# **COUNTRY TABLES**

The team collected data in 40 countries in the following 11 areas: seed, fertilizer, machinery, finance, markets, transport, land, information and communications technology (ICT), water, livestock and environmental sustainability. Six of the topics were chosen for scoring and are presented in this section.

### BANGLADESH

SOUTH ASIA 149 LOWER MIDDLE INCOME

<b>70.8</b> seed	<b>52.8</b> Fertiliz	B 38.1 ER MACHINERY	60.1 FINANCE	<b>80.4</b> markets	60.7 TRANSPORT
	2 <sup>a</sup> Pro 3 <sup>a</sup> Tim 0.0 <sup>a</sup> Cos 57.1 Δ S	eed registration (0–100) cedures (number) e (days) t in US\$ (% income per capita) eed development and certificati	ion (0–100)		
	45.0 Δ F 7 Pro 951 Tim .6 (65.1) Cos 66.7 ∂ F 46.7 ◊ Fe .2 (22.1) Cos	artilizer registration (0–100)         cedures (number)         e (days)         t in US\$ (% income per capita)         ertilizer quality control (0–100)         ertilizer import requirements (0-         t to register as an importer of fer         t to obtain an import permit for fer	tilizer in US\$ (% income		
	37.5 ∆ T 13.3 ∂ Tr 63.3 ◊ Tr .2 (22.1) Cos	CHINERY requirements (0–1 ractor dealer requirements (0–1 ractor standards and safety (0– ractor import requirements (0–1 t to register as an importer of trac t to obtain an import permit for tr	100) 00) ctors in US\$ (% income µ		
	57.1         Δ M           60.0         Δ C           100         Δ A           25.0         Δ E	ANCE Interview of the second s	))		
	85.7 △ P 75.0 ∂ P 1 Exp 1 Tim 6.0 (0.6) Cos 0 Trac	RKETS roduction and sales (0–100) lant protection (0–100) ort documents per shipment (num e to prepare export documents (a t of export documents in US\$ (% der licensing and membership req t of licenses and membership in 0	lays) income per capita) juirements (number)	a)	
	60.7 TRA 64.3 Δ T N/A Tim N/A Cos N/A Vali 3.5 Tim 0.0 (2.8) Cos 3 Vali 0.7 (1.0) Cos 1 Vali	NSPORT ruck licenses (0–100) e to obtain company license (day t to obtain company license in US dity of company license (years) e to obtain truck permit (days) t to obtain truck permit in US\$ (% dity of truck permit (years) t to obtain vehicle technical inspe- dity of vehicle inspection (years) ross-border transportation (0–1	s) \$\$ (% income per capita) income per capita) ection in US\$ (% income		
-60	16	51	•	F	. 7

 60.6
 51.7
 55.7

 OPERATIONS (Δ)
 QUALITY CONTROL (∂)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . A Registration is not available for maize varieties. Private companies can, at their discretion and at no cost, list maize varieties in the national catalogue. This is what the procedures and time capture.

### LATIN AMERICA & CARIBBEAN 150 LOWER MIDDLE INCOME

84.4 E	<b>3.3</b> RTILIZER	38.3 MACHINERY	65.3 Finance	<b>81.3</b> MARKETS	67.9 TRANSPORT
<b>84.4</b> 81.3 5 517 711.3 (25.1) 87.5	Procedures (i Time (days) Cost in US\$ ( <b>∆ Seed deve</b>	stration (0–100) number) % income per capita) lopment and certificatio	on (0–100)		
63.3 20.0 N/Aª N/Aª 100 70.0 0 No data	Procedures (i Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regist	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0– ter as an importer of fert n an import permit for fer	ilizer in US\$ (% income		
<b>38.3</b> 25.0 6.7 83.3 <i>0</i> <i>N/A</i>	∂ Tractor sta ◊ Tractor imp Cost to regist	aler requirements (0–10 andards and safety (0–1 port requirements (0–10 ter as an importer of trac n an import permit for trac	00) 00) tors in US\$ (% income p		
<b>65.3</b> 66.7 93.3 0 91.7 75.0	$\Delta$ Credit unic $\Delta$ Agent ban $\Delta$ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)			
81.3 100 62.5 1 2 54.0 (1.9) 0 N/A	∂ Plant prote Export docum Time to prepa Cost of expon Trader licens.	n and sales (0–100) ection (0–100) nents per shipment (num are export documents (da rt documents in US\$ (% ir ing and membership requ ses and membership in U	ays) ncome per capita) uirements (number)	a)	
67.9 64.3 <i>N/A</i> <i>N/A</i> <i>N/A</i> 4.5 10.0 (0.4) 1 10 (0.4) 1 71.4	Cost to obtai Validity of co Time to obtai Cost to obtai Validity of tru Cost to obtai Validity of ver		\$ (% income per capita) income per capita) ction in US\$ (% income		
			-,		

BOLIVIA

 59.8
 56.4
 74.9

 OPERATIONS (Δ)
 QUALITY CONTROL (∂)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer.

# **BOSNIA AND HERZEGOVINA**

EUROPE & CENTRAL ASIA 151 UPPER MIDDLE INCOME

<b>42.0</b> seed	<b>94.4</b> FERTILIZER	<b>44.0</b> MACHINERY	18.1 Finance	<b>93.8</b> MARKETS	71.4 TRANSPORT
Nop	ractice Procedures ractice Time (days) ractice Cost in US\$	stration (0–100) (number) (% income per capita) elopment and certification	n (0–100)		
23.	2 Procedures 31 Time (days) 3 (0.5) Cost in US\$ 100 ∂ Fertilizer 83.3 ◊ Fertilizer 0 Cost to regis	registration (0–100) (number) (% income per capita) quality control (0–100) import requirements (0–1 ster as an importer of fertil in an import permit for fert	izer in US\$ (% income		
	27.8 ∂ Tractor st 66.7 ◊ Tractor in N/A Cost to regis	ealer requirements (0–10 candards and safety (0–10 port requirements (0–10 ster as an importer of tracto in an import permit for tracto	00) 0) ors in US\$ (% income		
	$\begin{array}{ccc} 0 & \Delta \mbox{ Credit un} \\ N/A^{b} & \Delta \mbox{ Agent ba} \\ 0 & \Delta \mbox{ Electronic} \end{array}$	nce institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)			
26.	<ul> <li>87.5 ∂ Plant prot</li> <li>1 Export docu</li> <li>1 Time to prep</li> <li>7 (0.6) Cost of expo</li> <li>0 Trader licen</li> </ul>	on and sales (0–100) tection (0–100) ments per shipment (numb pare export documents (day ort documents in US\$ (% ind sing and membership requi nses and membership in US	vs) come per capita) irements (number)	ta)	
33.	71.4         TRANSPOR           71.4         Δ Truck lice           60         Time to obta           7 (5.6)         Cost to obta           10         Validity of c           30         Time to obta           10         Validity of c           30         Time to obta           10         Validity of to           30         Time to obta           10         Validity of to           10         Validity of to           10         Cost to obta           10         Validity of to           10         Validity of to		(% income per capita ncome per capita) tion in US\$ (% income	)	
61		71		74	0 0



The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .

### **BURKINA FASO**

SUB-SAHARAN AFRICA 152

LOW INCOME

<b>54.2</b>	<b>4</b> FER	<b>3.9</b> ITILIZER	40.6 MACHINERY	37.2 FINANCE	<b>58.9</b> MARKETS	60.7 TRANSPORT
No	54.2 65.6 practice practice practice 42.9	Procedures (r Time (days) Cost in US\$ (%	tration (0–100) humber) % income per capita) opment and certificatio	n (0–100)		
	<b>43.9</b> 0 <i>N/A<sup>a</sup></i> <i>N/A<sup>a</sup></i> 66.7 65.0 2.0 (0.3) 2.0 (0.3)	Procedures (r Time (days) Cost in US\$ (? ∂ Fertilizer qu ◊ Fertilizer in Cost to regist	egistration (0–100) humber) % income per capita) uality control (0–100) hport requirements (0–1 er as an importer of ferti h an import permit for fert	lizer in US\$ (% income		
	<b>40.6</b> 37.5 6.7 77.5 0.4 (4.3) 2.0 (0.3)	∂ Tractor sta ◊ Tractor imp Cost to regist	aler requirements $(0-10)$ ndards and safety $(0-10)$ port requirements $(0-10)$ er as an importer of tract of an import permit for tract	00) 0) ors in US\$ (% income µ		
	<b>37.2</b> 42.9 60.0 0 83.3 0	$\Delta$ Credit unio $\Delta$ Agent banl $\Delta$ Electronic				
7	<b>58.9</b> 92.9 25.0 2 9.2 (2.7) 0 <i>N/A</i>	∂ Plant prote Export docum Time to prepa Cost of expor Trader licensi	a and sales (0–100) ction (0–100) nents per shipment (numl irre export documents (da t documents in US\$ (% in ing and membership requ res and membership in US	ys) come per capita) irements (number)	a)	
	<b>60.7</b> <b>50.0</b> <i>N/A</i> <i>N/A</i> <i>1</i> 1.0 (3.0) 0.5 0.0 (12.3) 0.5	TRANSPORT △ Truck licen Time to obtain Cost to obtain Validity of con Time to obtain Cost to obtain Validity of tru Cost to obtain Validity of vel	ses (0–100) n company license (days) n company license in US\$ mpany license (years) n truck permit (days) n truck permit in US\$ (% in ck permit (years) n vehicle technical inspec nicle inspection (years)	c (% income per capita) ncome per capita) tion in US\$ (% income		
	71.4	v Cross-bord	er transportation (0–10	•)	_71	2

45.3 32.8 71.3 OPERATIONS (Δ) QUALITY CONTROL (∂) TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer.

#### 153 **SUB-SAHARAN AFRICA**

**LOW INCOME** 

<b>53.8</b> seed	62.2 Fertilizer	<b>35.6</b> MACHINERY	21.3 FINANCE	<b>60.7</b> MARKETS	53.6 TRANSPORT
2 No prac No prac No prac	tice Procedures tice Time (days) tice Cost in US\$	stration (0–100) (number) (% income per capita) elopment and certificatio	n (0–100)		
e No prac No prac No prac e No c	tice Procedures tice Time (days) tice Cost in US\$ 56.7 ∂ Fertilizer 50.0 ◊ Fertilizer i N/A Cost to regis data Cost to obta 55.6 MACHINER 33.3 Δ Tractor d 3.3 ∂ Tractor st	(% income per capita) quality control (0–100) mport requirements (0–1 ster as an importer of ferti in an import permit for fer	ilizer in US\$ (% income tilizer in US\$ (% incom		
No c	50.0       ♦ Tractor im         N/A       Cost to regis         data       Cost to obta         21.3       FINANCE —         56.7       Δ Microfina         40.0       Δ Credit uni         0       Δ Agent bas         0       Δ Electronic	nport requirements (0–10 ster as an importer of tract in an import permit for tra- nnce institutions (0–100) ions (0–100) nking (0–100) c money (0–100)	00) tors in US\$ (% income <sub> </sub>		
7	<b>60.7MARKETS</b> 71.4Δ Productic50.0∂ Plant prot3Export docu6Time to prep71.1)Cost of export1Trader licent	se receipts $(0-100)$ on and sales $(0-100)$ section $(0-100)$ ments per shipment (num pare export documents (da ort documents in US\$ (% in sing and membership requires asses and membership in US	ys) come per capita) irements (number)	ta)	
12.0 ( 18.1 (	3.6.TRANSPOR35.7Δ Truck liceN/ATime to obtaN/ACost to obtaN/AValidity of c1Time to obta4.5)Cost to obta0.5Validity of ti6.7)Cost to obta0.5Validity of validity of valid		) \$ (% income per capita) ncome per capita) ction in US\$ (% income	)	
АГ				-60	

**BURUNDI** 

45.9 43.3 6 8 TRADE (0) OPERATIONS ( $\Delta$ ) QUALITY CONTROL (d)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

### **CAMBODIA**

OPERATIONS ( $\Delta$ )

EAST ASIA & PACIFIC 154 **LOW INCOME** 

TRADE (0)

<b>68.8</b> seed	57.2 FERTILIZER	26.5 MACHINERY	32.0 FINANCE	<b>67.9</b> markets	57.1 TRANSPORT
187.	6 Procedur 407 Time (da 0 (18.5) Cost in U	egistration (0–100) es (number) ys) S\$ (% income per capita) levelopment and certificatio	on (0–100)		
506.	3 Procedur o data <sup>a</sup> Time (da 5 (50.1) Cost in U 66.7 ∂ Fertiliz 60.0 ◊ Fertiliz No data Cost to re	er registration (0–100) es (number)	ilizer in US\$ (% income <sub>l</sub>		
	26.5         MACHIN           6.3         Δ Tracto           6.7         ∂ Tracto           66.7         ◊ Tracto           N/A         Cost to re		00) 100) 00) tors in US\$ (% income p	er capita)	
	$\begin{array}{ccc} 0 & \Delta \ {\rm Credit} \\ 74.3 & \Delta \ {\rm Agent} \\ 0 & \Delta \ {\rm Electrop} \end{array}$	inance institutions (0–100) unions (0–100) banking (0–100) onic money (0–100) ouse receipts (0–100)			
86	50.0 ∂ Plant p 3 Export de 7 Time to p 5.6 (8.6) Cost of e 0 Trader lic	S (0-100) protection (0-100) pocuments per shipment (num prepare export documents (de xport documents in US\$ (% in tensing and membership require censes and membership in U	ays) ncome per capita) uirements (number)	)	
11	57.1         TRANSP           57.1         Δ Truck           10         Time to a           2 (36.2)         Cost to a           2 (36.2)         Validity a           3.5         Time to a           1.0         Cost to a           2 (36.2)         Cost to a           2 (36.2)         Cost to a           3.5         Time to a           1.0         Cost to a           1         Validity a           5.8 (2.7)         Cost to a           1         Validity a		s) \$ (% income per capita) income per capita) ction in US\$ (% income p		
49	).1	41	.1	61	.3

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. No data on application for registration, but approval by committee takes 56 days.

### OECD HIGH INCOME 155 HIGH INCOME

TRADE (0)

93.8	4	3.3	43.3	N/A <sup>b</sup>	93.8	65.7
SEED	FEF	RTILIZER	MACHINERY	FINANCE	MARKETS	TRANSPORT
	93.8 87.5 5 848 920.8 (6.2) 100 43.3 0 N/A <sup>a</sup> N/A <sup>a</sup> N/A <sup>a</sup> 66.7	Procedures ( Time (days) Cost in US\$ Δ Seed deve FERTILIZER Δ Fertilizer I Procedures ( Time (days) Cost in US\$	(% income per capita) elopment and certificatio registration (0–100) (number) (% income per capita)	on (0–100)		
	63.3 N/A 20.1 (0.1)	Fertilizer in Cost to regis	quality control (0–100) mport requirements (0– ter as an importer of fert in an import permit for fer	ilizer in US\$ (% income		
	<b>43.3</b> 50.0 13.3 66.7 <i>N/A</i> <i>N/A</i>	∂ Tractor sta ♦ Tractor im Cost to regis	ealer requirements (0–1) andards and safety (0–1) port requirements (0–1) ter as an importer of trac in an import permit for trac	100) 00) tors in US\$ (% income p		
	N/A <sup>b</sup> - - - -	$\Delta$ Credit uni $\Delta$ Agent bar $\Delta$ Electronic	nce institutions (0–100) ons (0–100) hking (0–100) money (0–100) re receipts (0–100)			
	<b>93.8</b> 100 87.5 <i>1</i> <i>1</i> <i>0°</i> <i>0</i> <i>N/A</i>	O Plant prot Export docul Time to prep Cost of expo Trader licens     Cost     State State     State     State     State     State State     State State     State	n and sales (0–100) ection (0–100) ments per shipment (num are export documents (da rt documents in US\$ (% in sing and membership requ ses and membership in U	ays) ncome per capita) uirements (number)	a)	
	65.7 60.0 N/A N/A N/A N/A N/A 15.4 (0.1) 0.5 71.4	TRANSPORT △ Truck lice Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tru Cost to obta Validity of ve		s) \$ (% income per capita) income per capita) ction in US\$ (% income		
	5 <b>0.8</b>		55	.8	67	7.1

**CHILE** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer. b. High-income countries are not measured under the finance topic. c. The cost is 0.002 US\$ (0.0001% of income per capita)

### LATIN AMERICA & CARIBBEAN 156 UPPER MIDDLE INCOME

COLOMBIA
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<b>75.0</b> seed	9 FEP	<b>1.1</b> RTILIZER	50.0 MACHINERY	<b>89.4</b> FINANCE	<b>93.8</b> MARKETS	78.6 TRANSPORT
4,526.	<b>75.0</b> 50.0 5 591 4 (58.2) 100	Procedures (i Time (days) Cost in US\$ ( <b>∆ Seed deve</b>	tration (0–100) number) % income per capita) lopment and certificatio	on (0–100)		
	<b>91.1</b> 100 <i>3</i> 48 No data 100 73.3 <i>0</i> 1.3 (0.4)	Procedures (i Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regist	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0– ter as an importer of fert n an import permit for fe	ilizer in US\$ (% income		
	<b>50.0</b> 70.0 13.3 66.7 No data N/A	∂ Tractor sta ◊ Tractor imp Cost to regist	aler requirements (0–1) indards and safety (0–1) port requirements (0–1) ter as an importer of trac n an import permit for trac	100) 00) tors in US\$ (% income		
	<b>89.4</b> N/Aª 93.3 N/Aª 91.7 83.3	$\Delta$ Credit unic $\Delta$ Agent ban $\Delta$ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)			
Ν	<b>93.8</b> 100 87.5 2 4 50 data <sup>b</sup> 1 0	∂ Plant prote Export docum Time to prepa Cost of expor Trader licens	n and sales (0–100) ection (0–100) nents per shipment (num are export documents (da rt documents in US\$ (% in ing and membership requess and membership in U	ays) ncome per capita) uirements (number)	ta)	
Ind	<b>78.6</b> <b>71.4</b> 57 68 (3.4) lefinite ° N/A N/A N/A 5.4 (2.0) 2 <b>85.7</b>	Cost to obtain Validity of co Time to obtain Cost to obtain Validity of tru Cost to obtain Validity of ven		\$ (% income per capita income per capita) ction in US\$ (% income		
0 /	12		66	0	70	5 0



The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . a. Upper-middle-income countries are not measured under the microfinance institutions indicator and agent banking indicator. b. The cost of document 1 (phytosanitary certificate) is \$33.9 (0.4% of income per capita). The cost of document 2 (quality certificate) could not be obtained. c. Has to be validated every year.

# **CÔTE D'IVOIRE**

SUB-SAHARAN AFRICA 157 LOWER MIDDLE INCOME

<b>54.7</b>	6 FEP	<b>4.4</b> RTILIZER	45.4 MACHINERY	<b>37.7</b> FINANCE	<b>58.0</b> Markets	60.7 TRANSPORT
2,082.2	<b>54.7</b> 59.4 6 368 ? (134.2) 50.0	Procedures (i Time (days) Cost in US\$ (	stration (0–100) number) % income per capita) lopment and certificatio	on (0–100)		
No j No j	64.4 60.0 practice practice practice 66.7 66.7 9.5 (3.8) N/A	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer ir Cost to regist	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0– ter as an importer of fert n an import permit for fer	tilizer in US\$ (% income		
5	<b>45.4</b> 25.0 27.8 83.3 9.5 (3.8) N/A	∂ Tractor sta ◊ Tractor im Cost to regist	aler requirements (0–1) andards and safety (0–1) port requirements (0–1) ter as an importer of trac n an import permit for trac	100) 00) tors in US\$ (% income		
	<b>37.7</b> 42.9 60.0 0 85.4 0	∆ Credit unio ∆ Agent ban ∆ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)			
	<b>58.0</b> 78.6 37.5 3 No data No data 1 3 (12.8)	∂ Plant prote Export docum Time to prepa Cost of expo Trader licens	n and sales (0–100) ection (0–100) nents per shipment (num are export documents (d. rt documents in US\$ (% in ing and membership requises and membership in U	ays) ncome per capita) uirements (number)	ita)	
4	60.7 50.0 N/A N/A N/A 1 9.6 (3.2) 2 7.1 (5.6) 0.5 71.4	TRANSPORT △ Truck licer Time to obtai Cost to obtai Validity of co Time to obtai Cost to obtai Validity of tru Cost to obtai Validity of ve		s) \$ (% income per capita income per capita) ction in US\$ (% income	)	
<b>P</b> 4	1 0		ЛЛ	•	74	

 51.0
 44.0
 73.8

 OPERATIONS (Δ)
 QUALITY CONTROL (∂)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .

### DENMARK

OECD HIGH INCOME 158 HIGH INCOME

<b>87.5</b> SEED	8 FER	<b>2.2</b> TILIZER	80.7 MACHINERY	N/A <sup>a</sup> finance	<b>85.7</b> MARKETS	<b>100</b> transport
4,640	<b>87.5</b> 87.5 690 0.5 (7.6) <b>87.5</b>	Procedures ( Time (days) Cost in US\$ (	stration (0–100) (number) (% income per capita) elopment and certificatio	on (0–100)		
267	82.2 80.0 2 31 7.7 (0.4) 83.3 83.3 N/A N/A	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer c ◊ Fertilizer in Cost to regis	registration (0–100) (number) (% income per capita) (uality control (0–100) mport requirements (0–1 ter as an importer of ferta in an import permit for fer	ilizer in US\$ (% income		
	80.7 86.7 72.2 83.3 <i>N/A</i> <i>N/A</i>	<ul> <li>∂ Tractor sta</li> <li>◊ Tractor im</li> <li>Cost to regis</li> </ul>	ealer requirements (0–10 andards and safety (0–1 port requirements (0–10 ter as an importer of tract in an import permit for tra	00) 00) tors in US\$ (% income j		
	N/Aª - - -	∆ Credit unio ∆ Agent bar ∆ Electronic	nce institutions (0–100) ons (0–100) aking (0–100) money (0–100) e receipts (0–100)			
667	<b>85.7</b> 71.4 100 0 0 1 7.5 (1.1)	MARKETS – Δ Productio ∂ Plant prote Export docur Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (num are export documents (da rt documents in US\$ (% in sing and membership requ ses and membership in U	nys) iccome per capita) iirements (number)	ta)	
	<b>100</b> <b>100</b> 27 0 10 N/A N/A N/A 0.5 (0.3) 1 <b>100</b>	TRANSPORT △ Truck lice Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tru Cost to obta Validity of ve		) \$ (% income per capita) ncome per capita) ction in US\$ (% income	)	
85			85		_8	RQ

 85.1
 85.2
 88.9

 OPERATIONS (Δ)
 QUALITY CONTROL (ð)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . A High-income countries are not measured under the finance topic.

#### SUB-SAHARAN AFRICA 159 LOW INCOME

TRADE (0)

**ETHIOPIA** 

OPERATIONS ( $\Delta$ )

<b>58.9</b> seed	3 FEF	<b>4_4</b>	28.5 MACHINERY	59.8 FINANCE	<b>55.4</b> Markets	52.4 TRANSPORT
488	<b>58.9</b> 75.0 4 620 .9 (88.9) 42.9 <b>34.4</b> 20.0 <i>N/A</i> <sup>2</sup>	Procedures ( Time (days) Cost in US\$ ( Δ Seed deve FERTILIZER Δ Fertilizer r	(% income per capita) elopment and certificatio registration (0–100)	n (0–100)		
	N/Aª N/Aª 66.7 16.7 N/A N/A	∂ Fertilizer of ♦ Fertilizer in Cost to regis Cost to obtain	(% income per capita) quality control (0–100) mport requirements (0–1 ter as an importer of ferti in an import permit for fert	lizer in US\$ (% income		
	<b>28.5</b> 18.8 6.7 60.0 5.3 (2.8) 5.2 (0.9)	∂ Tractor sta ◊ Tractor im Cost to regis Cost to obtai	ealer requirements $(0-10)$ andards and safety $(0-10)$ port requirements $(0-10)$ ter as an importer of tract in an import permit for tract	DÓ) O) ors in US\$ (% income		
	<b>59.8</b> 47.6 60.0 91.4 0 100	∆ Credit uni ∆ Agent bar ∆ Electronic	nce institutions (0–100) ons (0–100) aking (0–100) money (0–100) e receipts (0–100)			
80	<b>55.4</b> 85.7 25.0 3 No data <sup>b</sup> 1.9 (14.7) 1 9.0 (1.6)	∂ Plant prot Export docu Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (numb are export documents (da rt documents in US\$ (% in ing and membership requ ses and membership in US	ys) come per capita) irements (number)	ta)	
	<b>52.4</b> 61.9 1 4.6 (6.3) 1 N/A N/A N/A 9.4 (3.5) 1 42.9	Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tro Cost to obta Validity of ve	nses (0–100) in company license (days) in company license in US\$ ompany license (years) in truck permit (days) in truck permit in US\$ (% in uck permit (years) in vehicle technical inspec chicle inspection (years) der transportation (0–100	(% income per capita ncome per capita) tion in US\$ (% income		
5	0.9	_	32.	8	39	9.8

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer. b. The time to obtain document 1 (phytosanitary certificate) is 1 day, and the time to obtain document 3 (fumigation certificate) is 1 day. The time to obtain document 2 (quality certificate) could not be obtained.

#### **EUROPE & CENTRAL ASIA** 160 OWER MIDDLE INCOME

TRADE (0)

6 -0 TRANSPORT

GEORGIA					EUROPE & CE LOWER MID	
<b>75.0</b>		<b>8.9</b> RTILIZER	<b>44.4</b> MACHINERY	<b>37.7</b> FINANCE	<b>86.6</b> MARKETS	1
	<b>75.0</b> 62.5 6 534 No data 87.5 <b>68.9</b> 90.0 5 765 260.6 (7.0) 50.0 66.7 N/A N/A <b>44.4</b> 33.3 33.3 66.7 N/A N/A <b>37.7</b> 0 80.0 0 50.0 58.3 <b>86.6</b> 85.7 87.5 2 5 95.6 (2.6) 0 N/A	Procedures ( Time (days) Cost in US\$ ( Δ Seed deve FERTILIZER Δ Fertilizer in Procedures ( Time (days) Cost in US\$ ( δ Fertilizer in Cost to regis Cost to obtai MACHINERY Δ Tractor de δ Tractor sta ( Tractor	(% income per capita) elopment and certificat registration (0–100) (number) (% income per capita) quality control (0–100) mport requirements (0- ster as an importer of fe- in an import permit for fe-	-100) rtilizer in US\$ (% incon ertilizer in US\$ (% incon 100) -100) 100) vctors in US\$ (% incom ractors in US\$ (% incom po) mber) days) income per capita) quirements (number)	e per capita) me per capita) me per capita)	
	65.7 60.0 N/A N/A N/A N/A N/A N/A N/A 71.4	Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tro Cost to obta Validity of ve	nses (0–100) ain company license (day in company license in Us ompany license (years) ain truck permit (days) in truck permit in US\$ (% uck permit (years) in vehicle technical insp ehicle inspection (years) der transportation (0–1	S\$ (% income per capi 6 income per capita) ection in US\$ (% incor		•
(	63.6		56	5.9		68.3

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

QUALITY CONTROL (d)

OPERATIONS ( $\Delta$ )

### SUB-SAHARAN AFRICA 161 LOWER MIDDLE INCOME

GHANA
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<b>40.6</b> seed	5 FEF	<b>9.4</b> RTILIZER	<b>39.2</b> MACHINERY	<b>41.7</b> FINANCE	<b>71.4</b> markets	65.7 TRANSPORT
	<b>40.6</b> 43.8 6 757 No data 37.5	Procedures (i Time (days) Cost in US\$ ( <b>∆ Seed deve</b>	stration (0–100) number) % income per capita) lopment and certificatio	n (0–100)		
	<b>59.4</b> 45.0 4 255 .4 (89.2) 66.7 66.7 66.7 8.4 (9.8) N/A	Procedures (i Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regist	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0–1 ter as an importer of ferti n an import permit for fer	lizer in US\$ (% income		
	<b>39.2</b> 37.5 13.3 66.7 <i>N/A</i> <i>N/A</i>	∂ Tractor sta ◊ Tractor imp Cost to regist	aler requirements (0–10 andards and safety (0–1 port requirements (0–10 ter as an importer of tract n an import permit for tract	00) 0) ors in US\$ (% income <sub>l</sub>		
	<b>41.7</b> 42.9 80.0 60.5 25.0 0	∆ Credit unic ∆ Agent ban ∆ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)			
2,435.6 (	<b>71.4</b> 92.9 50.0 3 8 5.9 (0.4) 3 (150.3) <sup>a</sup>	∂ Plant prote Export docum Time to prepa Cost of expor Trader licens	n and sales (0–100) ection (0–100) ments per shipment (numl are export documents (da rt documents in US\$ (% in ing and membership requ ses and membership in US	ys) come per capita) irements (number)	ta)	
	65.7 60.0 N/A N/A N/A N/A N/A 99 (6.1) 7 1.4	TRANSPORT ∆ Truck licer Time to obtain Cost to obtain Validity of condition Time to obtain Cost to obtain Validity of truc Cost to obtain Validity of ventility Validity of ventility		) (% income per capita) ncome per capita) etion in US\$ (% income		
5	29		43	3	69	33

52.9<br/>OPERATIONS (Δ)43.3<br/>QUALITY CONTROL (δ)68.3<br/>TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a △. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a ∂. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a ◊. a. The total cost excludes the cost of Ghana's Cocoa Export License, which could not be quantified and was recorded as "variable" based on contributor responses and the applicable regulations.

### OECD HIGH INCOME 162 HIGH INCOME

<b>73.4</b>	<b>93.3</b> FERTILIZER	74.6 MACHINERY	N/A <sup>a</sup> finance	<b>90.2</b> markets	92.9 TRANSPORT
1,911.	6 Procedure 729 Time (day 4 (8.7) Cost in US 100 Δ Seed d 93.3 FERTILIZI 100 Δ Fertiliz	S\$ (% income per capita) evelopment and certification ER er registration (0–100) es (number)	on (0–100)		
1,282. <sup>-</sup> 135	4 (5.8) Cost in US 100 ∂ Fertilize 80.0 ◊ Fertilize N/A Cost to re	S\$ (% income per capita) er quality control (0–100) er import requirements (0– gister as an importer of fer otain an import permit for fe	tilizer in US\$ (% income		
	73.3         ∂ Tractor           66.7         ◊ Tractor           N/A         Cost to re	r dealer requirements (0–1 standards and safety (0– import requirements (0–1 gister as an importer of trac btain an import permit for trac	100) 00) tors in US\$ (% income <sub>l</sub>		
	- Δ Credit ( - Δ Agent I - Δ Electro	nance institutions $(0-100)$ unions $(0-100)$ panking $(0-100)$ nic money $(0-100)$ puse receipts $(0-100)$			
809.	<ul> <li>87.5 ∂ Plant p</li> <li>0 Export do</li> <li>0 Time to p</li> <li>0 Cost of ex</li> <li>1 Trader lice</li> </ul>	tion and sales (0–100) rotection (0–100) cuments per shipment (num repare export documents (d. cort documents in US\$ (% in ensing and membership requerences and membership in U	ays) ncome per capita) uirements (number)	ta)	
674.	92.9         TRANSPO           85.7         Δ Truck I           60         Time to o.           9 (3.1)         Cost to ol.           10         Validity o.           N/A         Time to o.           N/A         Time to o.           N/A         Cost to ol.           N/A         Cost to ol.           N/A         Validity o.           7 (0.6)         Cost to ol.           1         Validity o.		s) \$ (% income per capita) income per capita) ction in US\$ (% income	)	
87	2	86	Q	82	))

**GREECE** 

 δ/.2
 δ0.9
 δ2.2

 OPERATIONS (Δ)
 QUALITY CONTROL (∂)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . A ligh-income countries are not measured under the finance topic.

#### LATIN AMERICA & CARIBBEAN 163 LOWER MIDDLE INCOME

TRADE (0)

g

TRANSPORT

06 FER	<b>6.9</b> TILIZER	40.6 MACHINERY	46.3 FINANCE	<b>86.6</b> MARKETS
<b>71.0</b> 56.3 4 166 67.5 (2.0) <b>85.7</b>	Procedures Time (days) Cost in US\$		ion (0–100)	
66.9 35.0 2 105 12.5 (0.4) 100 65.8 No data No data	Procedures Time (days) Cost in US\$ ∂ Fertilizer ◊ Fertilizer i Cost to regis	registration (0–100) (number)	rtilizer in US\$ (% income	
<b>40.6</b> 25.0 13.3 83.3 622.6 (18.1) N/A	∂ Tractor st ♦ Tractor im Cost to regis	ealer requirements (0– tandards and safety (0– nport requirements (0– ster as an importer of tra nin an import permit for th	·10Ó) 100) ctors in US\$ (% income	
<b>46.3</b> 0 40.0 91.4 25.0 75.0	∆ Credit un ∆ Agent ba ∆ Electronio	ance institutions (0–100 ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)	))	
<b>86.6</b> 85.7 87.5 1 6.3 (0.2) 0 N/A	ð Plant prot Export docu Time to prep Cost of expo Trader licen	on and sales (0–100) tection (0–100) iments per shipment (nui pare export documents (o prt documents in US\$ (% sing and membership red nses and membership in	lays) income per capita) quirements (number)	ita)
72.9 60.0 <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>100</i> (2.9) <i>1</i> 85.7	TRANSPOR A Truck lice Time to obta Cost to obta Validity of c Time to obta Cost to obta Validity of th Cost to obta Validity of v		rs) S\$ (% income per capita 5 income per capita) ection in US\$ (% income	a)
<b>53.8</b> OPERATIONS (Δ)			DNTROL (ð)	•

**GUATEMALA** 

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

#### **MIDDLE EAST & NORTH AFRICA** 164 **UPPER MIDDLE INCOME**

66

6

TRADE (0)

TRANSPORT

					UPPER MIDDL
<b>.0</b>		<b>7.8</b> TILIZER	42.1 MACHINERY	21.7 FINANCE	<b>83.9</b> MARKETS
No pra	<b>71.0</b> 56.3 actice actice actice 85.7	Procedures Time (days) Cost in US\$		on (0–100)	
13.6	67.8 70.0 3 66.7 66.7 66.7 5 (0.3) 5 (0.3)	Procedures Time (days) Cost in US\$ ∂ Fertilizer ◊ Fertilizer i Cost to regis	registration (0–100) (number)	tilizer in US\$ (% income	
13.6	<b>42.1</b> 36.3 13.3 76.7 5 (0.3) 5 (0.3)	MACHINER △ Tractor d ∂ Tractor st ◊ Tractor in Cost to regis		00) 100) 00) tors in US\$ (% income	per capita)
	<b>21.7</b> N/A <sup>b</sup> 40.0 N/A <sup>b</sup> 25.0 0	∆ Credit un ∆ Agent ba ∆ Electronio	ance institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)	)	
2.7	<b>83.9</b> 92.9 75.0 1 7 (0.1) 0 <i>N/A</i>	∂ Plant prot Export docu Time to prep Cost of expo Trader licen	on and sales (0–100) tection (0–100) iments per shipment (num pare export documents (d. ort documents in US\$ (% in sing and membership requesses and membership in U	ays) ncome per capita) uirements (number)	ta)
521.7	<b>66.7</b> 61.9 3 3 (3.9) 1 1	TRANSPOR △ Truck lice Time to obta Cost to obta Validity of c Time to obta Cost to obta Validity of th Cost to obta Validity of v		s) \$ (% income per capita income per capita) ction in US\$ (% income	)
58	9		51	.7	7

**JORDAN** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. Cost of application for registration is \$15, but cost of lab report is unknown. Approval by the National Committee is free. b. Upper-middle-income countries are not measured under the microfinance institutions indicator and agent banking indicator.

QUALITY CONTROL (d)

### SUB-SAHARAN AFRICA 165 LOWER MIDDLE INCOME

90.6 SEED	<b>50.0</b> Fertilizer	57.2 MACHINERY	72.9 FINANCE	<b>50.9</b> markets	75.0 TRANSPORT
9 1,798.5 (14	6 Procedures 321 Time (days) 0.5) Cost in US\$	stration (0–100) (number) (% income per capita) elopment and certificati	on (0–100)	_	
N N 6 327.0 (2) 1 5 4 6	<b>60.0FERTILIZER</b> 0 $\Delta$ Fertilizer $1/A^a$ Procedures $1/A^a$ Time (days) $1/A^a$ Cost in US\$ $66.7$ $\partial$ Fertilizer i $65.5$ Cost to regis $N/A$ Cost to obta $67.2$ MACHINERY $43.8$ $\Delta$ Tractor de $61.1$ $\partial$ Tractor st	registration (0–100) (number) (% income per capita) quality control (0–100) mport requirements (0– ster as an importer of fer in an import permit for fe	100) tilizer in US\$ (% income rtilizer in US\$ (% income 00) 100)		
7 9 8 8 8	N/A         Cost to regis           N/A         Cost to obta           Cost to obta         Cost to obta <t< td=""><th>ster as an importer of trac in an import permit for tra- nce institutions <math>(0-100)</math> ons <math>(0-100)</math> hking <math>(0-100)</math> c money <math>(0-100)</math> se receipts <math>(0-100)</math></th><td>ctors in US\$ (% income p actors in US\$ (% income</td><th></th><td></td></t<>	ster as an importer of trac in an import permit for tra- nce institutions $(0-100)$ ons $(0-100)$ hking $(0-100)$ c money $(0-100)$ se receipts $(0-100)$	ctors in US\$ (% income p actors in US\$ (% income		
6	<ul> <li>37.5 ∂ Plant prot</li> <li>4 Export docu</li> <li>6 Time to prep</li> <li>2)<sup>b</sup> Cost of expo</li> <li>2 Trader licens</li> </ul>	on and sales (0–100) rection (0–100) ments per shipment (num pare export documents (d ort documents in US\$ (% i sing and membership req ases and membership in U	ays) ncome per capita) uirements (number)	a)	
7       	<ul> <li>N/A Time to obta</li> <li>N/A Cost to obta</li> <li>N/A Validity of contract</li> <li>1 Time to obta</li> <li>2.6) Cost to obta</li> <li>1 Validity of tr</li> <li>0.9) Cost to obta</li> <li>1 Validity of validity validity of validity val</li></ul>	nses (0–100) ain company license (days in company license in US ompany license (years) ain truck permit (days) in truck permit in US\$ (% uck permit (years) in vehicle technical inspe ehicle inspection (years) der transportation (0–10	\$ (% income per capita) income per capita) oction in US\$ (% income		
50 5		55	·	73	0

**KENYA** 

58.3	55.1	73.8		
OPERATIONS (Δ)	QUALITY CONTROL (ð)	TRADE (◊)		

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer. b. The total cost excludes the cost of document 4 (export release order), which requires payment of an ad valorem levy (1% of ex-warehouse price for tea exports sold at the tea auction).

### **KYRGYZ REPUBLIC**

EUROPE & CENTRAL ASIA 166 LOWER MIDDLE INCOME

<b>48.9</b>	63.9 FERTILIZER	63.9 MACHINERY	79.8 FINANCE	<b>80.4</b> markets	72.9 TRANSPORT
2,850.7	5 Procedures 970 Time (days) 7 (228.1) Cost in US\$ 57.1 Δ Seed dev 63.9 FERTILIZER	(% income per capita) velopment and certificatio	on (0–100)		
277.	5 Procedures 730 Time (days) 9 (22.2) Cost in US\$ 50.0 ∂ Fertilizer 66.7 ◊ Fertilizer N/A Cost to regi		ilizer in US\$ (% income		
	33.3∂ Tractor s83.3◊ Tractor inN/ACost to regiN/ACost to obta	Y — equirements (0–1) tandards and safety (0–1) nport requirements (0–1) ister as an importer of trac ain an import permit for trac	100) 00) tors in US\$ (% income <sub>l</sub>		
	100 $\Delta$ Credit un91.4 $\Delta$ Agent ba87.5 $\Delta$ Electroni58.3 $\Delta$ Warehou	ance institutions (0–100) ions (0–100) inking (0–100) c money (0–100) ise receipts (0–100)			
7	75.0     ∂ Plant pro       1     Export docu       2     Time to pre       0.1 (0.8)     Cost of exp       0     Trader licent	on and sales (0–100) tection (0–100) Iments per shipment (num pare export documents (da ort documents in US\$ (% in using and membership requires nses and membership in U	ays) ncome per capita) uirements (number)	:a)	
1.	N/A Time to obt N/A Cost to obta N/A Validity of c N/A Time to obt N/A Cost to obta N/A Validity of t 2.4 (1.0) Cost to obta 1 Validity of v	n company license (days ain company license (days ain company license in US company license (years) ain truck permit (days) ain truck permit in US\$ (% ruck permit (years) ain vehicle technical inspe vehicle inspection (years) rder transportation (0–10	\$ (% income per capita) income per capita) ction in US\$ (% income		
7(	).7	52		78	3.6

OPERATIONS ( $\Delta$ ) QUALITY CONTROL (d) TRADE (0) The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

### LAO PDR

OPERATIONS ( $\Delta$ )

### EAST ASIA & PACIFIC 167 LOWER MIDDLE INCOME

TRADE (0)

<b>45.5</b>		<b>10.6</b> RTILIZER	20.0 MACHINERY	<b>34.3</b> FINANCE	<b>83.9</b> markets	<b>69.0</b> TRANSPORT
	<b>45.5</b> 62.5 No practice No practice 28.6 <b>60.6</b> 45.0 4 No data 7.9 (0.5) 83.3 53.3 N/A 3.1 (0.2) <b>20.0</b>	Procedures ( Time (days) Cost in US\$ △ Seed deve FERTILIZER △ Fertilizer Procedures ( Time (days) Cost in US\$ ∂ Fertilizer in Cost to regis	(% income per capita) elopment and certification registration (0–100) (number) (% income per capita) quality control (0–100) mport requirements (0– ster as an importer of fert in an import permit for fer	100) ilizer in US\$ (% income		
	0 6.7 53.3 <i>N/A</i> 1.2 (0.1) <b>34.3</b> 66.7 80.0 0 25.0 0	<ul> <li>Δ Tractor de ∂ Tractor st.</li> <li>◊ Tractor im Cost to regis Cost to obta</li> <li>FINANCE — Δ Microfina Δ Credit uni Δ Agent bar Δ Electronic</li> </ul>	ealer requirements $(0-1)$ andards and safety $(0-1)$ port requirements $(0-1)$ ster as an importer of trac- in an import permit for tra- nce institutions $(0-100)$ ons $(0-100)$ hking $(0-100)$ c money $(0-100)$ se receipts $(0-100)$	00) 00) tors in US\$ (% income actors in US\$ (% incom		
	<b>83.9</b> 92.9 75.0 2 3 151.0 (9.4) 0 N/A	MARKETS – △ Productio ∂ Plant prot Export documn Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (num pare export documents (da ort documents in US\$ (% in sing and membership requ ses and membership in U	ays) ncome per capita) uirements (number)	ta)	
	69.0 66.7 30 24.4 (1.5) 1 7 67.2 (4.2) 1 2.4 (0.2) 1 71.4	Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tr Cost to obta Validity of ve	nses (0–100) in company license (days in company license in US ompany license (years) in truck permit (days) in truck permit in US\$ (% uck permit (years) in vehicle technical inspe- chicle inspection (years) der transportation (0–10	\$ (% income per capita) income per capita) ction in US\$ (% income		
	47.4		55	.0	59	9.4

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

QUALITY CONTROL (d)

#### SUB-SAHARAN AFRICA 168 LOW INCOME

56.0 MARKETS MACHINERY FERTILIZER TRANSPORT 56.0 SEED 40.6  $\Delta$  Seed registration (0–100) No practice Procedures (number) No practice Time (davs) No practice Cost in US\$ (% income per capita)  $\Delta$  Seed development and certification (0–100) 71.4 71.1 FERTILIZER  $\Delta$  Fertilizer registration (0–100) 80.0 Procedures (number) Δ 90 Time (days) No data Cost in US\$ (% income per capita) 66.7 ∂ Fertilizer quality control (0-100) 66.7 ♦ Fertilizer import requirements (0–100) Cost to register as an importer of fertilizer in US\$ (% income per capita) 0 3.0 (0.4) Cost to obtain an import permit for fertilizer in US\$ (% income per capita) 27.8 MACHINERY 0  $\Delta$  Tractor dealer requirements (0–100) 6.7 ∂ Tractor standards and safety (0-100) 76.7 ♦ Tractor import requirements (0–100) Cost to register as an importer of tractors in US\$ (% income per capita) 3.0 (0.4) Cost to obtain an import permit for tractors in US\$ (% income per capita) 37.2 FINANCE  $\Delta$  Microfinance institutions (0–100) 42.9 60.0  $\Delta$  Credit unions (0–100)  $\Delta$  Agent banking (0–100) 0 83.3  $\Delta$  Electronic money (0–100)  $\Delta$  Warehouse receipts (0–100) 0 55.4 MARKETS 85.7  $\Delta$  Production and sales (0–100)  $\partial$  Plant protection (0–100) 25.0 Export documents per shipment (number) 7 Time to prepare export documents (days) 3 19.8 (2.7) Cost of export documents in US\$ (% income per capita) Trader licensing and membership requirements (number) 0 N/A Cost of licenses and membership in US\$ (% income per capita) 67.9 TRANSPORT 64.3  $\Delta$  Truck licenses (0–100) N/A Time to obtain company license (days) Cost to obtain company license in US\$ (% income per capita) N/AN/A Validity of company license (years) 3 Time to obtain truck permit (days) Cost to obtain truck permit in US\$ (% income per capita) 31.6 (4.4) Validity of truck permit (years) 7 Cost to obtain vehicle technical inspection in US\$ (% income per capita) 34.6 (4.8) 0.5 Validity of vehicle inspection (vears) 71.4 ♦ Cross-border transportation (0-100)

MALI



The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a ∆. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a ∂. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a ∂.

#### **MIDDLE EAST & NORTH AFRICA** 169 LOWER MIDDLE INCOME

60

TRANSPORT

5 FER	<b>0.4</b> TILIZER	52.0 MACHINERY	<b>O</b> FINANCE	<b>72.3</b> markets
85.9 71.9 6 585 469.9 (15.6) 100	Procedures Time (days) Cost in US\$	stration (0–100) (number) (% income per capita) elopment and certificat	ion (0–100)	
<b>50.4</b> 0 <i>N/A<sup>a</sup></i> <i>N/A<sup>a</sup></i> 94.4 56.7 <i>N/A</i> 0	Procedures Time (days) Cost in US\$ ∂ Fertilizer i ◊ Fertilizer i Cost to regis	registration (0–100)	rtilizer in US\$ (% income	
<b>52.0</b> 55.0 44.4 56.7 <i>N/A</i> 0	∂ Tractor st ◊ Tractor im Cost to regis	ealer requirements (0–1 andards and safety (0– port requirements (0–1 ster as an importer of tra in an import permit for tr	100) 100) ctors in US\$ (% income	
0 0 0 0 0 0	∆ Credit uni ∆ Agent bai ∆ Electronio	nce institutions (0–100 ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)	))	
<b>72.3</b> 82.1 62.5 2 No data <sup>b</sup> No data <sup>c</sup> 2 No data	<ul> <li>∂ Plant prot</li> <li>Export docu</li> <li>Time to prep</li> <li>Cost of export</li> <li>Trader licens</li> </ul>	on and sales (0–100) section (0–100) ments per shipment (nur pare export documents (o ort documents in US\$ (% sing and membership rec ases and membership in	lays) income per capita) quirements (number)	ta)
60.7 50.0 3 0 Indefinite <sup>d</sup> N/A N/A N/A 47 (1.6) 1 71.4	TRANSPOR △ Truck lice Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tr Cost to obta Validity of vo		rs) S\$ (% income per capita 5 income per capita) ection in US\$ (% income	)
45.5		67	.1	(

**MOROCCO** 

OPERATIONS ( $\Delta$ )

85.9

.6 6 TRADE (0)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. The private sector is not required to register fertilizer. b. The time to obtain document 1 (phytosanitary certificate) is 3 days. The time to obtain document 2 (inspection certificate) could not be obtained. c. The cost of document 1 (phytosanitary certificate) is \$17.6 (0.6% of income per capita). The cost of document 2 (inspection certificate) could not be obtained. d. License is revoked if any of the pre-requirements are not fullfiled.

## MOZAMBIQUE

SUB-SAHARAN AFRICA 170 LOW INCOME

90\_6 FERTILIZER TRANSPORT 90.6 SEED 81.3  $\Delta$  Seed registration (0–100) 7 Procedures (number) 582 Time (davs) Cost in US\$ (% income per capita) 500.0 (79.4)  $\Delta$  Seed development and certification (0–100) 100 46.1 FERTILIZER  $\Delta$  Fertilizer registration (0–100) 30.0 Procedures (number) No practice No practice Time (days) Cost in US\$ (% income per capita) No practice 50.0 ∂ Fertilizer quality control (0-100) 58.3 ♦ Fertilizer import requirements (0–100) Cost to register as an importer of fertilizer in US\$ (% income per capita) 200.0 (31.7) 81.6 (13) Cost to obtain an import permit for fertilizer in US\$ (% income per capita) 42.5 MACHINERY  $\Delta$  Tractor dealer requirements (0–100) 37.5 ∂ Tractor standards and safety (0-100) 6.7 83.3 ♦ Tractor import requirements (0–100) Cost to register as an importer of tractors in US\$ (% income per capita) 5548.1 (880.6) Cost to obtain an import permit for tractors in US\$ (% income per capita) N/A 29.8 FINANCE  $\Delta$  Microfinance institutions (0–100) 57.1 66.7  $\Delta$  Credit unions (0–100)  $\Delta$  Agent banking (0–100) 0 25.0  $\Delta$  Electronic money (0–100)  $\Delta$  Warehouse receipts (0–100) 0 83.9 MARKETS 92.9  $\Delta$  Production and sales (0–100)  $\partial$  Plant protection (0–100) 75.0 Export documents per shipment (number) 7 Time to prepare export documents (days) 2 13.4 (2.1) Cost of export documents in US\$ (% income per capita) Trader licensing and membership requirements (number) 0 N/A Cost of licenses and membership in US\$ (% income per capita) 60.7 TRANSPORT 64.3  $\Delta$  Truck licenses (0–100) N/A Time to obtain company license (days) Cost to obtain company license in US\$ (% income per capita) N/AN/A Validity of company license (years) 2.5 Time to obtain truck permit (days) Cost to obtain truck permit in US\$ (% income per capita) 130.5 (20.7) Validity of truck permit (years) 5 Cost to obtain vehicle technical inspection in US\$ (% income per capita) 34.4 (5.5) 0.5 Validity of vehicle inspection (vears) 57.1 ♦ Cross-border transportation (0-100)



The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a ∆. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a ∂. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a ∂.

### **MYANMAR**

### EAST ASIA & PACIFIC 171 LOWER MIDDLE INCOME

<b>53.6</b> SEED		<b>1.9</b> RTILIZER	21.4 MACHINERY	24.6 FINANCE	<b>42.0</b> MARKETS	22.6
44	<b>53.6</b> 50.0 6 306 5.1 (35.1) <b>57.1</b>	Procedures ( Time (days) Cost in US\$ (	stration (0–100) ínumber) % income per capita) elopment and certificati	on (0–100)		
	61.9 45.0 3 42 22.4 (9.6) 100 40.8 55.6 (4.4) 55.6 (4.4) 21.4	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regis	(% income per capita) quality control (0–100) mport requirements (0– ter as an importer of fer in an import permit for fe	tilizer in US\$ (% income		
	21.4 0 6.7 57.5 11.1 (0.9) 55.6 (4.4)	∆ Tractor de ∂ Tractor sta ◊ Tractor im Cost to regis	ealer requirements (0–1 andards and safety (0– port requirements (0–1 ter as an importer of trac in an import permit for trac	100) 00) stors in US\$ (% income p		
	<b>24.6</b> 42.9 80.0 0 0 0	∆ Credit unio ∆ Agent ban ∆ Electronic	nce institutions (0–100) ons (0–100) iking (0–100) money (0–100) e receipts (0–100)			
	<b>42.0</b> 71.4 12.5 2 4 20.3 (1.6) 0 N/A	∂ Plant prote Export docur Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (nun are export documents (d rt documents in US\$ (% i ing and membership req ses and membership in L	ays) ncome per capita) uirements (number)	a)	
	<b>22.6</b> 31.0 <i>N/A</i> <i>N/A</i> 11.5 2.2 (0.2) 1 51.7 (4.1) 1 4.3	TRANSPORT △ Truck licer Time to obtai Cost to obtai Validity of co Time to obtai Cost to obtai Validity of tru Cost to obtai Validity of ve		s) \$ (% income per capita) income per capita) ection in US\$ (% income j		
2	76		20	7	27	7 6

 37.6
 39.7
 37.5

 OPERATIONS (Δ)
 QUALITY CONTROL (∂)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .

IEPAI	-		
58	57 2	21 0	

1.0 (0.1)

FEI	RTILIZER	<b>ZI.U</b> MACHINERY	<b>5ULU</b> FINANCE	<b>81.3</b> MARKETS	<b>44.U</b> TRANSPORT
<b>55.8</b> 68.8 611 0 <b>42.9</b>	Procedures Time (days) Cost in US\$		ion (0–100)		
<b>57.2</b> 45.0 3 1125 49.4 (6.8) 66.7 60.0 0 83.9 (11.5)	Procedures Time (days) Cost in US\$ ∂ Fertilizer ◊ Fertilizer Cost to regi	registration (0–100) (number)	rtilizer in US\$ (% income		
<b>21.0</b> 6.3 6.7 50.0 <i>N/A</i> <i>N/A</i>	∂ Tractor s ◊ Tractor in Cost to regi	Y — lealer requirements (0–1 tandards and safety (0– nport requirements (0–1 ister as an importer of tra- ain an import permit for tr	-100) 100) ctors in US\$ (% income <sub>l</sub>		
<b>50.0</b> 57.1 93.3 74.3 25.0 0	$\Delta$ Credit un $\Delta$ Agent ba $\Delta$ Electroni	ance institutions (0–100 lions (0–100) Inking (0–100) Ic money (0–100) Ise receipts (0–100)			
81.3 100 62.5 2 5.3 (0.7) 0 N/A	∂ Plant pro Export docu Time to pre Cost of exp Trader licen	on and sales (0–100) tection (0–100) uments per shipment (nur pare export documents (o ort documents in US\$ (% osing and membership req nses and membership in t	lays) income per capita) quirements (number)	ta)	
<b>44.0</b> <b>45.2</b> <i>N/A</i> <i>N/A</i> <i>2</i> 303.7 (41.6) 0.3 1.0 (0.1)	Time to obt Cost to obta Validity of c Time to obt Cost to obta	T (0-100) rain company license (day ain company license in US company license (years) rain truck permit (days) ain truck permit in US\$ (% ruck permit (years)	S\$ (% income per capita)		

50 0

SOUTH ASIA 172

*ЛЛ* 

**LOW INCOME** 

**Q1 2** 

0.5 Validity of vehicle inspection (years) 42.9  $\diamond$  Cross-border transportation (0–100)



Cost to obtain vehicle technical inspection in US\$ (% income per capita)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

## NICARAGUA

### LATIN AMERICA & CARIBBEAN 173 LOWER MIDDLE INCOME

54.9 SEED F	<b>64.4</b> ERTILIZER	41.5 MACHINERY	<b>31.2</b> FINANCE	<b>67.0</b> markets	75.0 TRANSPORT
<b>54.9</b> 81.3 6 650 15,265.0 (834.2) 28.6	Procedures (n Time (days) Cost in US\$ (%	tration (0–100) humber) % income per capita) opment and certificati	on (0–100)		
64.4 35.0 2 30 1,600.0 (87.4) 100 58.3 50.0 (2.7) 25.0 (1.4) 41.5 31.3 13.3 80.0 0	Procedures (n Time (days) Cost in US\$ (% ∂ Fertilizer qu ◊ Fertilizer im Cost to regista Cost to obtain MACHINERY Δ Tractor dea ∂ Tractor stat ◊ Tractor imp Cost to regista	% income per capita) uality control (0–100) oport requirements (0- er as an importer of fer an import permit for fer aler requirements (0–1 ndards and safety (0– ort requirements (0–1 er as an importer of trace	tilizer in US\$ (% income ertilizer in US\$ (% incom 00) 100) 00) ctors in US\$ (% income	e per capita)	
No data 31.2 0 60.0 0 25.0 70.8	<b>FINANCE</b> Δ Microfinan Δ Credit unio Δ Agent bank Δ Electronic i	ce institutions (0–100 ns (0–100)	actors in US\$ (% income )		
67.0 71.4 62.5 2 28.9 (1.6) 1 0	MARKETS — △ Production ∂ Plant prote Export docum Time to prepa Cost of export Trader licensii	and sales (0–100) ction (0–100) eents per shipment (num re export documents (a t documents in US\$ (% ) ng and membership req	lays) income per capita)	ta)	
<b>75.0</b> 64.3 <i>N/A</i> <i>N/A</i> <i>N/A</i> 7.5 94.3 (5.2) 5 12.1 (0.7) 0.5 <b>85.7</b>	<b>TRANSPORT</b> <b>A</b> Truck licen Time to obtain Cost to obtain Validity of cor Time to obtain Cost to obtain Validity of truc Cost to obtain Validity of ven	ses (0–100) n company license (day n company license in US npany license (years) n truck permit (days) n truck permit in US\$ (% ck permit (years)	s) \$\$ (% income per capita) income per capita) ection in US\$ (% income		
10 0		E0	6	7/	17

48.0 58.6 74.7 OPERATIONS (Δ) QUALITY CONTROL (∂) TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .

#### SUB-SAHARAN AFRICA 174 LOW INCOME

TRADE (0)

<b>43.8</b> seed	4 FEF	<b>2.2</b> RTILIZER	24.4 MACHINERY	<b>36.8</b> FINANCE	<b>54.5</b> markets	60.7 TRANSPORT
Na Na	<b>43.8</b> 37.5 practice practice 50.0 <b>42.2</b> 0 <i>N/A<sup>a</sup></i> <i>N/A<sup>a</sup></i> 66.7 60.0 <i>N/A</i> 89.9 (9.3)	Procedures Time (days) Cost in US\$ △ Seed dev FERTILIZER △ Fertilizer Procedures Time (days) Cost in US\$ ∂ Fertilizer ◇ Fertilizer Cost to regis	(% income per capita) relopment and certification registration (0–100) (number)	100) ilizer in US\$ (% income		
	<b>24.4</b> 0 6.7 66.7 <i>N/A</i> <i>N/A</i> <b>36.8</b> 42.9 60.0 0 81.3 0	<ul> <li>∂ Tractor st</li> <li>◊ Tractor in</li> <li>Cost to regize</li> <li>Cost to obtain</li> <li>Cost to obtain</li> <li>FINANCE -</li> <li>Δ Microfina</li> <li>Δ Credit un</li> <li>Δ Agent ba</li> <li>Δ Electronic</li> </ul>	Y lealer requirements (0–10 tandards and safety (0–1 nport requirements (0–10 ster as an importer of tract ain an import permit for tra- ance institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)	00) 00) tors in US\$ (% income j ctors in US\$ (% income		
	<b>54.5</b> 71.4 37.5 <i>1</i> <i>3</i> 10 (2.3) <i>0</i> <i>N/A</i>	∂ Plant pro Export docu Time to pre Cost of expo Trader licen	on and sales (0–100) tection (0–100) iments per shipment (num pare export documents (da ort documents in US\$ (% in sing and membership requ nses and membership in U	nys) ncome per capita) nirements (number)	ta)	
3	60.7 50.0 N/A N/A N/A 1 39.9 (9.3) 0.5 0.3 (0.1) 0.5 71.4	TRANSPOR △ Truck lice Time to obta Cost to obta Validity of c Time to obta Cost to obta Validity of th Cost to obta Validity of v		) \$ (% income per capita) income per capita) ction in US\$ (% income		
3	3.7		36.	.9	6	6.0

**NIGER** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The private sector is not required to register fertilizer.

## PHILIPPINES

OPERATIONS ( $\Delta$ )

#### EAST ASIA & PACIFIC 175 LOWER MIDDLE INCOME

TRADE (0)

92.2	5	7.2	68.7	72.6	52.7	65.5
SEED	FEF	RTILIZER	MACHINERY	FINANCE	MARKETS	TRANSPORT
	<b>92.2</b> 84.4 6 ° 571 ° 0.0 ° 100	Procedures ( Time (days) Cost in US\$ (	stration (0–100) fnumber) % income per capita) elopment and certificatio	on (0–100)		
108	<b>57.2</b> 65.0 <i>3</i> 114 3.9 (6.0) <sup>b</sup> 66.7 40.0 No data No data	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regis	registration (0–100) (number) (% income per capita) (yuality control (0–100) mport requirements (0– ter as an importer of fert in an import permit for fer	ilizer in US\$ (% income		
12	68.7 53.8 72.2 80.0 00 (34.9) N/A °	∂ Tractor sta ◊ Tractor im Cost to regis	ealer requirements (0–10 andards and safety (0–1 port requirements (0–10 ter as an importer of tract in an import permit for tra	00) 00) tors in US\$ (% income p		
	<b>72.6</b> 85.7 100 0 89.6 87.5	∆ Credit unio ∆ Agent ban ∆ Electronic	nce institutions (0–100) ons (0–100) iking (0–100) money (0–100) e receipts (0–100)			
	<b>52.7</b> 67.9 37.5 2 3 97.3 (2.8) 1 13.5 (3.3)	∂ Plant prote Export docur Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (num are export documents (da rt documents in US\$ (% ir ing and membership requ ses and membership in U	nys) ncome per capita) nirements (number)	a)	
	<b>65.5</b> 59.5 235 136.1 (4) 5 <sup>d</sup> N/A N/A N/A 12.8 (0.4) 1 71.4	TRANSPORT △ Truck licer Time to obtai Cost to obtai Validity of co Time to obtai Cost to obtai Validity of tru Cost to obtai Validity of ve		) \$ (% income per capita) ncome per capita) ction in US\$ (% income		
6	8.5		58.	.8	63	3.8

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a Δ. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. A generative of seed, fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. A generative of set is a start of the store of the transport indicator score is an average of seed, fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicater score is an average of score is an average of fertilizer, machinery and transport indicated with a δ. The trade score is an average of fertilizer, machinery and transport

### OECD HIGH INCOME 176 **HIGH INCOME**

<b>78.1</b> seed	g Fef	<b>4_4</b>	66.7 MACHINERY	N/A <sup>a</sup> Finance	<b>90.2</b> MARKETS	92.9 TRANSPORT
	<b>78.1</b> 56.3 699 979.2 (7.1) 100	Procedures ( Time (days) Cost in US\$ (	stration (0–100) inumber) '% income per capita) elopment and certificatio	on (0–100)	_	
	94.4 100 4 60 219.8 (1.6) 100 83.3 <i>N/A</i> <i>N/A</i>	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer c ◊ Fertilizer in Cost to regis	registration (0–100) inumber) (% income per capita) juality control (0–100) mport requirements (0– ter as an importer of fert in an import permit for fer	ilizer in US\$ (% income		
	66.7 66.7 66.7 <i>N/A</i> <i>N/A</i>	∂ Tractor sta ◊ Tractor im Cost to regis	ealer requirements $(0-1)$ andards and safety $(0-1)$ port requirements $(0-1)$ ter as an importer of trac in an import permit for tra	00) 00) tors in US\$ (% income µ		
	N/Aª 	∆ Credit unio ∆ Agent bar ∆ Electronic	nce institutions $(0-100)$ ons $(0-100)$ iking $(0-100)$ money $(0-100)$ e receipts $(0-100)$			
	90.2 92.9 87.5 0 0 0 0 N/A	∂ Plant prote Export docur Time to prep Cost of expo Trader licens	n and sales (0–100) ection (0–100) ments per shipment (num are export documents (da rt documents in US\$ (% ir ing and membership requ ses and membership in U	nys) ncome per capita) nirements (number)	a)	
	92.9 85.7 90 249.5 (1.8) 15 N/A N/A N/A 78 (0.6) 1 100	Time to obta Cost to obta Validity of co Time to obta Cost to obta Validity of tru Cost to obta Validity of ve	nses (0–100) in company license (days in company license in US ompany license (years) in truck permit (days) in truck permit in US\$ (% i uck permit (years) in vehicle technical inspec- hicle inspection (years) der transportation (0–10	\$ (% income per capita) income per capita) ction in US\$ (% income		
	84.7		84	.7	83	3.3

POLAND

QUALITY CONTROL (d) TRADE (0) OPERATIONS ( $\Delta$ ) The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. High-income countries are not measured under the finance topic.

# **RUSSIAN FEDERATION**

OPERATIONS ( $\Delta$ )

#### EUROPE & CENTRAL ASIA 177 HIGH INCOME

TRADE (0)

67.0 seed	67.6 FERTILIZER	64.7 MACHINERY	N/A <sup>b</sup> Finance	<b>80.4</b> markets	65.7 TRANSPORT
	<ul> <li>5 Procedures</li> <li>716 Time (days)</li> <li>0<sup>a</sup> Cost in US\$</li> <li>71.4 Δ Seed dev</li> <li>67.6 FERTILIZER</li> </ul>	(% income per capita) elopment and certificatio	on (0–100)		
9,059.9	5 Procedures 424 Time (days) (68.6) Cost in US\$ 61.1 ∂ Fertilizer 66.7 ◊ Fertilizer N/A Cost to regis N/A Cost to obta	registration (0–100) (number) (% income per capita) quality control (0–100) import requirements (0– ster as an importer of ferti- in an import permit for fer	ilizer in US\$ (% income		
168.	77.8 60.0∂ Tractor st ◊ Tractor in N/AN/ACost to regis Cost to obta	ealer requirements (0–10 candards and safety (0–1 nport requirements (0–10 ster as an importer of tract in an import permit for tract	00) 00) tors in US\$ (% income <sub>l</sub>		
	<ul> <li>- Δ Credit un</li> <li>- Δ Agent ba</li> <li>- Δ Electronic</li> </ul>	ance institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)			
33.	<ul> <li>75.0 ∂ Plant prot</li> <li>4 Export docu</li> <li>12 Time to prep</li> <li>4 (0.3) Cost of expo</li> <li>0 Trader licen</li> </ul>	on and sales (0–100) tection (0–100) iments per shipment (num oare export documents (da ort documents in US\$ (% in sing and membership requ nses and membership in U	nys) icome per capita) iirements (number)	ta)	
34.	N/ATime to obtaN/ACost to obtaN/AValidity of cN/ATime to obtaN/ACost to obtaN/AValidity of tr6 (0.3)Cost to obta1Validity of volta	enses (0–100) ain company license (days, iin company license in US\$ ompany license (years) ain truck permit (days) ain truck permit in US\$ (% i ruck permit (years) ain vehicle technical inspec ehicle inspection (years) der transportation (0–10	\$ (% income per capita) ncome per capita) stion in US\$ (% income		
68	.8	71.	.3	66	5.0

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . Registering up to five varieties in a year is free of charge. b. High-income countries are not measured under the finance topic.

#### SUB-SAHARAN AFRICA 178 LOW INCOME

TRADE (0)

<b>27.7</b>	61.7 FERTILIZER	41.1 Machinery	59.1 FINANCE	<b>56.3</b> MARKETS	71.4 TRANSPORT
No dat. 14.9 (2.3 66. 73. 29.8 (4.6	$\begin{array}{rcl} & \Delta \mbox{ Seed registration}\\ & Procedures (number )\\ & Time (days)\\ & Cost in US$ (% inc. \\ & \Delta \mbox{ Seed developm}\\ & \hline & FERTILIZER \\ & \Delta \mbox{ Fertilizer regist}\\ & Forcedures (number \\ & Time (days)\\ & Cost in US$ (% inc. \\ & \partial \mbox{ Fertilizer quality}\\ & & \hline & Fertilizer import \\ & Cost to register as \\ & & Cost to obtain an i \\ & & \hline & \end{array}$	er) ome per capita) eent and certification ration (0–100) eer) ome per capita) y control (0–100) t requirements (0–1 an importer of fertin			
<b>59.</b> 61. 73. 87. 72.	3 $\Delta$ Tractor dealer r         3 $\partial$ Tractor standar         7 $\Diamond$ Tractor import r         7 $\Diamond$ Cost to obtain an i         1 <b>FINANCE</b> 9 $\Delta$ Microfinance in         3 $\Delta$ Credit unions (0         1 $\Delta$ Agent banking	import permit for trac 	00)		
No data 0.3 (0.0	Δ Production and           ∂ Plant protection           Export documents           Time to prepare ex           Cost of export doc           Trader licensing and	n (0–100) per shipment (numb port documents (day uments in US\$ (% ind nd membership requi	vs) come per capita)	ta)	
71 71 158.5 (24.4 N/- N/- N/- 29.8 (4.6	<ul> <li>TRANSPORT</li> <li>Δ Truck licenses</li> <li>Time to obtain con</li> <li>Cost to obtain con</li> <li>Validity of compar</li> <li>Time to obtain truck</li> <li>Cost to obtain truck</li> <li>Cost to obtain truck</li> <li>Validity of truck per</li> <li>Cost to obtain veh</li> <li>Validity of vehicle</li> </ul>	npany license (days) npany license in US\$ ny license (years) ck permit (days) ck permit in US\$ (% ir ermit (years) icle technical inspec	(% income per capita ncome per capita) tion in US\$ (% income		
56.1		37.	5	67	7.1

**RWANDA** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The time to obtain document 1 (phytosanitary certificate) is 2 days. The time to obtain document 2 (quality certificate) could not be obtained.

### OECD HIGH INCOME 179 **HIGH INCOME**

TRADE (0)

	6.1 69.6 MACHINERY	N/A <sup>a</sup> finance	<b>90.2</b> markets	97.6 TRANSPORT
SEED         81.3           62.5         6           598         2,841 (9.6)           100         86.1           75.0         1           90         0           100         83.3           N/A         N/A           N/A         69.6           68.8         73.3           66.7         N/A           N/A         N/A           N/A         69.6           68.8         73.3           66.7         N/A           N/A         69.6           90.2         92.9           87.5         0           0         0           97.6         95.2           3.5         50.9 (0.2)           Indefinite <sup>b</sup> N/A           N/A         94.9 (0.3)	SEED         Δ Seed registration (0–100)         Procedures (number)         Time (days)         Cost in US\$ (% income per capita)         Δ Seed development and certificat         FERTILIZER         Δ Fertilizer registration (0–100)         Procedures (number)         Time (days)         Cost in US\$ (% income per capita)         ð Fertilizer registration (0–100)         Procedures (number)         Time (days)         Cost in US\$ (% income per capita)         ð Fertilizer import requirements (0-         Cost to register as an importer of fe         Cost to register as an importer of fe         Cost to obtain an import permit for f         MACHINERY         Δ Tractor dealer requirements (0-         Cost to register as an importer of tra         Cost to register as an import permit for t         FINANCE         Δ Microfinance institutions (0–100)         Δ Gredit unions (0–100)         Δ Agent banking (0–100)         Δ Agent banking (0–100)         Δ Production and sales (0–100)         Δ Production and sales (0–100)         Export documents per shipment (num         Time to prepare export documents in US\$ (%         Trader licensing and membership refe <th>tion (0–100) -100) rtilizer in US\$ (% income p ertilizer in US\$ (% income p ractors in US\$ (% income p s; (% income per capita) (% income p</th> <td>MARKETS</td> <td>TRANSPORT</td>	tion (0–100) -100) rtilizer in US\$ (% income p ertilizer in US\$ (% income p ractors in US\$ (% income p s; (% income per capita) (% income p	MARKETS	TRANSPORT
<sup>7</sup> 100 <b>82.6</b>	Validity of vehicle inspection (years) Cross-border transportation (0–1 86		83	8.3

**SPAIN** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. High-income countries are not measured under the finance topic. b. Has to be validated every 2 years. License is revoked if any of the pre-requirements are not fulfilled.

### **SRI LANKA**

SOUTH ASIA 180 LOWER MIDDLE INCOME

<b>53.6</b> SEED	<b>72.2</b> Fertilizer	40.1 MACHINERY	<b>30.3</b> FINANCE	<b>41.1</b> markets	<b>36.9</b> TRANSPORT
Ę	4 Procedures 298 Time (days) 0 Cost in US\$		on (0–100)		
73.5 (	3Procedures187Time (days)(2.2)Cost in US\$33.3∂ Fertilizer53.3◊ Fertilizer(4.3)Cost to regis	registration (0–100) (number)	ilizer in US\$ (% income j		
7.4 (	26.7 ∂ Tractor st 75.0 ◊ Tractor in (0.2) Cost to regis	ealer requirements (0–10 tandards and safety (0–1 nport requirements (0–10 ster as an importer of trac ain an import permit for trac	00) 00) tors in US\$ (% income p		
6	50.0 Δ Credit un 0 Δ Agent ba 91.7 Δ Electronio	ance institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)			
Ę	25.0 ∂ Plant prot 3 Export docu 4 Time to prep 2 (8) Cost of expo 2 Trader licen	on and sales (0–100) tection (0–100) iments per shipment (num pare export documents (da prt documents in US\$ (% ir sing and membership requ nses and membership in U	nys) ncome per capita) nirements (number)	)	
3	36.9TRANSPOR73.8∆ Truck liceN/ATime to obtaN/ACost to obtaN/AValidity of c1.5Time to obta(3.0)Cost to obta1Validity of ti(0.4)Cost to obta1Validity of v1Validity of v		) \$ (% income per capita) income per capita) ction in US\$ (% income p		
E0 4		45	•		

 52.3
 45.0
 42.8

 OPERATIONS (Δ)
 QUALITY CONTROL (ð)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .

#### **SUB-SAHARAN AFRICA** 181 LOWER MIDDLE INCOME

TRADE (0)

<b>76.6</b> seed	FEI	<b>3.3</b> RTILIZER	<b>45.9</b> MACHINERY	27.1 FINANCE	<b>61.6</b> MARKETS	65.7 TRANSPORT
12,554.3	<b>76.6</b> 53.1 5 654 (721.5) 100	Procedures (i Time (days) Cost in US\$ (	stration (0–100) number) % income per capita) lopment and certificati	on (0–100)		
82	<b>63.3</b> 80.0 4 29 5.9 (3.8) 66.7 <b>43.3</b> 2.4 (4.7) 3.0 (1.9)	Procedures ( Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer ir Cost to regist	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0– ter as an importer of fer n an import permit for fe	tilizer in US\$ (% income		
	<b>45.9</b> 50.0 44.4 43.3 2.4 (4.7) 3.0 (1.9)	∂ Tractor sta ◊ Tractor im Cost to regist	aler requirements (0–1 andards and safety (0– port requirements (0–1 ter as an importer of trac n an import permit for trac	100) 00) stors in US\$ (% income		
	<b>27.1</b> 85.7 0 50.0 0	∆ Credit unio ∆ Agent ban ∆ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)	)		
	<b>61.6</b> 85.7 37.5 2 1.9 (2.4) 0 N/A	O Plant prote Export docum Time to prepa Cost of expon Trader licens	n and sales (0–100) ection (0–100) ments per shipment (num are export documents (d rt documents in US\$ (% i ing and membership req ses and membership in L	ays) ncome per capita) uirements (number)	ta)	
205.	65.7 60.0 N/A N/A N/A N/A N/A 9 (11.8) 1 71.4	TRANSPORT △ Truck licer Time to obtai Cost to obtai Validity of co Time to obtai Cost to obtai Validity of tru Cost to obtai Validity of ve		s) \$ (% income per capita) income per capita) ection in US\$ (% income	)	
63	<b>3.2</b>		49	.5	52	2.7

**SUDAN** 

OPERATIONS ( $\Delta$ )

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a A. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d. a. The time to obtain document 1 (phytosanitary certificate) is 7 days. The time to obtain document 2 (fumigation certificate) could not be obtained.

# TAJIKISTAN

OPERATIONS ( $\Delta$ )

EUROPE & CENTRAL ASIA 182 LOWER MIDDLE INCOME

TRADE (0)

56.7 SEED F	<b>40.6</b> ERTILIZER	47.8 MACHINERY	<b>32.0</b> FINANCE	<b>74.1</b> markets	78.6 TRANSPORT
56.7 56.3 No data No data No data 57.1 40.6 55.0 No data No data No data No data No data 0 66.7 N/A N/A 47.8 50.0 26.7 66.7 N/A 32.0 95.2 40.0	B $\Delta$ Seed regisaProcedures ( Time (days))aCost in US\$ ( $\Delta$ Seed deveb $\Delta$ Seed devecFERTILIZERa $\Delta$ Fertilizer r Procedures ( Time (days))aCost in US\$ ( $\Delta$ Fertilizer r Cost in US\$ ( $\Delta$ Fertilizer r Cost to regis Cost to obtaibAbAcAcAcAcAcCost to regis Cost to obtaicACACACACCost to regis Cost to regis Cost to obtaiCACCost to regis Cost to obtaiCCost to regis Cost to obtaiCFINANCECACACACAACost to regis Cost to obtai	% income per capita) elopment and certification egistration (0–100) number) % income per capita) juality control (0–100) mport requirements (0–100) mport requirements (0–100) andards and safety (0–100) andards and safety (0–100) port requirements (0–100) ter as an importer of traction in an import permit for traction mode institutions (0–100)	100) ilizer in US\$ (% income tilizer in US\$ (% income 00) 00) tors in US\$ (% income p ctors in US\$ (% income	e per capita)	
25.0 25.0 74.1 85.7 62.5 62.9 (5.9) 0 N/A	<ul> <li>Δ Electronic</li> <li>Δ Warehous</li> <li>Δ Warehous</li> <li>Δ Production</li> <li>δ Plant prote</li> <li>Export docum</li> <li>Time to preparation</li> <li>Cost of expon</li> <li>Trader licens</li> </ul>	king $(0-100)$ money $(0-100)$ e receipts $(0-100)$ n and sales $(0-100)$ ection $(0-100)$ ments per shipment (num are export documents (da rt documents in US\$ (% ir ing and membership requ ses and membership in U	nys) ncome per capita) nirements (number)		
<b>78.6</b> 85.7 30 111.0 (10.5) 5.0 <sup>4</sup> N/A N/A 138.8 (13.1) 1 71.4	TRANSPORT         Δ Truck licer         Time to obtai         Cost to obtai         Validity of co         Time to obtai         Cost to obtai         Cost to obtai         Validity of co         Cost to obtai         Validity of tru         Cost to obtai         Validity of ve		) \$ (% income per capita) ncome per capita) ction in US\$ (% income		
60.9		29	.7	68	3.3

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a Δ. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a δ. According to the Law On Production and Safe Use of Pesticides and Agrochemicals (03/07/2012), quality control is not regulated. b. Not less than 5 years.

### TANZANIA

SUB-SAHARAN AFRICA 183 LOW INCOME

<b>71.9</b>	<b>75.0</b> Fertilizer	51.4 MACHINERY	74.2 FINANCE	<b>54.5</b> markets	67.9 TRANSPORT
652.1	6 Procedure 333 Time (day (70.1) Cost in US	egistration (0–100) es (number) rs) S\$ (% income per capita) evelopment and certificati	on (0–100)		
	5Procedure578.5Time (day064.5)Cost in US100∂ Fertilize65.0◊ Fertilizeo dataCost to reo dataCost to ob	er registration (0–100) es (number)	tilizer in US\$ (% income		
	33.3∂ Tractor83.3◊ TractorN/ACost to re	RY dealer requirements (0–1 standards and safety (0– import requirements (0–1 gister as an importer of trac btain an import permit for tra	100) 00) ctors in US\$ (% income <sub>l</sub>		
	100         Δ Credit t           87.1         Δ Agent t           25.0         Δ Electro	nance institutions (0–100 unions (0–100) panking (0–100) nic money (0–100) puse receipts (0–100)	)		
	<ul> <li>37.5 ∂ Plant pi</li> <li>4 Export do</li> <li>13 Time to pi</li> <li>(4.2) <sup>a</sup> Cost of ex</li> <li>1 Trader lice</li> </ul>	tion and sales (0–100) rotection (0–100) cuments per shipment (nun repare export documents (d cort documents in US\$ (% i ensing and membership req censes and membership in U	ays) ncome per capita) uirements (number)	ta)	
47.	67.9TRANSPO64.3Δ Truck liN/ATime to orN/ACost to obN/AValidity or3Time to or4 (5.1)Cost to ob1Validity or6 (3.2)Cost to ob1Validity or1Validity or		s) \$ (% income per capita) income per capita) ection in US\$ (% income		



The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The total cost excludes the cost of document 3 (radioactivity analysis certificate), which is approximately 0.3% of the FOB value of the goods exported.

### EUROPE & CENTRAL ASIA 184 UPPER MIDDLE INCOME

<b>76.6</b>		<b>6.7</b> RTILIZER	54.3 MACHINERY	79.7	<b>69.6</b> MARKETS	83.3 TRANSPORT		
3,367.	<b>76.6</b> 78.1 6 646 3 (31.0) <b>75</b> <b>66.7</b>	Procedures (I Time (days) Cost in US\$ (	etration (0–100) number) % income per capita) lopment and certificatio	on (0–100)				
	70.0 3 50 0.7 (1.7) 50.0 80.0 No data No data	<ul> <li>△ Fertilizer ra Procedures (i Time (days) Cost in US\$ ( ∂ Fertilizer q ◊ Fertilizer in Cost to regist</li> </ul>	egistration (0–100) number) % income per capita) uality control (0–100) nport requirements (0– ter as an importer of fert n an import permit for fer	ilizer in US\$ (% income				
	<b>54.3</b> 46.3 50.0 66.7 <i>N/A</i> <i>N/A</i>	<ul> <li>MACHINERY</li> <li>△ Tractor dealer requirements (0–100)</li> <li>∂ Tractor standards and safety (0–100)</li> <li>◊ Tractor import requirements (0–100)</li> <li>Cost to register as an importer of tractors in US\$ (% income per capita)</li> <li>Cost to obtain an import permit for tractors in US\$ (% income per capita)</li> </ul>						
	<b>79.7</b> N/A <sup>a</sup> 60.0 N/A <sup>a</sup> 79.2 100	<b>FINANCE</b> $\Delta$ Microfinance institutions (0–100) $\Delta$ Credit unions (0–100) $\Delta$ Agent banking (0–100) $\Delta$ Electronic money (0–100) $\Delta$ Warehouse receipts (0–100)						
	<b>69.6</b> 64.3 75.0 3 3 19 (0.2) 1 0	∂ Plant prote Export docun Time to prepa Cost of expor Trader licens	n and sales (0–100) ection (0–100) nents per shipment (num are export documents (da rt documents in US\$ (% ir ing and membership requ ses and membership in U	ays) ncome per capita) uirements (number)	a)			
	<b>83.3</b> <b>81.0</b> <i>4</i> <i>5</i> (39.5) <i>5</i> <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>N/A</i> <i>2.7</i> (1.3) <i>1</i> <b>85.7</b>	TRANSPORTΔ Truck licenses (0-100)Time to obtain company license (days)Cost to obtain company license in US\$ (% income per capita)Validity of company license (years)Time to obtain truck permit (days)Cost to obtain truck permit in US\$ (% income per capita)Validity of truck permit (years)Cost to obtain vehicle technical inspection in US\$ (% income per capita)Validity of vehicle inspection (years)◊ Cross-border transportation (0-100)						
69	9.6		58	.3	77	7.5		

 OPERATIONS (Δ)
 QUALITY CONTROL (δ)
 TRADE (◊)

 The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a Δ. The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a δ. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a φ.

 a. Upper-middle-income countries are not measured under the microfinance institutions indicator and agent banking indicator.

#### SUB-SAHARAN AFRICA 185 LOW INCOME

UGANDA

<b>44.2</b> seed	<b>56.4</b> Fertilizer	51.0 MACHINERY	46.3 FINANCE	<b>58.9</b> MARKETS	75.0 TRANSPORT
:	5 Procedures ( 523 Time (days) 0 <sup>3</sup> Cost in US\$ ( 57.1 Δ Seed deve 56.4 FERTILIZER	% income per capita) lopment and certificationers egistration (0–100)	n (0–100)		
379.8 (5 !	<ul> <li>i8.9) Cost in US\$ (</li> <li>i0.66.7 do Fertilizer q</li> <li>i0.7.5 vo Fertilizer ir</li> <li>i7.5) Cost to regis</li> <li>i0.7.5 cost to obtai</li> <li>i0.7.5 MACHINERY</li> </ul>	% income per capita) uality control (0–100) nport requirements (0– ter as an importer of ferti n an import permit for fer	ilizer in US\$ (% income tilizer in US\$ (% income		
5	13.3 ∂ Tractor sta 33.3 ◊ Tractor im N/A Cost to regis	aler requirements $(0-10)$ andards and safety $(0-1)$ port requirements $(0-10)$ ter as an importer of tract n an import permit for tra	00) 10) tors in US\$ (% income p		
2	40.0 $\Delta$ Credit unio0 $\Delta$ Agent ban25.0 $\Delta$ Electronic	nce institutions (0–100) ons (0–100) king (0–100) money (0–100) e receipts (0–100)			
No	D2.9     ∆ Production       25.0     ∂ Plant prote       4     Export docur       data     Time to prepare       data     Cost of export       1     Trader licens	n and sales (0–100) ection (0–100) nents per shipment (num are export documents (da rt documents in US\$ (% in ing and membership requ ses and membership in US	ys) come per capita) irements (number)	a)	
	N/ATime to obtaiN/ACost to obtaiN/AValidity of co1Time to obtai(6.3)Cost to obtai	nses (0–100) in company license (days, n company license in US\$ mpany license (years) in truck permit (days) n truck permit in US\$ (% i	(% income per capita)		
76 (1 	<ul> <li>1.5) Cost to obtai</li> <li>1 Validity of ve</li> <li>71.4 ◊ Cross-bore</li> </ul>	ick permit (years) n vehicle technical inspec hicle inspection (years) ler transportation (0–10 <b>25</b>	0)		ן א

# 6U.5 35.0 /0.8 OPERATIONS (Δ) QUALITY CONTROL (∂) TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ . In practice, the National Agriculture Research Organization (NARD), which is in charge of registration , has not been charging fees for these procedures.

### EUROPE & CENTRAL ASIA 186 LOWER MIDDLE INCOME

<b>74.1</b> seed	<b>80.6</b> Fertilizer	62.7 MACHINERY	41.6 FINANCE	<b>86.6</b> MARKETS	65.7 TRANSPORT
1,136.4	6 Procedure 714 Time (days (31.9) Cost in US		on (0–100)		
25,537.2 (	5 Procedures 325 Time (days 717.3) Cost in US 100 ∂ Fertilize 66.7 ◊ Fertilize N/A Cost to reg	r registration (0–100) s (number)	tilizer in US\$ (% income		
	77.8 ∂ Tractor s 66.7 ◊ Tractor i <i>N/A Cost to reg</i>	Y dealer requirements (0–1 standards and safety (0– mport requirements (0–1 vister as an importer of trac tain an import permit for trac	100) 00) stors in US\$ (% income		
	40.0         Δ Credit u           42.9         Δ Agent b           25.0         Δ Electron	nance institutions (0–100) nions (0–100) anking (0–100) nic money (0–100) use receipts (0–100)	)		
31.	86.6     MARKETS       85.7     Δ Product       87.5     ∂ Plant product       3     Export doc       5     Time to product       2 (0.9)     Cost of export doc       0     Trader lice		ays) ncome per capita) uirements (number)	ta)	
39.	65.7TRANSPOI60.0Δ Truck licN/ATime to obN/ACost to obiN/AValidity ofN/ATime to obN/ACost to obiN/ACost to obiN/ACost to obiN/ACost to obiN/AValidity of3 (1.1)Cost to obi1Validity of		s) \$ (% income per capita) income per capita) ction in US\$ (% income		
63	.4	88	.4	68	3.3

OPERATIONS ( $\Delta$ ) QUALITY CONTROL (d) TRADE (0) The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

### **VIETNAM**

OPERATIONS ( $\Delta$ )

### EAST ASIA & PACIFIC 187 LOWER MIDDLE INCOME

TRADE (0)

62.5 SEED	<b>70.0</b> Fertilizer	24.4 MACHINERY	45.3 FINANCE	<b>80.4</b> markets	54.8 TRANSPORT
8,050.8 (4	6 Procedures 901 Time (days) 26.0) Cost in US\$ 62.5 Δ Seed dev 70.0 FERTILIZER	(% income per capita) relopment and certificatio	n (0–100)		
	3       Procedures         15       Time (days)         (2.6)       Cost in US\$         100       ∂ Fertilizer         50.0       ◊ Fertilizer         N/A       Cost to regi         (1.1)       Cost to obta	(number) (% income per capita) quality control (0–100) import requirements (0–1 ster as an importer of ferti ain an import permit for fer	lizer in US\$ (% income		
	6.7 ∂ Tractor s 66.7 ◊ Tractor in N/A Cost to regi	Y lealer requirements (0–10 tandards and safety (0–1 nport requirements (0–10 ster as an importer of tract ain an import permit for tra	00)  0) tors in US\$ (% income		
	$\begin{array}{rrr} 71.4 & \Delta \mbox{ Microfina} \\ 80.0 & \Delta \mbox{ Credit un} \\ 0 & \Delta \mbox{ Agent ba} \\ 75.0 & \Delta \mbox{ Electroni} \end{array}$	ance institutions (0–100) ions (0–100) nking (0–100) c money (0–100) se receipts (0–100)			
38.5	85.7     Δ Production       75.0     ∂ Plant properties       2     Export document       3     Time to preproperties       (2.0)     Cost of exponent       1     Trader licent	on and sales (0–100) tection (0–100) iments per shipment (num pare export documents (da ort documents in US\$ (% in sing and membership requ nses and membership in U	ys) come per capita) irements (number)	a)	
	<ul> <li>3 Time to obt</li> <li>(0.5) Cost to obta</li> <li>7 Validity of c</li> <li>N/A Time to obt</li> <li>N/A Cost to obta</li> <li>N/A Validity of t</li> <li>(0.9) Cost to obta</li> <li>0.5 Validity of v</li> </ul>	T enses (0–100) ain company license (days, ain company license in US\$ company license (years) ain truck permit (days) ain truck permit in US\$ (% i ruck permit (years) ain vehicle technical inspec rehicle inspection (years) rder transportation (0–10	s (% income per capita) ncome per capita) stion in US\$ (% income		
55.	7	60.	6	48	3.4

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a d. The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a d.

### SUB-SAHARAN AFRICA 188 LOWER MIDDLE INCOME

<b>70.3</b> seed	56.7 FERTILIZER	<b>39.2</b> MACHINERY	51.3 FINANCE	<b>61.6</b> MARKETS	67.9 TRANSPORT
1,045.0	5 Proced 544 Time (c (59.4) Cost in	US\$ (% income per capita) development and certificati	on (0–100)		
4,249.8 (. 183.0	40.0         Δ Ferti           4         Proced           211         Time (c           241.5)         Cost in           66.7         ∂ Fertil           63.3         ◊ Fertil           0         Cost to	lizer registration (0–100) ures (number) lays) US\$ (% income per capita) izer quality control (0–100) izer import requirements (0– register as an importer of fer obtain an import permit for fe	tilizer in US\$ (% income		
	13.3         ∂ Tract           66.7         ◊ Tract           N/A         Cost to	NERY — (0-1 or standards and safety (0- or import requirements (0-1 register as an importer of trac obtain an import permit for trac	100) 00) ctors in US\$ (% income µ		
	40.0         Δ Cred           0         Δ Ager           50.0         Δ Elect	CE finance institutions (0–100) it unions (0–100) it banking (0–100) ronic money (0–100) shouse receipts (0–100)			
190.6	<ul> <li>37.5 ∂ Plant</li> <li>5 Export</li> <li>11 Time to</li> <li>(10.8) Cost of</li> <li>0 Trader</li> </ul>	TS protection (0–100) documents per shipment (num prepare export documents (d export documents in US\$ (% in licensing and membership req licenses and membership in U	ays) ncome per capita) uirements (number)	a)	
	67.9         TRANS           50.0         Δ Truc           N/A         Time to           N/A         Cost to           N/A         Validity           90         Time to           51.0)         Cost to           1         Validity           2 (0.3)         Cost to           1         Validity		s) \$ (% income per capita) income per capita) ection in US\$ (% income		
PP		20		71	

ZAMBIA

 55.8
 39.2
 71.9

 OPERATIONS (Δ)
 QUALITY CONTROL (δ)
 TRADE (◊)

The operations score is an average of seed, fertilizer, machinery, finance, markets and transport indicator scores indicated with a  $\Delta$ . The quality control score is an average of seed, fertilizer, machinery and markets indicator scores indicated with a  $\partial$ . The trade score is an average of fertilizer, machinery and transport indicator scores indicated with a  $\partial$ .