

Doing Business 2015

Going Beyond Efficiency

Economy Profile 2015

Croatia



COMPARING BUSINESS REGULATIONS FOR DOMESTIC FIRMS IN **189** ECONOMIES

A World Bank Group Flagship Report

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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.

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, 26 in Eastern Europe and Central Asia, 20 in the Middle East and North Africa and 8 in South Asia, as well as 31 OECD high-income economies. The indicators are used to analyze economic outcomes and identify what reforms have worked, where and why.

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

1, 2014 (except for the paying taxes indicators, which cover the period January–December 2013).

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 2015* presents the indicators, analyzes their relationship with economic outcomes and presents business regulatory reforms. The data, along with information on ordering *Doing Business 2015*, are available on the *Doing Business* website at <http://www.doingbusiness.org>.

CHANGES IN *DOING BUSINESS 2015*

As part of a 2-year update in methodology, *Doing Business 2015* incorporates 7 important changes. First, the ease of doing business ranking as well as all topic-level rankings are now computed on the basis of distance to frontier scores (see the chapter on the distance to frontier and ease of doing business ranking). Second, for the 11 economies with a population of more than 100 million, data for a second city have been added to the data set and the ranking calculation. These economies are Bangladesh, Brazil, China, India, Indonesia, Japan, Mexico, Nigeria, Pakistan, the Russian Federation and the United States. Third, for getting credit, the methodology has been revised for both the strength of legal rights index and the depth of credit information index. The number of points has been increased in both indices, from 10 to 12 for the strength of legal rights index and from 6 to 8 for the depth of credit information index. In addition, only credit bureaus and registries that cover at least 5% of the adult population can receive a score on the depth of credit information index.

Fourth, the name of the protecting investors indicator set has been changed to protecting minority investors to better reflect its scope—and the scope of the indicator set has been expanded to include shareholders' rights in corporate governance beyond related-party transactions. Fifth, the resolving insolvency indicator set has been expanded to include an index measuring the strength of the legal framework for insolvency. Sixth, the calculation of the distance to frontier score for paying taxes has been changed. The total tax rate component now enters the score in a nonlinear fashion, in an approach different from that used for all other indicators (see the chapter on the distance to frontier and ease of doing business ranking).

Finally, the name of the employing workers indicator set has been changed to labor market regulation, and the scope of this indicator set has also been changed. The indicators now focus on labor market regulation applying to the retail sector rather than the manufacturing sector, and their coverage has been expanded to include regulations on labor disputes and on benefits provided to workers. The labor market regulation indicators continue to be excluded from the aggregate distance to frontier score and ranking on the ease of doing business.

Beyond these changes there are 3 other updates in methodology. For paying taxes, the financial statement variables have been updated to be proportional to 2012 income per capita; previously they were proportional to 2005 income per capita. For enforcing contracts, the value of the claim is now set at twice the income per capita or \$5,000, whichever is greater. For dealing with construction permits, the cost of construction is now set at 50 times income per capita (before, the cost was assessed by the *Doing Business* respondents). In addition, this indicator set no longer includes the procedures for obtaining a landline telephone connection.

For more details on the changes, see the "What is changing in *Doing Business*?" chapter starting on page 24 of the *Doing Business 2015* report. For more details on the data and methodology, please see the "Data Notes" chapter starting on page 114 of the *Doing Business 2015* 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. This year's report 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 (DTF) scores. 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. (See the chapter on the distance to frontier and ease of doing business). The 10 topics included in the ranking in *Doing Business 2015*: 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 (formerly employing workers) are not included in this year's aggregate ease of doing business ranking, but the data are presented in this year's economy profile.

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

ECONOMY OVERVIEW

Region: Europe & Central Asia

Income category: High income

Population: 4,252,700

GNI per capita (US\$): 13,330

DB2015 rank: 65

DB2014 rank: 67*

Change in rank: 2

DB 2015 DTF: 66.5

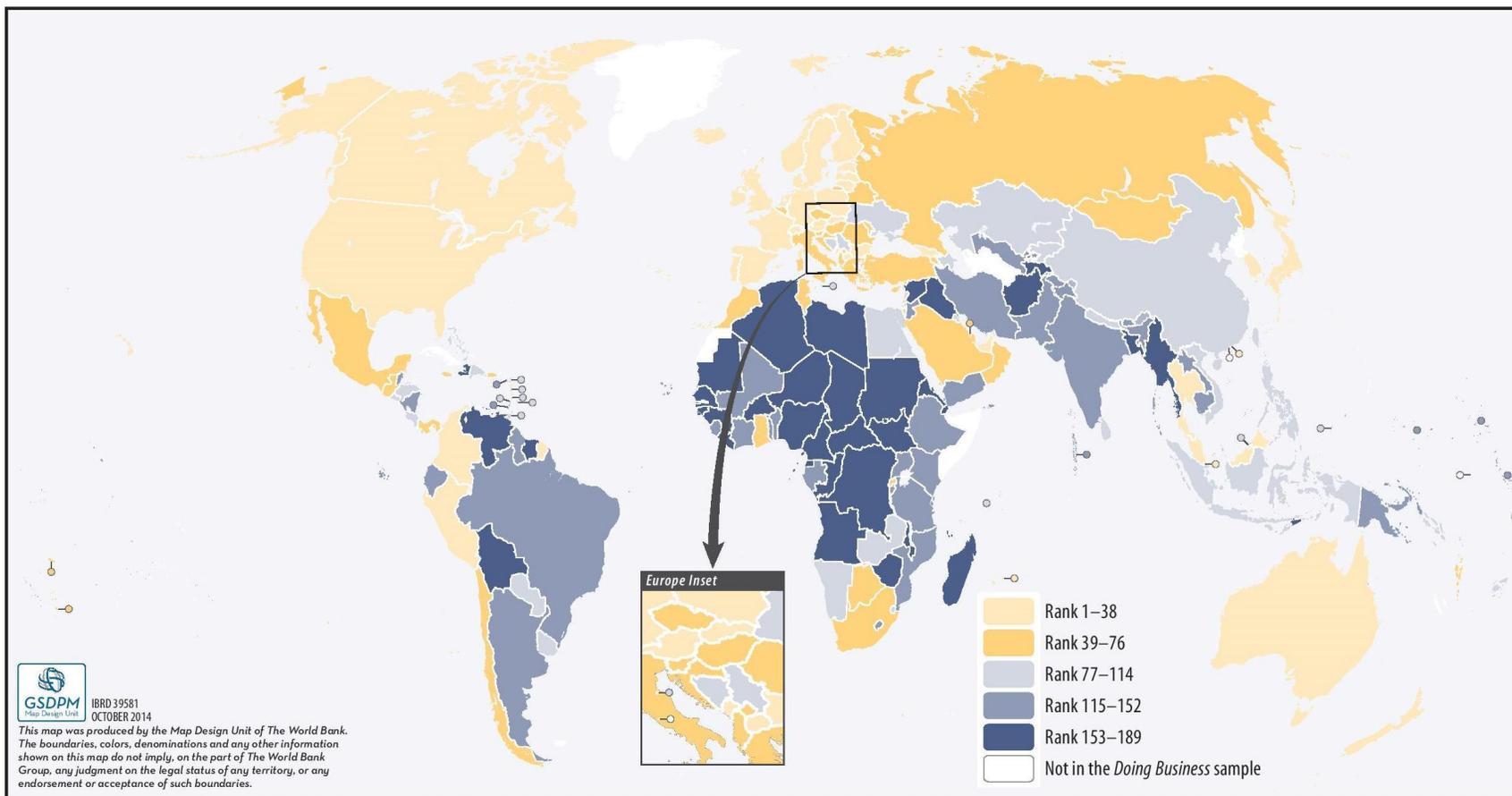
DB 2014 DTF: 64.4

Change in DTF: 2.1

* DB2014 ranking shown is not last year's published ranking but a comparable ranking for DB2014 that captures the effects of such factors as data corrections and the changes in methodology. See the data notes starting on page 114 of the *Doing Business 2015* report for sources and definitions.

THE BUSINESS ENVIRONMENT

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



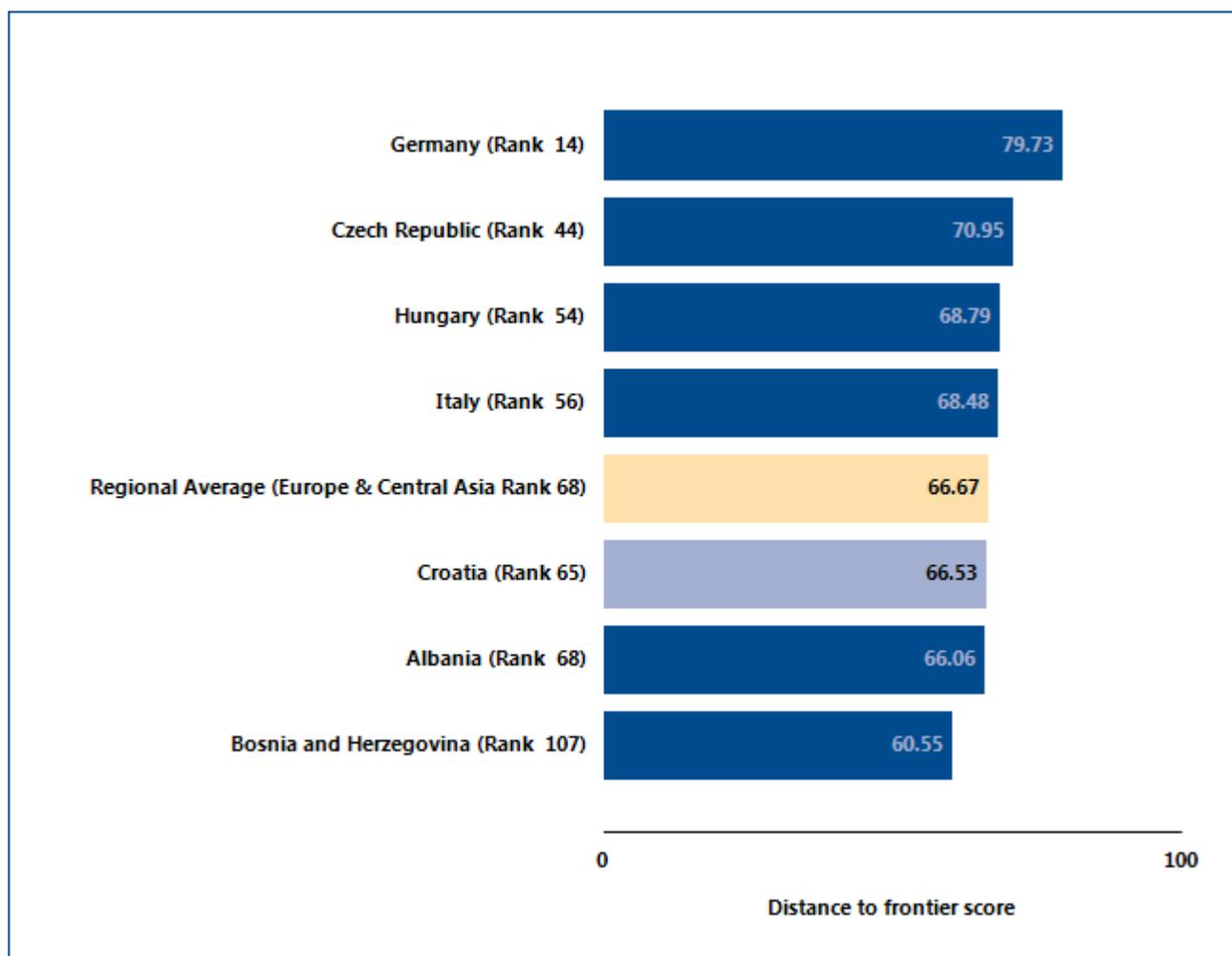
Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

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

regional average (figure 1.2). The economy's rankings (figure 1.3) and distance to frontier scores (figure 1.4) on the topics included in the ease of doing business ranking provide another perspective.

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



Note: The rankings are benchmarked to June 2014 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 - Croatia
 (Scale: Rank 189 center, Rank 1 outer edge)

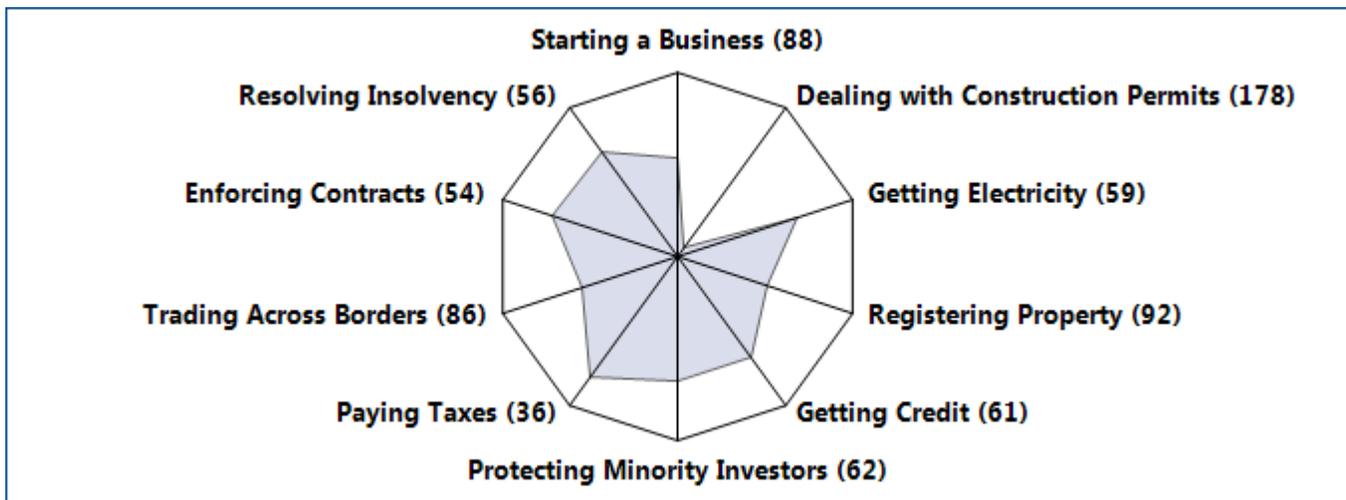
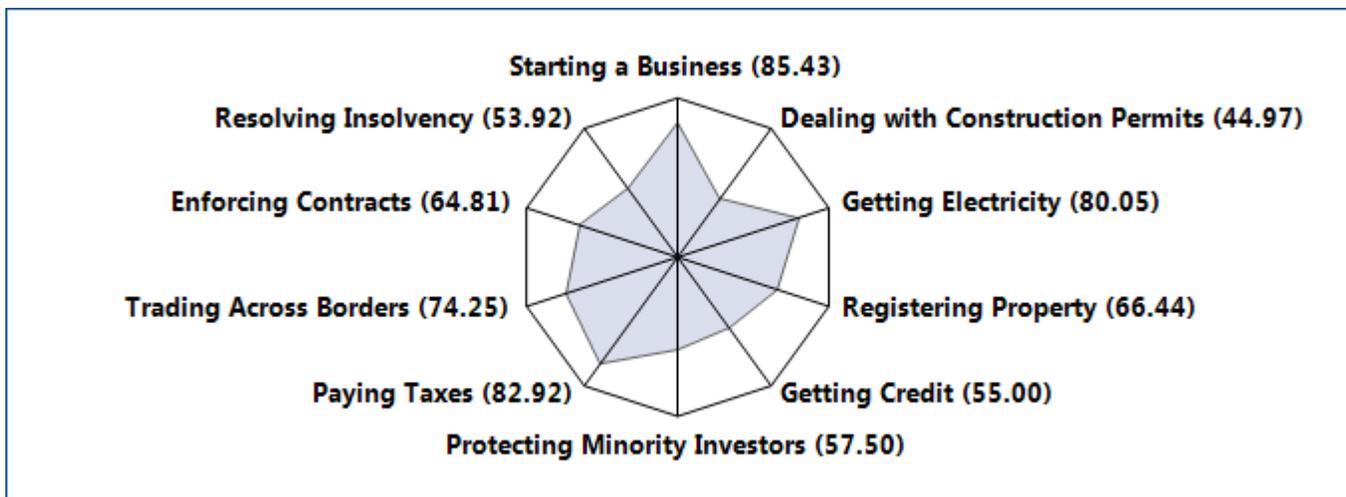


Figure 1.4 Distance to frontier scores on *Doing Business* topics - Croatia
 (Scale: Score 0 center, Score 100 outer edge)



Note: The rankings are benchmarked to June 2014 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

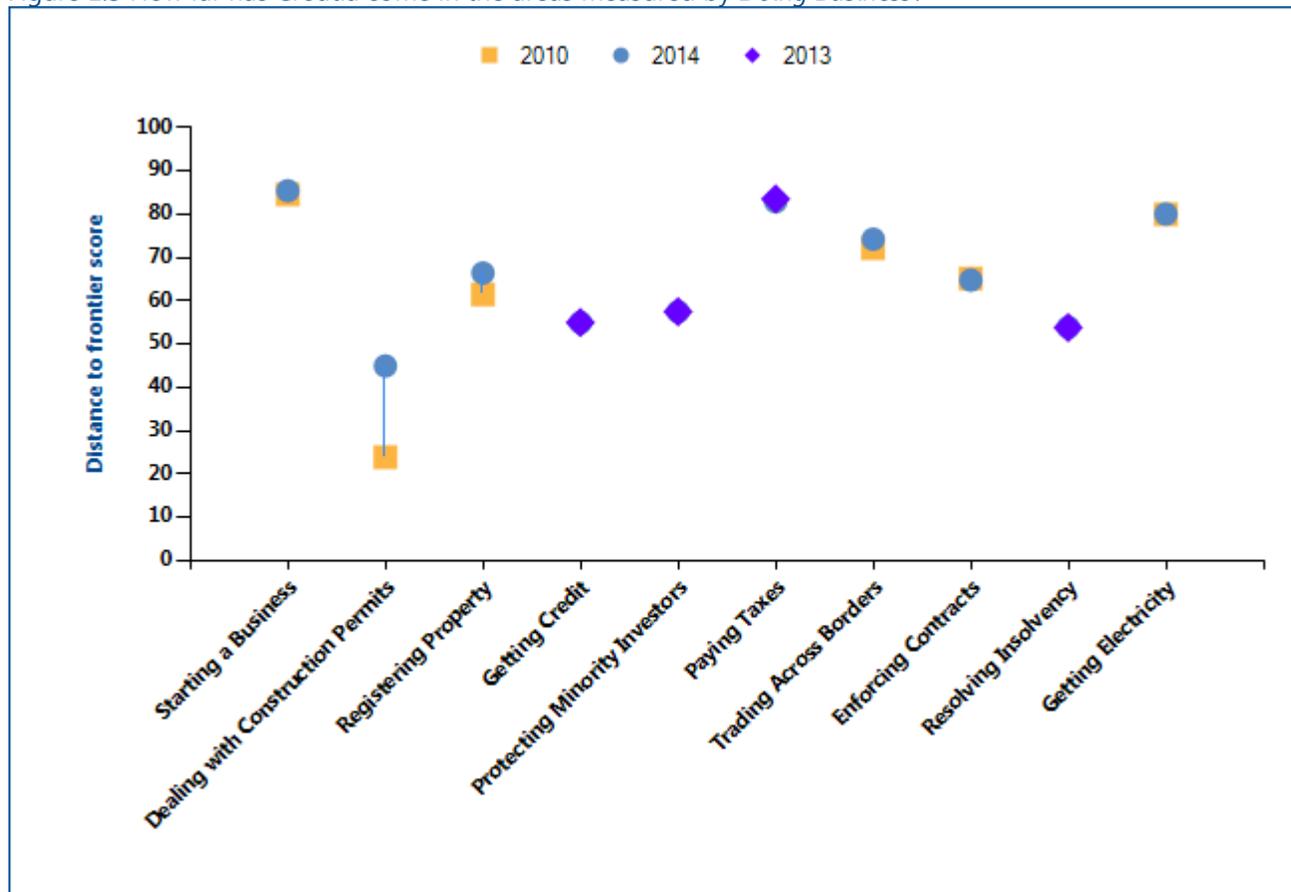
Just as the overall ranking on the ease of doing business tells only part of the story, so do changes in that ranking. Yearly movements in rankings can provide some indication of changes in an economy’s regulatory environment for firms, but they are always relative.

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

Doing Business introduced the distance to frontier score. This measure shows how far on average an economy is from the best performance achieved by any economy on each *Doing Business* indicator.

Comparing the measure for an economy at 2 points in time allows users to assess how much the economy’s regulatory environment as measured by *Doing Business* has changed over time—how far it has moved toward (or away from) the most efficient practices and strongest regulations in areas covered by *Doing Business* (figure 1.5).

Figure 1.5 How far has Croatia come in the areas measured by *Doing Business*?



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 since 2010, except for getting credit, paying taxes, protecting minority investors and resolving insolvency which had methodology changes in 2014 and thus are only comparable to 2013. 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 114 of the *Doing Business 2015* report for more details on the distance to frontier score.

Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

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

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

Table 1.1 Summary of *Doing Business* indicators for Croatia

Indicator	Croatia DB2015	Croatia DB2014	Albania DB2015	Bosnia and Herzegovina DB2015	Czech Republic DB2015	Germany DB2015	Hungary DB2015	Italy DB2015	Best performer globally DB2015
Starting a Business (rank)	88	85	41	147	110	114	57	46	New Zealand (1)
Starting a Business (DTF Score)	85.43	84.72	91.86	72.51	82.58	81.38	90.04	91.22	New Zealand (99.96)
Procedures (number)	7.0	7.0	5.0	11.0	9.0	9.0	4.0	5.0	New Zealand (1.0)*
Time (days)	15.0	15.0	4.5	37.0	19.0	14.5	5.0	5.0	New Zealand (0.5)
Cost (% of income per capita)	3.5	9.1	10.0	14.6	8.0	8.8	8.3	14.1	Slovenia (0.0)
Paid-in min. capital (% of income per capita)	26.6	26.9	0.0	28.6	0.0	35.8	54.0	0.0	112 Economies (0.0)*
Dealing with Construction Permits (rank)	178	185	157	182	139	8	103	116	Hong Kong SAR, China (1)
Dealing with Construction Permits (DTF Score)	44.97	25.30	56.50	39.10	62.91	87.42	69.37	67.35	Hong Kong SAR, China (95.53)

Indicator	Croatia DB2015	Croatia DB2014	Albania DB2015	Bosnia and Herzegovina DB2015	Czech Republic DB2015	Germany DB2015	Hungary DB2015	Italy DB2015	Best performer globally DB2015
Procedures (number)	21.0	22.0	19.0	15.0	24.0	8.0	23.0	10.0	Hong Kong SAR, China (5.0)
Time (days)	188.0	379.0	228.0	179.0	143.0	96.0	91.0	233.0	Singapore (26.0)
Cost (% of warehouse value)	10.9	11.2	3.3	19.7	0.3	1.1	0.2	3.7	Qatar (0.0)*
Getting Electricity (rank)	59	55	152	163	123	3	162	102	Korea, Rep. (1)
Getting Electricity (DTF Score)	80.05	80.04	58.34	54.72	66.52	98.37	55.10	72.65	Korea, Rep. (99.83)
Procedures (number)	5.0	5.0	6.0	8.0	6.0	3.0	5.0	5.0	12 Economies (3.0)*
Time (days)	70.0	70.0	177.0	125.0	129.0	28.0	252.0	124.0	Korea, Rep. (18.0)*
Cost (% of income per capita)	316.7	319.8	472.6	484.4	175.8	44.4	111.5	212.6	Japan (0.0)
Registering Property (rank)	92	91	118	88	31	89	52	41	Georgia (1)
Registering Property (DTF Score)	66.44	66.44	60.67	68.12	81.87	67.78	78.04	79.44	Georgia (99.88)
Procedures (number)	5.0	5.0	6.0	7.0	3.0	5.0	4.0	4.0	4 Economies (1.0)*
Time (days)	72.0	72.0	22.0	24.0	24.0	40.0	16.5	16.0	3 Economies (1.0)*
Cost (% of property value)	5.0	5.0	9.9	5.2	4.0	6.7	5.0	4.4	4 Economies (0.0)*
Getting Credit (rank)	61	55	36	36	23	23	17	89	New Zealand (1)
Getting Credit (DTF Score)	55.00	55.00	65.00	65.00	70.00	70.00	75.00	45.00	New Zealand (100)
Strength of legal rights index (0-12)	5	5	7	7	7	6	10	2	3 Economies (12)*

Indicator	Croatia DB2015	Croatia DB2014	Albania DB2015	Bosnia and Herzegovina DB2015	Czech Republic DB2015	Germany DB2015	Hungary DB2015	Italy DB2015	Best performer globally DB2015
Depth of credit information index (0-8)	6	6	6	6	7	8	5	7	23 Economies (8)*
Credit registry coverage (% of adults)	0.0	0.0	16.7	39.7	6.4	1.3	0.0	24.6	Portugal (100.0)
Credit bureau coverage (% of adults)	100.0	100.0	0.0	8.1	76.6	100.0	74.6	100.0	23 Economies (100.0)*
Protecting Minority Investors (rank)	62	61	7	83	83	51	110	21	New Zealand (1)
Protecting Minority Investors (DTF Score)	57.50	57.50	72.50	54.17	54.17	59.17	47.50	66.67	New Zealand (81.67)
Extent of conflict of interest regulation index (0-10)	5.0	5.0	7.3	4.7	5.3	5.0	4.0	6.0	Singapore (9.3)*
Extent of shareholder governance index (0-10)	6.5	6.5	7.2	6.2	5.5	6.8	5.5	7.3	France (7.8)*
Strength of minority investor protection index (0-10)	5.8	5.8	7.3	5.4	5.4	5.9	4.8	6.7	New Zealand (8.2)
Paying Taxes (rank)	36	33	131	151	119	68	88	141	United Arab Emirates (1)*
Paying Taxes (DTF Score)	82.92	83.54	64.75	58.22	67.66	77.02	73.27	62.13	United Arab Emirates (99.44)*
Payments (number per year)	19.0	19.0	34.0	45.0	8.0	9.0	11.0	15.0	Hong Kong SAR, China (3.0)*
Time (hours per year)	208.0	196.0	357.0	407.0	413.0	218.0	277.0	269.0	Luxembourg (55.0)
Trading Across Borders (rank)	86	88	95	104	58	18	72	37	Singapore (1)
Trading Across Borders	74.25	73.24	72.48	69.76	78.33	87.67	76.48	83.44	Singapore (96.47)

Indicator	Croatia DB2015	Croatia DB2014	Albania DB2015	Bosnia and Herzegovina DB2015	Czech Republic DB2015	Germany DB2015	Hungary DB2015	Italy DB2015	Best performer globally DB2015
(DTF Score)									
Documents to export (number)	6	6	7	8	4	4	6	3	Ireland (2)*
Time to export (days)	16.0	18.0	19.0	16.0	17.0	9.0	17.0	19.0	5 Economies (6.0)*
Cost to export (US\$ per container)	1,335.0	1,335.0	745.0	1,260.0	1,240.0	1,015.0	885.0	1,195.0	Timor-Leste (410.0)
Cost to export (deflated US\$ per container)	1,335.0	1,341.5	745.0	1,260.0	1,240.0	1,015.0	885.0	1,195.0	
Documents to import (number)	7	7	8	8	6	4	6	3	Ireland (2)*
Time to import (days)	14.0	15.0	18.0	13.0	17.0	7.0	19.0	18.0	Singapore (4.0)
Cost to import (US\$ per container)	1,185.0	1,185.0	730.0	1,200.0	1,215.0	1,050.0	845.0	1,145.0	Singapore (440.0)
Cost to import (deflated US\$ per container)	1,185.0	1,190.7	730.0	1,200.0	1,215.0	1,050.0	845.0	1,145.0	
Enforcing Contracts (rank)	54	56	102	95	37	13	20	147	Singapore (1)
Enforcing Contracts (DTF Score)	64.81	64.81	57.14	57.64	68.00	76.74	73.36	45.61	Singapore (89.54)
Time (days)	572.0	572.0	525.0	595.0	611.0	394.0	395.0	1,185.0	Singapore (150.0)
Cost (% of claim)	13.8	13.8	34.9	34.0	33.0	14.4	15.0	23.1	Iceland (9.0)
Procedures (number)	38.0	38.0	39.0	37.0	27.0	31.0	34.0	37.0	Singapore (21.0)*
Resolving Insolvency (rank)	56	56	44	34	20	3	64	29	Finland (1)
Resolving Insolvency (DTF Score)	53.92	53.82	61.37	66.21	77.50	91.78	49.78	71.29	Finland (93.85)

Indicator	Croatia DB2015	Croatia DB2014	Albania DB2015	Bosnia and Herzegovina DB2015	Czech Republic DB2015	Germany DB2015	Hungary DB2015	Italy DB2015	Best performer globally DB2015
Time (years)	3.1		2.0	3.3	2.1	1.2	2.0	1.8	Ireland (0.4)
Cost (% of estate)	14.5	14.5	10.0	9.0	17.0	8.0	14.5	22.0	Norway (1.0)
Outcome (0 as piecemeal sale and 1 as going concern)	0	0	0	0	1	1	0	1	
Recovery rate (cents on the dollar)	30.5	30.3	41.5	35.9	65.6	83.4	40.2	62.8	Japan (92.9)
Strength of insolvency framework index (0-16)	12.0	12.0	12.5	15.0	13.5	15.0	9.0	12.0	5 Economies (15.0)*

Note: DB2014 rankings shown are not last year's published rankings but comparable rankings for DB2014 that capture the effects of such factors as data corrections and changes to the methodology. Trading across borders deflated and non-deflated values are identical in DB2015 because it is defined as the base year for the deflator. The best performer on time for paying taxes is defined as the lowest time recorded among all economies in the DB2015 sample that levy the 3 major taxes: profit tax, labor taxes and mandatory contributions, and VAT or sales tax. 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.

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

Source: *Doing Business* database.

STARTING A BUSINESS

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

What do the indicators cover?

Doing Business measures the ease of starting a business in an economy by recording all procedures 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 and is 100% domestically owned¹.
- Has between 10 and 50 employees.
- 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.

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 city¹
- 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)

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

STARTING A BUSINESS

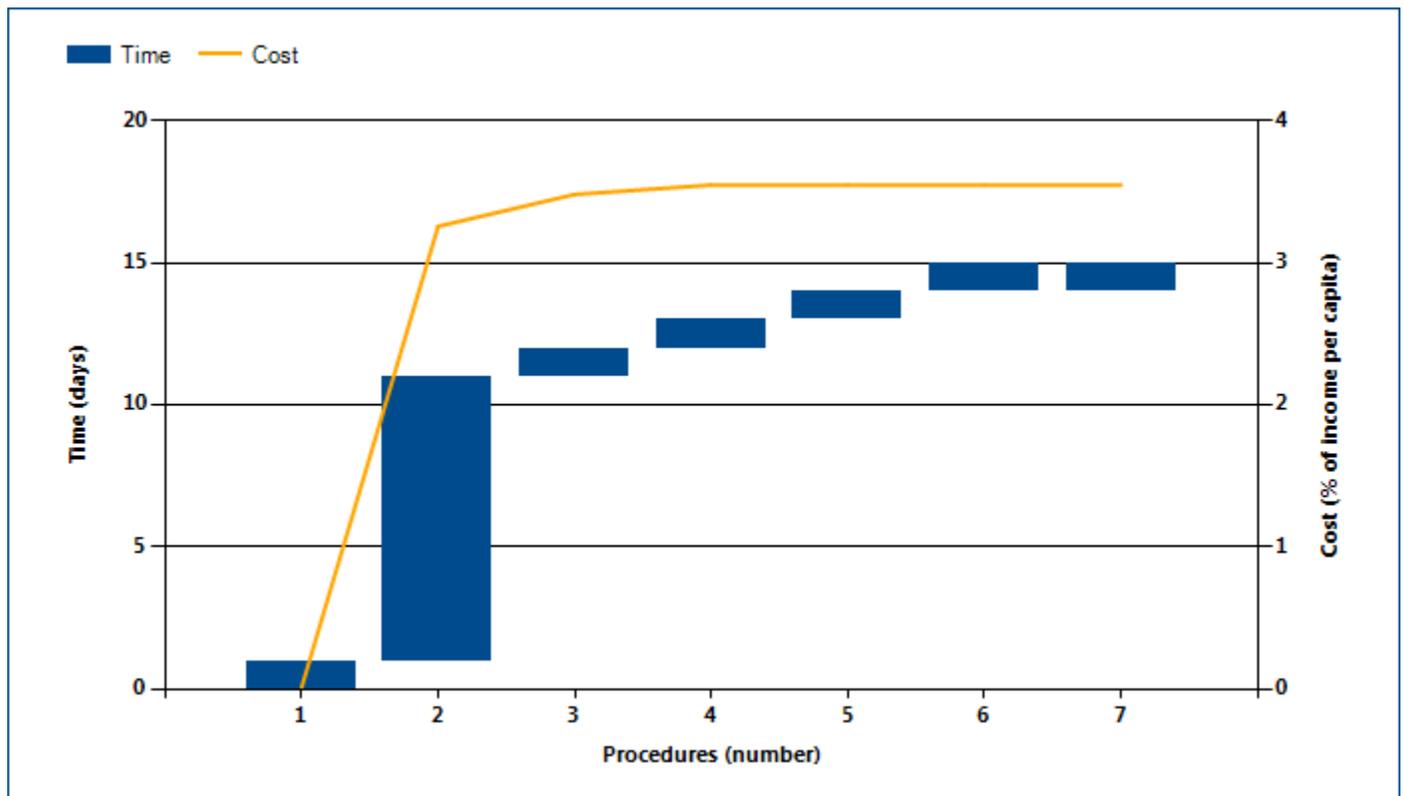
Where does the economy stand today?

What does it take to start a business in Croatia? According to data collected by *Doing Business*, starting a business there requires 7.0 procedures, takes 15.0 days, costs 3.5% of income per capita and requires paid-in minimum capital of 26.6% of income per capita (figure 2.1). Most indicator sets refer to a case scenario in the

largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Figure 2.1 What it takes to start a business in Croatia -

Paid-in minimum capital (% of income per capita): 26.6



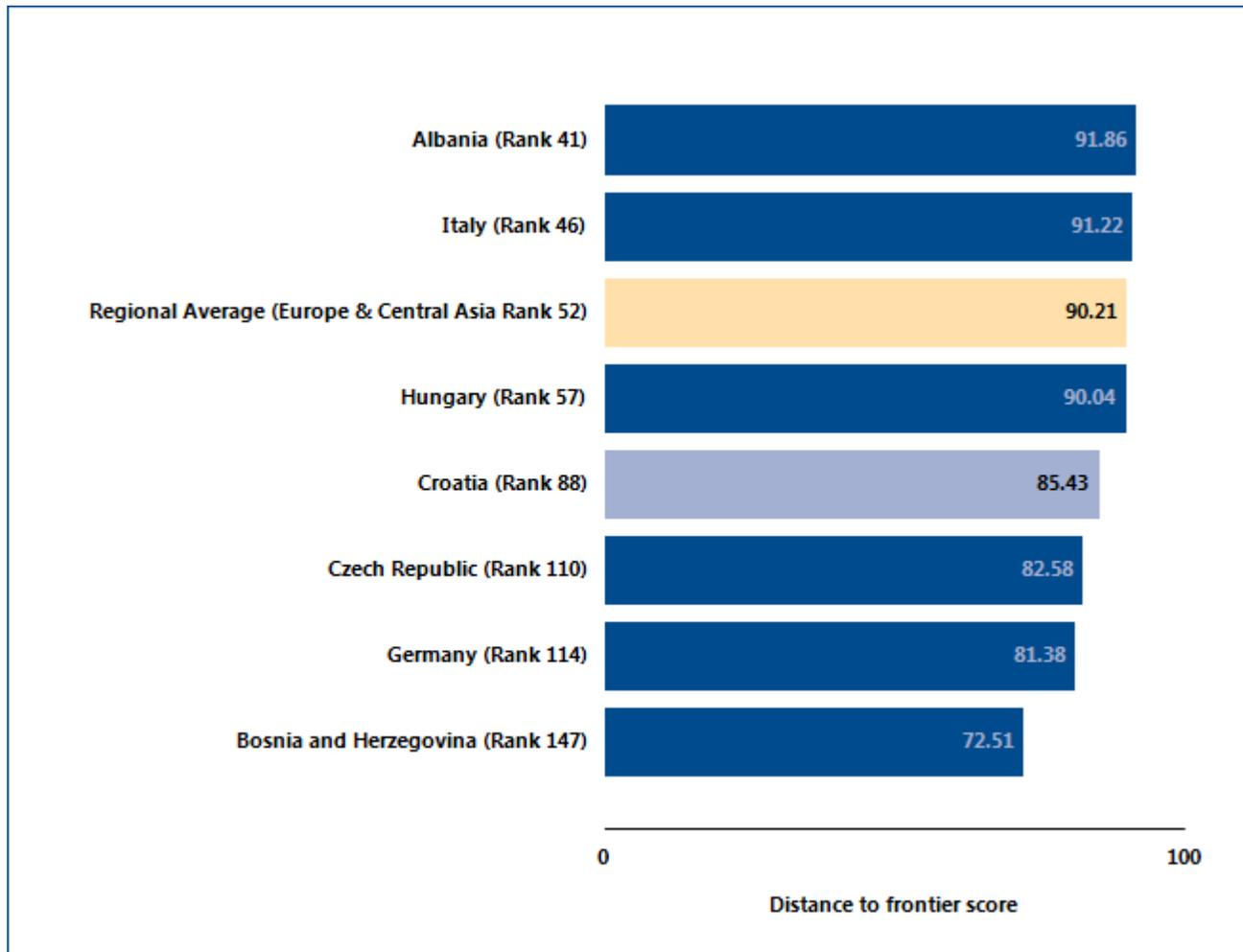
Note: Time shown in the figure above may not reflect simultaneity of procedures. Online procedures account for 0.5 days in the total time calculation. For more information on the methodology of the starting a business indicators, see the *Doing Business* website (<http://www.doingbusiness.org>). For details on the procedures reflected here, see the summary at the end of this chapter. Source: *Doing Business* database.

STARTING A BUSINESS

Globally, Croatia stands at 88 in the ranking of 189 economies on the ease of starting a business (figure 2.2). The rankings for comparator economies and the regional

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

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



Source: Doing Business database.

STARTING A BUSINESS

Economies around the world have taken steps making it easier to start a business—streamlining procedures by setting up a one-stop shop, making procedures simpler or faster by introducing technology and reducing or eliminating minimum capital requirements. Many have undertaken business registration reforms in stages—and

they often are part of a larger regulatory reform program. Among the benefits have been greater firm satisfaction and savings and more registered businesses, financial resources and job opportunities.

What business registration reforms has *Doing Business* recorded in Croatia (table 2.1)?

Table 2.1 How has Croatia made starting a business easier—or not?
By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2011	Croatia eased business start-up by allowing limited liability companies to file their registration application with the court registries electronically through the notary public.
DB2014	Croatia made starting a business easier by introducing a new form of limited liability company with a lower minimum capital requirement and simplified incorporation procedures.
DB2015	Croatia made starting a business easier by reducing notary 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.

STARTING A BUSINESS

What are the details?

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

STANDARDIZED COMPANY

Legal form: Limited Liability Company: JDOO

Paid in minimum capital requirement: HRK 20,000

City: Zagreb

Start-up Capital: 10 times GNI per capita

Table 2.2 Summary of time, cost and procedures for starting a business in Croatia -

No.	Procedure	Time to complete	Cost to complete
1	<p>Check availability of the company's name</p> <p>The founder can check the availability of the company name online by searching through the database of the court registry. HITRO cannot verify the availability of the name for the company that is going to be established. The competent commercial court has to be contacted personally.</p> <p>Checking the availability of the company's name through the database of the court registry is free of charge. However, the court fee for the reservation of the company name is 10 HRK.</p> <p><i>Agency: Commercial court</i></p>	Less than one day (online procedure)	10 HRK (see comments)
2	<p>Notarize memorandum of association and register company with the Commercial Court (electronically)</p> <p>HITRO is entitled to incorporate the company – open an account and pay the capital share. However, HITRO registration is not as common as the registration through a notary. All the papers have to be presented in hard copy irrespective of the online procedure of hitro.hr. Electronic registration is not fully operational, as the e-signature has not been put in place yet. Registration through a notary takes at least 10-15 days. Notary submits the authorization of registry to Commercial Court in person, it takes 1 day. Nonexistence of debt claims are certified by the notary and submitted with the authorization of registry. There is no e-filing in Croatia (at least not yet) despite the HITRO project but the</p>	10 days	see procedure details

No.	Procedure	Time to complete	Cost to complete
	<p>status of the case can be checked online. One has to pick up the registration in person (only on Fridays and Tuesdays). Two fees are required by the Commercial Court: court fee and the fee for the announcement of the registration in the official gazette. All fees are available at the Commercial Court.</p> <p>Legal basis:</p> <ol style="list-style-type: none"> 1. Regulation of performing registrations in the court registry (Official Gazette No. 22/2012) - Articles 34, 38, 58th to 64th, 2. Act on Amendments of the Companies Act (Official Gazette No. 111/2012) - Article 16, 3. Act on Amendments of the Law on Court Fees (Official Gazette No. 112/2012) - Articles 1 and 2, 4. Regulation on amending the Regulation on temporary notary public Tariff (Official Gazette 115/2012) - Article 1 <p>Link: http://narodne-novine.nn.hr/</p> <p>Revised fees by Chamber of Notaries are as follows: HRK 1000 + VAT (drafting and notarizing the articles of association), HRK 200 + VAT (drafting application for registration),</p> <p>HRK 30 + 25% VAT (drafting and notarizing acceptance of appointment, only the certification of signature is necessary),</p> <p>HRK 30 + 25% VAT (notarizing founders' statements of non-existence of debts, only the certification of signature is necessary)</p> <p>HRK 30 + 25% VAT (notarizing director signature specimen)</p> <p>HRK 250 (court fees) HRK 900 (publication fees)</p> <p>Agency: <i>Notary and Commercial Court</i></p>		
3	<p>Order official seal</p> <p>Official seals are readily available throughout Croatia at special seal-making shops. A copy of the court decision on registration of incorporation should be presented in order to have the seal made. The seal should be used on all official documents (including invoices, receipts and so on) issued by the company. Seals can also be ordered through FINA offices (on 24 locations as well as where are HITRO.HR offices). If done through FINA, the entrepreneur can at the same time also apply for statistical registration. This is due to a reform introduced by the Governments Ordinance on formulation of operations done by financial agency in the one-stop- shop implementation (Official Gazette 98/05).</p> <p>The Company has to obtain a Statistical File Number with the State Bureau of Statistics (Drzavni zavod za statistiku), in a form of "Information on classification of the business entity pursuant to the</p>	1 day	HRK 169

No.	Procedure	Time to complete	Cost to complete
	<p>National Classification of Activities". If given the appropriate Special Power of Attorney, FINA registers the company with the State Office for Statistics (Drzavni zavod za statistiku) and obtains the Statistical File Number in a form of "Information on classification of the business entity pursuant to the National Classification of Activities."</p> <p><i>Agency: Seal maker</i></p>		
4	<p>Apply for statistical registration number</p> <p>Statistical Registration Number is obtained before a State Statistical Department. Statistical identification number is necessary to open a bank account.</p> <p><i>Agency: State Statistical Department</i></p>	1 day	HRK 50
5	<p>Open a bank account</p> <p>Documents required to open a company bank account are:</p> <ol style="list-style-type: none"> 1. Ruling on registration of a Company, 2. Statistical registration number of a Company, 3. Personal identification number (OIB) of a Company <p>In case of Ltd. Company establishment client signs: the Contract, signature cards, a statement of the beneficial owner and the related parties, and must provide a copy of personal data, extract from the Court Register and Information on classification of the business entity pursuant to the National Classification of Activities.</p> <p><i>Agency: Bank</i></p>	1 day	no charge
6	<p>* Register with tax authority (porezna uprava) for VAT and employee income tax withdrawals</p> <p>Upon registering with the Commercial Court Register and fulfilling its obligations with the State Bureau of Statistics, the company must register with the competent tax authority. Once a company is registered at the State Bureau of Statistics, company data is sent electronically to the tax authority, which levies the annual company tax. The company must register for VAT at the Tax Office, however, only after its first invoice (within 15 days of issuance). Once the company is registered for VAT, all tax payments can be processed through an electronic system, e-VAT. If the company's total taxable annual income exceeds HRK 230,000, it must register itself as an entity in the VAT system with the competent tax authority, based on the company's registered seat. Starting from January 01, 2009 a revision of the existing Croatian Law on Companies came into force (published in the Official Gazette no. 146/2008). The change involves inducing "OIB" (personal identification number), that replaces tax number for legal entities. Personal identification number is defined as identification mark of personal</p>	1 day (simultaneous with previous procedure)	no charge

No.	Procedure	Time to complete	Cost to complete
	<p>identification number that users of that number use in their official evidences and with change of dates.</p> <p><i>Agency: Tax Authority</i></p>		
7	<p>* Register with the Croatian Institute for Pension Insurance (HZMO) and Croatian Institute for Health Insurance (HZZO)</p> <p>The Company must register with the Croatian Institute for Pension Insurance within 24 hours from the start of its business operation. The Company must also register each of its employees with the Croatian Institute for Pension Insurance within 24 hours. Company with 3 or more employees will be obligated from 1 April 2014 to register/deregister employees at Croatian Institute for Pension Insurance exclusively online.</p> <p>Currently the procedure may be completed before the competent HZZO office or with HITRO. The following documents should be submitted:</p> <ul style="list-style-type: none"> • Decision about the registration into the Court Registry. • Notice of classification from the National Institute for Statistics Application (to the Croatian Health Insurance Fund). • Proof of place of residence and the work contract. <p>All persons employed for the first time and age 40 are obliged to register in the second pillar of retirement insurance. A person has to choose the obligatory pension fund within 3 months of the date of employment. If the fund is not chosen after that period, REGOS (the Central Register of the Insured) itself chooses the obligatory pension fund that the person will register in. All persons employed for the first time and between ages 40 and 50 can, if they desire, register with the second pillar of retirement insurance. A person has to choose the obligatory pension fund within 6 months of the date of employment.</p> <p><i>Agency: Croatian Institute for Pension Insurance (HZMO) and Croatian Institute for Health Insurance (HZZO)</i></p>	<p>Less than one day (online procedure, simultaneous with previous procedure)</p>	<p>no charge</p>

* Takes place simultaneously with another procedure.

Note: Online procedures account for 0.5 days in the total time calculation.

Source: Doing Business database.

DEALING WITH CONSTRUCTION PERMITS

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

What do the indicators cover?

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

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, *Doing Business* uses several assumptions about the business and the warehouse, including the utility connections.

The business:

- Is a limited liability company operating in the construction business and located in the largest business city. For the 11 economies with a population of more than 100 million, data for a second city have been added. Is domestically owned and operated.
- Has 60 builders and other employees.

The warehouse:

- Is valued at 50 times income per capita.
- Is a new construction (there was no previous construction on the land).

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

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day. 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

- Will have complete architectural and technical plans prepared by a licensed architect or engineer.
- Will be connected to water and sewerage (sewage system, septic tank or their equivalent). The connection to each utility network will be 150 meters (492 feet) long.
- Will be used for general storage, such as of books or stationery (not for goods requiring special conditions).
- Will take 30 weeks to construct (excluding all delays due to administrative and regulatory requirements).

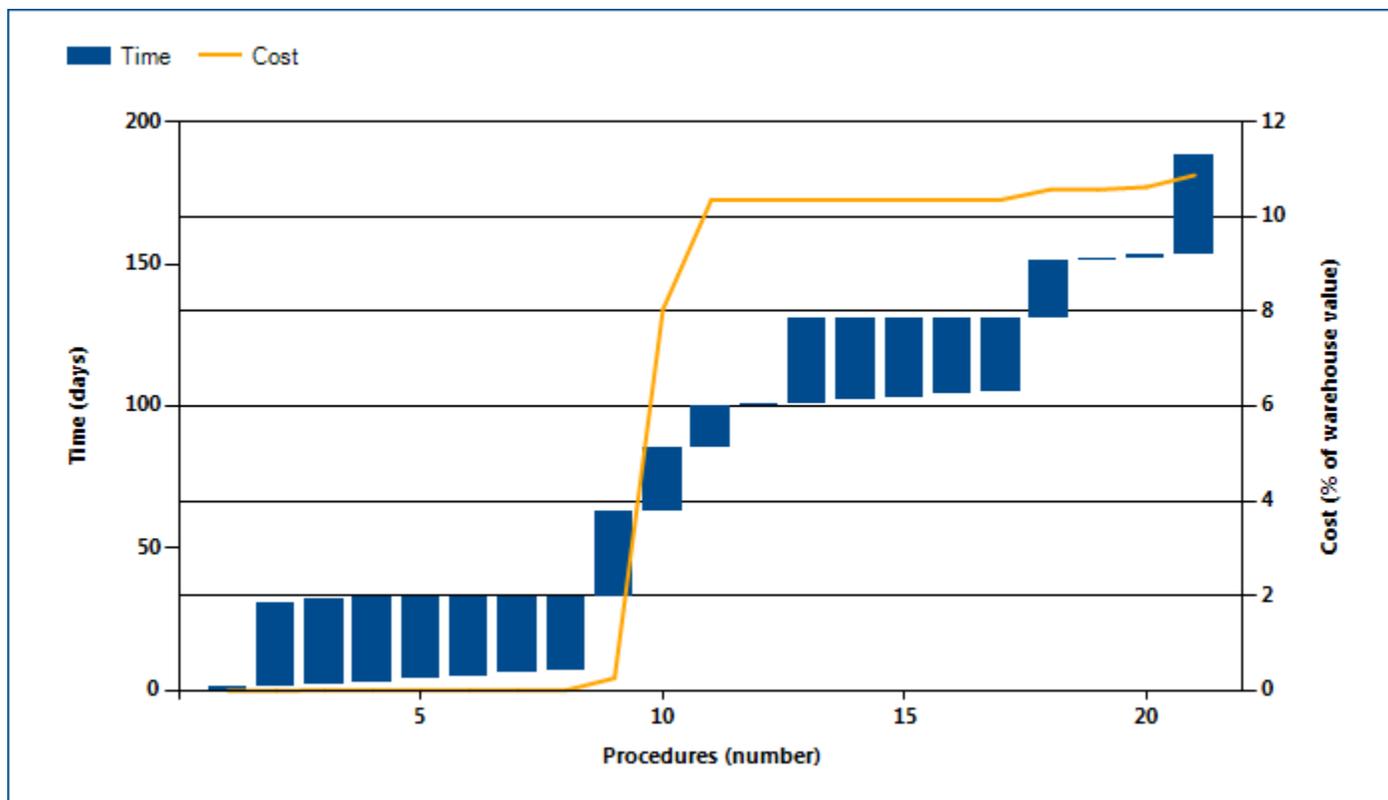
DEALING WITH CONSTRUCTION PERMITS

Where does the economy stand today?

What does it take to comply with the formalities to build a warehouse in Croatia? According to data collected by *Doing Business*, dealing with construction permits there requires 21.0 procedures, takes 188.0 days and costs 10.9% of the warehouse value (figure 3.1). Most indicator sets refer to a case scenario in the largest

business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

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



Note: Time shown in the figure above may not reflect simultaneity of procedures. Online procedures account for 0.5 days in the total time calculation. For more information on the methodology of the dealing with construction permits indicators, see the *Doing Business* website (<http://www.doingbusiness.org>). For details on the procedures reflected here, see the summary at the end of this chapter.

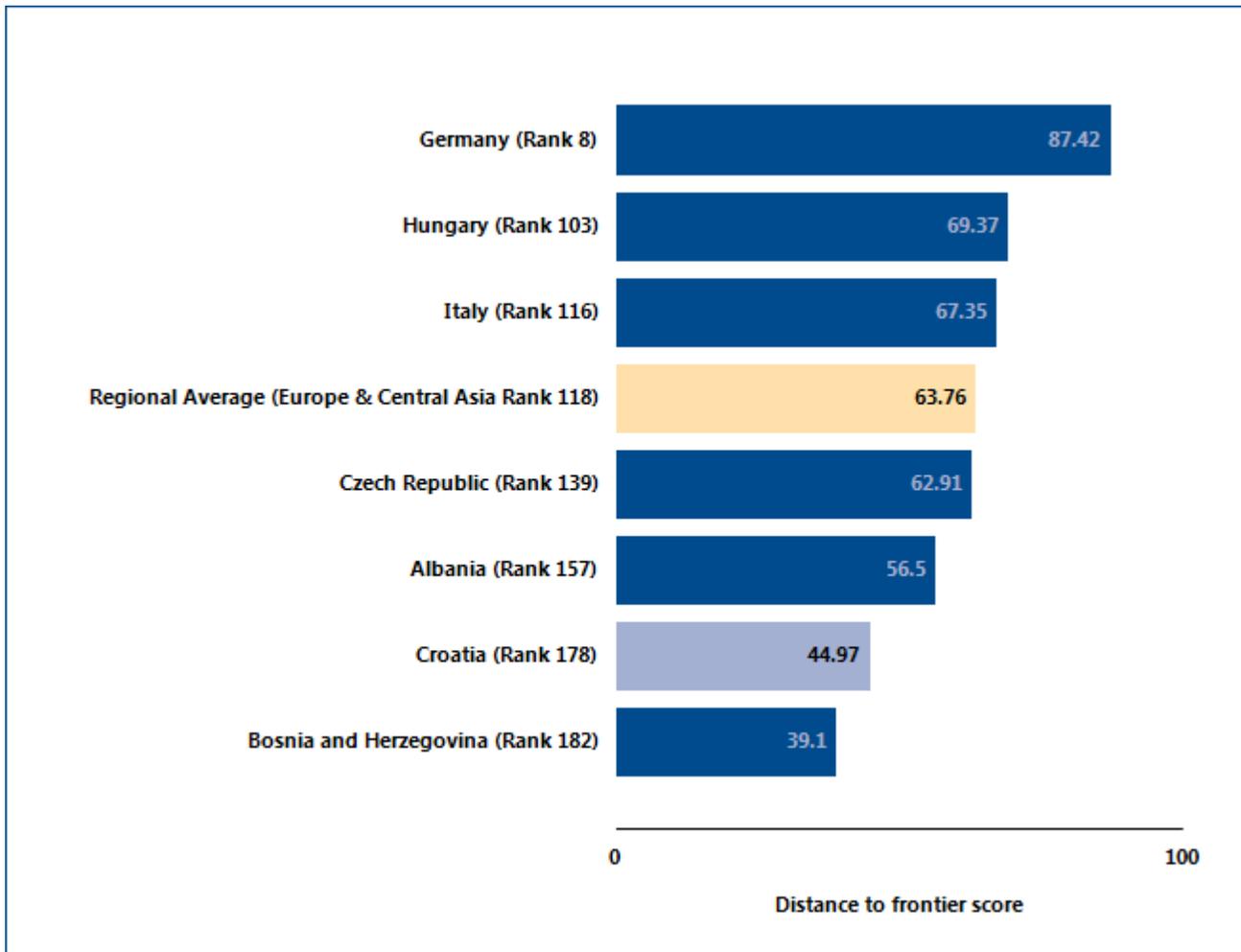
Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

Globally, Croatia stands at 178 in the ranking of 189 economies on the ease of dealing with construction permits (figure 3.2). The rankings for comparator

economies and the regional average ranking provide other useful information for assessing how easy it is for an entrepreneur in Croatia to legally build a warehouse.

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



Source: Doing Business database.

DEALING WITH CONSTRUCTION PERMITS

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

an effort to ensure building safety while keeping compliance costs reasonable, governments around the world have worked on consolidating permitting requirements. What construction permitting reforms has *Doing Business* recorded in Croatia (table 3.1)?

Table 3.1 How has Croatia made dealing with construction permits easier—or not?

By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2010	Croatia improved its construction permitting process through the operation of a one-stop shop and enforcement of the building code.
DB2011	Croatia replaced the location permit and project design confirmation with a single certificate, simplifying and speeding up the construction permitting process.
DB2015	Croatia made dealing with construction permits easier by reducing the requirements and fees for building permits and carrying out the final building inspection more promptly.

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

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

What are the details?

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

BUILDING A WAREHOUSE

Estimated cost of construction : **HRK 3,760,264**

City : **Zagreb**

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

Table 3.2 Summary of time, cost and procedures for dealing with construction permits in Croatia -

No.	Procedure	Time to complete	Cost to complete
1	<p>Request and obtain list of Special Conditions needed for construction</p> <p>BuildCo must obtain a list of preliminary approvals that will be required from various authorities based on preliminary project design drawings and documents. This can be obtained from the municipality for a small administrative fee of 20 HRK.</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	1 day	HRK 20
2	<p>Obtain notification on conditions from the Inspectorate for Fire at the Ministry of Interior Affairs</p> <p>BuildCo must obtain preliminary approvals from various authorities. Such approvals are issued based on the preliminary project design drawings and other documents. They must be obtained prior to applying for the building permit; however these applications can be filed simultaneously.</p> <p>While the new Building Act of 2014 stipulates that silence is consent from agencies after 15 days, in practice, contractors would need to follow up with agencies if there has been no response. While agencies have improved their response time, usually to less than 15 days, most of the time further adjustments and corrections are required, leading to a longer time for obtaining approvals.</p> <p><i>Agency: Inspectorate for Fire at the Ministry of Interior Affairs</i></p>	30 days	no charge

No.	Procedure	Time to complete	Cost to complete
3	<p>* Obtain notification on conditions from National Croatian Electric Grid</p> <p>BuildCo must obtain preliminary approvals from various authorities. Such approvals are issued based on the preliminary project design drawings and other documents. They must be obtained prior to applying for the building permit; however these applications can be filed simultaneously.</p> <p>While the new Building Act of 2014 stipulates that silence is consent from agencies after 15 days, in practice, contractors would need to follow up with agencies if there has been no response. While agencies have improved their response time, usually to less than 15 days, most of the time further adjustments and corrections are required, leading to a longer time for obtaining approvals.</p> <p><i>Agency: National Croatian Electric Grid</i></p>	30 days	HRK 225
4	<p>* Obtain notification on conditions from waste collection department</p> <p>BuildCo must obtain preliminary approvals from various authorities. Such approvals are issued based on the preliminary project design drawings and other building documents. They must be obtained prior to applying for the building permit; however these applications can be filed simultaneously.</p> <p>While the new Building Act of 2014 stipulates that silence is consent from agencies after 15 days, in practice, contractors would need to follow up with agencies if there has been no response. While agencies have improved their response time, usually to less than 15 days, most of the time further adjustments and corrections are required, leading to a longer time for obtaining approvals.</p> <p><i>Agency: Waste Collection Department</i></p>	30 days	no charge
5	<p>* Obtain notification on conditions from the Local Water Authority</p> <p>BuildCo must obtain preliminary approvals from various authorities. Such approvals are issued based on the preliminary project design drawings and other documents. They must be obtained prior to applying for the building permit; however these applications can be filed simultaneously.</p> <p>While the new Building Act of 2014 stipulates that silence is consent from agencies after 15 days, in practice, contractors would need to follow up with agencies if there has been no response. While agencies have improved their response time, usually to less than 15 days, most of the time further adjustments and corrections are required, leading to a longer time for obtaining approvals.</p> <p><i>Agency: Local Water Authority</i></p>	14 days	no charge

No.	Procedure	Time to complete	Cost to complete
6	<p>* Obtain excerpt from the Land Registry for subject and bordering lands</p> <p>According to the new building code, The Building Act, which was passed December 6, 2013, the warehouse would no longer require a location permit. However, the excerpt from the Land Registry would still be required for the building permit application as evidence of the legal interest to build.</p> <p>Land Registry Department of the Municipal Court in Zagreb has transferred a significant portion of Land Registry data into electronic form, as a result, excerpts can be obtained immediately upon request or in a shorter term. Also, as the backlog of cases has reduced due to increased number of staff and other reform efforts, general improvements in the efficiency of the Land Registry Department in Zagreb can be noted. The procedure takes now on average 1 day.</p> <p>Preliminary information is available online for applicants to review. While the documents are currently available for viewing online, they are not accepted as official documentation at this time.</p> <p>If the investor in the construction is not the owner of the land, according to The Building Act of 2013, there are other newly acceptable ways to prove legal interest, including contracts and written approval from the owner.</p> <p><i>Agency: Land Registry</i></p>	1 day	HRK 20
7	<p>* Obtain possession list for subject and bordering lands</p> <p>BuildCo must obtain a list of the owners of the bordering lands, which will be used to notify the proper individuals during the building permit review process.</p> <p><i>Agency: County Office (Cadastral and Geodetic Activities)</i></p>	1 day	HRK 70
8	<p>* Obtain copy of cadastre plan</p> <p>This copy can be obtained from the County Office for Cadastre and Geodetic Activities and now only takes 1 day. Previously it used to take 1 week.</p> <p><i>Agency: County Office (Cadastral and Geodetic Activities)</i></p>	1 day	HRK 110
9	<p>Request and receive building permit</p> <p><i>Agency: Municipal Authority</i></p>	30 days	HRK 9,471

No.	Procedure	Time to complete	Cost to complete
10	<p>Obtain decision from the Municipal Authority regarding utilities</p> <p>BuildCo must obtain a decision from the Municipal Authority on utility fees, based on the construction permit. The amount of the fee depends on the building size (in cubic meters) and on the location. Zagreb is divided into four zones for the purposes of communal fee calculations. The communal fee is set from HRK 56 to HRK 118 per cubic meter of a building, depending on the zone. The Doing Business case study warehouse would be located in Zagreb zone III, with the communal fee set at HRK 75 per cubic meter. The fee can be paid in full or in installments.</p> <p>According to Regulation on Procedure of Determining Volume of Buildings for Communal Fee Calculation currently in force, the volume of the building is used, and as for the warehouse used in the Doing Business case study, the volume of the warehouse is 3901.5 cubic meters. Therefore the cost is $3901.5 * \text{HRK } 75$.</p> <p><i>Agency: Municipal Authority</i></p>	22 days	HRK 292,635
11	<p>Pay water contribution to the state company Croatian Waters (Hrvatske Vode)</p> <p>The water contribution is paid to finance the management of water resources and protection from floods. The cost is determined based on the following:</p> <ul style="list-style-type: none"> (i) The zone the new construction is in. Zone A is Zagreb and the protected coastal area, Zone B is the rest of the country, and Zone C are areas subject to special Government care. (ii) The purpose of the construction (residential, industrial, public interest) (iii) The volume of the construction. <p>The cost for the case study warehouse is $3901.5 * \text{HRK } 26.25$ according to the fee schedule of Hrvatske Vode (www.voda.hr).</p> <p><i>Agency: Hrvatske Vode</i></p>	15 days	HRK 87,010
12	<p>Submit commencement notice</p> <p>The investor must notify the building control authority eight days before the commencement of construction. In the notification the builder must include: • Building classification • Register number • Date of issue of the building permit • List the contractor and supervising engineer • Evidence that the building plot was formed in the cadastre if the building is subject to specification of the building plot. The building control authority will then, within five days of receipt of the notification of commencement, notify the Ministry of Interior, building inspection, labor inspection, administrative body of the local self-government unit competent for determining utility charges and body competent for determining water charges, while the building inspection shall also be notified whether the notification is complete.</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	1 day	HRK 20

No.	Procedure	Time to complete	Cost to complete
13	<p>Receive clearance from the waste collection department</p> <p>There is a clearance to ensure that the building has been constructed in accordance with the conditions that were outlined for the building.</p> <p><i>Agency: Waste collection department</i></p>	30 days	no charge
14	<p>* Receive clearance from the Sanitary Inspectorate</p> <p>There is a clearance to ensure that the building has been constructed in accordance with the conditions that were outlined for the building.</p> <p><i>Agency: Sanitary Inspectorate</i></p>	24 days	HRK 70
15	<p>* Receive clearance from the Inspectorate for Fire at the Ministry of Interior Affairs</p> <p>There is a clearance to ensure that the building has been constructed in accordance with the conditions that were outlined for the building.</p> <p><i>Agency: Inspectorate for Fire at the Ministry of Interior Affairs</i></p>	3 days	no charge
16	<p>* Receive clearance from labor inspectorate regarding noise protection and work safety</p> <p>There is a clearance to ensure that the building has been constructed in accordance with conditions for safe labor practices.</p> <p><i>Agency: Labor Inspectorate</i></p>	1 day	no charge
17	<p>* Receive random inspection from the Municipality</p> <p>Inspections are random and may occur on multiple occasions throughout the construction process.</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	1 day	no charge
18	<p>Obtain water and sewage connection</p> <p><i>Agency: Water & Sewage Authority</i></p>	20 days	HRK 8,000

No.	Procedure	Time to complete	Cost to complete
19	<p>Apply for occupancy permit</p> <p>The occupancy permit is mandatory for the use of a completed building. The following documents must be submitted:</p> <ul style="list-style-type: none"> • Photocopy of the building permit or a copy of the main design for construction work • Information on the participants in the construction (investor, designer, performer of construction works, supervisory engineer) • Written statement of the contractor on works completed and the requirements for the maintenance of the construction • Final report of the supervisory engineer • Statement of the geodetic engineer that the construction work was built in accordance with the surveying design • Surveying study for entering the construction work in the cadastre or for change of information on buildings and other construction works, if the construction work is not subject to developing the surveying design, but is to be entered in the cadastre • Statement of the authorized geodetic engineer that the construction work is located on the building plot • Energy certificate of the building, if applicable <p>The Municipality forms an evaluation committee within 30 days after the submission of the application for the issuance of the occupancy permit, and determines the date of the on-site inspection. The investor submits various documents which substantiate that the construction has been conducted in accordance with the regulations (e.g., construction diary, licenses of the construction firm which executed the works, technical certificates for the material used in the construction, etc.) to the evaluation committee not later than on the day after the site inspection. If any of the members of the evaluation committee find that the building does not comply with a specific requirement, the investor may be given an additional 90 days to make the necessary corrections (if the error is, in fact, able to be corrected). If all requirements have been met, the Municipality should issue the occupancy permit within 30 days after the inspection.</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	1 day	HRK 20
20	<p>* Receive final inspection</p> <p>Within 15 to 30 days after receiving a request for the occupancy permit, a technical review team from the municipality must conduct the final inspection. In practice this happens in about a week</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	1 day	HRK 2,040
21	<p>Receive use permit</p> <p>After the on-site inspection, the municipality has up to 30 days to issue the occupancy certificate.</p> <p><i>Agency: Municipality of City of Zagreb</i></p>	35 days	HRK 9,471

No.	Procedure	Time to complete	Cost to complete

* Takes place simultaneously with another procedure.

Note: Online procedures account for 0.5 days in the total time calculation.

Source: *Doing Business* database.

GETTING ELECTRICITY

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

What do the indicators cover?

Doing Business records all procedures required for a local business to obtain a permanent electricity connection and supply for a standardized warehouse, as well as the time and cost to complete them. These procedures include applications and contracts with electricity utilities, clearances from other agencies and the external and final connection works. The ranking 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.

The warehouse:

- Is owned by a local entrepreneur, located in the economy's largest business city, in an area where other warehouses are located. For the 11 economies with a population of more than 100 million, data for a second city have been added.
- Is not in a special economic zone where the connection would be eligible for subsidization or faster service.
- Is located in an area with no physical constraints (ie. property not near a railway).
- Is a new construction being connected to electricity for the first time.
- Is 2 stories, both above ground, with a total surface of about 1,300.6 square meters (14,000 square feet), is built on a plot of 929 square meters (10,000 square feet), is used for storage of refrigerated goods

The electricity connection:

- Is 150 meters long and is a 3-phase, 4-wire Y, 140-kilovolt-ampere (kVA) (subscribed capacity) connection.

WHAT THE GETTING ELECTRICITY INDICATORS MEASURE

Procedures to obtain an electricity connection (number)

- Submitting all relevant documents and obtaining all necessary clearances and permits
- Completing all required notifications and receiving all necessary inspections
- Obtaining external installation works and possibly purchasing material for these works
- Concluding any necessary supply contract and obtaining final supply

Time required to complete each procedure (calendar days)

- Is at least 1 calendar day
- Each procedure starts on a separate day
- Does not include time spent gathering information
- Reflects the time spent in practice, with little follow-up and no prior contact with officials

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

- Official costs only, no bribes
- Excludes value added tax
- Is 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. Included only negligible length in the customer's private domain.
- Requires crossing of a 10-meter road but all the works are carried out in a public land, so there is no crossing into other people's private property.
- Involves installing one electricity meter. The monthly electricity consumption will be 26880 kilowatt hour (kWh). The internal electrical wiring has been completed.

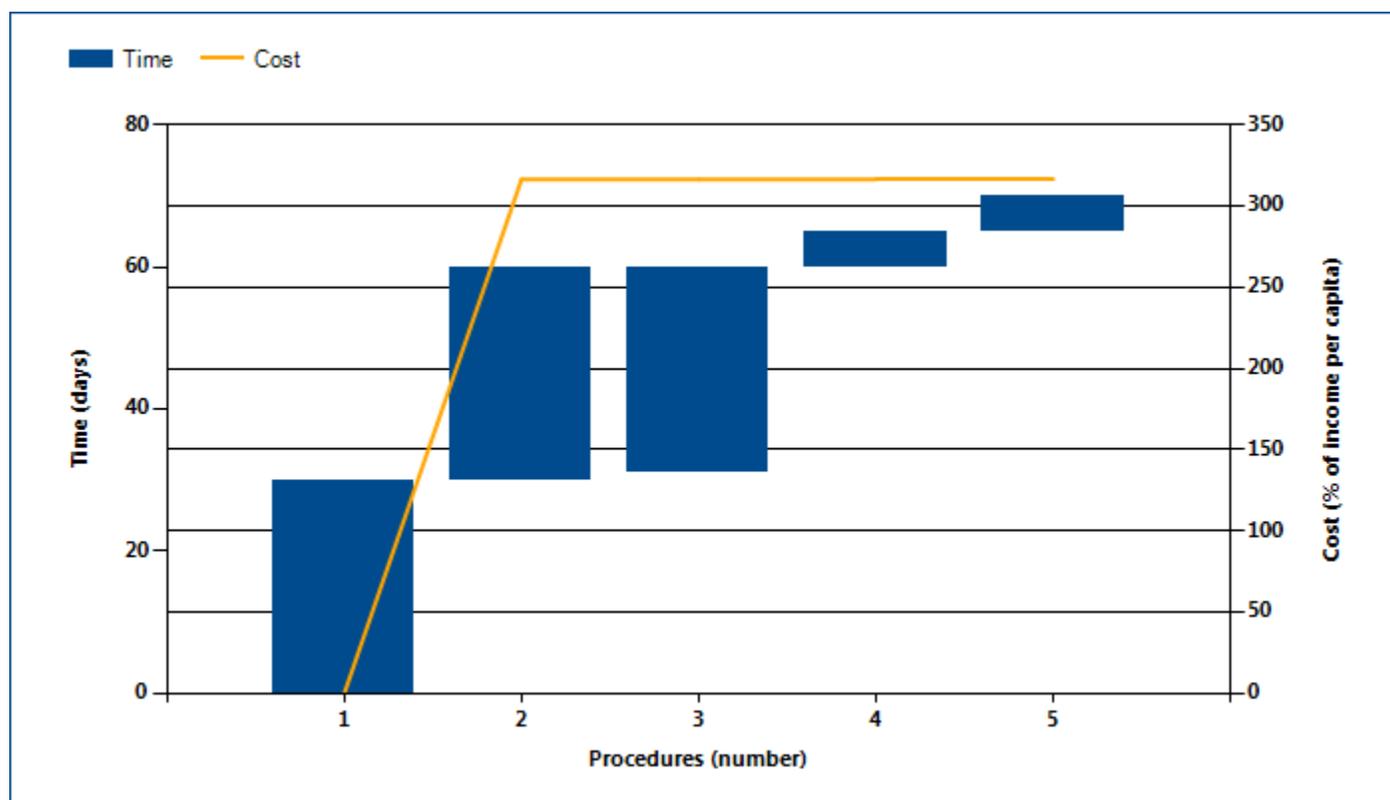
GETTING ELECTRICITY

Where does the economy stand today?

What does it take to obtain a new electricity connection in Croatia? According to data collected by *Doing Business*, getting electricity there requires 5.0 procedures, takes 70.0 days and costs 316.7% of income per capita (figure 4.1).

Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Figure 4.1 What it takes to obtain an electricity connection in Croatia -



Note: Time shown in the figure above may not reflect simultaneity of procedures. For more information on the methodology of the getting electricity indicators, see the *Doing Business* website (<http://www.doingbusiness.org>). For details on the procedures reflected here, see the summary at the end of this chapter.

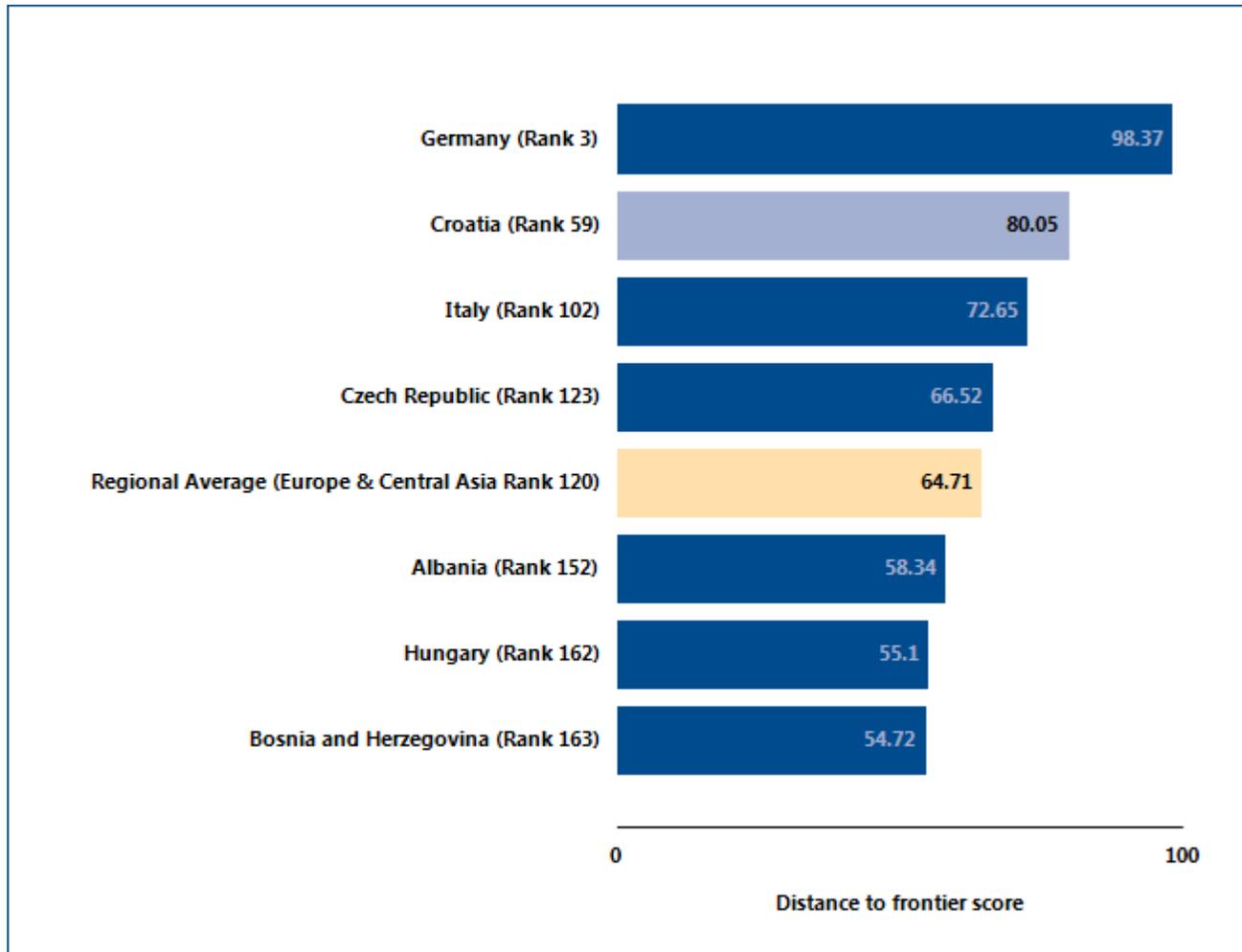
Source: *Doing Business* database.

GETTING ELECTRICITY

Globally, Croatia stands at 59 in the ranking of 189 economies on the ease of getting electricity (figure 4.2). The rankings for comparator economies and the regional

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

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



Source: Doing Business database.

GETTING ELECTRICITY

What are the details?

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

OBTAINING AN ELECTRICITY CONNECTION

Name of utility: HEP ODS

City: Zagreb

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

Table 4.2 Summary of time, cost and procedures for getting electricity in Croatia -

No.	Procedure	Time to complete	Cost to complete
1	<p>Submit application with HEP Distribution System Operator (HEP ODS) and receive preliminary connection approval and connection contract</p> <p>An application cannot be submitted online. The application can be submitted with HEP ODS. Required documents and the “Request for the issuance of energy consent and connection” are to be submitted in accordance with the General Conditions of Electricity Supply (Official Gazette, No. 14/06) Article 7. These documents do not need notarization. An external site inspection is necessary to prepare an estimate for the connection fees. The customer’s party does not have to be present, unless inevitable to carry out the inspection.</p> <p><i>Agency: HEP Distribution System Operator (HEP ODS)</i></p>	30 calendar days	HRK 0
2	<p>Accept estimate and await completion of external works by HEP Distribution System Operator (HEP ODS)</p> <p>Upon the receipt of the application for the preliminary connection approval/the connection, the contract will be sent to the customer with details of the connection condition and charges. The terms of the connection contract (the estimate) are accepted by signing the contract and returning it to HEP DSO with the payment plus any other documentation specified in the preliminary connection approval. The work will start in accordance with the preliminary connection approval/the connection contract upon receipt of the signed connection contract and payment. HEP DSO designs the process and draws up the required investment technical documentation. External connection works include supply and installation of a connection cubicle, a meter, a tariff switch unit or a time switch and a limiter switch or some other demand</p>	30 calendar days	HRK 238,000

No.	Procedure	Time to complete	Cost to complete
	<p>controller. The meter is installed in parallel with the connection process carried out by the Maintenance Department. Connection to the electric power network is possible after the customer concluded a supply contract with a chosen supplier and a use of network contract with HEP DSO. The utility will not do the final connection (flow of electricity) if the customer does not have a supply contract yet.</p> <p><i>Agency: HEP ODS</i></p>		
3	<p>* Conclude supply agreement</p> <p>After the preliminary connection approval has been issued to the customer and before the final connection, the customer should conclude a supply and use of network contract. When providing a quotation it is practice to advise the customer that he needs to nominate a supplier before the connection can be made and preferably before accepting the quotation. It is advisable that the customer appoints and signs a contract with an electricity supplier at least 20 days before the date the customer wants electricity to flow.</p> <p><i>Agency: HEP Supply</i></p>	5 calendar days	HRK 0
4	<p>Submit internal wiring certificate with HEP Distribution System Operator (HEP ODS) and request energizing the connection</p> <p>After external and internal connection work has been completed, the customer visits HEP ODS office to arrange a time and method for energizing the connection. The customer has to submit the application for the issuance of the connection approval and for connection. The application form can be found on the website. Information required in this form and in the procedure for the issuance of the connection approval and for connection is the building permit number, category of consumer, the building permit, confirmation from the contractor (Electrical Completion Certificate) that the customer or a producer's electric facilities and installations have been built and tested in accord with the preliminary connection approval, design documentation and technical regulations and standards, with an explicit statement of the contractor that the said facilities and installations may be connected to the network and the required test of quality. At the request of the application for issuance of connection approval and for connection, HEP ODS issues and the customer obtains the connection approval.</p> <p><i>Agency: HEP ODS</i></p>	5 calendar days	HRK 184.43

No.	Procedure	Time to complete	Cost to complete
5	<p>HEP Distribution System Operator (HEP ODS) will come to open the meter</p> <p>An authorized person from HEP ODS will come to open the meter and electricity starts flowing. Before electricity starts flowing, the customer should provide all the forms related to the connection.</p> <p><i>Agency: HEP ODS</i></p>	5 calendar days	HRK 0

* Takes place simultaneously with another procedure.

Source: *Doing Business* database.

REGISTERING PROPERTY

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

What do the indicators cover?

Doing Business records the full sequence of procedures necessary for a business to purchase property from another business and transfer the property title to the buyer's name. The transaction is considered complete when it is opposable to third parties and when the buyer can use the property, use it as collateral for a bank loan or resell it. The ranking 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.
- Are located in the economy's largest business city².
- 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.
- Is registered in the land registry or cadastral, or both, and is free of title disputes.
- Property will be transferred in its entirety.

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 city²

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

- 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.

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

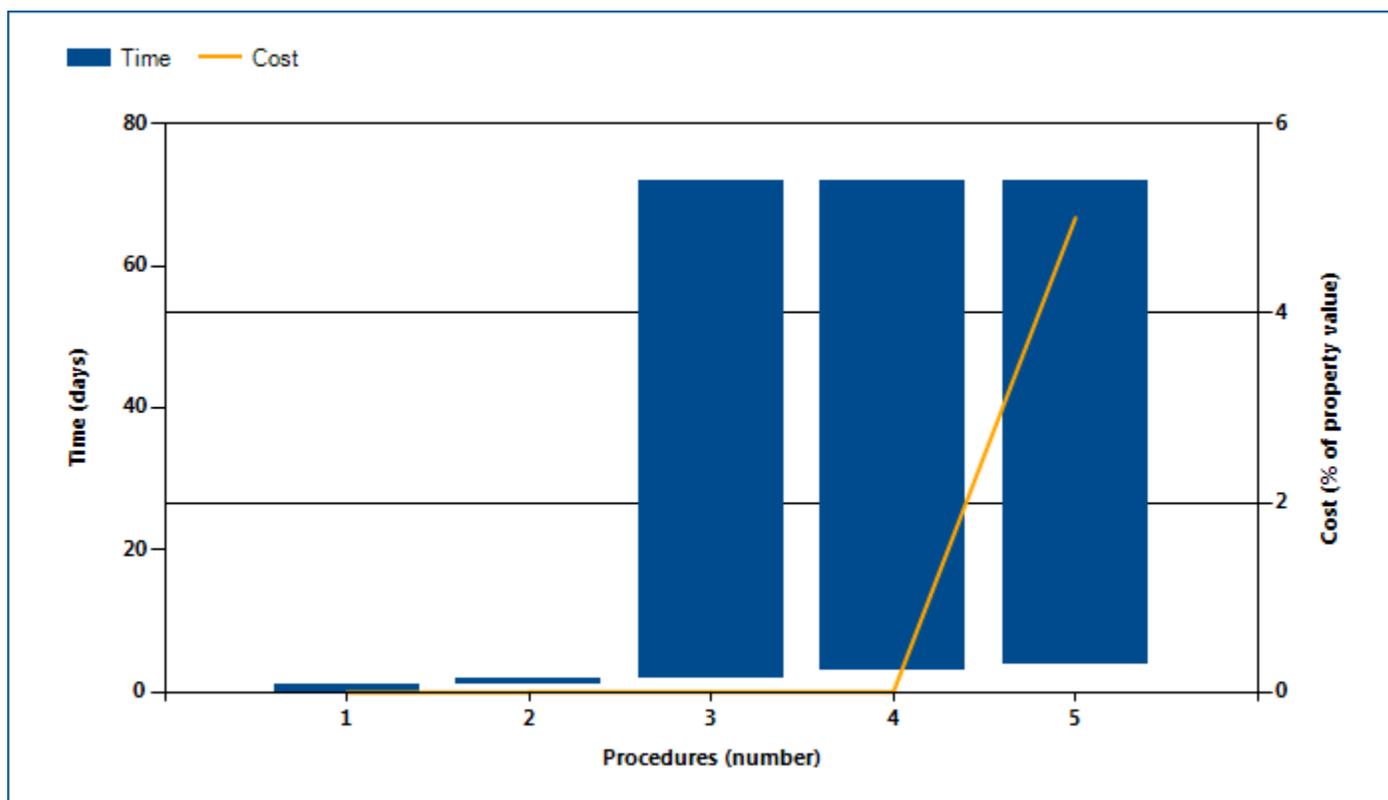
REGISTERING PROPERTY

Where does the economy stand today?

What does it take to complete a property transfer in Croatia? According to data collected by *Doing Business*, registering property there requires 5.0 procedures, takes 72.0 days and costs 5.0% of the property value (figure 5.1).

Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Figure 5.1 What it takes to register property in Croatia -



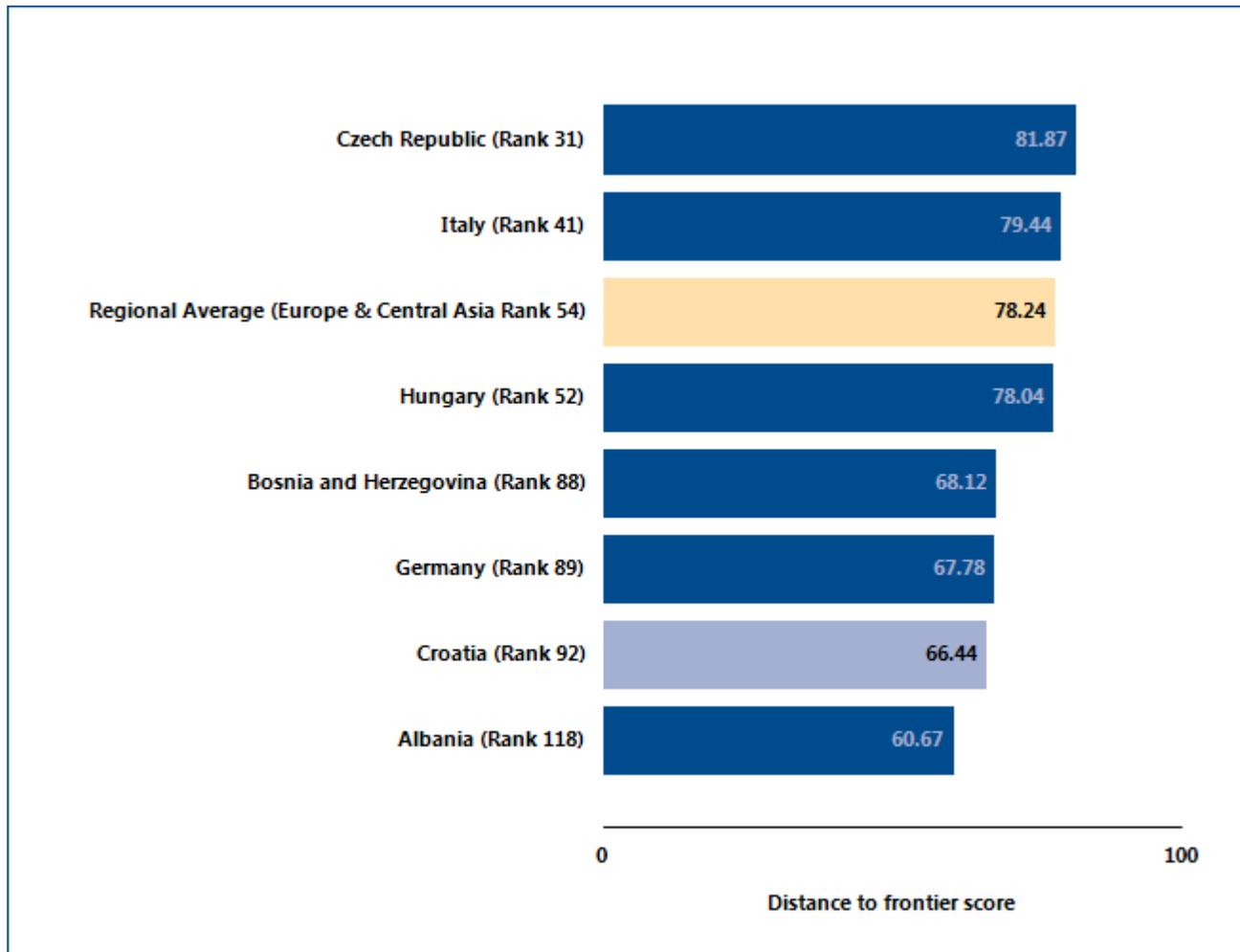
Note: Time shown in the figure above may not reflect simultaneity of procedures. Online procedures account for 0.5 days in the total time calculation. For more information on the methodology of the registering property indicators, see the *Doing Business* website (<http://www.doingbusiness.org>). For details on the procedures reflected here, see the summary at the end of this chapter.
Source: *Doing Business* database.

REGISTERING PROPERTY

Globally, Croatia stands at 92 in the ranking of 189 economies on the ease of registering property (figure 5.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

REGISTERING PROPERTY

What are the details?

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

STANDARD PROPERTY TRANSFER

Property value: HRK 3,760,264

City: Zagreb

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

Table 5.2 Summary of time, cost and procedures for registering property in Croatia

No.	Procedure	Time to complete	Cost to complete
1	<p>Obtain the land registry extract from the competent land register court</p> <p>Obtaining a land registry extract has become a crucial part during the preparation process for the purchase of a real estate, since the land registry extract enjoys public faith.</p> <p>Due diligence requires that the buyer knows the status of the land registry. Not knowing it can also result in conflicts on the property.</p> <p>The extract must be stamped by the Land Register Court in order to be verified. This usually does not take more than one day.</p> <p>Croatia has been in the process of computerizing the Registry. This process is still in its early stages. As the process of computerizing the registry is progressing, the number of properties for which data are available online and electronic Land Registry Extracts can be obtained is notably increasing.</p> <p>Parties can obtain an electronic Land Registry Extract for a property that has been entered in the database. However, electronic extracts are not considered official extracts when it comes to using them for collateral purposes. Only Extracts obtained in paper directly in the Land Registry, have the legal power; the same applies for the cadastre extracts.</p> <p>The digital Land Registry can be accessed through: http://e-izvadak.pravosudje.hr/mpweb/main.jsp</p> <p>E-Cadastre also enables online insight into the legal status properties in Croatia, according to the number of land plot and cadastral municipality data. (http://katastar.hr/dgu/ind.php)</p>	1 day	HRK 20 per extract

No.	Procedure	Time to complete	Cost to complete
	<p>There are 64 municipal courts that have in total 109 Land registry offices in all of Croatia.</p> <p><i>Agency: Municipal Court Zagreb, Land Registry Department</i></p>		
2	<p>Notary notarizes the sale contract</p> <p>The sale contract contains a <i>clausula intabulandi</i> (i.e. the declaration by the seller that the purchaser may be entered in the land register) and is prepared by parties or by the lawyer. Pursuant to the Croatian law on Ownership and Other Property Rights and Land Registry Act (OG 55/13) it is defined that for the transfer of the property there is only a signature by the person whose rights have been restricted, encumbered, terminated or conveyed to another person (Article 52). In accordance to this law, the public notary verifies signature of the seller (the party whose property right will be terminated by the contract).</p> <p>The notary is authorized to obtain official extracts from the Company registrar, maintained by the Commercial Courts. If the lawyer prepares the sale contract, it will cost about 1.25% of the property price (plus 25% VAT according to changes and amendments to the Law on Taxation of Real Estate which entered into force on 1 March 2011-Official Gazette No. 22/11) for properties with the value above HRK 500,000. For lower values, there is a fixed fee on a scale. In addition to that, according to the Lawyers' Fee Schedule and Cost Compensation, for drafting the sales contract, the lawyer is entitled to the remuneration calculated according to the value of the propriety increased by 25 %. Further on, the lawyer's fee is increased by VAT (25%) and the expenses incurred while rendering these services. The documentation shall include: Land register extract (obtained in Procedure 1).</p> <p><i>Agency: Notary</i></p>	1 day	HRK 47 per signature verified by public notary (2 signatures required)
3	<p>Register the title transfer at the Land Registry Court</p> <p>The request for the property registration must be submitted to the Registry by the parties on the appropriate registration form approved by the Ministry of Justice. However, the request shall not be rejected just because it was not submitted on the prescribed registration form. The time it takes depends on the complexity of the case and the qualifications of the registry staff, but usually a straightforward case should take about one year. The participation of an attorney is not mandatory, but if one is involved, his fees will be about 0.5% of the property value. The Registry conducts the registration Procedure and renders the decision issuing the property title. The process of recording the sale agreement with the competent land register court takes around 140 days, when the proceedings are conducted by an experienced</p>	60-80 days	To be paid in procedure 5

No.	Procedure	Time to complete	Cost to complete
	<p>lawyer. Depending on the various courts, this process may take even longer. It should be highlighted that only the final decision, the one allowing the registration, produces the legal effect. However, regardless of the time when the final decision is rendered, the date of applying for registration will be the date marked in the Registry as the moment of transferring the ownership title. From that moment the party is protected towards all applications submitted afterwards. This rule is called the rule of priority: the buyer has the legal right to dispose of the property (to sell, lease, bequeath, transfer by gift, and mortgage the property). From that moment until the final registration the buyer has "quasi ownership". Therefore, even before the registration is completed, the first buyer - quasi owner can sell the property to another, second buyer. However there is a risk if the final registration of the first buyer - quasi owner is not allowed. In that case he will be liable for damage towards the second buyer. In practice the other contractual party will probably not be willing to enter into the legal transactions with the person who is not the legal owner of the real-estate in question (or take the risk). From 2004 the Court no longer accepts incomplete applications. If the registration form contains certain deficiencies, the court will not invite the applicant to correct the request but will immediately dismiss the application. The applicant may submit a new request, which will then have a lower rank. This has resulted in some reduction of backlog at the Courts and has also led to higher demand for professional assistance with the application process. Furthermore, changes in 2005 entrust the Land Registry clerks with the authority to decide on applications, with judges deciding on appeals. With registration moving from a judicial process to a more administrative process, this is a welcome change that indicates potential for decreasing the amount of time for registration. Recent internal reorganization of the Land Books also indicates future potential for increased efficiency. The documentation shall include: (i) Notarized sale agreement (ii) Application form (iii) Certified copy of an ID or a passport (iv) Personal Identification Number (OIB) (required since January 1, 2009, Land registry Act of December 18, 2009).</p> <p><i>Agency: Land Register Court (land registry office)</i></p>		
4	<p>* Submit the sale contract to the municipal tax administration to receive an estimate of the land transfer taxes</p> <p>The buyer shall submit the sale agreement to the tax administration on the City/Municipality level for payment of land transfer taxes. The tax administration passes a decision on the amount of taxes payable within 30 days and sends this decision to the address of the person who submitted the sale agreement. Along with this decision of the tax administration, a payment slip is attached, with the amount of the tax due, and with the bank account number indicated. The notary public shall also report the sale agreement to the tax administration on the City/Municipality level for payment of land transfer taxes. While the buyer has the legal obligation to deliver the contract of sale to the tax authority within 30 days as of the conclusion of the sale agreement, the</p>	30 days	no cost

No.	Procedure	Time to complete	Cost to complete
	<p>notary is obliged to deliver the sale agreement to the tax authority within 15 days of the month in which the certification of signatures took place. Within 15 days upon receipt of the tax assessment notice, the buyer shall pay the real property transfer tax. In the event of a default by the buyer, the tax authority can hold the seller jointly liable for the payment of this tax, provided that the seller assumed the contractual obligation to pay the tax. If the buyer does not notify the tax office of all circumstances regarding the real property transaction that are relevant for the proper assessment of the real property transfer tax, he shall be subject to penalties in an amount ranging from HRK 500 up to HRK 200,000. If the buyer does not pay the tax, it will not prevent the right to register the ownership.</p> <p><i>Agency: Municipal Tax Administration</i></p>		
5	<p>* Pay land transfer taxes, stamp duty and registration fees at the commercial bank or post office</p> <p>The fees and taxes can be paid in the post offices or in the commercial banks, but only to the indicated State Budget bank account number.</p> <p><i>Agency: Commercial Bank or Post Office</i></p>	1 day	HRK 50 (stamp duty) + HRK 200 (registration fee) + 5% of property value (real property transfer tax)

* Takes place simultaneously with another procedure.

Note: Online procedures account for 0.5 days in the total time calculation.

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 2015* 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)³

Rights of borrowers and lenders through collateral laws

Protection of secured creditors' rights through bankruptcy laws

Depth of credit information index (0–8)⁴

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.

³ For the legal rights index, 2 new points are added in *Doing Business 2015* for new data collected to assess the overall legal framework for secured transactions and the functioning of the collateral registry.

⁴ For the credit information index, 2 new points are added in *Doing Business 2015* for new data collected on accessing borrowers' credit information online and availability of credit scores.

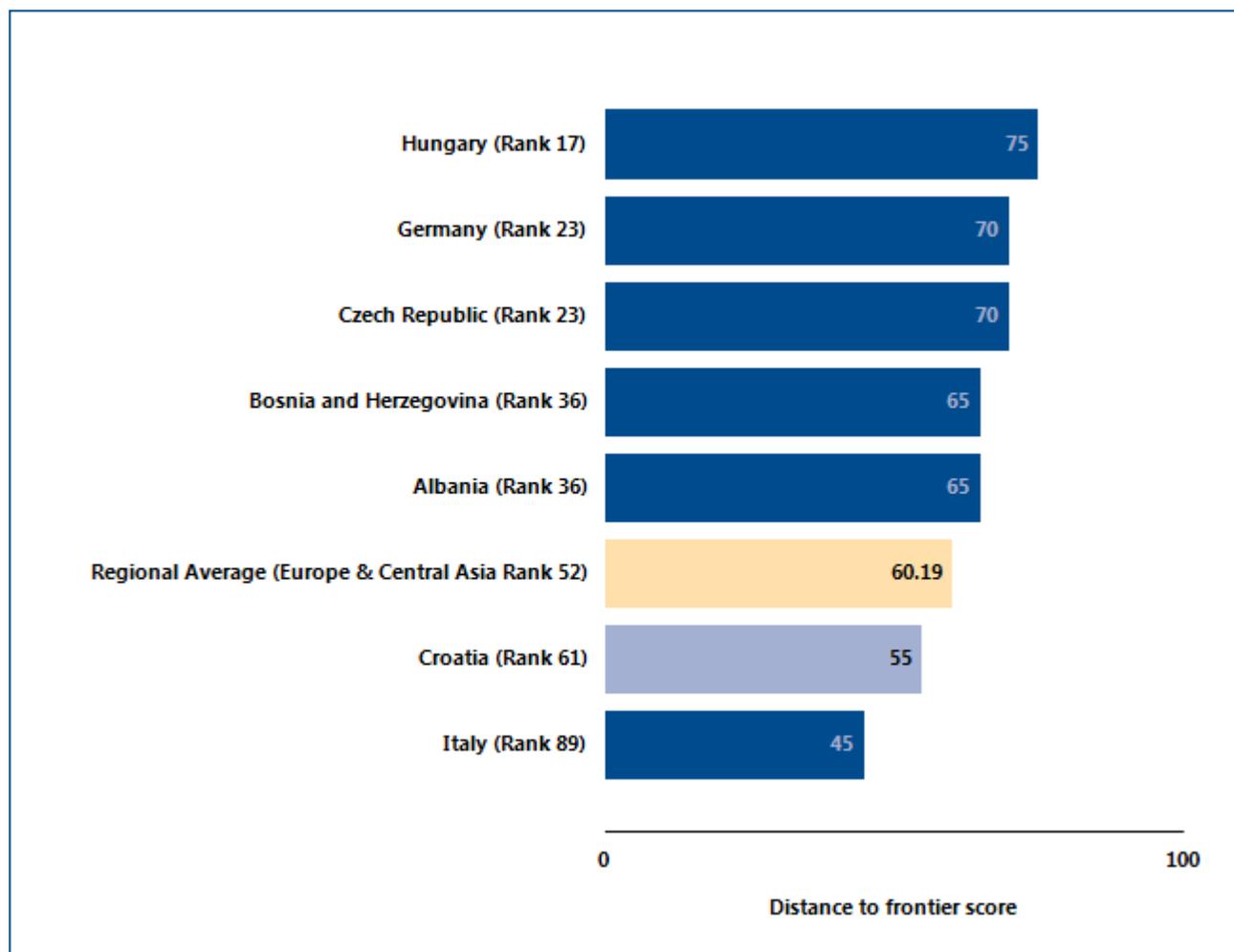
GETTING CREDIT

Where does the economy stand today?

How well do the credit information system and collateral and bankruptcy laws in Croatia facilitate access to credit? The economy has a score of 6 on the depth of credit information index and a score of 5 on the strength of legal rights index (see the summary of scoring at the end of this chapter for details). Higher scores indicate more credit information and stronger legal rights for borrowers and lenders.

Globally, Croatia stands at 61 in the ranking of 189 economies on the ease of getting credit (figure 6.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how well regulations and institutions in Croatia support lending and borrowing.

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



Source: Doing Business database.

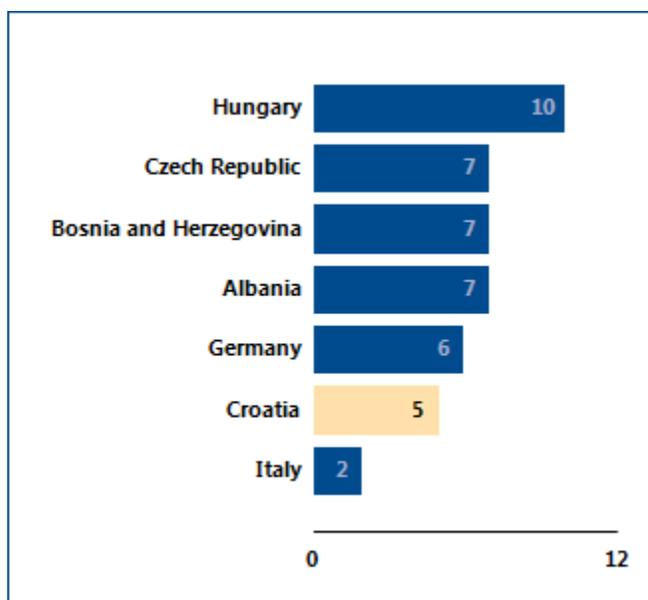
GETTING CREDIT

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

rights index for Croatia and shows the scores for comparator economies as well as the regional average score. Figure 6.3 shows the same for the depth of credit information index.

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

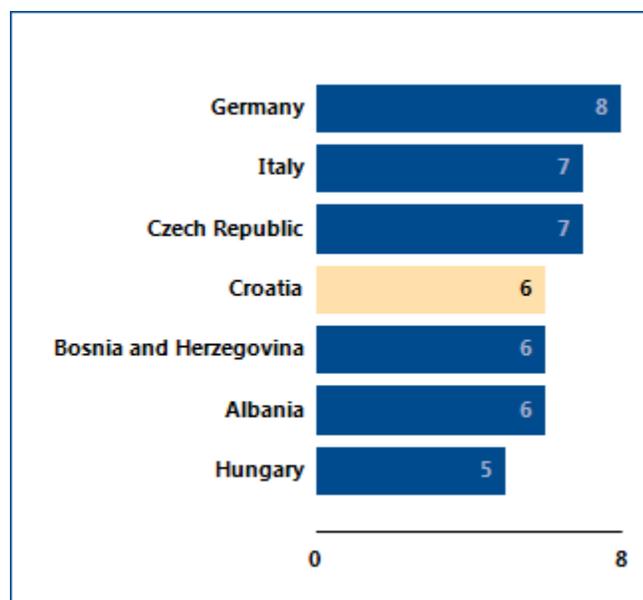
Economy scores on strength of legal rights index



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?

Economy 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

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 Croatia (table 6.1)?

Table 6.1 How has Croatia made getting credit easier—or not?
By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2012	In Croatia the private credit bureau started to collect and distribute information on firms, improving the credit information system.

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

Source: *Doing Business* database.

GETTING CREDIT

What are the details?

The getting credit indicators reported here for Croatia are based on detailed information collected in that economy. The data on credit information sharing are collected through a survey of a credit registry and/or credit bureau (if one exists). To construct the depth of credit information index, a score of 1 is assigned for each of 8 features of the credit registry or credit bureau (see summary of scoring below).

The data on the legal rights of borrowers and lenders are gathered through a survey of financial lawyers and verified through analysis of laws and regulations as well as public sources of information on collateral and bankruptcy laws. For the strength of legal rights index, a score of 1 is assigned for each of 10 aspects related to legal rights in collateral law and 2 aspects in bankruptcy law.

Strength of legal rights index (0–12)	Index score: 5
Does an integrated or unified legal framework for secured transactions that extends to the creation, publicity and enforcement of functional equivalents to security interests in movable assets exist in the economy?	No
Does the law allow businesses to grant a non possessory security right in a single category of movable assets, without requiring a specific description of collateral?	No
Does the law allow businesses to grant a non possessory security right in substantially all of its assets, without requiring a specific description of collateral?	Yes
May a security right extend to future or after-acquired assets, and may it extend automatically to the products, proceeds or replacements of the original assets?	No
Is a general description of debts and obligations permitted in collateral agreements; can all types of debts and obligations be secured between parties; and can the collateral agreement include a maximum amount for which the assets are encumbered?	Yes
Is a collateral registry in operation for both incorporated and non-incorporated entities, that is unified geographically and by asset type, with an electronic database indexed by debtor's name?	Yes
Does a notice-based collateral registry exist in which all functional equivalents can be registered?	No
Does a modern collateral registry exist in which registrations, amendments, cancellations and searches can be performed online by any interested third party?	No
Are secured creditors paid first (i.e. before tax claims and employee claims) when a debtor defaults outside an insolvency procedure?	No
Are secured creditors paid first (i.e. before tax claims and employee claims) when a business is liquidated?	Yes
Are secured creditors subject to an automatic stay on enforcement when a debtor enters a court-supervised reorganization procedure? Does the law protect secured creditors' rights by providing clear grounds for relief from the stay and/or sets a time limit for it?	No

Strength of legal rights index (0–12)	Index score: 5
Does the law allow parties to agree on out of court enforcement at the time a security interest is created? Does the law allow the secured creditor to sell the collateral through public auction and private tender, as well as, for the secured creditor to keep the asset in satisfaction of the debt?	Yes

Depth of credit information index (0–8)	Credit bureau	Credit registry	Index score: 6
Are data on both firms and individuals distributed?	Yes	No	1
Are both positive and negative credit data distributed?	Yes	No	1
Are data from retailers or utility companies - in addition to data from banks and financial institutions - distributed?	No	No	0
Are at least 2 years of historical data distributed? (Credit bureaus and registries that distribute more than 10 years of negative data or erase data on defaults as soon as they are repaid obtain a score of 0 for this component.)	Yes	No	1
Are data on loan amounts below 1% of income per capita distributed?	Yes	No	1
By law, do borrowers have the right to access their data in the credit bureau or credit registry?	Yes	No	1
Can banks and financial institutions access borrowers' credit information online (for example, through an online platform, a system-to-system connection or both)?	Yes	No	1
Are bureau or registry credit scores offered as a value-added service to help banks and financial institutions assess the creditworthiness of borrowers?	No	No	0

Note: Prior to *Doing Business 2015*, the depth of credit information index covered only the first 6 features listed above. An economy receives a score of 1 if there is a "yes" to either bureau or registry. 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.

Coverage	Credit bureau (% of adults)	Credit registry (% of adults)
Number of firms	132,842	0
Number of individuals	3,188,540	0
Percent of total	100.0	0.0

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)

Sum of the extent of disclosure, extent of director liability and ease of shareholder indices, divided by 3

Extent of shareholder rights index (0-10.5)

Shareholders' rights and role in major corporate decisions

Strength of governance structure index (0-10.5)

Governance safeguards protecting shareholders from undue board control and entrenchment

Extent of corporate transparency index (0-9)

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

Extent of shareholder governance index (0–10)

Sum of the extent of shareholders rights, strength of governance structure and extent of corporate transparency indices, divided by 3

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

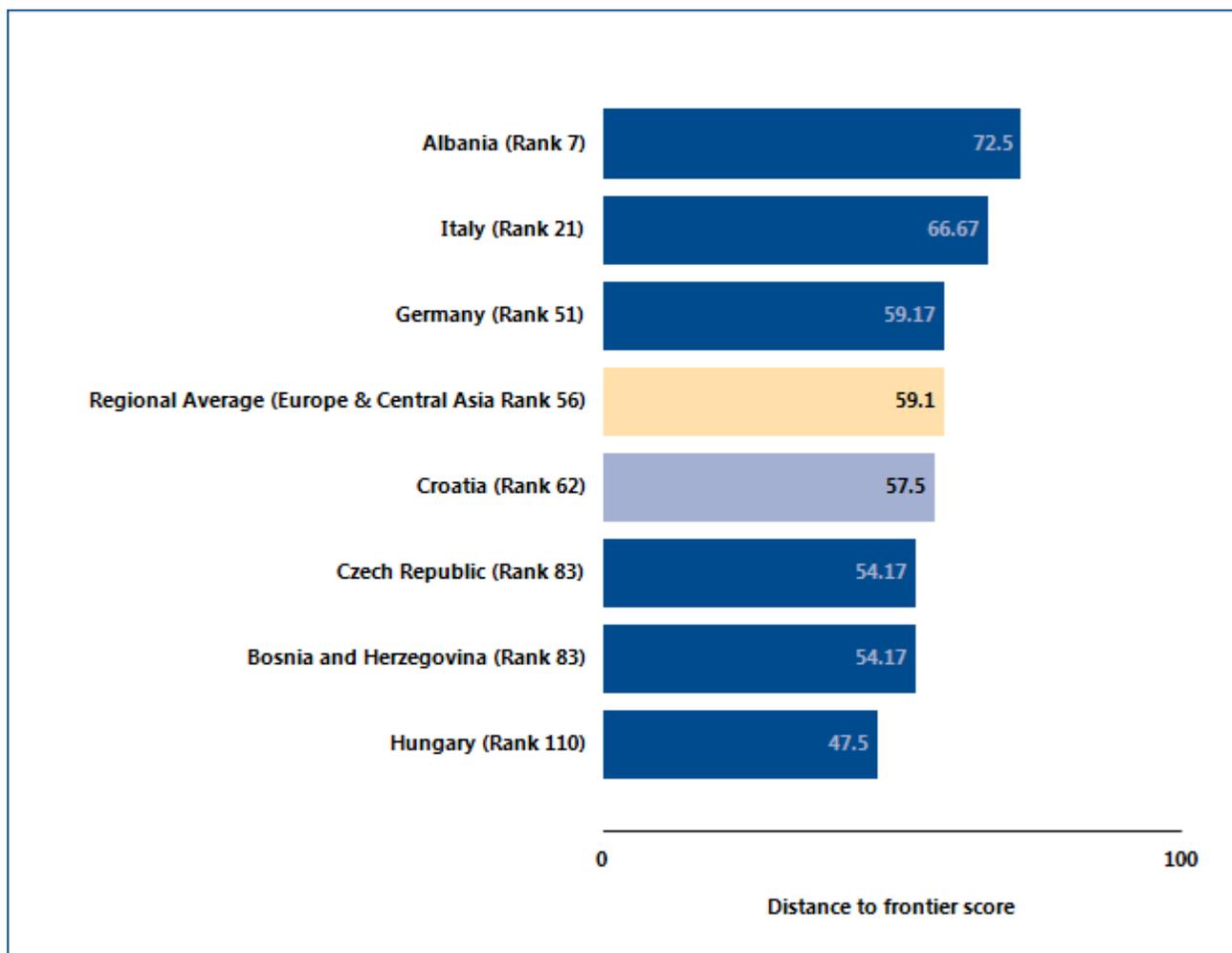
Where does the economy stand today?

How strong are minority investor protections against self-dealing in Croatia? The economy has a score of 5.8 on the strength of minority investor protection index, with a higher score indicating stronger protections.

Globally, Croatia stands at 62 in the ranking of 189 economies on the strength of minority investor

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

Figure 7.1 How Croatia and comparator economies perform on the strength of minority investor protection index



Source: Doing Business database.

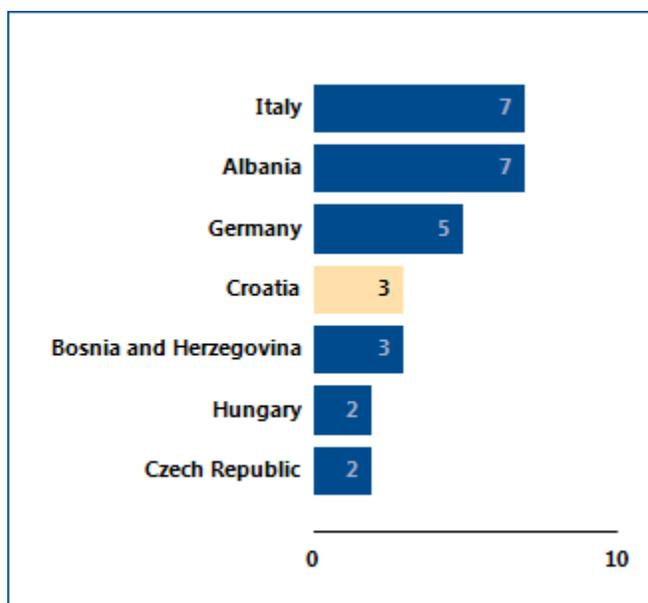
PROTECTING MINORITY INVESTORS

One way to put an economy's scores on the protecting minority investors indicators into context is to see where the economy stands in the distribution of scores across comparator economies. Figures 7.2 through 7.7 highlight the scores on the various minority investor protection

indices for Croatia in 2014. A summary of scoring for the protecting minority investors indicators at the end of this chapter provides details on how the indices were calculated.

Figure 7.2 How extensive are disclosure requirements?

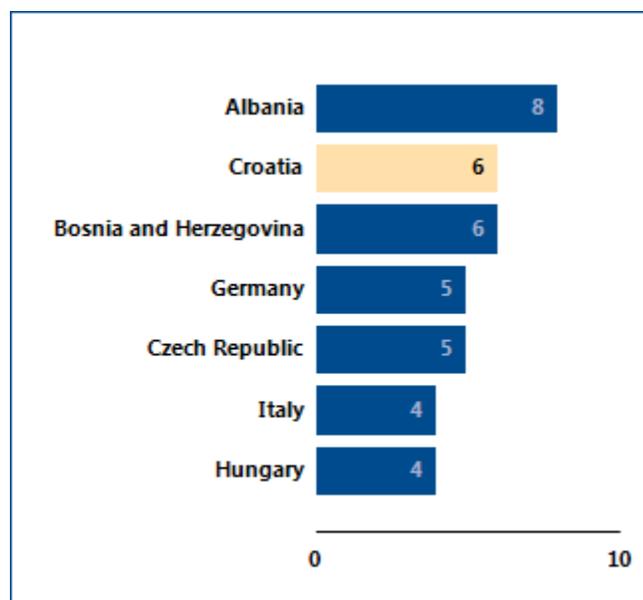
Extent of disclosure index (0-10)



Note: Higher scores indicate greater disclosure.
Source: Doing Business database.

Figure 7.3 How extensive is the liability regime for directors?

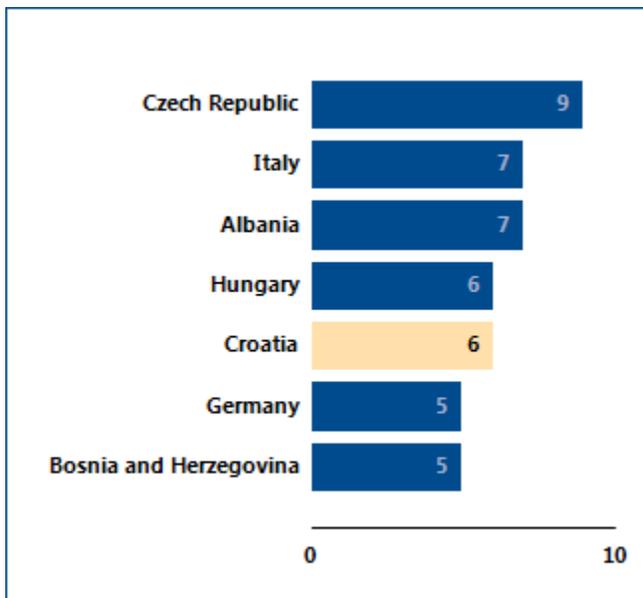
Extent of director liability index (0-10)



Note: Higher scores indicate greater liability of directors.
Source: Doing Business database.

PROTECTING MINORITY INVESTORS

Figure 7.4 How easy is accessing internal corporate documents?

Ease of shareholder suits index (0-10)

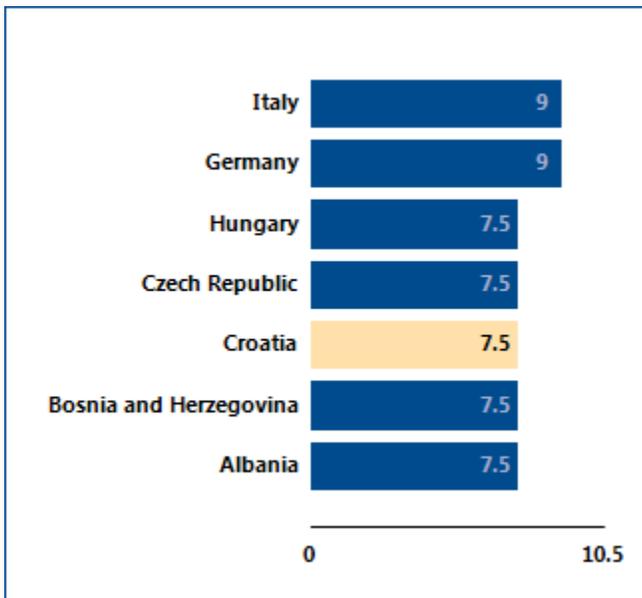
Note: Higher scores indicate greater minority shareholder access to evidence before and during trial.

Source: Doing Business database.

PROTECTING MINORITY INVESTORS

Figure 7.5 How extensive are shareholder rights?

Extent of shareholder rights index (0-10.5)

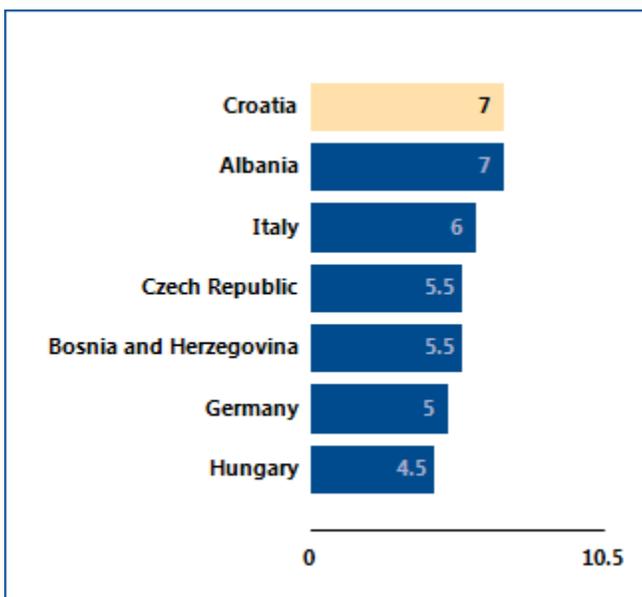


Note: The higher the score, the stronger the protections.

Source: *Doing Business* database.

Figure 7.6 How strong is the governance structure?

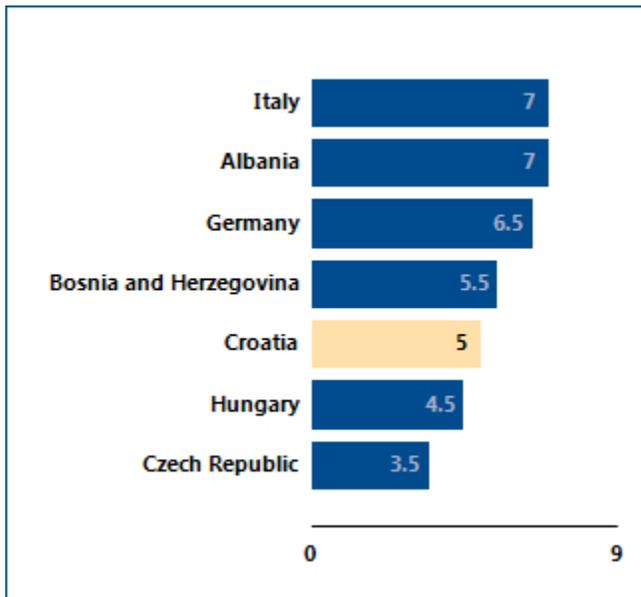
Strength of governance structure index (0-10.5)



Note: Higher scores indicate more stringent governance structure requirements.

Source: *Doing Business* database.

Figure 7.7 How extensive is corporate transparency?

Extent of corporate transparency index (0-9)

Note: Higher scores indicate greater transparency.
Source: *Doing Business* database.

PROTECTING MINORITY INVESTORS

What are the details?

The protecting minority investors indicators reported here for Croatia are based on detailed information collected through a survey of corporate and securities lawyers about securities regulations, company laws and court rules of evidence and procedure. To construct the six indicators on minority investor protection, scores are assigned to each based on a range of conditions relating

to disclosure, director liability, shareholder suits, shareholder rights, governance structure and corporate transparency in a standard case study (for more details, see the Data Notes section of the *Doing Business 2015* report). The summary below shows the details underlying the scores for Croatia.

Table 7.2 Summary of scoring for the protecting minority investors indicators in Croatia

	Answer	Score
Extent of disclosure index (0-10)		3.0
Which corporate body can provide legally sufficient approval for the Buyer-Seller transaction? (0-3)	Shareholders or board of directors including interested parties	1
Is disclosure by the interested director to the board of directors required? (0-2)	No disclosure obligation	0
Is disclosure of the transaction in published periodic filings (annual reports) required? (0-2)	Disclosure on the transaction and on the conflict of interest	2
Is immediate disclosure of the transaction to the public and/or shareholders required? (0-2)	No disclosure obligation	0
Must an external body review the terms of the transaction before it takes place? (0-1)	No	0
Extent of director liability index (0-10)		6.0
Can shareholders sue directly or derivatively for the damage caused by the Buyer-Seller transaction to the company? (0-1)	Yes	1
Can shareholders hold the interested director liable for the damage caused by the transaction to the company? (0-2)	Liable if negligent	1
Can shareholders hold members of the approving body liable for the damage caused by the transaction to the company? (0-2)	Liable if negligent	1
Must the interested director pay damages for the harm caused to the company upon a successful claim by a shareholder plaintiff? (0-1)	Yes	1
Must the interested director repay profits made from the transaction upon a successful claim by a shareholder plaintiff? (0-1)	Yes	1
Can both fines and imprisonment be applied against the interested director? (0-1)	No	0
Can a court void the transaction upon a successful claim by a shareholder plaintiff? (0-2)	Voidable if negligently concluded	1
Ease of shareholder suits index (0-10)		6.0
Before filing suit, can shareholders owning 10% of the company's share capital inspect the transaction documents? (0-1)	Yes	1
Can the plaintiff obtain any documents from the defendant	Documents that the defendant	1

and witnesses during trial? (0-3)	relied on	
Can the plaintiff request categories of documents from the defendant without identifying specific ones? (0-1)	No	0
Can the plaintiff directly question the defendant and witnesses during trial? (0-2)	Yes	2
Is the level of proof required for civil suits lower than that of criminal cases? (0-1)	Yes	1
Can shareholder plaintiffs recover their legal expenses from the company? (0-2)	Yes if successful	1
Strength of minority investor protection index (0-10)		5.8
Extent of conflict of interest regulation index (0-10)		5.0
Extent of shareholder rights index (0-10.5)		7.5
Can shareholders amend company bylaws or statutes with a simple majority?	No	0
Can shareholders owning 10% of the company's share capital call for an extraordinary meeting of shareholders?	Yes	1.5
Can shareholders remove members of the board of directors before the end of their term.	Yes	1.5
Must a company obtain its shareholders' approval every time it issues new shares?	Yes	1.5
Are shareholders automatically granted subscription rights on new shares?	Yes	1.5
Must shareholders approve the election and dismissal of the external auditor?	Yes	1.5
Can shareholders freely trade shares prior to a major corporate action or meeting of shareholders?	No	0
Strength of governance structure index (0-10.5)		7.0
Is the CEO barred from also serving as chair of the board of directors?	No	0
Must the board of directors include independent board members?	Yes	1.5
Must a company have a separate audit committee?	Yes for listed companies	1
Must changes to the voting rights of a series or class of shares be approved only by the holders of the affected shares?	Yes	1.5
Must a potential acquirer make a tender offer to all shareholders upon acquiring 50% of a company?	Yes	1.5
Is cross-shareholding between 2 independent companies limited to 10% of outstanding shares?	No	0
Is a subsidiary barred from acquiring shares issued by its parent company?	Yes	1.5
Extent of corporate transparency index (0-9)		5.0
Must ownership stakes representing 10% be disclosed?	Yes for listed companies	1
Must information about board members' other directorships as well as basic information on their primary employment be disclosed?	No	0
Must the compensation of individual managers be disclosed?	No	0
Must financial statements contain explanatory notes on significant accounting policies, trends, risks, uncertainties and other factors influencing the reporting?	Yes	1.5
Must annual financial statements be audited by an external	Yes	1.5

auditor?		
Must audit reports be disclosed to the public?	Yes for listed companies	1
Extent of shareholder governance index (0-10)		6.5

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* measures the taxes and mandatory contributions that a medium-size company must pay in a given year as well as the administrative burden of paying taxes and contributions. This case scenario uses a set of financial statements and assumptions about transactions made over the year. Information is also compiled on the frequency of filing and payments as well as time taken to comply with tax laws. The ranking 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 rate⁵. 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, 2012.
- The business starts from the same financial position in each economy. All the taxes and mandatory contributions are recorded at all levels of government.

⁵ The nonlinear distance to frontier for the total tax rate is equal to the distance to frontier for the total tax rate if the total tax rate is greater than the threshold and equal to the threshold if the total tax rate is less than the threshold. The threshold is defined as the total tax rate of the 15th percentile of the distribution for all countries included in the analysis. It is calculated and adjusted on a yearly basis. The second year of operation is recorded for an “optimal tax rate” that minimizes distortions or maximizes efficiency in the tax system of an economy overall. Instead, it is mainly empirical in nature, set at the lower end of the distribution of tax rates. A range of standard deductions and exemptions are also recorded. Taxes and mandatory contributions are measured at all levels of government. Labor taxes and contributions paid by the company.

WHAT THE PAYING TAXES INDICATORS MEASURE

Tax payments for a manufacturing company in 2013 (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 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.

PAYING TAXES

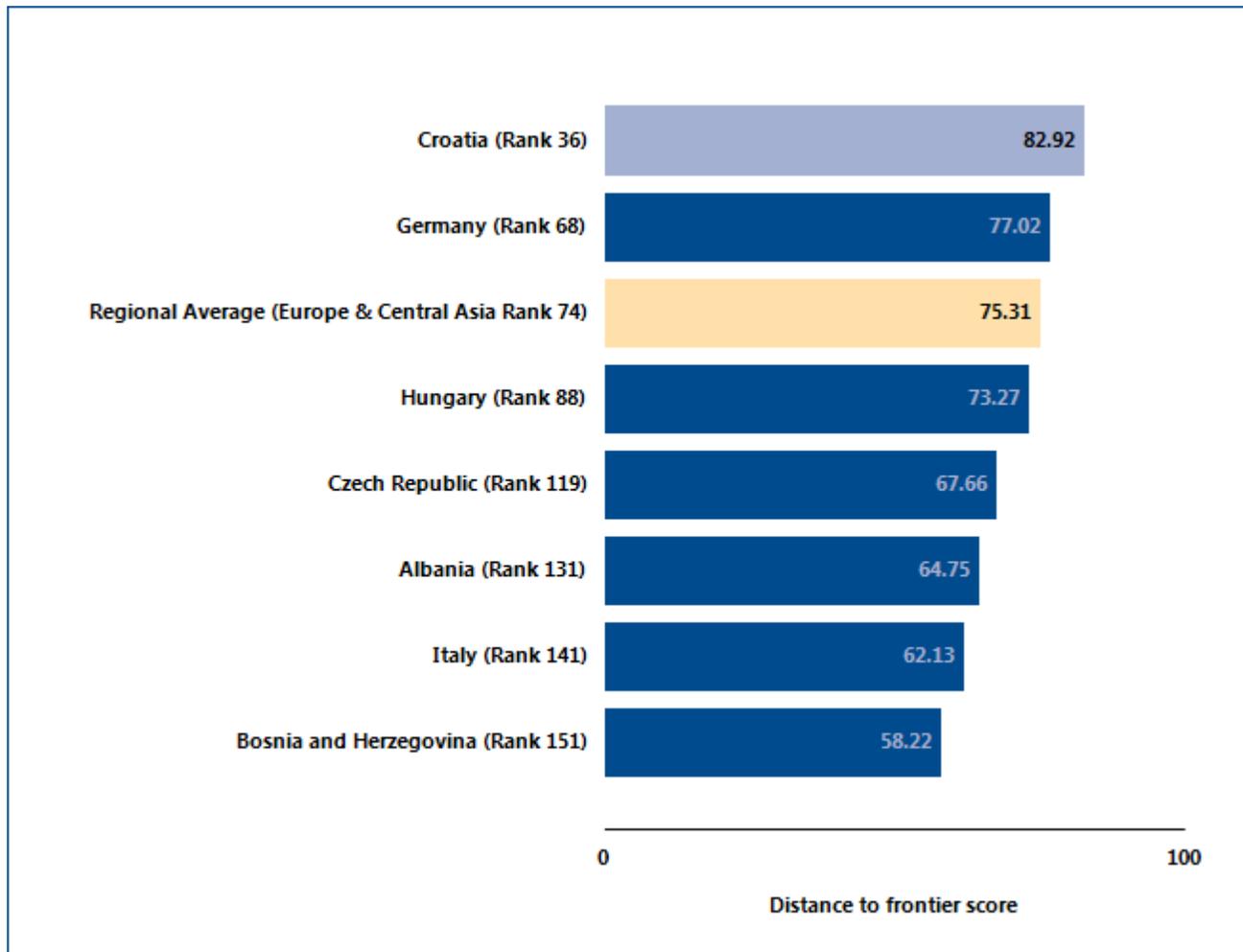
Where does the economy stand today?

What is the administrative burden of complying with taxes in Croatia—and how much do firms pay in taxes? On average, firms make 19.0 tax payments a year, spend 208.0 hours a year filing, preparing and paying taxes and pay total taxes amounting to 18.8% of profit (see the summary at the end of this chapter for details). Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the

2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Globally, Croatia stands at 36 in the ranking of 189 economies on the ease of paying taxes (figure 8.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing the tax compliance burden for businesses in Croatia.

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



Source: Doing Business database.

PAYING TAXES

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

concrete results. Some economies simplifying tax payment and reducing rates have seen tax revenue rise. What tax reforms has *Doing Business* recorded in Croatia (table 8.1)?

Table 8.1 How has Croatia made paying taxes easier—or not?
By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2011	Croatia made paying taxes more difficult and costly for companies by introducing a tourist fee.
DB2013	Croatia made paying taxes less costly for companies by reducing the health insurance contribution rate.
DB2014	Croatia made paying taxes easier for companies by introducing an electronic system for social security contributions and by reducing the rates for the forest and Chamber of Commerce contributions.
DB2015	Croatia made paying taxes more complicated for companies by raising the health insurance contribution rate, increasing the Croatian Chamber of Commerce fees and introducing more detailed filing requirements for VAT. On the other hand, it abolished the contribution to the Croatian Chamber of Commerce.

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

Source: *Doing Business* database.

PAYING TAXES

What are the details?

The indicators reported here for Croatia are based on the taxes and contributions that would be paid by a standardized case study company used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover). Tax practitioners are asked to review a set of financial statements as well as a standardized list of assumptions and transactions that the company completed during its 2nd year of operation. Respondents are asked how much taxes and mandatory contributions the business must pay and how these taxes are filed and paid.

LOCATION OF STANDARDIZED COMPANY

City: Zagreb

The taxes and contributions paid are listed in the summary below, along with the associated number of payments, time and tax rate.

Table 8.2 Summary of tax rates and administration

Tax or mandatory contribution	Payments (number)	Notes on payments	Time (hours)	Statutory tax rate	Tax base	Total tax rate (% of profit)	Notes on total tax rate
Social security contributions	1	online filing	96	15.2%	gross salaries	17.1	
Tourist fee	1	online filing	0	0.04%	turnover	0.7	
Forest contribution	1		0	0.0265%	turnover (purchase cost)	0.5	
Chamber of Commerce fee	0	paid jointly	0	HRK 1,275 per month	fixed fee	0.3	
Chamber of Commerce contribution	12		0	0.005%	turnover	0.1	
Tax on company name	1		0	HRK 340	fixed fee	0	
Corporate income tax	1	online filing	60	20%	taxable profit	0	
Value added tax (VAT)	1	online filing	52	25% starting from 1 March 2013	value added	0	not included

Tax or mandatory contribution	Payments (number)	Notes on payments	Time (hours)	Statutory tax rate	Tax base	Total tax rate (% of profit)	Notes on total tax rate
Employee paid - Social security contributions	0	paid jointly	0	different rates (13.5% - 42.5%)	gross salaries	0	withheld
Fuel tax	1		0		included into fuel price	0	small amount
Totals	19.0		208.0			18.8	

Source: Doing Business database.

TRADING ACROSS BORDERS

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

What do the indicators cover?

Doing Business measures the time and cost (excluding tariffs and the time and cost for sea transport) associated with exporting and importing a standard shipment of goods by sea transport, and the number of documents necessary to complete the transaction. The indicators cover predefined stages such as documentation requirements and procedures at customs and other regulatory agencies as well as at the port. They also cover trade logistics, including the time and cost of inland transport to the largest business city. The ranking 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 each of the component indicators. To make the data comparable across economies, *Doing Business* uses several assumptions about the business and the traded goods.

The business:

- Is located in the economy's largest business city. For the 11 economies with a population of more than 100 million, data for a second city have been added.
- Is a private, limited liability company, domestically owned and does not operate with special export or import privileges.
- Conducts export and import activities, but does not have any special accreditation such as an authorized economic operator status.

WHAT THE TRADING ACROSS BORDERS INDICATORS MEASURE

Documents required to export and import (number)

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

Time required to export and import (days)

- Obtaining, filling out and submitting all the documents
- Inland transport and handling
- Customs clearance and inspections
- Port and terminal handling
- Does not include sea transport time

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

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

The traded product:

- Is not hazardous nor includes military items.
- Does not require refrigeration or any other special environment.
- Do not require any special phytosanitary or environmental safety standards other than accepted international standards.
- Is one of the economy's leading export or import products.
- Is transported in a dry-cargo, 20-foot full container load.

TRADING ACROSS BORDERS

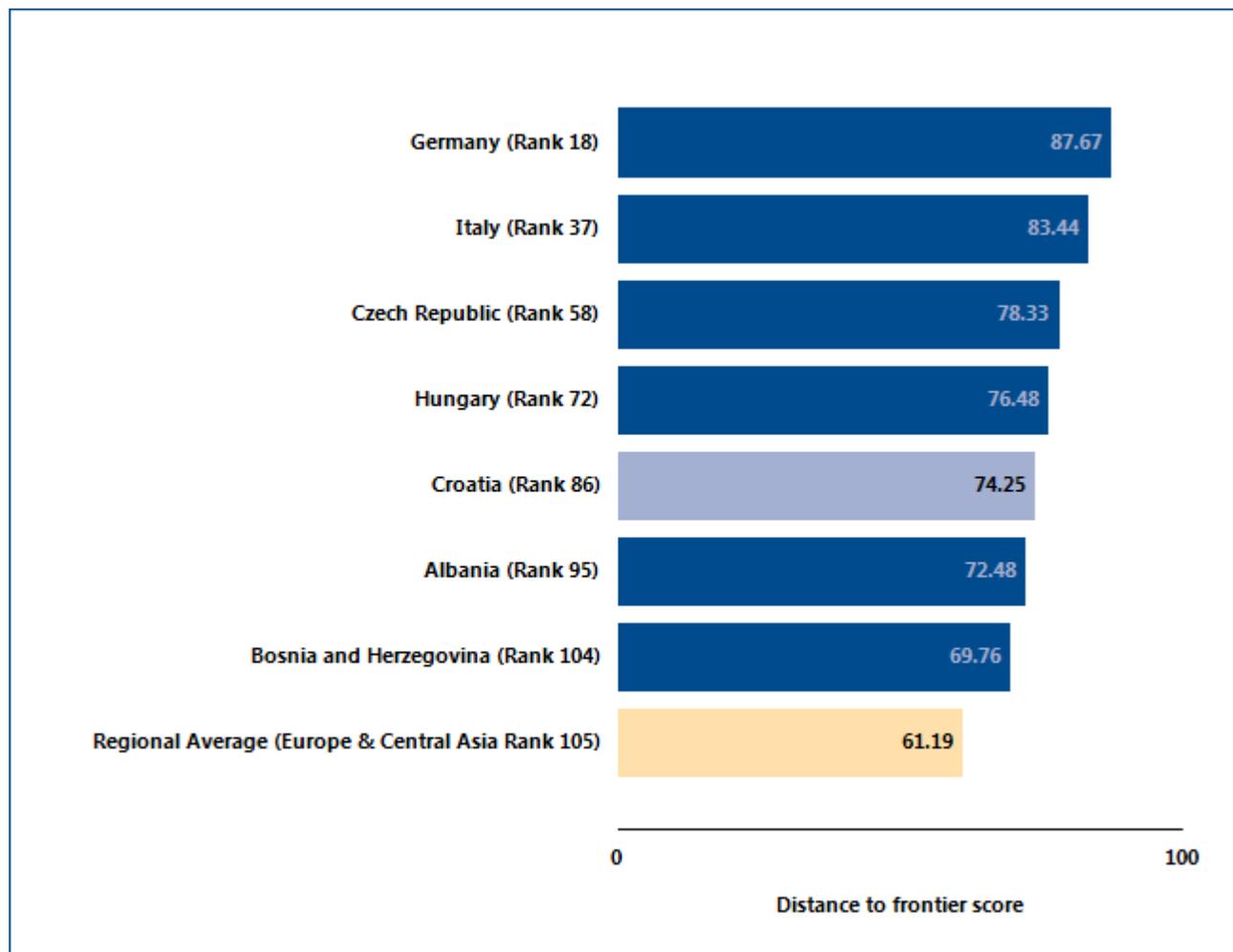
Where does the economy stand today?

What does it take to export or import in Croatia? According to data collected by *Doing Business*, exporting a standard container of goods requires 6 documents, takes 16.0 days and costs \$1335.0. Importing the same container of goods requires 7 documents, takes 14.0 days and costs \$1185.0 (see the summary of four predefined stages and documents at the end of this chapter for details). Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a

population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Globally, Croatia stands at 86 in the ranking of 189 economies on the ease of trading across borders (figure 9.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how easy it is for a business in Croatia to export and import goods.

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



Source: *Doing Business* database.

TRADING ACROSS BORDERS

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

systems. These changes help improve the trading environment and boost firms' international competitiveness. What trade reforms has *Doing Business* recorded in Croatia (table 9.1)?

Table 9.1 How has Croatia made trading across borders easier—or not?
By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2014	Croatia made trading across borders easier by improving the physical and information system infrastructure at the port of Rijeka and by streamlining export customs procedures in preparation for accession to the Common Transit Convention of the European Union.
DB2015	Croatia made trading across borders easier by implementing a new electronic customs system.

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

Source: *Doing Business* database.

TRADING ACROSS BORDERS

What are the details?

The indicators reported here for Croatia are based on a set of specific predefined stages for trading a standard shipment of goods by ocean transport (see the section in this chapter on what the indicators cover). Information on the required documents and the time and cost to complete export and import is collected from local freight forwarders, shipping lines, customs brokers, port officials and banks.

LOCATION OF STANDARDIZED COMPANY

Port Name: Rijeka

City: Zagreb

The predefined stages, and the associated time and cost, for exporting and importing a standard shipment of goods are listed in the summary below, along with the required documents.

Table 9.2 Summary of predefined stages and documents for trading across borders in Croatia

Stages to export	Time (days)	Cost (US\$)
Customs clearance and inspections	2	70
Documents preparation	7	360
Inland transportation and handling	3	620
Ports and terminal handling	4	285
Totals	16	1,335

Stages to import	Time (days)	Cost (US\$)
Customs clearance and inspections	2	70
Documents preparation	8	215
Inland transportation and handling	2	620
Ports and terminal handling	2	280
Totals	14	1,185

Documents to export

Bill of Lading
Cargo release order
Commercial Invoice
Customs export declaration
Packing List
Terminal handling receipts

Documents to import

Bill of lading
Cargo release order
Commercial Invoice
Customs import declaration
Packing list
Pre-shipment inspection clean report of findings
Terminal handling receipts

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

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

- The seller and buyer are located in the economy's largest business city. For the 11 economies with a population of more than 100 million, data for a second city have been added.
- The buyer orders custom-made goods, then fails to pay.
- The seller sues the buyer before a competent court.
- The value of the claim is 200% of the income per capita or the equivalent in local currency of USD 5,000, whichever is greater.

WHAT THE ENFORCING CONTRACTS INDICATORS MEASURE

Procedures to enforce a contract through the courts (number)

- Steps to file and serve the case
- Steps for trial and judgment
- Steps to enforce the judgment

Time required to complete procedures (calendar days)

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

Cost required to complete procedures (% of claim)

- Average attorney fees
- Court costs
- Enforcement costs

- 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

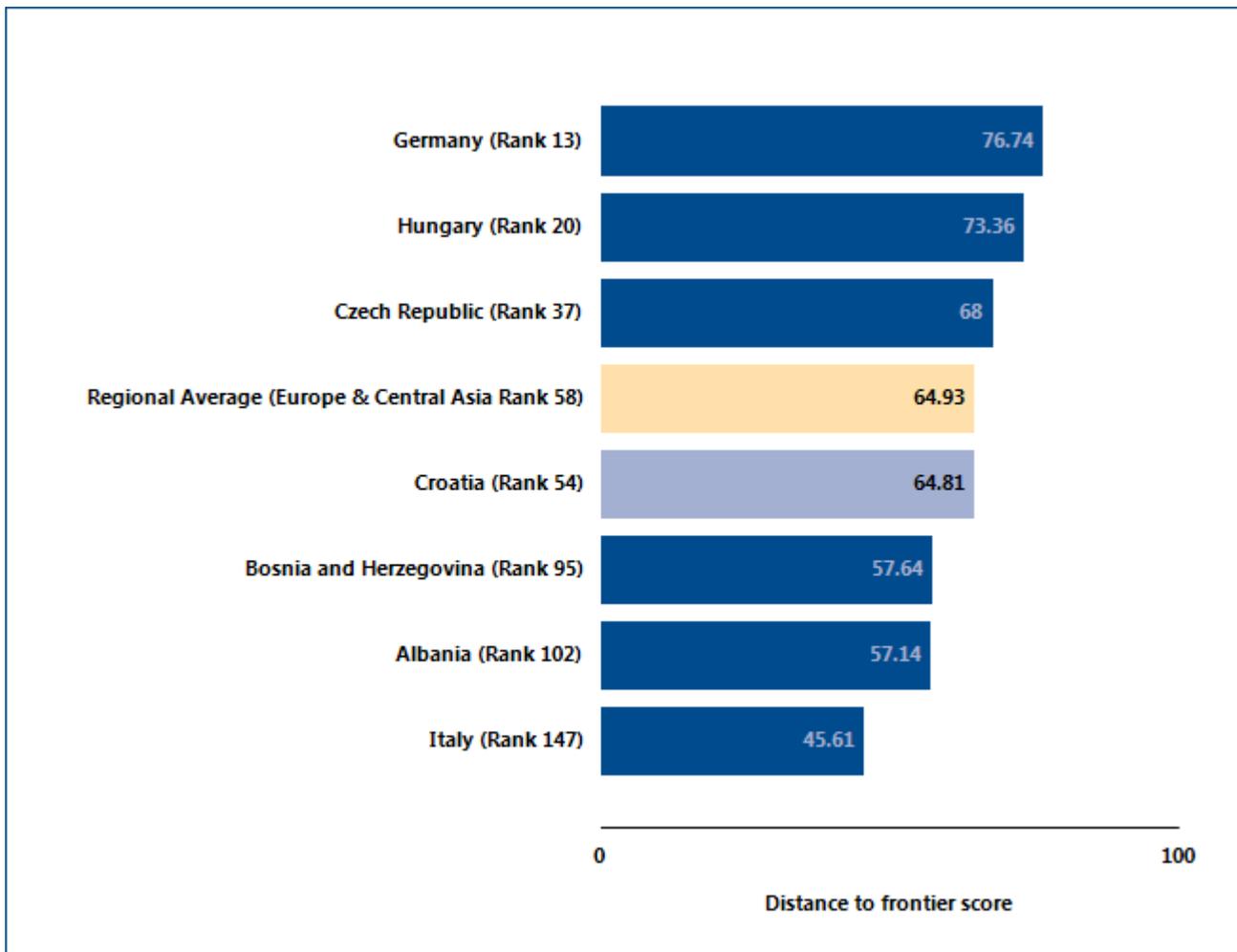
Where does the economy stand today?

How efficient is the process of resolving a commercial dispute through the courts in Croatia? According to data collected by *Doing Business*, contract enforcement takes 572.0 days, costs 13.8% of the value of the claim and requires 38.0 procedures (see the summary at the end of this chapter for details). Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business

cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

Globally, Croatia stands at 54 in the ranking of 189 economies on the ease of enforcing contracts (figure 10.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of contract enforcement in Croatia.

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



Source: *Doing Business* database.

ENFORCING CONTRACTS

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

reducing backlogs by introducing periodic reviews to clear inactive cases from the docket and by making procedures faster. What reforms making it easier (or more difficult) to enforce contracts has *Doing Business* recorded in Croatia (table 10.1)?

Table 10.1 How has Croatia made enforcing contracts easier—or not?

By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2014	Croatia made enforcing contracts easier by streamlining litigation proceedings and transferring certain enforcement procedures from the courts to state agencies.

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

Source: *Doing Business* database.

ENFORCING CONTRACTS

What are the details?

The indicators reported here for Croatia are based on a set of specific procedural steps required to resolve a standardized commercial dispute through the courts (see the section in this chapter on what the indicators cover). These procedures, and the time and cost of completing them, are identified through study of the codes of civil procedure and other court regulations, as well as through questionnaires completed by local litigation lawyers (and, in a quarter of the economies covered by *Doing Business*, by judges as well).

COURT NAME

Claim value:	HRK 148,956
Court name:	Zagreb Commercial Court
City:	Zagreb

Table 10.2 Summary of time, cost and procedures for enforcing a contract in Croatia

Indicator	Croatia	Europe & Central Asia average
Time (days)	572	448
Filing and service	32	
Trial and judgment	365	
Enforcement of judgment	175	
Cost (% of claim)	13.8	25.2
Attorney cost (% of claim)	8.6	
Court cost (% of claim)	2.6	
Enforcement Cost (% of claim)	2.6	
Procedures (number)	38	37
Number of procedures (without bonus points)	39	
Specialized commercial courts	-1	
Total number of procedures (including bonus points)	38	

No.	Procedures
	Filing and service:
1	Plaintiff requests payment: Plaintiff or his lawyer asks Defendant orally or in writing to comply with the contract.
2	Plaintiff hires a lawyer: Plaintiff hires a lawyer.
*	Plaintiff files a summons and complaint: Plaintiff files a summons and complaint with the court (orally or in writing).
*	Plaintiff pays court fees: Plaintiff pays court fees (e.g. court duties, stamp duties, or any other type of court fees). Answer 'yes' even if Plaintiff recovers these costs.
3	Registration of court case: Registration of court case by the court administration (this can include assigning a reference number to the case).
*	Assignment of court case to a judge: Assignment of court case to a judge (through a random procedure, automated system, ruling of an administrative judge, court officer, etc).
4	Judicial scrutiny of summons and complaint: Judge examines Plaintiff's summons and complaint for formal requirements as a matter of law or standard practice.
*	Judge admits summons and complaint: Judge admits summons and complaint (after verifying the formal requirements).
*	Mailing of summons and complaint: Court or process server, including (private) bailiff, mails summons and complaint to Defendant.
5	Attempt at physical delivery: An attempt to physically deliver summons and complaint to Defendant is made.
6	Second attempt at physical delivery: If a first attempt is not ordinarily successful, a second attempt to physically deliver the summons and complaint to Defendant is required by law or standard practice. (Check 'yes' only if a first attempt at physical delivery is not ordinarily successful)
*	Application for pre-judgment attachment: Plaintiff submits an application in writing for the attachment of Defendant's property prior to judgment.
*	Decision on pre-judgment attachment: Judge decides whether to grant Plaintiff's request for pre-judgment attachment of Defendant's property and notifies Plaintiff and Defendant of the decision.
7	Pre-judgment attachment order: Defendant's property is attached prior to judgment. Attachment order either involves physical attachment, or is achieved by freezing, registering, marking, or otherwise separating and restricting Defendant's movement of specific moveable assets.
	Trial and judgment:
*	Defendant files preliminary objections.: Defendant presents preliminary objections to the court. (Preliminary exemptions differ from answers on the merits. Examples of preliminary motions are motions to dismiss on the basis of the statute of limitations or jurisdictional objections, etc.) Checke

No.	Procedures
*	Plaintiff's answer to preliminary motions: Plaintiff responds to preliminary motions raised by Defendant. Checked as 'yes' if preliminary motions are commonly raised (step 30) and if Plaintiff responds to them immediately.
8	Judge's resolution on preliminary objections: Judge decides on preliminary objections separately from the merits of the case. Checked as 'yes' if preliminary objections are commonly made (step 30) and if judge resolves the question before rendering his decision.
9	Defendant files an answer to Plaintiff's claim: Defendant files a written pleading which includes his answer or defense on the merits of the case (see assumption 4).
10	Plaintiff's written reply to Defendant's answer: Plaintiff responds to Defendant's answer with a written pleading, which may or may not include witness statements or expert (witness) statements.
11	Filing of written submissions: Plaintiff and Defendant file written pleadings and submissions with the court and transmit copies of the written pleadings or submissions to one another. The pleadings may or may not include witness statements or expert (witness) statements.
12	Adjournments: Court procedure is delayed because one or both parties request and obtain an adjournment to submit written pleadings. Check as 'yes' if this commonly happens.
*	Court appointment of independent expert: Judge appoints, either at the parties' request or at his own initiative, an independent expert to decide whether the quality of the goods Plaintiff delivered to Defendant is adequate. (see assumption 5-b).
13	Notification of court-appointment of independent expert: The court notifies both parties that the court is appointing an independent expert (see assumption 5-b).
*	Delivery of expert report by court-appointed expert: The independent expert, appointed by the court, delivers his or her expert report to the court (see assumption 5-b).
*	Setting of date(s) for oral hearing or trial: Judge sets the date(s) for the oral hearing or trial.
14	Preliminary hearing aimed at preparing for the oral hearing: The judge meets the parties to make practical arrangements for the oral hearing on the merits of the case.
*	List of (expert) witnesses: The parties file a list of (expert) witnesses with the court (see assumption 5-a).
15	Summoning of (expert) witnesses: The court summons (expert) witnesses to appear in court for the oral hearing or trial (see assumption 5-a).
16	Adjournments: Court proceedings are delayed because one or both parties request and obtain an adjournment to prepare for the oral hearing or trial as a matter of common practice.
17	Oral hearing (prevalent in civil law): The parties argue the merits of the case at an oral hearing before the judge. Witnesses and a court-appointed independent expert may be heard and questioned at the oral hearing.
18	Adjournments: Court proceedings are delayed because one or both parties request and obtain an adjournment during the oral hearing or trial, resulting in an additional or later trial or hearing date.
19	Closing of the evidence period: The court makes the formal decision to close the evidence period.
20	Judgment date: The judge sets a date for delivery of the judgment.

No.	Procedures
21	Notification of judgment in court: The parties are notified of the judgment at a court hearing.
22	Writing of judgment: The judge produces a written copy of the judgment.
23	Plaintiff receives a copy of the judgment: Plaintiff receives a copy of the written judgment which is 100% in favor of Plaintiff (see assumption 6).
24	Defendant is formally notified of the judgment: Plaintiff or court formally notifies the Defendant of the judgment. The appeal period starts to run from the day the Defendant is formally notified of the judgment.
25	Appeal period: By law Defendant has the opportunity to appeal the judgment during a specified period. Defendant decides not to appeal. Seller decides to start enforcing the judgment when the appeal period ends (see assumption 8).
26	Order for reimbursement by Defendant of Plaintiff's court fees: The judgment orders Defendant to reimburse Plaintiff for the court fees Plaintiff has advanced, because Defendant has lost the case.
	Enforcement of judgment:
*	Plaintiff hires a lawyer: Plaintiff hires a lawyer to enforce the judgment or continues to be represented by a lawyer during the enforcement of judgment phase.
27	Plaintiff retains an enforcement agent to enforce the judgment.: Plaintiff retains the services of a court enforcement officer such as a court bailiff or sheriff, or a private bailiff.
*	Plaintiff requests an enforcement order: Plaintiff applies to the court to obtain the enforcement order ('seal' on judgment).
28	Plaintiff advances enforcement fees: Plaintiff pays the fees related to the enforcement of the judgment.
29	Attachment of enforcement order to judgment: The judge attaches the enforcement order ('seal') to the judgment.
*	Delivery of enforcement order: The court's enforcement order is delivered to a court enforcement officer or a private bailiff.
30	Plaintiff identifies Defendant's assets for attachment: Plaintiff identifies Defendant's assets for attachment.
31	Attachment: Defendant's movable goods are attached (physically or by registering, marking or separating assets).
32	Report on execution of attachment: A court enforcement officer or private bailiff delivers a report on the attachment of Defendant's movable goods to the judge.
33	Valuation or appraisal of attached movable goods: The court or court-appointed valuation expert evaluates the attached goods.
34	Call for public auction: Judge calls a public auction by, for example, advertising or publication in the newspapers.
35	Sale through public auction: The Defendant's movable property is sold at public auction.
36	Judge's decision on bids: Judge determines the adequacy of the bids presented at public auction.

No.	Procedures
37	Distribution of proceeds: The proceeds of the public auction are distributed to Plaintiff (and, where applicable, to other creditors, according to the rules of priority).
38	Reimbursement of Plaintiff's enforcement fees: Defendant reimburses Plaintiff's enforcement fees which Plaintiff had advanced previously.
39	Payment: Court orders that the proceeds of the public auction or the direct sale be delivered to Plaintiff.

* Not counted in the total number of procedures.

Source: *Doing Business* database.

RESOLVING INSOLVENCY

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

What do the indicators cover?

Doing Business studies the time, cost and outcome of insolvency proceedings involving domestic legal entities. These variables are used to calculate the recovery rate, which is recorded as cents on the dollar recouped by secured creditors through reorganization, liquidation or debt enforcement (foreclosure) 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 the Resolving Insolvency indicator is based on the recovery rate and the total score of 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 survey 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

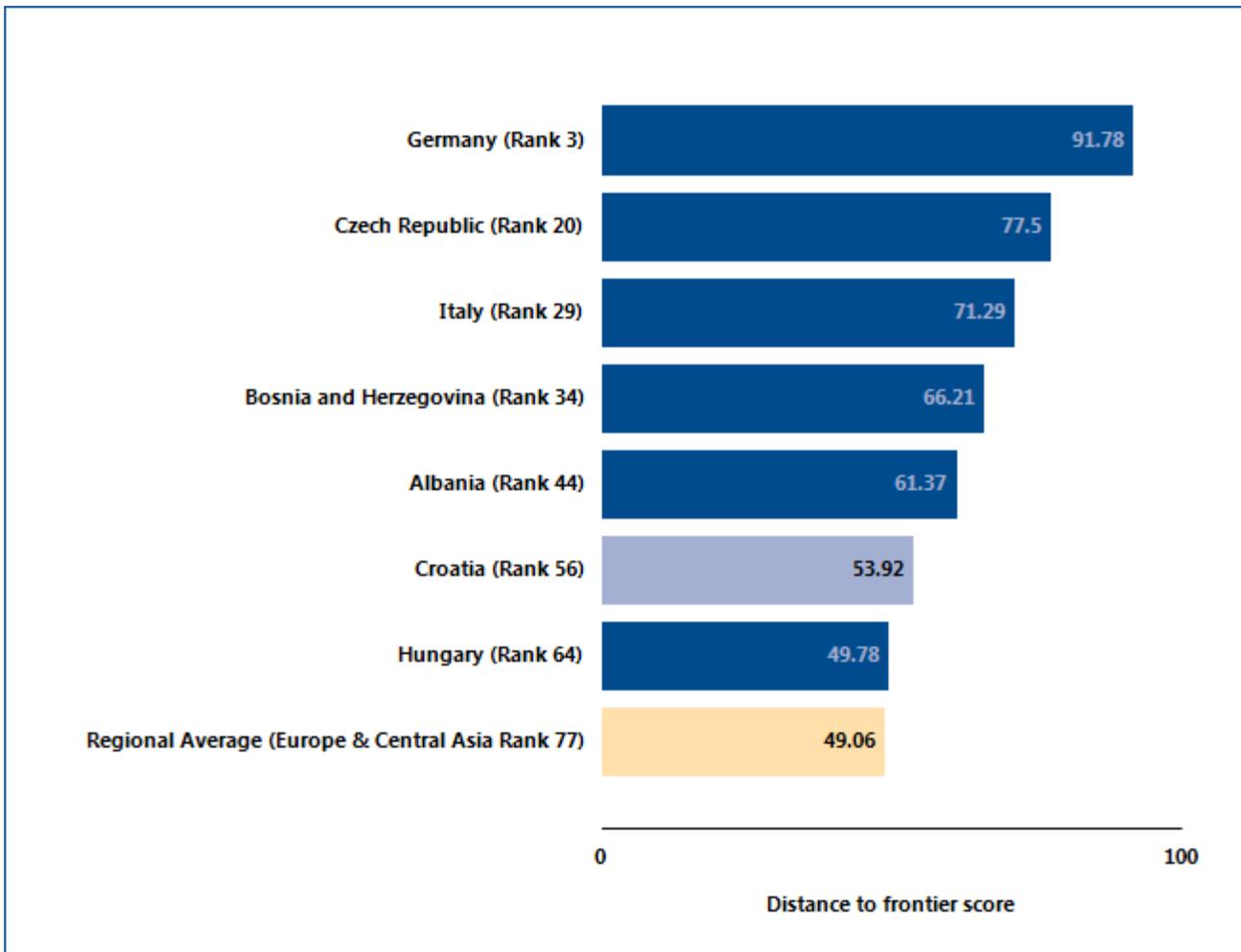
Where does the economy stand today?

Combination of quality regulations and efficient practice characterize the top-performing economies. How efficient are insolvency proceedings in Croatia? According to data collected by *Doing Business*, resolving insolvency takes 3.1 years on average and costs 14.5% of the debtor's estate, with the most likely outcome being that the company will be sold as piecemeal sale. The average recovery rate is 30.5 cents on the dollar. Most indicator sets refer to a case scenario in the largest business city of an economy, except for 11 economies for which the data are a population-weighted average of the 2 largest business cities. See the chapter on distance to frontier and ease of doing business ranking at the end of this profile for more details.

According to data collected by *Doing Business*, Croatia scores 3.0 out of 3 points on the commencement of proceedings index, 4.0 out of 6 points on the management of debtor's assets index, 3.0 out of 3 points on the reorganization proceedings index, and 2.0 out of 4 points on the creditor participation index. Croatia's total score on the strength of insolvency framework index is 12.0 out of 16.

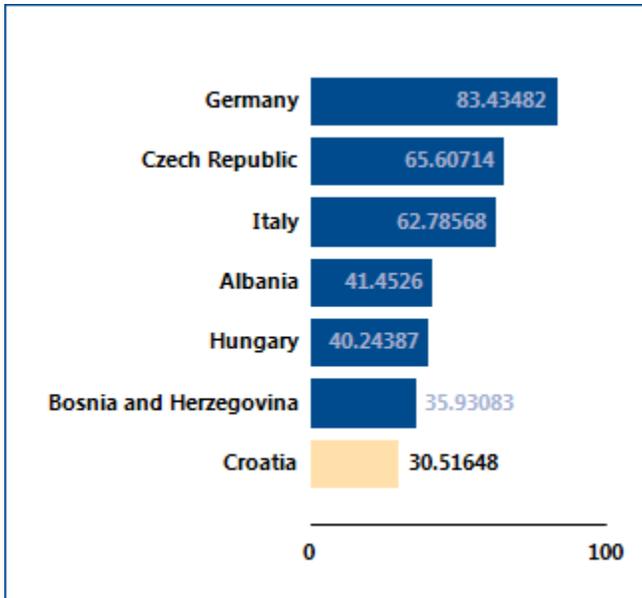
Globally, Croatia stands at 56 in the ranking of 189 economies on the ease of resolving insolvency (figure 11.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of insolvency proceedings in Croatia.

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



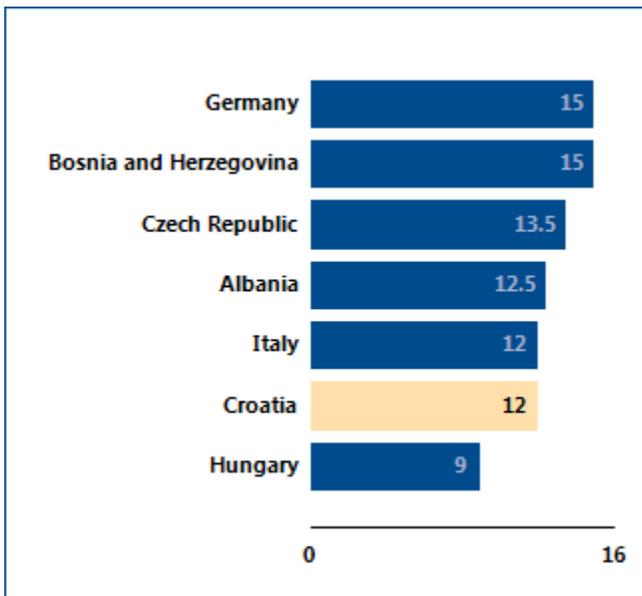
Source: Doing Business database.

Figure 11.2 Recovery Rate (0-100) - Croatia



Source: Doing Business database.

Figure 11.3 Strength of insolvency framework index (0-16) - Croatia



Source: Doing Business database.

RESOLVING INSOLVENCY

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

change. Many recent reforms of bankruptcy laws have been aimed at helping more of the viable businesses survive. What insolvency reforms has *Doing Business* recorded in Croatia (table 11.1)?

Table 11.1 How has Croatia made resolving insolvency easier—or not?

By *Doing Business* report year from DB2010 to DB2015

DB year	Reform
DB2014	Croatia made resolving insolvency easier by introducing an expedited outof- court restructuring procedure.

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.

LABOR MARKET REGULATION

Doing Business measures flexibility in the regulation of employment, specifically as it affects the hiring and redundancy of workers and the rigidity of working hours. This year, for the first time, the indicators measuring flexibility in labor market regulations focus on those affecting the food retail industry, using a standardized case study of a cashier in a supermarket. Also new is that *Doing Business* collects data on regulations applying to employees hired through temporary-work agencies as well as on those applying to permanent employees or employees hired on fixed-term contracts. The indicators also cover additional areas of labor market regulation, including social protection schemes and benefits as well as labor disputes.

Over the period from 2007 to 2011 improvements were made to align the methodology for the labor market regulation indicators (formerly the employing workers indicators) with the letter and spirit of the International Labour Organization (ILO) conventions. Only 6 of the 188 ILO conventions cover areas measured by *Doing Business*: employee termination, weekend work, holiday with pay, night work, protection against unemployment and medical care and sickness benefits. The *Doing Business* methodology is fully consistent with these 6 conventions. The ILO conventions covering areas related to the labor market regulation indicators do not include the ILO core labor standards—8 conventions covering the right to collective bargaining, the elimination of forced labor, the abolition of child labor and equitable treatment in employment practices.

Between 2009 and 2011 the World Bank Group worked with a consultative group—including labor lawyers, employer and employee representatives, and experts from the ILO, the Organisation for Economic Co-operation and Development (OECD), civil society and the private sector—to review the methodology for the labor market regulation indicators and explore future areas of research.

A full report with the conclusions of the consultative group is available at:
<http://www.doingbusiness.org/methodology/employing-workers>.

Doing Business 2015 presents the data for the labor market regulation indicators in an annex. The report does not present rankings of economies on these indicators nor include the topic in the aggregate distance to frontier score or ranking on the ease of doing business. Detailed data collected on labor market regulations are available on the *Doing Business* website (<http://www.doingbusiness.org>). The data on labor market regulations are based on a detailed survey of employment regulations that is completed by local lawyers and public officials. Employment laws and regulations as well as secondary sources are reviewed to ensure accuracy. To make the data comparable across economies, several assumptions about the worker and the business are used.

The worker:

- Is a cashier in a supermarket or a grocery store
- Is a full-time employee
- Is not a member of the labor union, unless membership is mandatory

The business:

- Is a limited liability company (or the equivalent in the economy) with 60 employees.
- Operates a supermarket or grocery store in the economy's largest business city. For 11 economies the data are also collected for the second largest business city.
- Is subject to collective bargaining agreements if such agreements cover more than 50% of the food retail sector and they apply even to firms that are not party to them.
- Abides by every law and regulation but does not grant workers more benefits than those mandated by law, regulation or (if applicable) collective bargaining agreements.

LABOR MARKET REGULATION

Employment laws are needed to protect workers from arbitrary or unfair treatment and to ensure efficient contracting between employers and workers. Many economies that changed their labor market regulation in

the past 5 years did so in ways that increased labor market flexibility. What changes did Croatia adopt that affected the *Doing Business* indicators on labor market regulation (table 12.1)?

Table 12.1 What changes did Croatia make in terms of labor market regulation?

DB year	Reform
DB2011	Croatia increased the mandatory paid annual leave.
DB2015	Croatia lifted the 3-year limit on the duration of first-time fixed-term contracts.

Source: *Doing Business* database.

LABOR MARKET REGULATION

What are the details?

The data reported here for Croatia are based on a detailed survey of labor market regulation that is completed by local lawyers and public officials.

Employment laws and regulations as well as secondary sources are reviewed to ensure accuracy.

Difficulty of hiring index

Difficulty of hiring covers 4 areas: (i) whether fixed-term contracts are prohibited for permanent tasks; (ii) the maximum cumulative duration of fixed-term contracts; (iii) the minimum wage for a cashier, age 19, with 1 year of work experience; and (iv) the ratio of the minimum

wage to the average value added per worker. The average value added per worker is the ratio of an economy's GNI per capita to the working-age population as a percentage of the total population.

Difficulty of hiring index	Data
Fixed-term contracts prohibited for permanent tasks?	Yes
Maximum length of a single fixed-term contract (months)	Labor Law on July 1st, 2013 (OG 73 / 13) -- No maximum duration on first time fixed term contract
Maximum length of fixed-term contracts, including renewals (months)	No limit
Minimum wage applicable to the worker assumed in the case study (US\$/month)	534.87
Ratio of minimum wage to value added per worker	0.32

Source: *Doing Business* database.

LABOR MARKET REGULATION

Rigidity of hours index

Rigidity of hours covers 7 areas: (i) whether the workweek can extend to 50 hours or more (including overtime) for 2 months in a year to respond to a seasonal increase in workload; (ii) the maximum number of days allowed in the workweek; (iii) the premium for night work (as a percentage of hourly pay); (iv) the premium for work on a weekly rest day (as a percentage of hourly pay); (v) whether there are restrictions on night work; (vi) whether there are restrictions on weekly holiday work; and (vii) the average paid annual leave for workers with 1 year of tenure, 5 years of tenure and 10 years of tenure.

Rigidity of hours index	Data
50-hour workweek allowed for 2 months a year in case of a seasonal increase in workload?	Yes
Maximum working days per week	6.0
Premium for night work (% of hourly pay)	10%
Premium for work on weekly rest day (% of hourly pay)	35%
Major restrictions on night work?	Yes
Major restrictions on weekly holiday?	Yes
Paid annual leave for a worker with 1 year of tenure (in working days)	20.0
Paid annual leave for a worker with 5 years of tenure (in working days)	20.0
Paid annual leave for a worker with 10 years of tenure (in working days)	20.0
Paid annual leave (average for workers with 1, 5 and 10 years of tenure, in working days)	20.0

Source: *Doing Business* database.

LABOR MARKET REGULATION

Difficulty of redundancy index

Difficulty of redundancy index looks at 9 questions: (i) what the length is in months of the maximum probationary period; (ii) whether redundancy is disallowed as a basis for terminating workers; (iii) whether the employer needs to notify a third party (such as a government agency) to terminate 1 redundant worker; (iv) whether the employer needs to notify a third party to terminate a group of 9 redundant workers; (v)

whether the employer needs approval from a third party to terminate 1 redundant worker; (vi) whether the employer needs approval from a third party to terminate a group of 9 redundant workers; (vii) whether the law requires the employer to reassign or retrain a worker before making the worker redundant; (viii) whether priority rules apply for redundancies; and (ix) whether priority rules apply for reemployment.

Difficulty of redundancy index	Data
Maximum length of probationary period (months)	6.0
Dismissal due to redundancy allowed by law?	Yes
Third-party notification if 1 worker is dismissed?	Yes
Third-party approval if 1 worker is dismissed?	No
Third-party notification if 9 workers are dismissed?	Yes
Third-party approval if 9 workers are dismissed?	No
Retraining or reassignment obligation before redundancy?	Yes
Priority rules for redundancies?	Yes
Priority rules for reemployment?	Yes

Source: *Doing Business* database.

LABOR MARKET REGULATION

Redundancy cost

Redundancy cost measures the cost of advance notice requirements, severance payments and penalties due when terminating a redundant worker, expressed in weeks of salary. The average value of notice

requirements and severance payments applicable to a worker with 1 year of tenure, a worker with 5 years and a worker with 10 years is considered. One month is recorded as 4 and 1/3 weeks.

Redundancy cost indicator (in salary weeks)	Data
Notice period for redundancy dismissal for a worker with 1 year of tenure	4.3
Notice period for redundancy dismissal for a worker with 5 years of tenure	8.7
Notice period for redundancy dismissal for a worker with 10 years of tenure	10.7
Notice period for redundancy dismissal (average for workers with 1, 5 and 10 years of tenure)	7.9
Severance pay for redundancy dismissal for a worker with 1 year of tenure	0.0
Severance pay for redundancy dismissal for a worker with 5 years of tenure	7.2
Severance pay for redundancy dismissal for a worker with 10 years of tenure	14.4
Severance pay for redundancy dismissal (average for workers with 1, 5 and 10 years of tenure)	7.2

Source: *Doing Business* database.

Social protection schemes and benefits & Labor disputes

Doing Business collects data on the existence of unemployment protection schemes as well as data on whether employers are legally required to provide health insurance for employees with permanent contracts.

Doing Business also assesses the mechanisms available to resolve labor disputes. More specifically, it collects data on what courts would be competent to hear labor disputes and whether the competent court is specialized in resolving labor disputes.

Social protection schemes and benefits & Labor disputes indicator	Data
Availability of unemployment protection scheme?	Yes
Health insurance existing for permanent employees?	Yes
Availability of courts or court sections specializing in labor disputes?	No

Source: *Doing Business* database.

DISTANCE TO FRONTIER AND EASE OF DOING BUSINESS RANKING

This year's report presents results for 2 aggregate measures: the distance to frontier score and the ease of doing business ranking, which for the first time this year 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 31 indicators for 10 *Doing Business* topics (the labor market regulation indicators are excluded). For starting a business, for example, Canada 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 110 other economies have no paid-in minimum capital requirement (table 15.1 in the *Doing Business 2015* report).

Calculation of the distance to frontier score

Calculating the distance to frontier score for each economy involves 2 main steps. First, individual component indicators are normalized to a common unit where each of the 31 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 after data for the indicator were collected for the first time. For legal indicators such as those on getting credit or protecting minority investors, 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. For the time to pay taxes the frontier is defined as the lowest time recorded among all economies that levy the 3 major taxes: profit tax, labor taxes and mandatory contributions, and value added tax (VAT) or sales tax. In addition, the cost to export and cost to import for each year are divided by the GDP deflator, to take the general price level into account when benchmarking these absolute-cost indicators across economies with different inflation trends. The base year for the deflator is 2013 for all economies.

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, 2 rules were defined: the 95th percentile is used for the indicators with the most dispersed distributions (including time, cost, minimum capital and number of payments to pay taxes), and the 99th percentile is used for number of procedures and number of documents to trade. No outlier was 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 15.1 in the *Doing Business 2015* report).

Second, for each economy the scores obtained for individual indicators 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*⁶. Thus *Doing Business* uses the simplest

⁶ See Djankov, Manraj and others (2005). Principal components and unobserved components methods yield a ranking nearly identical to

method: weighting all topics equally and, within each topic, giving equal weight to each of the topic components⁷.

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 5 decimals. However, indicator ranking calculations and the ease of doing business ranking calculations are based on 2 decimals. The difference between an economy's distance to frontier score in any previous year and its score in 2014 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

This year, for the first time, 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 in the calculation done in previous years (line B is smaller than line A in figure 15.2 of the *Doing Business 2015* 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 before (line D is bigger than line C in figure 15.2 of the *Doing Business 2015* 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

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.

⁷ 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

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 for which a second city was added in this year's report, the distance to frontier score is calculated as the population-weighted average of the distance to frontier scores for the 2 cities covered (table 12.1). This is done for the aggregate score, the scores for each topic and the scores for all the component indicators for each topic.

Table 12.1 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 2013/14

Doing Business 2015 uses a simple method to calculate which economies improved the ease of doing business the most. First, it selects the economies that in 2013/14 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. Twenty-one economies meet this criterion: Azerbaijan; Benin; the Democratic Republic of Congo; Côte d'Ivoire; the Czech Republic; Greece; India; Ireland; Kazakhstan; Lithuania; the former Yugoslav Republic of Macedonia; Poland; Senegal; the Seychelles; Spain; Switzerland; Taiwan, China; Tajikistan; Togo; Trinidad and Tobago; and the United Arab Emirates. 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 3 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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Abstracts of papers on *Doing Business* topics and related policy issues
<http://www.doingbusiness.org/research>

***Doing Business* reforms**

Short summaries of DB2015 business regulation reforms, lists of reforms since DB2008 and a ranking simulation tool
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Historical data

Customized data sets since DB2004
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Law library

Online collection of business laws and regulations relating to business
<http://www.doingbusiness.org/law-library>

Contributors

More than 10,700 specialists in 189 economies who participate in *Doing Business*
<http://www.doingbusiness.org/contributors/doing-business>

Entrepreneurship data

Data on business density (number of newly registered companies per 1,000 working-age people) for 139 economies
<http://www.doingbusiness.org/data/exploretopics/entrepreneurship>

Distance to frontier

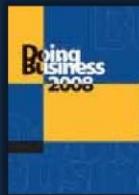
Data benchmarking 189 economies to the frontier in regulatory practice
<http://www.doingbusiness.org/data/distance-to-frontier>

Information on good practices

Showing where the many good practices identified by *Doing Business* have been adopted
<http://www.doingbusiness.org/data/good-practice>

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Doing Business at a Glance—presenting the full report, rankings and highlights for each topic for the iPhone, iPad and iPod touch
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