

Economy Profile: Denmark

Doing business in a more transparent world

COMPARING REGULATION FOR DOMESTIC FIRMS IN 183 ECONOMIES

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

Denmark

In a series of annual reports *Doing Business* presents quantitative indicators on business regulations and the protection of property rights that can be compared across 183 economies, from Afghanistan to Zimbabwe, over time. The data set covers 46 economies in Sub-Saharan Africa, 32 in Latin America and the Caribbean, 24 in East Asia and the Pacific, 24 in Eastern Europe and Central Asia, 18 in the Middle East and North Africa and 8 in South Asia, as well as 31 OECD highincome 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 Denmark. To allow useful comparison, it also provides data for other selected economies (comparator economies) for each indicator. The data in this report are current as of June 1, 2011 (except for

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

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

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

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

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

ECONOMY OVERVIEW

Region: OECD high income Income category: High income Population: 5,565,020 GNI per capita (US\$): 58,980.00 DB2012 rank: 5 DB2011 rank: 5

Change in rank: 0

Note: See the data notes for sources and definitions.

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

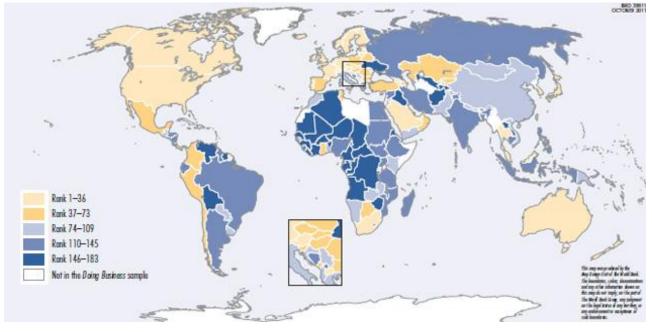
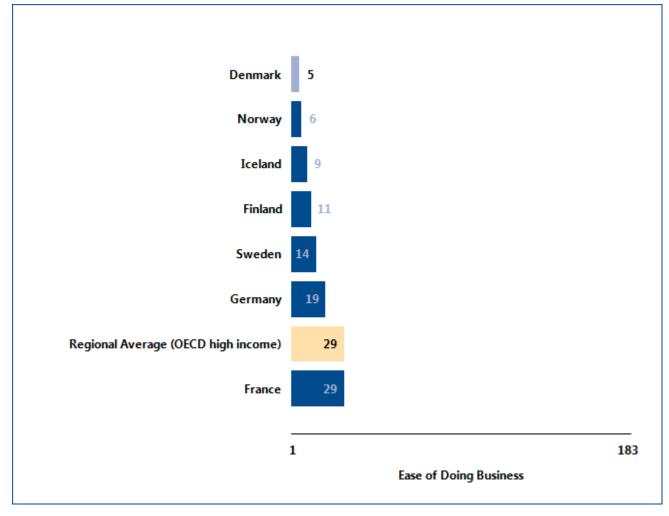


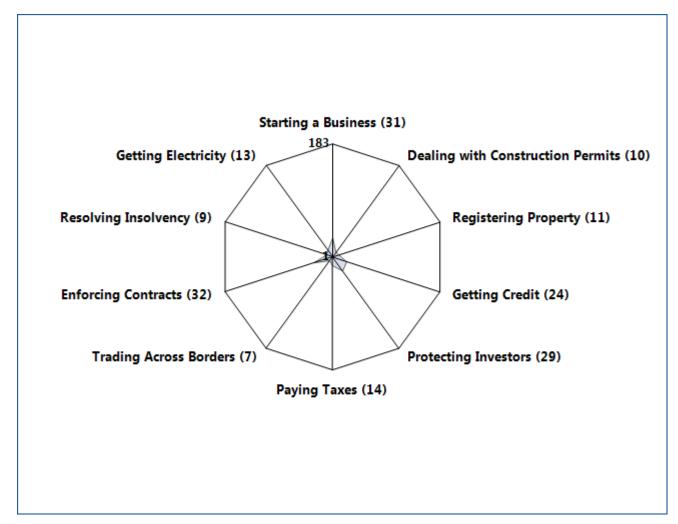
Figure 1.1 Where economies stand in the global ranking on the ease of doing business

For policy makers, knowing where their economy stands in the aggregate ranking on the ease of doing business is useful. Also useful is to know how it ranks compared with other economies and compared with the regional average (figure 1.2). The economy's rankings on the topics included in the ease of doing business index provide another perspective (figure 1.3).









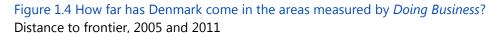
Source: Doing Business database.

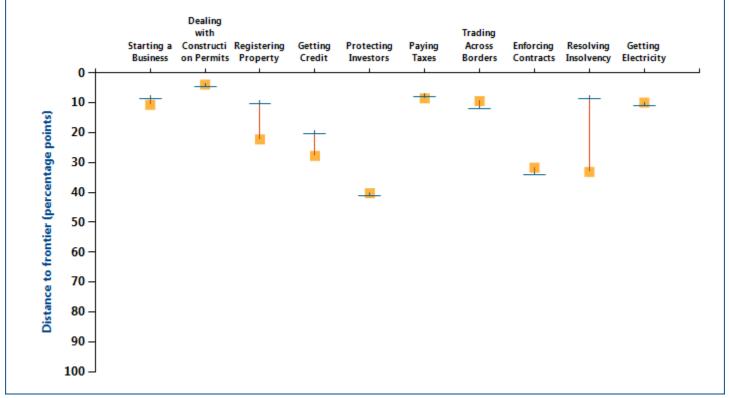
Just as the overall ranking on the ease of doing business tells only part of the story, so do changes in that ranking. Yearly movements in rankings can provide some indication of changes in an economy's regulatory environment for firms, but they are always relative. An economy's ranking might change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

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

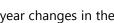
This measure shows the distance of each economy to the "frontier," a synthetic measure based on the most efficient practice or highest score observed for each Doing Business indicator across all economies and years included in the Doing Business sample since 2005. Nine areas of business regulation are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

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





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



The 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 Denmark

Indicator	Denmark DB2012	Denmark DB2011	Finland DB2012	France DB2012	Germany DB2012	Iceland DB2012	Norway DB2012	Sweden DB2012	Best performer globally DB2012	
Starting a Business (rank)	31	27	39	25	98	37	41	46	New Zealand (1)	
Procedures (number)	4	4	3	5	9	5	5	3	Canada (1)*	
Time (days)	6	6	14	7	15	5	7	15	New Zealand (1)	
Cost (% of income per capita)	0.0	0.0	1.0	0.9	4.6	3.3	1.8	0.6	Denmark (0.0)*	
Paid-in Min. Capital (% of income per capita)	25.0	26.0	7.3	0.0	0.0	12.6	19.4	14.0	82 Economies (0.0)*	
Dealing with Construction Permits (rank)	10	10	45	30	15	34	60	23	Hong Kong SAR, China (1)	
Procedures (number)	5	5	16	10	9	17	11	7	Denmark (5)	
Time (days)	67	67	66	184	97	74	250	116	Singapore (26)*	
Cost (% of income per capita)	59.1	61.3	66.6	13.6	49.7	20.6	33.1	81.6	Qatar (1.1)	

Indicator	Denmark DB2012	Denmark DB2011	Finland DB2012	France DB2012	Germany DB2012	Iceland DB2012	Norway DB2012	Sweden DB2012	Best performer globally DB2012	
Getting Electricity (rank)	13	13	25	62	2	1	12	8	Iceland (1)	
Procedures (number)	4	4	5	5	3	4	4	3	Germany (3)*	
Time (days)	38	38	53	123	17	22	66	52	Germany (17)	
Cost (% of income per capita)	120.6	128.2	31.7	40.2	49.9	13.6	7.1	20.7	Japan (0.0)	
Registering Property (rank)	11	29	25	149	77	11	8	19	New Zealand (3)	
Procedures (number)	3	3	3	8	5	3	1	1	Portugal (1)*	
Time (days)	16	42	14	59	40	4	3	7	Portugal (1)	
Cost (% of property value)	0.6	0.6	4.0	6.1	5.2	2.4	2.5	4.3	Slovak Republic (0.0)	
Getting Credit (rank)	24	21	40	48	24	40	48	48	United Kingdom (1)*	
Strength of legal rights index (0-10)	9	9	8	7	7	7	7	7	New Zealand (10)*	
Depth of credit information index (0-6)	4	4	4	4	6	5	4	4	Japan (6)*	
Public registry coverage (% of adults)	0.0	0.0	0.0	43.3	1.3	0.0	0.0	0.0	Portugal (86.2)	
Private bureau coverage (% of adults)	7.3	5.4	20.5	0.0	100.0	100.0	100.0	100.0	New Zealand (100.0)*	
Protecting Investors (rank)	29	28	65	79	97	46	24	29	New Zealand (1)	
Extent of disclosure index (0-10)	7	7	6	10	5	7	7	8	France (10)*	

Indicator	Denmark DB2012	Denmark DB2011	Finland DB2012	France DB2012	Germany DB2012	Iceland DB2012	Norway DB2012	Sweden DB2012	Best performer globally DB2012	
Extent of director liability index (0-10)	5	5	4	1	5	5	6	4	Singapore (9)*	
Ease of shareholder suits index (0-10)	7	7	7	5	5	6	7	7	New Zealand (10)*	
Strength of investor protection index (0-10)	6.3	6.3	5.7	5.3	5.0	6.0	6.7	6.3	New Zealand (9.7)	
Paying Taxes (rank)	14	12	28	58	89	35	27	50	Canada (8)	
Payments (number per year)	10	10	8	7	12	29	4	4	Norway (4)	
Time (hours per year)	135	135	93	132	221	140	87	122	Luxembourg (59)	
Trading Across Borders (rank)	7	6	6	24	12	81	9	8	Singapore (1)	
Documents to export (number)	4	4	4	2	4	5	4	3	France (2)	
Time to export (days)	5	5	8	9	7	19	7	8	Hong Kong SAR, China (5)*	
Cost to export (US\$ per container)	744	744	540	1078	872	1532	830	697	Malaysia (450)	
Documents to import (number)	3	3	5	2	5	5	4	3	France (2)	
Time to import (days)	5	5	8	11	7	14	7	6	Singapore (4)	
Cost to import (US\$ per container)	744	744	620	1248	937	1674	729	735	Malaysia (435)	
Enforcing Contracts (rank)	32	30	11	6	8	3	4	54	Luxembourg (1)	

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Indicator	Denmark DB2012	Denmark DB2011	Finland DB2012	France DB2012	Germany DB2012	Iceland DB2012	Norway DB2012	Sweden DB2012	Best performer globally DB2012
Time (days)	410	410	375	331	394	417	280	508	Singapore (150)
Cost (% of claim)	23.3	23.3	13.3	17.4	14.4	8.2	9.9	31.2	Bhutan (0.1)
Procedures (number)	35	35	33	29	30	27	34	30	Ireland (21)*
Resolving Insolvency (rank)	9	5	5	46	36	11	4	19	Japan (1)
Time (years)	1.0	1.1	0.9	1.9	1.2	1.0	0.9	2.0	Ireland (0.4)
Cost (% of estate)	4	4	4	9	8	4	1	9	Singapore (1)*
Recovery rate (cents on the dollar)	87.3	89.4	89.1	45.8	53.8	84.5	90.6	75.8	Japan (92.7)

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

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

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

What do the indicators cover?

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

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

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

WHAT THE STARTING A BUSINESS

INDICATORS MEASURE

Procedures to legally start and operate a company (number)

Preregistration (for example, name verification or reservation, notarization)

Registration in the economy's largest business city

Postregistration (for example, social security registration, company seal)

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day

Procedure completed once final document is received

No prior contact with officials

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

Official costs only, no bribes

No professional fees unless services required by law

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

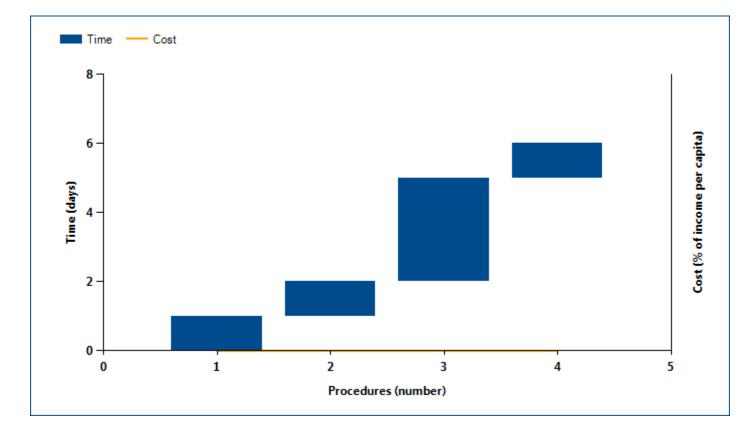
Deposited in a bank or with a notary before registration (or within 3 months)

- Has a start-up capital of 10 times income per capita.
- Has a turnover of at least 100 times income per capita.
- Does not qualify for any special benefits.
- Does not own real estate.
- Is 100% domestically owned.

Where does the economy stand today?

What does it take to start a business in Denmark? According to data collected by *Doing Business*, starting a business there requires 4 procedures, takes 6 days,

Figure 2.1 What it takes to start a business in Denmark Paid-in minimum capital (% of income per capita): 25.0 costs 0.0% of income per capita and requires paid-in minimum capital of 25.0% of income per capita (figure 2.1).

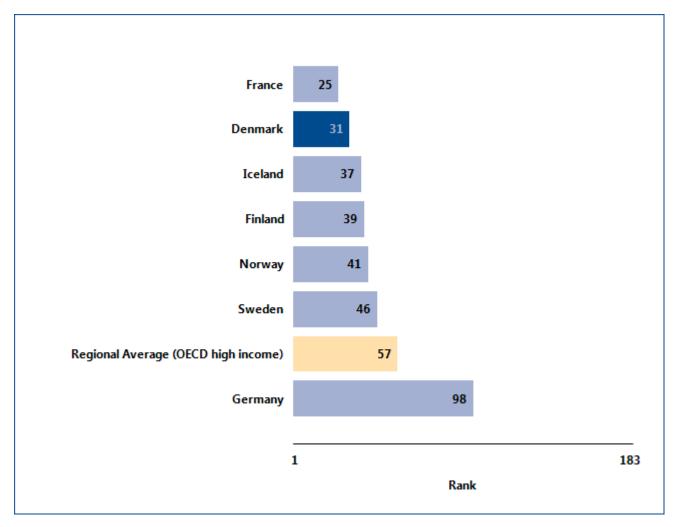


Note: For details on the procedures reflected here, see the summary at the end of this chapter. *Source: Doing Business* database.

Globally, Denmark stands at 31 in the ranking of 183 economies on the ease of starting a business (figure 2.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to start a business in Denmark today, data over time show which aspects of the process have changed—and which have not (table 2.1). That can help identify where the potential for improvement is greatest.

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

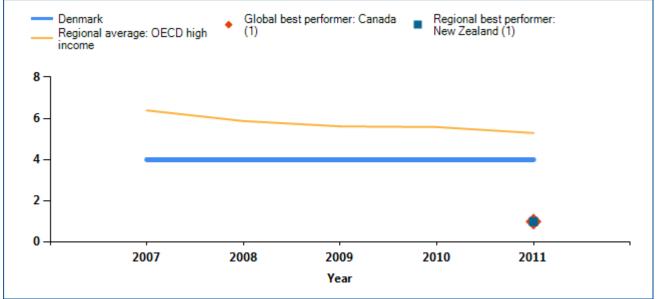
Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank								27	31
Procedures (number)	5	5	4	4	4	4	4	4	4
Time (days)	7	7	6	6	6	6	6	6	6
Cost (% of income per capita)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Paid-in Min. Capital (% of income per capita)	49.8	48.8	47.0	44.6	40.7	40.1	38.6	26.0	25.0

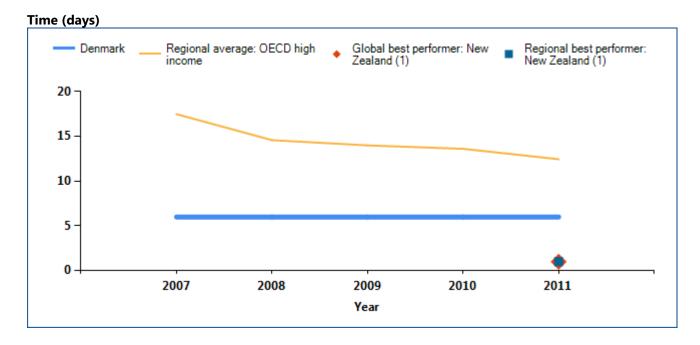
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time, cost or paid-in minimum capital required to start a business (figure 2.3). These economies may provide a model for Denmark on ways to improve the ease of starting a business. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

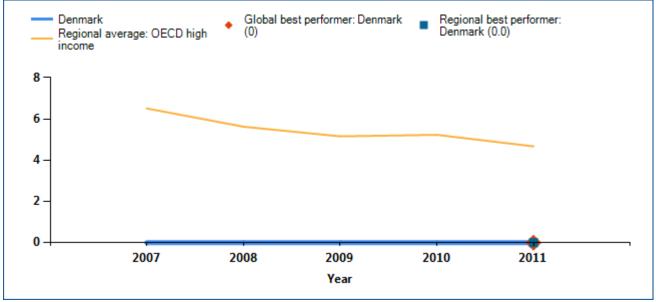
Figure 2.3 Has starting a business become easier over time?



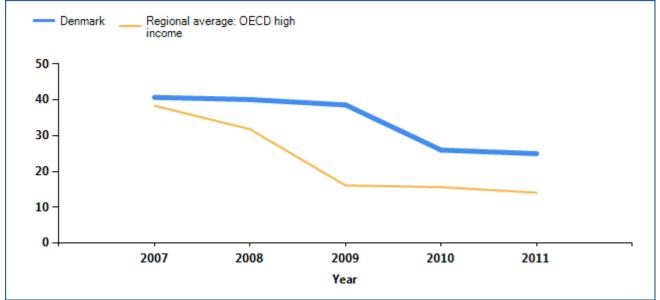




Cost (% of income per capita)



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



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

Source: Doing Business database.

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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 Denmark (table 2.2)?

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

DB Year	Reform
DB2012	No reform.
DB2011	Denmark eased business start-up by reducing the minimum capital requirement for limited liability companies from 125,000 Danish kroner (\$22,850) to 80,000 Danish kroner (\$14,620).
DB2010	No reform.
DB2009	No reform.

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

What are the details?

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

STANDARDIZED COMPANY

City: Copenhagen

Legal Form: Anpartsselskab (ApS) Start-up capital: 10 times GNI per capita Paid-in minimum capital (% of income per

capita): 25.0

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

No.	Procedure	Time to complete	Cost to complete
	Obtain a NemID signature		
1	The NemID can be obtained from www.nemid.dk. The new NemID was launched in July 2010 as an improvement on the previous Digital Signature.	1 day	no charge
	Deposit startup capital at a bank		
2	A private limited company (ApS) must have a startup capital of at least DKK 80,000.00. An amount equal to 25 % of the share capital, but not less than DKK 80,000.00, must be paid up at all.	1 day	no charge
3	Register the company with the Danish Commercial and Companies Agency over Webreg system The DCCA provides a one-stop centralized service for business and tax registrations when a new limited liability company is registered. The website www.webreg.dk captures new and updatedcompany information and is connected to a database that automatically validates the input data. The registration form may be completed and submitted electronically with the Memorandum of Association and the Articles of Association. The entire process takes place online, without the involvement of any agency official. For online registration, the registration is immediate. To secure payment of the startup capital, lawyers, accountants or bank employees may log on to the Capital Information page on www.webreg.dk and confirm the type and amount of capital by using their NemID (digital signature). On completion of the registration process, the client receives a registration receipt by email,	1 day (20 minutes) for company registration, 3 days for tax registration	no charge

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No.	Procedure	Time to complete	Cost to complete
	stating a unique business identification number (CVR) and confirmation that the registration is visible at www.cvr.dk, where the National Gazette is published electronically.		
4	Register employees with workmen's insurance Employees must be insured against industrial accidents and occupational illnesses. The chosen insurance company must complete a form and register the insurance policy with the DCCA. If the new business has a car, motor insurance must also be purchased. More information on insurance companies can be found at www.forsikringogpension.dk.	1 day	no charge

* Takes place simultaneously with another procedure.

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

What do the indicators cover?

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

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

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

The business:

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

The warehouse:

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

WHAT THE DEALING WITH CONSTRUCTION

PERMITS INDICATORS MEASURE

Procedures to legally build a warehouse (number)

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

Completing all required notifications and receiving all necessary inspections

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

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

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day

Procedure completed once final document is received

No prior contact with officials

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

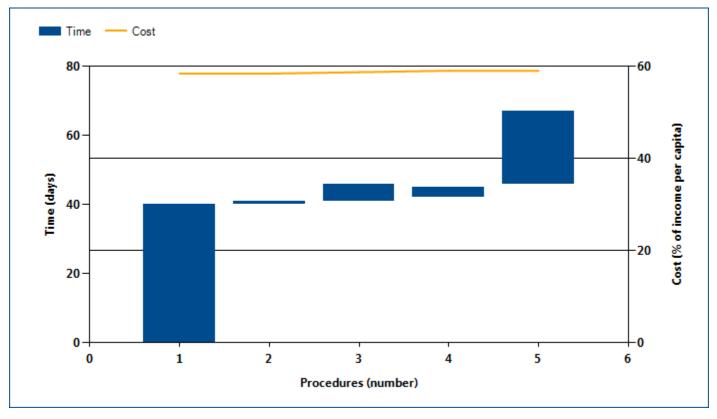
Official costs only, no bribes

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

Where does the economy stand today?

What does it take to comply with the formalities to build a warehouse in Denmark? According to data collected by *Doing Business*, dealing with construction permits there requires 5 procedures, takes 67 days and costs 59.1% of income per capita (figure 3.1).

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

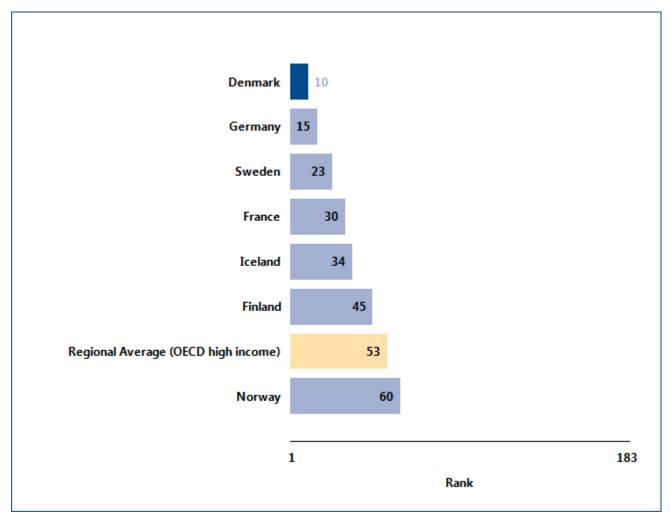


Note: For details on the procedures reflected here, see the summary at the end of this chapter. *Source: Doing Business* database.

Globally, Denmark stands at 10 in the ranking of 183 economies on the ease of dealing with construction permits (figure 3.2). The rankings for comparator economies and the regional average ranking provide

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

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



What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to deal with construction permits in Denmark today, data over time show which aspects of the process have changed—and which have not (table 3.1). That can help identify where the potential for improvement is greatest.

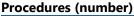
Table 3.1 The ease of dealing with construction permits in Denmark over time By *Doing Business* report year

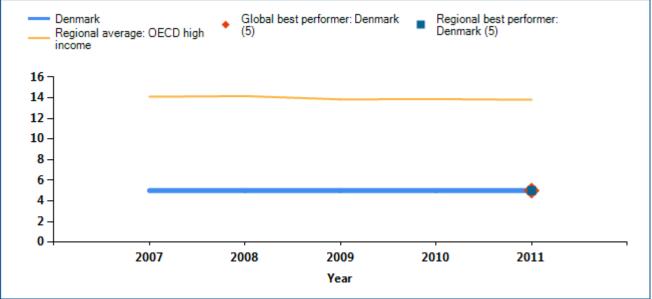
Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank						10	10
Procedures (number)	5	5	5	5	5	5	5
Time (days)	67	67	67	67	67	67	67
Cost (% of income per capita)	71.0	67.4	61.4	60.6	58.4	61.3	59.1

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

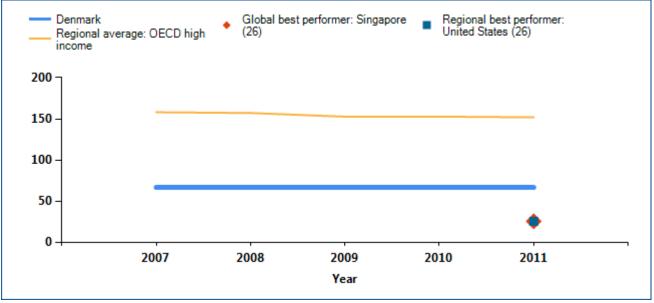
Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time or cost required to deal with construction permits (figure 3.3). These economies may provide a model for Denmark on ways to improve the ease of dealing with construction permits. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

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

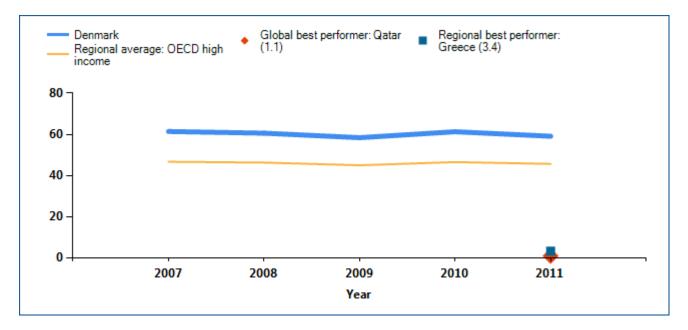








Cost (% of income per capita)



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

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 Denmark (table 3.2)?

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

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

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

What are the details?

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

BUILDING A WAREHOUSE				
City :	Copenhagen			
Estimated Warehouse Value :	DKK 14,957,000			

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

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

No.	Procedure	Time to complete	Cost to complete
1	Request and obtain permit to start the construction works at the Municipality BuildCo does not need to prepare any background information. The builder needs to prepare relevant drawings of the building to be constructed, including sewage and fire protection. On this basis, the authorities will themselves check whether the construction complies with area plans and relevant legislation, particularly legislation on fire protection. The authorities may conduct on-site inspections before issuing a permit, but this is not normal. To process the warehouse permit application, the authorities will check all relevant documents. Thus, the entire process is covered by a single procedure that covers examining the area plan, checking plans and drawings, checking the lot plan, securing fire department permission, issuing a temporary building permit, issuing the structural engineer certificate, checking the rain water drainage, and checking building compliance with the Real Estate Registry's regulations and requirements for registration and specific projects.	40 days	DKK 186,875
2	Receive construction inspection from the supervising authority During the construction process, the municipality does not generally inspect construction. If conducted, such inspections will normally include inspections by the relevant fire, sewerage, or worker safety authorities. Such inspections are carried out without prior notice. They do generally not pose delays barring lack of compliance with relevant legislation.	1 day	no charge
3	Request and receive connection to water and sewage Utilities connections are established by agreement with local suppliers. The time and cost depend on the supplier.	5 days	DKK 1,000

No.	Procedure	Time to complete	Cost to complete
4	* Request and receive connection to telephone Utilities connections are established by agreement with local suppliers. The time and cost depend on the supplier.	3 days	DKK 1,000
5	Receive final inspection and obtain occupancy permit To grant the usage permit, the authorities primarily check fire protection and compliance with other construction requirements. This is done by one inspection normally carried out during one day and that can normally be initiated within a few weeks of submitting the application. Time may vary greatly, depending on compliance with relevant legislation. If the building complies with the regulations, in most municipalities the permit may be obtained in a few weeks.	21 days	no charge

* Takes place simultaneously with another procedure. *Source: Doing Business* database.

GETTING ELECTRICITY

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

What do the indicators cover?

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

The warehouse:

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

The electricity connection:

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

WHAT THE GETTING ELECTRICITY

INDICATORS MEASURE

Procedures to obtain an electricity connection (number)

Submitting all relevant documents and obtaining all necessary clearances and permits

Completing all required notifications and receiving all necessary inspections

Obtaining external installation works and possibly purchasing material for these works

Concluding any necessary supply contract and obtaining final supply

Time required to complete each procedure (calendar days)

Is at least 1 calendar day

Each procedure starts on a separate day

Does not include time spent gathering information

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

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

Official costs only, no bribes

Excludes value added tax

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

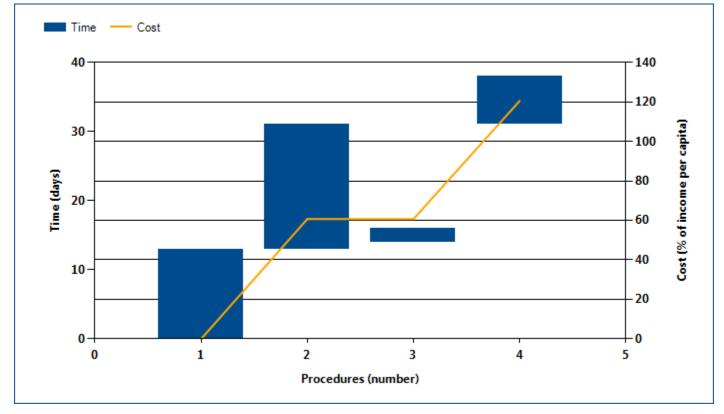
GETTING ELECTRICITY

Where does the economy stand today?

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

procedures, takes 38 days and costs 120.6% of income per capita (figure 4.1).



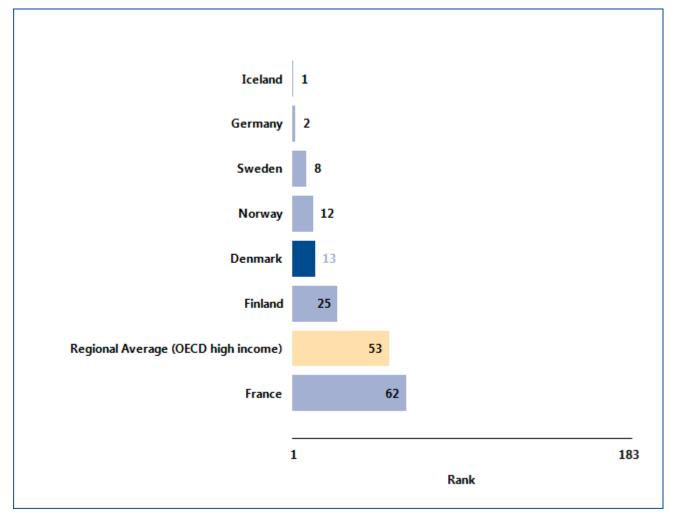


Note: For details on the procedures reflected here, see the summary at the end of this chapter. *Source: Doing Business* database.

Globally, Denmark stands at 13 in the ranking of 183 economies on the ease of getting electricity (figure 4.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

Even more helpful than rankings for other economies may be the indicators underlying those rankings (table 4.1). If obtaining a new electricity connection requires fewer procedures, less time or less cost in other economies, the practices of their utilities may provide a model for Denmark on ways to improve the ease of getting electricity. Regional and global averages on these indicators may provide useful benchmarks.

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

Indicator	Denmark	Finland	France	Germany	Iceland	Norway	Sweden	OECD high income average	Global average
Rank	13	25	62	2	1	12	8	53	
Procedures (number)	4	5	5	3	4	4	3	5	5
Time (days)	38	53	123	17	22	66	52	103	111
Cost (% of income per capita)	120.6	31.7	40.2	49.9	13.6	7.1	20.7	92.8	1,942.3

GETTING ELECTRICITY

What are the details?

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

OBTAINING AN ELECTRICITY CONNECTION City: Copenhagen

Name of Utility: Dong Energy

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

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

No.	Procedure	Time to complete	Cost to complete	
	Authorized electrical contractor applies for electricity connection on behalf of the client and awaits conditions for the connection from DONG Energy			
	In order to ensure that specific legal requirements are fulfilled, an electrical contractor authorized by the Danish Safety Technology Authority (DSTA) needs to be assigned to do the external works. The same contractor can also do the internal wiring.	13 calendar days	no charge	
1	More information on the requirements and documentation needed to apply for certification with the DSTA can be found at: http://www.ciriusonline.dk/ Information can also be found on the Authority website at: http://www.sik.dk/Global/English			
	The authorized electrician submits an online application form to the utility, DONG Energy. The authorized electrician has an authorization number, which allows him to log on to the utility's homepage and submit an online installation application form. For installations of more than 63 A (as in the assumed case), in addition to the form, the electrician needs to submit drawings of the meter and installations board, and a test protocol for the power transformers (if needed).			
	The utility will assign a connection point to which the client's electrician will need to connect the cable. The utility has exact maps of the site location and thus does not carry out an inspection of the site to determine the connection point.			

No.	Procedure	Time to complete	Cost to complete
	The utility will also estimate the connection fees that the client will need to pay and that will include all the works carried out by DONG Energy (meter, labor, etc.).		
	Authorized electrical contractor buys material for external works, completes works, and registers them with DONG Energy		
2	The authorized electrical contractor can start theirs works immediately after receiving the application form back and after the client has paid the invoice with the connection fees. Most electricians will be able to start within few days. The authorized contractor will be in charge of necessary ground work (layout of cables) to reach the connection point in the supply network, and the utility will be responsible for connection up to the supply network (installation of meter in the main switch-board). The electrical contractor will need to buy the main cable for the external works. If new private substations are needed for bigger building projects, the utility sends information to the customer after receiving the installation application form. In this case, the customer will need to bear the corresponding costs. In the case where digging in public areas is necessary, the electrical contractor will need to apply for an excavation permit. When the authorized contractor has completed the works up to the connection point, they will need to notify DONG Energy by registering the internal and external installations.	#VALUE!	DKK 194,062.1
3	* Authorized electrical contractor applies for and obtains excavation permit from the Kommune (local authority) The authorized electrical contractor will need to obtain an excavation permit in order to dig in public land and lay out a cable.	2 calendar days	no charge
4	The client's electrical contractor registers their works; client obtains meter installation and electricity turn-on from DONG Energy When the electrical contractor has registered the works, the utility can come install the meter and turn on electricity.	7 calendar days	DKK 191,298.6

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

What do the indicators cover?

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

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

The parties (buyer and seller):

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

The property (fully owned by the seller):

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

WHAT THE REGISTERING PROPERTY

INDICATORS MEASURE

Procedures to legally transfer title on immovable property (number)

- Preregistration (for example, checking for liens, notarizing sales agreement, paying property transfer taxes)
- Registration in the economy's largest business city
- Postregistration (for example, filing title with the municipality)

Time required to complete each procedure (calendar days)

Does not include time spent gathering information

Each procedure starts on a separate day

- Procedure completed once final document is received
- No prior contact with officials

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

Official costs only, no bribes

No value added or capital gains taxes included

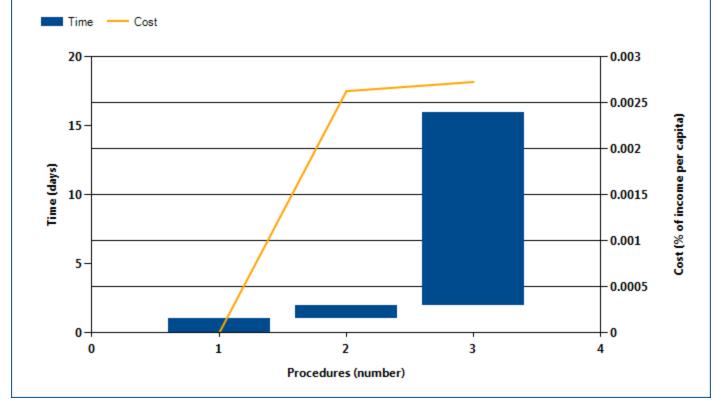
- Has no mortgages attached and has been under the same ownership for the past 10 years.
- Consists of 557.4 square meters (6,000 square feet) of land and a 10-year-old, 2-story warehouse of 929 square meters (10,000 square feet). The warehouse is in good condition and complies with all safety standards,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

Where does the economy stand today?

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

procedures, takes 16 days and costs 0.6% of the property value (figure 5.1).



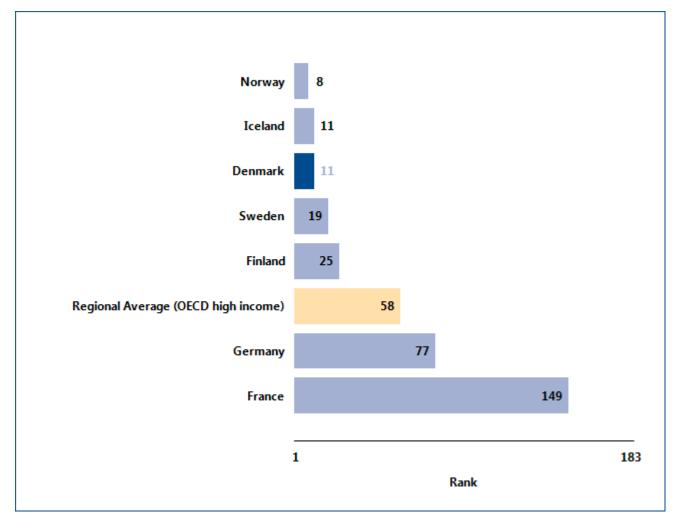


Note: For details on the procedures reflected here, see the summary at the end of this chapter. *Source: Doing Business* database.

Globally, Denmark stands at 11 in the ranking of 183 economies on the ease of registering property (figure 5.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

What are the changes over time?

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

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

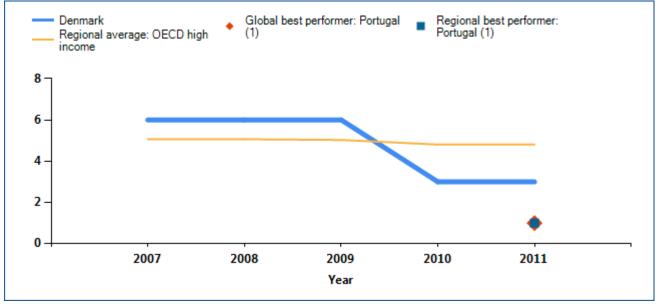
Indicator	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank							29	11
Procedures (number)	6	6	6	6	6	6	3	3
Time (days)	42	42	42	42	42	42	42	16
Cost (% of property value)	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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

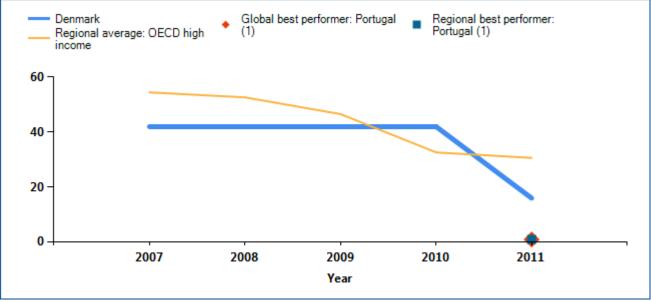
Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the procedures, time or cost required to complete a property transfer (figure 5.3). These economies may provide a model for Denmark on ways to improve the ease of registering property. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

Figure 5.3 Has registering property become easier over time?

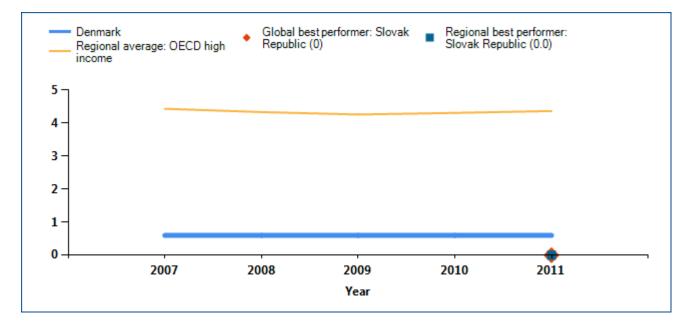
Procedures (number)



Time (days)



Cost (% of property value)



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

Economies worldwide have been making it easier for entrepreneurs to register and transfer property—such as by computerizing land registries, introducing time limits for procedures and setting low fixed fees. Many have cut the time required substantially—enabling buyers to use or mortgage their property earlier. What property registration reforms has *Doing Business* recorded in Denmark (table 5.2)?

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

DB Year	Reform
DB2012	No reform.
DB2011	Computerization of Denmark's land registry cut the number of procedures required to register property by half.
DB2010	No reform.
DB2009	No reform.

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

What are the details?

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

STANDARD PROPERTY TRANSFER

City:	Copenhagen
Property Value:	15,976,950.6

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

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

No.	Procedure	Time to complete	Cost to complete
1	Obtain relevant documents at the Land Registry online The following documents are obtained at the Land Registry: • copy of entries on the land register (DKK 175) • transcript of owner's property return (DKK 70) • copies of easements and other encumbrances registered on the property (DKK 175) These documents are obtained online. It is necessary to previously register with the land registry and get a user name, as well as pay for every enquiry. The more you pay, the more information is available online (max 175 DKK). In general, professional are the usual subscribers to the Land registry.	1 day	DKK 420
2	Obtain a transcript from the Danish Commerce and Companies Agency documenting the power to bind the buyer The buyer or the representative obtains transcript from the Danish Commerce and Companies Agency documenting the power to bind the buyer. The buyer or the buyer's representative prepares a conveyance (sale contract), which is signed by the buyer and the seller.	1 day	DKK 16
3	Apply for registration with the Land Registry online A deed is prepared containing the relevant details from the Sale Agreement. Anyone can write the deed. Normally a lawyer (conveyancer) writes the deed, but it is not mandatory. The title deed must be prepared in accordance with formal requirements laid down in or pursuant to the Land Register Act, which also states that the issuer's signature must be confirmed by two witnesses or a lawyer. At this moment, ownership is transferred, but it is still necessary to register with the land registry in order to make it opposable to third parties.	14 days	DKK 1,400 + 0.6% of transaction price (Registration fee)

Denmark

No.	Procedure	Time to complete	Cost to complete
	Registration is made online and the system sends back an email immediately mentioning that the transaction is now complete. The registration fee is paid at the Land registry.		

* Takes place simultaneously with another procedure.

Denmark

GETTING CREDIT

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

What do the indicators cover?

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

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

WHAT THE GETTING CREDIT INDICATORS MEASURE

Strength of legal rights index (0–10)

Protection of rights of borrowers and lenders through collateral laws

Protection of secured creditors' rights through bankruptcy laws

Depth of credit information index (0–6)

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

Public credit registry coverage (% of adults)

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

Private credit bureau coverage (% of adults)

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

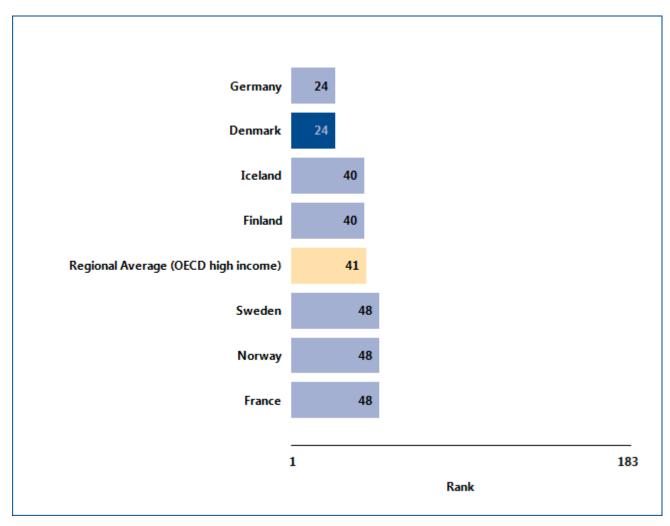
- Has 100 employees.
- Is 100% domestically owned, as is the lender.

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

Where does the economy stand today?

How well do the credit information system and collateral and bankruptcy laws in Denmark facilitate access to credit? The economy has a score of 4 on the depth of credit information index and a score of 9 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, Denmark stands at 24 in the ranking of 183 economies on the ease of getting credit (figure 6.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how well regulations and institutions in Denmark support lending and borrowing.

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



What are the changes over time?

While the most recent *Doing Business* data reflect how well the credit information system and collateral and bankruptcy laws in Denmark support lending and borrowing today, data over time can help show where institutions and regulations have been strengthened and where they have not (table 6.1). That can help identify where the potential for improvement is greatest.

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

Indicator	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank							21	24
Strength of legal rights index (0-10)	8	8	9	9	9	9	9	9
Depth of credit information index (0-6)	4	4	4	4	4	4	4	4
Public registry coverage (% of adults)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Private bureau coverage (% of adults)	7.1	7.7	11.5	11.5	5.0	5.2	5.4	7.3

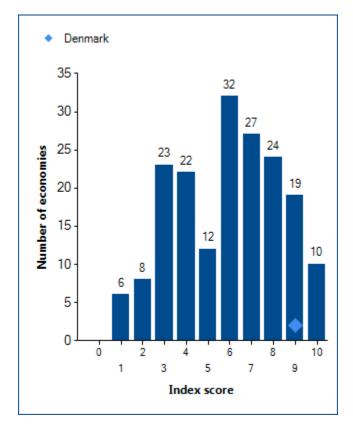
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

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

Denmark

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

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

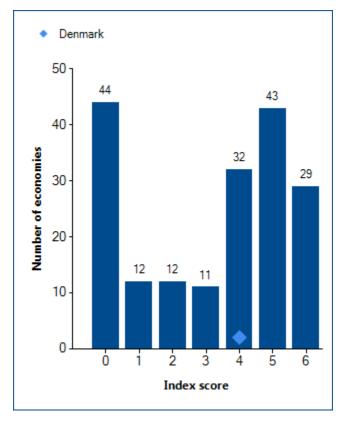


Source: Doing Business database.

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

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

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



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 Denmark (table 6.2)?

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

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

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

What are the details?

The getting credit indicators reported here for Denmark are based on detailed information collected in that economy. The data on credit information sharing are collected through a survey of a public credit registry or private credit bureau (if one exists). To construct the depth of credit information index, a score of 1 is assigned for each of 6 features of the public credit registry or private credit bureau (see summary of scoring below). The data on the legal rights of borrowers and lenders are gathered through a survey of financial lawyers and verified through analysis of laws and regulations as well as public sources of information on collateral and bankruptcy laws. For the strength of legal rights index, a score of 1 is assigned for each of 8 aspects related to legal rights in collateral law and 2 aspects in bankruptcy law.

Summary of scoring for the getting credit indicators in Denmark

Indicator	Denmark	OECD high income	OECD high income
Strength of legal rights index (0-10)	9		7
Depth of credit information index (0-6)	4		5
Public registry coverage (% of adults)	0.0		9.5
Private bureau coverage (% of adults)	7.3		63.9

Strength of legal rights index (0–10)	Index score: 9
Can any business use movable assets as collateral while keeping possession of the assets; and any financial institution accept such assets as collateral ?	Yes
Does the law allow businesses to grant a non possessory security right in a single category of movable assets, without requiring a specific description of collateral?	Yes
Does the law allow businesses to grant a non possessory security right in substantially all of its assets, without requiring a specific description of collateral?	Yes
May a security right extend to future or after-acquired assets, and may it extend automatically to the products, proceeds or replacements of the original assets ?	Yes
Is a general description of debts and obligations permitted in collateral agreements; can all types of debts and obligations be secured between parties; and can the collateral agreement include a maximum amount for which the assets are encumbered?	Yes
Is a collateral registry in operation, that is unified geographically and by asset type, with an electronic database indexed by debtor's names?	Yes
Are secured creditors paid first (i.e. before general tax claims and employee claims) when a debtor defaults outside an insolvency procedure?	Yes

Strength of legal rights index (0–10)	Index score: 9
Are secured creditors paid first (i.e. before general tax claims and employee claims) when a business is liquidated?	Yes
Are secured creditors either not subject to an automatic stay or moratorium on enforcement procedures when a debtor enters a court-supervised reorganization procedure, or the law provides secured creditors with grounds for relief from an automatic stay or	Yes
Does the law allow parties to agree in a collateral agreement that the lender may enforce its security right out of court, at the time a security interest is created?	No

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

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

Coverage	Private credit bureau	Public credit registry
Number of firms	43,502	0
Number of individuals	219,985	0

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

What do the indicators cover?

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

The business (Buyer):

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

The transaction involves the following details:

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

WHAT THE PROTECTING INVESTORS

INDICATORS MEASURE

Extent of disclosure index (0–10)

Who can approve related-party transactions

Disclosure requirements in case of relatedparty transactions

Extent of director liability index (0–10)

Ability of shareholders to hold interested parties and members of the approving body liable in case of related-party transactions

Available legal remedies (damages, repayment of profits, fines, imprisonment and rescission of the transaction)

Ability of shareholders to sue directly or derivatively

Ease of shareholder suits index (0–10)

Access to internal corporate documents (directly or through a government inspector)

Documents and information available during trial

Strength of investor protection index (0–10)

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

the company purchase used trucks from another company he owns.

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

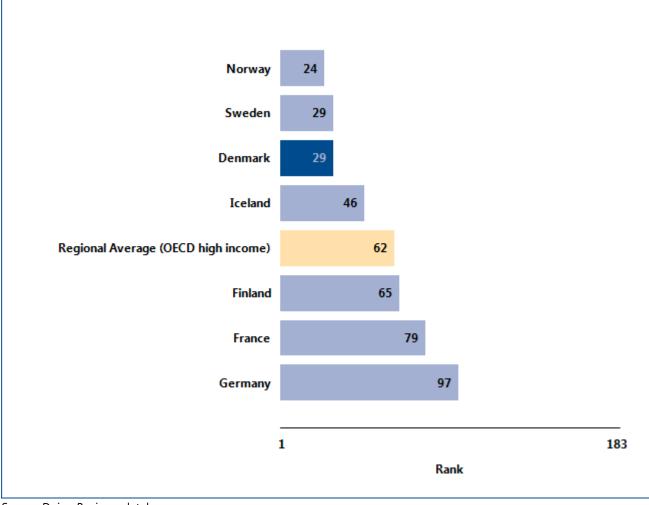
Where does the economy stand today?

How strong are investor protections in Denmark? The economy has a score of 6.3 on the strength of investor protection index, with a higher score indicating stronger protections (see the summary of scoring at the end of this chapter for details).

Globally, Denmark stands at 29 in the ranking of 183 economies on the strength of investor protection

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

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



Source: Doing Business database.

What are the changes over time?

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

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

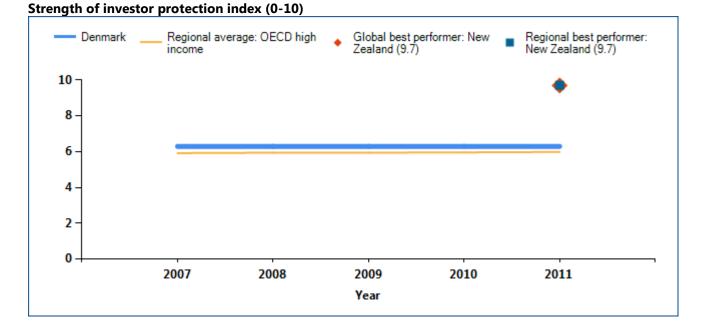
Table 7.1 The strength of investor protections in Denmark over time By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank						28	29
Extent of disclosure index (0-10)	7	7	7	7	7	7	7
Extent of director liability index (0-10)	5	5	5	5	5	5	5
Ease of shareholder suits index (0-10)	7	7	7	7	7	7	7
Strength of investor protection index (0-10)	6.3	6.3	6.3	6.3	6.3	6.3	6.3

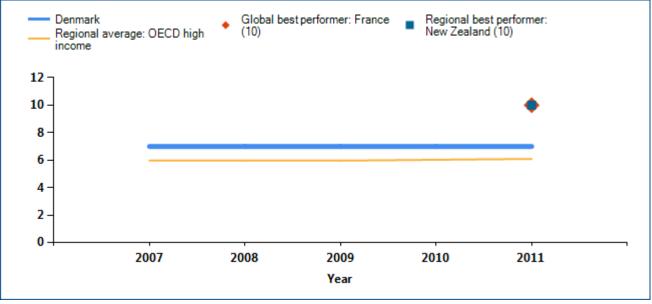
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

But the overall ranking on the strength of investor protection index tells only part of the story. Economies may offer strong protections in some areas but not others. So the scores recorded over time for Denmark on the extent of disclosure, extent of director liability and ease of shareholder suits indices may also be revealing (figure 7.2). Equally interesting may be the changes over time in the regional average scores for those indices.

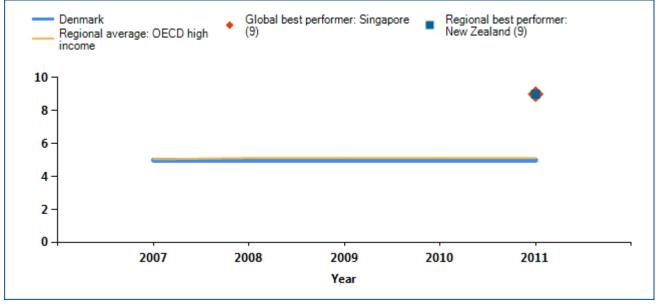
Figure 7.2 Have investor protections become stronger?



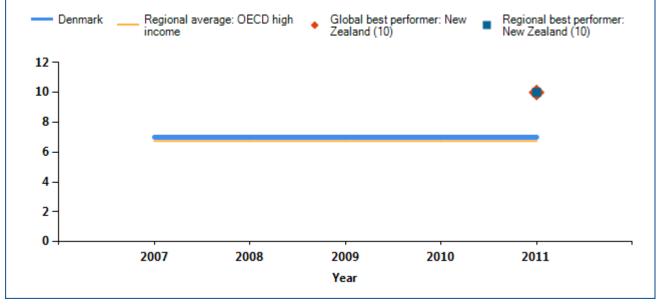
Extent of disclosure index (0-10)



Extent of director liability index (0-10)



Ease of shareholder suits index (0-10)



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

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Economies with the strongest protections of minority investors from self-dealing require more disclosure and define clear duties for directors. They also have well-functioning courts and up-to-date procedural rules that give minority investors the means to prove their case and obtain a judgment within a reasonable time. So reforms to strengthen investor protections may move ahead on different fronts—such as through new or amended company laws or civil procedure rules. What investor protection reforms has *Doing Business* recorded in Denmark (table 7.2)?

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

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

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

What are the details?

The protecting investors indicators reported here for Denmark are based on detailed information collected through a survey of corporate and securities lawyers and are based on securities regulations, company laws and court rules of evidence. To construct the extent of disclosure, extent of director liability and ease of shareholder suits indices, a score is assigned for each of a range of conditions relating to disclosure, director liability and shareholder suits in a standard case study transaction (see the notes at the end of this chapter). The summary below shows the details underlying the scores for Denmark.

Summary of scoring for the protecting investors indicators in Denmark

Indicator	Denmark	OECD high income	OECD high income
Extent of disclosure index (0-10)	7		6
Extent of director liability index (0-10)	5		5
Ease of shareholder suits index (0-10)	7		7
Strength of investor protection index (0-10)	6.3		6.0

	Score
Extent of disclosure index (0-10)	7
What corporate body provides legally sufficient approval for the transaction?	2
Whether disclosure of the conflict of interest by Mr. James to the board of directors is required?	1
Whether immediate disclosure of the transaction to the public and/or shareholders is required?	2
Whether disclosure of the transaction in published periodic filings (annual reports) is required?	2
Whether an external body must review the terms of the transaction before it takes place?	0
Extent of director liability index (0-10)	5
Whether shareholders can sue directly or derivatively for the damage that the Buyer-Seller transaction causes to the company?	1
Whether shareholders can hold Mr. James liable for the damage that the Buyer-Seller transaction causes to the company?	1
Whether shareholders can hold members of the approving body liable for the damage that the Buyer-Seller transaction causes to the company?	1
Whether a court can void the transaction upon a successful claim by a shareholder plaintiff?	0

Denmark

1 0 1
1
7
0
0
3
1
2
1
6.3

Source: Doing Business database.

Notes:

Extent of disclosure index (0–10)

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

Which corporate body can provide legally sufficient approval for the transaction

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

Whether disclosure of the conflict of interest by Mr. James to the board of directors is required 0 = no disclosure; 1 = disclosure of the existence of a conflict without any specifics; 2 = full disclosure of all material facts.

Whether immediate disclosure of the transaction to the public, the regulator or the shareholders is required 0 = no disclosure; 1 = disclosure on the transaction only; 2 = disclosure on the transaction and Mr. James's conflict of interest.

Whether disclosure of the transaction in the annual report is required 0 = no disclosure; 1 = disclosure on the transaction only; 2 = disclosure on the transaction and Mr. James's conflict of interest.

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

0 = no; 1 = yes.

Extent of director liability index (0–10)

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

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

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

Whether shareholders can hold Mr. James liable for the damage that the transaction causes to the company 0 = Mr. James is not liable or is liable only if he acted fraudulently or in bad faith; 1 = Mr. James is liable if he influenced the approval or was negligent; 2 = Mr. James is liable if the transaction is unfair or prejudicial to the other shareholders.

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

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

Whether a court can void the transaction upon a successful claim by a shareholder plaintiff 0 = rescission is unavailable or available only in case of Seller's fraud or bad faith; 1 = rescission is available when the transaction is oppressive or prejudicial to the other shareholders; 2 = rescission is available when the transaction is unfair or entails a conflict of interest.

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

0 = no; 1 = yes.

Whether Mr. James repays profits made from the transaction upon a successful claim by the shareholder plaintiff 0 = no; 1 = yes.

Whether both fines and imprisonment can be applied against Mr. James 0 = no; 1 = yes.

Ease of shareholder suits index (0–10)

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

What range of documents is available to the plaintiff from the defendant and witnesses during trial Score of 1 for each of the following: information that the defendant has indicated he intends to rely on for his defense; information that directly proves specific facts in the plaintiff's claim; any information relevant to the subject matter of the claim; and any information that may lead to the discovery of relevant information. Whether the plaintiff can directly examine the defendant and witnesses during trial 0 = no; 1 = yes, with prior approval by the court of the questions posed; 2 = yes, without prior approval.

Whether the plaintiff can obtain categories of relevant documents from the defendant without identifying each document specifically 0 = po; 1 = ves

0 = no; 1 = yes.

Whether shareholders owning 10% or less of the company's share capital can request that a government inspector investigate the transaction without filing suit in court 0 = no; 1 = yes.

Whether shareholders owning 10% or less of the company's share capital have the right to inspect the transaction documents before filing suit 0 = no; 1 = yes.

Whether the standard of proof for civil suits is lower than that for a criminal case 0 = no; 1 = yes.

Strength of investor protection index (0–10)

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

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

What do the indicators cover?

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

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

WHAT THE PAYING TAXES INDICATORS MEASURE

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

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

Method and frequency of filing and payment

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

Collecting information and computing the tax payable

Completing tax return forms, filing with proper agencies

Arranging payment or withholding

Preparing separate tax accounting books, if required

Total tax rate (% of profit before all taxes)

Profit or corporate income tax

Social contributions and labor taxes paid by the employer

Property and property transfer taxes

Dividend, capital gains and financial transactions taxes

Waste collection, vehicle, road and other taxes

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

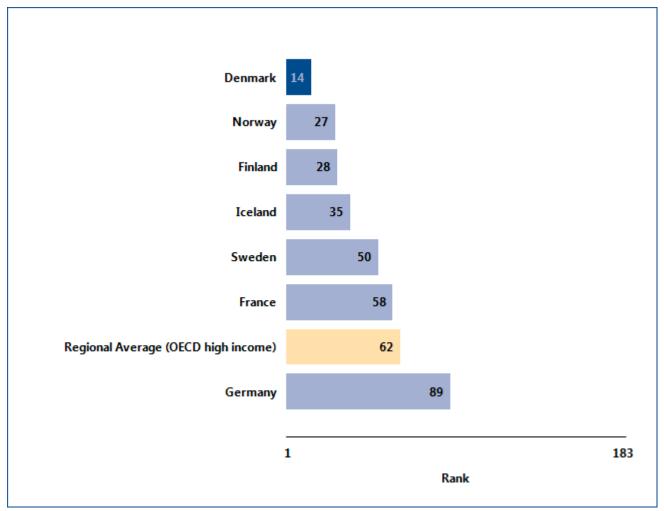
² The threshold is defined as the highest total tax rate among the top 30% of economies in the ranking on the total tax rate. It will be calculated and adjusted on a yearly basis. The threshold is not based on any underlying theory. Instead, it is intended to mitigate the effect of very low tax rates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

Where does the economy stand today?

What is the administrative burden of complying with taxes in Denmark—and how much do firms pay in taxes? On average, firms make 10 tax payments a year, spend 135 hours a year filing, preparing and paying taxes and pay total taxes amounting to 20.1% of profit (see the summary at the end of this chapter for details).

Globally, Denmark stands at 14 in the ranking of 183 economies on the ease of paying taxes (figure 8.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing the tax compliance burden for businesses in Denmark.





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

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to comply with tax rules in Denmark today, data over time show which aspects of the process have changed — and which have not (table 8.1). That can help identify where the potential for easing tax compliance is greatest.

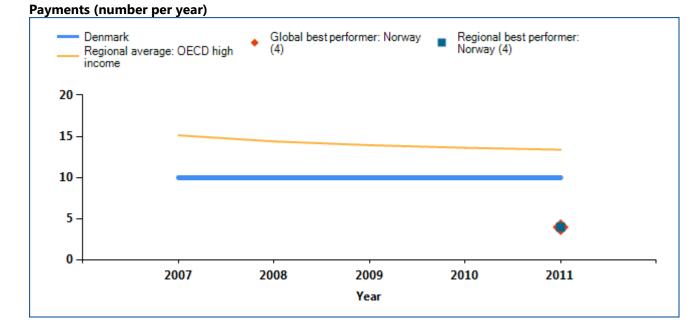
Table 8.1 The ease of paying taxes in Denmark over time By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank						12	14
Payments (number per year)	10	10	10	10	10	10	10
Time (hours per year)	135	135	135	135	135	135	135
Total tax rate (% profit)	34.7	32.7	33.3	29.9	29.2	29.3	27.5

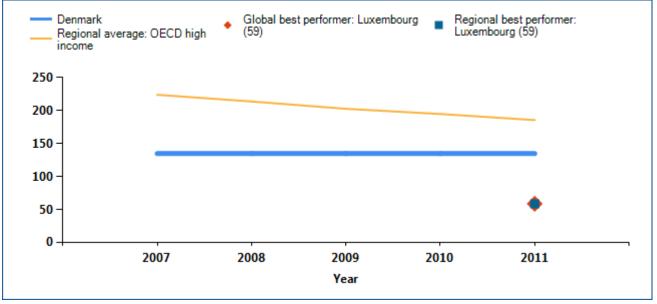
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 32.5% applied in DB2012, the total tax rate is set at 32.5% for the purpose of calculating the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

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the number of payments or the time required to prepare and file taxes (figure 8.2). These economies may provide a model for Denmark on ways to ease the administrative burden of tax compliance. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

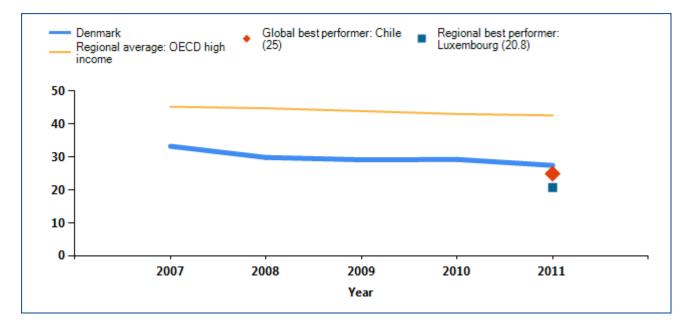
Figure 8.2 Has paying taxes become easier over time?



Time (hours per year)



Total tax rate (% of profit)



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

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 Denmark (table 8.2)?

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

DB Year	Reform
DB2012	No reform.
DB2011	No reform.
DB2010	No reform.
DB2009	The corporate income tax rate was reduced from 28% to 25%.

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.

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What are the details?

The indicators reported here for Denmark are based on a standard set of taxes and contributions that would be paid by the case study company used by *Doing Business* in collecting the data (see the section in this chapter on what the indicators cover). Tax practitioners are asked to review standard financial statements as well as a standard list of transactions that the company completed during the year. Respondents are asked how much in taxes and mandatory contributions the business must pay and what the process is for doing so. The taxes and contributions paid are listed in the summary below, along with the associated number of payments, time and tax rate.

Summary of tax rates and administrative burden in Denmark

Indicator	Denmark	OECD high income	OECD high income
Payments (number per year)	10		13
Time (hours per year)	135		186
Profit tax (%)	20.1		15.4
Labor tax and contributions (%)	3.6		24.0
Other taxes (%)	3.8		3.2
Total tax rate (% profit)	27.5		42.7

Tax or mandatory contribution	Payments (number)	Notes on payments	Time (hours)	Statutory tax rate	Tax base	Total tax rate (% of profit)	Notes on total tax rate
Corporate income tax	3		25	25.0%	taxable profits	20.1	
Property tax	1	online filing	0	various rates	value of property	1.9	
Fuel tax	1		0		included in the fuel price	1.5	
Social security contributions	0	paid jointly	0	fixed amount (DKK 4,000 per employee)	fixed amount	1.4	

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	0	paid jointly	0	fixed amount (DKK 3,840 per employee)	fixed amount	1.4	
Social security contributions	1	online filing	70	fixed amount (DKK 2,160 per employee)	fixed amount	0.8	
Tax on insurance contracts	1		0	14.0%	Sum of insurance	0.3	
Environmental tax	1		0	fixed amount (DKK 375 per ton for waste)	ton of waste	0.1	
Vehicle tax	1		0	fixed amount (DKK 4,000)	weight of vehicle	0	
Value added tax	1	online filing	40	25.00%	value added	0	not included
Totals	10		135			27.5	

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

TRADING ACROSS BORDERS

Denmark

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

What do the indicators cover?

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

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

The business:

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

The traded goods:

 Are not hazardous nor do they include military items.

WHAT THE TRADING ACROSS BORDERS

INDICATORS MEASURE

Documents required to export and import (number)

Bank documents

Customs clearance documents

- Port and terminal handling documents
- **Transport documents**

Time required to export and import (days)

Obtaining all the documents

- Inland transport and handling
- Customs clearance and inspections
- Port and terminal handling

Does not include ocean transport time

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

All documentation

Inland transport and handling

Customs clearance and inspections

Port and terminal handling

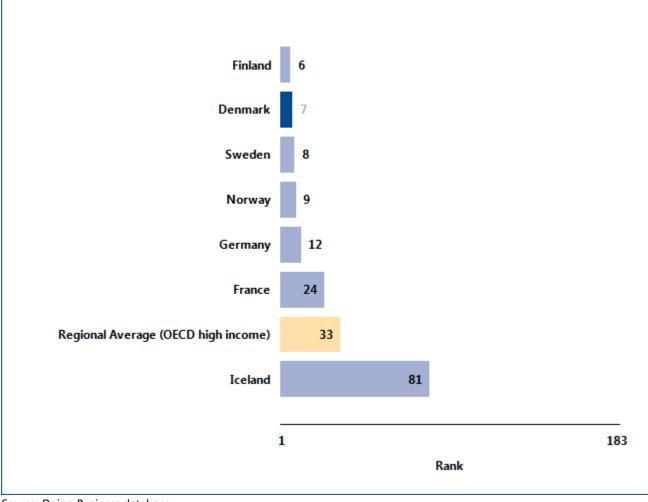
Official costs only, no bribes

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

Where does the economy stand today?

What does it take to export or import in Denmark? According to data collected by *Doing Business*, exporting a standard container of goods requires 4 documents, takes 5 days and costs \$744. Importing the same container of goods requires 3 documents, takes 5 days and costs \$744 (see the summary of procedures and documents at the end of this chapter for details). Globally, Denmark stands at 7 in the ranking of 183 economies on the ease of trading across borders (figure 9.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how easy it is for a business in Denmark to export and import goods.

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



Source: Doing Business database.

What are the changes over time?

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

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

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank						6	7
Documents to export (number)	4	4	4	4	4	4	4
Time to export (days)	5	5	5	5	5	5	5
Cost to export (US\$ per container)	603	603	603	744	744	744	744
Documents to import (number)	3	3	3	3	3	3	3
Time to import (days)	5	5	5	5	5	5	5
Cost to import (US\$ per container)	603	603	603	744	744	744	744

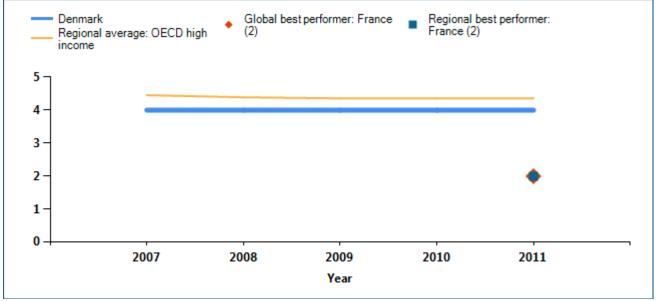
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: Doing Business database.

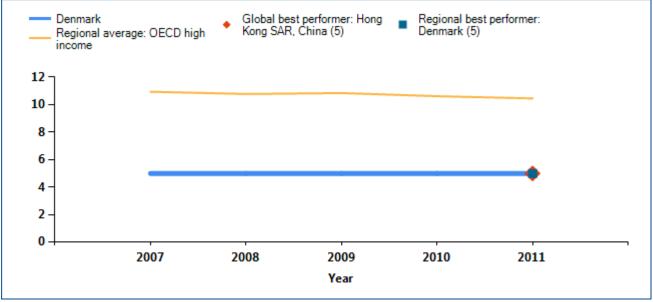
Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the documents, time or cost required to export or import (figure 9.2). These economies may provide a model for Denmark on ways to improve the ease of trading across borders. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

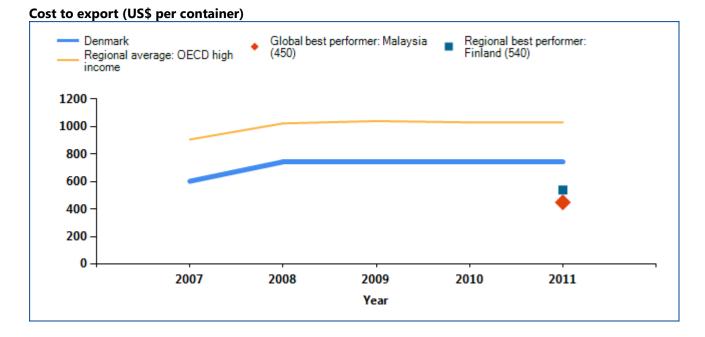
Figure 9.2 Has trading across borders become easier over time?

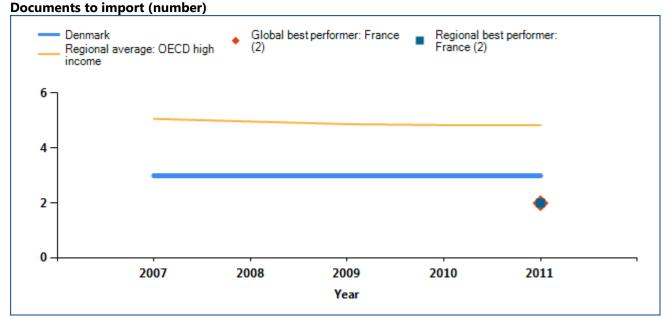
Documents to export (number)



Time to export (days)

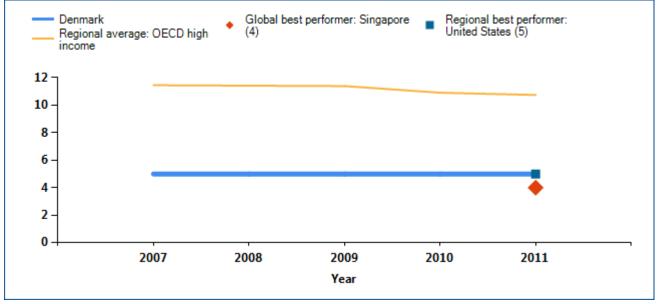




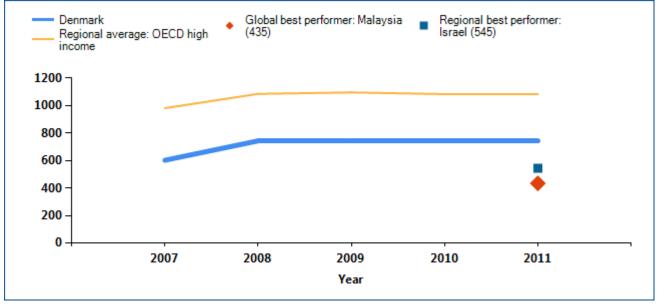


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Time to import (days)



Cost to import (US\$ per container)



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

Source: Doing Business database.

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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 Denmark (table 9.2)?

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

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

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

What are the details?

The indicators reported here for Denmark are based on a set of specific procedural requirements for trading a standard shipment of goods by ocean transport (see the section in this chapter on what the indicators cover). Information on the procedures as well as the required documents and the time and cost to complete each procedure is collected from local freight forwarders, shipping lines, customs brokers, port officials and banks. The procedural requirements, and the associated time and cost, for exporting and importing a standard shipment of goods are listed in the summary below, along with the required documents.

Summary of procedures and documents for trading across borders in Denmark

Indicator	Denmark	OECD high income	OECD high income
Documents to export (number)	4		4
Time to export (days)	5		10
Cost to export (US\$ per container)	744		1,032
Documents to import (number)	3		5
Time to import (days)	5		11
Cost to import (US\$ per container)	744		1,085

Procedures to export	Time (days)	Cost (US\$)
Documents preparation	2	203
Customs clearance and technical control	1	75
Ports and terminal handling	1	191
Inland transportation and handling	1	275
Totals	5	744

Procedures to import	Time (days)	Cost (US\$)
Documents preparation	2	203
Customs clearance and technical control	1	75
Ports and terminal handling	1	191
Inland transportation and handling	1	275
Totals	5	744

Documents to export

Bill of lading

Customs export declaration

Commercial invoice

Packing list

Documents to import

Bill of lading

Commercial invoice

Customs import declaration

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

What do the indicators cover?

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

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

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

WHAT THE ENFORCING CONTRACTS

INDICATORS MEASURE

Procedures to enforce a contract through the courts (number)

- Any interaction between the parties in a commercial dispute, or between them and the judge or court officer
- Steps to file and serve the case
- Steps for trial and judgment
- Steps to enforce the judgment

Time required to complete procedures (calendar days)

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

Time to enforce the judgment

Cost required to complete procedures (% of claim)

No bribes

Average attorney fees

Court costs, including expert fees

Enforcement costs

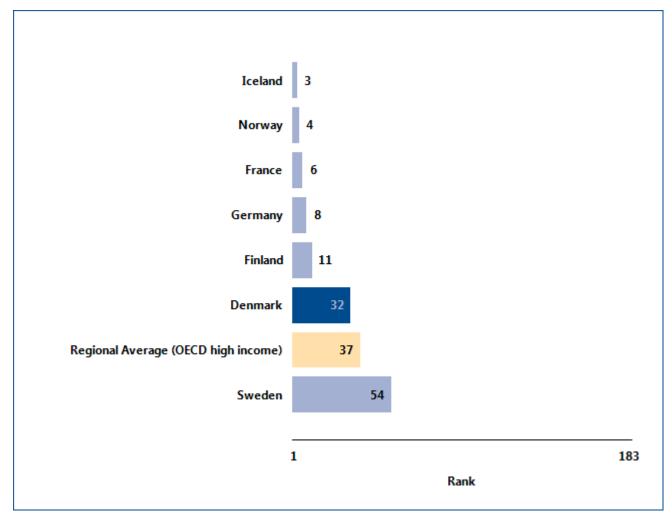
- The dispute on the quality of the goods requires an expert opinion.
- The judge decides in favor of the seller; there is no appeal.
- The seller enforces the judgment through a public sale of the buyer's movable assets.

Where does the economy stand today?

How efficient is the process of resolving a commercial dispute through the courts in Denmark? According to data collected by *Doing Business*, enforcing a contract requires 35 procedures, takes 410 days and costs 23.3% of the value of the claim (see the summary at the end of this chapter for details).

Globally, Denmark stands at 32 in the ranking of 183 economies on the ease of enforcing contracts (figure 10.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of contract enforcement in Denmark.

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



Source: Doing Business database.

What are the changes over time?

While the most recent *Doing Business* data reflect how easy (or difficult) it is to enforce a contract in Denmark today, data on the underlying indicators over time help identify which areas have changed and where the potential for improvement is greatest (table 10.1).

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

Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank								30	32
Time (days)	380	380	380	380	380	380	380	410	410
Cost (% of claim)	24.6	24.6	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Procedures (number)	34	35	35	35	35	35	35	35	35

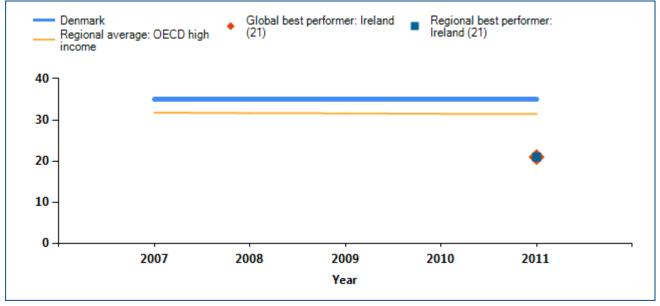
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology.

Source: Doing Business database.

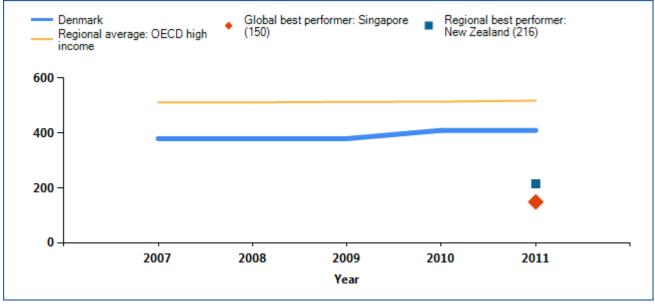
Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the number of steps, time or cost required to enforce a contract through the courts (figure 10.2). These economies may provide a model for Denmark on ways to improve the efficiency of contract enforcement. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

Figure 10.2 Has enforcing contracts become easier over time?

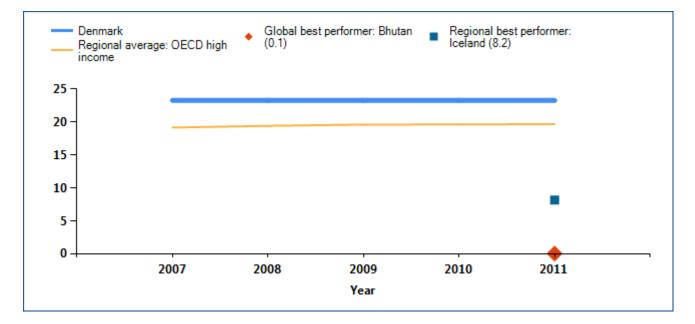
Procedures (number)



Time (days)



Cost (% of claim)



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

Source: Doing Business database.

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 Denmark (table 10.2)?

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

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

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

What are the details?

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

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

Indicator	Denmark	OECD high income	OECD high income
Time (days)	410	518.03	518.03
Filing and service	60		
Trial and judgment	260		
Enforcement of judgment	90		
Cost (% of claim)	23.3	19.71	19.71
Attorney cost (% of claim)	5		
Court cost (% of claim)	3.3		
Enforcement Cost (% of claim)	15		
Procedures (number)	35	31.42	31.42

Source: Doing Business database.

Denmark

RESOLVING INSOLVENCY

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

What do the indicators cover?

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

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

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

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

WHAT THE RESOLVING INSOLVENCY INDICATORS MEASURE

Time required to recover debt (years)

Measured in calendar years

Appeals and requests for extension are included

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

Measured as percentage of estate value

Court fees

Fees of insolvency administrators

Lawyers' fees

Assessors' and auctioneers' fees

Other related fees

Recovery rate for creditors (cents on the dollar)

Measures the cents on the dollar recovered by creditors

Present value of debt recovered

Official costs of the insolvency proceedings are deducted

Depreciation of furniture is taken into account

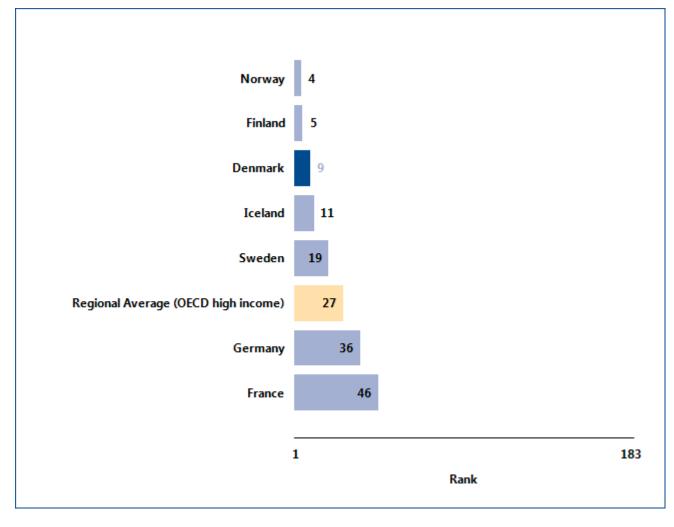
Outcome for the business (survival or not) affects the maximum value that can be recovered

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

Where does the economy stand today?

Speed, low costs and continuation of viable businesses characterize the top-performing economies. How efficient are insolvency proceedings in Denmark? According to data collected by *Doing Business*, resolving insolvency takes 1.0 years on average and costs 4% of the debtor's estate. The average recovery rate is 87.3 cents on the dollar. Globally, Denmark stands at 9 in the ranking of 183 economies on the ease of resolving insolvency (figure 11.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of insolvency proceedings in Denmark.

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



Source: Doing Business database.

What are the changes over time?

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

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

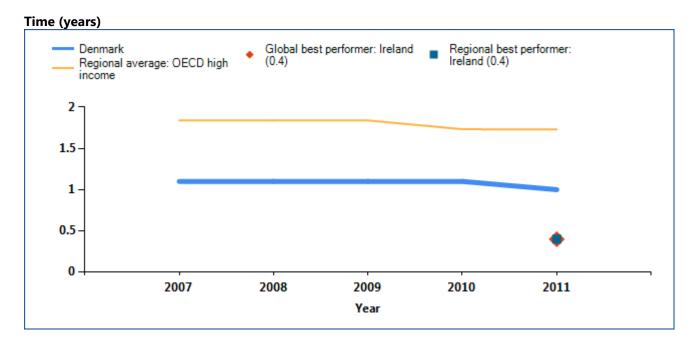
Table 11.1 The ease of resolving insolvency in Denmark over time By *Doing Business* report year

Indicator	DB2004	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012
Rank								5	9
Time (years)	3.3	3.3	3.3	3.0	1.1	1.1	1.1	1.1	1.0
Cost (% of estate)	4	4	4	4	4	4	4	4	4
Recovery rate (cents on the dollar)	63.1	63.1	67.2	70.5	87.0	86.5	86.5	89.4	87.3

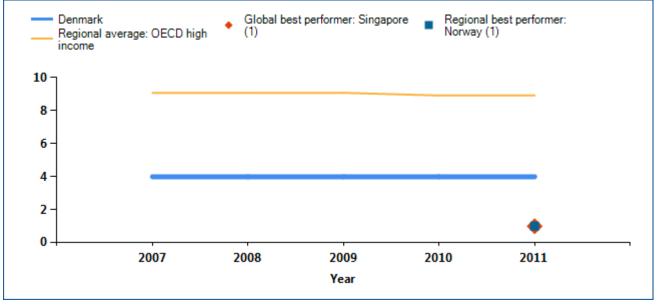
Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2012 rankings reflect changes to the methodology. "No practice" indicates that in each of the previous 5 years the economy had no cases involving a judicial reorganization, judicial liquidation or debt enforcement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

Equally helpful may be the benchmarks provided by the economies that today have the best performance regionally or globally on the time or cost of insolvency proceedings or on the recovery rate (figure 11.2). These economies may provide a model for Denmark on ways to improve the efficiency of insolvency proceedings. And changes in regional averages can show where Denmark is keeping up—and where it is falling behind.

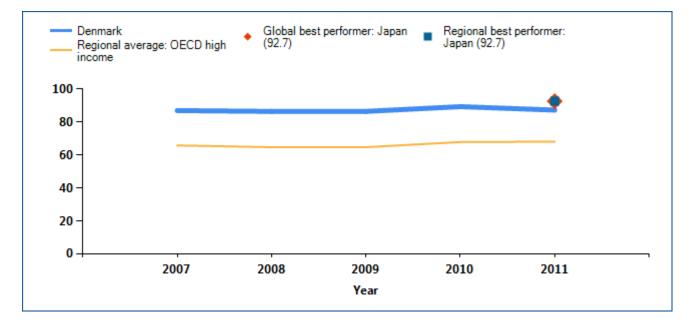
Figure 11.2 Has resolving insolvency become easier over time?



Cost (% of estate)



Recovery rate (cents on the dollar)



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

Source: Doing Business database.

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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 Denmark (table 11.2)?

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

DB Year	Reform
DB2012	Denmark introduced new rules on company reorganization, which led to the elimination of the suspension-of-payments regime.
DB2011	No reform.
DB2010	No reform.
DB2009	No reform.

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

DATA NOTES

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

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

Methodology

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

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

ECONOMY CHARACTERISTICS

Gross national income (GNI) per capita

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

Region and income group

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

Population

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

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

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

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

Limits to what is measured

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

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

Subnational Doing Business indicators

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

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

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

Changes in what is measured

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

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

Denmark

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

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

Data challenges and revisions

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

Ease of doing business and distance to frontier

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

Ease of doing business

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

Construction of the ease of doing business index

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

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

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

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

Denmark

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

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

Variability of economies' rankings across topics

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

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

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

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

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

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

Distance to frontier measure

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

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

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

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

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

Calculating the distance to frontier for each economy involves 2 main steps. First, individual indicator scores are normalized to a common unit. To do so, each of the 32 component indicators y is rescaled to (y - min)/(max - min), with the minimum value (min) representing the frontier—the highest performance on that indicator across all economies since 2005. Second, for each economy the scores obtained for individual indicators are aggregated through simple averaging into one distance to frontier score. An economy's distance to the frontier is indicated on a scale from 0 to 100, where 0 represents the frontier and 100 the lowest performance. The difference between an economy's distance to frontier score in 2005 and its score in 2011 illustrates the extent to which the economy has closed the gap to the frontier over time.

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

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

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