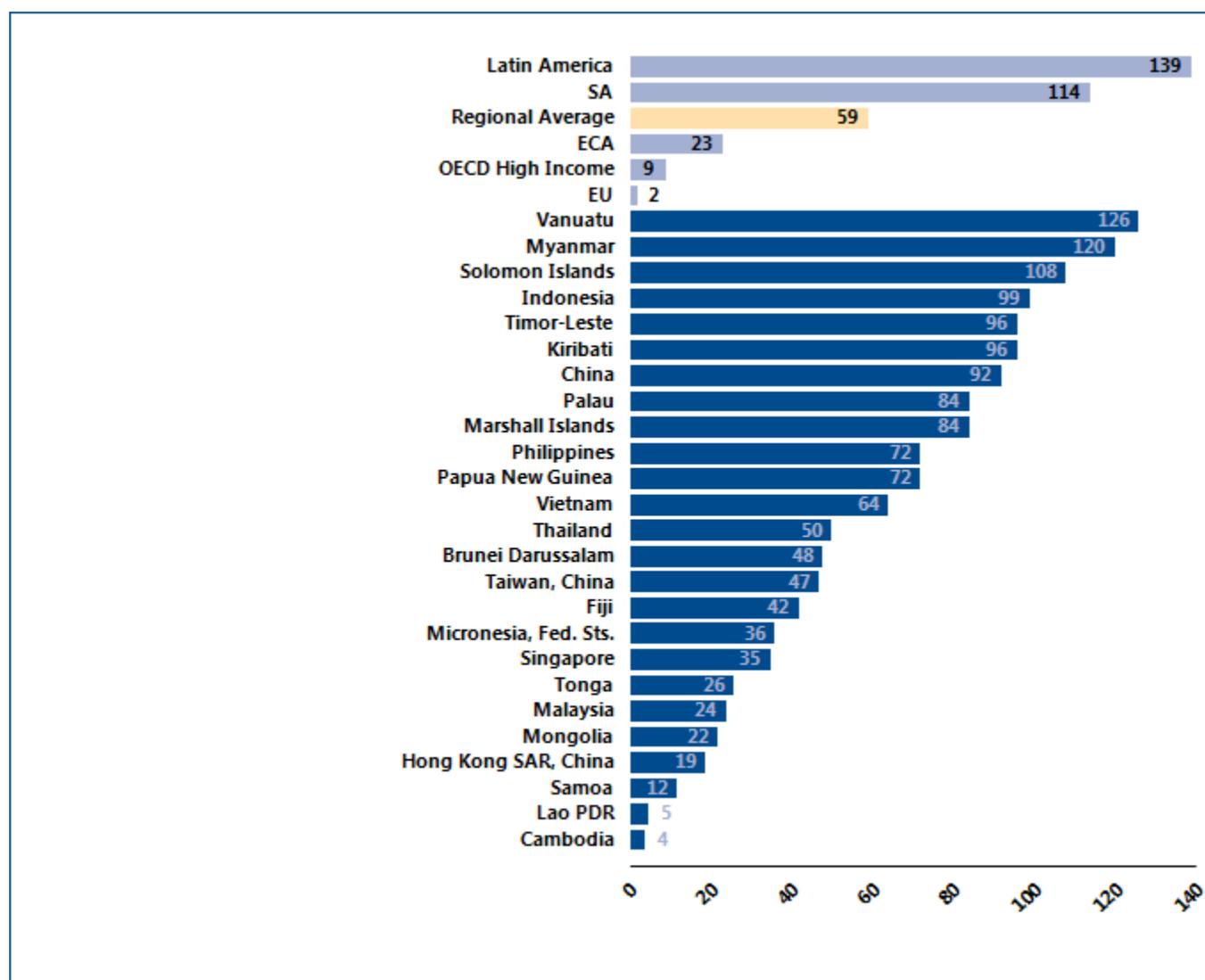
TRADING ACROSS BORDERS

Cost to export: Documentary compliance (USD)



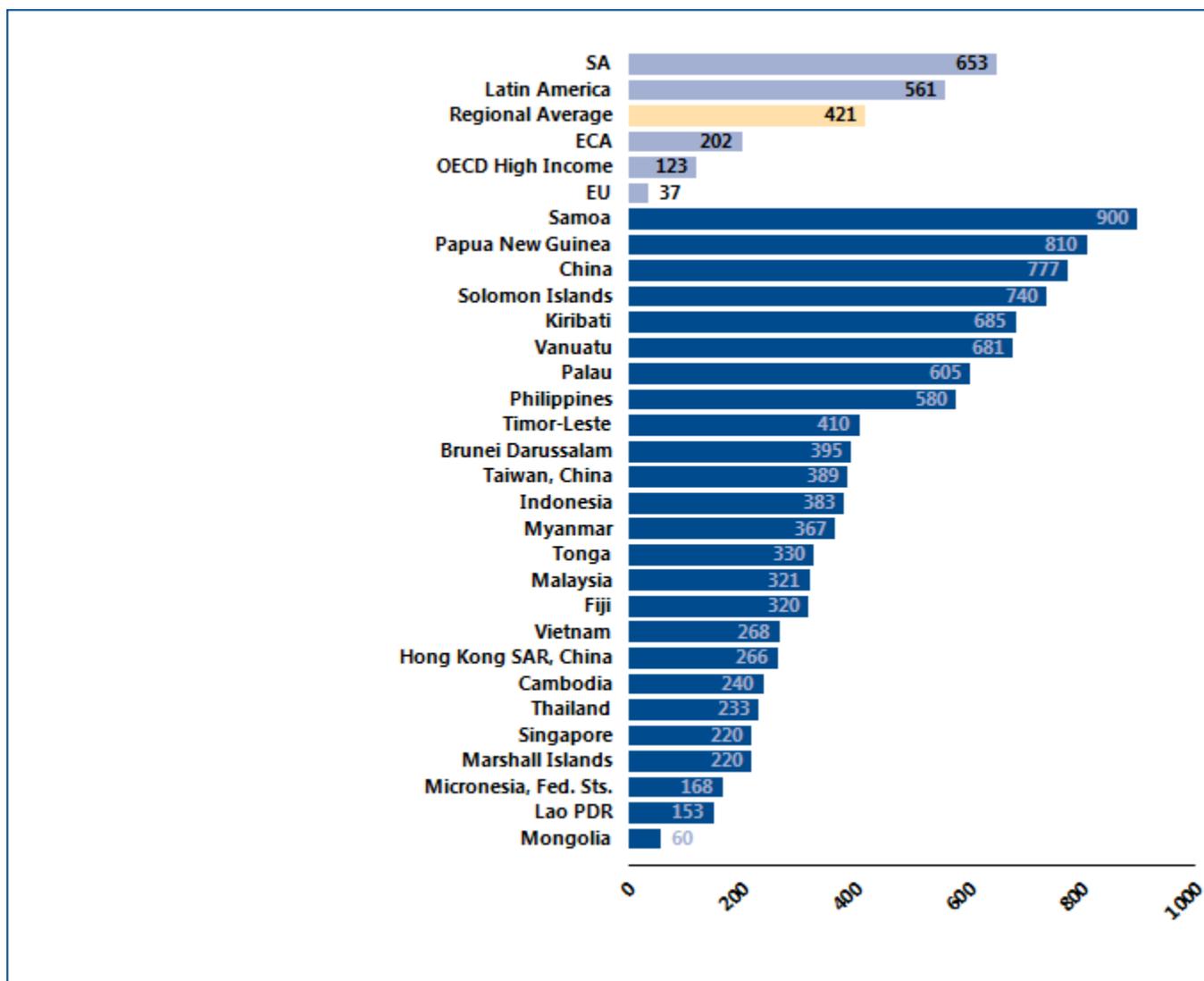
TRADING ACROSS BORDERS

Time to import: Border compliance (hours)



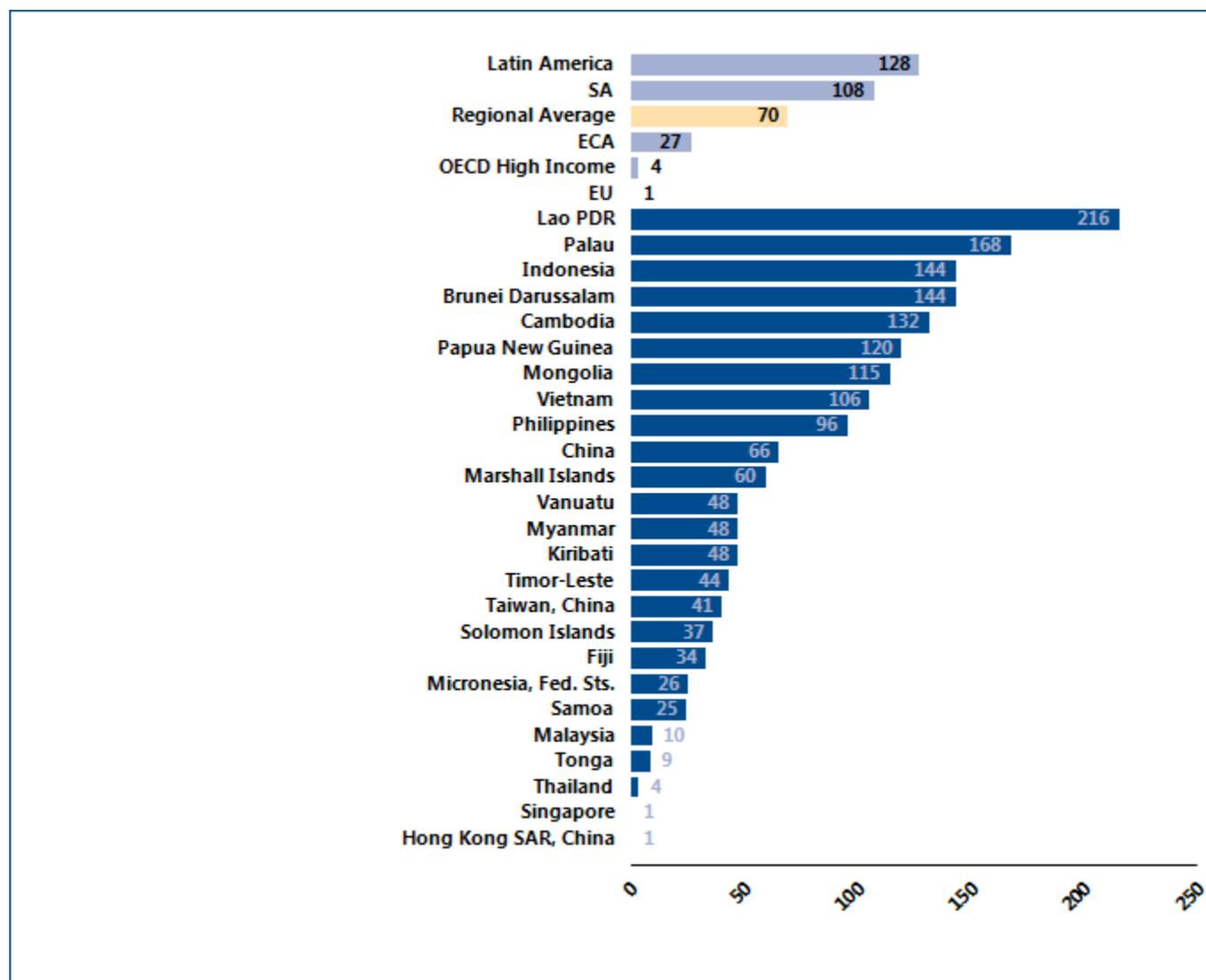
TRADING ACROSS BORDERS

Cost to import: Border compliance (USD)



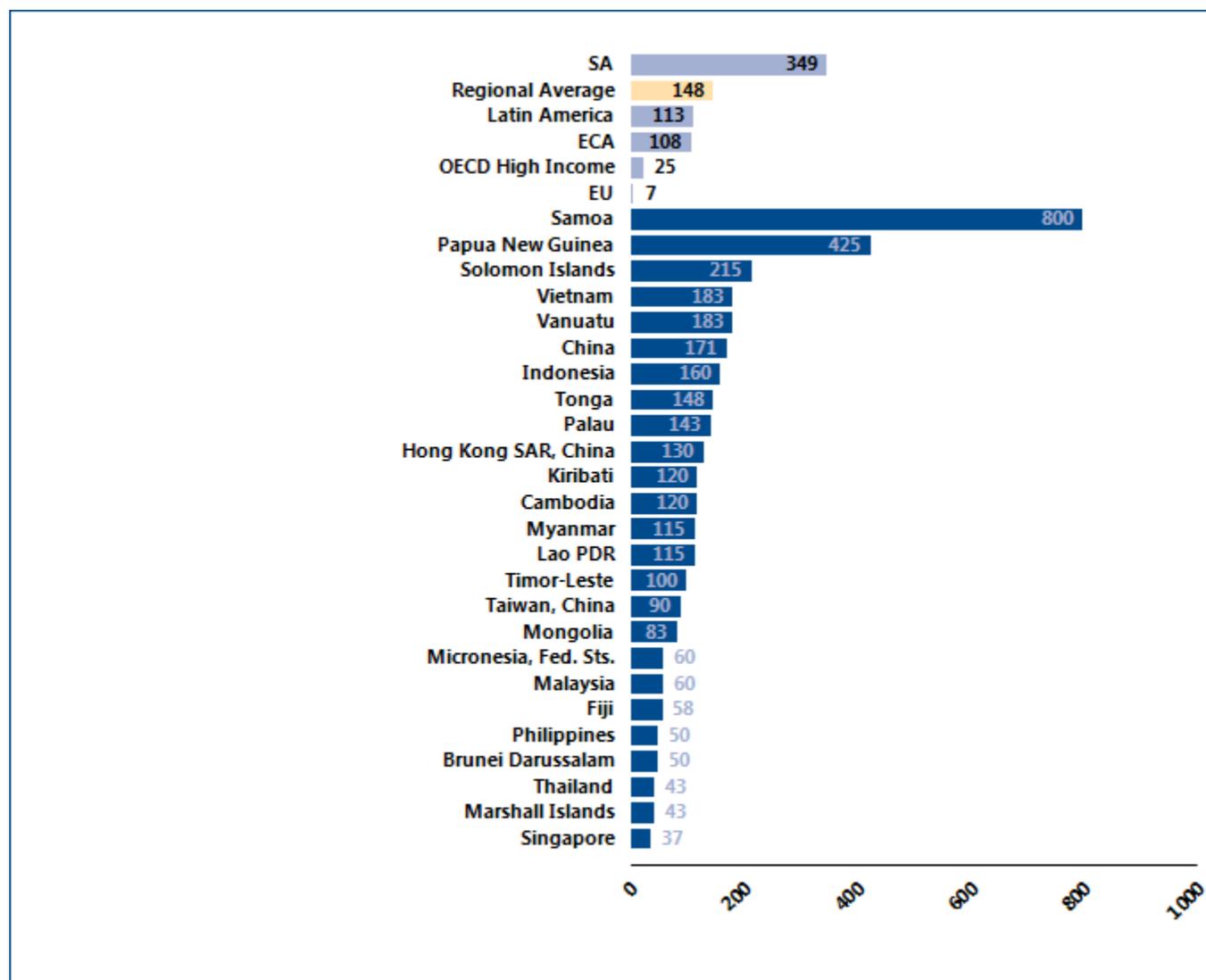
## TRADING ACROSS BORDERS

## Time to import: Documentary compliance (hours)



## TRADING ACROSS BORDERS

## Cost to import: Documentary compliance (USD)



Source: Doing Business database.

## TRADING ACROSS BORDERS

### What are the changes over time?

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 their trading environment and boost firms' international competitiveness. What trade reforms has *Doing Business* recorded in East Asia and the Pacific (EAP) (table 9.1)?

Table 9.1 How have economies in East Asia and the Pacific (EAP) made trading across borders easier—or not? By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	<i>Vanuatu</i>	Vanuatu reduced the border compliance time for importing by improving infrastructure at the port of Vila.
DB2015	<i>Indonesia</i>	In Indonesia trading across borders became more difficult because of insufficient infrastructure at the Tanjung Priok Port Jakarta. This change applies to both Jakarta and Surabaya.
DB2015	<i>Myanmar</i>	Myanmar made trading across borders easier by reducing the number of documents required for exports and imports.
DB2015	<i>Philippines</i>	In the Philippines trading across borders became more difficult because of a new city ordinance restricting truck traffic in Manila.
DB2015	<i>Palau</i>	Palau made trading across borders easier by improving the system for calculating customs duties and thereby reducing customs clearance time.
DB2013	<i>Lao PDR</i>	Lao PDR reduced the time to export and import by implementing the ASYCUDA electronic data interchange system at the Thanaleng–Friendship Bridge border crossing.
DB2012	<i>Vanuatu</i>	Vanuatu made trading across borders faster by upgrading Port-Vila's wharf infrastructure, which increased the efficiency of port and terminal handling activities.
DB2011	<i>Philippines</i>	The Philippines reduced the time and cost to trade by improving its electronic customs systems, adding such functions as electronic payments and online submission of

DB year	Economy	Reform
		declarations.
<b>DB2011</b>	<i>Fiji</i>	Fiji made trading easier by opening customer care service centers and improving customs operations.
<b>DB2011</b>	<i>Indonesia</i>	Indonesia reduced the time to export by launching a single-window service.
<b>DB2011</b>	<i>Brunei Darussalam</i>	The introduction of an electronic customs system in Brunei Darussalam made trading easier.
<b>DB2011</b>	<i>Cambodia</i>	Cambodia eliminated preshipment inspections, reducing the time and number of documents required for importing and exporting.
<b>DB2010</b>	<i>China</i>	China made trading across borders easier by relaxing trade credit restrictions.
<b>DB2010</b>	<i>Vietnam</i>	Vietnam reduced the time for exporting and importing by implementing World Trade Organization rules for customs administration; increasing competition in the logistics industry also helped reduce delays.

*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

Effective commercial dispute resolution has many benefits. Courts are essential for entrepreneurs because they interpret the rules of the market and protect economic rights. Efficient and transparent courts encourage new business relationships because businesses know they can rely on the courts if a new customer fails to pay. Speedy trials are essential for small enterprises, which may lack the resources to stay in business while awaiting the outcome of a long court dispute.

What do the indicators cover?

*Doing Business* measures the time and cost for resolving a standardized commercial dispute through a local first-instance court. In addition, this year it introduces a new measure, the quality of judicial processes index, evaluating whether each economy has adopted a series of good practices that promote quality and efficiency in the court system. This new index replaces the indicator on procedures, which was eliminated this year. The ranking of economies on the ease of enforcing contracts is determined by sorting their distance to frontier scores. These scores are the simple average of the distance to frontier scores for each of the component indicators

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 dispute concerns a lawful transaction between two businesses (Seller and Buyer), both located in the economy's largest business city. For 11 economies the data are also collected for the second largest business city.
- The buyer orders custom-made goods, then fails to pay.

### WHAT THE ENFORCING CONTRACTS

#### INDICATORS MEASURE

##### Time required to enforce a contract through the courts (calendar days)

- Time to file and serve the case
- Time for trial and to obtain the judgment
- Time to enforce the judgment

##### Cost required to enforce a contract through the courts (% of claim)

- Attorney fees
- Court fees
- Enforcement fees

##### Quality of judicial processes index (0-18)

- Court structure and proceedings (0-5)
- Case management (0-6)
- Court automation (0-4)
- Alternative dispute resolution (0-3)

- The value of the dispute is 200% of the income per capita or the equivalent in local currency of USD 5,000, whichever is greater.
- The seller sues the buyer before the court with jurisdiction over commercial cases worth 200% of income per capita or \$5,000.
- The seller requests a pretrial attachment to secure the claim.
- 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.

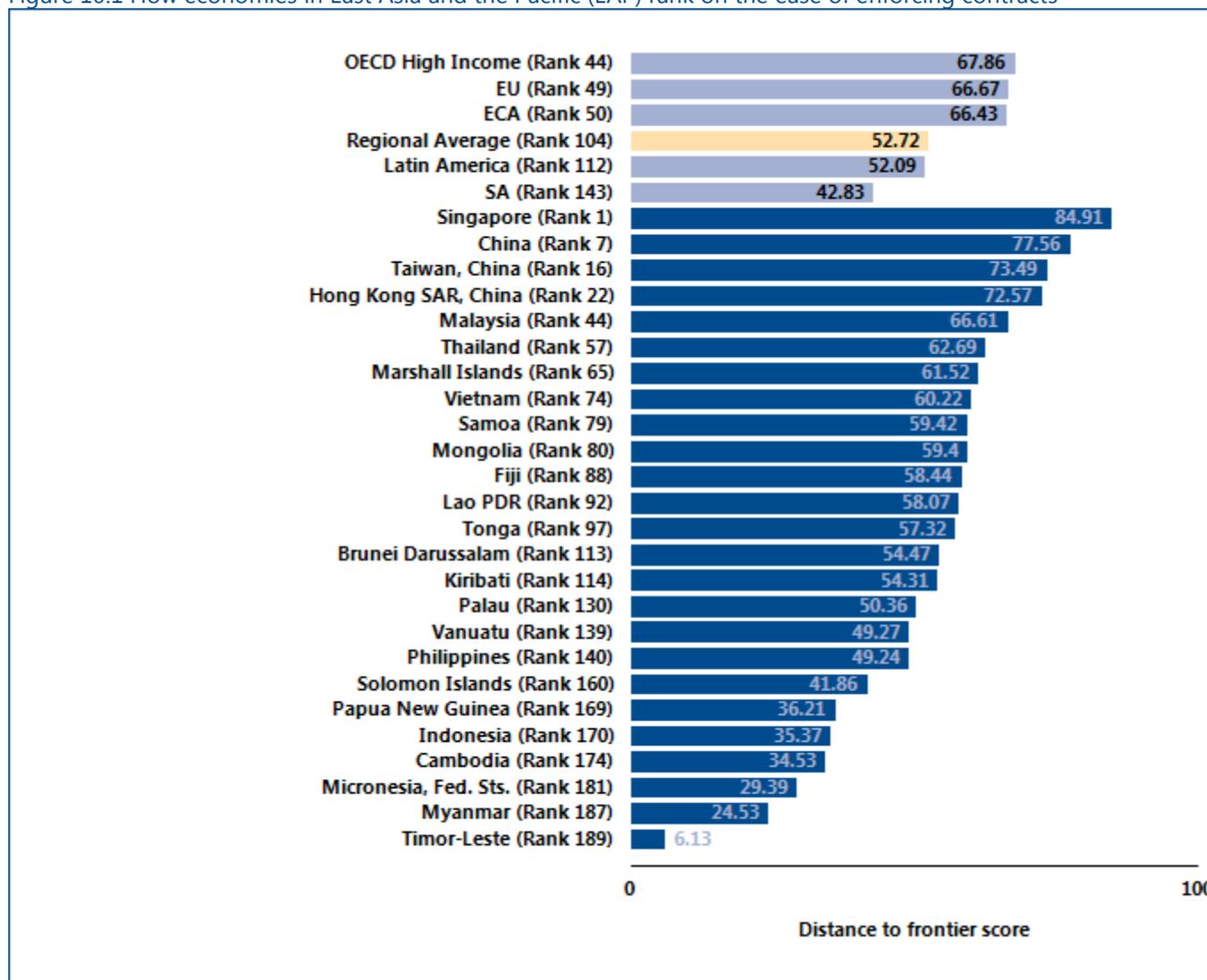
## ENFORCING CONTRACTS

### Where do the region's economies stand today?

How efficient is the process of resolving a commercial dispute through the courts in economies in East Asia and the Pacific (EAP)? The global rankings of these

economies on the ease of enforcing contracts suggest an answer (figure 10.1). The average ranking of the region and comparator regions provide a useful benchmark.

Figure 10.1 How economies in East Asia and the Pacific (EAP) rank on the ease of enforcing contracts



Source: Doing Business database.

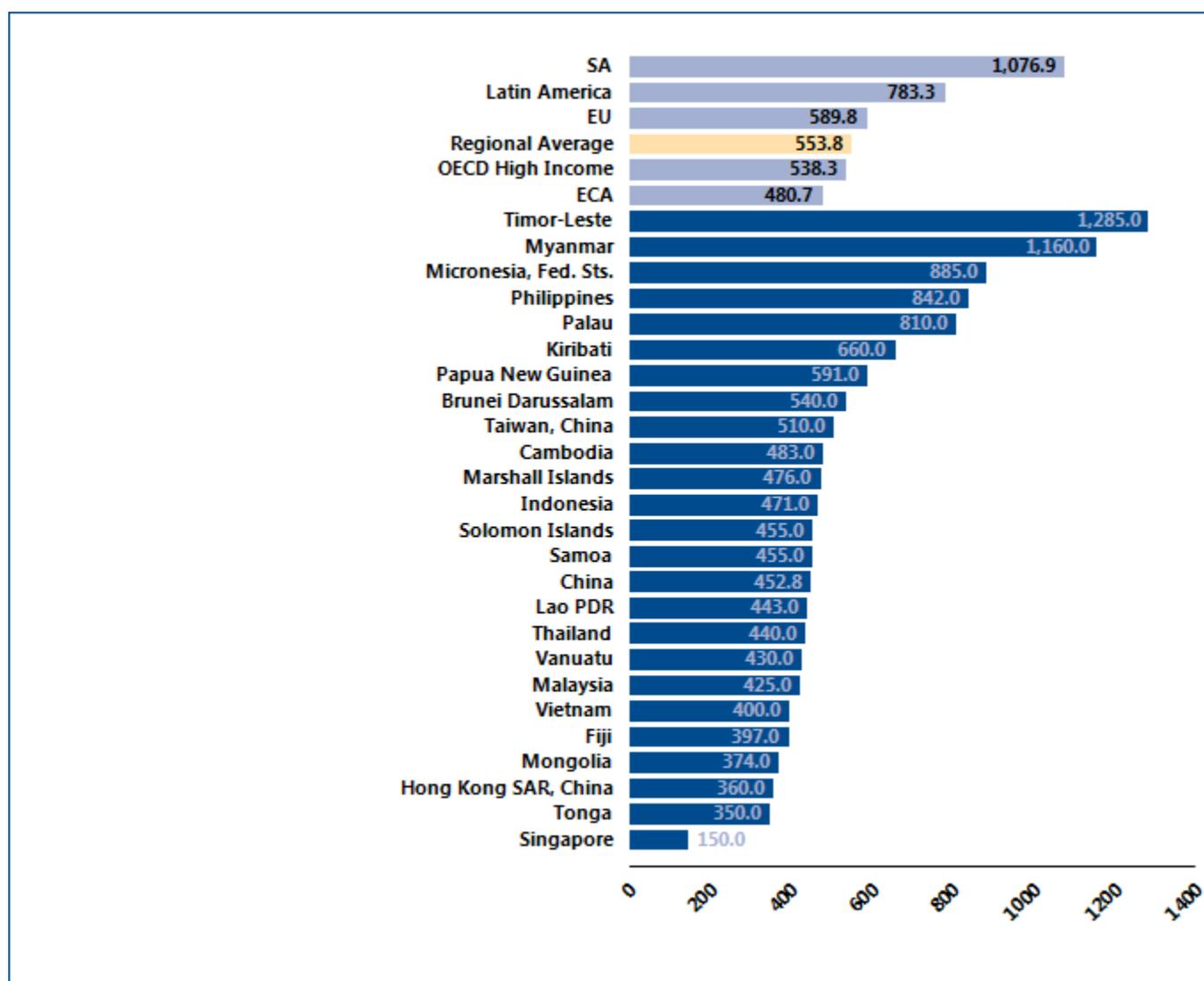
## ENFORCING CONTRACTS

The indicators underlying the rankings may also be revealing. Data collected by *Doing Business* show what it takes to enforce a contract through the courts in each economy in the region: the time, the cost and quality of

judicial processes index (figure 10.2). Comparing these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

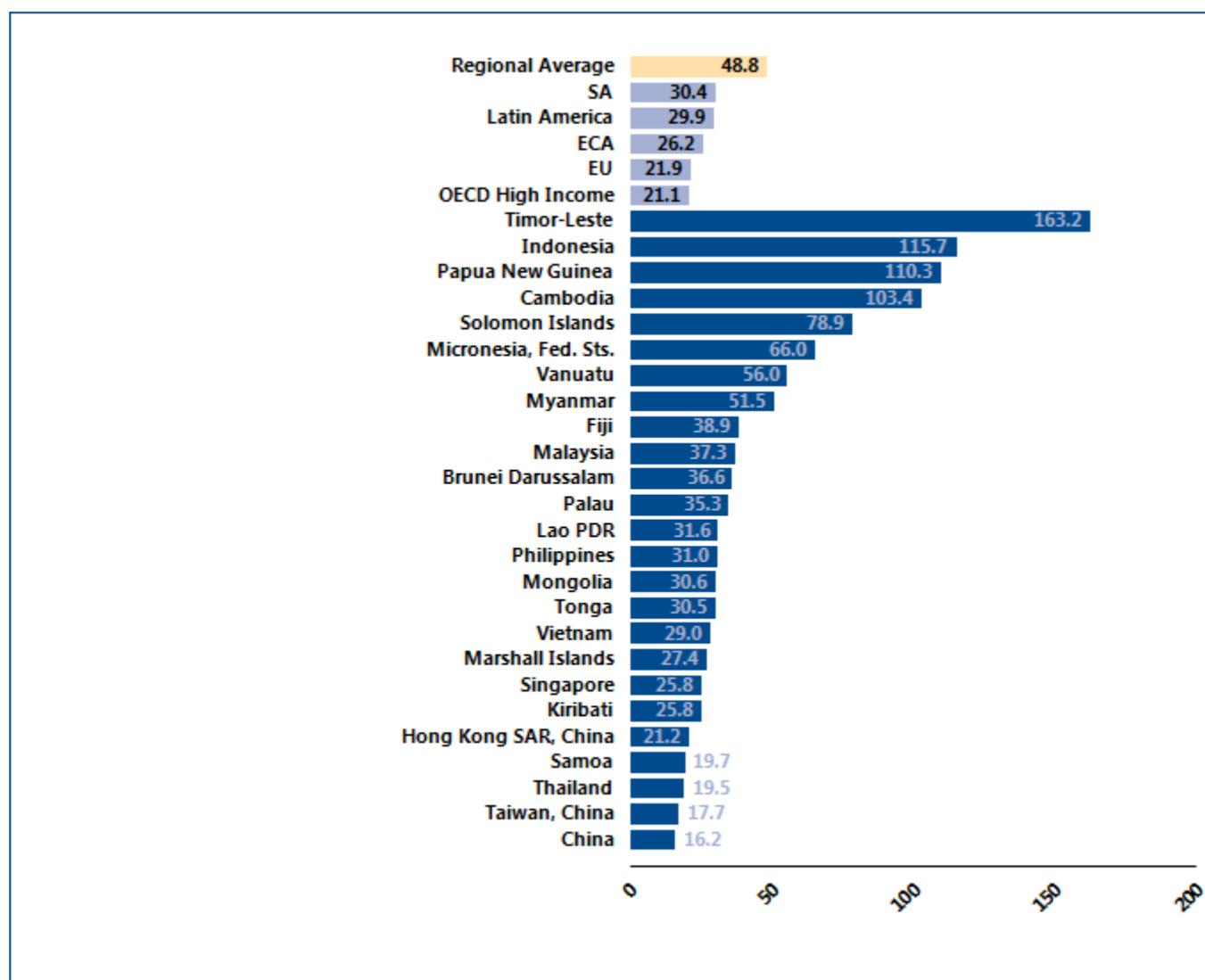
Figure 10.2 What it takes to enforce a contract through the courts in economies in East Asia and the Pacific (EAP)

**Time (days)**



## ENFORCING CONTRACTS

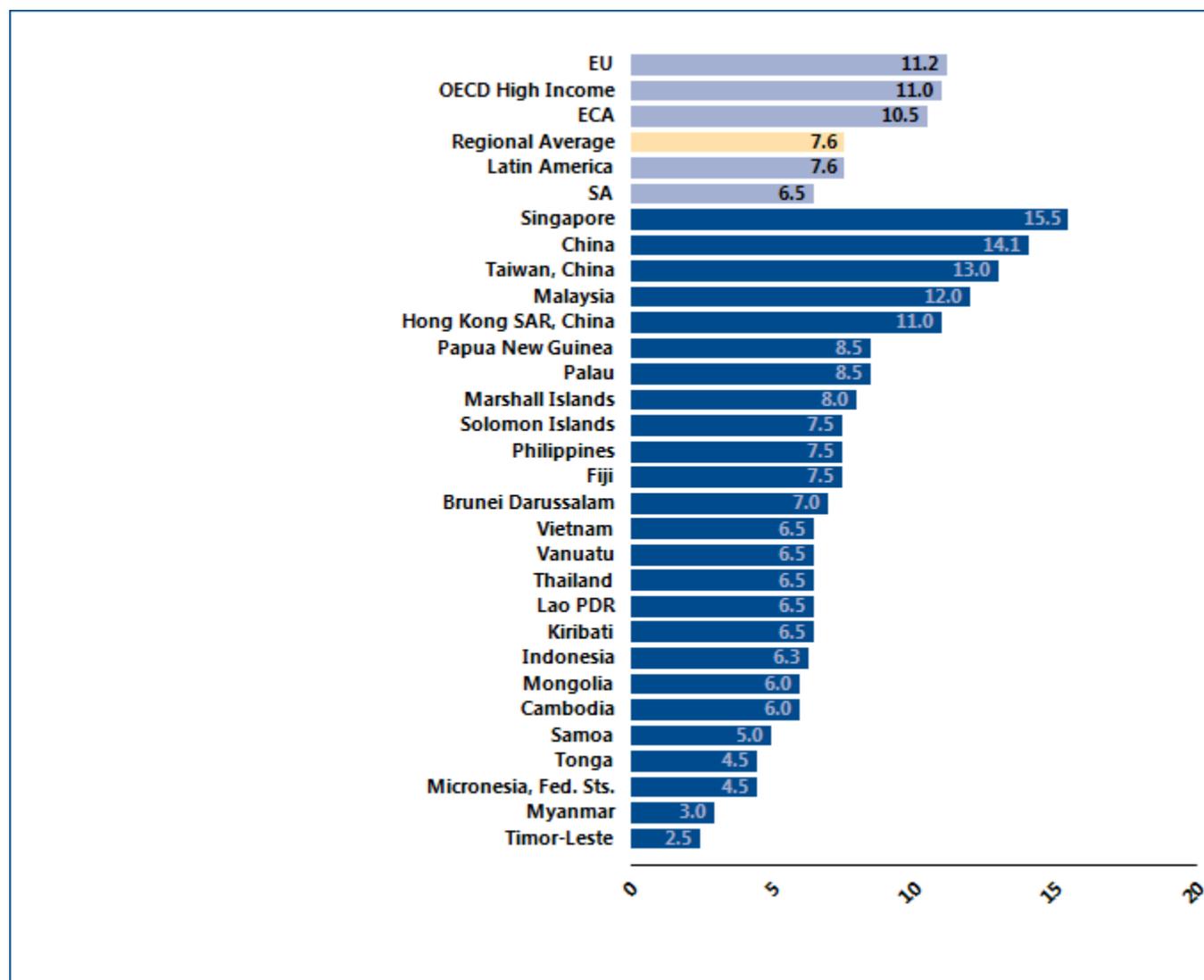
## Cost (% of claim)



Source: Doing Business database.

## ENFORCING CONTRACTS

## Quality of Judicial Processes Index (0-18)



Source: *Doing Business* database.

Note: Higher values indicate more efficient judicial processes.

## ENFORCING CONTRACTS

### What are the changes over time?

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 East Asia and the Pacific (EAP) (table 10.1)?

Table 10.1 How have economies in East Asia and the Pacific (EAP) made enforcing contracts easier—or not? By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2015	<i>Singapore</i>	Singapore made enforcing contracts easier by introducing a new electronic litigation system that streamlines litigation proceedings.
DB2014	<i>China</i>	China made enforcing contracts easier by amending its civil procedure code to streamline and speed up all court proceedings.
DB2014	<i>Palau</i>	Palau made enforcing contracts easier by introducing an electronic filing system for court users.
DB2012	<i>Malaysia</i>	Malaysia continued to improve the computerization of its courts by introducing a system making it possible to file complaints electronically.
DB2011	<i>Timor-Leste</i>	Timor-Leste increased court efficiency by training and appointing new judges and passing a new civil procedure code.
DB2011	<i>Hong Kong SAR, China</i>	Reforms implemented in the civil justice system of Hong Kong SAR (China) will help increase the efficiency and cost-effectiveness of commercial dispute resolution.
DB2010	<i>Malaysia</i>	Malaysia made enforcing contracts easier by increasing court staff, more strictly enforcing deadlines for processing documents and reorganizing the commercial court to allow swifter disposition of interlocutory matters.
DB2010	<i>Papua New Guinea</i>	Papua New Guinea made enforcing contracts easier by fully launching the specialized commercial track at the national court.

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.

## 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 clarifying 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 sustainably grow the economy.

### What do the indicators cover?

*Doing Business* studies the time, cost and outcome of insolvency proceedings involving domestic legal entities. These variables are used to calculate the recovery rate, which is recorded as cents on the dollar recovered by secured creditors through reorganization, liquidation or debt enforcement (foreclosure or receivership) proceedings. To determine the present value of the amount recovered by creditors, *Doing Business* uses the lending rates from the International Monetary Fund, supplemented with data from central banks and the Economist Intelligence Unit.

In addition, *Doing Business* evaluates the adequacy and integrity of the existing legal framework applicable to liquidation and reorganization proceedings through the strength of insolvency framework index. The index tests whether economies adopted internationally accepted good practices in four areas: commencement of proceedings, management of debtor's assets, reorganization proceedings and creditor participation.

The ranking of economies on the ease of resolving insolvency is determined by sorting their distance to frontier scores for resolving insolvency. These scores are the simple average of the distance to frontier scores for the recovery rate and the strength of insolvency framework index. The Resolving Insolvency indicator does not measure insolvency proceedings of individuals and financial institutions. The data are derived from questionnaire responses by local insolvency practitioners and verified through a study of laws and regulations as well as public information on bankruptcy systems.

### 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

#### Outcome

Whether business continues operating as a going concern or business assets are sold piecemeal

#### Recovery rate for creditors

Measures the cents on the dollar recovered by secured creditors

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

Official costs of the insolvency proceedings are deducted

Depreciation of furniture is taken into account

Present value of debt recovered

#### Strength of insolvency framework index (0-16)

Sum of the scores of four component indices:

Commencement of proceedings index (0-3)

Management of debtor's assets index (0-6)

Reorganization proceedings index (0-3)

Creditor participation index (0-4)

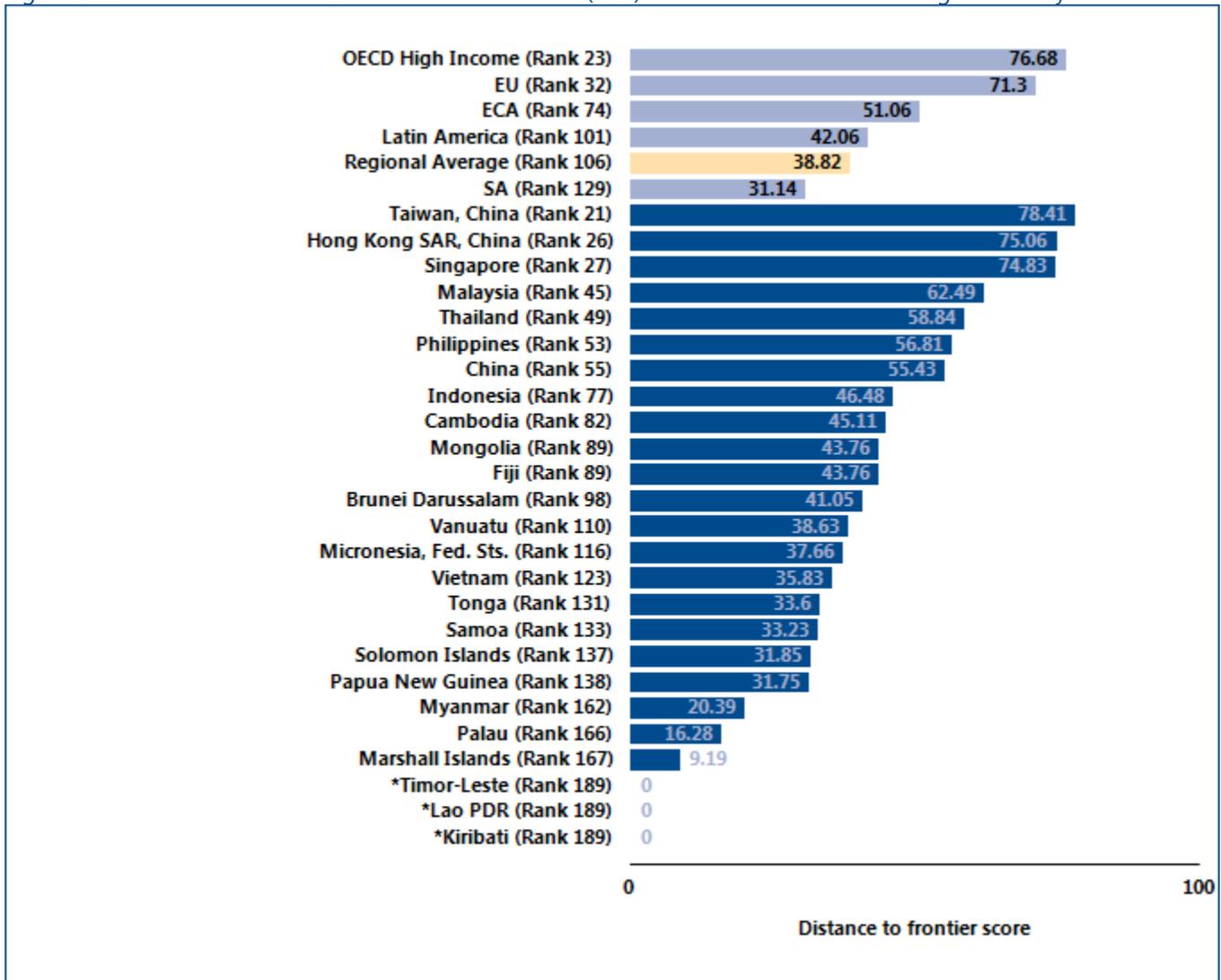
## RESOLVING INSOLVENCY

### Where do the region's economies stand today?

How efficient are insolvency proceedings in economies in East Asia and the Pacific (EAP)? The global rankings of these economies on the ease of resolving insolvency suggest an answer (figure 11.1). The average ranking of

the region and comparator regions provide a useful benchmark for assessing the efficiency of insolvency proceedings. Speed, low costs and continuation of viable businesses characterize the top-performing economies.

Figure 11.1 How economies in East Asia and the Pacific (EAP) rank on the ease of resolving insolvency



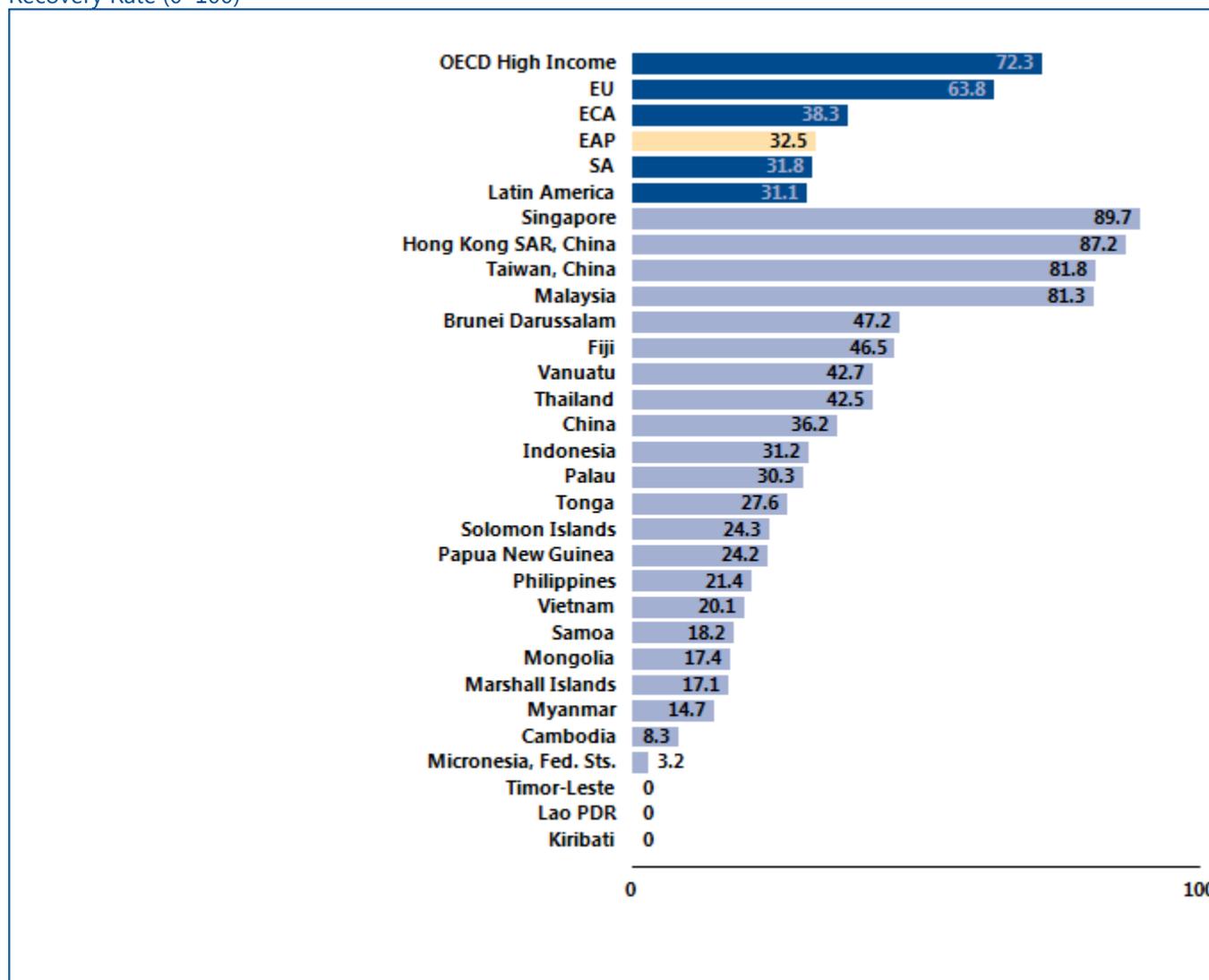
Source: Doing Business database.

## RESOLVING INSOLVENCY

The indicators underlying the rankings may be more revealing. Data collected by *Doing Business* show the average recovery rate and the average strength of insolvency framework index (figure 11.2). Comparing

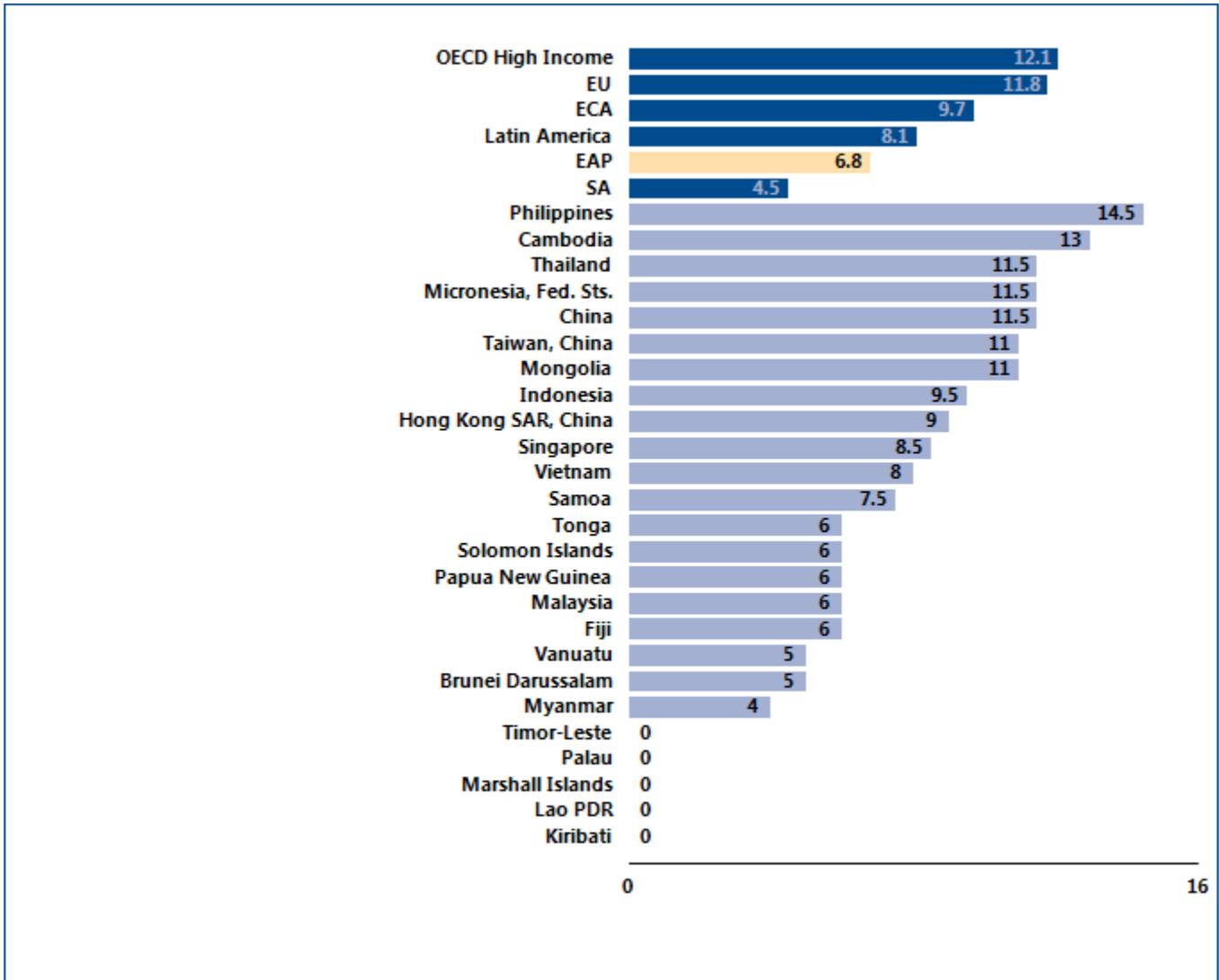
these indicators across the region and with averages both for the region and for comparator regions can provide useful insights.

Figure 11.2 How efficient is the insolvency process in economies in East Asia and the Pacific (EAP)  
Recovery Rate (0–100)



Source: *Doing Business* database.

## Total Strength of Insolvency Framework index (0-16)



Source: *Doing Business* database.

\* Indicates a “no practice” mark. See the data notes for details. 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.

Source: *Doing Business* database.

Note: Higher values indicate insolvency legislation that is better designed for rehabilitating viable firms and liquidating nonviable ones.

## RESOLVING INSOLVENCY

### What are the changes over time?

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 East Asia and the Pacific (EAP) (table 11.1)?

Table 11.1 How have economies in East Asia and the Pacific (EAP) made resolving insolvency easier—or not? By *Doing Business* report year DB2011 to DB2016

DB year	Economy	Reform
DB2016	Vietnam	Vietnam made resolving insolvency easier by clarifying and simplifying provisions on liquidation and reorganization, modifying the standard for commencement of insolvency proceedings, changing provisions on voidable transactions, regulating the profession of insolvency trustees and establishing the rules for enterprise asset managers.
DB2012	Malaysia	Malaysia established dedicated commercial courts to handle foreclosure proceedings.
DB2012	Philippines	The Philippines adopted a new insolvency law that provides a legal framework for liquidation and reorganization of financially distressed companies.
DB2012	Solomon Islands	The Solomon Islands adopted a new law that simplified insolvency proceedings.
DB2010	Samoa	Samoa made resolving insolvency easier through a new company act and a law introducing receivership.
DB2010	Philippines	The Philippines enhanced its insolvency process by promoting reorganization procedures through the introduction of prepackaged reorganizations and by establishing qualification requirements for receivers.

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.

## DISTANCE TO FRONTIER AND EASE OF DOING BUSINESS RANKING

*Doing Business* presents results for two aggregate measures: the distance to frontier score and the ease of doing business ranking, which is based on the distance to frontier score. The ease of doing business ranking compares economies with one another; the distance to frontier score benchmarks economies with respect to regulatory best practice, showing the absolute distance to the best performance on each *Doing Business* indicator. When compared across years, the distance to frontier score shows how much the regulatory environment for local entrepreneurs in an economy has changed over time in absolute terms, while the ease of doing business ranking can show only how much the regulatory environment has changed relative to that in other economies.

### Distance to Frontier

The distance to frontier score captures the gap between an economy's performance and a measure of best practice across the entire sample of 36 indicators for 10 *Doing Business* topics (the labor market regulation indicators are excluded). For starting a business, for example, the former Yugoslav Republic of Macedonia and New Zealand have the smallest number of procedures required (1), and New Zealand the shortest time to fulfill them (0.5 days). Slovenia has the lowest cost (0.0), and Australia, Colombia and 103 other economies have no paid-in minimum capital requirement (table 14.1 in the *Doing Business 2016* report).

#### Calculation of the distance to frontier score

Calculating the distance to frontier score for each economy involves two main steps. In the first step individual component indicators are normalized to a common unit where each of the 36 component indicators  $y$  (except for the total tax rate) is rescaled using the linear transformation  $(\text{worst} - y)/(\text{worst} - \text{frontier})$ . In this formulation the frontier represents the best performance on the indicator across all economies since 2005 or the third year in which data for the indicator were collected. Both the best performance and the worst performance are established every five years based on the *Doing Business* data for the year in which they are established, and remain at that level for the five years regardless of any changes in data in interim years. Thus an economy may set the frontier for an indicator

even though it is no longer at the frontier in a subsequent year.

For scores such as those on the strength of legal rights index or the quality of land administration index, the frontier is set at the highest possible value. For the total tax rate, consistent with the use of a threshold in calculating the rankings on this indicator, the frontier is defined as the total tax rate at the 15th percentile of the overall distribution for all years included in the analysis up to and including *Doing Business 2015*. For the time to pay taxes the frontier is defined as the lowest time recorded among all economies that levy the three major taxes: profit tax, labor taxes and mandatory contributions, and value added tax (VAT) or sales tax. For the different times to trade across borders, the frontier is defined as 1 hour even though in many economies the time is less than that.

In the same formulation, to mitigate the effects of extreme outliers in the distributions of the rescaled data for most component indicators (very few economies need 700 days to complete the procedures to start a business, but many need 9 days), the worst performance is calculated after the removal of outliers. The definition of outliers is based on the distribution for each component indicator. To simplify the process two rules were defined: the 95th percentile is used for the indicators with the most dispersed distributions (including minimum capital, number of payments to pay taxes, and the time and cost indicators), and the 99th percentile is used for number of procedures. No outlier is removed for component indicators bound by definition or construction, including legal index scores (such as the depth of credit information index, extent of conflict of interest regulation index and strength of insolvency framework index) and the recovery rate (figure 14.1).

In the second step for calculating the distance to frontier score, the scores obtained for individual indicators for each economy are aggregated through simple averaging into one distance to frontier score, first for each topic and then across all 10 topics: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting minority investors, paying taxes, trading across borders, enforcing contracts and resolving insolvency. More complex aggregation methods—such as principal components and unobserved components—yield a ranking nearly

identical to the simple average used by *Doing Business*<sup>4</sup>. Thus *Doing Business* uses the simplest method: weighting all topics equally and, within each topic, giving equal weight to each of the topic components<sup>5</sup>.

An economy's distance to frontier score is indicated on a scale from 0 to 100, where 0 represents the worst performance and 100 the frontier. All distance to frontier calculations are based on a maximum of five decimals. However, indicator ranking calculations and the ease of doing business ranking calculations are based on two decimals.

The difference between an economy's distance to frontier score in any previous year and its score in 2015 illustrates the extent to which the economy has closed the gap to the regulatory frontier over time. And in any given year the score measures how far an economy is from the best performance at that time.

#### Treatment of the total tax rate

The total tax rate component of the paying taxes indicator set enters the distance to frontier calculation in a different way than any other indicator. The distance to frontier score obtained for the total tax rate is transformed in a nonlinear fashion before it enters the distance to frontier score for paying taxes. As a result of the nonlinear transformation, an increase in the total tax rate has a smaller impact on the distance to frontier score for the total tax rate—and therefore on the distance to frontier score for paying taxes—for economies with a below-average total tax rate than it would have had before this approach was adopted in *Doing Business 2015* (line B is smaller than line A in figure 14.2 of the *Doing Business 2016* report). And for economies with an extreme total tax rate (a rate that is very high relative to the average), an increase has a greater impact on both these distance to frontier scores

than it would have had before (line D is bigger than line C in figure 14.2 of the *Doing Business 2016* report).

The nonlinear transformation is not based on any economic theory of an "optimal tax rate" that minimizes distortions or maximizes efficiency in an economy's overall tax system. Instead, it is mainly empirical in nature. The nonlinear transformation along with the threshold reduces the bias in the indicator toward economies that do not need to levy significant taxes on companies like the *Doing Business* standardized case study company because they raise public revenue in other ways—for example, through taxes on foreign companies, through taxes on sectors other than manufacturing or from natural resources (all of which are outside the scope of the methodology). In addition, it acknowledges the need of economies to collect taxes from firms.

#### Calculation of scores for economies with 2 cities covered

For each of the 11 economies in which *Doing Business* collects data for the second largest business city as well as the largest one, the distance to frontier score is calculated as the population-weighted average of the distance to frontier scores for these two cities (table 13.1). This is done for the aggregate score, the scores for each topic and the scores for all the component indicators for each topic.

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<sup>4</sup> See Djankov, Manraj and others (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.

<sup>5</sup> For getting credit, indicators are weighted proportionally, according to their contribution to the total score, with a weight of 60% assigned to the strength of legal rights index and 40% to the depth of credit information index. Indicators for all other topics are assigned equal weights

Table 13.1 Weights used in calculating the distance to frontier scores for economies with 2 cities covered

Economy	City	Weight (%)
Bangladesh	Dhaka	78
	Chittagong	22
Brazil	São Paulo	61
	Rio de Janeiro	39
China	Shanghai	55
	Beijing	45
India	Mumbai	47
	Delhi	53
Indonesia	Jakarta	78
	Surabaya	22
Japan	Tokyo	65
	Osaka	35
Mexico	Mexico City	83
	Monterrey	17
Nigeria	Lagos	77
	Kano	23
Pakistan	Karachi	65
	Lahore	35
Russian Federation	Moscow	70
	St. Petersburg	30
United States	New York	60
	Los Angeles	40

Source: United Nations, Department of Economic and Social Affairs, Population Division, World Urbanization Prospects, 2014 Revision. <http://esa.un.org/unpd/wup/CD-ROM/Default.aspx>.

#### Economies that improved the most across 3 or more *Doing Business* topics in 2014/15

*Doing Business 2016* uses a simple method to calculate which economies improved the ease of doing business the most. First, it selects the economies that in 2014/15

implemented regulatory reforms making it easier to do business in 3 or more of the 10 topics included in this year's aggregate distance to frontier score. Changes making it more difficult to do business are subtracted from the total number of those making it easier to do business. Twenty-four economies meet this criterion: Armenia; Azerbaijan; Benin; Costa Rica; Côte d'Ivoire; Cyprus; Hong Kong SAR, China; Indonesia; Jamaica; Kazakhstan; Kenya; Lithuania; Madagascar; Mauritania; Morocco; Romania; the Russian Federation; Rwanda; Senegal; Togo; Uganda; the United Arab Emirates; Uzbekistan; and Vietnam. Second, *Doing Business* sorts these economies on the increase in their distance to frontier score from the previous year using comparable data.

Selecting the economies that implemented regulatory reforms in at least three topics and had the biggest improvements in their distance to frontier scores is intended to highlight economies with ongoing, broad-based reform programs. The improvement in the distance to frontier score is used to identify the top improvers because this allows a focus on the absolute improvement—in contrast with the relative improvement shown by a change in rankings—that economies have made in their regulatory environment for business.

#### Ease of *Doing Business* ranking

The ease of doing business ranking ranges from 1 to 189. The ranking of economies is determined by sorting the aggregate distance to frontier scores, rounded to 2 decimals.

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<http://www.doingbusiness.org>

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How economies rank—from 1 to 189  
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*Doing Business 2016* is the 13th in a series of annual reports investigating the regulations that enhance business activity and those that constrain it. The report provides quantitative indicators covering 11 areas of the business environment in 189 economies. The goal of the *Doing Business* series is to provide objective data for use by governments in designing sound business regulatory policies and to encourage research on the important dimensions of the regulatory environment for firms.

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