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# **Indonesia**

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**OVERVIEW**

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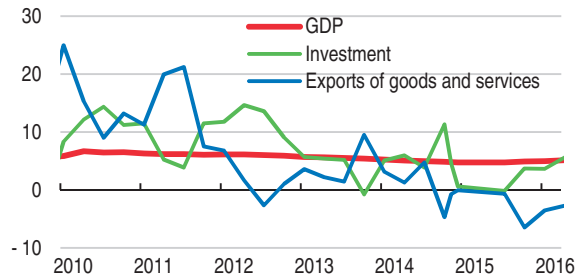
## Executive summary

- *The policy framework has been improving rapidly*
- *Boosting the efficiency of public spending would free up resources for more productive uses*
- *The performance of sub-national governments could be improved*


## The policy framework has been improving rapidly

### Economic growth has slowed

Year-on-year % growth, volumes



Source: OECD Economic Outlook database.

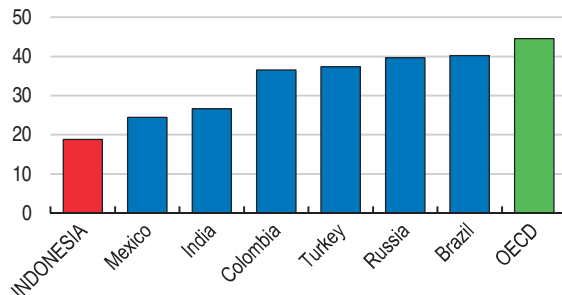
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Indonesia has made great strides in improving its economic and social outcomes. Despite a weak global context and lower export prices, growth has remained relatively robust. Policy has appropriately shifted towards strengthening product markets, improving the business climate and reducing corruption. The fiscal position remains in good shape, in part thanks to energy subsidy reform. Poverty is also being addressed by expanding various social programmes, but food policies do not do enough to protect the most vulnerable. And subsidies and poor regulation, especially in energy and forestry, continue to distort activity and undermine environmental outcomes.


## Boosting the efficiency of public spending would free up resources for more productive uses

### The government is small

Government spending in % of GDP, 2014 or latest



Source: OECD Government at a Glance 2015.

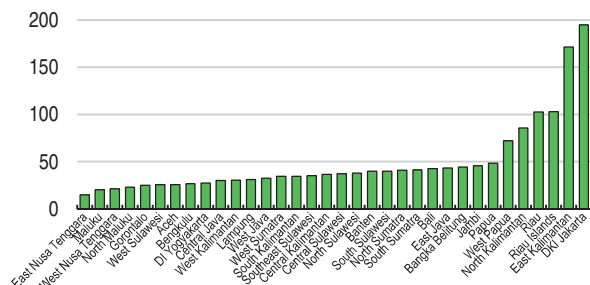
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Public spending and taxation are low, even in comparison with other countries at similar levels of development. Increasing revenues is a priority to fund needed infrastructure and social programmes. In addition, strengthening public-sector governance and capacity (notably at the sub-national level) and reallocating expenditure away from personnel and subsidies would raise the efficiency of public spending and make it more inclusive. Increased government spending, specifically capital spending linked to government-led infrastructure projects, has provided recent fiscal stimulus.


## The performance of sub-national governments could be improved

### Inequality across provinces is large

% of national GDP per capita, 2014



Source: Statistics Indonesia.

StatLink  <http://dx.doi.org/10.1787/888933420754>

Decentralisation, which began in 1998, has brought government closer to the people. However, large inter-regional disparities persist, suggesting that best practices have not been fully adopted. In some regions governance remains weak and rent seeking is widespread, and in many cases incentives are poor. In the short term more direction from the central government can help, but the fundamental solution is to strengthen the capacity of sub-national governments over time.

MAIN FINDINGS	KEY RECOMMENDATIONS
<b>Setting macro policies for stable and sustainable growth</b>	
<i>Sound macroeconomic policy frameworks have allowed impressive performance, but important challenges remain.</i>	
Growth is likely to continue at a near-5% pace, although downside risks predominate, mainly on the external side.	If growth disappoints, employ a prudent monetary response to stabilise output without endangering financial stability.
Tax revenues are low, even relative to peer countries, which is constraining the government's role in the development.	Raise revenue by increasing the number of taxpayers through better compliance and improving the efficiency of tax collection.
<b>Facilitating structural change</b>	
<i>To accelerate structural change towards high-value-added, high-productivity sectors, fundamental reforms are required.</i>	
Employment protection discourages formal jobs and skills investment and reinforces labour-market segmentation.	Reduce impediments to hiring and dismissal, and provide incentives for investment in skills.
Despite good progress, corruption is still holding back growth and well-being.	Continue the fight against corruption by all means. Support the Corruption Eradication Commission (KPK), and provide it with more resources and authority.
<b>Ensuring the sustainability and inclusiveness of economic growth</b>	
<i>Environmental, health and other issues remain serious impediments to sustainability and inclusiveness.</i>	
Energy subsidies represent about 7% of public spending. They encourage pollution-intensive activities and are poorly targeted. Coal-fired power generation is still expanding.	Phase out all remaining energy subsidies. To meet rising power needs, invest in low-carbon generating capacity, including renewables and geothermal sources.
Deforestation continues, as enforcement of laws against clearing forest land by burning is poor.	Tighten and strengthen enforcement of laws on forest clearing. Improve productivity in the palm oil and timber industries.
Food resilience measures often protect large and inefficient farmers, to the detriment of low-income consumers. Food prices tend to be relatively high and volatile.	Liberalise the importation of food. Refocus National Logistics Agency (BULOG) activities on managing emergency supplies. Phase out fertiliser subsidies.
Poor nourishment and exposure to disease have left over one third of all children under five stunted.	Expand existing programmes to tackle stunting, including by encouraging breastfeeding.
<b>Enhancing regional development</b>	
<i>Large inter-regional disparities persist. Regional development is increasingly determined by sub-national governments.</i>	
The administrative burden on firms varies significantly across regions.	Work with the sub-national governments to move the regulation of business to best practice.
More special economic zones (SEZs) are to be established, in spite of their limited success to date.	Experiment with different incentives in special economic zones, including more flexible labour regulation, with a view to extending proven good practices to the whole economy.
Sub-national governments, which now account for half of all public spending, often underspend their budgets, impeding infrastructure investment in particular.	Expand assistance to help regions to improve budget planning and implementation capacity. In the interim, make greater use of special allocation funds to prioritise sub-national spending.

MAIN FINDINGS	KEY RECOMMENDATIONS
<b>Boosting the efficiency of public spending</b>	
<i>Increasing the efficiency of public spending would allow more resources to be allocated to priority areas.</i>	
Government spending in key areas is shaped by performance-specific targets: for example, 20% for education and 5% for health. While this provides ring-fencing, controls on how funds are spent are inadequate.	Move ahead with the implementation of performance-based budgeting (“money follows the programme”). Improve evaluation of existing and future programmes, and reinforce links with medium-term objectives.
Central government transfers cover the entire cost of sub-national governments’ public service payroll.	Revise the system of transfers from central to sub-national governments to remove the link with payroll.

## Assessment and recommendations

- *Recent macroeconomic outcomes and short-term prospects*
- *Equality and inclusiveness*
- *Advancing industrialisation by getting the fundamentals right*
- *Promoting regional development*
- *Improving public spending*
- *Ensuring food resilience*
- *Deforestation and other environmental challenges*



Over the past half century Indonesia has made remarkable progress across a broad range of economic and social dimensions. In general, health, education and other social outcomes have never been better, and higher standards of living are being enjoyed by more and more Indonesians. Over the past two decades democracy has taken hold, and bold strides in decentralisation have brought government closer to the people. As a member of the G20, Indonesia is actively engaged in world affairs, and economic integration with regional ASEAN (Association of Southeast Asian Nations) partners is moving ahead. Indonesia has strong growth potential: its population is young, the domestic market is large, it has a rich endowment of natural resources, public debt is low, and its political system is broad-based and stable.

The challenges for the years ahead are to diversify the economy by enhancing the nation's human resources, thereby allowing skill- and labour-intensive sectors of the economy to flourish, and to ensure that living standards and well-being rise for all Indonesians. The key messages of this *Survey* are:

- Indonesia's policy is moving in the right direction to meet the challenges the country faces. Monetary and fiscal frameworks are strong. The government is advancing policy reforms to reduce impediments to doing business, improve the regulation of investment, shift budget resources away from subsidies to social security, health and infrastructure, and rationalise foreign investment rules.
- The “big-bang” decentralisation that accompanied democratisation has proven to be very popular and has brought government closer to the people. To take full advantage of this initiative, however, the capacity of many sub-national governments needs to be strengthened: a task that will take some time.
- Public spending and taxation are low, even compared with countries at similar levels of development. Increasing revenues is a priority, but there remains substantial scope to improve the efficiency and effectiveness of public spending at all levels of government.

### Recent macroeconomic outcomes and short-term prospects

Low commodity prices and persistently weak external demand reduced GDP growth in Indonesia through 2015 (Table 1 and Figure 1). The fragile rupiah – which has depreciated by over one third against the US dollar over the past five years – and above-target inflation constrained the degree to which monetary policy could support activity. As exports weakened the current account deteriorated, further pressuring the rupiah (Figure 2). The authorities have taken measures to better manage foreign exchange to try to shore up the currency, including allowing more options for hedging.

The end of the commodities super cycle in early 2011 and weaker global growth (including in Indonesia's biggest export markets: Japan, China, the United States, India and Korea) have reduced fossil fuel, metal and agricultural export volumes and prices. Six of Indonesia's top eight exports, accounting for 45% of goods exports, fall into these categories: palm oil, coal, natural gas, crude oil, rubber and copper (Figure 3). The impact of the fall in

Table 1. Selected indicators for Indonesia

	1995	2000	2005	2010	2013	2014	2015
<b>Population</b>							
Total, million	205.9	208.9	224.5	240.7	249.9	252.8	255.5
Age distribution (%)							
0-14	33.6	30.7	30.0	29.8	28.9	27.6	27.3
15-65	62.2	64.7	65.1	65.2	65.9	67.2	67.3
65+	4.2	4.7	4.9	5.0	5.2	5.3	5.4
Absolute poverty rate (%) <sup>1</sup>		19.1	16.0	13.3	11.4	11.1	11.2
Gini coefficient <sup>1</sup>		0.30	0.36	0.38	0.41	0.41	0.41
Net enrolment ratio (secondary education, %)				60.0	70.8		
<b>Employment and inflation</b>							
Employment (million)	80.1	89.8	95.4	109.6	112.8	114.6	114.8
Informal employment, % of employment			70.5	68.4	60.1	59.6	57.8
Unemployment rate (%)	7.2	6.1	10.5	7.0	6.2	5.9	6.2
Inflation (CPI, end of year, %)	9.0	9.3	17.1	7.0	7.7	8.4	3.4
<b>Supply and demand</b>							
GDP (in current trillion IDR)	546.4	1 520.7	3 035.6	6 864.1	9 524.7	10 565.8	11 540.8
GDP (in current billion USD)	243.6	182.4	313.2	756.2	916.8	890.7	863.1
GDP growth rate (real, in %)	8.2	4.9	5.7	6.4	5.6	5.0	4.8
GDP growth rate (real, in per capita terms, %)	6.1	5.1	4.2	4.9	4.3	3.8	3.7
Demand (growth in %)							
Private consumption	12.6	1.6	4.0	4.1	5.4	5.3	4.9
Public consumption	1.3	6.5	6.6	4.0	6.9	2.0	4.4
Gross fixed investment	10.3	10.8	9.5	11.5	3.9	6.3	2.3
Exports	14.0	16.7	10.9	6.7	5.3	4.1	5.3
Imports	7.7	26.5	16.6	15.3	4.2	1.0	-2.0
Supply (in % of nominal GDP)							
Agriculture		14.3	13.1	14.3	13.7	13.7	14.0
Mining		11.0	11.1	10.7	11.3	10.1	7.9
Manufacturing		25.4	27.4	22.6	21.6	21.5	21.5
Services <sup>2</sup>		49.4	48.3	52.3	53.4	54.7	56.7
<b>Public finances (in % of GDP)<sup>3</sup></b>							
Revenue	13.1	13.5	16.3	14.5	15.1	14.7	13.0
Expenditure	12.0	14.6	16.8	15.2	17.3	16.8	15.6
Nominal balance	1.1	-1.1	-0.5	-0.7	-2.2	-2.1	-2.6
Gross debt (general government)		81.1	43.3	24.5	24.9	24.7	26.8
<b>Balance of payments (in % of GDP)</b>							
Trade balance (goods)	2.7	13.7	5.6	4.1	0.6	0.8	1.5
Current account balance	-2.6	4.9	0.1	0.7	-3.2	-3.1	-2.0
In USD billion	-6.4	8.0	0.3	5.1	-29.1	-27.5	-17.7
International reserves (gross, USD billion)			34.7	96.2	99.4	111.9	105.9
Outstanding external debt		77.7	41.7	26.8	29.0	32.8	36.0

1. Based on per capita expenditure. The Gini index has a range from zero (when everybody has identical incomes) to one (when all income goes to only one person). Increasing values of the Gini coefficient thus indicate higher inequality in the distribution of income. Absolute poverty is the percentage of people below the national poverty line, where the latter is the value of per capita expenditure per month needed for a person to enjoy decent living conditions.

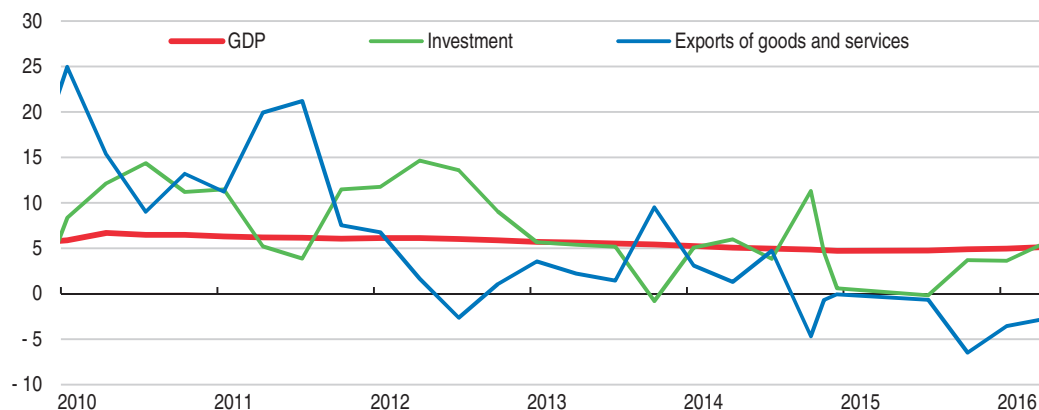
2. Includes electricity, gas, water and construction.

3. Central government unless otherwise noted.

Source: Statistics Indonesia; Indonesian government financial statement (audited); World Bank; OECD estimates.

commodity prices has been partly offset by the falling rupiah, in line with other so-called commodity currencies such as the Malaysian ringgit (which has depreciated by around one fifth over the past five years), the Australian dollar (about one third) and the South African rand (more than one half) (Figure 4, Panel A). At the same time high rates of inflation has meant much smaller gains in competitiveness, limiting the boost to exports (Panel B).

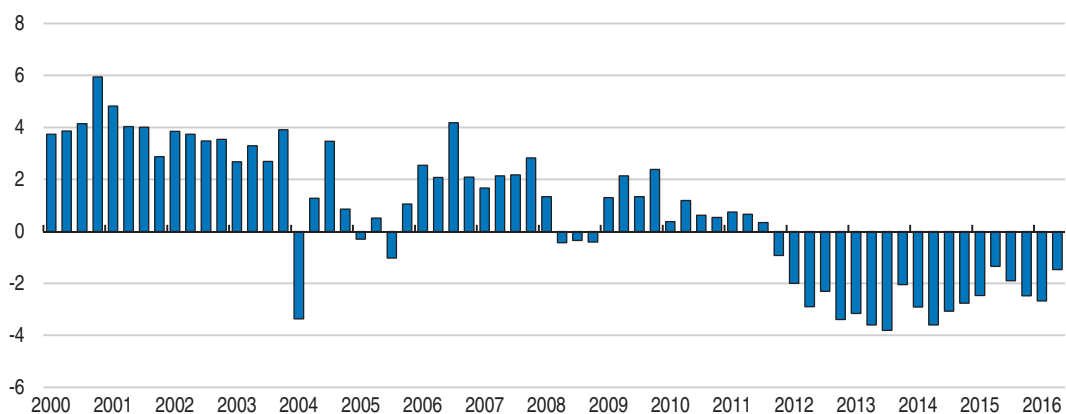
**Figure 1. Components of GDP growth**  
Year-on-year % growth, volumes



Source: OECD Economic Outlook database.

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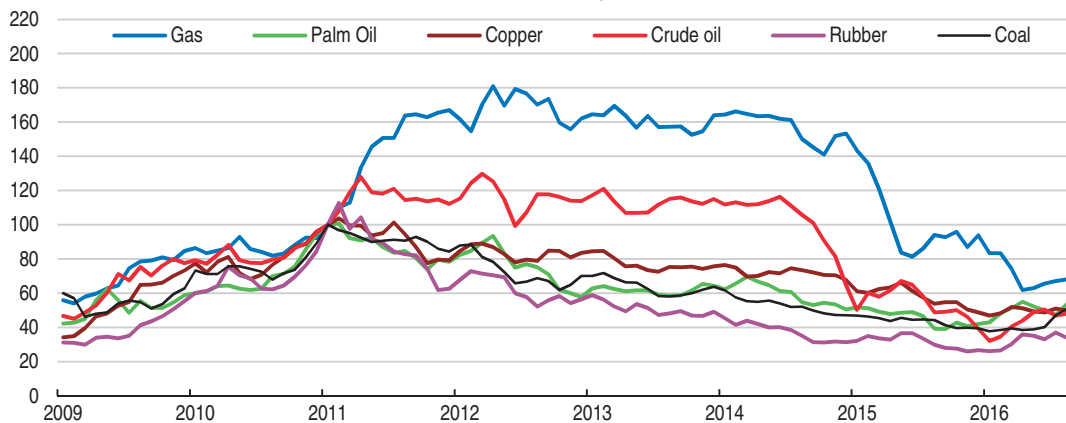
**Figure 2. Current account balance**  
% of GDP



Source: OECD Economic Outlook database.

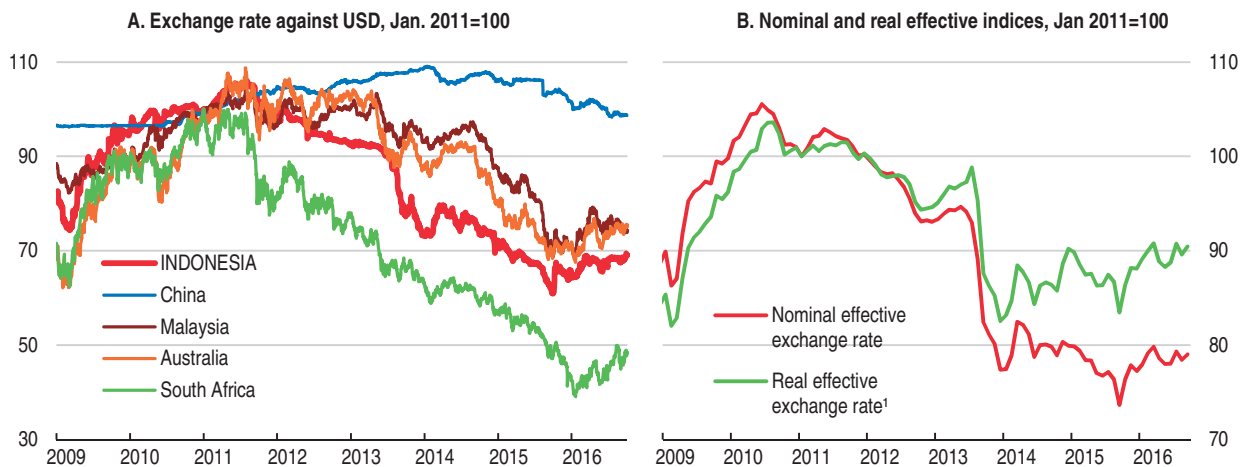
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**Figure 3. Prices of selected commodities**  
US dollars, index January 2011 = 100.




Source: IMF Commodity Price database.

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Figure 4. **The market exchange rate and the real effective exchange rate**

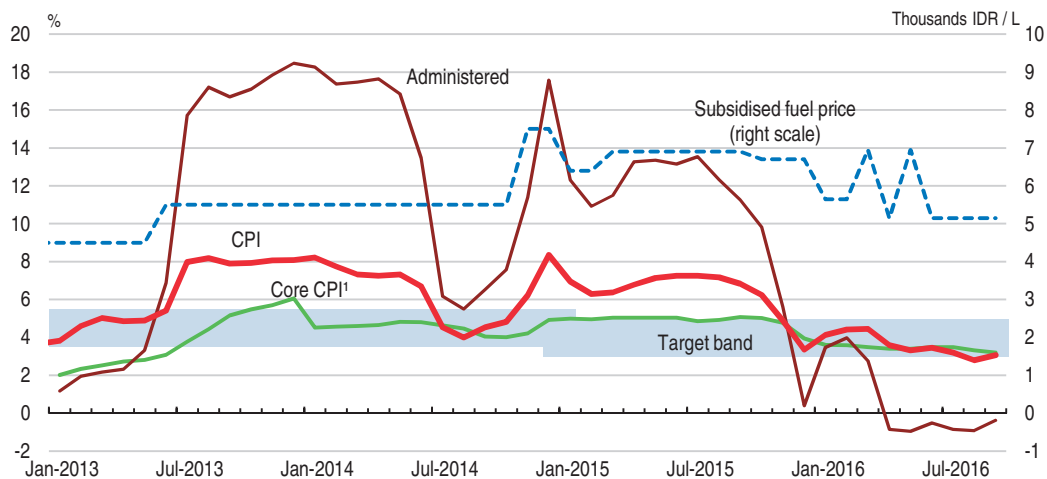
1. Effective exchange rate deflated by the CPI.

Source: Thomson Reuters; OECD Economic Outlook database.

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While core inflation has been stable over the past few years, headline inflation exceeded Bank Indonesia's (BI) target range for much of 2015 (4±1%) – driven by large increases in food and administered prices (subsidised fuels, electricity, transport fares) – before dipping back into it this year. However, inflation for administered-price items has fallen dramatically, as the government has passed through lower energy prices to consumers by cutting transport fares and electricity prices. On the other hand, retail fuel prices have not fallen to the same extent as world crude prices, as subsidies were removed. By January 2016 inflation had fallen back within the target range (Figure 5), and the rupiah staged a rebound against the dollar (Figure 4).

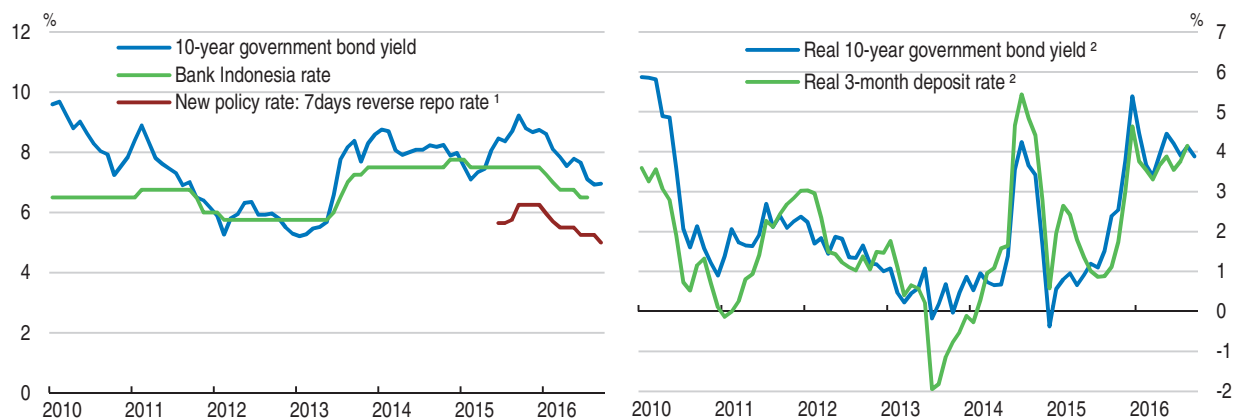
On the back of the inflation moderation, the stabilisation of the exchange rate and a return to a more sustainable external balance, BI has cut interest rates five times since

Figure 5. **The components of CPI inflation and the inflation target**

1. The core measure of inflation excludes volatile foods and administered prices.

Source: Bank Indonesia.

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Figure 6. **Official and long-term interest rates, nominal and real**

1. As of 19 August 2016 Bank Indonesia switched to a new policy rate known as the BI 7-Day Reverse Repurchase (repo) Rate.

2. Deflated with year-on-year CPI inflation rate.

Source: Thomson Reuters; OECD Economic Outlook database; Bank Indonesia.

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January 2016, each time by 25 basis points, taking the (new) official rate down to 5.0% (Figure 6, Panel A). In addition, BI also reduced the rupiah-denominated primary reserve requirement by 100 points. Adjustments were also made to the macro-prudential framework to encourage lending. In August 2016 the Bank changed from targeting the 12-month rate to the 7-day reverse repo rate to improve the monetary policy transmission mechanism. Nevertheless, real interest rates in Indonesia remain high (Panel B).

GDP growth is expected to continue to pick up over the course of 2016 and into 2017 (Table 2). Despite persistently weak external conditions, confidence is returning, with

Table 2. **OECD economic projections for Indonesia**

Annual percentage change, volume (2007 prices)

	2013	2014	2015	2016	2017
<b>Gross domestic product (GDP)</b>	<b>5.6</b>	<b>4.8</b>	<b>4.8</b>	<b>5.1</b>	<b>5.3</b>
Private consumption	5.5	5.3	4.5	5.1	5.0
Government consumption	6.7	1.2	5.4	5.4	3.5
Gross fixed capital formation	5.0	4.6	5.1	5.4	6.1
Stockbuilding <sup>1</sup>	-0.3	0.8	-0.9	-0.3	0.1
Total domestic demand	5.0	5.4	3.9	4.9	5.5
Exports of goods and services	4.2	1.0	-2.0	-0.9	3.1
Imports of goods and services	1.9	2.2	-5.8	-2.3	4.2
Net exports <sup>1</sup>	0.6	-0.3	0.9	0.3	-0.2
<b>Other indicators</b> (growth rates, unless specified)					
GDP deflator	5.0	5.4	4.2	2.6	3.9
Consumer price index	6.4	6.4	6.4	3.1	3.5
Trade balance <sup>2</sup>	-0.8	0.8	0.3	0.1	-0.6
Current account balance <sup>2</sup>	-3.1	-3.1	-2.1	-2.0	-2.5
Central government fiscal balance <sup>2</sup>	-2.4	-2.5	-2.3	-2.6	-2.9
Three-month money market rate	6.3	8.8	8.3	7.2	6.4
Ten-year government bond yield, average	6.9	8.2	8.2	7.8	7.4

1. Contribution to changes in real GDP.

2. As a percentage of GDP.

Source: OECD staff estimates.

government investment in infrastructure gathering pace, inflation moderating and a stable rupiah. Motor vehicle sales are trending upwards, credit growth is picking up, and the Purchasing Managers Index is recovering, suggesting stronger consumption and a rebound in business investment.

As for most of the world, the risks are largely on the downside, the most significant of which are international. If external conditions worsen significantly and the current account deficit widens, the exchange rate may come under renewed pressure from capital outflows, and the monetary authorities would have to delay, or even reverse, interest rate cuts. Domestically, if revenues continue to weaken, the government would have to make further expenditure cuts to avoid hitting the legal 3%-of-GDP deficit ceiling. If the shift from public to private participation in infrastructure investment does not happen as planned, activity will weaken, and confidence will suffer. Some extreme but unquantifiable potential shocks are described in Table 3.

**Table 3. Possible extreme shocks to the Indonesian economy**

Shock	Possible impact
Dramatic slowdown in Asia	Indonesia is a major exporter of raw and slightly transformed commodities and is particularly exposed to China. A sharp downturn there and/or in other regional trading partners would have a major impact on Indonesia through the demand and price channels. Government finances rely heavily on royalty revenues from the mining and oil/gas sectors. Many firms are exposed due to high levels of short-maturity foreign-currency-denominated borrowing.
Natural disasters	Indonesia is prone to natural disasters such as extreme weather, volcanic activity and earthquakes. These disasters have the potential to cause enormous economic and humanitarian upheaval. Man-made disasters, such as the 2015 forest fires, can also have major economic, health and ecological impacts. These could be mitigated by adopting a comprehensive mechanism for handling such risks (including issuing so-called catastrophe bonds), as Mexico did in 2006.

### **The financial sector is healthy**

Despite the slowdown in economic activity, the financial sector remains in good shape and is one of the most profitable globally. Banks' non-performing loan ratio (NPLs) stood at 3.2% in July 2016, a slight increase over the previous three months. The deterioration in NPLs has been larger for banks that are more exposed to corporate borrowing and is increasingly reflected in their share prices. Going forward, the sector will be challenged, with sub-par economic growth, low commodity prices, pressure from the government to lower lending rates and the depreciated rupiah all weighing on asset quality and profitability. Nevertheless, sound capital levels and adequate liquidity will provide buffers against downside risks, and lower interest rates provide extra protection. The new Financial System Crisis Prevention and Resolution law clarifies the mechanisms for bank resolution (including bail-in provisions) and aligns the functions of the various supervisory agencies.

Corporate debt, at around 32% of GDP, remains low (IMF, 2015), although it has doubled over the past five years, and around two-thirds of it is denominated in foreign currency. Significantly more favourable lending conditions abroad and shallow domestic financial markets, particularly the thin corporate bond market, have discouraged domestic borrowing and driven firms to borrow actively in global bond and syndicated loan markets. In October 2016, out of a total of USD 170 billion of private foreign debt, less than one third (27.6%) had remaining maturities less than one year. However, a 2014 BI survey of 159 of the largest private borrowers that constitute over 80% of total private debt, only 35% undertook

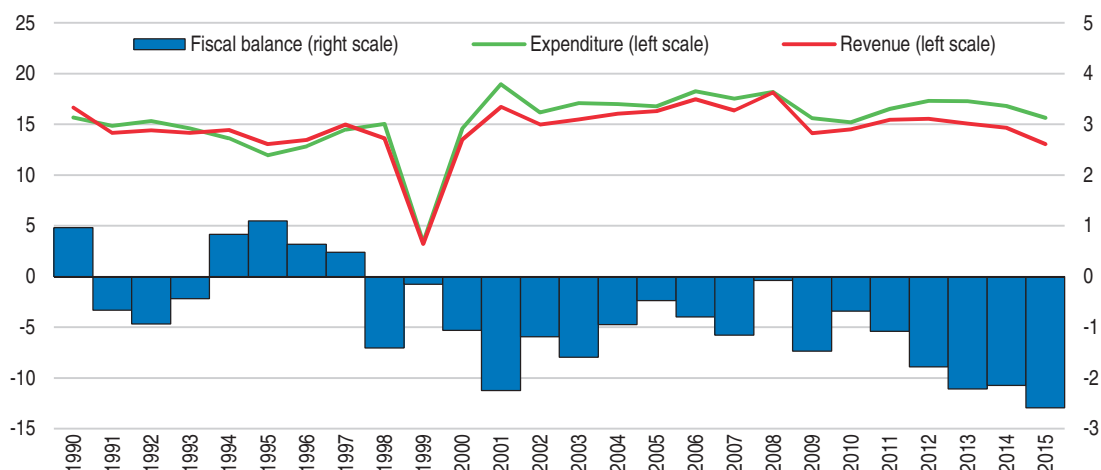
hedging transactions. The survey also revealed that 52% of companies that did not engage in hedging activity were purely domestically oriented and therefore did not benefit from a natural hedge. As a result of foreign-currency exposure, over the past two years there have been payment defaults in the telecommunications and mining sectors. In 2014 regulations were imposed on nonbank corporations to enhance risk management of foreign debt by mitigating liquidity mismatch, overleverage risk and currency risk through hedging. BI reports that since Q2 2015 Indonesian corporations as a whole have hedged their open position in foreign currency for up to three months more than required by these regulations. The authorities must continue monitoring the situation carefully.

### **The fiscal framework is strong**

Indonesia's fiscal position is in good shape, supported by legal caps on the fiscal deficit and public debt at 3% and 60% of GDP, respectively. The deficit has come closer to the limit for the last four years, reflecting to some extent the authorities' desire to revive declining output growth (Figure 7); the OECD projects that the fiscal deficit will stay near 3% in the next two years due to both revenue constraints and ambitious spending programmes. However, public debt is low (about 27% of GDP in 2015), which is also a consequence of the relatively small size of the Indonesian government (Chapter 2). Nevertheless, even with limited indebtedness, debt service costs are a relatively high share of government revenues (Figure 8, Panel A). Moreover, the implicit interest rate paid on the stock of Indonesia's public debt is also high (Panel B), reflecting exchange rate uncertainty and sovereign risk.

Public spending has undergone a major overhaul since the 2014 election. In particular, fuel subsidies have been mostly scrapped: they comprised nearly 14% of total expenditures in 2014 but dropped to about 3% in 2015. However, remaining energy subsidies (including for electricity), representing about 7% of public spending, should also be phased out completely. A welcome reform related to electricity began to limit government subsidies as of mid-2016 to only 25 million households in need, about half as many as in 2015. The implementation of this reform is targeted for completion by the end of 2016.

**Figure 7. Central government revenue, expenditure and balance**  
% of GDP

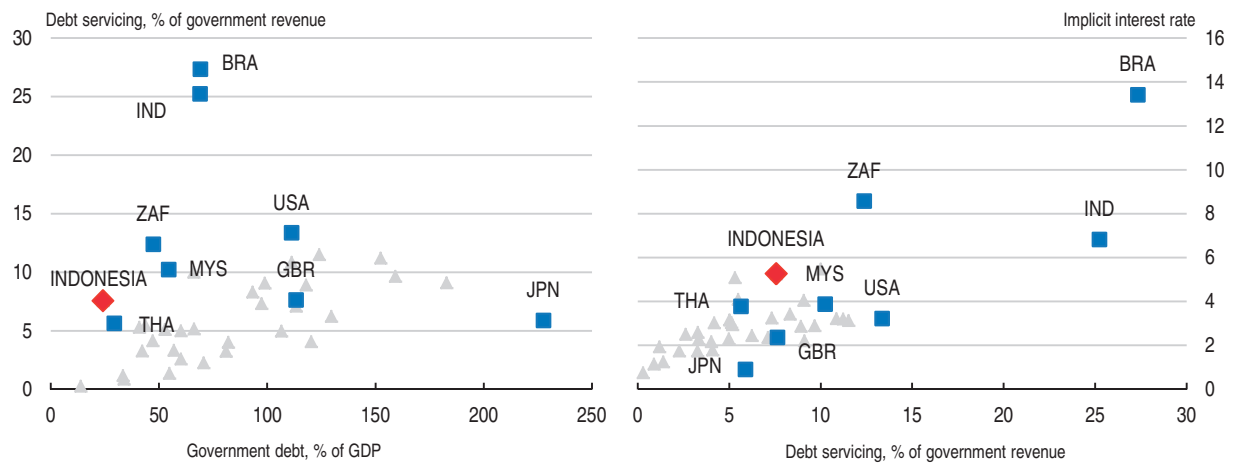


Source: CEIC database.

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Figure 8. **Government debt, servicing costs and implicit interest rates**

Selected countries, 2014



Note: Fiscal year 2014/2015 for India. 2015 for Brazil.

Source: OECD Economic Outlook database; World Bank World Development Indicators database; IMF Government Financial Statistics database; Reserve Bank of India; South African Ministry of Finance; CEIC.

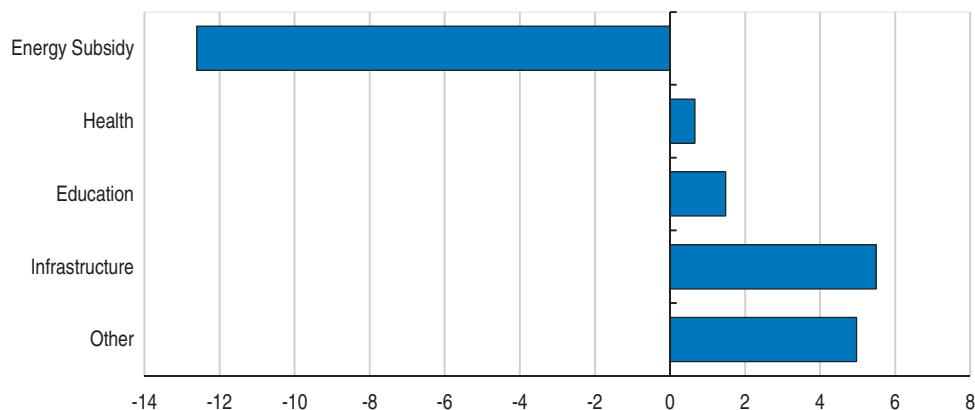
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Consistent with OECD (2015a) recommendations, much of the fiscal space created from lower energy subsidies has been used for social spending and higher infrastructure spending (Figure 9). The authorities are also using direct capital injections into public enterprises to boost infrastructure investment. While this seems an easy way to expedite prioritised projects, it is critical to follow sound corporate governance principles (OECD, 2015d), particularly given that such projects potentially represent large contingent fiscal liabilities.

Over the last three years revenues have been over-estimated in both preliminary and revised budgets (Figure 10), partly due to lower oil prices. Lower-than-projected GDP growth also raised the deficit. The mid-term revisions, which in the past have diminished gaps that emerge in the preliminary budget, have, in the last three iterations, reduced the errors only marginally. For 2016, the preliminary budget projected revenues over 20%

Figure 9. **Change in government spending**

Difference between 2014 and 2015, percentage points of total expenditure

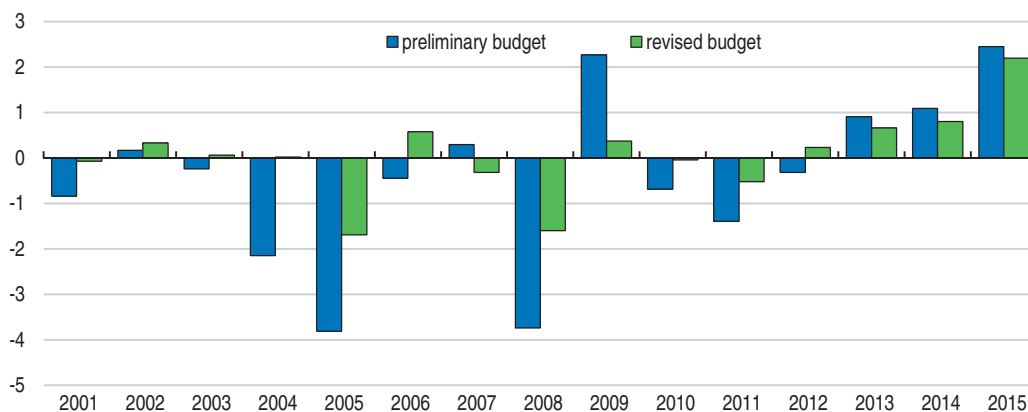


Source: CEIC database.


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Figure 10. **Difference between projected and realised government revenues**  
% of GDP



Source: CEIC database.

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higher than the 2015 realisation, and the mid-year revision assumed revenues only about 2% lower than initially expected. Based on first-semester collections, which were down about 5% year-on-year, the government cut expenditure by less than 1% as part of the official budget revision in June. It subsequently decided to further revise down spending in August, with an additional reduction of 6.5%.

Budgets need to adopt more realistic projections so as to significantly reduce foreseeable shortfalls. Adjusting expenditures and financing late in the year should be avoided. Otherwise, Indonesia is at risk of harming its fiscal credibility, unexpectedly postponing projects involving third parties (which may entail heavy compensation) and borrowing at unfavourable interest rates. Indeed, approaching the end of 2015, the government dipped into its reserve fund (unspent revenues accumulated from previous years) and also issued IDR 25 trillion (almost USD 2 billion) in debt with yields exceeding market levels. Annual budgeting should be more closely linked to an explicit medium-term fiscal plan, and consideration should be given to establishing an independent fiscal authority to ensure unbiased projections.

### **Revenues need to increase**

As discussed in the previous *Survey*, tax revenue is low in Indonesia, at only 10.7% of GDP in 2015 – down from 11.4% in 2012. In order for the government to play a greater role in the provision of public services – including by strengthening the social safety net, improving the skills of the citizenry and enhancing public infrastructure – it needs to raise more revenue. Greater non-tax revenues are available from, for example, marine sources and, if public enterprise efficiency can be boosted, from dividends. As to taxes, Indonesia should review its corporate income tax (CIT) system in general, and the CIT holidays for specific sectors and investment projects in particular (OECD, 2012a). The government should also consider expanding immovable property taxes (IMF, 2016). Also, as discussed in previous *Surveys*, the value-added tax (VAT) could raise significantly more revenue if the framework were simplified, including reducing exemptions (OECD, 2012a). As discussed in Chapter 1, sub-national governments rely heavily on central government transfers to fund their mandated activities. They should be given the legal wherewithal to fully exploit their revenue potential, provided that they can improve their fiscal management and budgeting

through greater technical assistance from central government. This would both lighten the fiscal burden on the central government, while also increasing autonomy and accountability at the local level.

Tax evasion is high and voluntary compliance low (OECD, 2015b). Only 27 million taxpayers were registered in 2014, out of a population of 260 million, and only 900 000 of those paid what they owed. Past efforts have resulted in improvements: there were only 10 million taxpayers in 2008. The authorities should continue strengthening tax administration and improving tax collection and enforcement. Digitalisation, cross-checking sources of information for tax audits and allocating greater resources to the Directorate General of Taxes should all be stepped up. The ongoing expansion of electronic invoicing for the VAT is a positive development, but easier access to personal financial data by authorities would also be useful. The 2013 measure to allow SMEs (with turnover below IDR 4.8 billion or USD 360 000) a special low turnover tax rate of 1% in order to formalise has been quite successful. The current tax amnesty programme (see below), makes provision for SMEs to regularise their tax arrangements, which should also help draw them into the formal sector. Making personal social security contributions and disbursements through the income tax system would also encourage participation in the tax system more generally.

The government is undertaking a tax amnesty to bolster incentives for wealthy taxpayers to repatriate overseas assets. Concessional tax rates are applied, including lower rates for repatriated assets. The government expects immediate benefits of repatriation in addition to tax revenues, including underpinning the external balance, supporting government bond issuance (accredited banks will invest repatriated funds in government bonds, including specific infrastructure bonds) and boosting liquidity and private investment in a period of relatively slow GDP growth. Expectations of tax revenues from the amnesty vary enormously. The first phase expired in September 2016 and there are to be two subsequent phases with higher penalties applying. As at end-September, over 400 000 Indonesians had declared assets to the value of IDR 3 500 trillion (USD 280 billion). To date, the programme has generated IDR 90 trillion in revenue, 50% of the government target of IDR 165 trillion. Indonesia previously implemented amnesties in 1984 and 2008. Experiences of repeated tax amnesties in OECD countries have been characterised by only temporarily increased tax revenues and encouragement of future evasion. That said, with the OECD's Automatic Exchange of Information (AEOI) regime due to come into force in the next two years, the timing of the amnesty is good, as it provides taxpayers with an opportunity to regularise past non-compliance prior to the entry into force of AEOI standard (OECD, 2015e). However, authorities must communicate clearly that this offer will not be repeated and that henceforth the AEOI will be used to locate undeclared assets and that full penalties will apply.

## Equality and inclusiveness

As noted in the previous *Survey*, over recent decades Indonesia has made impressive inroads into poverty, aided by strong per capita income growth and targeted poverty-reduction programmes. It has been largely successful in achieving its Millennium Development Goal (MDG) targets of reducing poverty, increasing access to primary education and reducing the prevalence of certain diseases. However, income inequality is high and rising, and outcomes for remote indigenous populations continue to lag. The current mix of social programmes, including cash transfers conditioned on school

attendance and a subsidised rice programme, are not well targeted, although greater use of the single registry of vulnerable households should help to address this. Investment in social infrastructure is also lagging. While PISA outcomes are in line with Indonesia's current stage of development, the education system still suffers from serious quality and access problems.

Gender equality in Indonesia has improved significantly over the last two decades. Female life expectancy, at 73, is now higher than the global average of 71. Innovative microcredit schemes are assisting more women in becoming entrepreneurs. Female participation in education has also improved greatly at all levels. Nonetheless, there are areas for improvement. Labour market participation by women, at around 51%, is relatively low, and maternal mortality remains high.

The regional aspect of equality and inclusiveness is important in a large and diverse country like Indonesia, most especially since decentralisation has put more and more responsibilities for the delivery of social services into the hands of sub-national governments (see below). The successful achievement of Indonesia's Sustainable Development Goals (SDGs) will need to involve all levels of government.

### **Advancing industrialisation by getting the fundamentals right**

Indonesia has a long history of policies designed to bring about structural change to diversify the economy, mainly so as to lessen the reliance on commodities and promote local value added by shifting activity towards manufacturing, and promoting exports and import substitution. At the same time policies have sought to bolster the agricultural sector by increasing productivity and protecting it from competition. This has often been implemented in the name of food security (see below). However, factors such as endemic corruption, skills shortages, excessive bureaucratic regulation, and poor infrastructure have held back structural transformation.

The previous *Survey* discussed in detail the policies required to promote inclusive and sustainable structural change, including the critical importance of putting the fundamental framework conditions in place. Being more open to foreign trade and investment would allow greater engagement in global value chains (GVCs), thereby creating high-skill, well-paid employment and facilitating technology transfer.

#### ***The ASEAN Economic Community and other international economic agreements***

On 31 December 2015 the ASEAN Economic Community (AEC) came into effect. The AEC aims for economic integration among the 10 Southeast Asian member countries, including the launch of a single market, the tariff-free flow of goods, services and investment, and lower restrictions on the flow of capital. The agreement has a strong focus on promoting small and medium-sized enterprises (SMEs), which will boost inclusive growth, and skilled labour in eight occupational areas will be free to move between countries. While it is estimated that there are almost no explicit tariffs on goods and services traded among the ASEAN-6 (Brunei, Indonesia, Malaysia, Philippines, Singapore and Thailand), much progress is required on lowering non-tariff barriers operating across the AEC countries (Ernst & Young, 2015).

In October 2015, President Widodo announced his intention to push for Indonesia to sign up to the Trans-Pacific Partnership (TPP), an agreement among 12 Pacific Rim countries (Australia, Brunei, Canada, Chile, Japan, Malaysia, Mexico, New Zealand, Peru,

Singapore, United States and Viet Nam), which together constitute around 40% of global GDP and 800 million consumers. The TPP's goals are to "promote economic growth; support the creation and retention of jobs; enhance innovation, productivity and competitiveness; raise living standards; reduce poverty; and promote transparency, good governance, and enhanced labour and environmental protections." The TPP includes strong support for SMEs, a recent focus of Indonesian reforms. SMEs stand to gain the most by cutting through shipping and other bureaucratic "red tape." For example, it provides for more efficient and transparent customs procedures, advance rulings on how products will be treated to prevent surprises at the border, expedited shipping, and reduced paperwork. This is especially important for SMEs, which typically do not have the resources that larger companies have to navigate through complicated and restrictive trade bureaucracy.

Indonesia already has free trade agreements (FTAs) with seven of the 12 TPP countries, but not with either the United States or Canada. With regional competitors like Malaysia and Viet Nam having signed up, Indonesia may miss out on market access for its exports and as a consequence may not be as attractive to foreign investors (Cheong, 2013). Signing up to the TPP will require considerable political will, especially in overcoming resistance to the TPP investment chapter (which includes an investor-state dispute settlement mechanism) and restrictions on the role of state-owned enterprises (SOEs), which are important in Indonesia.

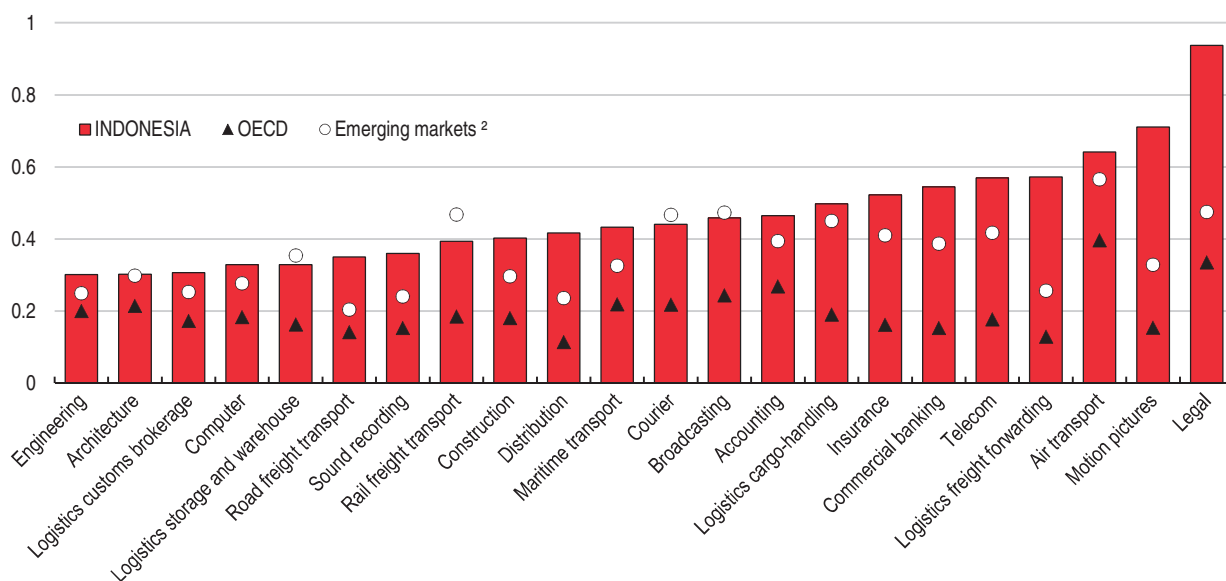
The European Union is the second largest investor in the Indonesian economy and fourth largest trading partner, representing almost 10% of its total external trade. The Indonesia-European Union comprehensive economic partnership agreement (IE-CEPA) has faced significant delays, but renewed political will means that it is now expected to be concluded by 2019. Indonesia and the European Union have signed but not yet ratified the Forest Law Enforcement Governance and Trade (FLEGT), which will help Indonesia obtain a license to export legally sourced timber and other forest products to Europe. In March 2016, Australia and Indonesia restarted negotiations of the Indonesia-Australia Comprehensive Economic Partnership Agreement (IA-CEPA), which covers trade, investment and economic cooperation.

Indonesia's broader engagement in international trade, more intensive participation in GVCs and fuller exploitation of its comparative advantages, including in service exports, are also being held back by regulatory impediments (Figure 11). Indeed, its reliance on imports of certain basic services, such as international freight transport and logistics, could be lessened if domestic competition were stimulated in these sectors. The successful implementation of the reform packages recently announced by the government will help in this regard (see below).

### **Competitiveness and the business climate**

One of the keys to economic development through structural change is the promotion of a competitive, innovative and dynamic private business sector. The challenges facing Indonesia are illustrated by global competitiveness rankings (Figure 12): labour market efficiency, primary education outcomes, technological readiness, and infrastructure. The government is making progress in some of these domains, like the provision of infrastructure, while in others, such as labour market regulation, a lot remains to be done. The sub-national aspect is also important, not least in a decentralised country like Indonesia, where much of the regulatory oversight of corporate activity has been devolved to sub-national jurisdictions (Chapter 1).

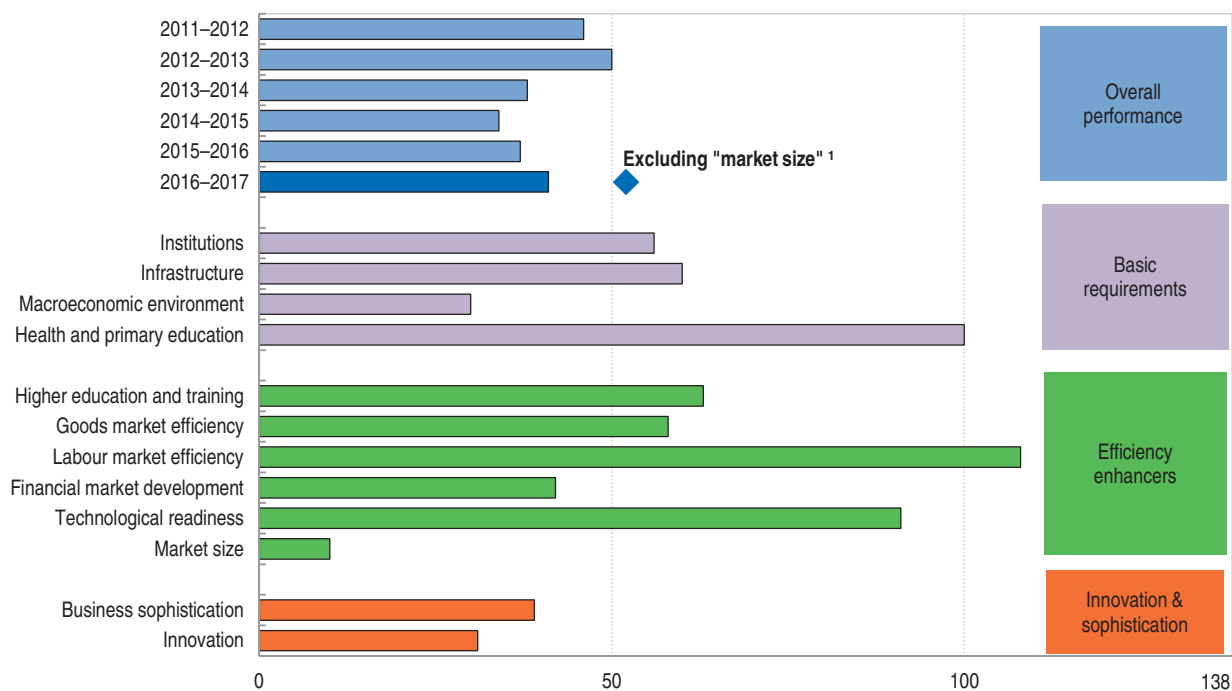
Figure 11. Indonesia's services trade restrictiveness, 2015<sup>1</sup>



1. The Services Trade Restrictiveness Index (STRI) components take values between zero and one, one being the most restrictive. The STRI database records measures on a most-favoured-nation basis; preferential trade agreements are not taken into account. The database has been verified and peer-reviewed by OECD members.
  2. Emerging markets are an average of Brazil, China, Colombia, India, Indonesia, Russia and South Africa.
- Source: OECD Services Trade Restrictiveness Index database.

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Figure 12. Indonesia's global competitiveness rankings, aggregate and subcomponents, 2016



1. Recalculated ranking for Indonesia when excluding "market size" subcomponent.
- Source: World Economic Forum, Global Competitiveness Report 2016-2017.

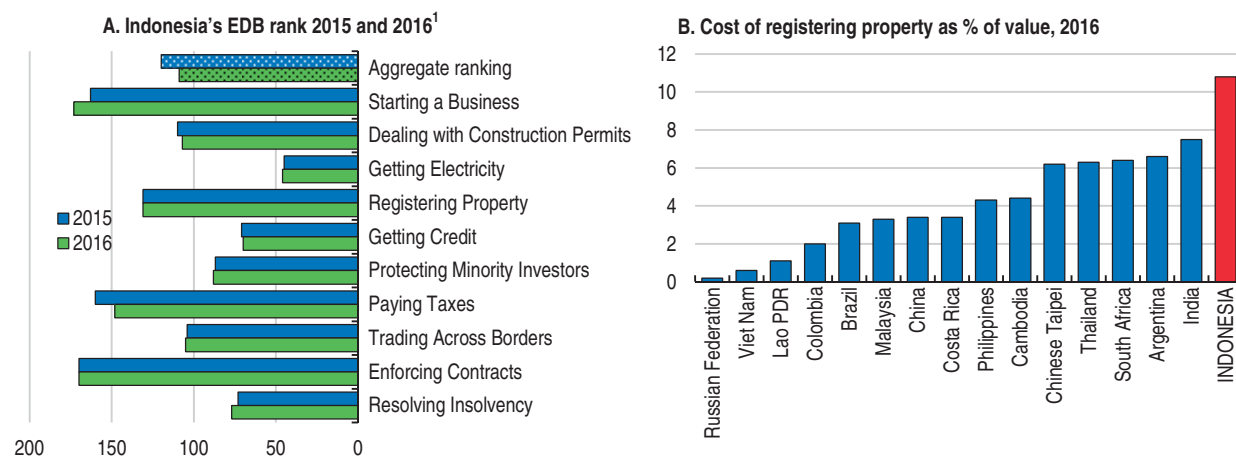
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The government has put heavy emphasis on improving the business climate. The series of reform packages released beginning in September 2015 bear witness to the government's determination to improve conditions for businesses – both domestic and foreign – particularly with regard to promoting investment (Table 4). However, some proposed changes still require further implementing regulations. The government has also acknowledged that a significant part of the problem resides at the sub-national level – and, indeed, in July 2016 3 000 sub-national government regulations that were inconsistent with national legislation were scrapped. The President has set a target to elevate Indonesia to at least 40th place among 189 economies in the World Bank's Doing Business report.

Some progress has been made. In the Doing Business rankings Indonesia moved from 120th to 109th between 2015 and 2016. However, the bulk of this improvement came from changes to corporate tax rules, a subcategory in which Indonesia still ranks just 148th (Figure 13, Panel A). For example, the number of tax payments a firm is required to make in

**Table 4. Economic reform packages, September 2015 to August 2016**

Number	Date	Package details
1.	11 September 2015	<ul style="list-style-type: none"> <li>● Improve investment climate by cutting bureaucracy and more one-stop shops.</li> <li>● Accelerate national priority projects.</li> <li>● Deregulate housing and property investment.</li> </ul>
2.	29 September 2015	<ul style="list-style-type: none"> <li>● Rationalise permit and license services in special economic zones.</li> <li>● Fast process for tax allowance and tax holiday (25 days).</li> <li>● Expedite forestry licenses processing.</li> <li>● Income tax cut for interest paid on savings deposits of exporters.</li> </ul>
3.	7 October 2015	<ul style="list-style-type: none"> <li>● Electricity price cut for industries and labour-intensive industries to defer payment.</li> <li>● Increase coverage of micro and small businesses to financing (KUR)</li> <li>● Simplify land permits for investments</li> </ul>
4.	10 October 2015	<ul style="list-style-type: none"> <li>● Clear and transparent formula for wage increases.</li> <li>● Lower interest rate and increase coverage of micro and small businesses financing.</li> </ul>
5.	22 October 2015	<ul style="list-style-type: none"> <li>● Tax incentives through asset revaluation.</li> <li>● Eliminate double taxation on real estate, property and infrastructure.</li> <li>● Simplify regulation in Islamic banking.</li> </ul>
6.	5 November 2015	<ul style="list-style-type: none"> <li>● Tax incentives in special economic zones including tax holidays, tax allowances and allowing property ownership by foreigners.</li> <li>● Simplify permit and license process for import of raw materials for the production of pharmaceuticals.</li> </ul>
7.	4 December 2015	<ul style="list-style-type: none"> <li>● Income tax rate cut for labour-intensive industries for two years, minimum 5 000 employees and 50% of output exported.</li> <li>● Accelerate land certification process for street vendors and small and medium businesses (free of charge for those having CCT card KKS).</li> </ul>
8.	21 December 2015	<ul style="list-style-type: none"> <li>● One Map policy to harmonise land utilisation.</li> <li>● Incentives for aviation industries.</li> <li>● Incentives for investing in oil refineries.</li> </ul>
9.	27 January 2016	<ul style="list-style-type: none"> <li>● Single billing system for port services conducted by SOEs.</li> <li>● Integrate National Single Window system national port IT system.</li> <li>● Mandatory use of Indonesian rupiah transportation-related payments.</li> <li>● Remove difference in prices for public and private postal services.</li> </ul>
10.	11 February 2016	<ul style="list-style-type: none"> <li>● Remove foreign ownership cap on 35 business sectors.</li> <li>● Protect small &amp; medium enterprises as well as cooperatives.</li> </ul>
11.	29 March 2016	<ul style="list-style-type: none"> <li>● Lower tax rate on property acquired by local real estate investment trusts.</li> <li>● Harmonise customs checks at ports (to curtail dwell time).</li> <li>● Subsidised loans for export-oriented small &amp; medium enterprises.</li> <li>● Roadmap for the pharmaceutical industry.</li> </ul>
12.	28 April 2016	<ul style="list-style-type: none"> <li>● Reduce time to register a business and to acquire a construction permit, register a property, and lower frequency of paying taxes.</li> <li>● Make taxes payable online.</li> </ul>
13.	26 August 2016	<ul style="list-style-type: none"> <li>● Reduce red tape in the construction of housing for the poor.</li> </ul>

Figure 13. **Ease of Doing Business subcomponents and the cost of registering a property**

1. Rankings of the subcomponents of Indonesia's Ease of Doing Business (EDB) index.  
Source: World Bank, Doing Business.

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a year fell from 64 in 2015 to 54 in 2016, but Indonesia still ranks 180th in this subcategory. This contrasts with six tax payments per year in Singapore, 13 in Malaysia, and 22 in Thailand. In its 12th reform package the government stated its intention to reduce tax payments per year to just 10.

The cost to a business of registering a property, at over 10% of the value of the property, is well above that of comparator countries (Figure 12, Panel B). Likewise, despite efforts to set up one-stop shops in all regencies/cities (the second tier of sub-national government), starting a business is still relatively arduous, with the time to register a business still long (ranking 173th; Table 5) at around 47 days on average and a very high minimum paid-in capital requirement. Reforms in the April 2016 reform package aim to cut the time and cost of business registration and reduce the cost and number of procedures required to register a property.

Table 5. **Ease of Doing Business rank and subcomponents for selected countries, 2016**

	Malaysia	Thailand	China <sup>1</sup>	Viet Nam	Philippines	INDONESIA <sup>1</sup>	India <sup>1</sup>
<b>Aggregate Rank</b>	<b>18</b>	<b>49</b>	<b>84</b>	<b>90</b>	<b>103</b>	<b>109</b>	<b>130</b>
Starting a Business	14	96	136	119	165	173	155
Construction Permits	15	39	176	12	99	107	183
Getting Electricity	13	11	92	108	19	46	70
Registering Property	38	57	43	58	112	131	138
Getting Credit	28	97	79	28	109	70	42
Protecting Minority Investors	4	36	134	122	155	88	8
Paying Taxes	31	70	132	168	126	148	157
Trading Across Borders	49	56	96	99	95	105	133
Enforcing Contracts	44	57	7	74	140	170	178
Resolving Insolvency	45	49	55	123	53	77	136

1. The rankings of economies with populations over 100 million as of 2013 (Bangladesh, Brazil, China, India, Indonesia, Japan, Mexico, Nigeria, Pakistan, the Russian Federation and the United States) are based on data for only two cities.

Source: World Bank, Doing Business.

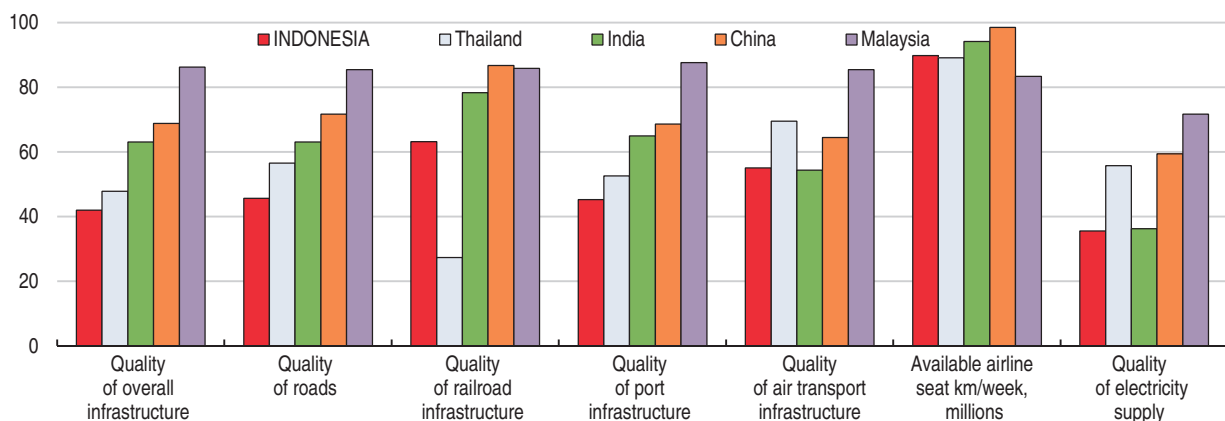
In many of these regulatory areas regional governments have principle administrative responsibility. If Indonesia is to make significant progress in improving the business climate, sub-national governments need to streamline and harmonise bureaucracy. As noted in Chapter 1, there is enormous regional variation in these regulations, with some matching international best practice and others that should be encouraged to emulate the leaders. To this end, the central government should offer greater incentives for sub-national governments to put in place policies that promote business development. For example, it could offer a greater share of corporate or payroll tax revenues or enforce greater regulatory harmonisation.

Further progress could be made putting in place policies that: i) reduce transaction taxes and the tax on the acquisition of land and buildings by imposing a ceiling or replacing them with fixed fees; ii) improve coordination among government agencies, so that businesses are not obliged to notify each agency of having completed administrative tasks in another; iii) step up monitoring of the implementation of national regulations across the country; iv) speed up procedures at the land registry office; and (v) make the business registry electronic. Most OECD countries have electronic business registries, and a significant number offer online registration (World Bank, 2016).

### Infrastructure

A lack of infrastructure, especially in transportation, logistics and water treatment is hampering Indonesia's economic, business and social development. The World Economic Forum Global Competitiveness Report (2016-17) ranked Indonesia 60th out of 138 economies with regard to its infrastructure. Poor infrastructure inhibits Indonesia's international trade, competitiveness and foreign investment. Internal trade is also suffering. According to data published by the Indonesian Chamber of Commerce and Industry (KADIN), a typical Indonesian company devotes around 17% of its total expenditure to logistics, in contrast with around 10% in other economies in the region. Despite Indonesia's archipelagic geography, sea transport remains poorly developed (Figure 14). Weak transport infrastructure contributes to large disparities in prices across the country. For example, President Widodo himself recently noted that gasoline sold for around IDR 7 000 per litre in Jakarta, but as much as IDR 60 000 per litre in Wamena, Papua

Figure 14. **Index of comparative quality of infrastructure, selected countries, 2016**



Source: World Economic Forum, *Global Competitiveness Report 2016-17*.

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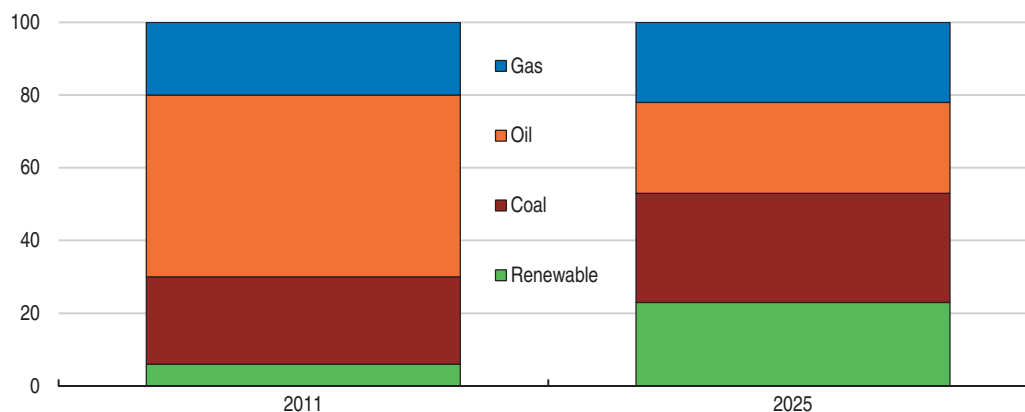
and that a sack of cement priced at IDR 60 000 in Jakarta could cost as much as IDR 2.5 million in the Papua highlands.

The quality and supply of electricity is also variable, with some areas plagued by blackouts. The state-owned electricity company, Perusahaan Listrik Negara (PLN), is a monopoly and is heavily dependent on government subsidies to bridge the gap between the cost of production and the administratively fixed selling price. It has had few financial resources for large-scale investments, and demand has therefore outstripped supply. The government plans to boost generation capacity by around 35 GW by 2020, while also almost eliminating the use of expensive fuel oil and increasing the use of coal and renewables, for which a variety of local community-based initiatives are underway (Figure 15). Coal-fired power plants will make the most significant contribution to the planned increase in supply. However, the expansion of coal-fired generation due to its relative abundance and low cost may undermine key environmental policy objectives (see below).

As discussed in the previous *Survey*, land disputes have stalled infrastructure projects for years or caused them to be cancelled altogether. But there have recently been steps to improve the land acquisition process. In 2012 a new Land Acquisition Law was promulgated to speed it up. However, infrastructure provision failed to improve owing to a lack of coordination and conflicting interests between central and local governments. In 2015, the President issued a decree to amend the 2012 law, allowing private actors to finance land procurement, thus opening up previously closed off financing channels. Also in 2015, a land bank was established, jointly managed by the finance, public works and transportation ministries, which facilitates government purchases of land required for infrastructure development.

No matter the sector it is crucial to ensure that infrastructure maintenance be scheduled and adequately financed, as this is often the cheapest means to ensure its quality and availability. For instance, as described in Chapter 1, in many provinces, more than half of all roads are classified as in disrepair. Furthermore, at least for new infrastructure, user charging is called for, not only to help in the financing of provision, but also to efficiently gauge when expanding capacity is appropriate. In addition, besides an

Figure 15. **Indonesia's energy mix**  
% of total<sup>1</sup>



1. Indonesian authorities do not consider biomass as a renewable energy. This explains the difference with Figure 24 (Panel B).

Source: Ministry of Energy and Mineral Resources.

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effective project selection process, including conformity with overall national priorities, the authorities need to ensure efficient implementation. Finally, despite longstanding government efforts to promote public-private partnerships (PPPs) to leverage up the impact of public spending, they have failed to take off in Indonesia. Projects are by nature risky and complex (requiring in-depth knowledge on the part of the government negotiators), and the returns are spread out over a long horizon. While minimum revenue guarantees can help get private firms involved, the government should take care not to assume all project risks itself. The OECD principles for the Public Governance of Public-Private Partnerships offer guidelines for the management of PPPs (OECD, 2012d).

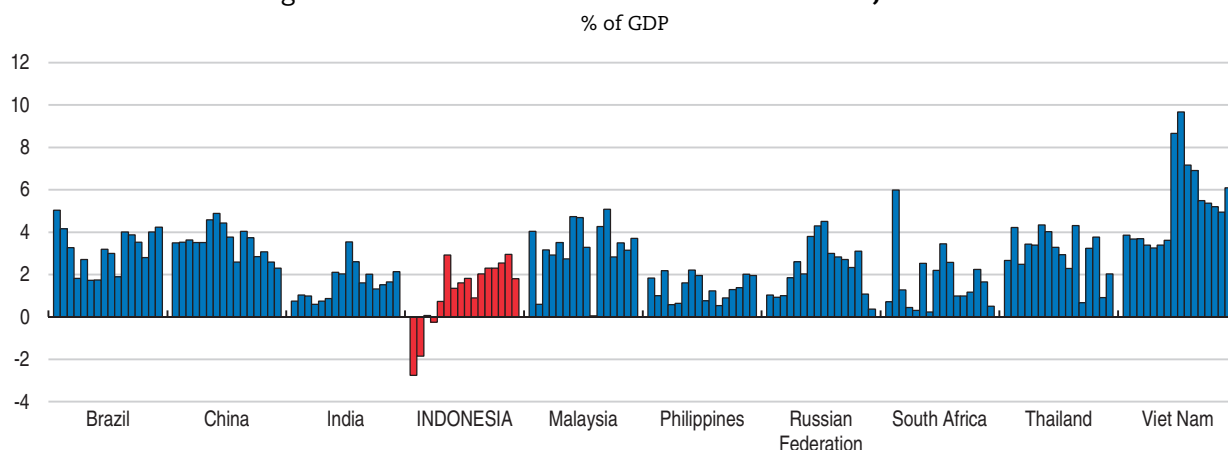
### **Foreign direct investment and the Negative Investment List**

Indonesia's large domestic market, growth prospects, natural resource endowment and abundance of low-cost labour makes it a potentially attractive foreign direct investment (FDI) destination (Hornberger, 2011). Despite difficult international conditions, FDI inflows have picked up substantially over the past few years but remain lower than in some other countries (Figure 16).

The poor business environment is the key factor holding back FDI. Excessive and overlapping regulation, including across the different levels of government, have made establishing and conducting business difficult for both foreign and Indonesian entrepreneurs. Long-standing explicit limitations or outright bans on foreign participation in certain sectors have obviously limited activity. Seen from a broad perspective, Indonesia has significantly liberalised restrictions on inward investment over time, albeit at a slower pace more recently (OECD, 2010). Yet, there remains significant variation in terms of statutory restrictions on FDI in comparison with regional peers and other OECD countries (Figure 17). According to the OECD FDI Regulatory Restrictiveness Index, manufacturing has been widely liberalised, but many primary and service sectors remain partly off-limits to foreign investors, holding back potential economy-wide productivity gains.

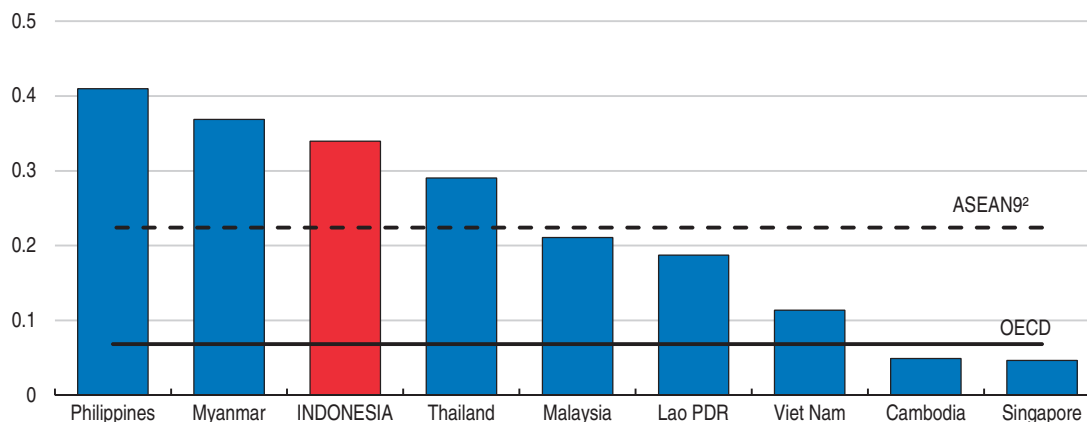
Recently, things have been moving in the right direction with a May 2016 revision to the Negative Investment List that removed 35 sectors which are now fully open to foreign ownership, bringing Indonesia's FDI regime closer to international and regional levels of

**Figure 16. FDI net inflows in selected countries, 2000-15**



Source: International Monetary Fund, International Financial Statistics and Balance of Payments databases; World Bank, International Debt Statistics; OECD estimates.

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Figure 17. **FDI restrictiveness for selected countries, 2015**FDI Regulatory Restrictiveness Index (Open = 0; Closed = 1)<sup>1</sup>

1. The OECD FDI Regulatory Restrictiveness Index covers only statutory measures discriminating against foreign investors (e.g. foreign equity limits, screening & approval procedures, restrictions on key foreign personnel, and other operational measures). Other important aspects of an investment climate (e.g. the implementation of regulations and state monopolies) are not considered. Data reflect regulatory restrictions as of December 2015. Data for Cambodia, Lao PDR, Singapore, Thailand and Viet Nam are preliminary.
2. ASEAN 9 is Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Viet Nam.

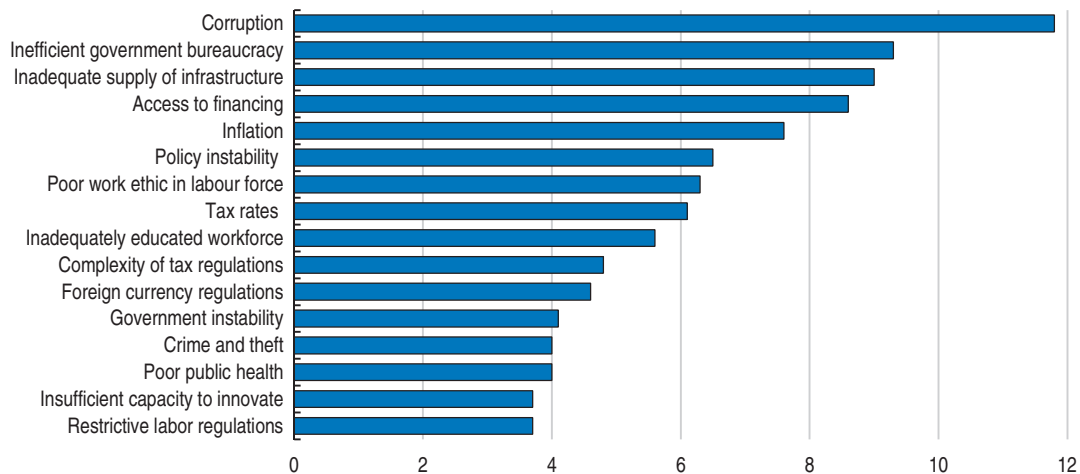
Source: OECD FDI Regulatory Restrictiveness Index database.

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openness. Importantly, it also signals a more positive attitude towards foreign investment, notably with the lifting or easing of foreign equity restrictions in key sectors. For example, foreigners are now allowed to fully own geothermal power plants of more than 10 megawatts through PPPs and to hold 49% of smaller power plants. Foreigners will also be allowed to fully own e-commerce businesses, but the cap on foreign investment in the retail sector remains. This comes at a critical moment as the previous negative list, issued in 2014, had adopted a more heterogeneous stance towards foreign investment by the government. However, despite some liberalisation, the 2014 list reversed some of the opening trend that had been observed in previous periods and notably made foreign investment in some key sectors, such as mining, more restrictive. In turn, these divestment rules have discouraged foreign investment in large, long-term, capital-intensive projects (Annex A.2), while seemingly arbitrary government decisions at the regional level (such as the case of Churchill Mining in East Kalimantan) have also discouraged foreign investors. Unfortunately, in the May 2016 revision, 20 additional sectors were added to the list, notably including formal education and certain activities in the construction industry. A much better approach would be to abolish the Negative Investment List except for sectors deemed essential to national security.


### **Corruption and governance**

Corruption also remains a real barrier to foreign investment, especially as other governments are cracking down on bribery in overseas jurisdictions, as per the OECD Anti-Bribery Convention. While Indonesia has made headway in tackling corruption in recent years, it remains the most significant barrier to doing business in Indonesia according to the Global Competiveness Report 2016-17 (Figure 18). Furthermore, according to Transparency International's Corruption Perception Survey, Indonesia ranked 88th out of 168 countries in 2015, improving only slightly from 2014. Statistics Indonesia compiles a

Figure 18. **The most problematic factors in doing business in Indonesia, 2016<sup>1</sup>**

1. Surveyed firms were asked to select the five most problematic factors for doing business in their country and to rank them between 1 (most problematic) and 5. The score corresponds to the responses weighted according to their rankings.

Source: World Economic Forum, *Global Competitiveness Report 2016-17*.

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survey-based corruption index, which shows that perceptions of corruption have increased in recent years, but experience of corruption has fallen somewhat.

As noted in the previous *Survey*, the work of the Corruption Eradication Commission (KPK) has had a great deal of success in combating corruption and raising awareness of its scale and pernicious nature. The KPK is limited to only investigating corruption implicating public officials and cases involving greater than IDR 1 billion (USD 76 000). The KPK remit should be extended to include the private sector, and it should be given the resources needed to do so. In recent years the integrity of the KPK has come under attack. For instance, in 2015, the institution was paralysed after its deputy chairman and two commissioners were arrested. In addition to increasing its resources, the government needs to vigorously defend the KPK. In particular, moves to scrap the KPK's surveillance powers should be strongly opposed, and the government should veto the proposal to give a parliamentary body the power to terminate KPK investigations.

As described in Chapter 1 of this *Survey*, corruption is a major issue in the regions, where understanding of what is involved is often poor. The issue has become more urgent as sub-national jurisdictions have proliferated and administrative responsibilities have been devolved. Given often weak legal and administrative capacity at the sub-national level, greater top-down monitoring has been found to be the most effective means of reducing corruption in Indonesia's regions (Olken, 2007). Taking further steps towards eradicating corruption would also help to improve tax collection, not just at the sub-national levels but also nationally. Indeed, perceptions of a high level of bribery have been found to contribute to lower tax compliance (Rosid et al., 2016). Survey data also suggest that taxpayer underreporting is more sensitive to variation in high-level corruption than to petty official misconduct.

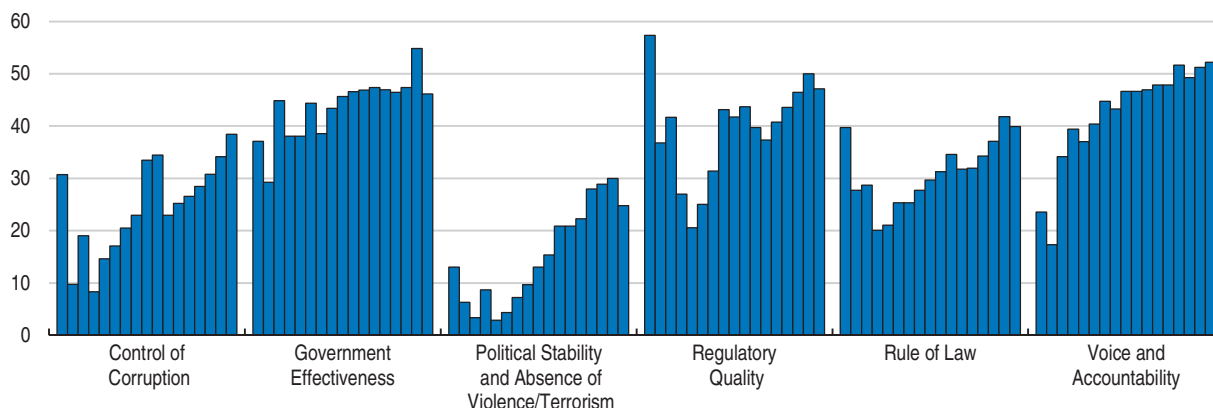
In the medium term, however, the solution to corruption will require improving the administrative capacity of sub-national governments. The KPK should focus greater attention on corruption in the regions, including through workshops and training to assist

sub-national governments to identify and address corruption. Public governance is a major issue in Indonesia, with inefficient bureaucracy ranking as second in the Global Competitiveness Report survey of impediments to doing business (Figure 17). While on many measures Indonesia has recorded notable improvements (Figure 19), in numerous aspects there is still a long way to go. The OECD's Open Government Review of Indonesia (OECD, 2016a) makes a number of recommendations aimed at improving governance by means of greater transparency and inclusiveness, including measures to address the complexities of Indonesia's decentralised governmental structure. Likewise, the OECD Review of Regulatory Reform for Indonesia (OECD, 2012c) identifies policies to promote institutional development and improve regulatory management. This includes better coordination of regulatory management practices and establishing clearer policy frameworks and institutional responsiveness, including at the sub-national level.

The capacity of sub-national governments to deliver high-quality public services is often lacking, and so are the frameworks that monitor the proper and efficient use of public resources. This has not been helped by the decision when setting up the decentralised structures to by-pass the provincial governments, which had previously borne most of the regional administrative and services delivery responsibilities and therefore had the greatest technical capacity. Smaller jurisdictional units suffer from a lack of economies of scale. Moreover, jurisdictions often remain ill-defined or overlap, and local legislation and regulations are frequently at odds with national policies. The continuing subdivision of political and administrative units, which has been termed "blossoming", is exacerbating the situation. Between 1999 and 2015 the number of provinces increased by over 30%, the number of regencies/cities by 55%, districts by 77% and villages by 20% (see Chapter 1).

Figure 19. **Indonesia's progress in public governance, 1996-2015**

Percentile rank among all countries ranging from 0 (lowest) to 100 (highest).



Source: World Bank Worldwide Governance Indicators (WGI).

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### **The labour market and informality**

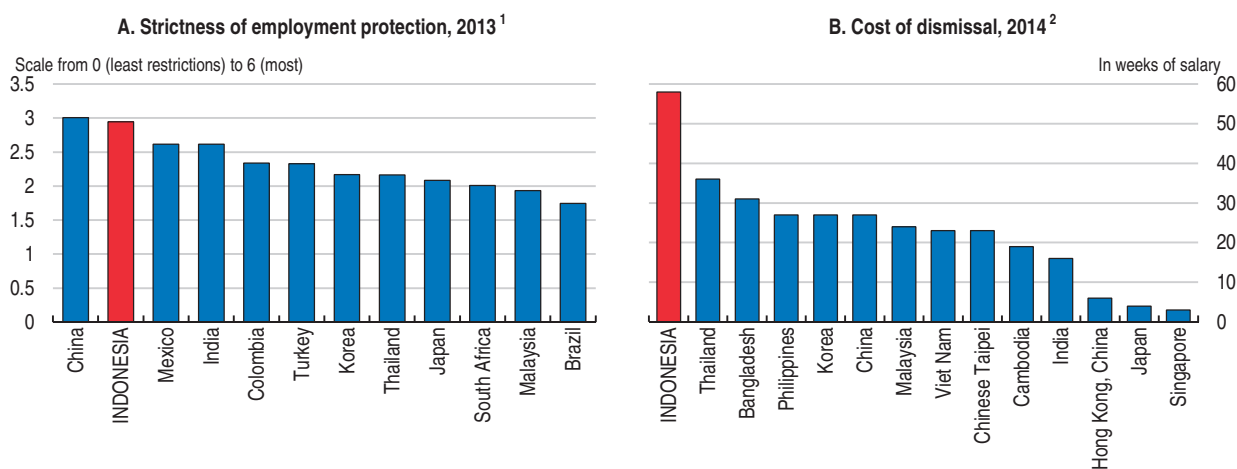
One of the factors holding back the competitiveness of the Indonesian economy is an inefficient labour market, as discussed in the previous *Survey*. Recent reforms to the minimum-wage-setting framework are welcome. Minimum wage increases will henceforth be limited to real GDP growth plus the rate of inflation, whereas previously they had been set by regional governments largely without regard to local labour market

conditions (Chapter 1). Using this formula, GDP growth in Q2 2015 of 4.7% and September 2015 inflation at 6.8% resulted in a minimum wage increase of 11.5% across all provinces in 2016, well below the rises accorded in previous years.

However, one problem with this arrangement is that GDP may grow for reasons other than average productivity growth, for instance due to demographics or increases in the participation rate: there is no justification for wage increases for these reasons. In any case introducing a sub-minimum wage for youth would be useful.

The restrictiveness of hiring and dismissal rules in Indonesia far outstrips those of almost every other country in the world (Figure 20, Panel A). For instance, to dismiss a worker with one year's seniority, the mandated redundancy payment is 58 weeks of pay (Panel B). Putting in place a comprehensive unemployment insurance scheme, as was done in Chile in 2002 and in Korea in 2005, would obviate the need for these large severance payments (Holzmann et al., 2011). More broadly, besides high minimum wages, labour restrictions protect insiders and encourage enterprises to operate informally. Indeed, some 60% of the nation's labour force works in the informal sector and thus suffer from minimal employment security, volatile incomes, very limited workplace health and safety regulation and an absence of pensions. Provisions have recently been made to extend social security systems to the informal sector, but uptake has been limited.

Figure 20. **Labour market rigidities in selected countries**



1. The indicator of employment protection legislation (EPL) measures the procedures and costs involved in dismissing individuals or groups of workers and the procedures involved in hiring workers on fixed-term contracts.

2. The cost of dismissing a worker after one year of employment, in weeks of salary.

Source: World Economic Forum; OECD Employment Protection Database.

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### Improving worker skills

Access to compulsory education in Indonesia has improved greatly over recent years (MOEC, 2013), and, as noted in the previous *Survey*, the academic performance of 15 year-olds is in line with Indonesia's level of development. However, less than a third of adults aged between 25 and 60 have an upper secondary education (OECD and ADB, 2015). Likewise, the skills of workers, as measured by the 2015 OECD Survey of Adult Skills (conducted only in Jakarta) (OECD, 2016b), are weak, with low levels of proficiency in literacy and numeracy. The dispersion of proficiency scores across adults is also wider than in most other participating

countries. The widest skill gaps across professional profiles are for English and computer skills followed by thinking and behavioural skills (di Gropello et al., 2011).

Skills mismatch is also a problem in Indonesia, with firms reporting difficulties finding skilled workers despite high unemployment among those with a tertiary education. In 2010, about 55% of tertiary graduates were “over-qualified” in their employment, the highest mismatch in South-East Asia (World Bank, 2010). Improving the skills of the workforce, particularly by improving the quality of schooling and access to adult education, is essential. Only around 5% of all firms in Indonesia offer formal training to their workers, considerably lower than in many other comparable countries (OECD, 2015a). Moreover, the dual nature of the labour market makes it unlikely that training will be offered to a large swath of the labour force working in the informal sector.

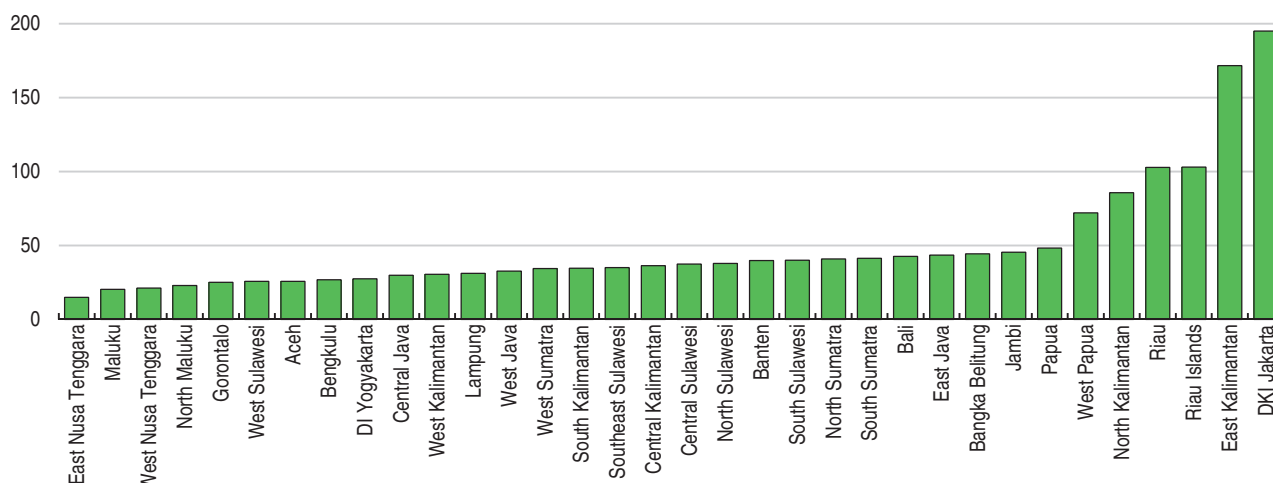
## Promoting regional development

In large part for political reasons the “big bang” decentralisations in 2001 and 2005 in Indonesia devolved substantial funds and authority to local governments, including responsibility for the administration and delivery of many public services and also the regulation of business and natural resources. The rationale for government decentralisation is better accountability and service delivery through increased responsiveness to local needs (Faguet, 2014), often called “subsidiarity”. Moreover, decentralisation can improve performance by promoting competition between regions in the efficient provision of services and attracting businesses – regions can draw lessons from each other and benefit from best practices (OECD, 2013). That said, care should be taken to avoid situations where inter-regional competition spurred by decentralisation leads to a race to the bottom in areas like fees and charges, and subsidies aimed at attracting business investment.


However, regional autonomy has not delivered the improvements that had been hoped for (Resosudarmo et al., 2014; Buehler, 2010; Moeliono et al., 2009; World Bank, 2009). The heterogeneity in economic and social outcomes remains large (Figure 21). This

Figure 21. **Per capita GDP across Indonesia's provinces, 2015**

Millions of rupiah per capita



Source: Statistics Indonesia.

StatLink  <http://dx.doi.org/10.1787/888933420754>

is despite a steady increase in transfers from central to sub-national governments, which now make up about half of the central government budget (net of subsidies and interest payments; about 6% of GDP).

Indonesia has set up special economic zones (SEZs) with a view to promoting investment in the regions. There are currently nine SEZs, and the government intends to set up 17 more by 2019. Free trade zones (FTZs) have been another strategy for promoting regional economic development. Only one FTZ was ever set up in Indonesia: the Batam, Bintan and Karimun Free Trade Zone (BBK FTZ), located on the Riau Islands close to Singapore. To date these zones have failed to attract significant investment or generate significant employment, due to their isolated locations, a shortage of infrastructure and lack of jurisdictional clarity. The government should experiment with different incentives in SEZs, including more flexible labour regulation, to extend proven good practices to the whole economy.

### ***Better targeting fiscal transfers and improving regional revenue raising***

Sub-national governments in Indonesia have very limited revenue-raising capacity, and the majority of their funding comes from central government transfers. In 2015 89% of all government revenue was collected by the central administration, while it handled only 47% of expenditure. Transfers from the central government are allocated directly to three sub-national levels of government: namely the provinces, the regencies/cities and villages. Districts are funded and administered by the regencies/cities. In broad terms there are three categories of transfers: i) equalisation funds; ii) deconcentration funds (to finance central government offices or agencies in the regions that deliver services directly); and iii) village funds. Equalisation funds are the largest and have been broken down into a number of subcategories including a General Allocation Fund (DAU) and a Special Allocation Fund (DAK). The DAU is by far the largest source of revenue for regional governments, with half earmarked for public-sector wages and salaries and the remainder unconstrained. The DAK is small by comparison, accounting for only 5% of regency/city revenues and 1% of province revenues, and is earmarked.

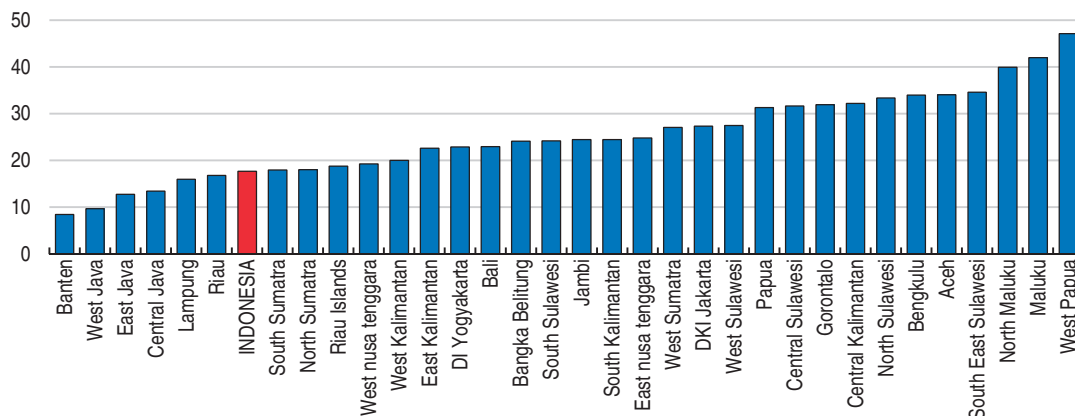
However, the central government's commitment to fund regional public-sector employment has led to mushrooming public-service jobs. Public employee compensation represents about 28% of total public expenditures. This share is especially high at sub-national levels and higher than on average in the OECD (23%), where the size of government is generally much greater. In addition, some regions have up to four times as many public employees per capita as others (Figure 22). A side-effect of this large public service has been a large share of regional capital spending on government office space (Lewis and Oosterman, 2011).

In the longer term, regional governments should be given block grants according to some fiscal equalisation formula that reflects sub-national needs and national priorities. However, due to the lack of capacity, many regional governments in Indonesia struggle to spend all of their annual budget allocations. Deposits held by local governments increased from IDR 90 trillion (USD 6.8 billion) in December 2015 to IDR 220 trillion in April 2016 – an increase of 140%. This frustrates constituents, including local businesses, and is hampering the central government both in its attempts to pursue national priorities such as improving infrastructure and also to provide fiscal stimulus during the current economic slowdown. In the short term, sub-national fiscal performance could be improved by tying grants more closely to specific programmes, particularly in areas of national



Figure 22. **Public employment across Indonesia's provinces, 2014**

Per 1 000 people



Source: CEIC database.

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priority, such as infrastructure investment. One way of doing so would be to make more use of the DAK, in which funds are allocated for particular purposes. The DAK has recently increased significantly to accommodate regional aspirations in order to accelerate the development and provision of infrastructure facilities. Furthermore, in order to become well targeted, the government is continuing to try to improve the DAK's allocation and disbursement mechanism. At the same time, greater efforts are needed to improve the technical capacity of regional governments so that they are in a better position to formulate spending priorities, raise revenues and administer budgets. The programme of secondments of officials from the central government to sub-national governments to facilitate skills transfer should be expanded. The government should also promote and broaden the scope of the system of national public-service training schools.

### **Boosting regional infrastructure investment**

The government has rightly emphasised infrastructure as a major impediment to Indonesia's economic development. However, infrastructure investment also needs to be encouraged at the sub-national level, given that half of all public spending is now at that level. A number of reforms could help in this regard. First, the central/sub-national budget process – including revenue estimation – could be improved to reduce uncertainties and interruptions that are inhibiting complex multi-year infrastructure projects. Second, greater efforts should be made to align sub-national projects with national strategies. Third, fiscal incentives should be sharpened so that sub-national governments ensure adequate upkeep of existing infrastructure, such as road maintenance. For example, national co-financing of sub-national road investment could be made conditional on such maintenance. Finally, land acquisition laws should be made more flexible to encompass regional diversity in land ownership traditions.

### **Improving public spending**

Despite impressive improvements over the last 50 years, including in achieving the Millennium Development Goals (MDGs), Indonesia still lags behind many other middle-income countries in terms of development indicators, including health (mortality rates and stunting), poverty, and educational outcomes. Better use of public money would

significantly boost the effectiveness of government policies and provide the fiscal space to further develop currently underfunded spending areas: for example, public health-care budgets represented only about 1% of GDP in 2015, although the government increased the budget allocation for health to 5% of total public expenditure in 2016 in a context of constrained public revenues.

### **Prioritising public governance by adopting best practices, especially at sub-national levels**

Broad spending targets (for example, 20% for education and 5% for health) currently shape government priorities but are inefficient because there are no constraints on how to use the funds (Blöndal et al., 2009). Closer correspondence between annual expenditure and clear medium-term objectives, together with performance-based budgeting, could significantly improve efficiency. This should be accompanied by systematic evaluation of existing and envisaged programmes and administration. Improvements are planned for the 2017 budget but will only apply to the central government.

As discussed above, governance challenges are major barriers to the efficient delivery of public services, especially at the sub-national level. There is an extreme diversity in performance across levels of governments and across regions (see KPK, 2014 for examples in the mining sector). This raises the importance of ramping up capacity building, notably through training. The efforts should be targeted towards regions in need, including those with low official ratings and difficulties in spending their budget allocations or reporting statistics. Digitalisation should also be exploited, as it hastens the circulation of information, reduces errors and improves transparency. Additionally, eradicating corruption would help considerably (see above). In particular, broadening the use of electronic procurement would limit bribery and also have positive effects on the quality and right-sizing of government projects.

### **Enhancing education, social assistance and health**

Education is an essential part of Indonesia's budget with a global spending target share of 20%, but outcomes have suffered from a lack of performance-related objectives. The education system should learn from the review of the teacher certification programme, which has generated an improvement in attained degrees for new teachers, but has above all increased the wage bill, with limited increases in teaching quality (Chang et al., 2014). The focus should gradually shift towards secondary education, because it is less well funded by international standards, especially for the poorest. Indeed, enrolment rates for those in the lowest income quintile are much improved for pupils under 15 but still drop significantly after that (World Bank, 2013).

Public outlays for social assistance (less than 1% of GDP) are particularly low, even compared with other middle-income countries (1.4% for India; 2.1% for China; 2.8% for Brazil; and 3.1% for South Africa), while poverty remains relatively prevalent. This justifies the expansion of conditional cash grant schemes, including replacing existing unconditional programmes, which tend to be fragmented and are not well-targeted. The development of a national poverty database (see below) is welcome and should be pursued through a comprehensive identification number system.

The goal of universal health coverage by 2019 involves a major fiscal commitment. Indeed, the extra amount required could be as much as an additional 2% of GDP by 2020 (Guerard et al., 2011), without considering expected increases in line with economic

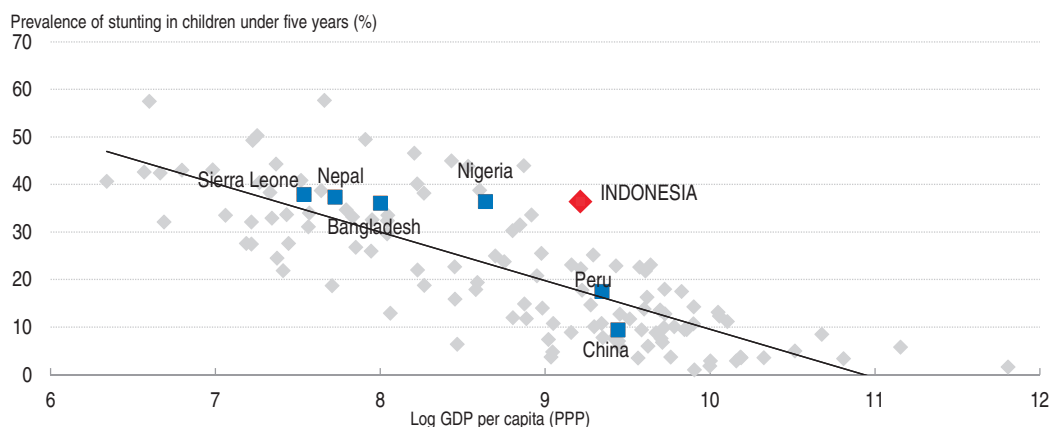
development (higher demand and supply, and lower out-of-pocket disbursements) and catching-up in health outcomes. Particular needs are to address shortages of hospital beds, especially in Java, and physicians. Chapter 2 of this *Survey* examines in more detail how to improve the efficiency of Indonesia's public spending, especially with regards to health, education and infrastructure.

### Confronting the perniciousness of childhood stunting

One specific health issue that urgently deserves more targeted resources is stunting (children having a low height for their age), which is associated with frequent and early exposure to undernourishment and/or illness. In Indonesia in 2013, 36% of all children under the age of five (8.4 million) were stunted. This is one of the highest rates in the world and puts Indonesia on par with countries with much lower GDP per capita, such as Bangladesh, Nepal and Sierra Leone (Figure 23). In 15 of Indonesia's 34 provinces the prevalence of stunting is above 40%, peaking at 48% in East Nusa Tenggara. Furthermore, 20% of Indonesian children under five (totalling 4.4 million) are underweight. The incidence of stunting has actually increased marginally in recent years, which may be related to the decentralisation of health-care services and the lack of resources and capacity at the sub-national level.

The effects of stunting are devastating for a child's future, as they are life-long and largely irreversible. They include delayed motor development, impaired cognitive function, lower IQ and poor school performance (Hoddinott et al., 2011; Grantham-McGregor et al., 2007). Moreover, stunted children do worse in school, earn less in adult life and are more susceptible to non-communicable diseases and obesity in adulthood (Bhutta et al., 2013; Hoddinott et al., 2011; Martorell et al., 2010). Given that young people are one of any nation's most precious resources, especially in Indonesia where there is an ongoing demographic bonus, the prevalence of stunting and its associated effects on cognitive capacity is a national tragedy, not only in terms of economic development but also for the young victims.

Figure 23. **Prevalence of stunting in children under five years and GDP per capita, 2013**



Source: International Food Policy Research Institute Global Hunger Index database; World Bank World Development Indicators database.

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Hoddinott et al. (2013) examine the economic rationale for investments that reduce stunting by constructing estimates of benefit–cost ratios for a set of nutritional interventions in a sample of 17 countries. Their estimated benefit-cost ratios average 18 across all sample countries but are the highest in Indonesia at 48. This suggests that anti-stunting programmes compare favourably with other investments competing for public funds.

Policies are in place to tackle early-childhood undernourishment and illness. For instance, in September 2012, the government launched the “First 1 000 Days of Life Movement”, which aims to accelerate nutrition improvement by promoting breastfeeding (only around 40% of infants under six months are exclusively breastfed) and distributing vitamins and nutrition supplements for pregnant and breastfeeding women and children and medicines to prevent and treat malaria in pregnant women and children. However, slow progress clearly suggests that more needs to be done. Indeed, high levels of food insecurity and relatively high prices for basic staples may well contribute to the prevalence of undernourishment (see below).

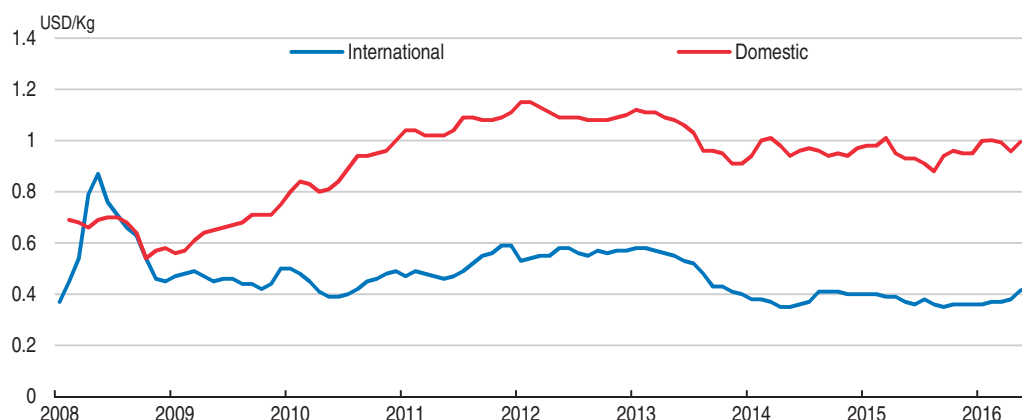
## Ensuring food resilience

Food resilience is meant to ensure food availability, especially to the poor, at reasonable prices (Dawe and Timmer, 2012). This is not the same as self-sufficiency, which in Indonesia may be very hard to achieve due to the lack of well-suited land (Dawe, 2013). Indeed, pursuit of self-sufficiency may hinder resilience, as import restrictions to try to achieve self-sufficiency increase food costs, leaving people more exposed to local food-supply shocks, and hinder the agricultural sector’s competitiveness and productivity (OECD, 2012b). Food resilience has improved in recent years, with only 15% of districts considered vulnerable in 2015, down from 22% a decade ago (FSC et al., 2015). The MDG target to halve hunger and extreme poverty between 1990 and 2015 was largely achieved.

Food policy in Indonesia encompasses a number of programmes and represents about 7% of total public spending. The authorities’ focus has been mainly on price stability and national self-sufficiency in core products. Rice is key, as it makes up 50% of dietary energy supply. Rice prices in Indonesia over the last eight years have both been more volatile and higher than Thai export prices (Figure 24). Indeed, Indonesia has the highest wholesale rice price in emerging Asia, which is a particular burden on low-income households. OECD (2015c) concluded that global price hikes are not as important as domestic disaster scenarios as regards food resilience in Indonesia.

Intervention in the food market is in large part managed by National Logistics Agency (BULOG), a state-owned enterprise that manages stocks to moderate price fluctuations by buying rice directly from farmers and controlling imports. However, the ratio of rice stocks to domestic demand has been declining due to insufficient production and imports: in 2016 it was only 2.6% versus 4.7% in 2014, by far the lowest amongst ASEAN economies and also below what is considered the optimum level of 20% (AFSIS, 2015).

Relief to low-income households is provided by RASKIN, a government programme (about 1% of total spending in 2015) providing the poorest 15 million households with 15 kg of subsidised rice per month. However, as highlighted in the previous *Survey* (OECD, 2015a), only a third of this support goes to intended beneficiaries, who often end up paying more than the intended subsidised price and receive only a portion of their quota (Banerjee et al., 2015). Progress is being made in addressing this situation with the

Figure 24. Indonesian and international rice price<sup>1</sup>

1. Domestic refers to Indonesia national average retail price. International corresponds to the Thai export price (25% broken).

Source: FAO, Food Price Monitoring and Analysis Tool.

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implementation of a national poverty database (PPLS14) covering 40% of the lowest income households. To be effective, the database needs to be regularly updated (OECD, 2015a).

The government should replace RASKIN with a targeted voucher system to allow diversification of food consumption. BULOG's monopoly on the distribution of rice should also be removed to let other potential actors (domestic and foreign traders) compete, thereby obtaining likely efficiency gains. In addition, food supply should be further liberalised by removing most import barriers. Regional agricultural cooperation in Asia would also allow a better management of supply, while at the same time reducing import restrictions and providing some risk-sharing against crop failure. That said, a previous attempt at such cooperation (the ASEAN Emergency Rice Reserve) was ineffective due to very low national reserve requirements. The revised agreement (ASEAN Plus Three Emergency Rice Reserve), launched in early 2013, is more ambitious, with large commitments from China, Japan and Korea, but is untested. In Indonesia, BULOG's role should be refocused as the manager of emergency food reserves (OECD, 2015c).

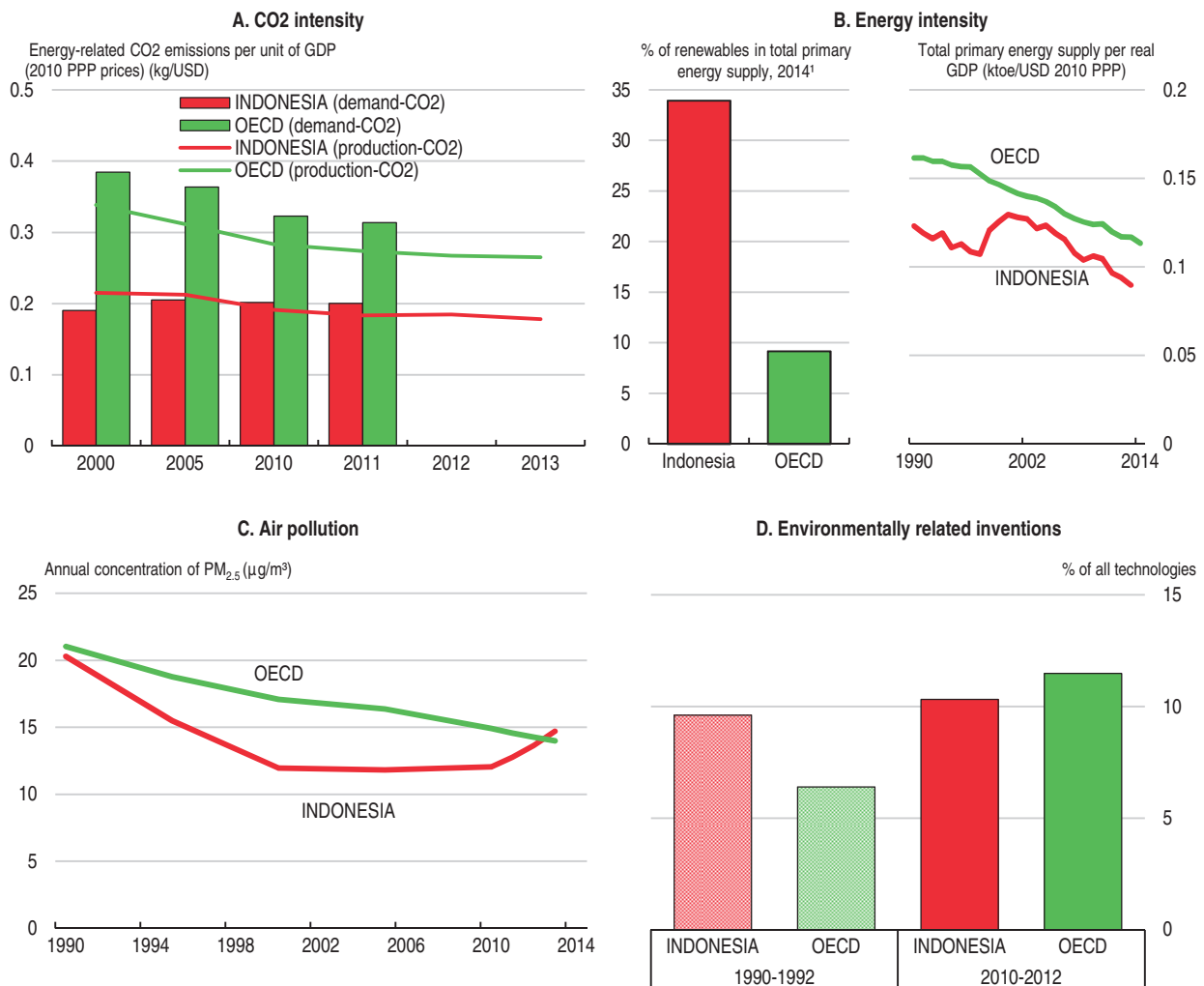
Another facet of food policy is a set of fertiliser subsidies, totalling about 3% of public spending in 2015, that are intended for small farmers. Around a third of these subsidies was misallocated in 2015 and largely benefited the largest farms (Reuters, 2016). Moreover, there is strong evidence that fertiliser subsidies ultimately discourage farm output (Armas et al., 2012). OECD (2015c) argues that the subsidies are ineffective in strengthening food resilience and have only a weak impact on food prices. The government should instead provide insurance against bad harvests as the best means to maintain farmers' revenue and investment. There has been recent progress on this front. Fertiliser subsidies should be phased out, and outlays should be reoriented. In particular, the government should refocus its efforts to boost output on improving agriculture-related infrastructure.

## Deforestation and other environmental challenges


Indonesia is rich in a wide variety of natural resources, which were generating as much as half of export revenue and a quarter of GDP before the recent downturn in commodity prices. However, exploiting them may produce important externalities. For example, dealing with climate change means that a large share of Indonesia's fossil fuel

(especially coal) reserves may need to remain in the ground – at least until low-polluting technology becomes available. Indonesia’s emissions of greenhouse gases per unit of output are relatively low by OECD standards (Figure 25, Panel A) but will need to fall substantially to meet its target of emissions 29% below business-as-usual projections in 2030 (41% with international support).

Figure 25. **Environmental indicators**



1. OECD considers biomass as a renewable energy. This explains the difference with Figure 15.  
Source: OECD Green Growth Indicators.

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### Air pollution

Forest fires may be responsible for the most acute individual episodes of air pollution, affecting both Indonesia and neighbouring countries. Coal-fired power generation, neighbouring countries’ activities, rapid urbanisation and concomitant increasing road traffic and congestion are also important causes of deteriorating air quality (Figure 25, Panel C).

Between June and October 2015, large fires flared up in natural forests and peatlands, threatening unparalleled reserves of biodiversity. That year, about 2 million hectares of

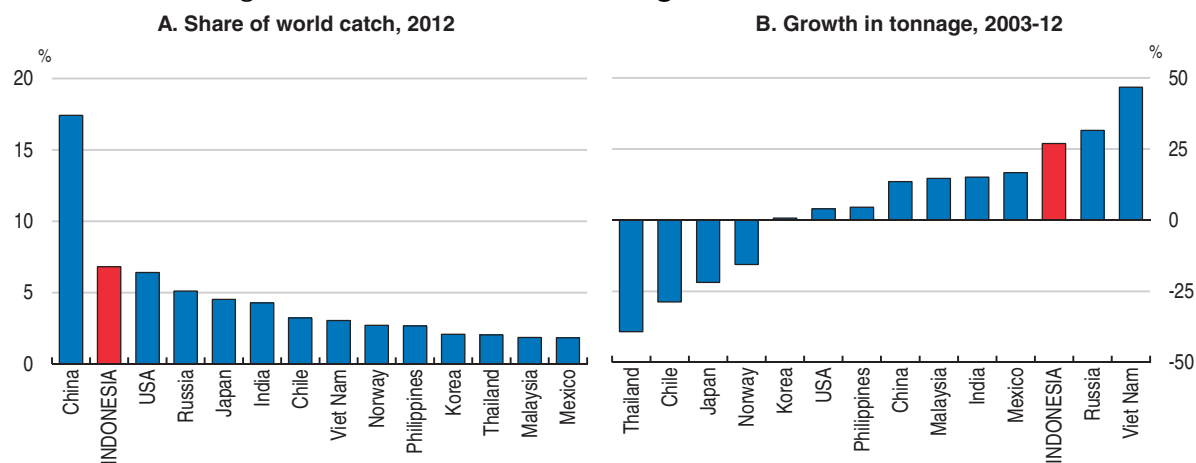
land burned, costing Indonesia USD 16.1 billion (World Bank, 2015). The smoke from a similar event in 1998 resulted in an estimated 11 000 deaths (Marlier et al., 2013) and affected 75 million people in six countries (Stolle and Tomich, 1999). Reductions in fire-related emissions account for a significant part of the 29% cut in greenhouse gas (GHG) emissions by 2030 promised by the Indonesia government in the context of COP21. The government estimates that deforestation and fires account for 63% of the country's GHG emissions (Indonesian Government, 2015). Fires are a cheap and frequently utilised tool for clearing land for cash crops, notably palm oil and plantation timber. Unclear land tenure is also a contributing factor, as initially burned areas were often appropriated illegally. Burning to clear land is prohibited, but enforcement has proven difficult due to diffuse responsibilities across different level of governments, weak capacity at the sub-national levels and low fines.

Palm oil in particular generates significant fiscal earnings and stimulates economic growth in rural areas, but its expansion often occurs at the expense of natural forests, endangered animal and plant species, and the quality of life of local and indigenous communities. While a 2011 Presidential moratorium (renewed in 2015) was declared on new plantation licenses, it does not limit activities or expansion by existing license holders and appears insufficient to curb GHG emissions from forest fires (Busch et al., 2015). Those failures should spur the authorities to tackle the issue by toughening legislation and its enforcement, and by increasing penalties. Spatial mapping should also be pursued to help stop illegal exploitation. Incentives to increase productivity rather than acreage (notably through the use of higher-quality seeds, better processing and transportation, and the grouping of smallholders into cooperatives) should be promoted, along with the use of environmental certification. Indeed, the labour productivity of the palm oil industry is about 40% higher in Malaysia (Sigit, 2015).


## Fisheries

Indonesia is at the centre of one of the world's major fishing areas; its catch is the second largest in the world, after China's, and is growing rapidly (Figure 26, Panels A and B). While traditional informal management systems operate in some areas, most of the fisheries in the region are fully or over-exploited. Destructive fishing techniques are

Figure 26. **Indonesia's share and growth in world fisheries**



Source: FAO (2014), "The State of World Fisheries and Agriculture", United Nations Food and Agriculture Organisation.

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damaging the environment, especially coral reefs, which are already at risk from global warming. Government support for the industry through fuel subsidies and infrastructure is significant. Though the main growth in Indonesian fishing is in pisciculture, the capacity of the traditional fishing industry is still growing, raising sustainability risks.

### **Renewables and energy**

Indonesia's geothermal potential stands at nearly 30 gigawatts (GW) – about 40% of world capacity – of which only 5% is currently being used (Nasruddin et al., 2016). Similarly, only 4% of Indonesia's estimated 75GW of hydroelectricity potential is currently exploited. The government intends to tap those resources and increase the use of renewables to 23% of primary energy by 2025 from about 6% in 2011 (Figure 14). However, coal is projected to become the largest contributor to the energy mix (rising from 24% to 30%). This runs counter to efforts to fight climate change, since coal-fired generation produces approximately twice the GHG emissions as gas. Moreover, there is significant scope to improve the energy efficiency of Indonesia's coal-fired power plants (OECD, 2015a).

As discussed above, the supply of and access to electricity remains an issue in Indonesia, particularly in remote regions. The government plans to increase generating capacity by 35GW by 2019. To that end, further liberalisation of the foreign direct investment regime is required. The 45% limit on foreign ownership in power plants generating less than 10 MW should be removed as it particularly affects those using renewables (including energy from wind, photovoltaic and biomass) and those in remote regions.

Indonesia also supports biodiesel to decrease carbon emissions and reduce imports. In 2016 a mandatory blend of biodiesel with motor fuel was set at 20% (up from 15% in 2015): to that end about 8% of crude palm oil production is to be used for this purpose in 2016. To compensate for higher costs, the government has introduced a varying subsidy on biodiesel, currently at IDR 5 000 per litre, which is funded from a USD 50 per barrel levy on crude palm oil exports. However, biofuels are cost-inefficient, have a limited effect on GHG emissions and energy security, and push up world crop prices (OECD, 2008), though second-generation processing technologies seem to be better.

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## ANNEX A.1

*Progress in structural reform*

This table reviews action taken on recommendations from previous *Surveys*. Recommendations that are new in this *Survey* are listed at the end of the relevant chapter.

Recommendations in previous <i>Surveys</i>	Action taken since March 2015
<b>a. Fiscal, monetary and financial policy</b>	
Deepen and broaden financial markets by making more room for non-banks and the stock market in financing the economy.	The Financial Market Deepening Blueprint was prepared as a guideline for the improvement and development of financial market structure for the upcoming 5-10 years. The Blueprint contains guidance for money market development programmes along with the foreign exchange market, sharia financial markets and bond market (coordinative). Financial market development shall be achieved through five strategies, namely (i) the development of instruments and the investor base; (ii) strengthening regulations and standardization; (iii) infrastructure development; (iv) institutional strengthening; as well as (v) effective education and dissemination. Development based on the five strategies is expected to create deeper, more liquid and efficient financial markets, thus supporting monetary policy effectiveness, financial system stability and economic development financing. Indonesia continues to accelerate financial market deepening initiatives to reduce the pressure on the foreign exchange market. The recent Bank Indonesia's (BI) recent initiatives include (i) simplifying foreign exchange transactions; (ii) allowing market participants to do netting in forward transactions; as well as (iii) expanding the documentation required in foreign exchange transactions
Further develop the foreign exchange market by reducing the role of BI, generalising hedging and options, and enlarging the class of assets underlying the transactions.	Bank Indonesia encourages the private sector to manage their foreign exchange risk through FX hedging transactions. On 1 January 2015 BI implemented regulations that require non-bank corporate borrowers of foreign debt to maintain a minimum hedging ratio of 20%. A current update of BI's Financial Deepening Programme include regulations concerning the Jakarta Interbank Offered Rate, Net Open Position of Commercial Banks, forex to IDR trading within banks and among domestic or foreign parties, and the Interbank Sharia Money Market.
Raise government tax revenues in order to fund a needed longer-term increase in government spending. Revenue could be raised by bringing more self-employed into the tax net and by improving the effectiveness of tax collection.	Since 2013, the Director General of Taxation (DGT) has been implementing simplified schemes to bring more SMEs into the tax net by setting the rate of tax on turnover at 1%. DGT is very active in strengthening cooperation and coordination with many other institutions with a view to sharing information to capture unregistered taxpayers and initiating shadow economy mitigation.
Introduce a carbon tax at an initially low rate.	No action taken.
Allocate more tax audits on the basis of risk assessments, and eliminate automatic audit requirements. Increase the number of government auditors.	To improve the effectiveness of tax collection, DGT started to develop and implement Compliance Risk Management (CRM) in 2014, which will assist in decision making and resource allocation based on taxpayer risk. In 2015 the project focused on audit and compliance assurance. Tax collection and other functions will follow in the coming years. In early 2015 DGT established a Centre for Tax Analysis (CTA), a unit dedicated to enhancing its capacity to identify and assess revenue risks. This unit distributes potential uncollected revenue (tax gap) and taxpayers' non-compliance behaviour/pattern to all tax offices.

Recommendations in previous Surveys	Action taken since March 2015
<b>B. Promoting inclusive and sustainable economic growth</b>	
Direct more public resources to improving education access and outcomes. Continue regular teacher assessments and professional development, and link teacher salaries more closely to qualifications and performance.	No action taken.
Raise public spending on infrastructure. Focus on transportation and logistics to support industry, as well as natural disaster prevention and water treatment.	The government is supporting 14 industrial areas outside of Java with investments in roads, ports, railways, airports, and sanitation in 2016. Policy is targeting lowering port dwelling time to 3-4 days by 2019 and targeting lowering logistic cost to 19.2% of GDP by 2019.
Avoid protectionist measures that inhibit openness to trade and foreign investment with uncertain development payoff.	Indonesia has revised the negative investment list in 2016 to provide more opportunities for both foreign and domestic investors. Some trade restrictions have been relaxed as a result of implementation of economic policy packages.
Lower electricity subsidies, and have recourse to cash transfer schemes to compensate poor households for the rise in electricity prices.	Electricity subsidies are being further lowered in 2016.
In provinces where minimum wages are high in relation to average wages, resist real increases that exceed trend productivity gains. Introduce a subminimum wage for youth directly linked to the general minimum wage. Reduce onerous severance payments and ease dismissal procedures in the formal labour market. In return introduce unemployment benefits coupled with individual unemployment savings accounts.	As of 2016 minimum wage increases are limited to real GDP growth plus the rate of inflation. Using this formula, real GDP growth in Q2 2015 of 4.7% and September 2015 inflation at 6.8% resulted in a minimum wage increase of 11.5% across all provinces in 2016.
Improve the enforcement of intellectual property rights.	No action taken.
Remove formal education from the negative investment list.	No action taken.
Encourage tertiary education financing through student loans.	No action taken.
Create a national training fund to consolidate resources allocated to training and direct them to their most cost efficient use.	No action taken.
<b>C. Reducing poverty and inequality</b>	
Increase, and further improve targeting of, spending on poverty alleviation and health measures. Direct more public resources to improving education access and outcomes.	The target recipient of Healthy Indonesian Card ( <i>Kartu Indonesia Sehat/KIS</i> ) has been extended to also include Person with Social Welfare Problems ( <i>Penyandang Masalah Kesejahteraan Sosial/PMKS</i> ), babies who were born using the Contribution Assistance Recipient ( <i>Penerima Bantuan Iuran/PBI</i> ). In 2015, KIS has reached 88,2 million of poor community and less capable. In 2016, the participant of PBI is targeted to 92,4 million people, with additional 3,8 million of poor community, and 1,8 million of unregistered PMKS, as well as 400 thousand babies from PBI participants.
Increase financial inclusiveness by further developing branchless banking, drawing lessons from such countries as India, Mexico, the Philippines and Kenya.	The BI financial inclusion programme consists of a transformation from an inefficient cash society to less cash society entailing wider use of safe and efficient electronic money, and credit and debit cards. BI and relevant institutions (the Coordinating Ministry of Economic Affairs, Ministry of Finance, DKI Jakarta Province Government, and the Association of Indonesian Provincial Governments) as well as industry participants in the payment system under the Association of Payment System in Indonesia (ASPI) launched the Non-Cash National Movement (GNNT) in August 2014. Going forward, to expand financial access to unbanked and under-banked people in remote areas, BI provides a Digital Financial Services (DFS) programme. The DFS not only serves as a means to open financial access, but is in line with Non-Cash National Movement since its launch in 2014. There 24 561 DFS agents (individual and legal entity agents) in February 2015, including PT Post Indonesia, covering around 418 of 537 regencies/cities, and reaching over one million customers.
Tackle labour market informality by reducing rigidities in the formal sector, and by enhancing the effectiveness of the tax-transfer system for poverty alleviation and channelling other social benefits.	No action taken.
Continue building a single registry of vulnerable households to better target assistance.	The national poverty database (PSP14) is regularly updated and expanded. Statistics Indonesia conducts National Economic Social Survey ( <i>Susenas</i> ) annually, which includes data of national poverty rate.

Recommendations in previous <i>Surveys</i>	Action taken since March 2015
<b>D. Better regulation and reducing corruption</b>	
Improve mechanisms to prevent corruption, while further increasing efforts to combat all forms of corruption.	No action taken.
Expand support to sub-national governments for capacity building, including the provision of technical and administrative assistance by the central government.	No action taken.
<b>E. Making the most of natural resources while preserving the environment</b>	
Refocus the mineral ore export ban based on an evaluation of the costs and benefits of onshore processing for each mineral. Provide infrastructure and electricity to the new smelters.	The Power Supply Business Plan by PT PLN (the National Electricity Company) provides for smelter and new industrial area developers to build their own power plants to support their electricity demand. It also allows companies to use power plants owned by other Electricity Supply Business Licensees (IUPTL) and/or use distribution and PT PLN's transmission network through power wheeling schemes.
Increase agricultural productivity by providing technical assistance and training, including through agreements between smallholders and large estates. Increase farmers' access to credit by accelerating land titling. Lower food prices by decreasing trade restrictions.	An insurance scheme for small farmers is being introduced to protect farmer incomes in the case of poor harvest to low prices.
Devote more resources to enforcing laws against illegal forest clearing, logging and mining.	<p>Since 2013, the Ministry of Environment and Forestry has been tackling and preventing illegal logging activities by implementing a timber legality verification system in the management of production forests in Indonesia. The timber legality verification system is a system that ensures sustainability of forest management and / or legality of timber and timber tracking through the Certification of Sustainable Forest Management Assessment and Certification of Timber Legality and Suppliers Declaration of Conformity.</p> <p>Negotiations of a timber verification agreement with the European Union have entered their final stage. A legality verification system has also been recognised by Australia and can meet the legality assurance with enforcement of the law on illegal logging prohibition.</p> <p>Additional funds have been allocated in the national budget to support activities related to the promotion, and capacity building in timber legality verification systems.</p> <p>The implementation of timber legality verification system in 2013 has resulted in a reduction of the number of cases of illegal logging but further monitoring will be needed in the years to come.</p>
Reduce greenhouse gas emissions by further developing clean power, especially geothermal.	<p>The Indonesian government encourages the development of geothermal power plants to facilitate the purchase of electricity from geothermal power and geothermal steam by PT PLN. Meanwhile, to speed up its development, geothermal capacity of 4.8MW has been added to the list of Power Plant Development Acceleration Program Phase II.</p> <p>The draft National Electricity General Plan for the period of 2015-34 implements the National Energy Policy which aims at a geothermal share of energy supply of at least 23% by 2025 and 31% in 2050.</p>

## ANNEX A.2

*The ore export ban and mining sector divestment rules*

In January 2014 the Indonesian government imposed a ban on the export of unprocessed minerals, including nickel, bauxite, copper and iron. As discussed in the previous Survey, the intention was to force companies to add value domestically before exporting, thereby stimulating activity and employment in the ore processing and smelting sector. The ban was legislated in 2009, but, in the face of strong resistance from industry, the government hesitated to pull the trigger until the end of the term of the previous president. The timing was particularly unfortunate, coinciding with a substantial decline in global demand and the end of the commodity super cycle.

In its original form the regulation banned the export of all unprocessed minerals, including unsmelted concentrates. The result was an almost complete cessation of the export of some minerals, including copper and nickel for a number of months in the beginning of 2014. A transitional arrangement was quickly put into place to account for the long lead times required for the construction of refining and smelting capacity and the required accompanying energy and transport infrastructure. Until January 2017 companies that export concentrates with a minimum purity of 15% and that provide sufficient demonstration of their commitment to build a refining facility can continue to export, although subject to progressively higher export taxes, starting at 20% in mid-2014 and reaching 60% by mid-2016.

Around the world, there was an increased incidence of export restrictions during and after the 2003-11 commodities super cycle. Indonesia's 2014 mineral export ban was nonetheless relatively unique. As documented by OECD (2014), of the 371 export restrictions in force on minerals and metals, only 23 were quantitative and only three were outright bans.

The ban had an immediate and dramatic effect on the production and export of a number of minerals. For instance, Indonesia's production of bauxite fell from 55.7 million tonnes in 2013 to only 2.5 in 2014 and an estimated 1.0 in 2015. Malaysia took this opportunity to increase production from 0.2 million tonnes in 2013 to 3.3 million in 2014 and estimated 21.2 in 2015 (US Geological Survey, 2016). Likewise exports of copper ore and concentrates effectively ceased for the first six months after the ban was imposed.

Some progress has been made in building smelters, but many companies are struggling to make the economics work, particularly in an environment of low prices and weak international demand. Lack of transport and energy infrastructure to support the construction and operation of smelters is holding back progress, as are the complicated multi-tiered regulatory requirements. As to nickel, of which Indonesia is the world's fourth

largest producer, three smelters have been built, with another project expected to be completed in 2017. Low world nickel prices, which jumped with the announcement of the Indonesia export ban but have fallen steadily since, have caused delays and cancellation among the remaining smelter projects, meaning few, if any, are likely to be operational before 2017. The four new smelters will double Indonesia's nickel smelting capacity, creating an estimated 17 500 new manufacturing-type jobs (Terauds, 2016). In the bauxite sector progress has been particularly fraught. Alumina smelters are especially energy intensive, requiring large accompanying power-generating infrastructure. Despite a flurry of announced plans to build new alumina smelters immediately after the ban was put in place, not one new smelter has been constructed. The simple reasons are, first, that sufficient smelter capacity exists elsewhere in the world, and, second, alternative bauxite reserves have come on line in Malaysia and Australia to replace the interrupted supply from Indonesia (Home, 2015).

Overlaying the ore export ban are Indonesia's divestment requirements facing foreign owners of mining interests. As the rules currently stand, divestment to a maximum foreign investment of 49% is required after 10 years of commercial production. In the case that foreign interests take over an entity with some local ownership, the rules are even stricter. Recently, changes have been proposed aimed at providing relief to firms engaged in mineral processing. Specifically, a company with foreign investors that engages only in processing and refining will not be subject to any divestment requirements, and the foreign shareholders of a company that holds a mining permit and is also engaged in processing and refining will now be required to divest up to 40% of its shares to Indonesian interests by its 15th year of commercial production.

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