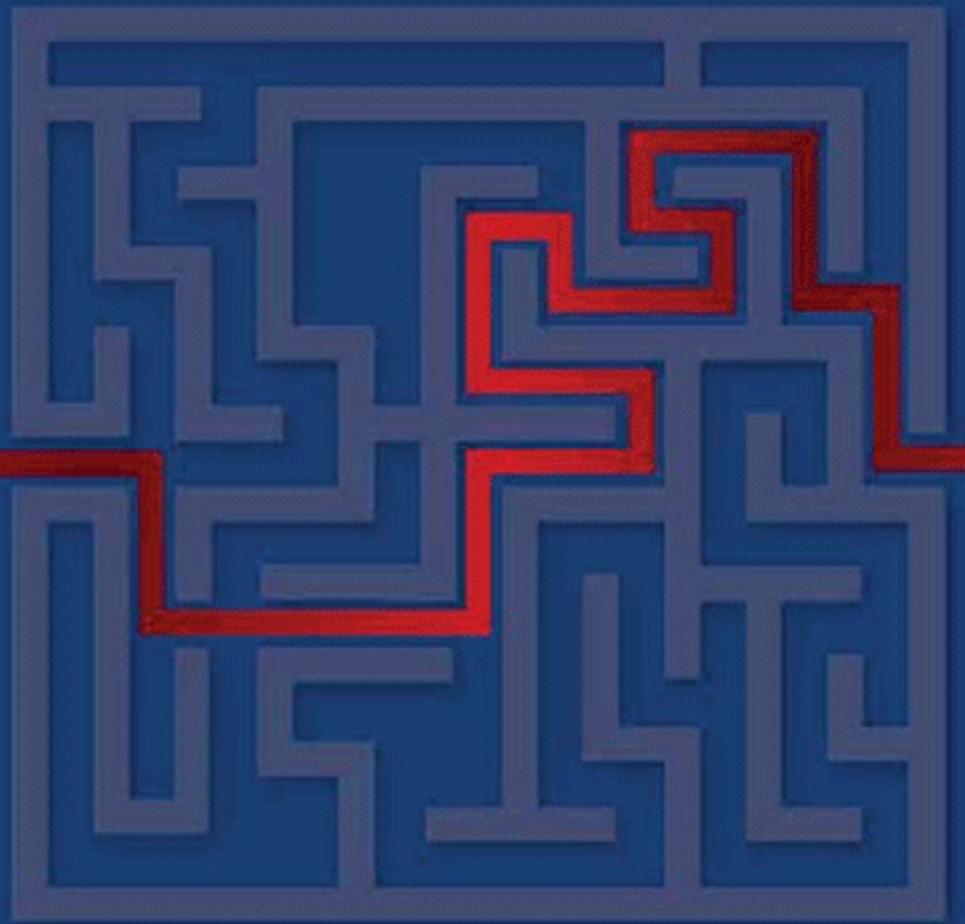




Doing Business 2014

Economy Profile: Chad



Comparing Business Regulations for Domestic Firms in 189 Economies

11TH EDITION

A World Bank Group Corporate Flagship

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INTRODUCTION

Doing Business sheds light on how easy or difficult it is for a local entrepreneur to open and run a small to medium-size business when complying with relevant regulations. It measures and tracks changes in regulations affecting 11 areas in the life cycle of a business: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts, resolving insolvency and employing workers.

In a series of annual reports *Doing Business* presents quantitative indicators on business regulations and the protection of property rights that can be compared across 189 economies, from Afghanistan to Zimbabwe, over time. The data set covers 47 economies in Sub-Saharan Africa, 33 in Latin America and the Caribbean, 25 in East Asia and the Pacific, 25 in Eastern Europe and Central Asia, 20 in the Middle East and North Africa and 8 in South Asia, as well as 31 OECD high-income economies. The indicators are used to analyze economic outcomes and identify what reforms have worked, where and why.

This economy profile presents the *Doing Business* indicators for Chad. 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, 2013 (except for

the paying taxes indicators, which cover the period January–December 2012).

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 2014* presents the indicators, analyzes their relationship with economic outcomes and presents business regulatory reforms. The data, along with information on ordering *Doing Business 2014*, are available on the *Doing Business* website at <http://www.doingbusiness.org>.

THE BUSINESS ENVIRONMENT

For policy makers trying to improve their economy's regulatory environment for business, a good place to start is to find out how it compares with the regulatory environment in other economies. *Doing Business* provides an aggregate ranking on the ease of doing business based on indicator sets that measure and benchmark regulations applying to domestic small to medium-size businesses through their life cycle. Economies are ranked from 1 to 189 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 2014*: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts and resolving insolvency. The ranking on each topic is the simple average of the percentile rankings on its component indicators (see the data notes for more details). The employing workers indicators are not included in this year's aggregate ease of doing business ranking, but the data are presented in this year's economy profile.

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

ECONOMY OVERVIEW

Region: Sub-Saharan Africa

Income category: Low income

Population: 12,448,175

GNI per capita (US\$): 740

DB2014 rank: 189

DB2013 rank: 189*

Change in rank: 0

DB 2014 DTF: 31.23

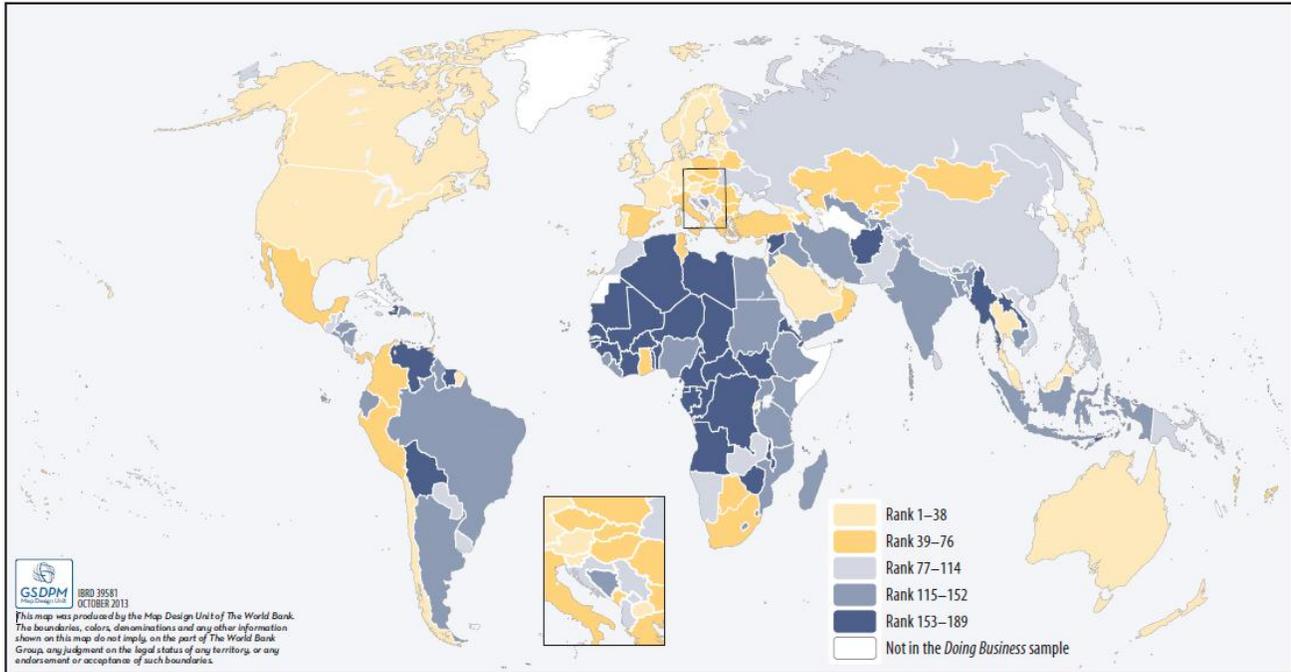
DB 2013 DTF: 30.69

Change in DTF: 0.53

* DB2013 ranking shown is not last year's published ranking but a comparable ranking for DB2013 that captures the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. See the data notes for sources and definitions.

THE BUSINESS ENVIRONMENT

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



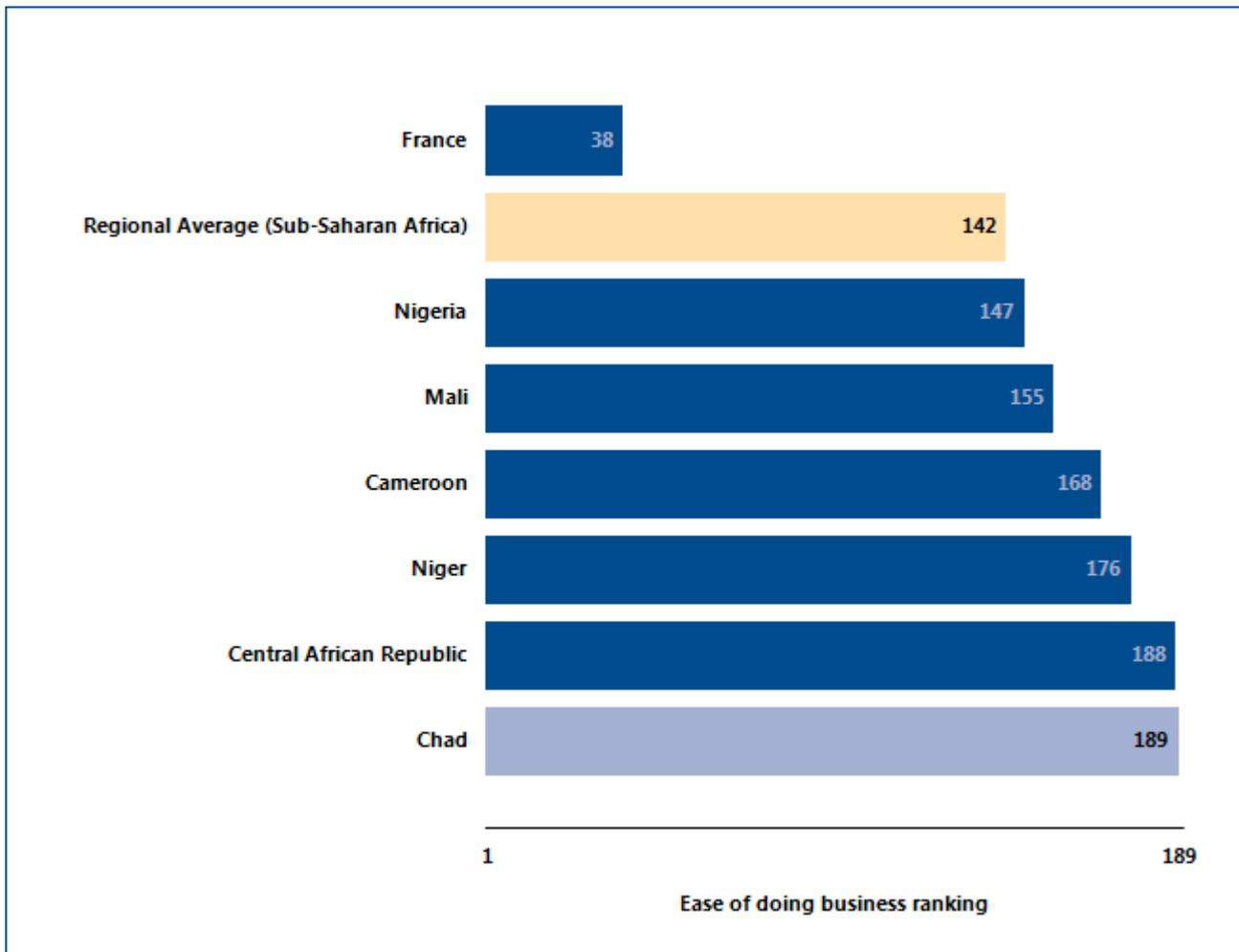
Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

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

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

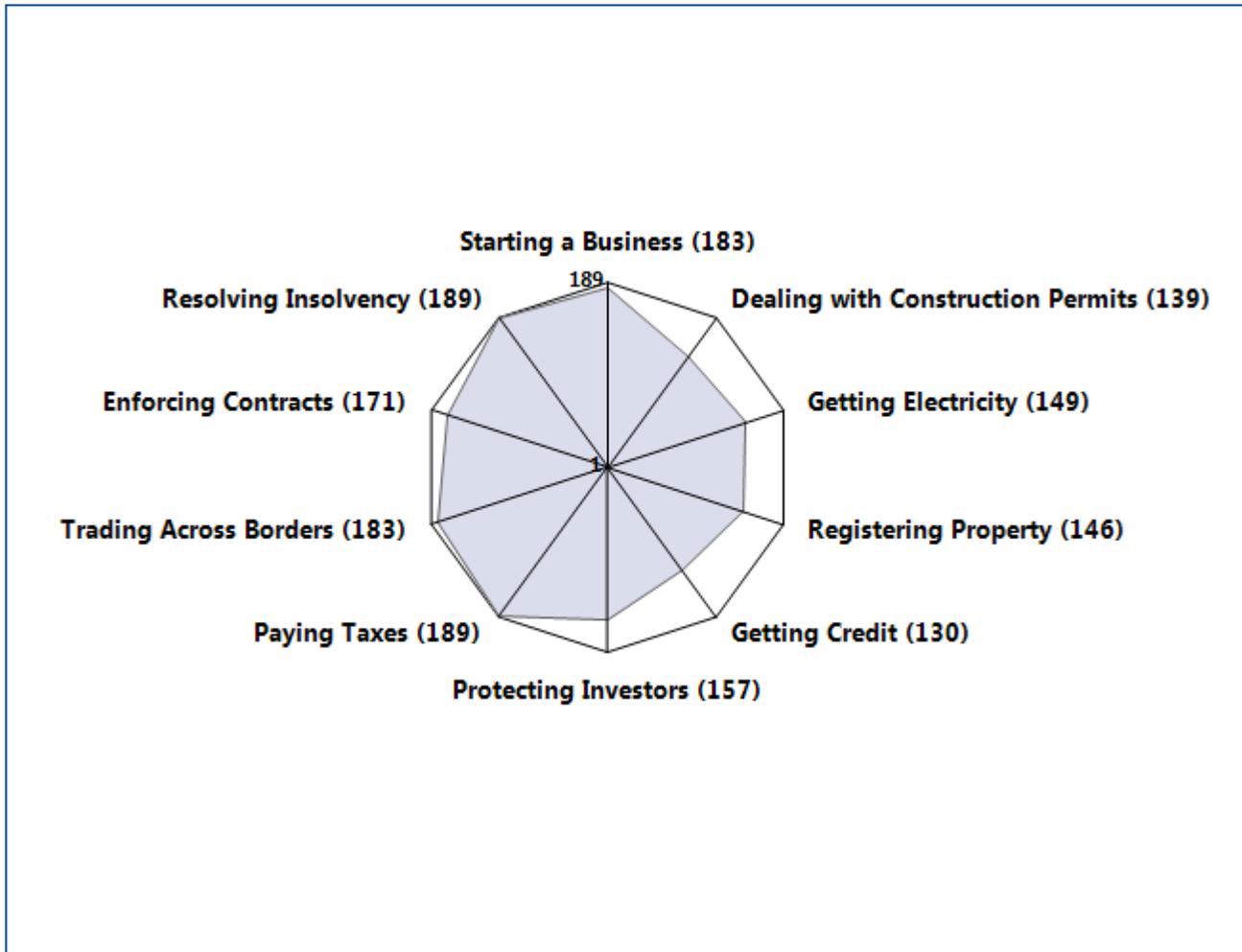
Figure 1.2 How Chad and comparator economies rank on the ease of doing business



Source: Doing Business database.

THE BUSINESS ENVIRONMENT

Figure 1.3 How Chad ranks on *Doing Business* topics



Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

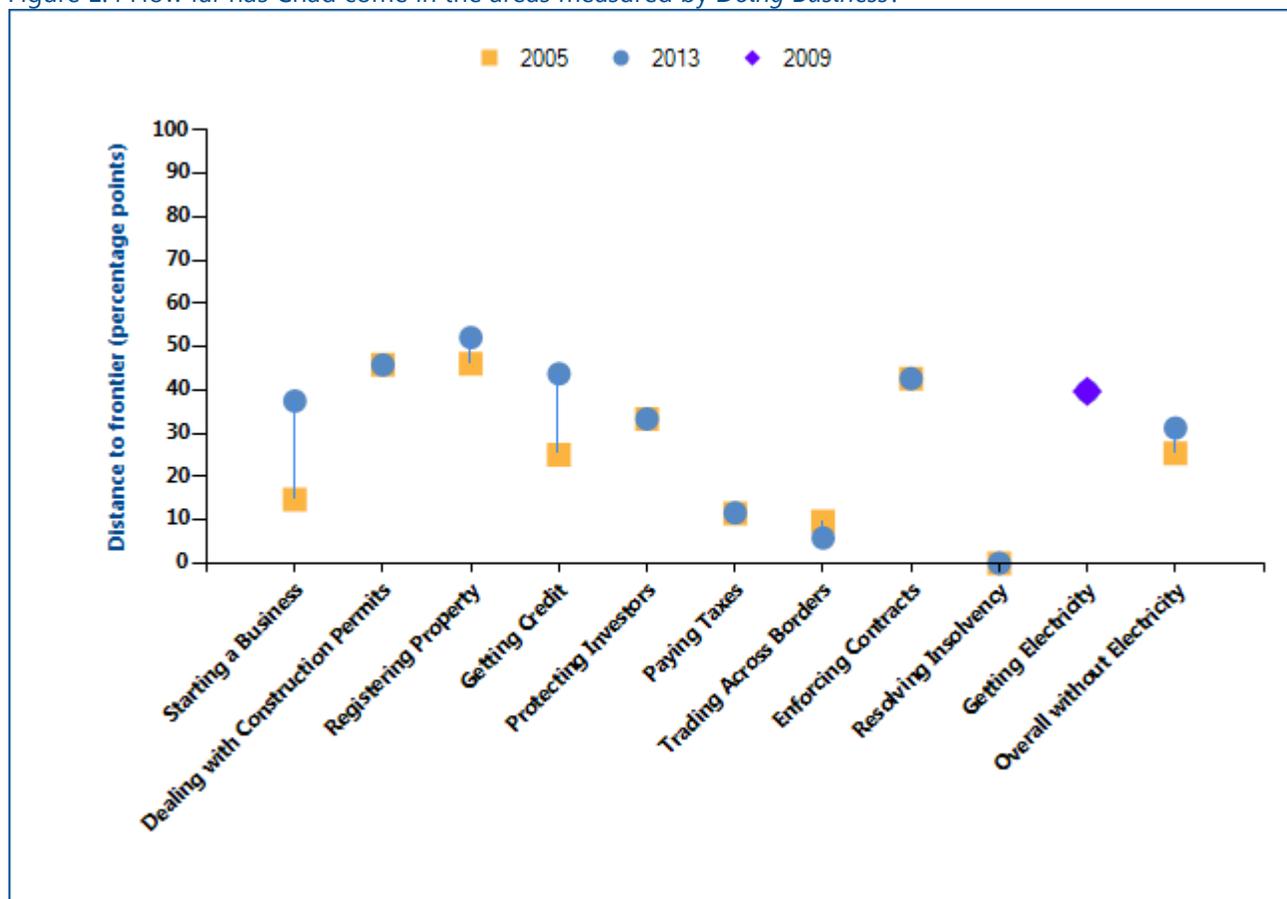
Just as the overall ranking on the ease of doing business tells only part of the story, so do changes in that ranking. Yearly movements in rankings can provide some indication of changes in an economy’s regulatory environment for firms, but they are always relative.

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

Doing Business introduced the distance to frontier measure. This measure shows how far on average an economy is from the best performance achieved by any economy on each *Doing Business* indicator since 2005, except for the getting electricity indicators, which were introduced in 2009.

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).

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



Note: The distance to frontier measure shows how far on average an economy is from the best performance achieved by any economy on each *Doing Business* indicator since 2005, except for the getting electricity indicators, which were introduced in 2009. The measure is normalized to range between 0 and 100, with 100 representing the best performance (the frontier). The overall distance to frontier is the average of the distance to frontier in the first 9 indicator sets shown in the figure and does not include getting electricity. Data on the overall distance to frontier including getting electricity is available at <http://www.doingbusiness.org/data/distance-to-frontier>. See the data notes for more details on the distance to frontier measure.

Source: *Doing Business* database.

THE BUSINESS ENVIRONMENT

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

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

Table 1.1 Summary of *Doing Business* indicators for Chad

Indicator	Chad DB2014	Chad DB2013	Cameroon DB2014	Central African Republic DB2014	France DB2014	Mali DB2014	Niger DB2014	Nigeria DB2014	Best performer globally DB2014
Starting a Business (rank)	183	184	132	177	41	136	159	122	New Zealand (1)
Procedures (number)	9	9	5	8	5	5	6	8	New Zealand (1)*
Time (days)	62.0	62.0	15.0	22.0	6.5	11.0	17.0	28.0	New Zealand (0.5)
Cost (% of income per capita)	186.3	202.0	36.2	162.0	0.9	76.7	80.1	58.3	Slovenia (0.0)
Paid-in Min. Capital (% of income per capita)	251.6	289.4	171.8	411.4	0.0	295.2	527.8	0.0	112 Economies (0.0)*
Dealing with Construction Permits (rank)	139	133	127	156	92	113	164	151	Hong Kong SAR, China (1)
Procedures (number)	13	13	13	18	9	11	12	18	Hong Kong SAR, China (6)
Time (days)	154.0	154.0	139.0	203.0	184.0	179.0	326.0	116.0	Singapore (26.0)

Indicator	Chad DB2014	Chad DB2013	Cameroon DB2014	Central African Republic DB2014	France DB2014	Mali DB2014	Niger DB2014	Nigeria DB2014	Best performer globally DB2014
Cost (% of income per capita)	4,438.9	5,106.8	1,020.5	179.7	244.4	372.2	1,486.1	3,504.8	Qatar (1.1)
Getting Electricity (rank)	149	150	62	177	42	118	123	185	Iceland (1)
Procedures (number)	6	6	4	7	5	4	4	8	10 Economies (3)*
Time (days)	67	67	64	102	79	120	115	260	Germany (17)
Cost (% of income per capita)	9,580.1	11,017.6	1,831.8	11,674.9	43.3	3,771.9	6,936.4	960.5	Japan (0.0)
Registering Property (rank)	146	143	159	141	149	99	80	185	Georgia (1)
Procedures (number)	6	6	5	5	8	5	4	13	4 Economies (1)*
Time (days)	44.0	44.0	86.0	75.0	49.0	29.0	35.0	77.0	New Zealand (1.0)*
Cost (% of property value)	15.4	17.9	19.1	11.0	6.1	12.0	9.0	20.8	5 Economies (0.0)*
Getting Credit (rank)	130	126	109	109	55	130	130	13	Malaysia (1)*
Strength of legal rights index (0-10)	6	6	6	6	7	6	6	9	10 Economies (10)*
Depth of credit information index (0-6)	1	1	2	2	4	1	1	5	31 Economies (6)*
Public registry coverage (% of adults)	0.8	0.5	8.9	3.1	43.6	3.7	1.0	0.1	Portugal (100.0)*
Private bureau coverage (% of adults)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	22 Economies (100.0)*
Protecting Investors (rank)	157	156	128	138	80	147	157	68	New Zealand (1)
Extent of disclosure	6	6	6	6	10	6	6	5	10 Economies (10)*

Indicator	Chad DB2014	Chad DB2013	Cameroon DB2014	Central African Republic DB2014	France DB2014	Mali DB2014	Niger DB2014	Nigeria DB2014	Best performer globally DB2014
index (0-10)									
Extent of director liability index (0-10)	1	1	1	1	1	1	1	7	Cambodia (10)
Ease of shareholder suits index (0-10)	3	3	6	5	5	4	3	5	3 Economies (10)*
Strength of investor protection index (0-10)	3.3	3.3	4.3	4.0	5.3	3.7	3.3	5.7	New Zealand (9.7)
Paying Taxes (rank)	189	189	180	188	52	157	162	170	United Arab Emirates (1)
Payments (number per year)	54	54	44	56	7	35	41	47	Hong Kong SAR, China (3)*
Time (hours per year)	732	732	630	483	132	270	270	956	United Arab Emirates (12)
Trading Across Borders (rank)	183	178	159	185	36	160	178	158	Singapore (1)
Documents to export (number)	8	7	11	9	2	6	8	9	Ireland (2)*
Time to export (days)	73	75	23	46	10	26	57	22	5 Economies (6)*
Cost to export (US\$ per container)	6,615	5,902	1,379	5,490	1,335	2,440	4,475	1,380	Malaysia (450)
Documents to import (number)	11	10	11	17	2	10	10	13	Ireland (2)*
Time to import (days)	98	101	25	55	11	32	62	33	Singapore (4)
Cost to import (US\$ per container)	9,025	8,525	2,167	5,555	1,445	4,405	4,500	1,695	Singapore (440)
Enforcing Contracts (rank)	171	171	175	180	7	140	143	136	Luxembourg (1)

Indicator	Chad DB2014	Chad DB2013	Cameroon DB2014	Central African Republic DB2014	France DB2014	Mali DB2014	Niger DB2014	Nigeria DB2014	Best performer globally DB2014
Time (days)	743	743	800	660	395	620	545	447	Singapore (150)
Cost (% of claim)	45.7	45.7	46.6	82.0	17.4	52.0	59.6	92.0	Bhutan (0.1)
Procedures (number)	41	41	42	43	29	36	39	40	Singapore (21)*
Resolving Insolvency (rank)	189	189	151	189	46	131	154	107	Japan (1)
Time (years)	4.0	4.0	2.8	4.8	1.9	3.6	5.0	2.0	Ireland (0.4)
Cost (% of estate)	60	60	34	76	9	18	18	22	Norway (1)
Outcome (0 as piecemeal sale and 1 as going concern)	0	0	0	0	0	0	0	0	
Recovery rate (cents on the dollar)	0.0	0.0	15.4	0.0	48.3	22.2	14.9	27.9	Japan (92.8)

Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. For more information on "no practice" marks, see the data notes.

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

Source: *Doing Business* database.

STARTING A BUSINESS

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

What do the indicators cover?

Doing Business measures the ease of starting a business in an economy by recording all procedures officially required or commonly done in practice by an entrepreneur to start up and formally operate an industrial or commercial business—as well as the time and cost required to complete these procedures. It also records the paid-in minimum capital that companies must deposit before registration (or within 3 months). The ranking 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 the entrepreneur will pay no bribes. And it assumes that the business:

- Is a limited liability company, located in the largest business city and is 100% domestically owned.
- Has between 10 and 50 employees.
- 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 (2 procedures cannot start on the same day). Procedures that can be fully completed online are an exception to this rule.

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.

STARTING A BUSINESS

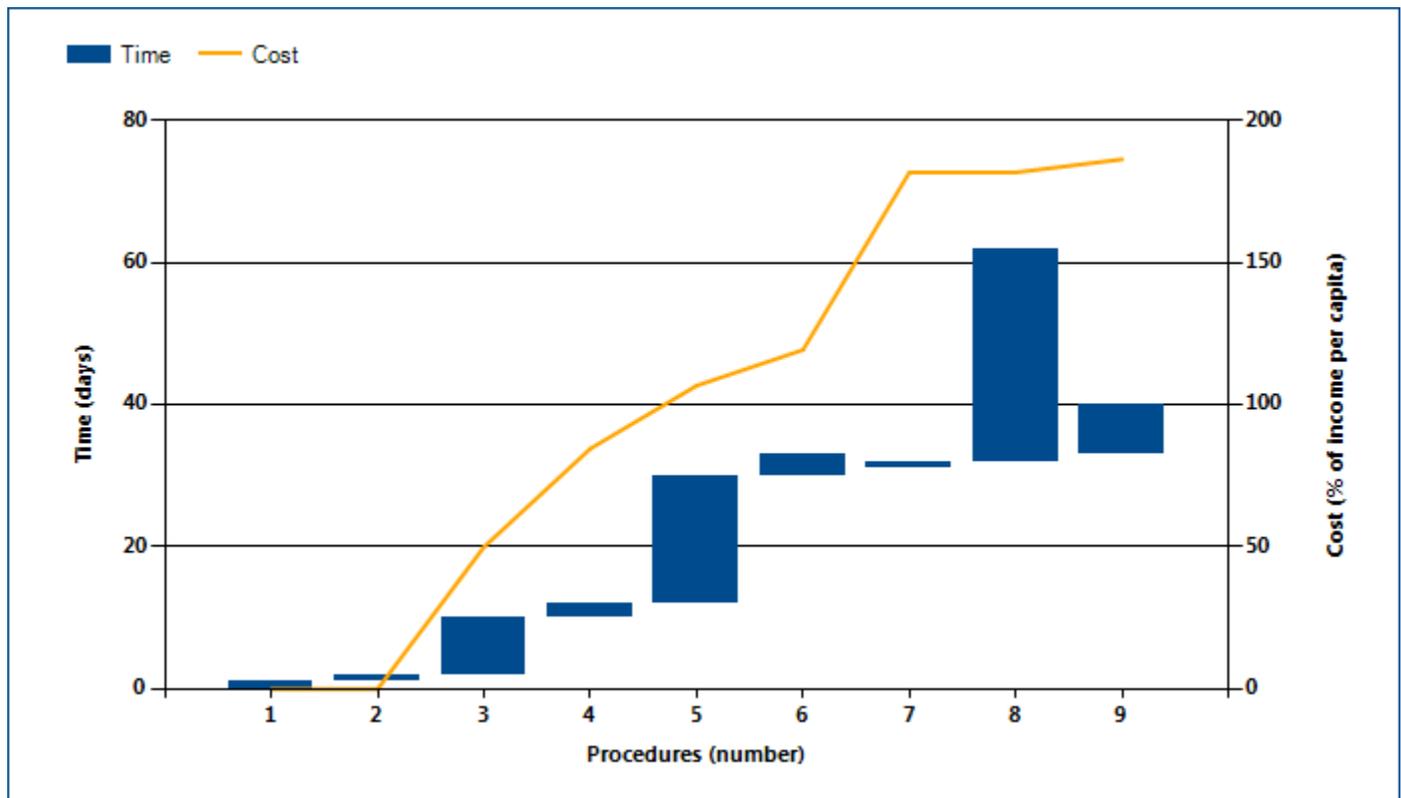
Where does the economy stand today?

What does it take to start a business in Chad? According to data collected by *Doing Business*, starting a business there requires 9 procedures, takes 62.0

days, costs 186.3% of income per capita and requires paid-in minimum capital of 251.6% of income per capita (figure 2.1).

Figure 2.1 What it takes to start a business in Chad

Paid-in minimum capital (% of income per capita): 251.6



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

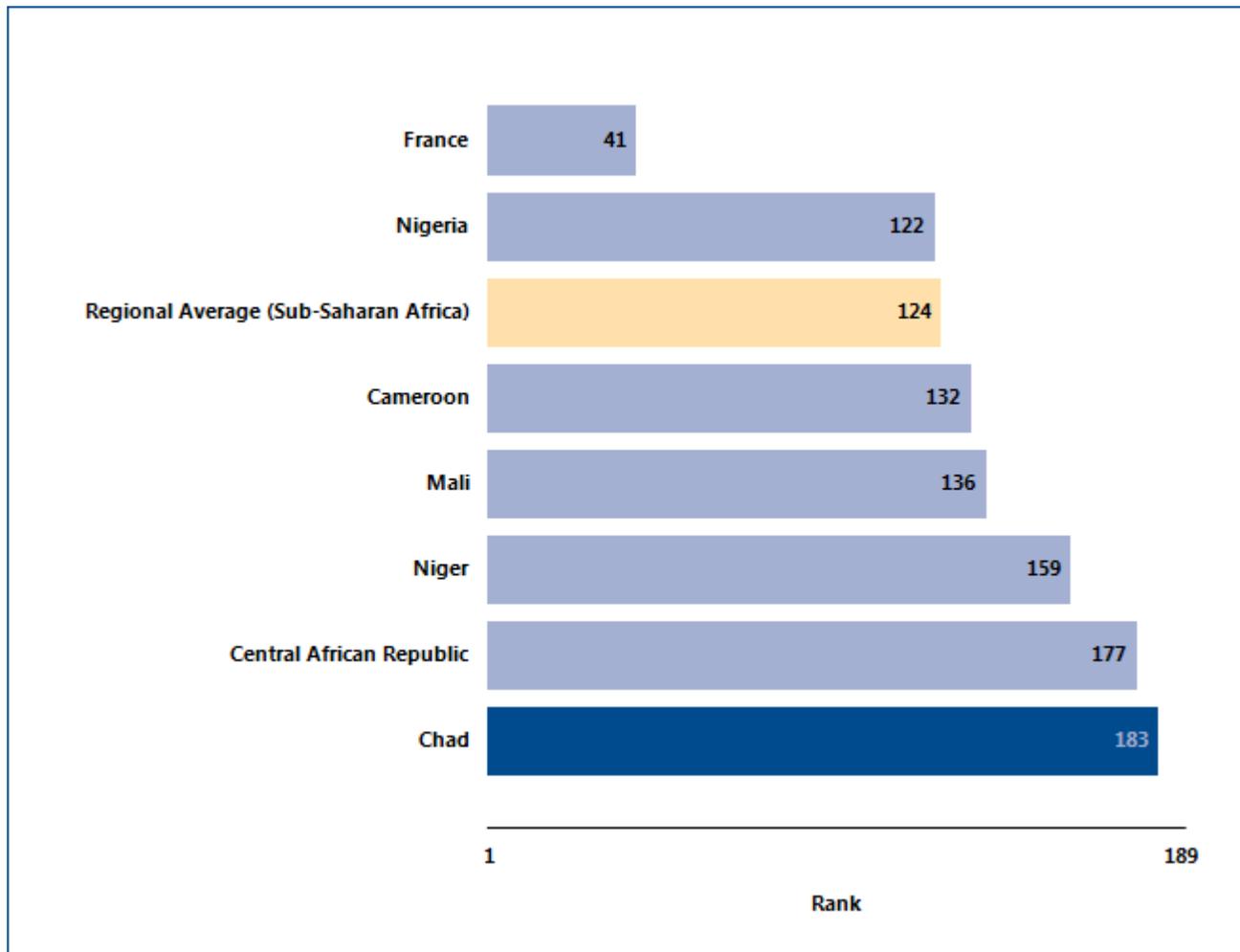
Source: *Doing Business* database.

STARTING A BUSINESS

Globally, Chad stands at 183 in the ranking of 189 economies on the ease of starting a business (figure 2.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

STARTING A BUSINESS

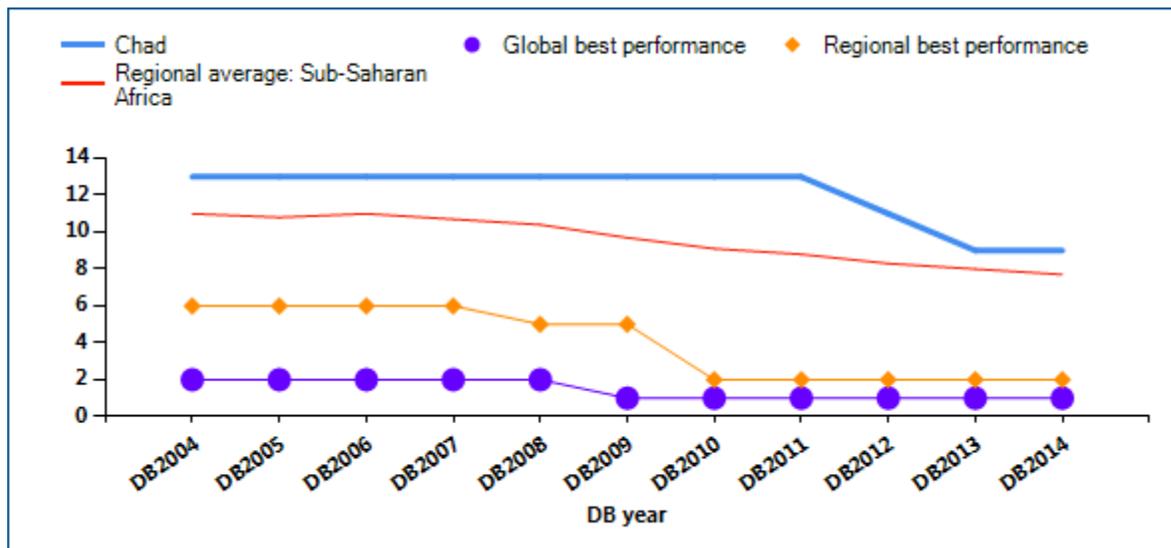
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the procedures, time, cost or paid-in minimum capital required to start a business (figure

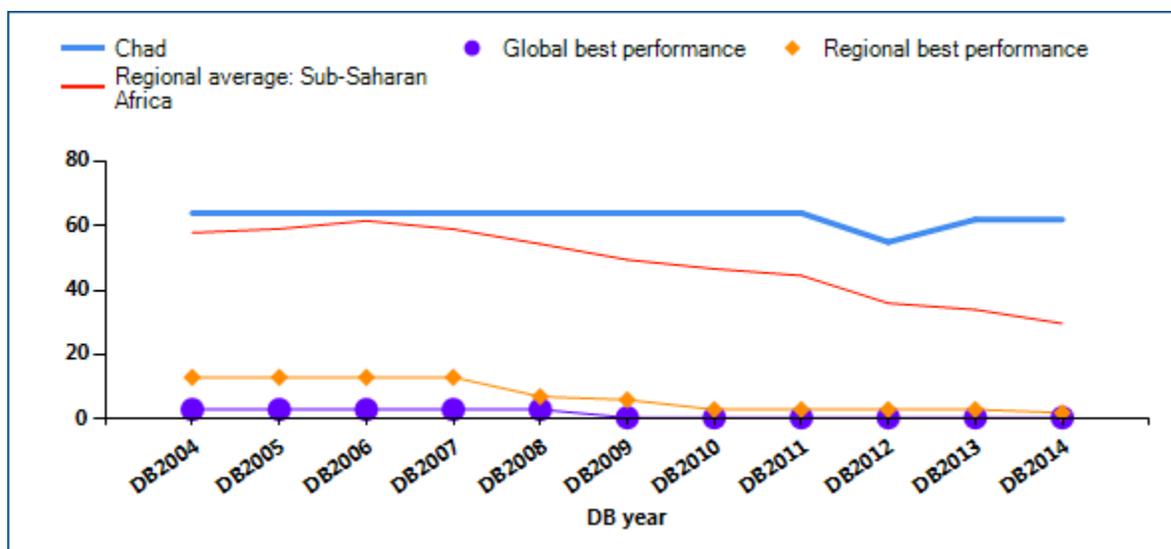
2.3) can help show what is possible in making it easier to start a business. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 2.3 Has starting a business become easier over time?

Procedures (number)

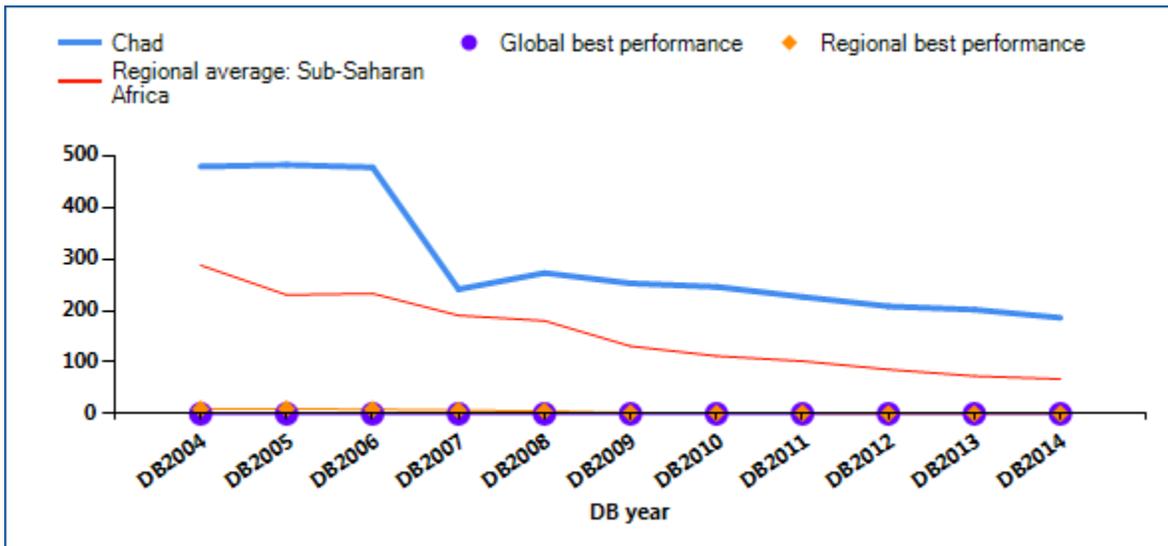


Time (days)

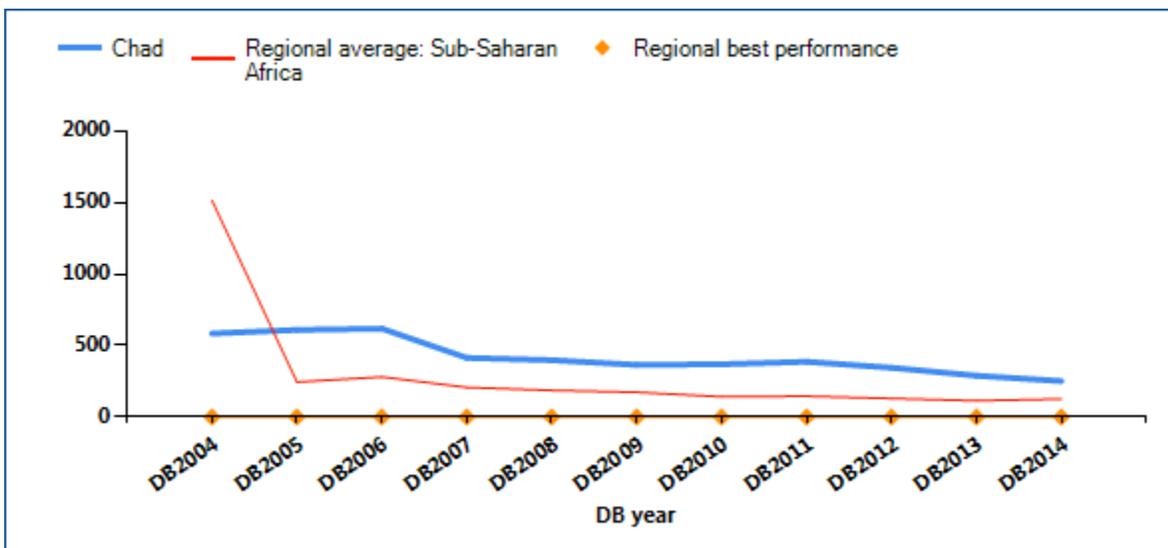


STARTING A BUSINESS

Cost (% of income per capita)



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



Note: Ninety economies globally have no paid-in minimum capital requirement. DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

Source: Doing Business database.

STARTING A BUSINESS

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

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

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

Table 2.1 How has Chad made starting a business easier—or not?
By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	Chad made starting a business easier by eliminating the requirement for a medical certificate and by replacing the requirement for a copy of the founders' criminal records with one for a sworn declaration at the time of the company's registration.
DB2013	Chad made starting a business easier by setting up a one-stop shop.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

STARTING A BUSINESS

What are the details?

Underlying the indicators shown in this chapter for Chad 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: N’Djamena

Legal Form: Société à Responsabilité Limitée (SARL) - Limited Liability Company

Paid in Minimum Capital Requirement: XAF 1,000,000

Start-up Capital: 10 times GNI per capita

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

No.	Procedure	Time to complete	Cost to complete
1	<p>Open a bank account, deposit the legally required initial capital in a bank and obtain deposit evidence</p> <p>To enable the company to open this bank account, the notary delivers a certificate stating that the company is in the process of being incorporated.</p>	1 day	no charge
2	<p>Check the uniqueness of the company name and pick up a company registration form</p> <p>To avoid future lawsuits, the founders must pick a name that is not already in use. The Register now has a database with the names of all companies registered since 2004. Registrations prior to 2004 are not in the database. The Search is done quickly.</p>	1 day	no charge
3	<p>Notarize the company’s deeds and articles of association</p> <p>Decree n° 004/PR/PM/MJ/2010 of 05 January 2010 fixed the notary fees at a rate with declining basis as follows:</p> <ul style="list-style-type: none"> • From XAF 1,000,000 to 10,000,000, 5%, with the limit of XAF 300,000 • From XAF 10,000,001 to 50,000,000, 3% with the limit of XAF 750,000 • From XAF 50,000,001 to 100,000,000, 1.5%, with the limit of XAF 1,000,000 • From XAF 100,000,001 to 500,000,000, 1%, with the limit of XAF 2,500,000 • From XAF 500,000,001 to 1.000.000.000, 0.5%, with the limit of XAF 3,750,000 	8 days	XAF 198,754

No.	Procedure	Time to complete	Cost to complete
4	<p>Register the articles of association with the Service d'Enregistrement, des Domaines et du Timbre</p> <p>The fee is regulated by Arrêté n°015/MCIA/SG/2004 (fixant le taux d'obtention d'un acte administratif d'exercer des activités de commerce, d'industrie ou d'artisanat). The following documents need to be submitted with the registrar.</p> <ul style="list-style-type: none"> • The Articles of association: XAF 6,000 (original + copies of meeting minutes + expedition) • La déclaration de souscription du capital : 3% du montant du capital + les frais de timbres XAF 1,000 /page (the declaration is 1 page) • Le Bulletin de souscription: XAF 3,000 + timbre (XAF 1,000/page multiply by the number of partners) • Etat de souscription: XAF 3,000 <p>Registration fees are as follow: XAF 10,000 (Fee for the CFE) + XAF 42,000 (Fee for ANIE) + XAF 8,000 (RCCM) + XAF 20,000 (Trésor public) + XAF 3,000 (Stamps) + XAF 5,000 (Chamber of commerce)</p>	2 days	XAF 137,252
5	<p>Register at the Centre de Formalite des Entreprises (Registration with RCCM, Administrative authorization from the Ministry of Commerce and Industry, Tax registration, Registration with CNSS)</p> <p>The cost depends on the category of the company. The documents to be provided are:</p> <ul style="list-style-type: none"> • Criminal records • Articles of association • Subscription of the declared capital • Identification card (copy) • Rental contract which must be notarized 	2-3 weeks	see comments
6	<p>Make a formal announcement through legal journals/newspapers proclaiming the existence of the company</p> <p>The publication is necessary to inform the public that the company now exists. The RCCM number and the address of the company must be provided.</p>	3 days	XAF 50,000 in legal journal, variable in a newspaper

No.	Procedure	Time to complete	Cost to complete
7	<p>* Pay the patente (Direction des Impots)</p> <p>The patente must be paid immediately after the NIF is obtained. The NIF is the identification for the payment of the VAT and IRPP.</p> <p>Elements included in the calculation of the Patente:</p> <p>Chiffre d'affaires (estimated in this case study to be FCFA 28,988,026) x 0.1% = DD (Droit Determiné). CNPS = 10% of the DD CCC = 7% of the DD RAV = 3% of the DD ONASA = 480 XAF (the company must pay this amount in full, whereas for the employee, it is only 40 XAF monthly) TVLP = 10% of the annual rent paid by the company</p> <p>The patent is done in 4 copies:</p> <ul style="list-style-type: none"> • Treasury • The LLC itself • Remain the file of the LLC • Remain in the book 	1 day (simultaneous with procedure 6)	XAF 248,430 (see details)
8	<p>* Submission of the Internal Regulation Code to the Labor Inspection Office (Inspection du Travail)</p> <p>This procedure is required for companies with 25 employees or more. The contract of employees will be checked to ensure that it is in accordance with the labor law and internal regulations.</p>	30 days (simultaneous with procedure 6)	no charge
9	<p>* Make a company seal</p> <p>According to OHADA rules, the company is required to have the number of the RCCM and the address on each invoice. A seal is done in practice to make the invoices more official, but it is not legally required.</p>	7 days (simultaneous with procedure 6)	XAF 18,000

* Takes place simultaneously with another procedure.

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

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

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

What do the indicators cover?

Doing Business records the procedures, time and cost for a business in the construction industry to obtain all the necessary approvals to build a warehouse in the economy's largest business city, connect it to basic utilities and register the 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 or engineer.

WHAT THE DEALING WITH CONSTRUCTION PERMITS INDICATORS MEASURE

Procedures to legally build a warehouse (number)

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

Submitting all required notifications and receiving all necessary inspections

Obtaining utility connections for water, sewerage and a land 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. Procedures that can be fully completed online are an exception to this rule.

Procedure considered completed once final document is received

No prior contact with officials

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

Official costs only, no bribes

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

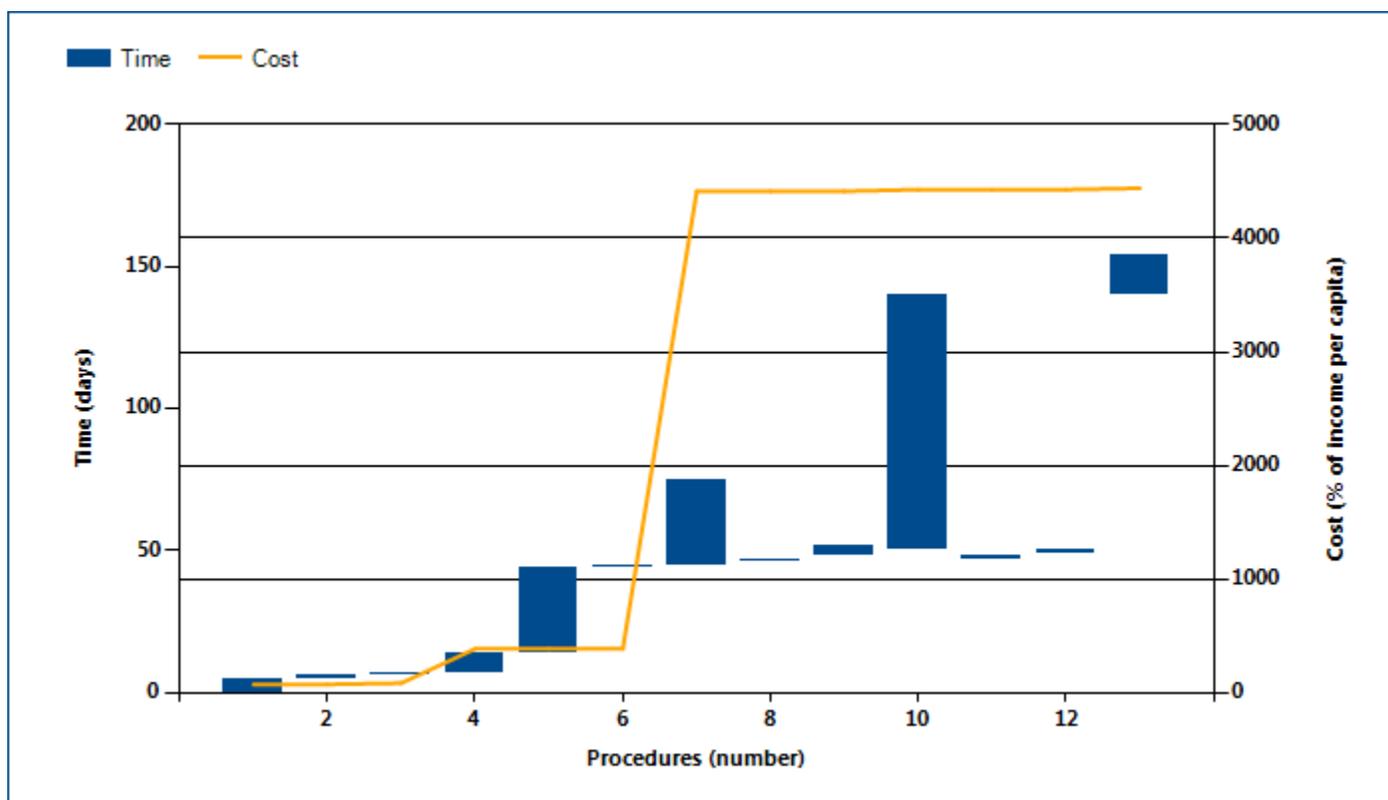
DEALING WITH CONSTRUCTION PERMITS

Where does the economy stand today?

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

permits there requires 13 procedures, takes 154.0 days and costs 4438.9% of income per capita (figure 3.1).

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



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

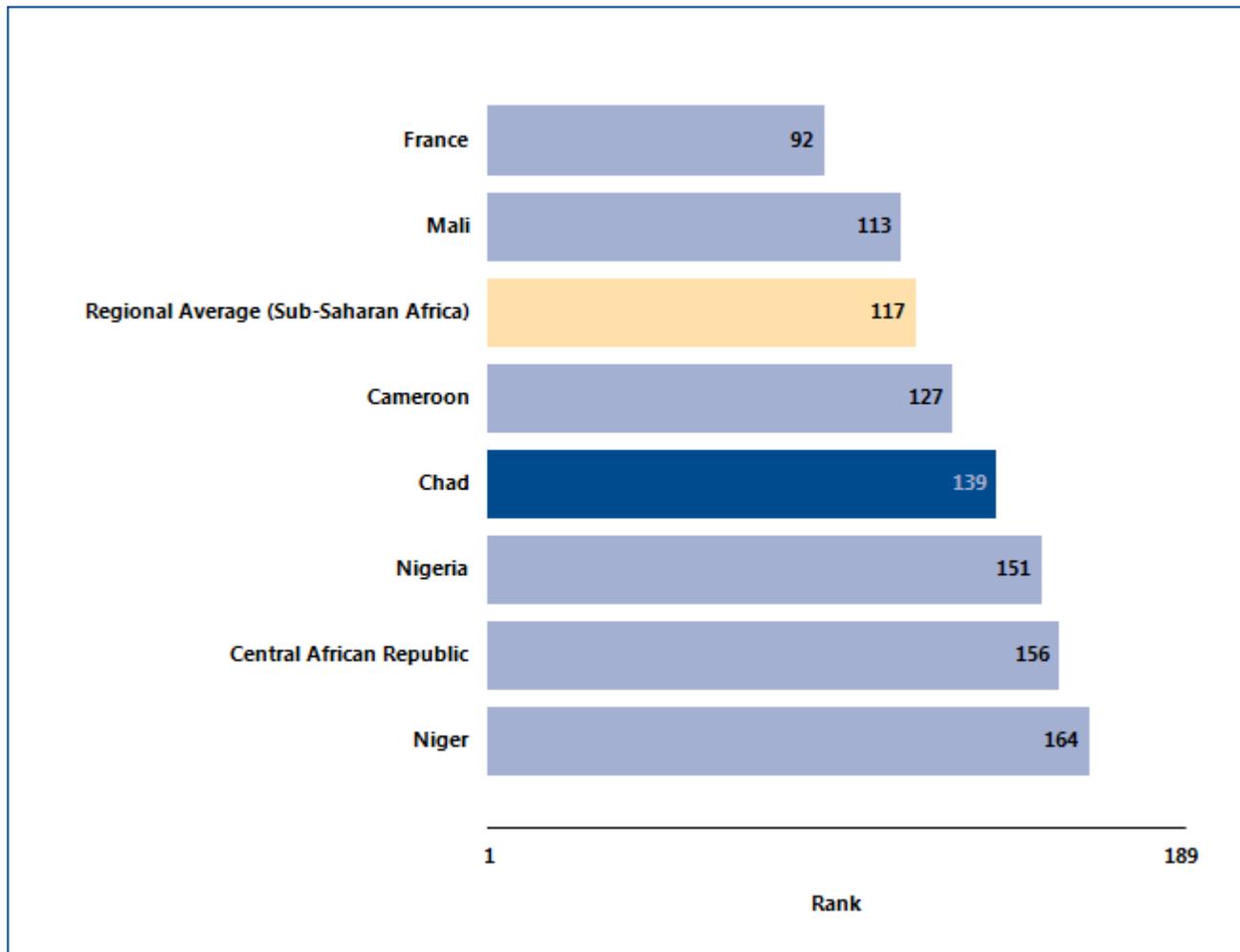
Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

Globally, Chad stands at 139 in the ranking of 189 economies on the ease of dealing with construction permits (figure 3.2). The rankings for comparator

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

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



Source: Doing Business database.

DEALING WITH CONSTRUCTION PERMITS

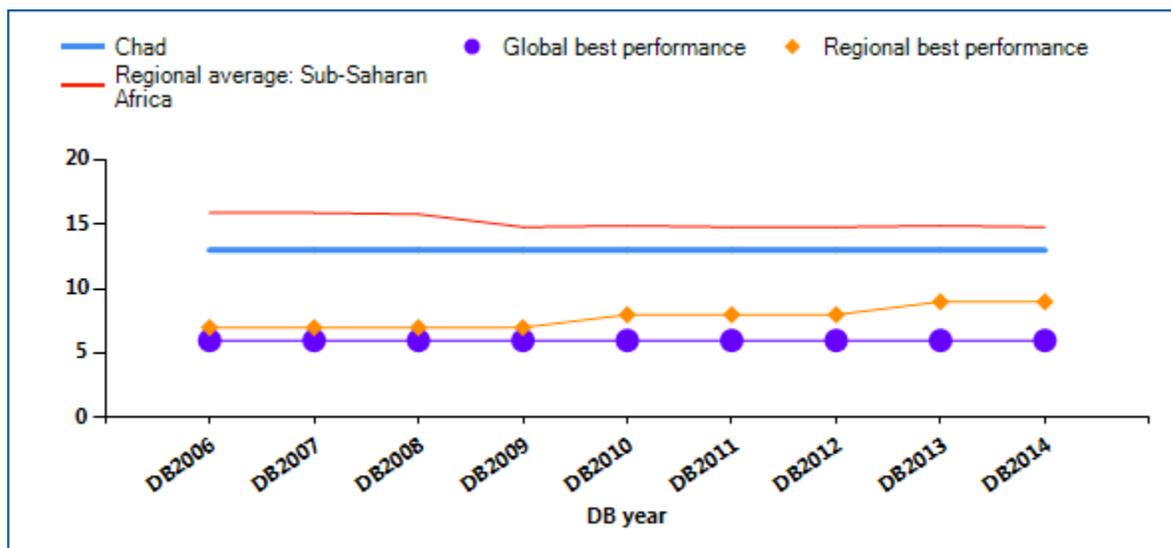
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the procedures, time or cost required to deal with construction permits (figure 3.3) help show

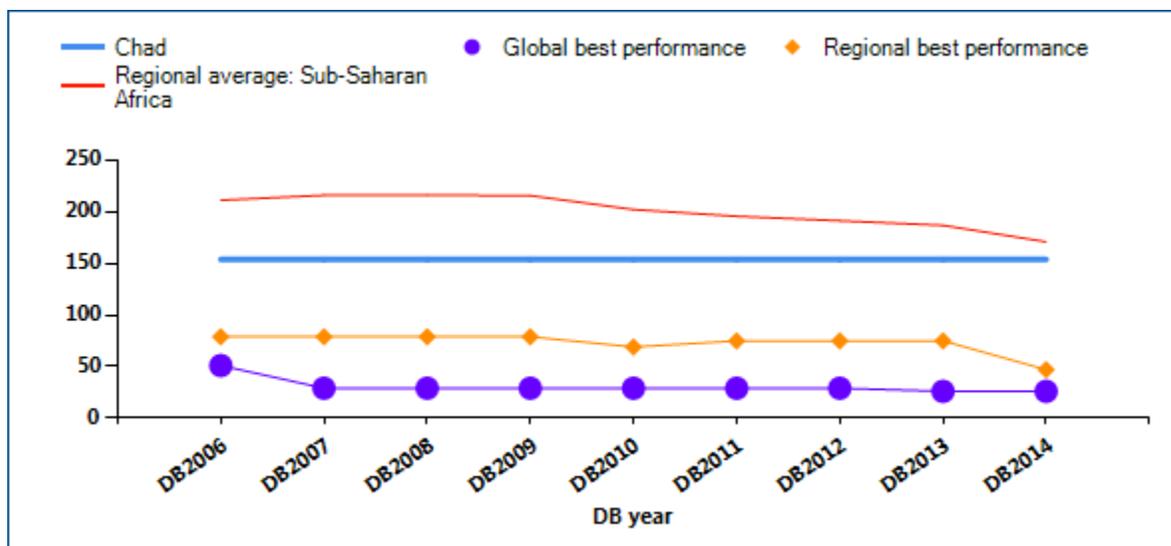
what is possible in making it easier to deal with construction permits. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

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

Procedures (number)

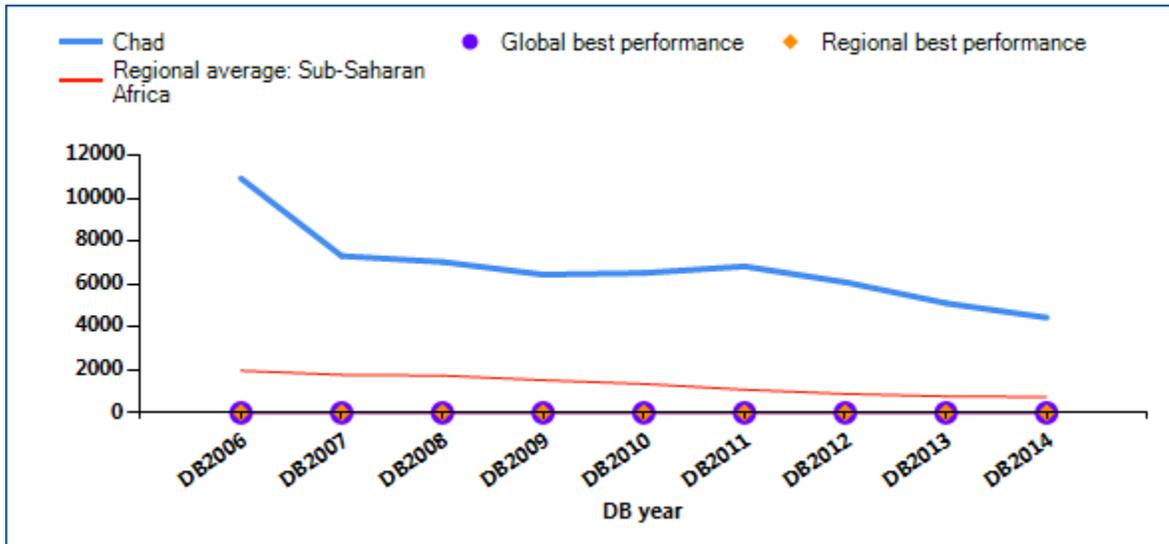


Time (days)



DEALING WITH CONSTRUCTION PERMITS

Cost (% of income per capita)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. For more information on "no practice" marks, see the data notes.

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

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

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

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

By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

DEALING WITH CONSTRUCTION PERMITS

What are the details?

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

BUILDING A WAREHOUSE

City : N'Djamena

Estimated Warehouse Value : FCFA 400,000,000

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

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

No.	Procedure	Time to complete	Cost to complete
1	<p>Obtain a geotechnical study</p> <p>This study must be done prior to the design of the structural plans, which will be based on the result of this study. The cost depends on the laboratory involved and the number of “points” (holes made to verify the type of soil). For this case study, 2 points are considered.</p>	5 days	XAF 300,000
2	<p>Deposit technical file at municipality to apply for building permit</p> <p>The permit request can be delivered directly to the Municipality or in one the various districts. The municipality will then transmit the request, internally, to the Service Technique where the request will be study and forwarded to the various departments in the Ministry of Environment, Urbanism and Habitat.</p> <p>The following documents must be submitted:</p> <ul style="list-style-type: none"> • Plan de situation échelle 1/100 – 1/200 • Plan de terrain • Plan des differents niveaux • Plan de Masse • Plan de façade (4 facades) (case study: 1 for 1st level and 1 for 2nd level) • Plan de coupe (2 coupes) • Plan de toiture • Plan de l'électricité (case study: 1 for 1st level and 1 for 2nd level) • Plan de structure (case study: 1 for 1st level and 1 for 2nd level) • Plan de plomberie (case study: 1 for 1st level and 1 for 2nd level) • Plan de Menuiserie (case study: 1 for 1st level and 1 for 2nd level) • Plan de coffrage des poutres 	1 day	no charge

No.	Procedure	Time to complete	Cost to complete
	<ul style="list-style-type: none"> • Plan de puisard & de fosse septique (Plan type délivré par le Service des Bâtiments) • Description des travaux à faire (stamp duty FCFA 1,000.00) • Titre de propriété/foncier (PV du cadastre) • Estimated cost of construction (devis quantitatif et estimatif) • Summary of the soil study (stamp duty FCFA 1,000.00) 		
3	<p>Pay stamps duty at the Service des Domaines et du Timbre</p> <p>BuildCo must contact the Service Technique to know how much to be paid for the stamps duty. The cost is FCFA 1,000.00 per page for description and FCFA 2,000.00 for plans.</p>	1 day	XAF 40,000
4	<p>Pay and obtain a construction permit</p> <p>The permit is signed by the Mayor of N'Djamena and BuildCo will pick it up at the Service Technique. This provisional permit will become final after 45 days if the Ministry of Environment, Urbanism and Habitat have not delivered it yet.</p> <p>According to Ordonnance 70, from the time the first copy of the Construction permit is delivered to the Municipality, the Ministry has 45 days to deliver the Final construction permit. Otherwise, the provisional permit is considered final.</p>	7 days	XAF 1,200,000
5	<p>Request and receive final inspection for the certificate of conformity</p> <p>There is the final inspection for the delivery of the Certificat de Conformite. This is done by informing the Ministry of Environment, Urbanism and Habitat in person. There will be an onsite visit. This certificate is necessary for the decennial insurance.</p>	30 days	no charge
6	<p>Request and obtain an inspection for the reevaluation of the property</p> <p>The BuildCo must inform the Commission pour la mise-en-valeur -- service at the Municipality -- that construction is over. There will be an onsite visit to determine the new property value. The report of the onsite visit will be examined by the 7 members of the commission, and then transmitted to the Mayor for final signature. This Certificat de mise-en-valeur is then transmitted to the Service des Domaines et du Timbre.</p>	1 day	no charge

No.	Procedure	Time to complete	Cost to complete
7	Register the building at the Service des Domaines et du Timbres The fee is calculated as 4% of reevaluated cost of the property.	30 days	XAF 16,000,000
8	* Request water connection The request can be made either by sending a letter or in person. STEE prefers a letter from a Company as it is more formal.	1 day	no charge
9	* Receive on-site visit by STEE The onsite visit is done by STEE to ensure that the location is correct, to check the road number, the zone, and the door number to determine which water connection will be used for this client.	4 days	no charge
10	* Obtain water connection The cost will depend on the type of connection. The meter will be a 3 cubic meters. The client can be faced with two types of connection. The first type is the "collier de prise en charge" which is more expensive and cost about FCFA 110,000.00. Second type is "Une prise en T (inverse T): The connection will be at this end and the cost is about FCFA 60,000.00.	90 days	XAF 60,000
11	* Request phone line	1 day	no charge
12	* Receive inspection by telecom company SOTEL	1 day	no charge
13	Obtain telephone line	14 days	XAF 45,000

* Takes place simultaneously with another procedure.

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

Source: Doing Business database.

GETTING ELECTRICITY

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

What do the indicators cover?

Doing Business records all procedures required for a local business to obtain a permanent electricity connection and supply for a standardized warehouse, as well as the time and cost to complete them. These procedures include applications and contracts with electricity utilities, clearances from other agencies and the external and final connection works. The ranking 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 150 meters long and is a 3-phase, 4-wire Y, 140-kilovolt-ampere (kVA) (subscribed capacity) connection.

WHAT THE GETTING ELECTRICITY

INDICATORS MEASURE

Procedures to obtain an electricity connection (number)

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

Time required to complete each procedure (calendar days)

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

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

- Official costs only, no bribes
- Excludes value added tax
- Is to either the low-voltage or the medium-voltage distribution network and either overhead or underground, whichever is more common in the economy and area where the warehouse is located. The length of any connection in the customer's private domain is negligible.
- Requires crossing of a 10-meter road but all the works are carried out in a public land, so there is no crossing into other people's private property.
- Involves installing one electricity meter. The monthly electricity consumption will be 0.07 gigawatt-hour (GWh). The internal electrical wiring has been completed.

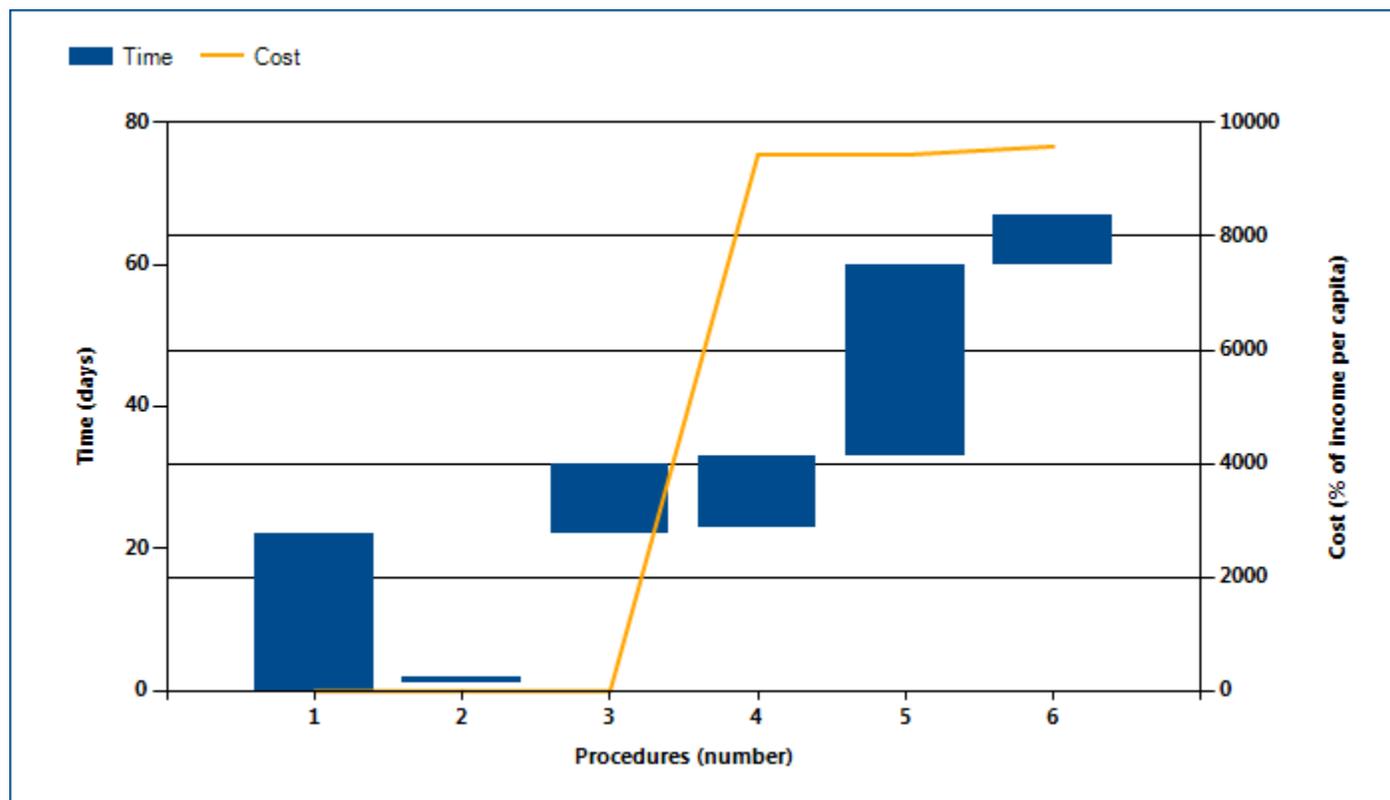
GETTING ELECTRICITY

Where does the economy stand today?

What does it take to obtain a new electricity connection in Chad? According to data collected by *Doing Business*, getting electricity there requires 6

procedures, takes 67 days and costs 9580.1% of income per capita (figure 4.1).

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



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

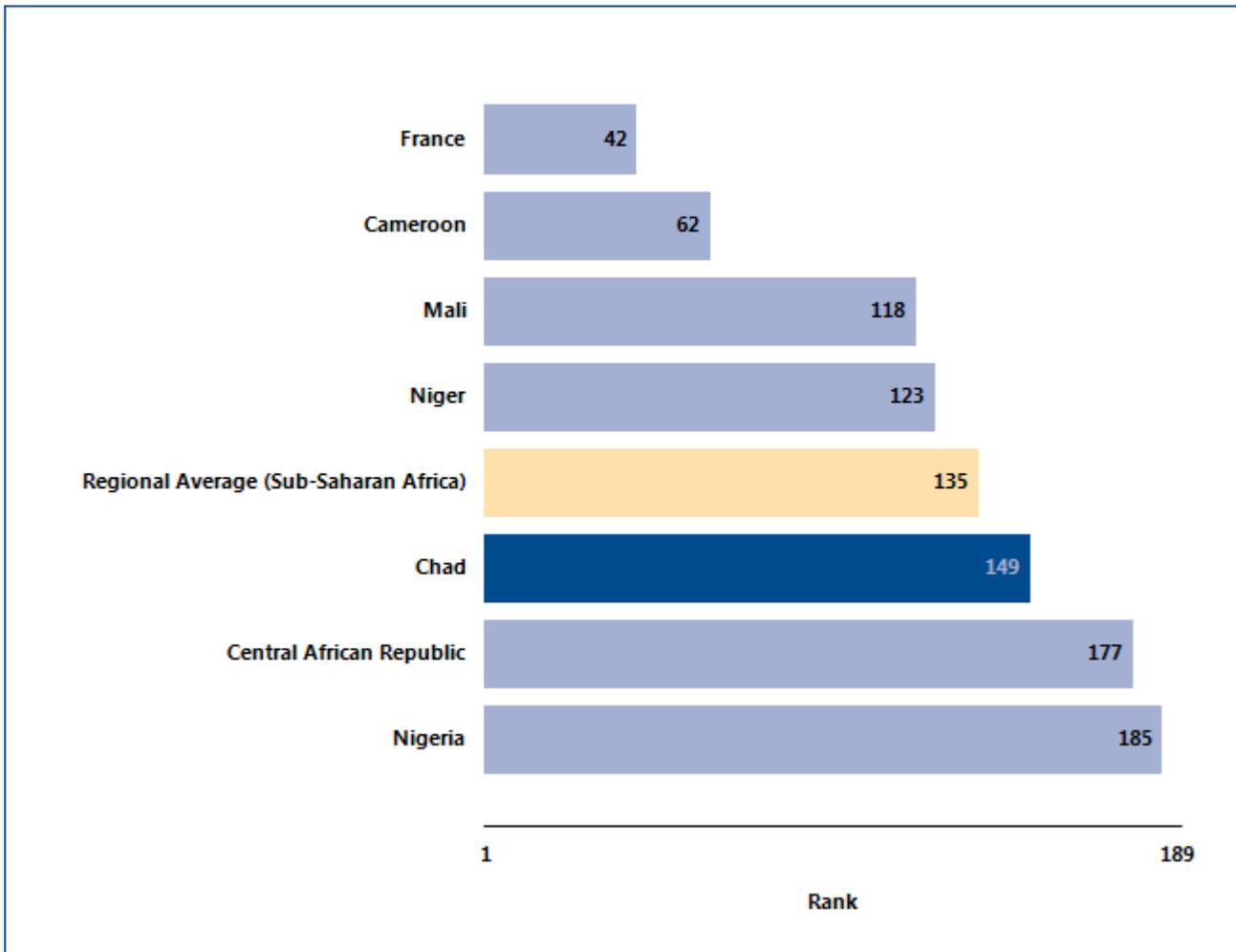
Source: *Doing Business* database.

GETTING ELECTRICITY

Globally, Chad stands at 149 in the ranking of 189 economies on the ease of getting electricity (figure 4.2). The rankings for comparator economies and the

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

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



Source: Doing Business database.

GETTING ELECTRICITY

Even more helpful than rankings on the ease of getting electricity may be the indicators underlying those rankings (table 4.1). And regional and global best performers on these indicators may provide useful benchmarks.

Table 4.1 The ease of getting electricity in Chad

Indicator	Chad DB2014	Chad DB2013	Best performer in Sub-Saharan Africa DB2014	Best performer globally DB2014
Rank	149	150	Mauritius (48)	Iceland (1)
Procedures (number)	6	6	Comoros (3)	10 Economies* (3)
Time (days)	67	67	Rwanda (30)	Germany (17)
Cost (% of income per capita)	9,580.1	11,017.6	Mauritius (281.1)	Japan (0.0)

Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

* Two or more economies share the top ranking on this indicator. For a list of these economies, see the *Doing Business* website (<http://www.doingbusiness.org>).

Source: *Doing Business* database.

GETTING ELECTRICITY

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

safety in the connection process while keeping connection costs reasonable, governments around the world have worked to consolidate requirements for obtaining an electricity connection. What reforms in getting electricity has *Doing Business* recorded in Chad (table 4.2)?

Table 4.2 How has Chad made getting electricity easier—or not?

By *Doing Business* report year

DB year	Reform
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

Source: *Doing Business* database.

GETTING ELECTRICITY

What are the details?

The indicators reported here for Chad 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: N'Djamena

Name of Utility: Société Tchadienne d'Eau et d'Electricité (STEE)

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 Chad—and the time and cost

No.	Procedure	Time to complete	Cost to complete
1	<p>The client submits application for electricity and awaits estimate of connection fees from Société Nationale d'Electricité (SNE)</p> <p>The client can either write to the Commercial Department of the electricity company or submit the application in person (in which case the client will need to pay an application fee). The electricity company prefers the former option as it is more formal.</p>	22 calendar days	XAF 3,000.0
2	<p>The client obtains inspection of the site by Société Nationale d'Electricité (SNE)</p> <p>The fees (material, connection, and subscription) are paid at this point in the case of a low-voltage connection. For a medium-voltage case they can be paid after the works have started (or ended). In any case, subscription fees have to be paid before the warehouse is supplied with electricity.</p> <p>Staff from the electricity company inspect the site and carry out a technical study. This onsite visit is done by SNE only to ensure that the location is correct, to check the road number, the zone, and the door number to determine which electricity post and also water connection will be used for this client. After the onsite visit and confirmation of the location, the request is transmitted to the Service Technique for study and establishing a cost estimate. This department will tell the client about all materials to be bought, where to buy them, and what quality to buy.</p>	1 calendar day	no charge

No.	Procedure	Time to complete	Cost to complete
3	<p>The client obtains an excavation permit from the municipality</p> <p>When SNE does the works it does not have to apply for an excavation permit because it has a tacit agreement with the municipality ("voirie") already.</p> <p>When it is a private firm that does the works, then the client (or their contractor) will need to obtain an excavation permit to be able to do the works.</p>	10 calendar days	no charge
4	<p>The client buys the material for the external works and obtains testing of the material by Société Nationale d'Electricité (SNE)</p> <p>SNE will send a technician to inspect the material bought by the client to ensure that the quality is in accordance to the list provided by SNE.</p>	10 calendar days	XAF 37,500,000.0
5	<p>The client obtains external works by private electrical contractor</p> <p>The client has a choice between hiring a private firm to do the works or asking SNE to carry them out. In the cases where an expansion of the network is needed, it is more common to hire a private firm to do the works.</p> <p>Type of works: Works consist of installing a substation on the client's plot and connecting it to SNE MV network. From a technical point of view, two types of substation are possible:</p> <p>(a) Option 1 : A pre-fabricated transformer, such as a « type bocage » transformer. A new substation (160-kVA transformer) is installed on the client's property. The low-voltage connection to the warehouse is done in this same, private property. Connection to the utility's medium-voltage network is done in the public domain. The medium-voltage meter is incorporated within the substation.</p> <p>(b) Option 2 : The "bocage" transformer is usually bought in Europe, and thus leads to delays in procurement. Another option is to build a concrete ("ciment") transformer. It will take less time and cost less. Plus, from a technical point of view, it is preferred over option 1 because in excess heat the concrete transformer heats up less than the pre-fabricated one.</p>	27 calendar days	no charge

No.	Procedure	Time to complete	Cost to complete
6	The client obtains final connection and turn-on of supply from Société Nationale d'Electricité (SNE) SNE will pull a wire from the substation to the existing medium-voltage network and turn on the supply.	7 calendar days	XAF 578,705.4

* Takes place simultaneously with another procedure.

Source: *Doing Business* database.

REGISTERING PROPERTY

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

What do the indicators cover?

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

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

The parties (buyer and seller):

- Are limited liability companies, 100% domestically and privately owned.
- Are located in the 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 cadastral, or both, and is free of title disputes.
- Is located in a periurban commercial zone,

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. Procedures that can be fully completed online are an exception to this rule.

Procedure considered completed once final document is received

No prior contact with officials

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

Official costs only, no bribes

No value added or capital gains taxes included

and no rezoning is required.

- 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. There is no heating system. The property will be transferred in its entirety.

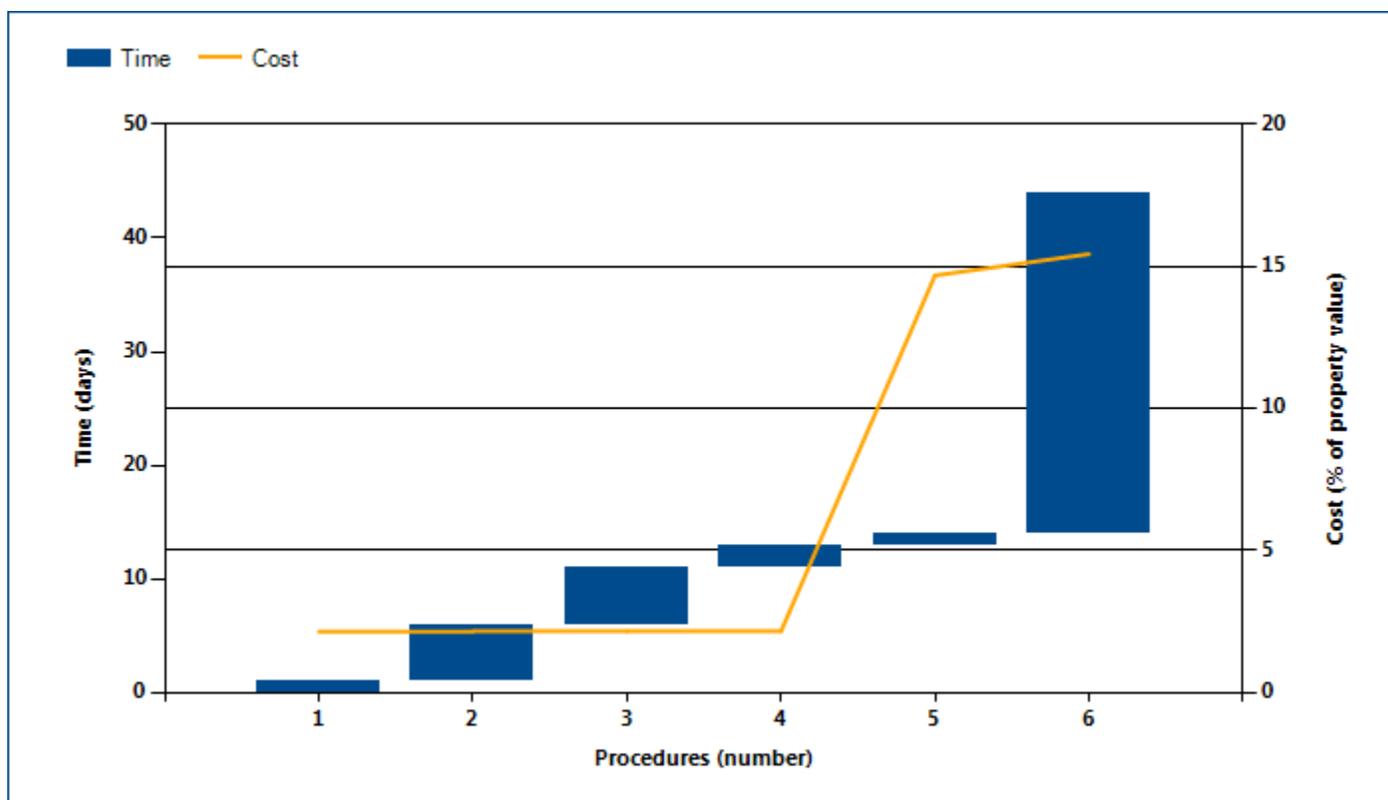
REGISTERING PROPERTY

Where does the economy stand today?

What does it take to complete a property transfer in Chad? According to data collected by *Doing Business*, registering property there requires 6 procedures, takes

44.0 days and costs 15.4% of the property value (figure 5.1).

Figure 5.1 What it takes to register property in Chad



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

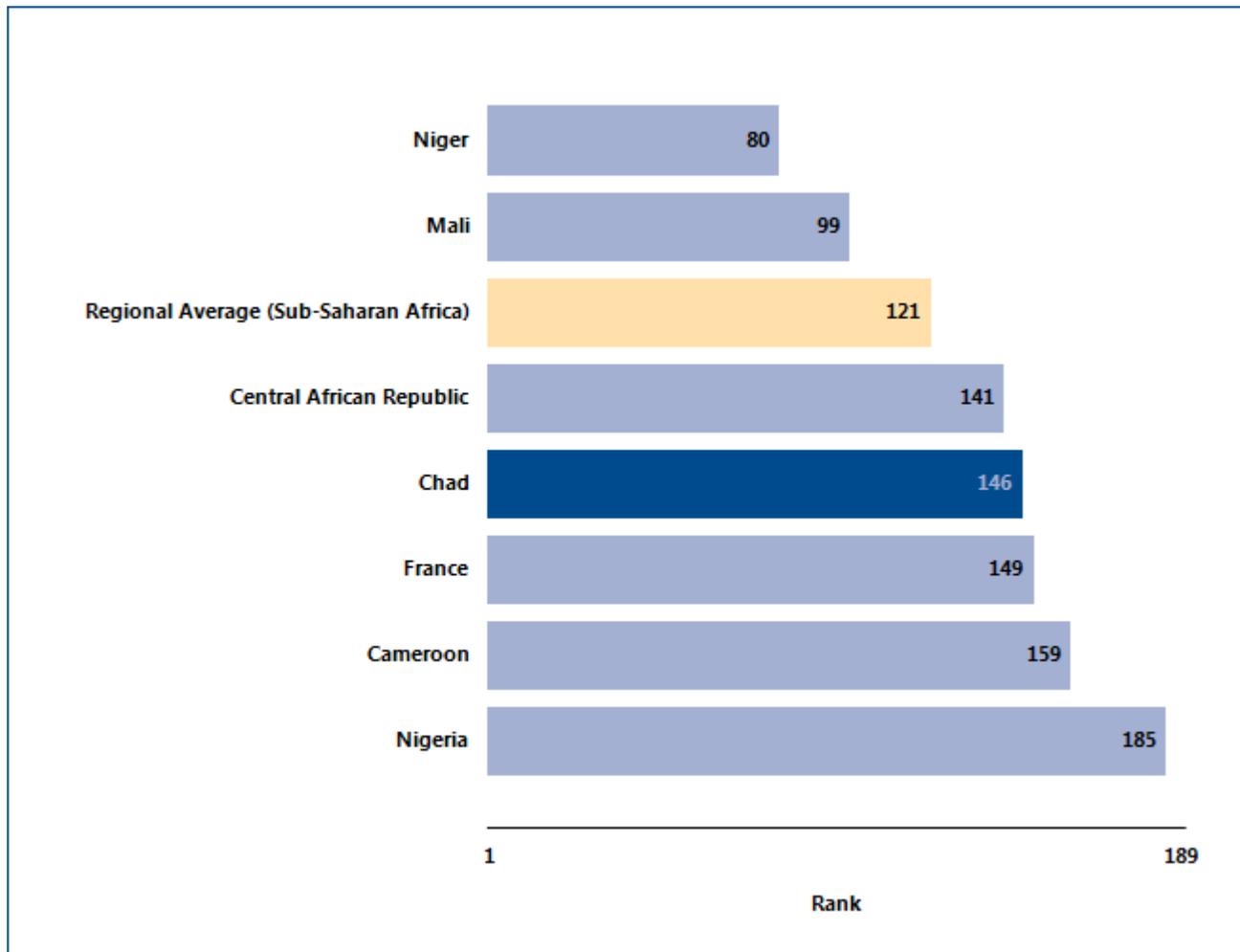
Source: *Doing Business* database.

REGISTERING PROPERTY

Globally, Chad stands at 146 in the ranking of 189 economies on the ease of registering property (figure 5.2). The rankings for comparator economies and the

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

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



Source: *Doing Business* database.

REGISTERING PROPERTY

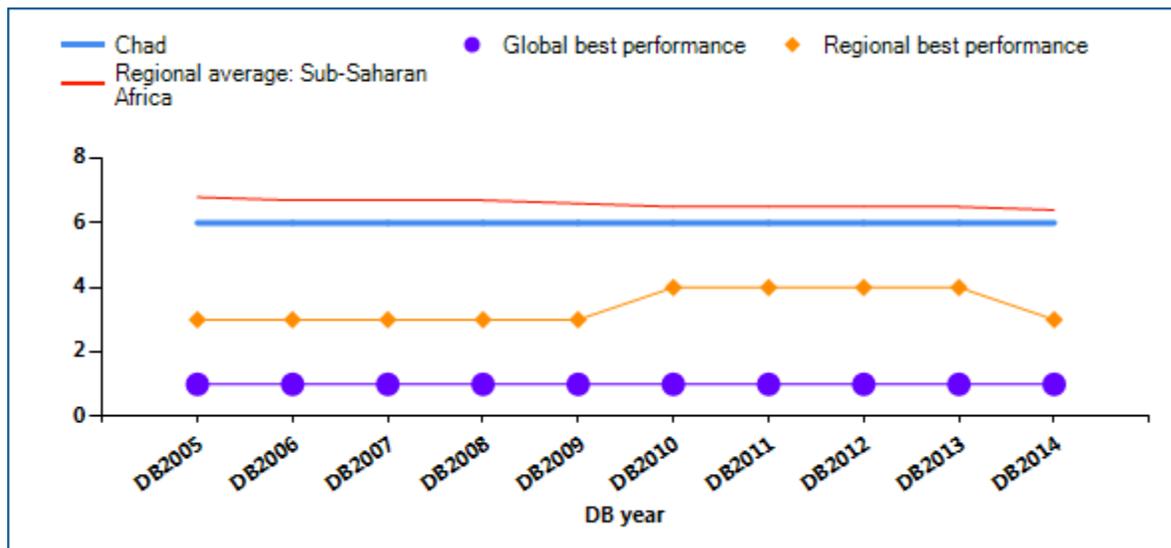
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the procedures, time or cost required to complete a property transfer (figure 5.3) help show

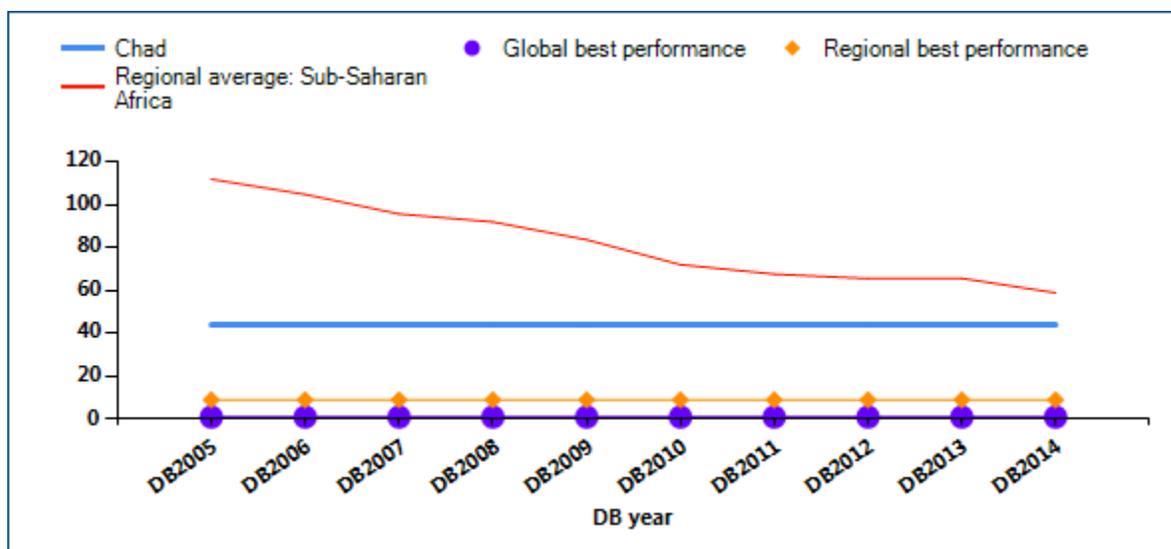
what is possible in making it easier to register property. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 5.3 Has registering property become easier over time?

Procedures (number)

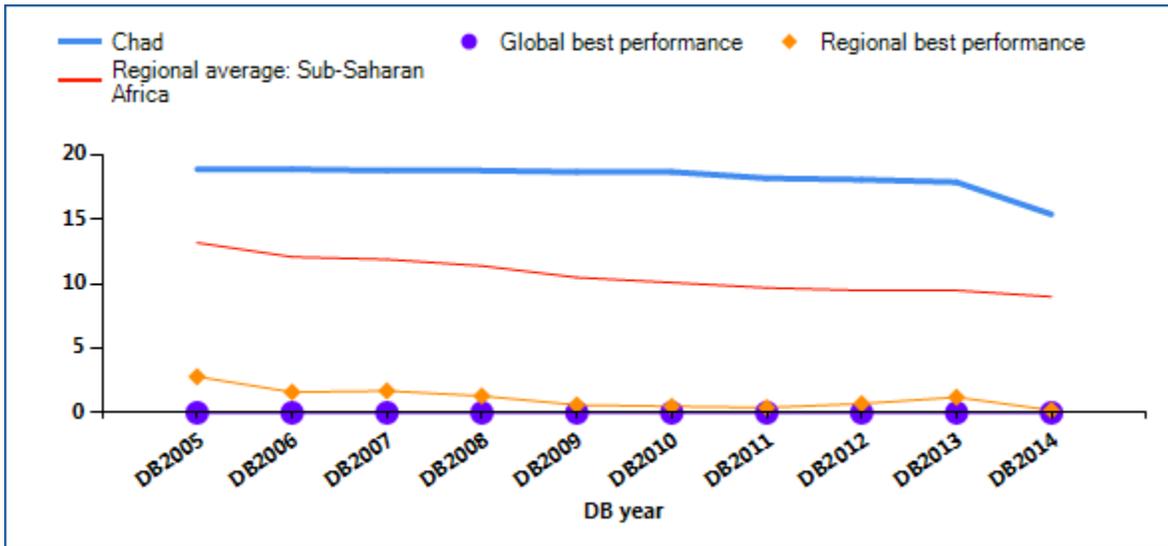


Time (days)



REGISTERING PROPERTY

Cost (% of property value)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. For more information on "no practice" marks, see the data notes.

Source: Doing Business database.

REGISTERING PROPERTY

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

have cut the time required substantially—enabling buyers to use or mortgage their property earlier. What property registration reforms has *Doing Business* recorded in Chad (table 5.1)?

Table 5.1 How has Chad made registering property easier—or not?
By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	Chad made transferring property easier by lowering the property transfer tax.

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

Source: *Doing Business* database.

REGISTERING PROPERTY

What are the details?

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

STANDARD PROPERTY TRANSFER	
City:	N’Djamena
Property Value:	XAF 19,875,479

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

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

No.	Procedure	Time to complete	Cost to complete
1	<p>The public notary drafts and notarizes the sale agreement</p> <p>The Law expressly states that all legal acts involving real estate transactions should be witnessed and notarized by a public notary. The parties can draft the sale agreement themselves and only ask the public notary to notarize the agreement. It is, however, common practice to ask the public notary to draft the sale contract. The Law imposes on the public notary, before notarizing the agreement, to perform all required investigations and due diligence.</p> <p>According to Note Circulaire n° 01//CN du 08 mai 2002 du Président de l’Ordre suite à la délibération de l’Ordre des Notaires du 1er mai 2002 notary fees are 3% of property value.</p> <p>By the terms of article 64 of decree n° 630/PR/MJ/96 of 22/11/1996 regarding the statute on notaries: "the memorandum of association or the transfer of immovable properties are obligatorily notarized. The authentication only concerns agreements under private signatures.</p>	1 day	<p>Cumulative fee from 8% to 1.5% of property value according to official notary fee schedule</p> <p>Notary Fee schedule (Article 9 du Decret n° 004/PR/PM/MJ/2010 published on December 10, 2009):</p> <ul style="list-style-type: none"> - From 200.000 - 500.000 | 0% but not more than 40.000 F CFA | - From 500.001 - 1.000.000 | 8% but not more than 50.000 F CFA | - From 1.000.001 -

No.	Procedure	Time to complete	Cost to complete
			3.000.000 | 5% but not more than 60.000 F CFA | - From 3.000.001 - 10.000.000 | 2% but not more than 150.000 F CFA | - From 10.000.001 - 50.000.000 | 1,5% but not more than 500.000 F CFA | - From 50.000.001 - 100.000.000 | 1,25% but not more than 625.000 F CFA | - From 100.000.0001 - 500.000.000 | 0,5% but not more than 1.500.000 F CFA | - From 500.000.0001 - 1.000.000.000 and over | 0,3% but not more than 2.500.000 F CFA. |
2	<p>Check the accuracy of the property's surface and boundaries with the Cadastre</p> <p>The public notary has to check with the cadastral services that the land area and boundaries as defined in the sale agreement are correct and not overstated (or understated). The public notary can either write to the concerned services or go by himself or send one of his employees.</p>	5 days	The request must be stamped with a value of 1,000 FCFA

No.	Procedure	Time to complete	Cost to complete
3	<p>Check with the Land Registry that the seller is providing a clear and non-encumbered title</p> <p>The public notary has to check whether the seller of the property is the true owner with the Services des Domaines, which is the Land Registry in the Country. The public notary also has to check that the owner's title is clear of mortgages, liens and other kind of security charge. The notary can either write to the director, or personally go to the land registry for due diligence.</p> <p>The Direction des domaines is under the authority of the Ministry of Urbanism, Habitat and Land Affairs. In addition, it is necessary to address a written request to the Registrar of real estate properties, for verifications relative to the property title.</p>	5 days	The request must be stamped with a value of 1,000 FCFA
4	<p>Obtain the notarized draft of the sale agreement</p> <p>After accomplishing all due diligence checks, the public notary has fulfilled his legal obligations under the law and can now draft and notarize the sale agreement for the parties. The parties will need to pick up the final sale contract to register it with the "Direction des Domaines".</p> <p>Additional observations: As mentioned in procedure n° 1, the sale agreement must be drafted by the notary.</p>	2 days	no cost
5	<p>Register the sale agreement with the "Service des Domaines"</p> <p>The parties should register the sale agreement at the Direction des Domaines. This registration costs 12.5% of the property value (Registration Tax)</p> <p>Property transfers are subject to stamp duty at a rate of 1000F per page. One pays the stamp duty upon the signature of the sale agreement and the pronouncement of the adjudication.</p> <p>Additional observations: From January 1, 2013, date of entry into effect of law n° 01/PR/2013 arising from the general budget of the state for 2013, the article n° 444 of the general code of taxes relative to registration fees was modified and the tax for the registration of the sale agreement for the transfer of properties (either with buildings or without) is now at a rate of 12.5% property value.</p>	1 day	12.5% property value (registration tax) + 4,000 FCFA stamp duty (1000FCFA per page, 4 pages)

No.	Procedure	Time to complete	Cost to complete
6	<p>Request the final transfer of property with the "Registre de la Conservation Foncière".</p> <p>With the notarized sale agreement and the certificate of registration, the parties are now eligible to file an application for the effective transfer of property to the buyer. The request is filed with the "Registre de la Conservation Foncière" where Land documentations are kept. The employee of the Registry conducts a final due diligence before making the final transfer of property.</p> <p>Cost involves the following:</p> <p>(i) 4‰ of the property value (Salary of the "Conservateur")</p> <p>(ii) the 'taxe de bornage' is due according to adjudication or over the counter agreement based on the following rates :</p> <p>Area | Sum |</p> <p>Less than 299 m² | 50.000 FCFA |</p> <p>from 300 to 499 m² | 60.000 FCFA |</p> <p>from 500 to 799 m² | 70.000 FCFA |</p> <p>from 800 to 999 m² | 80.000 FCFA |</p> <p>from 1000 to 1199 m² | 90.000 FCFA |</p> <p>from 1200 to 1500 m² | 100.000 FCFA |</p> <p>above up to 1800 m² | 100.000 FCFA plus an additional 200 FCFA/m² |</p> <p>Additional observations: |</p> <p>Article 2 of Decree n° 211/PR/MFM/86, mentioning distribution of revenues from transfers, transcriptions, registrations and entry of mortgages, fixes the fees for transfers and transcriptions at 4 per thousand of the value of the immovable. |</p>	30 days	4 for a thousand (4 o/oo) of the property value (property transfer) + 70,000 (taxe de bornage)

No.	Procedure	Time to complete	Cost to complete

* Takes place simultaneously with another procedure.

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

Source: *Doing Business* database.

GETTING CREDIT

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

What do the indicators cover?

Doing Business assesses the sharing of credit information and the legal rights of borrowers and lenders with respect to secured transactions through 2 sets of indicators. The depth of credit information index measures rules and practices affecting the coverage, scope and accessibility of credit information available through a public credit registry or a private credit bureau. The strength of legal rights index measures whether certain features that facilitate lending exist within the applicable collateral and bankruptcy laws. *Doing Business* uses 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, incorporated, 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)

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 up to 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 the sum of its component indicators: the depth of credit information index and the strength of legal rights index.

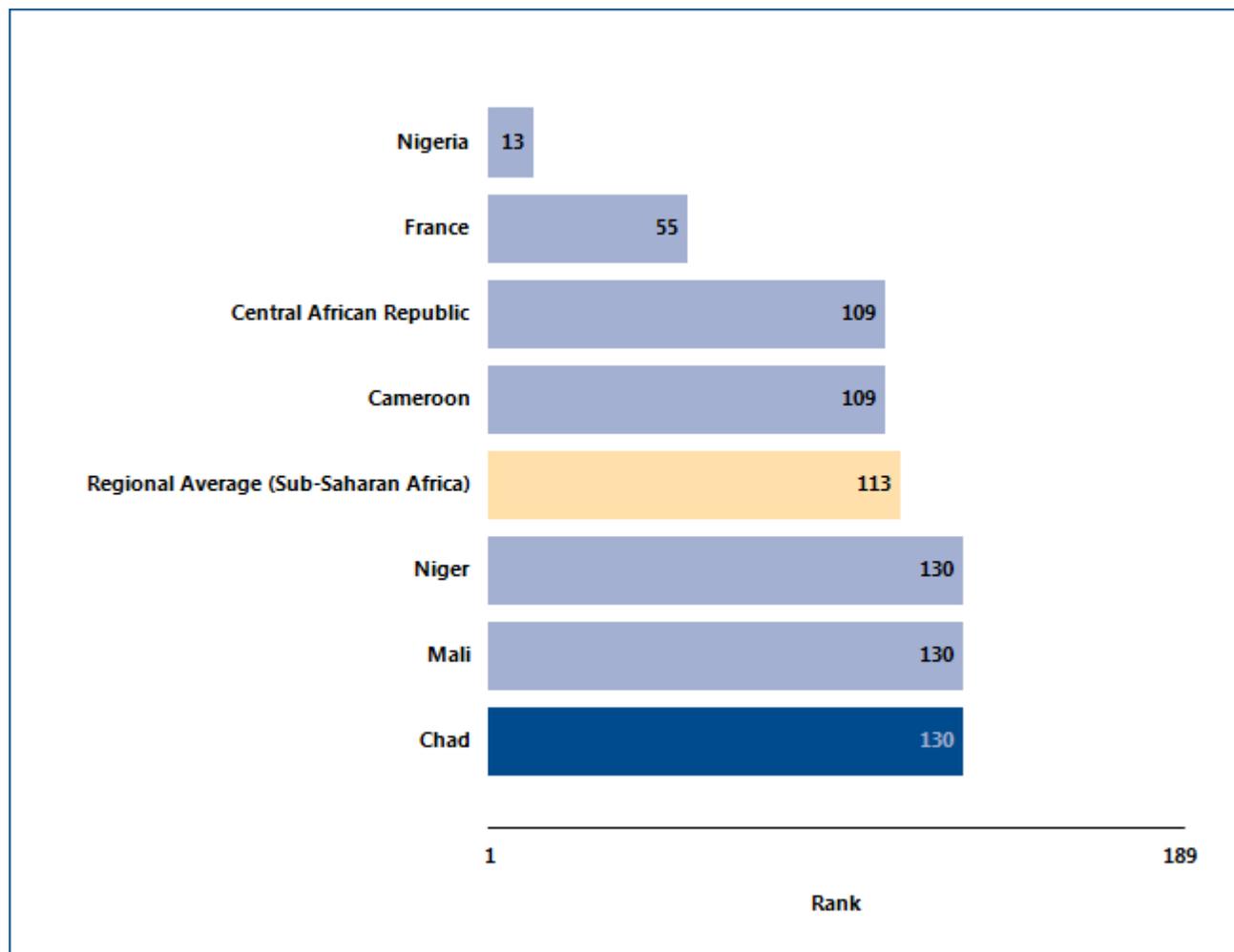
GETTING CREDIT

Where does the economy stand today?

How well do the credit information system and collateral and bankruptcy laws in Chad facilitate access to credit? The economy has a score of 1 on the depth of credit information index and a score of 6 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, Chad stands at 130 in the ranking of 189 economies on the ease of getting credit (figure 6.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how well regulations and institutions in Chad support lending and borrowing.

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



Source: Doing Business database.

GETTING CREDIT

What are the changes over time?

While the most recent *Doing Business* data reflect how well the credit information system and collateral and bankruptcy laws in Chad 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 Chad over time
By *Doing Business* report year

Indicator	DB2005	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012	DB2013	DB2014
Rank	..	..	..	..	..	..	..	..	126	130
Strength of legal rights index (0-10)	3	3	3	3	3	3	3	6	6	6
Depth of credit information index (0-6)	0	1	1	1	1	1	1	1	1	1
Public registry coverage (% of adults)	0.0	0.2	0.2	0.2	0.6	0.2	0.8	0.5	0.5	0.8
Private bureau coverage (% of adults)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

Source: *Doing Business* database.

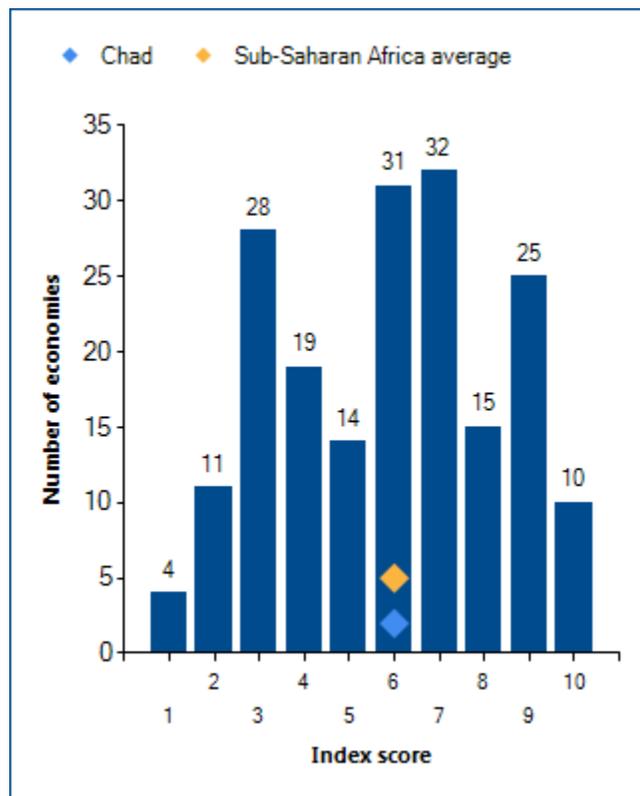
GETTING CREDIT

One way to put an economy's score on the getting credit indicators into context is to see where the economy stands in the distribution of scores across economies. Figure 6.2 highlights the score on the strength of legal rights index for Chad in 2013 and

shows the number of economies with this score in 2013 as well as the regional average score. Figure 6.3 shows the same thing for the depth of credit information index.

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

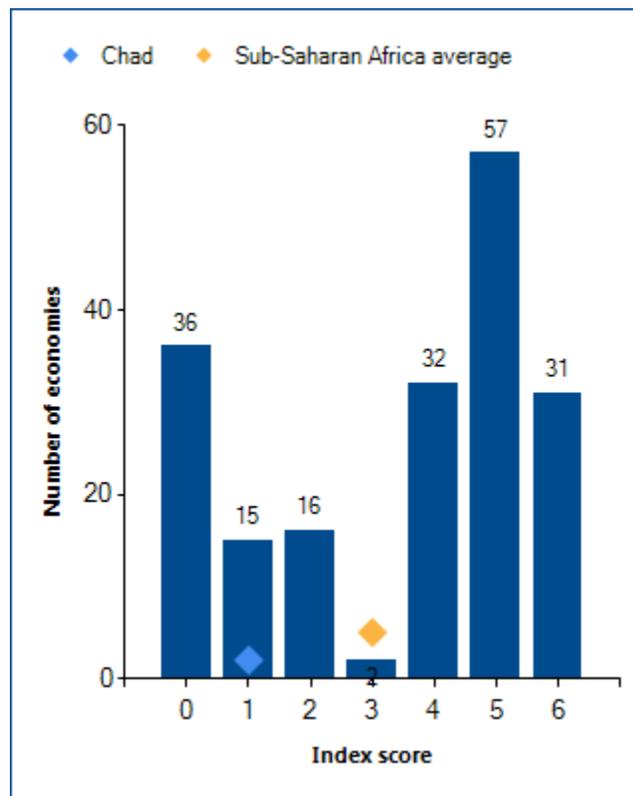
Number of economies with each score on strength of legal rights index (0–10), 2013



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

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

Number of economies with each score on depth of credit information index (0–6), 2013



Note: Higher scores indicate the availability of more credit information, from either a credit registry or a credit bureau, to facilitate lending decisions. Regional averages for the depth of credit information index exclude economies with no credit registry or credit bureau.
Source: Doing Business database.

GETTING CREDIT

When economies strengthen the legal rights of lenders and borrowers under collateral and bankruptcy laws, and increase the scope, coverage and accessibility of credit information, they can increase entrepreneurs' access to credit. What credit reforms has *Doing Business* recorded in Chad (table 6.2)?

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

DB year	Reform
DB2009	The regional public credit registry of the Central Bank of the Central African Monetary Union made information accessible on-line for banks. The on-line system simplifies the work of banks in declaring and retrieving information from the public registry and allowed coverage of the population with a credit history to grow significantly in Cameroon, Congo Rep., Chad and Gabon.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	Access to credit in Chad was improved through amendments to the OHADA Uniform Act on Secured Transactions that broaden the range of assets that can be used as collateral (including future assets), extend the security interest to the proceeds of the original asset and introduce the possibility of out-of-court enforcement.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

GETTING CREDIT

What are the details?

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

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

Summary of scoring for the getting credit indicators in Chad

Indicator	Chad	Sub-Saharan Africa average	OECD high income average
Strength of legal rights index (0-10)	6	6	7
Depth of credit information index (0-6)	1	3	5
Public registry coverage (% of adults)	0.8	7.8	42.9
Private bureau coverage (% of adults)	0.0	25.2	73.9

Note: In cases where an economy's regional classification is "OECD high income," regional averages above are only displayed once. Regional averages for the depth of credit information index exclude economies with no credit registry or credit bureau. Regional averages for the credit registry coverage exclude economies with no credit registry. Regional averages for the credit bureau coverage exclude economies with no credit bureau.

Strength of legal rights index (0-10)	Index score: 6
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?	No

Strength of legal rights index (0–10)	Index score: 6
Are secured creditors paid first (i.e. before tax claims and employee claims) when a debtor defaults outside an insolvency procedure?	No
Are secured creditors paid first (i.e. before tax claims and employee claims) when a business is liquidated?	No
Are secured creditors either not subject to an automatic stay on enforcement when a debtor enters a court-supervised reorganization procedure, or does the law provide secured creditors with grounds for relief from an automatic stay or/and sets a time limit to it?	No
Does the law allow parties to agree in a collateral agreement that the lender may enforce its security right out of court, at the time a security interest is created?	Yes

Depth of credit information index (0–6)	Credit bureau	Credit registry	Index score: 1
Are data on both firms and individuals distributed?	No	Yes	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?	No	No	0
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?	No	No	0
Is it guaranteed by law that borrowers can inspect their data in the largest credit registry?	No	No	0

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

Coverage	Credit bureau (% of adults)	Credit registry (% of adults)
Number of firms	0	5,740
Number of individuals	0	42,756

Source: Doing Business database.

PROTECTING INVESTORS

Protecting investors matters for the ability of companies to raise the capital they need to grow, innovate, diversify and compete. If the laws do not protect minority shareholders, investors may be reluctant to provide funding to companies through the purchase of shares unless they become the controlling shareholders. Effective regulations define related-party transactions precisely, promote clear and efficient disclosure requirements, require shareholder participation in major decisions of the company and set detailed standards of accountability for company insiders.

What do the indicators cover?

Doing Business measures the strength of minority shareholder protections against directors' use of corporate assets for personal gain—or self-dealing. The indicators distinguish 3 dimensions of investor protections: transparency of related-party transactions (extent of disclosure index), liability for self-dealing (extent of director liability index) and minority shareholders' access to evidence before and during trial (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)

Approval process for related-party transactions

Disclosure requirements in case of related-party transactions

Extent of director liability index (0–10)

Ability of minority shareholders to file a direct or derivative lawsuit

Ability of minority shareholders to hold interested parties and members of the approving body liable for prejudicial related-party transactions

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

Ease of shareholder suits index (0–10)

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

Documents and information available during trial

Strength of investor protection index (0–10)

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

the company purchase used trucks from another company he owns.

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

PROTECTING INVESTORS

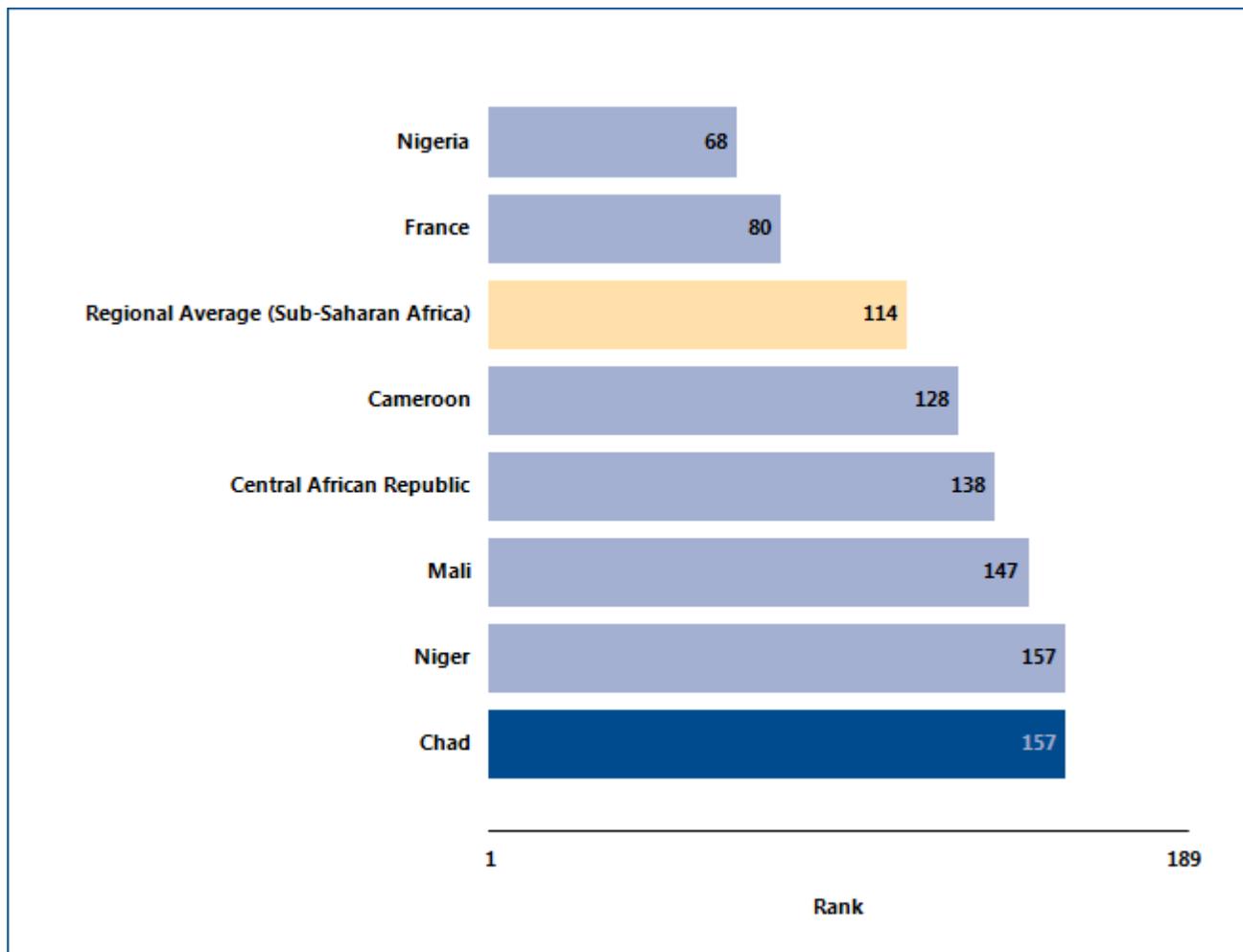
Where does the economy stand today?

How strong are investor protections against self-dealing in Chad? The economy has a score of 3.3 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, Chad stands at 157 in the ranking of 189 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 Chad and comparator economies rank on the strength of investor protection index



Source: Doing Business database.

PROTECTING INVESTORS

What are the changes over time?

While the most recent *Doing Business* data reflect how well regulations in Chad 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 Chad over time
By *Doing Business* report year

Indicator	DB2006	DB2007	DB2008	DB2009	DB2010	DB2011	DB2012	DB2013	DB2014
Rank	..	..	..	..	..	..	..	156	157
Extent of disclosure index (0-10)	6	6	6	6	6	6	6	6	6
Extent of director liability index (0-10)	1	1	1	1	1	1	1	1	1
Ease of shareholder suits index (0-10)	3	3	3	3	3	3	3	3	3
Strength of investor protection index (0-10)	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3

Note: n.a. = not applicable (the economy was not included in *Doing Business* for that year). DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

Source: *Doing Business* database.

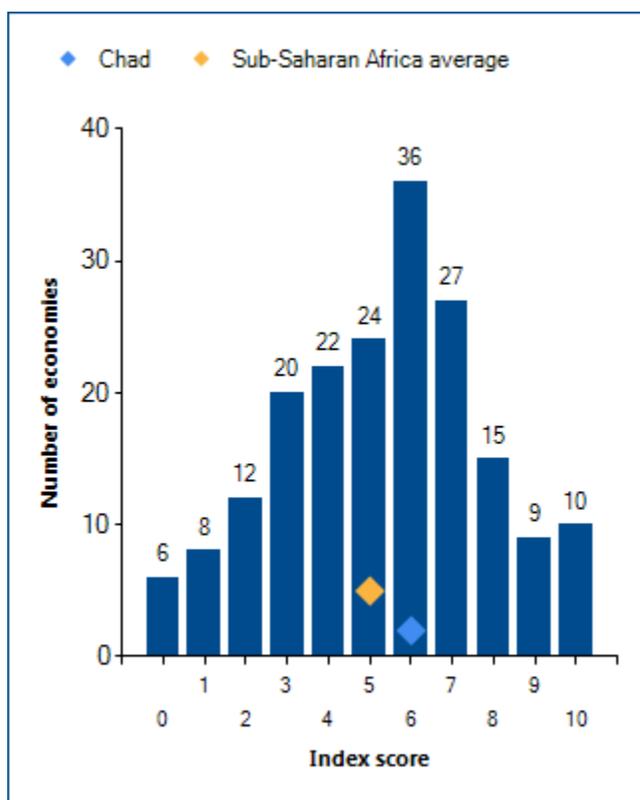
PROTECTING INVESTORS

One way to put an economy's scores on the protecting investors indicators into context is to see where the economy stands in the distribution of scores across economies. Figure 7.2 highlights the score on the extent of disclosure index for Chad in 2013 and shows

the number of economies with this score in 2013 as well as the regional average score. Figure 7.3 applies to the extent of director liability index, and figure 7.4 to the ease of shareholder suits index.

Figure 7.2 How strong are disclosure requirements?

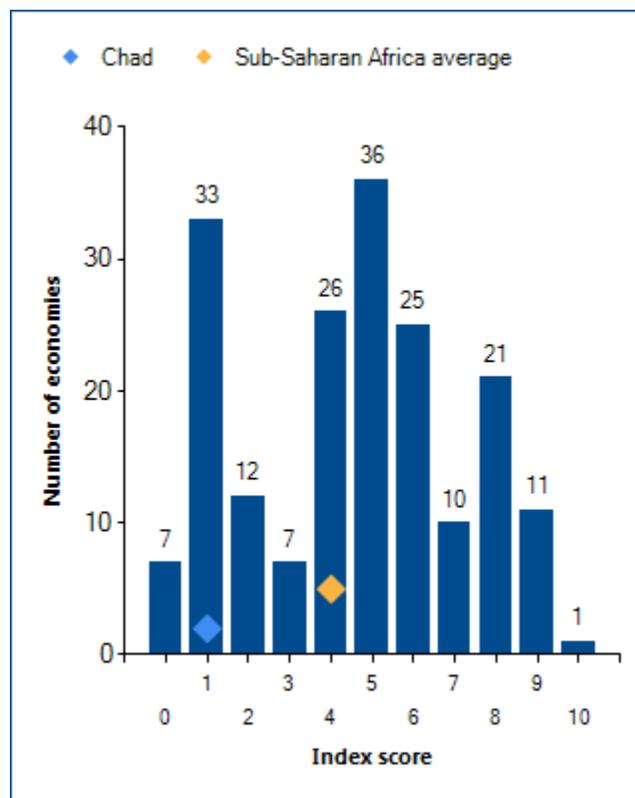
Number of economies with each score on the extent of disclosure index (0–10), 2013



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

Figure 7.3 How strong is the liability regime for directors?

Number of economies with each score on the extent of director liability index (0–10), 2013

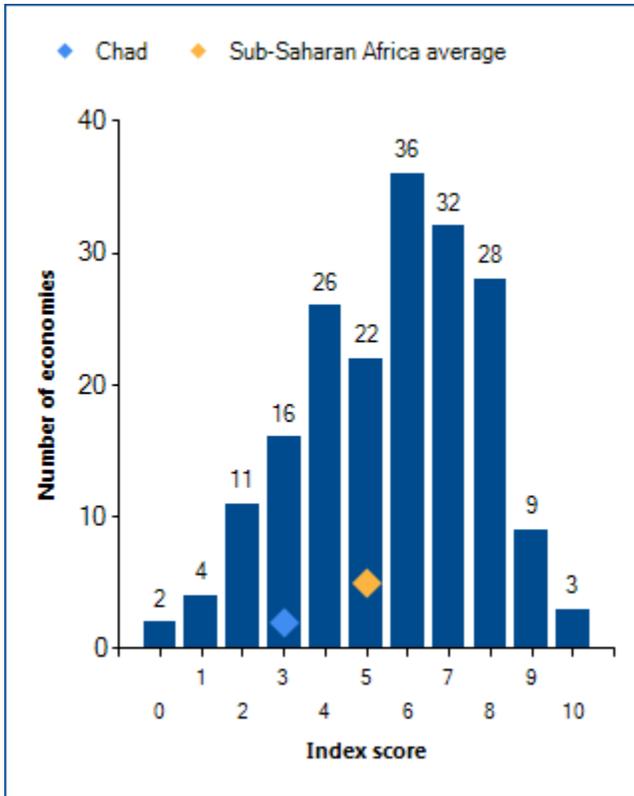


Note: Higher scores indicate greater liability of directors.
Source: Doing Business database.

PROTECTING INVESTORS

Figure 7.4 How easy is accessing internal corporate documents?

Number of economies with each score on the ease of shareholder suits index (0–10), 2013



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

Source: *Doing Business* database.

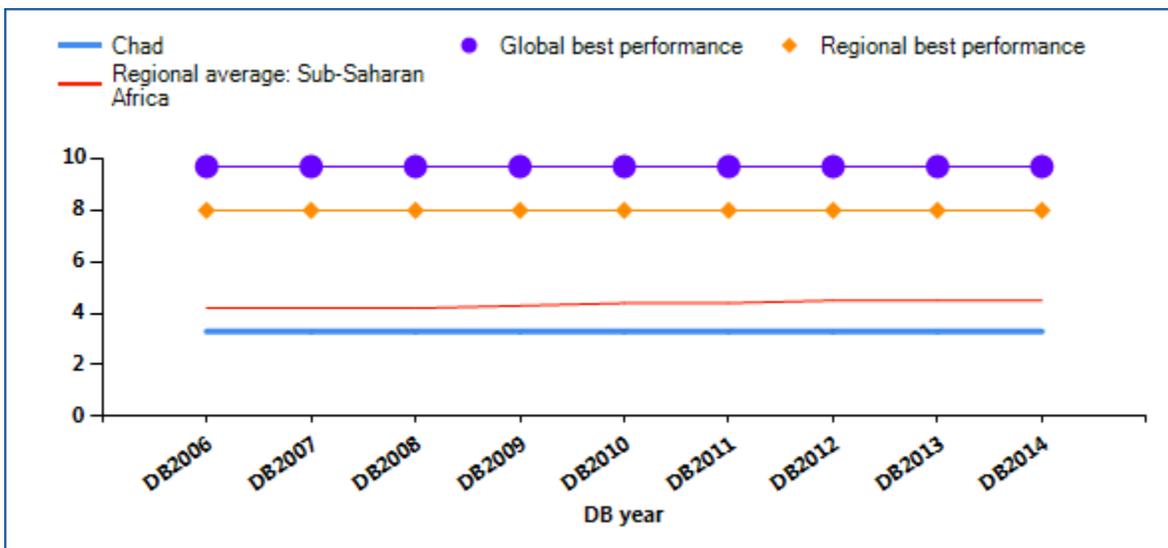
PROTECTING INVESTORS

The scores recorded over time for Chad on the strength of investor protection index may also be revealing (figure 7.5). Equally interesting may be the

changes over time in the regional average score on this index.

Figure 7.5 Have investor protections become stronger over time?

Strength of investor protection index (0–10)



Note: The higher the score, the stronger the protections.
Source: Doing Business database.

PROTECTING INVESTORS

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

reasonable time. As a result, reforms to strengthen investor protections may move ahead on different fronts—such as through new or amended company laws, securities regulations or civil procedure rules. What investor protection reforms has *Doing Business* recorded in Chad (table 7.2)?

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

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

PROTECTING INVESTORS

What are the details?

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

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

Summary of scoring for the protecting investors indicators in Chad

Indicator	Chad	Sub-Saharan Africa average	OECD high income average
Extent of disclosure index (0-10)	6	5	7
Extent of director liability index (0-10)	1	4	5
Ease of shareholder suits index (0-10)	3	5	7
Strength of investor protection index (0-10)	3.3	4.5	6.2

Note: In cases where an economy's regional classification is "OECD high income," regional averages above are only displayed once.

	Score	Score description
Extent of disclosure index (0-10)	6	
What corporate body provides legally sufficient approval for the transaction?	3	Both board of directors and shareholders meeting and Mr. James is not allowed to vote
Whether disclosure of the conflict of interest by Mr. James to the board of directors is required?	1	Existence of a conflict without any specifics
Whether immediate disclosure of the transaction to the public and/or shareholders is required?	0	No disclosure obligation
Whether disclosure of the transaction in published periodic filings (annual reports) is required?	2	Disclosure on the transaction and Mr. James' conflict of interest
Whether an external body must review the terms of the transaction before it takes place?	0	No
Extent of director liability index (0-10)	1	
Whether shareholders can sue directly or derivatively for the damage that the Buyer-Seller transaction causes to the company?	1	Yes
Whether shareholders can hold Mr. James liable for the damage that the Buyer-Seller transaction causes to the company?	0	Not liable
Whether shareholders can hold members of the approving body liable for the damage that the Buyer-Seller transaction causes to the company?	0	Not liable

	Score	Score description
Whether a court can void the transaction upon a successful claim by a shareholder plaintiff?	0	Not possible or only in case of Seller's fraud or bad faith
Whether Mr. James pays damages for the harm caused to the company upon a successful claim by the shareholder plaintiff?	0	No
Whether Mr. James repays profits made from the transaction upon a successful claim by the shareholder plaintiff?	0	No
Whether fines and imprisonment can be applied against Mr. James?	0	No
Ease of shareholder suits index (0-10)	3	
Whether shareholders owning 10% or less of Buyer's shares can inspect transaction documents before filing suit?	0	No
Whether shareholders owning 10% or less of Buyer's shares can request an inspector to investigate the transaction?	0	No
Whether the plaintiff can obtain any documents from the defendant and witnesses during trial?	3	Any information that is relevant to the subject matter of the claim
Whether the plaintiff can request categories of documents from the defendant without identifying specific ones?	0	No
Whether the plaintiff can directly question the defendant and witnesses during trial?	0	No
Whether the level of proof required for civil suits is lower than that of criminal cases?	0	No
Strength of investor protection index (0-10)	3.3	

Source: *Doing Business* database.

PAYING TAXES

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

What do the indicators cover?

Using a case scenario, *Doing Business* measures the taxes and mandatory contributions that a medium-size company must pay in a given year as well as the administrative burden of paying taxes and contributions. This case scenario uses a set of financial statements and assumptions about transactions made over the year. Information is also compiled on the frequency of filing and payments as well as time taken to comply with tax laws. The ranking on the ease of paying taxes is the simple average of the percentile rankings on its component indicators: number of annual payments, time and total tax rate, with a threshold being applied to the total tax rate.¹ 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, 2011.
- 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 2012 (number per year adjusted for electronic and joint filing and payment)

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

Method and frequency of filing and payment

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

Collecting information and computing the tax payable

Completing tax return forms, filing with proper agencies

Arranging payment or withholding

Preparing separate tax accounting books, if required

Total tax rate (% of profit before all taxes)

Profit or corporate income tax

Social contributions and labor taxes paid by the employer

Property and property transfer taxes

Dividend, capital gains and financial transactions taxes

Waste collection, vehicle, road and other taxes

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

¹ The threshold is defined as the highest total tax rate among the top 15% of economies in the ranking on the total tax rate. It is calculated and adjusted on a yearly basis. The threshold is not based on any economic theory of an "optimal tax rate" that minimizes distortions or maximizes efficiency in the tax system of an economy overall. Instead, it is mainly empirical in nature, set at the lower end of the distribution of tax rates levied on medium-size enterprises in the manufacturing sector as observed through the paying taxes indicators. This reduces the bias in the indicators toward economies that do not need to levy significant taxes on companies like the *Doing Business* standardized case study company because they raise public revenue in other ways—for example, through taxes on foreign companies, through taxes on sectors other than manufacturing or from natural resources (all of which are outside the scope of the methodology). This year's threshold is 25.5%.

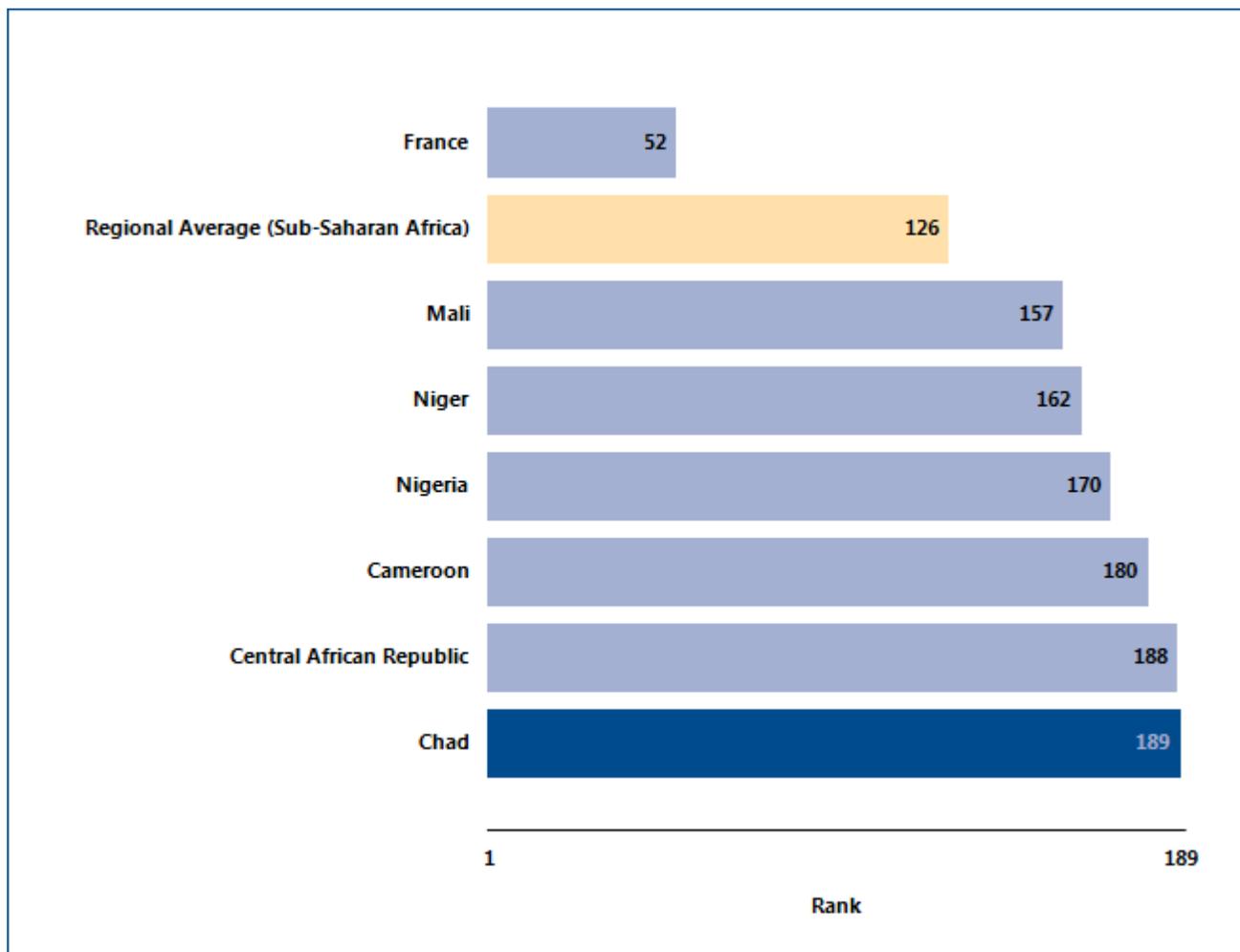
PAYING TAXES

Where does the economy stand today?

What is the administrative burden of complying with taxes in Chad—and how much do firms pay in taxes? On average, firms make 54 tax payments a year, spend 732 hours a year filing, preparing and paying taxes and pay total taxes amounting to 73.8% of profit (see the summary at the end of this chapter for details).

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

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



Source: Doing Business database.

PAYING TAXES

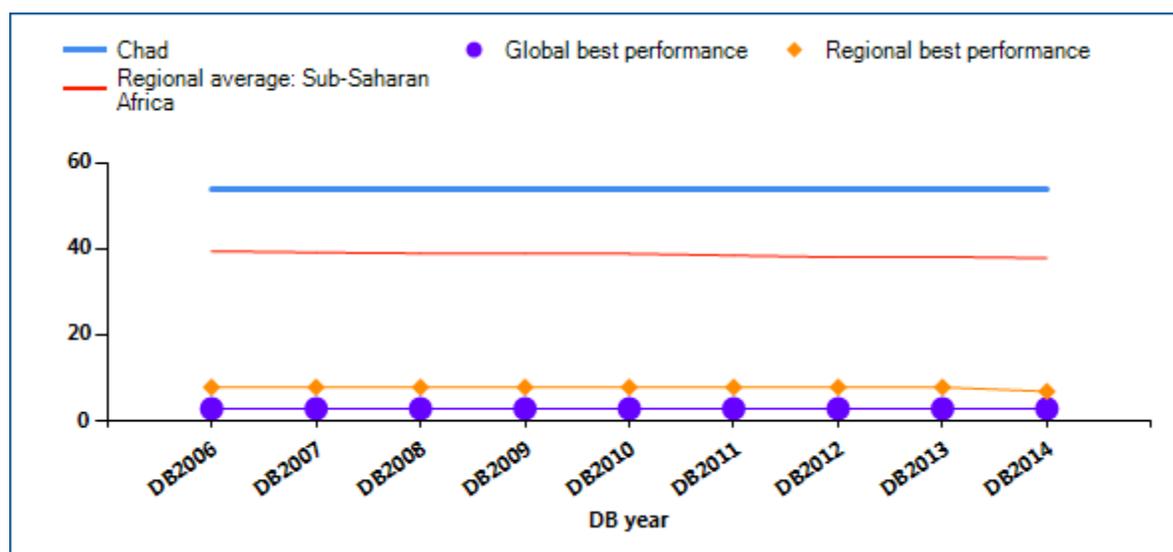
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the number of payments or the time required to prepare and file taxes (figure 8.2) help

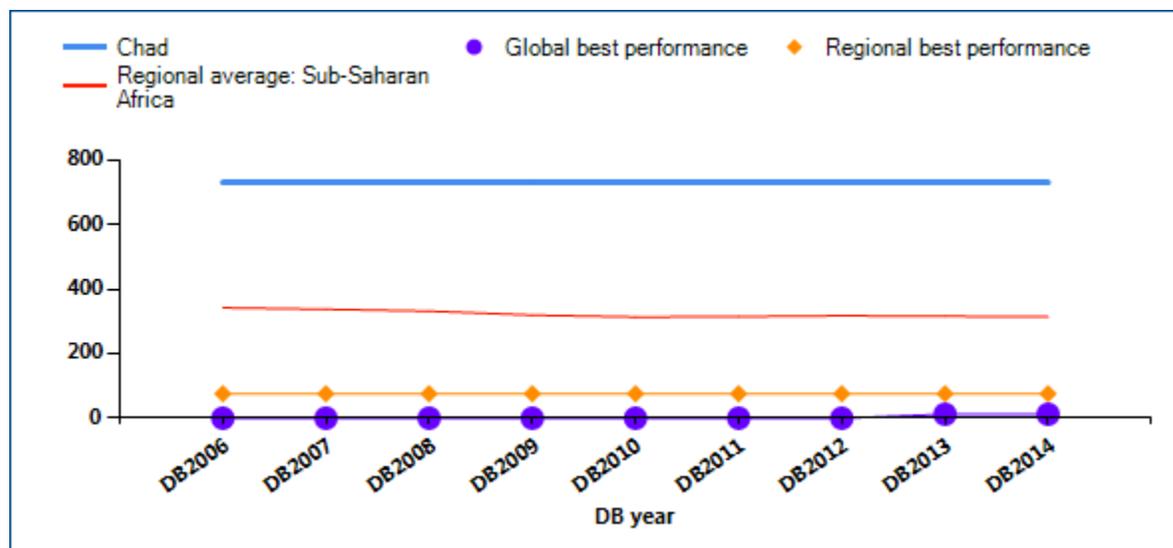
show what is possible in easing the administrative burden of tax compliance. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 8.2 Has paying taxes become easier over time?

Payments (number per year)

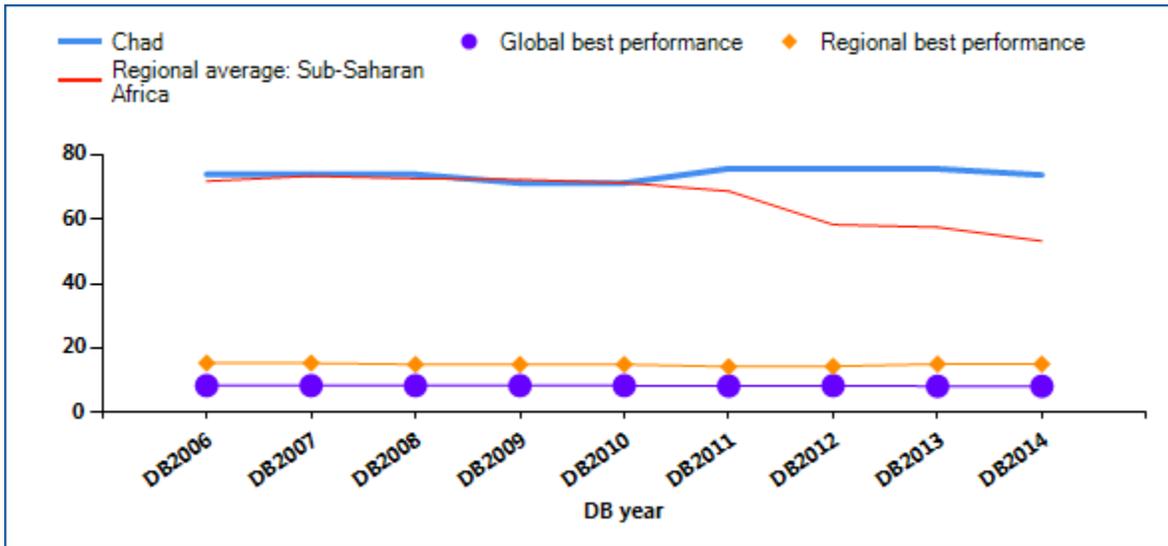


Time (hours per year)



PAYING TAXES

Total tax rate (% of profit)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. DB2013 rankings reflect changes to the methodology. For all economies with a total tax rate below the threshold of 25.5% applied in DB2014, the total tax rate is set at 25.5% for the purpose of calculating the ranking on the ease of paying taxes.

Source: *Doing Business* database.

PAYING TAXES

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

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

Table 8.1 How has Chad made paying taxes easier—or not?
By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	Chad increased taxes on business through changes to its social security contribution rates.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

PAYING TAXES

What are the details?

The indicators reported here for Chad 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.

LOCATION OF STANDARDIZED COMPANY

City: N'Djamena

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 Chad

Indicator	Chad	Sub-Saharan Africa average	OECD high income average
Payments (number per year)	54	38	12
Time (hours per year)	732	314	175
Profit tax (%)	31.3	18.4	16.1
Labor tax and contributions (%)	28.4	13.7	23.1
Other taxes (%)	14.0	21.3	2.0
Total tax rate (% profit)	73.8	53.3	41.3

Note: In cases where an economy's regional classification is "OECD high income," regional averages above are only displayed once.

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	12		300	40% on profits or 1.5% on turnover (whichever is higher)	taxable profit	31.3	
Social security contributions	12		216	16.5%	gross salaries	18.6	

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
Property tax	1		0	10%	rental value of assets	10	
Payroll tax	12		0	7.5%	gross salaries	8.5	
Business license	1		0	0.1%	turnover	1.8	
Vehicle tax	1		0		fixed fee depending on type of vehicle	1.7	
Apprenticeship tax	0	paid jointly	0	1.2%	gross salaries	1.4	
Other license contributions	0	paid jointly	0	17% + fixed fee	business license	0.3	
Tax on rental value	1		0	10%	rental value of immovable assets	0.3	
Stamp duty	1		0	XAF 2,000 - 5,000	per page	0	small amount
Fuel tax	1		0		included in the price of fuel	0	small amount
Value added tax (VAT)	12		216	18%	value added	0	not included
Totals	54		732			73.8	

Source: Doing Business database.

TRADING ACROSS BORDERS

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

What do the indicators cover?

Doing Business measures the time and cost (excluding tariffs and the time and cost for sea transport) associated with exporting and importing a standard shipment of goods by sea transport, and the number of documents necessary to complete the transaction. The indicators cover 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

WHAT THE TRADING ACROSS BORDERS

INDICATORS MEASURE

Documents required to export and import (number)

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

Time required to export and import (days)

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

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

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

military items.

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

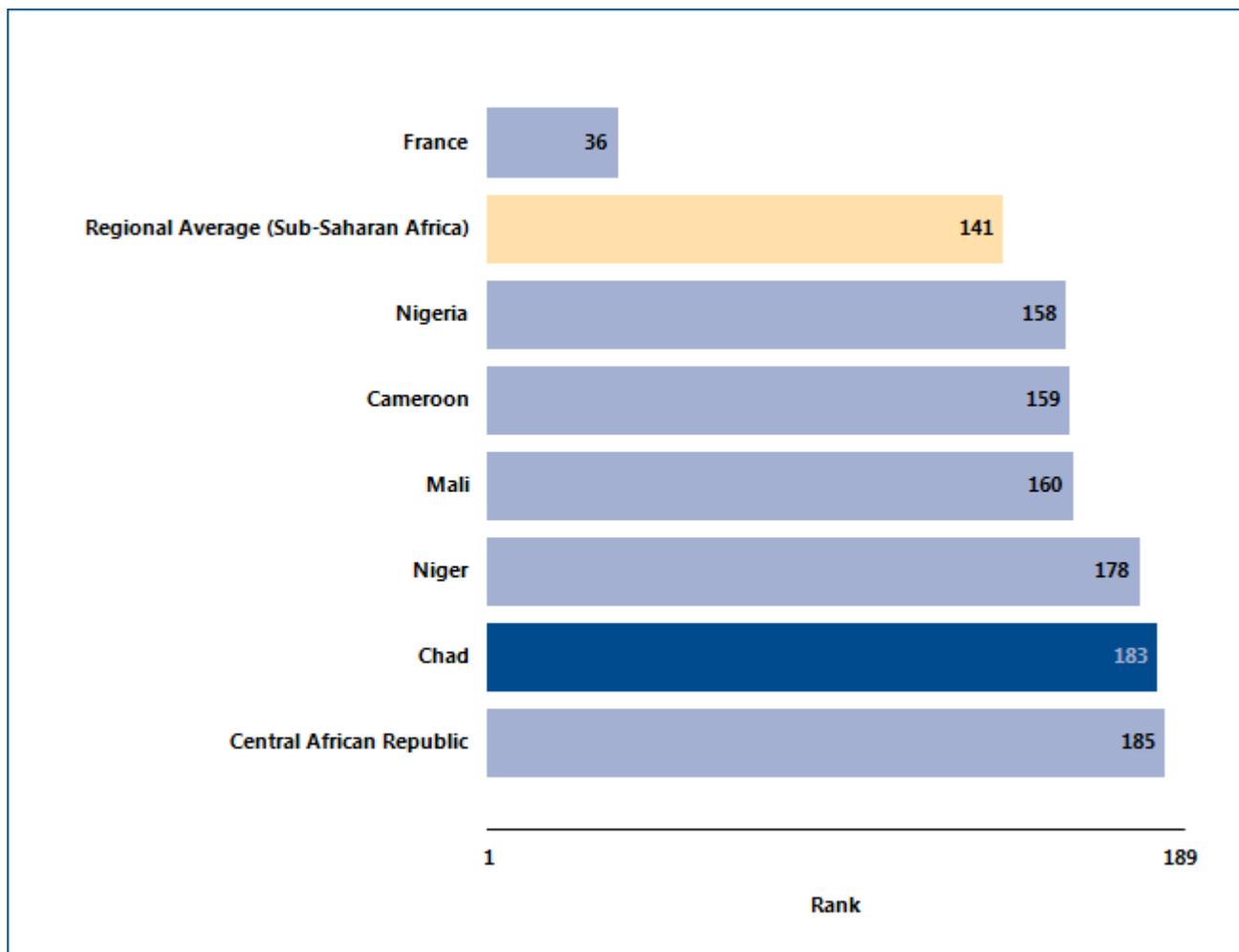
TRADING ACROSS BORDERS

Where does the economy stand today?

What does it take to export or import in Chad? According to data collected by *Doing Business*, exporting a standard container of goods requires 8 documents, takes 73 days and costs \$6615. Importing the same container of goods requires 11 documents, takes 98 days and costs \$9025 (see the summary of procedures and documents at the end of this chapter for details).

Globally, Chad stands at 183 in the ranking of 189 economies on the ease of trading across borders (figure 9.1). The rankings for comparator economies and the regional average ranking provide other useful information for assessing how easy it is for a business in Chad to export and import goods.

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



Source: *Doing Business* database.

TRADING ACROSS BORDERS

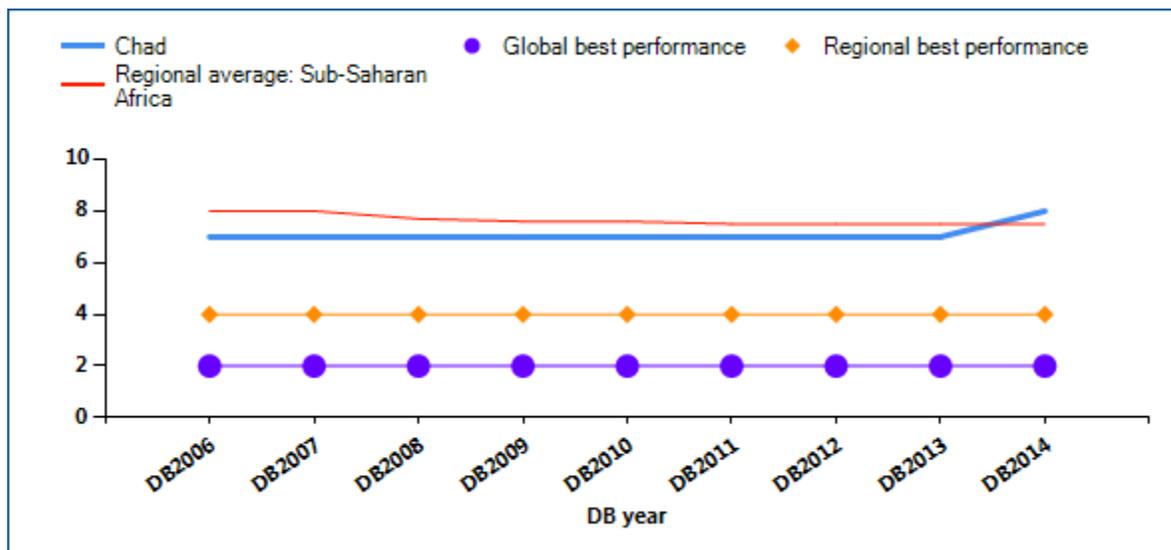
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the documents, time or cost required to export or import (figure 9.2) help show what is

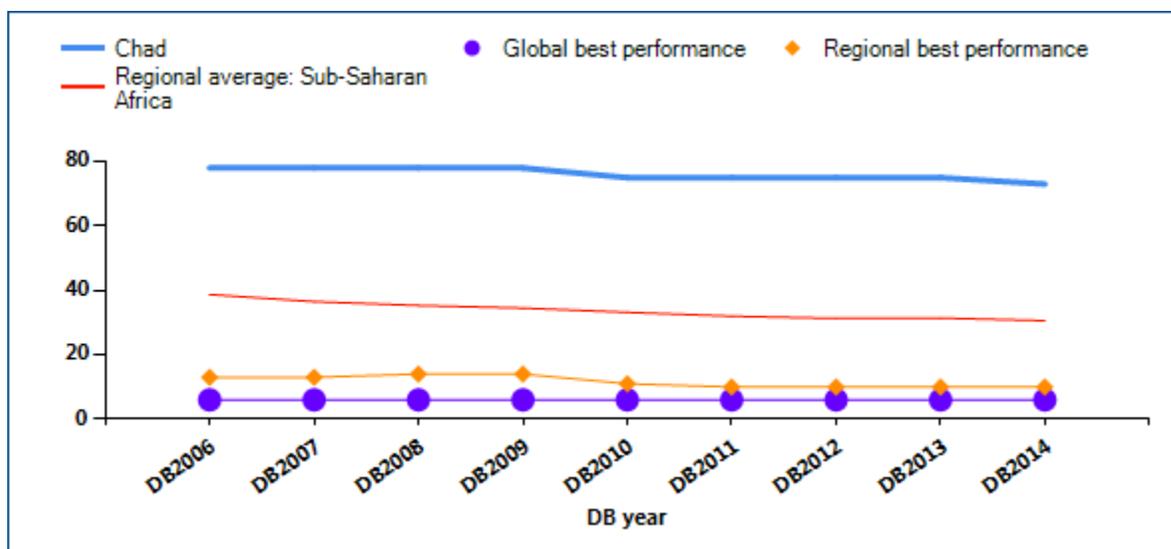
possible in making it easier to trade across borders. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 9.2 Has trading across borders become easier over time?

Documents to export (number)

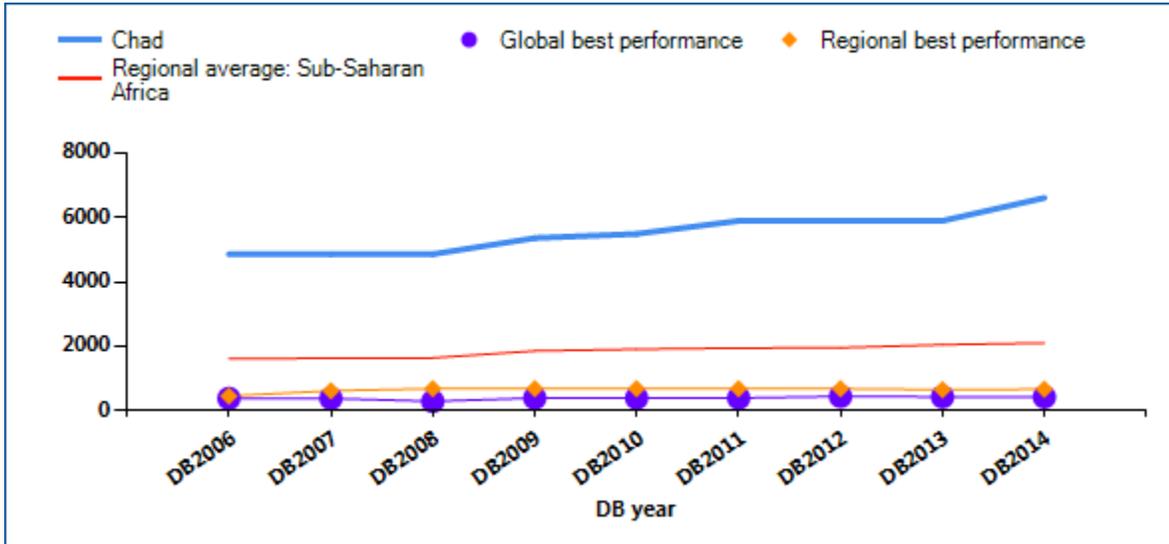


Time to export (days)

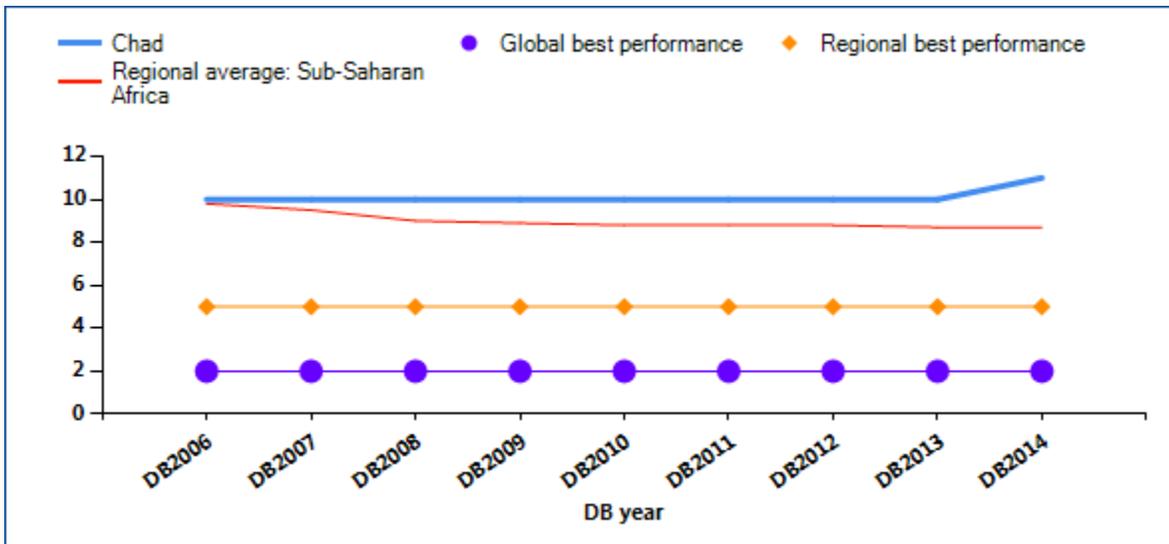


TRADING ACROSS BORDERS

Cost to export (US\$ per container)

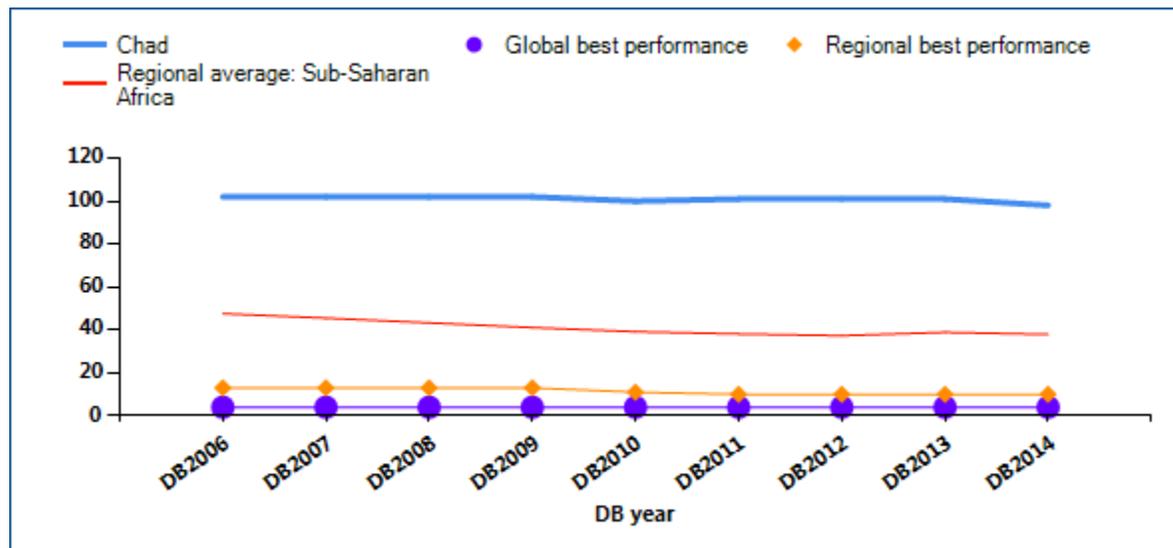


Documents to import (number)

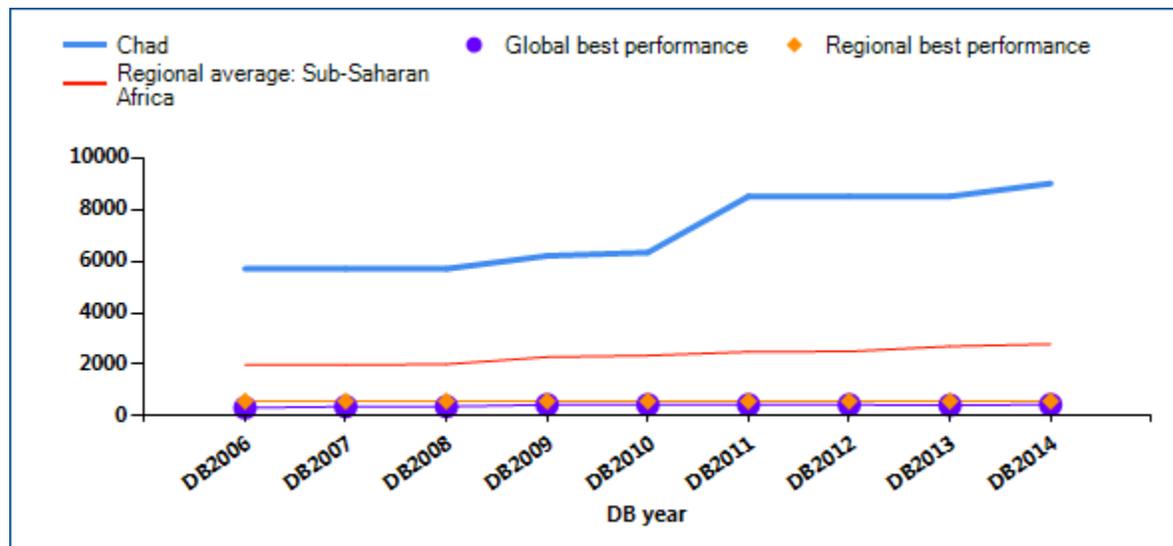


TRADING ACROSS BORDERS

Time to import (days)



Cost to import (US\$ per container)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

Source: Doing Business database.

TRADING ACROSS BORDERS

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

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

Table 9.1 How has Chad made trading across borders easier—or not?
By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	Chad made trading across borders more difficult by introducing a new export and import document.

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

Source: *Doing Business* database.

TRADING ACROSS BORDERS

What are the details?

The indicators reported here for Chad 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.

LOCATION OF STANDARDIZED COMPANY

City: N'Djamena

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 Chad

Indicator	Chad	Sub-Saharan Africa average	OECD high income average
Documents to export (number)	8	8	4
Time to export (days)	73	31	11
Cost to export (US\$ per container)	6,615	2,108	1,070
Documents to import (number)	11	9	4
Time to import (days)	98	38	10
Cost to import (US\$ per container)	9,025	2,793	1,090

Note: In cases where an economy's regional classification is "OECD high income," regional averages above are only displayed once.

Procedures to export	Time (days)	Cost (US\$)
Documents preparation	39	880
Customs clearance and technical control	3	330
Ports and terminal handling	3	405
Inland transportation and handling	28	5,000
Totals	73	6,615

Procedures to import	Time (days)	Cost (US\$)
Documents preparation	47	1,500

Procedures to import	Time (days)	Cost (US\$)
Customs clearance and technical control	7	525
Ports and terminal handling	5	500
Inland transportation and handling	39	6,500
Totals	98	9,025

Documents to export
Bill of lading
Certificate of origin
Commercial invoice
Customs export declaration
Electronic cargo tracking note (ECTN) - Chad
Packing list
Terminal handling receipts
Transit document

Source: Doing Business database.

Documents to import
Bill of lading
Cargo release order
Certificate of origin
Commercial invoice
Customs import declaration
Electronic cargo tracking note (ECTN) - Chad
Form D15 (Transit bond document)
Import license
Packing list
Pre-shipment inspection clean report of findings
Terminal handling receipts

ENFORCING CONTRACTS

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

What do the indicators cover?

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

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

- The seller and buyer are located in the economy's largest business city.
- 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.
- 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.

WHAT THE ENFORCING CONTRACTS

INDICATORS MEASURE

Procedures to enforce a contract through the courts (number)

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

Time required to complete procedures (calendar days)

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

Cost required to complete procedures (% of claim)

- Average attorney fees
- Court costs
- Enforcement costs

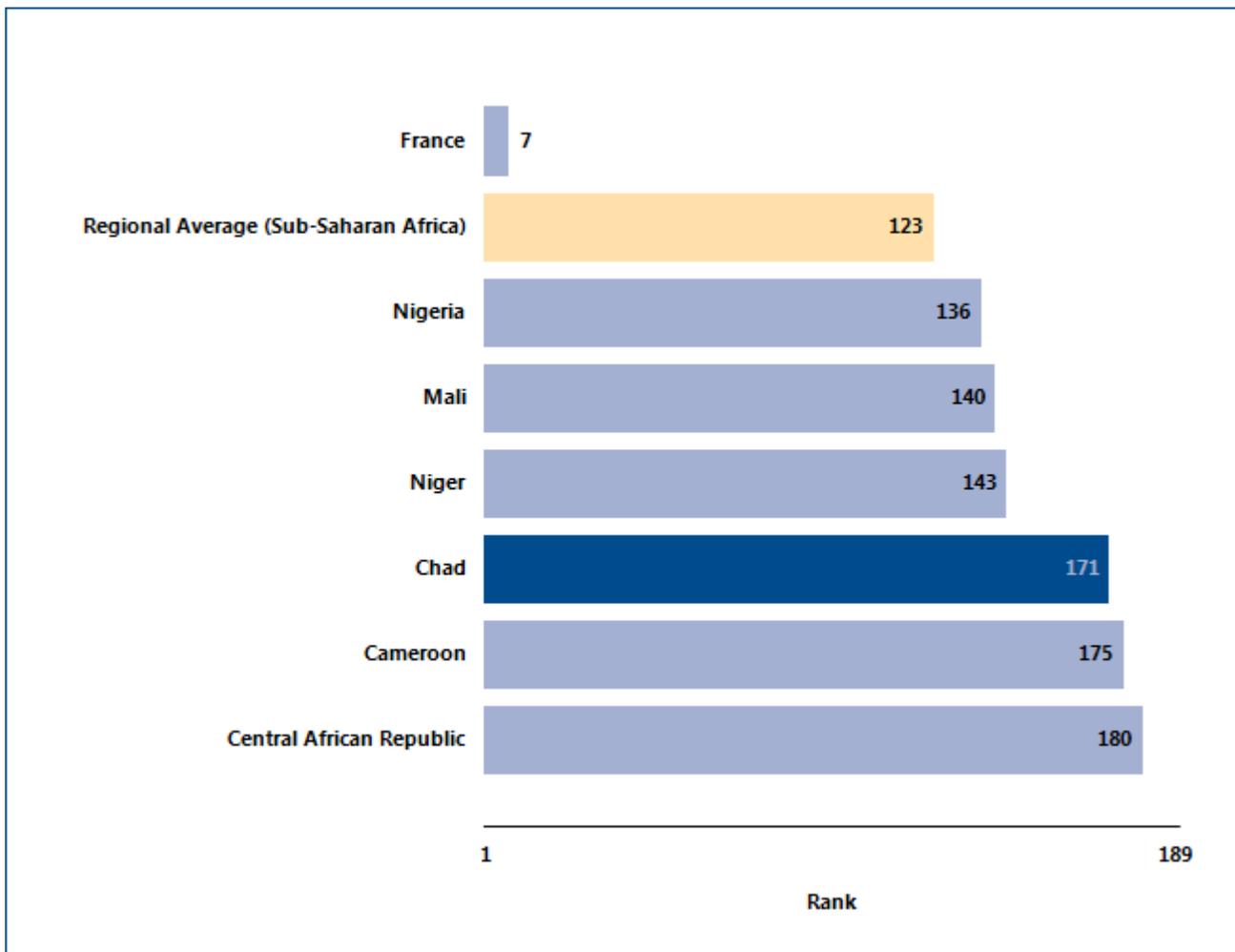
ENFORCING CONTRACTS

Where does the economy stand today?

How efficient is the process of resolving a commercial dispute through the courts in Chad? According to data collected by *Doing Business*, contract enforcement takes 743 days, costs 45.7% of the value of the claim and requires 41 procedures (see the summary at the end of this chapter for details).

Globally, Chad stands at 171 in the ranking of 189 economies on the ease of enforcing contracts (figure 10.1). The rankings for comparator economies and the regional average ranking provide other useful benchmarks for assessing the efficiency of contract enforcement in Chad.

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



Source: *Doing Business* database.

ENFORCING CONTRACTS

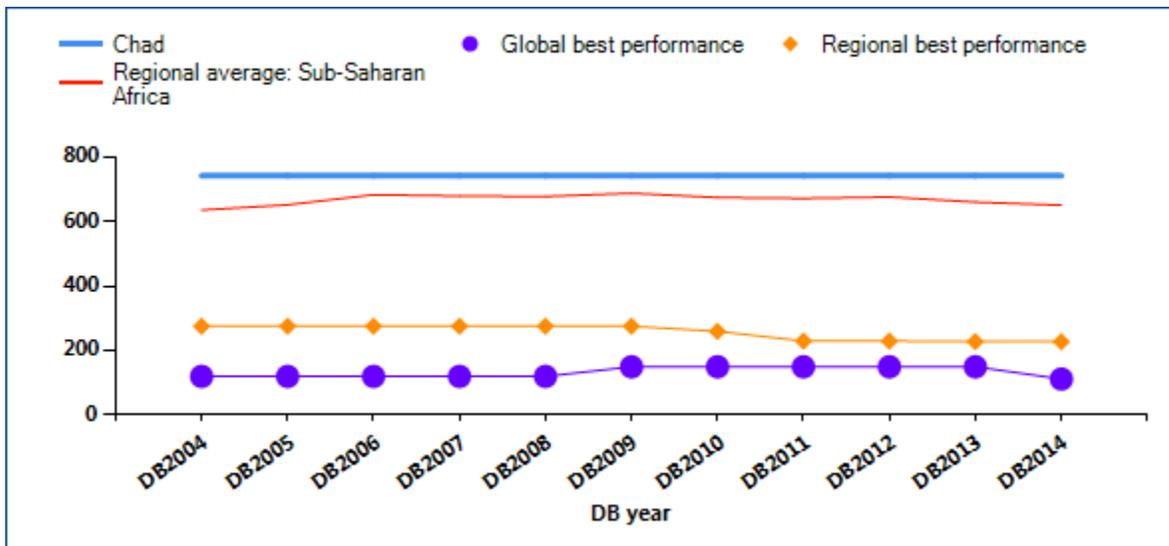
What are the changes over time?

The benchmarks provided by the economies that over time have had 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)

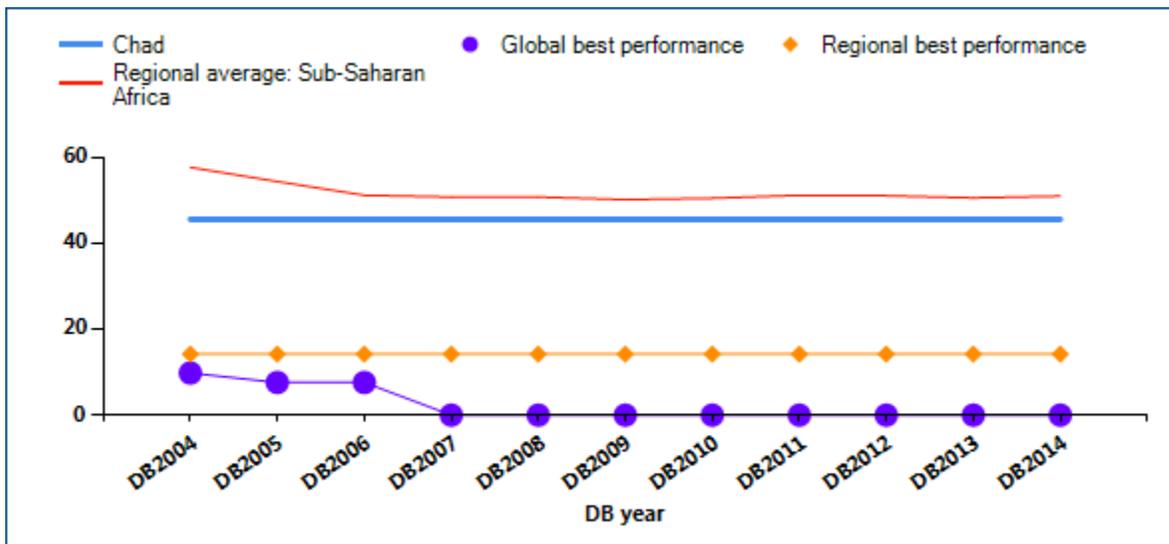
help show what is possible in improving the efficiency of contract enforcement. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 10.2 Has enforcing contracts become easier over time?

Time (days)

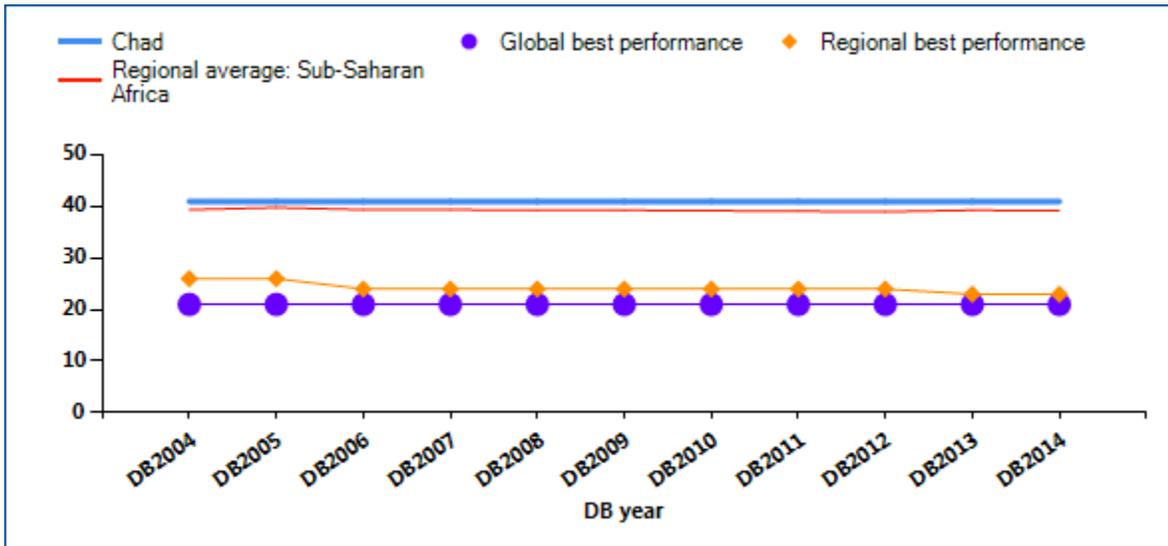


Cost (% of claim)



ENFORCING CONTRACTS

Procedures (number)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year.

Source: Doing Business database.

ENFORCING CONTRACTS

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

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

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

By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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

Source: *Doing Business* database.

ENFORCING CONTRACTS

What are the details?

The indicators reported here for Chad 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).

COURT NAME

City: N'Djamena

Claim Value LCU: 691042

Court Name: N'Djamena Commercial Court

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 Chad—and the time and cost

Indicator	Chad	Sub-Saharan Africa average	OECD high income average
Time (days)	743	652	529
Filing and service	35		
Trial and judgment	320		
Enforcement of judgment	388		
Cost (% of claim)	45.7	51.1	21.0
Attorney cost (% of claim)	23.5		
Court cost (% of claim)	13.8		
Enforcement Cost (% of claim)	8.4		
Procedures (number)	41	39	31
Number of procedures (without bonus points)	42		
Specialized commercial courts	-1		
Total number of procedures (including bonus points)	41		

Note: In cases where an economy's regional classification is "OECD high income," regional averages above are only displayed once.

ENFORCING CONTRACTS

No.	Procedure
	Filing and service:
1	Plaintiff requests payment: Plaintiff or his lawyer asks Defendant orally or in writing to comply with the contract.
2	Plaintiff's hiring of lawyer: Plaintiff hires a lawyer to represent him before the court.
*	Plaintiff's filing of summons and complaint: Plaintiff files his summons and complaint with the court, orally or in writing.
*	Plaintiff's payment of court fees: Plaintiff pays court duties, stamp duties, or any other type of court fee.
3	Registration of court case: The court administration registers the lawsuit or court case. This includes assigning a reference number to the lawsuit or court case.
*	Assignment of court case to a judge: The court case is assigned to a specific judge through a random procedure, automated system, ruling of an administrative judge, court officer, etc.
4	Court scrutiny of summons and complaint: A judge examines Plaintiff's summons and complaint for formal requirements.
*	Judge admits summons and complaint: After verifying the formal requirements, the judge decides to admit Plaintiff's summons and complaint.
*	Mailing of summons and complaint: Court or process server, including (private) bailiff, mails summons and complaint to Defendant.
5	First attempt at physical delivery: A first attempt to physically deliver summons and complaint to Defendant is successful in the majority of cases.
*	Proof of service: Plaintiff submits proof of service to court.
*	Application for pre-judgment attachment: Plaintiff submits an application in writing for the attachment of Defendant's property prior to judgment. (see assumption 5)
*	Decision on pre-judgment attachment: The judge decides whether to grant Plaintiff's request for pre-judgment attachment of Defendant's property and notifies Plaintiff and Defendant of the decision. This step may include requesting that Plaintiff submit guarantees or bonds to secure Defendant
6	Pre-judgment attachment.: Defendant's property is attached prior to judgment. Attachment is either physical or achieved by registering, marking, debiting or separating assets. (see assumption 5)
7	Custody of assets attached prior to judgment: Defendant's attached assets are put under enforcement officer's or (private) bailiff's care. (see assumption 5)
	Trial and judgment:
*	Defendant's filing of preliminary exemptions: Defendant presents preliminary exemptions to the court. Preliminary exemptions differ from answers on the merits of the claim. Examples of preliminary exemptions are statute of limitations, jurisdictions, etc.

No.	Procedure
*	Plaintiff's answer to preliminary exemptions: Plaintiff responds to the preliminary exemptions raised by Defendant.
8	Judge's resolution on preliminary exemptions: Judge decides on preliminary exemptions separately from the merits of the case.
9	Defendant's filing of defense or answer to Plaintiff's claim: Defendant files a written pleading which includes his defense or answer on the merits of the case. Defendant's written answer may or may not include witness statements, expert statements, the documents Defendant relies on as evidence and the legal authori
10	Deadline for Plaintiff to answer Defendant's defense or answer: Judge sets the deadline by which Plaintiff will be allowed to answer Defendant's defense or answer.
11	Plaintiff's written response to Defendant's defense or answer: Plaintiff responds to Defendant's defense or answer with a written pleading. Plaintiff's answer may or may not include a witness statements or expert (witness) statements.
12	Filing of pleadings: Plaintiff and Defendant file written pleadings and submissions with the court and transmit copies of the written pleadings or submissions to one another. The pleadings may or may not include witness statements or expert (witness) statements.
13	Adjournments: Court procedure is delayed because one or both parties request and obtain an adjournment to submit written pleadings.
*	Court appointment of independent expert: Judge appoints, either at the parties' request or at his own initiative, an independent expert to decide whether the quality of the goods Plaintiff delivered to Defendant is adequate. (see assumption 6-b of this case)
14	Notification of court-appointment of independent expert: The court notifies both parties that the court is appointing an independent expert. (see assumption 6-b of this case)
*	Delivery of expert report by court-appointed expert: The independent expert appointed by the court delivers his or her expert report to the court. (see assumption 6-b of this case)
*	Setting of date for mediation hearing: The judge sets a date for a mediation hearing, sometimes also called a 'pre-trial conference,' and notifies the parties of the hearing date.
15	Mediation hearing: The judge during this informal meeting with the parties encourages them to settle the case. The judge acts as mediator. If the case cannot be settled, the judge may draft a pre-trial conference report, after which the case may be allocated to another judge
16	Request for oral hearing or trial: Plaintiff applies for the date(s) for the oral hearing or trial.
*	Setting of date(s) for oral hearing or trial: The judge sets the date(s) for the oral hearing or trial.
*	List of (expert) witnesses: The parties file a list of (expert) witnesses with the court. (see assumption 6-a)
17	Summoning of (expert) witnesses: The court summons (expert) witnesses to appear in court for the oral hearing or trial. (see assumption 6-a)
18	Adjournments: Court proceedings are delayed because one or both parties request and obtain an adjournment to prepare for the oral hearing or trial.

No.	Procedure
19	Oral hearing (prevalent in civil law): The parties argue the merits of the case at an oral hearing before the judge. Witnesses and a court-appointed independent expert may be heard and questioned at the oral hearing.
20	Adjournments: Court proceedings are delayed because one or both parties request and obtain an adjournment during the oral hearing or trial, resulting in an additional or later trial or hearing date.
*	Request for closing of the evidence period: Plaintiff or Defendant requests the judge to close the evidence period.
21	Closing of the evidence period: The court makes the formal decision to close the evidence period.
22	Order for submission of final arguments: The judge sets the deadline for the submission of final factual and legal arguments.
*	Final arguments: The parties present their final factual and legal arguments to the court either by oral presentation or by a written submission.
23	Judgment date: The judge sets a date for delivery of the judgment.
24	Notification of judgment in court: The parties are notified of the judgment at a court hearing.
25	Writing of judgment: The judge produces a written copy of the judgment.
26	Registration of judgment: The court office registers the judgment after receiving a written copy of the judgment.
27	Court notification of availability of the written judgment: The court notifies the parties that the written judgment is available at the courthouse.
28	Plaintiff's receipt of a copy of written judgment: Plaintiff receives a copy of the written judgment.
29	Notification of Defendant of judgment: Plaintiff or court formally notifies the Defendant of the judgment. The appeal period starts to run the day the Defendant is formally notified of the judgment.
30	Appeal period: By law, Defendant has the opportunity to appeal the judgment during a period specified in the law. Defendant decides not to appeal. Judgment becomes final the day the appeal period ends.
31	Reimbursement by Defendant of Plaintiff's court fees: The judgment obliges Defendant to reimburse Plaintiff for the court fees Plaintiff has advanced, because Defendant has lost the case.
Enforcement of judgment:	
32	Plaintiff's approaching of court enforcement officer or (private) bailiff to enforce the judgment: To enforce the judgment, Plaintiff approaches a court enforcement officer such as a court bailiff or sheriff, or a private bailiff.
33	Plaintiff's advancement of enforcement fees: Plaintiff pays the fees related to the enforcement of the judgment.
34	Attachment of enforcement order to judgment: The judge attaches the enforcement order ('seal') to the judgment.
*	Delivery of enforcement order: The court's enforcement order is delivered to a court enforcement officer or a (private) bailiff.

No.	Procedure
35	Identification of Defendant's assets for attachment by court official or Defendant: Judge, a court enforcement officer, a (private) bailiff or the Defendant himself identifies Defendant's movable assets for attachment.
36	Attachment: Defendant's movable goods are attached (physically or by registering, marking or separating assets).
37	Report on execution of attachment: A court enforcement officer or private process server delivers a report on the attachment of Defendant's movable goods to the judge.
38	Call for public auction: The judge calls a public auction by, for example, advertising or publication in the newspapers.
39	Sale through public auction: The Defendant's movable property is sold at public auction.
40	Distribution of proceeds: The proceeds of the public auction are distributed to various creditors (including Plaintiff), according to the rules of priority.
41	Reimbursement of Plaintiff's enforcement fees: Defendant reimburses Plaintiff's enforcement fees which Plaintiff had advanced previously.
42	Payment: Court orders that the proceeds of the public auction or the direct sale be delivered to Plaintiff.

* Not counted in the total number of procedures.

Source: *Doing Business* database.

RESOLVING INSOLVENCY

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

What do the indicators cover?

Doing Business studies the time, cost and outcome of insolvency proceedings involving domestic 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.
- Has 201 employees, 1 main secured creditor and 50 unsecured creditors.

WHAT THE RESOLVING INSOLVENCY INDICATORS MEASURE

Time required to recover debt (years)

Measured in calendar years

Appeals and requests for extension are included

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

Measured as percentage of estate value

Court fees

Fees of insolvency administrators

Lawyers' fees

Assessors' and auctioneers' fees

Other related fees

Outcome

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

Recovery rate for creditors (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 a higher value as a going concern—and the efficient outcome is either reorganization or sale as a going concern, not piecemeal liquidation.

RESOLVING INSOLVENCY

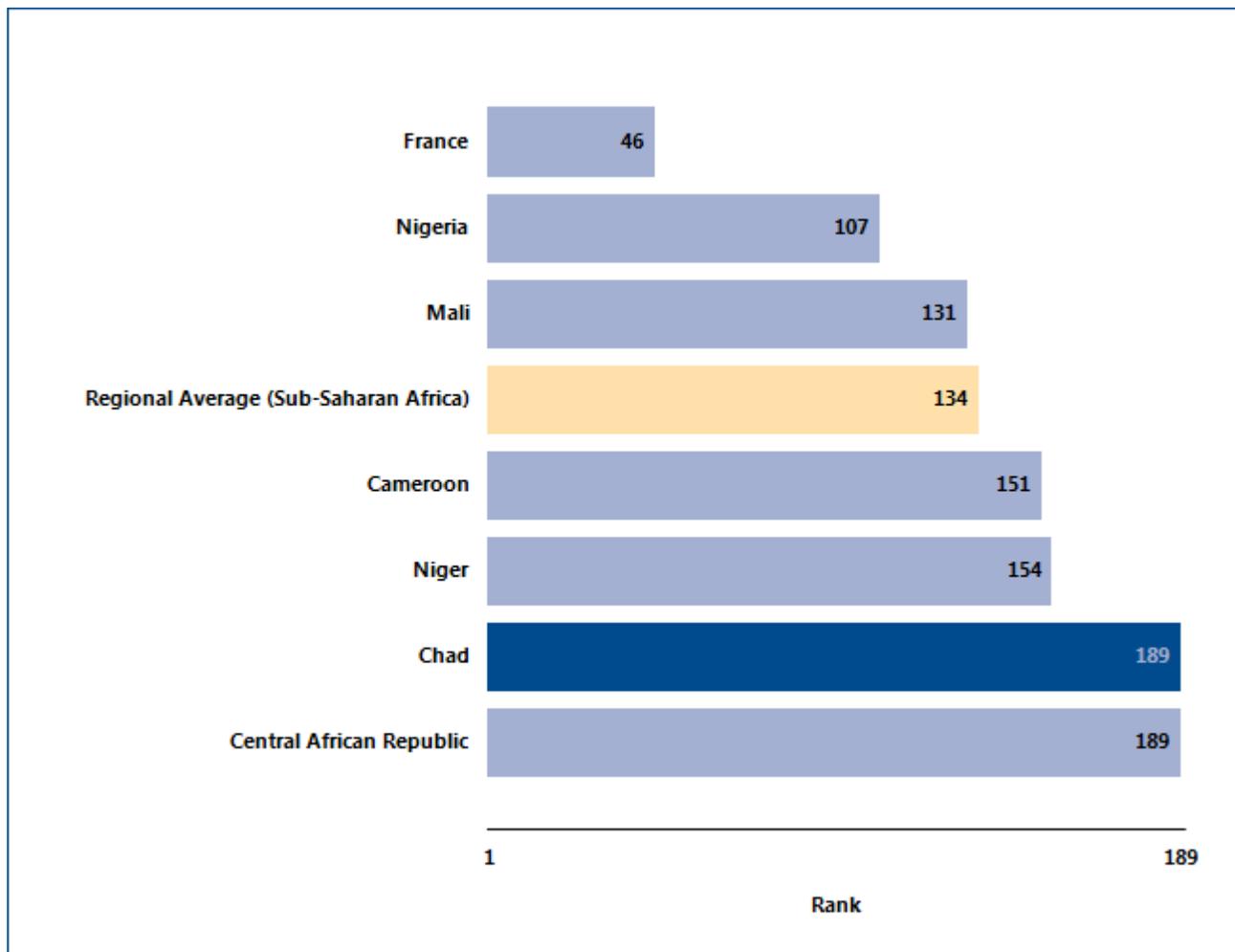
Where does the economy stand today?

Speed, low costs and continuation of viable businesses characterize the top-performing economies. How efficient are insolvency proceedings in Chad? According to data collected by *Doing Business*, resolving insolvency takes 4.0 years on average and costs 60% of the debtor’s estate, with the most likely outcome being that the company will be sold as

piecemeal sale. The average recovery rate is 0.0 cents on the dollar.

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

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



Source: *Doing Business* database.

RESOLVING INSOLVENCY

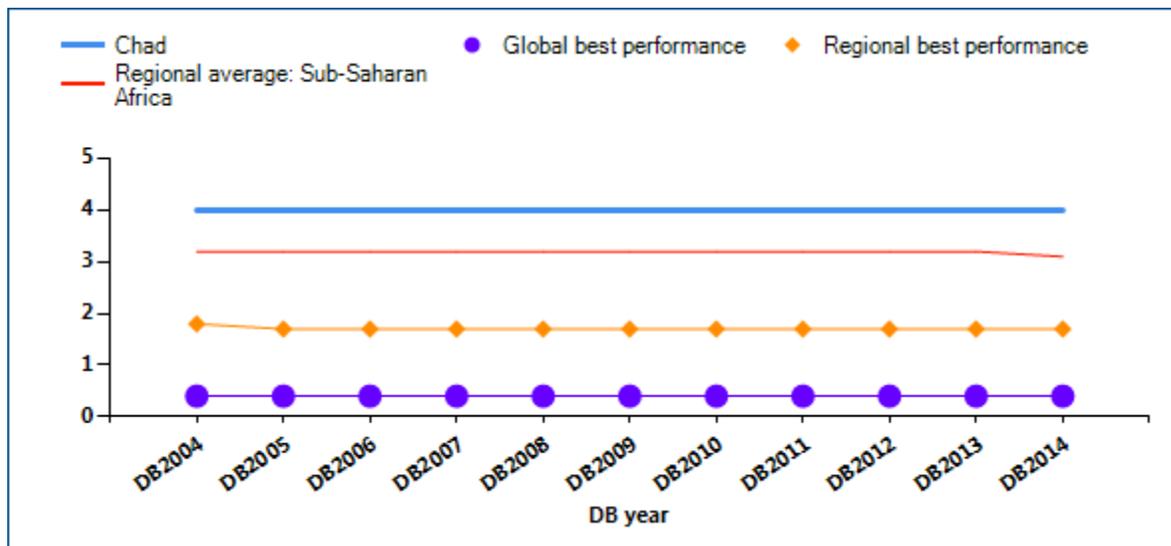
What are the changes over time?

The benchmarks provided by the economies that over time have had the best performance regionally or globally on the time or cost of insolvency proceedings or on the recovery rate (figure 11.2) help show what is

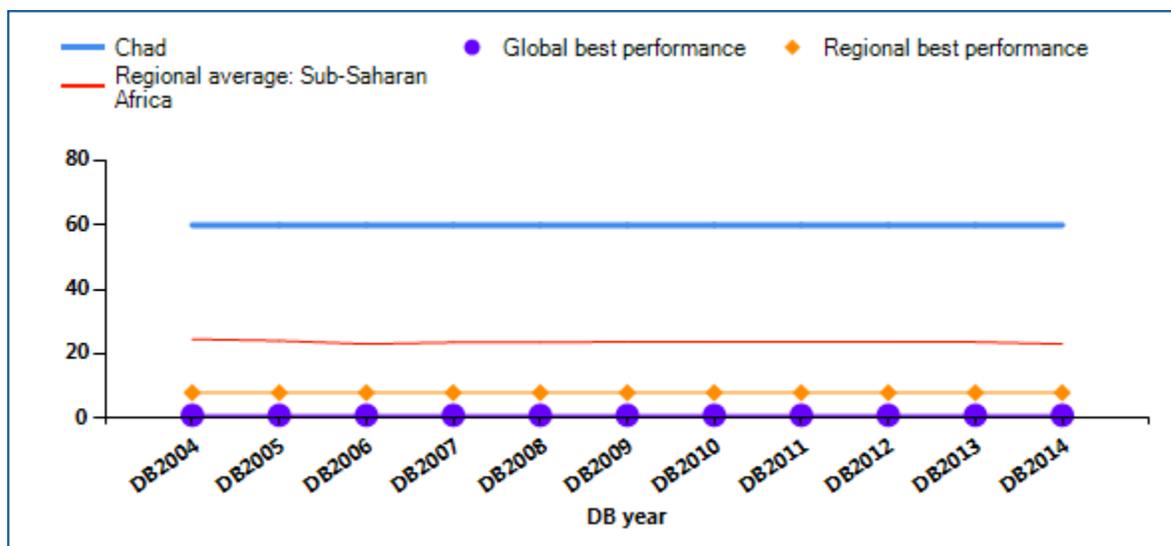
possible in improving the efficiency of insolvency proceedings. And changes in regional averages can show where Chad is keeping up—and where it is falling behind.

Figure 11.2 Has resolving insolvency become easier over time?

Time (years)

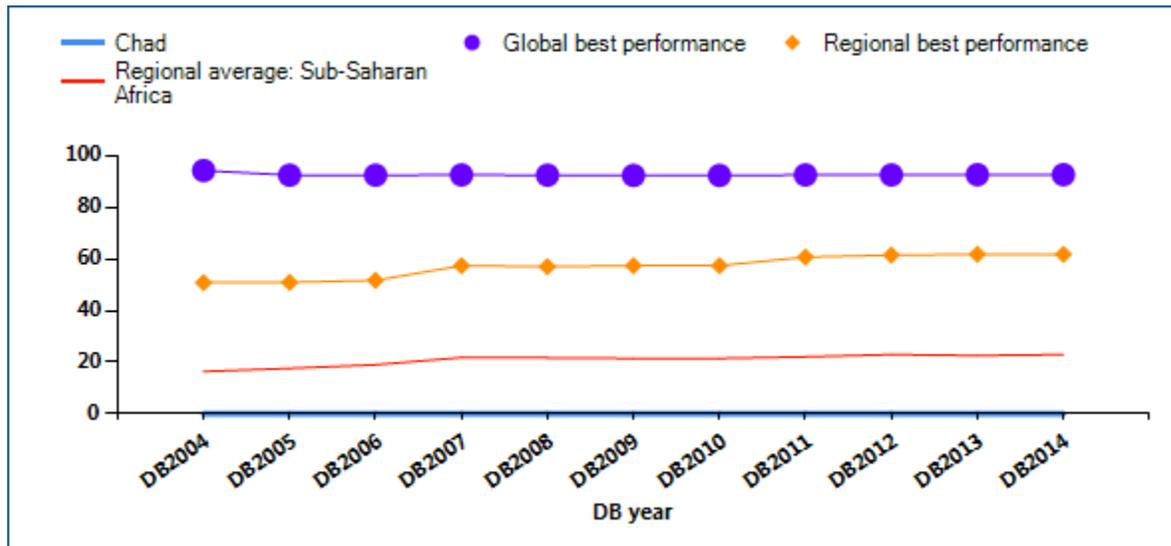


Cost (% of estate)



RESOLVING INSOLVENCY

Recovery rate (cents on the dollar)



Note: DB2013 rankings shown are not last year's published rankings but comparable rankings for DB2013 that capture the effects of such factors as data corrections and the addition of 4 economies (Libya, Myanmar, San Marino and South Sudan) to the sample this year. "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. Regional averages on time and cost exclude economies with a "no practice" mark.

Source: Doing Business database.

RESOLVING INSOLVENCY

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

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

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

By *Doing Business* report year

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

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.

EMPLOYING WORKERS

Doing Business measures flexibility in the regulation of employment, specifically as it affects the hiring and redundancy of workers and the rigidity of working hours. Over the period from 2007 to 2011 improvements were made to align the methodology for the employing workers indicators with the letter and spirit of the International Labour Organization (ILO) conventions. Only 4 of the 188 ILO conventions cover areas measured by *Doing Business*: employee termination, weekend work, holiday with pay and night work. The *Doing Business* methodology is fully consistent with these 4 conventions. The ILO conventions covering areas related to the Employing Workers indicators do not include the ILO core labor standards—8 conventions covering the right to collective bargaining, the elimination of forced labor, the abolition of child labor and equitable treatment in employment practices.

Between 2009 and 2011 the World Bank Group worked with a consultative group—including labor lawyers, employer and employee representatives, and experts from the ILO, OECD, civil society and the private sector—to review the employing workers methodology and explore future areas of research.ⁱ A full report with the conclusions of the consultative group is available at <http://www.doingbusiness.org/methodology/employing-workers>.

This year *Doing Business* continued research collecting additional data on regulations covering the probationary period for new employees.

Doing Business 2014 presents the data on the employing workers indicators in an annex. The report does not present rankings of economies on the employing workers indicators nor include the topic in the aggregate ranking on the ease of doing business. Detailed data collected on labor regulations and the

employing workers methodology proposed by the consultative group are available on the *Doing Business* website (<http://www.doingbusiness.org>). The data on employing workers are based on a detailed survey of employment regulations that is completed by local lawyers and public officials. Employment laws and regulations as well as secondary sources are reviewed to ensure accuracy.

To make the data comparable across economies, several assumptions about the worker and the business are used.

The worker:

- Earns a salary plus benefits equal to the economy's average wage during the entire period of his employment.
- Has a pay period that is the most common for workers in the economy.
- Is a lawful citizen who belongs to the same race and religion as the majority of the economy's population.
- Resides in the economy's largest business city.
- Is not a member of a labor union, unless membership is mandatory.

The business:

- Is a limited liability company.
- Operates in the economy's largest business city.
- Is 100% domestically owned.
- Operates in the manufacturing sector.
- Has 60 employees.
- Is subject to collective bargaining agreements in economies where such agreements cover more than half the manufacturing sector and apply even to firms not party to them.
- Abides by every law and regulation but does not grant workers more benefits than mandated by law, regulation or (if applicable) collective bargaining agreement.

EMPLOYING WORKERS

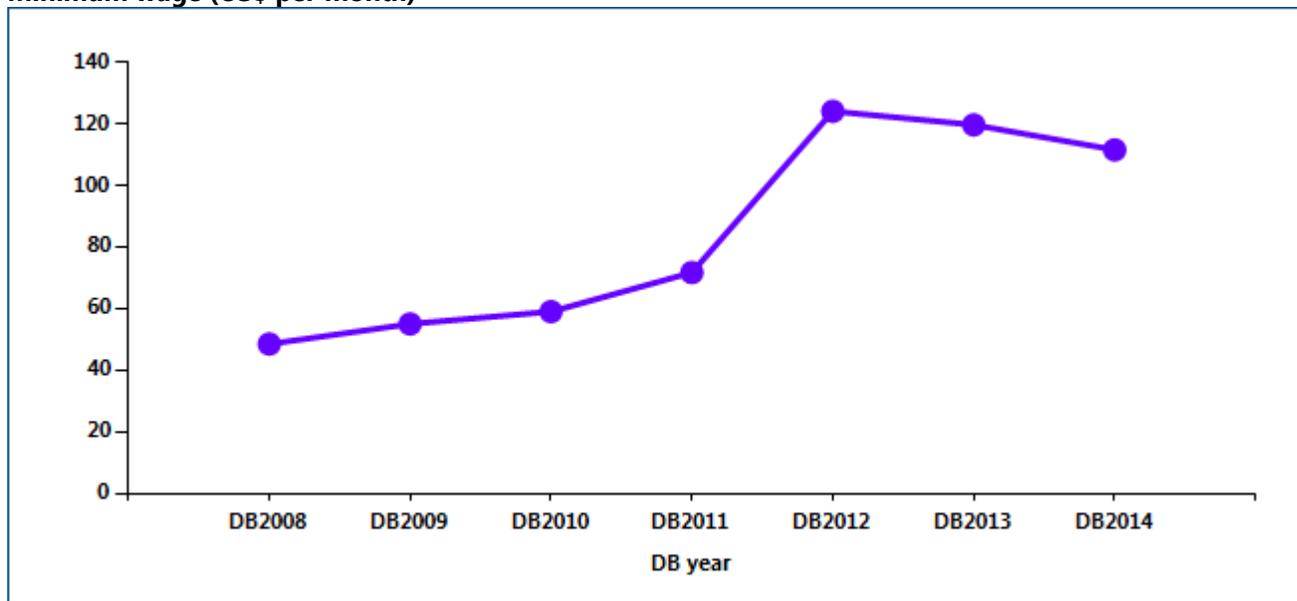
What do some of the data show?

One of the employing workers indicators is the difficulty of hiring index. This measure assesses, among other things, the minimum wage for a 19-year-old

worker in his or her first job. *Doing Business* data show the trend in the minimum wage applied by Chad (figure 12.1).

Figure 12.1 Has the minimum wage for a 19-year-old worker or an apprentice increased over time?

Minimum wage (US\$ per month)



Note: A horizontal line along the x-axis of the figure indicates that the economy has no minimum wage.

Source: *Doing Business* database.

EMPLOYING WORKERS

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

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

Table 12.1 What changes did Chad make in employing workers in 2013?

DB year	Reform
DB2009	No reform as measured by Doing Business.
DB2010	No reform as measured by Doing Business.
DB2011	No reform as measured by Doing Business.
DB2012	No reform as measured by Doing Business.
DB2013	No reform as measured by Doing Business.
DB2014	No reform as measured by Doing Business.

Source: *Doing Business* database.

EMPLOYING WORKERS

What are the details?

The data on employing workers reported here for Chad are based on a detailed survey of employment regulations that is completed by local lawyers and

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

Rigidity of employment index

The rigidity of employment index measures 3 areas of labor regulation: difficulty of hiring, rigidity of hours and difficulty of redundancy.

Difficulty of hiring index

The difficulty of hiring index measures whether fixed-term contracts are prohibited for permanent tasks; the maximum cumulative duration of fixed-term contracts; and the ratio of the minimum wage for a trainee or first-time employee to the average value added per

worker. (The average value added per worker is the ratio of an economy's gross national income per capita to the working-age population as a percentage of the total population.)

Difficulty of hiring index	Data
Fixed-term contracts prohibited for permanent tasks?	No
Maximum length of a single fixed-term contract (months)	24 - Arts. 58 et 59
Maximum length of fixed-term contracts, including renewals (months)	48
Minimum wage for a 19-year old worker or an apprentice (US\$/month)	111.7
Ratio of minimum wage to value added per worker	0.89

Source: *Doing Business* database.

EMPLOYING WORKERS

Rigidity of hours index

The rigidity of hours index has 5 components: whether there are restrictions on night work; whether there are restrictions on weekly holiday work; whether the workweek can consist of 5.5 days or is more than 6 days; whether the workweek can extend to 50 hours or more (including overtime) for 2 months a year to

respond to a seasonal increase in production; and whether the average paid annual leave for a worker with 1 year of tenure, a worker with 5 years and a worker with 10 years is more than 26 working days or fewer than 15 working days.

Rigidity of hours index	Data
Standard workday in manufacturing (hours)	8 hours (Art. 194)
50-hour workweek allowed for 2 months a year in case of a seasonal increase in production?	Yes
Maximum working days per week	6.0
Premium for night work (% of hourly pay) in case of continuous operations	0%
Premium for work on weekly rest day (% of hourly pay) in case of continuous operations	100%
Major restrictions on night work in case of continuous operations?	No
Major restrictions on weekly holiday in case of continuous operations?	No
Paid annual leave for a worker with 1 year of tenure (in working days)	24.0
Paid annual leave for a worker with 5 years of tenure (in working days)	24.0
Paid annual leave for a worker with 10 years of tenure (in working days)	26.0
Paid annual leave (average for workers with 1, 5 and 10 years of tenure, in working days)	24.7

Source: *Doing Business* database.

EMPLOYING WORKERS

Difficulty of redundancy index

The difficulty of redundancy index has 8 components: whether redundancy is disallowed as a basis for terminating workers; whether the employer needs to notify a third party (such as a government agency) to terminate 1 redundant worker; whether the employer needs to notify a third party to terminate a group of 9 redundant workers; whether the employer needs approval from a third party to terminate 1 redundant

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

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

Source: *Doing Business* database.

EMPLOYING WORKERS

Redundancy cost

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

notice requirements and severance payments applicable to a worker with 1 year of tenure, a worker with 5 years and a worker with 10 years is used to assign the score.

Redundancy cost indicator	Data
Notice period for redundancy dismissal (for a worker with 1 year of tenure, in salary weeks)	4.3
Notice period for redundancy dismissal (for a worker with 5 years of tenure, in salary weeks)	8.7
Notice period for redundancy dismissal (for a worker with 10 years of tenure, in salary weeks)	8.7
Notice period for redundancy dismissal (average for workers with 1, 5 and 10 years of tenure, in salary weeks)	7.2
Severance pay for redundancy dismissal (for a worker with 1 year of tenure, in salary weeks)	0.0
Severance pay for redundancy dismissal (for a worker with 5 years of tenure, in salary weeks)	5.4
Severance pay for redundancy dismissal (for a worker with 10 years of tenure, in salary weeks)	11.9
Severance pay for redundancy dismissal (average for workers with 1, 5 and 10 years of tenure, in salary weeks)	5.8

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 to achieve a regulatory goal or comply 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 11 sets of indicators measured in *Doing Business* were added over time, and the sample of economies expanded.

The data for all sets of indicators in *Doing Business 2014* are for June 2013.²

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 to more than 10,200 local experts, including lawyers, business consultants, accountants, freight forwarders, government officials and other professionals routinely administering or advising on legal and regulatory requirements (table 21.2). 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 2014* team members visited 33 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.

ECONOMY CHARACTERISTICS

Gross national income per capita

Doing Business 2014 reports 2012 income per capita as published in the World Bank's *World Development Indicators 2013*. Income is calculated using the Atlas method (current U.S. dollars). For cost indicators expressed as a percentage of income per capita, 2012 gross national income (GNI) in U.S. dollars is used as the denominator. GNI data were not available from the World Bank for Afghanistan, The Bahamas, Bahrain, Barbados, Brunei Darussalam, Djibouti, the Islamic Republic of Iran, Kuwait, Libya, Myanmar, New Zealand, Oman, San Marino, the Syrian Arab Republic, West Bank and Gaza, and the Republic of Yemen. In these cases GDP or GNP per capita data and growth rates from other sources, such as 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://data.worldbank.org/about/country-classifications>. The World Bank does not assign regional classifications to high-income economies. For the purpose of the *Doing Business* report, high-income OECD economies are assigned the "regional" classification *OECD high income*. Figures and tables presenting regional averages include economies from all income groups (low, lower middle, upper middle and high income).

Population

Doing Business 2014 reports midyear 2012 population statistics as published in *World Development Indicators 2013*.

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

² The data for paying taxes refer to January – December 2012.

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 (which in some economies differs from the capital) and may not be representative of regulation in other parts of the economy. To address this limitation, subnational *Doing Business* indicators were created (box 21.1). Second, the data often focus on a specific business form—generally a limited liability company (or its legal equivalent) of a specified size—and may not be representative of the regulation on other businesses, for example, sole proprietorships. Third, transactions described in a standardized case scenario refer to a specific set of issues and may not represent the full set of issues a business encounters. Fourth, the measures of time involve an element of judgment by the expert respondents. When sources indicate different estimates, the time indicators reported in *Doing Business* represent the median values of several responses given under the assumptions of the standardized case.

Finally, the methodology assumes that a business has full information on what is required and does not waste time when completing procedures. In practice, completing a procedure may take longer if the business lacks information or is unable to follow up promptly. Alternatively, the business may choose to disregard some burdensome procedures. For both reasons the time delays reported in *Doing Business 2014* would differ from the recollection of

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

This year *Doing Business* completed subnational studies in Colombia, Italy and the city of Hargeisa (Somaliland) and is currently updating indicators in Egypt, Mexico and Nigeria. *Doing Business* also published regional studies for the g7+ and the East African Community. The g7+ group is a country-owned and country-led global mechanism established in April 2010 to monitor, report and draw attention to the unique challenges faced by fragile states. The member countries included in the report are Afghanistan, Burundi, the Central African Republic, Chad, the Comoros, the Democratic Republic of Congo, Côte d'Ivoire, Guinea, Guinea-Bissau, Haiti, Liberia, Papua New Guinea, Sierra Leone, the Solomon Islands, South Sudan, Timor-Leste and Togo.

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 all the subnational studies published.

Changes in what is measured

The methodology for 2 indicator sets—trading across borders and paying taxes—was updated this year. For trading across borders, documents that are required purely for purposes of preferential treatment are no longer included in the list of documents (for example, a certificate of origin if the use is only to qualify for a preferential tariff rate under trade agreements). For paying taxes, the value of fuel taxes is no longer included in the total tax rate because of the difficulty of computing these taxes in a consistent way across all economies covered. The fuel tax amounts are in most cases very small, and measuring these amounts is often complicated because they depend on fuel consumption. Fuel taxes continue to be counted in the number of payments.

In a change involving several indicator sets, the rule establishing that each procedure must take at least 1 day was removed for procedures that can be fully completed online in just a few hours. This change affects the time indicator for starting a business,

dealing with construction permits and registering property.³ For procedures that can be fully completed online, the duration is now set at half a day rather than a full day.

The threshold for the total tax rate introduced in 2011 for the purpose of calculating the ranking on the ease of paying taxes was updated. All economies with a total tax rate below the threshold (which is calculated and adjusted on a yearly basis) receive the same ranking on the total tax rate indicator. The threshold is not based on any economic theory of an “optimal tax rate” that minimizes distortions or maximizes efficiency in the tax system of an economy overall. Instead, it is mainly empirical in nature, set at the lower end of the distribution of tax rates levied on medium-size enterprises in the manufacturing sector as observed through the paying taxes indicators. This reduces the bias in the indicators toward economies that do not need to levy significant taxes on companies like the *Doing Business* standardized case study company because they raise public revenue in other ways—for example, through taxes on foreign companies, through taxes on sectors other than manufacturing or from natural resources (all of which are outside the scope of the methodology). This year the threshold is 25,5%.

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

Doing Business 2014 presents results for 2 aggregate measures: the aggregate ranking on the ease of doing business and the distance to frontier measure. The ease of doing business ranking compares economies

with one another, while the distance to frontier measure benchmarks economies to the frontier in regulatory practice, measuring the absolute distance to the best performance on each indicator. Both measures can be used for comparisons over time. When compared across years, the distance to frontier measure shows how much the regulatory environment for local entrepreneurs in each economy has changed over time in absolute terms, while the ease of doing business ranking can show only relative change.

Ease of doing business

The ease of doing business index ranks economies from 1 to 189. 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 2014*: starting a business, dealing with construction permits, getting electricity, registering property, getting credit, protecting investors, paying taxes, trading across borders, enforcing contracts, and resolving insolvency. The employing workers indicators are not included in this year’s aggregate ease of doing business ranking.

Construction of the ease of doing business index

Here is one example of how the ease of doing business index is constructed. In Denmark it takes 4 procedures, 5.5 days and 0.2% of annual income per capita in fees to open a business. The minimum capital requirement is 24% of annual income per capita. On these 4 indicators Denmark ranks in the 12th, 11th, 1st and 79th percentiles. So on average Denmark ranks in the 25th percentile on the ease of starting a business. It ranks in the 21st percentile on getting credit, 19th percentile on paying taxes, 27th percentile on enforcing contracts, 5th percentile on resolving insolvency and so on. Higher rankings indicate simpler regulation and stronger protection of property rights. The simple average of Denmark’s percentile rankings on all topics is 17th. When all economies are ordered by their average percentile rankings, Denmark stands at 5 in the aggregate ranking on the ease of doing business.

More complex aggregation methods—such as principal components and unobserved components—yield a ranking nearly identical to the simple average

³ For getting electricity the rule that each procedure must take a minimum of 1 day still applies because in practice there are no cases in which procedures can be fully completed online in less than a day. For example, even though in some cases it is possible to apply for an electricity connection online, additional requirements mean that the process cannot be completed in less than 1 day.

used by *Doing Business*.⁴ Thus, *Doing Business* uses the simplest method: weighting all topics equally and, within each topic, giving equal weight to each of the topic components.

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, 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 0.38, and the coefficients between any 2 sets of indicators range from 0.18 (between getting electricity and getting credit) to 0.58 (between trading across borders and resolving insolvency and between trading across borders and getting electricity). These correlations suggest that economies rarely score universally well or universally badly on the indicators.

Consider the example of Canada. It stands at 19 in the aggregate ranking on the ease of doing business. Its ranking is 2 on starting a business, 4 on protecting investors, and 8 on paying taxes. But its ranking is only

⁴ 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.

58 on enforcing contracts, 116 on dealing with construction permits and 145 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.

Distance to frontier measure

A drawback of the ease of doing business ranking is that it can measure the regulatory performance of economies only relative to the performance of others. It does not provide information on how the absolute quality of the regulatory environment is improving over time. Nor does it provide information on how large the gaps are between economies at a single point in time.

The distance to frontier measure is designed to address both shortcomings, complementing the ease of doing business ranking. This measure illustrates the distance of an economy to the “frontier,” and the change in the measure over time shows the extent to which the economy has closed this gap. The frontier is a score derived from the most efficient practice or highest score achieved on each of the component indicators in 10 *Doing Business* indicator sets (excluding the employing workers indicators) by any economy. In starting a business, for example, Canada and New Zealand have achieved the highest performance on the number of procedures required (1) and on the time (0.5 days), Denmark and Slovenia on the cost (0% of income per capita) and Chile, Zambia and 99 other economies on the paid-in minimum capital requirement (0% of income per capita) (table 22.2).

Calculating the distance to frontier for each economy involves 2 main steps. First, individual indicator scores are normalized to a common unit: except for the total tax rate, each of the 31 component indicators y is rescaled to $(\max - y)/(\max - \min)$, with the minimum value (\min) representing the frontier—the highest performance on that indicator across all economies since 2003 or the first year the indicator was collected.⁵ For the total tax rate, consistent with the calculation of

⁵ Even though scores for the distance to frontier are calculated from 2005, data from as early as 2003 are used to define the frontier

the rankings, the frontier is defined as the total tax rate at the 15th percentile of the overall distribution of total tax rates for all years. Second, for each economy the scores obtained for individual indicators are aggregated through simple averaging into one distance to frontier score, first for each topic and then across all topics. An economy's distance to frontier is indicated on a scale from 0 to 100, where 0 represents the lowest performance and 100 the frontier.

The maximum (max) and minimum (min) observed values are computed for all economies included in the *Doing Business* sample since 2003 and for all years (from 2003 to 2013). 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. The exceptions are the getting credit, protecting investors and resolving insolvency indicators, whose construction precludes outliers. In addition, the cost to export and cost to import for each year are divided by the GDP deflator, so as to take the general price level into account when benchmarking these absolute-cost indicators across economies with different inflation trends. The base year for the deflator is 2013 for all economies.

The difference between an economy's distance to frontier score in any previous year and its score in 2013 illustrates the extent to which the economy has closed the gap to the frontier over time. And in any given year the score measures how far an economy is from the highest performance at that time.

Take Colombia, which has a score of 70.5 on the distance to frontier measure for 2014. This score indicates that the economy is 29.5 percentage points away from the frontier constructed from the best performances across all economies and all years. Colombia was further from the frontier in 2009, with a score of 66.2. The difference between the scores shows an improvement over time.

The distance to frontier measure can also be used for comparisons across economies in the same year, complementing the ease of doing business ranking. For example, Colombia stands at 63 this year in the ease of doing business ranking, while Peru, which is 29.3 percentage points from the frontier, stands at 42.

Economies that improved the most across 3 or more Doing Business topics in 2012/13

Doing Business 2014 uses a simple method to calculate which economies improved the most in the ease of doing business. First, it selects the economies that in 2012/13 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.⁶ Twenty-nine economies meet this criterion: Azerbaijan, Belarus, Burundi, Côte d'Ivoire, Croatia, Djibouti, Gabon, Guatemala, Guinea, Italy, Kosovo, Latvia, the former Yugoslav Republic of Macedonia, Malaysia, Mauritius, Mexico, Moldova, Mongolia, Morocco, Panama, the Philippines, the Republic of Congo, Romania, the Russian Federation, Rwanda, Sri Lanka, Ukraine, Uzbekistan and the United Arab Emirates. Second, *Doing Business* sorts these economies on the increase in their distance to frontier measure from the previous year using comparable data.

Selecting the economies that implemented regulatory reforms in at least 3 topics and improved the most in the distance to frontier measure is intended to highlight economies with ongoing, broadbased reform programs. The criterion for identifying the top improvers was changed from last year. The improvement in ease of doing business ranking is no longer used. The improvement in the distance to frontier measure is used instead because under this measure economies are sorted according to their absolute improvement instead of relative improvement.

⁶ *Doing Business* reforms making it more difficult to do business are subtracted from the total number of those making it easier to do business.

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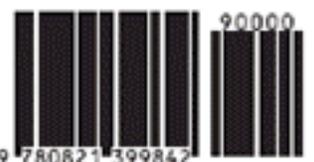


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