This Overview is extracted from the 2018 Economic Survey of Brazil. The Survey was discussed at a meeting of the Economic and Development Review Committee on 13 November 2017 and is published on the responsibility of the Secretary-General of the OECD.

This document, as well as any data and any map included herein, are without prejudice to the status of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.

The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli authorities. The use of such data by the OECD is without prejudice to the status of the Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of international law.

OECD Economic Surveys: Brazil © OECD 2018

You can copy, download or print OECD content for your own use, and you can include excerpts from OECD publications, databases and multimedia products in your own documents, presentations, blogs, websites and teaching materials, provided that suitable acknowledgement of OECD as source and copyright owner is given. All requests for public or commercial use and translation rights should be submitted to rights@oecd.org. Requests for permission to photocopy portions of this material for public or commercial use shall be addressed directly to the Copyright Clearance Center (CCC) at info@copyright.com or the Centre français d’exploitation du droit de copie (CFC) at contact@cfcopies.com.tatus of or sovereignty over any territory, to the delimitation of international frontiers and boundaries and to the name of any territory, city or area.
Executive summary

- Sustaining inclusive growth with further significant reforms
- Stronger investment and productivity are key for future growth
- Brazil can seize greater benefits from greater global and regional integration
Sustaining inclusive growth with further significant reforms

Over the past two decades, strong growth combined with remarkable social progress have made Brazil one of the world’s leading economies, despite the long recession that began in 2014 and from which the economy is now slowly emerging. However, inequality remains high and fiscal accounts have deteriorated substantially, calling for wide-ranging reforms to sustain progress on inclusive growth. A better focus of social expenditures towards the poor would reduce inequality and ensure sustainability of public debt at the same time. This will require difficult political choices, particularly in pensions and social transfers. Reducing economic transfers to the corporate sector, in conjunction with more systematic evaluations of public expenditure programmes, will strengthen growth, improve economic governance and limit the future scope for rent seeking and political kick-backs. Fighting corruption will require continuing reforms to improve accountability.

Stronger investment and productivity are key for future growth

Growth, which was supported by a rising labour force over many years, will slow down due to rapid population aging. Maintaining the growth potential of the economy requires stronger investment, which could also raise productivity and concomitantly, the scope for future wage increases. Public spending has crowded out private investment in the past, and the absence of well-developed private financial markets with longer maturities has hindered the flow of savings into more efficient projects, including infrastructure. Simplifying taxes, reducing administrative burdens and streamlining licensing would raise investment returns. Stronger competition will allow high-performing enterprises to thrive and will further enhance investment opportunities.

Brazil can seize greater benefits from greater global and regional integration

Integration into global trade is much lower than in other emerging markets as trade barriers shield enterprises from global opportunities and foreign competition. Exports and growth could be stronger if firms could source the best inputs and capital goods from international markets. More exposure to trade will also lead to rising productivity among domestic producers as they improve efficiency and seize new export opportunities. This would create new jobs across the economy, but especially for those with lower skills and incomes, making growth more inclusive. Consumers would also benefit from more competitive prices, with particularly strong effects among low-income households. A stronger integration into the global economy would be an effective way to enhance competition and would help the most productive firms and industries to succeed, although a select few sectors would see their output decline. Well-designed policies that protect workers rather than jobs through a combination of training and income protection, can shield the poor and vulnerable from the burden of adjustment, ensuring inclusive growth.
### MAIN FINDINGS

<table>
<thead>
<tr>
<th>Improving macroeconomic policies and economic governance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal outcomes have deteriorated substantially since 2014 reflecting mostly increases in expenditure. A primary surplus of around 2% of GDP is required to stabilise public debt in the medium term.</td>
</tr>
<tr>
<td>Social transfers have raised spending, but only few of them reach the poor.</td>
</tr>
<tr>
<td>The Central Bank has conducted monetary policy in an independent way but formalising this independence would strengthen monetary policy effectiveness.</td>
</tr>
<tr>
<td>Targeted industrial support policies have generated substantial rents without effects on investment or productivity.</td>
</tr>
<tr>
<td>Political consensus building has required costly and inefficient expenditures without systematic audits and reduced the effectiveness of the public sector. This has been a key obstacle to passing reforms.</td>
</tr>
<tr>
<td>Public procurement has been subject to large-scale corruption.</td>
</tr>
</tbody>
</table>

### KEY RECOMMENDATIONS

| Implement the planned fiscal adjustment through permanent spending cuts. |
| Gradually raise the retirement age. |
| Delink benefit floors from the minimum wage. Shift more resources towards transfers that reach the poor, including Bolsa Familia. |
| Scale back sector- and location-specific industrial support policies, including tax benefits. Evaluate existing programmes. |
| Limit political appointments, especially in state-owned enterprises. Strengthen performance incentives in public companies. Undertake more systematic audits of all expenditures, including parliamentary budget appropriations. |
| Consolidate consumption taxes at the state and federal levels into one value added tax with a broad base, full refunds for input VAT paid and zero-rating for exports. Reduce barriers to entry due to administrative procedures. Focus BNDES lending activities on niche areas where the private sector finds it difficult to operate, including in the financing of small start-ups and innovation projects. Use BNDES more to arrange syndicated loans for infrastructure and lead the creation of structured financial instruments. Provide more training to officials involved in infrastructure structuring. Make wider use of BNDES’ technical capacity to assist public entities in project structuring, especially local governments. Make wider use of public-private partnerships but ensure that all present and future liabilities are taken into account in a transparent way. |
| Lower tariffs and scale back local content requirements. Bolster training and job search assistance programmes for affected workers. |
| Ensure continuous decreases in deforestation, including through stronger enforcement and maintaining the status of areas currently under environmental protection. |

---

### Raising investment

A challenging business climate including high tax compliance costs, high costs of capital and high administrative burdens curb investment returns while weak competition misallocates resources. Long-term credit has been dominated by the national development bank BNDES, which creates an uneven playing field and may hamper the development of private investment financing. The recent decision to phase out subsidies in its lending operations will allow a redefinition of the role of BNDES. Weak project structuring has been holding back private participation in infrastructure financing. Concessions cannot be used in projects where user fees are not possible.

---

### Fostering the integration into the world economy

High barriers to international trade reduce benefits from integration into the global economy. Greater integration into the global economy will reallocate jobs across firms and sectors.

---

### Strengthening green growth

Deforestation has declined up to 2014 but risen again since then.
Assessment and recommendations

- The economy is gradually emerging from the recession
- Inflation has declined but financial intermediation could be improved
- Fiscal outcomes need to improve to ensure the sustainability of public debt
- Improving governance and reducing corruption
- Raising investment is a key policy priority
- Supporting the integration with the region and the world economy
- Green growth challenges
Strong growth and remarkable social progress over the past two decades have made Brazil one of the world’s leading economies, despite the deep recession that the economy is now emerging from. Macroeconomic stability, favourable demographic trends and external conditions allowed an expansion of private and public consumption, in the context of solid employment and wage growth. A buoyant labour market coupled with improving access to education and extensive transfer programmes allowed millions of Brazilians to move into better jobs and attain better living standards. As 25 million Brazilians have escaped poverty since 2003, growth has become much more inclusive. These are remarkable achievements.

However, Brazil remains one of the most unequal countries in the world. Half of the population receives 10% of total household incomes, while other half holds 90%. Severe inequalities continue to put women, racial minorities and youths at a disadvantage. Male workers are paid 50% more than women, a gap that is 10 percentage points higher than the OECD average. Women are also more likely to have informal employment. Poverty is highest among children and unemployment among youths is more than twice the overall average. These inequalities tend to feed off of each other, considerably limiting the ability of part of the population to fulfil their productive potential and improve their lives. Brazil performs well in only a few measures of well-being, including subjective well-being and social connections, but below average in income and wealth, jobs and earnings, housing, environmental quality, health status, safety, education and skills (Figure 1). At the same time, there has also been considerable progress. Besides falling inequality and poverty, the gender gap in labour force participation has halved since 1990, and with 52% of women participating in the labour force, Brazil exceeds the average of OECD or Latin American countries.

![Figure 1. Well-being indicators](http://dx.doi.org/10.1787/888933655187)

*Note:* Each well-being dimension is measured by one to four indicators from the OECD Better Life Index set. Normalised indicators are averaged with equal weights. Indicators are normalised to range between 10 (best) and 0 (worst) computed over OECD countries and non-OECD countries according to the following formula: (indicator value - minimum value) / (maximum value - minimum value) x 10.

Since the turn of the millennium, a rising labour force lifted per-capita incomes while rising commodity prices supported public revenues (Box 1). But this growth model is now largely exhausted and the recession has brought long-standing structural imbalances to the fore. Brazil’s population has started to age rapidly and the sustainability of public finances can no longer be taken for granted. Policies have been slow in adapting to this new situation. Attempts to remedy longstanding policy-induced competitiveness challenges with generous subsidies and transfers to domestic companies helped little as they failed to solve the real problems. Rising public spending has in part come at the cost of lower private investment. This and other factors including deteriorating terms of trade, political turmoil and corruption allegations have led to a decline in investment by around 30% since 2014. Inflation rose into double digits. In this context, confidence in economic policies and business prospects declined sharply, leading the economy into a deep and prolonged recession in 2015 that wiped out almost 7 years of growth and doubled unemployment (Figure 2). Labour productivity growth began to stagnate in 2010, even before demand declined.

Figure 2. The economy is recovering and productivity growth has slowed down


StatLink: http://dx.doi.org/10.1787/888933655206
Further advances in living standards will hinge on finding a new inclusive and green growth strategy, ensuring actively that the benefits of growth will be broadly shared across the population as a whole. Productivity will have to become the principal engine of growth, but that will require significantly higher investment and a wide-ranging agenda of microeconomic reforms. This would also contribute to create more and better remunerated jobs for all Brazilians. There is a tight nexus between raising productivity and making growth more inclusive. Improvements in productivity require not only more investment in physical capital, but also in the skills of people, which will in turn help everyone to contribute to stronger productivity growth and ensure that it benefits all parts of society (OECD, 2016e, World Bank, 2018).

Box 1. A glance at Brazil’s recent economic history

Brazil’s economic history is characterized by significant economic volatility until 1994. Between the return to democracy in 1985 and 1994, the economy went through spells of hyperinflation, recessions and brief intervals of relative stability under ultimately unsuccessful economic plans. Inflation peaked at 2950 percent in 1990. Macro-economic turbulence gave rise to a strong short-term focus of economic agents and was most detrimental to the poor, who were not able to protect themselves against inflation. This only changed with the 1994 Real plan, which established a crawling currency peg, limited public spending and undid much of the existing inflation indexation. Under the new currency regime, the real became overvalued and significant current account deficits emerged, which became difficult to finance as international liquidity dried up after the Asian crisis. As a result, the exchange rate was floated in 1999 and an inflation targeting regime was adopted. Brazil entered the 2008 global crisis with significant buffers to enact countercyclical policies and initially showed strong resilience, with economic growth rebounding strongly in 2010. Since then, however, a combination of rising fiscal imbalances, increasingly interventionist economic policies and unaddressed structural weaknesses have led to a sharp erosion of confidence, which ultimately led into the economy’s strongest recession on record.

A number of structural weaknesses that had been masked by the commodity boom have by now become visible. At the same time, the more limited fiscal room will make it more difficult to achieve consensus for reforms in the fragmented political system, as in the past consensus was achieved mainly on the back of significant inefficiencies in government spending. Without a significant reform of mandatory public spending, the fiscal deficit of 7.8% of GDP and public debt at 74% of GDP in November 2017 risks becoming unsustainable.

The public sector will need to make a politically difficult choice between keeping the status quo or cutting back on transfers to the non-poor while boosting support to poor and the vulnerable households to continue contributing to growth and social progress, both of which are intertwined. Past reductions in inequalities have been based on a combination of solid growth, the resulting improved labour market prospects, better access to education and social transfers. Among the latter, highly efficient and well-targeted programmes co-exist with others transferring significant resources to middle class households, with very limited effects on inequality and hardly any impact on poverty. Fine-tuning the allocation of resources across and within social programmes could multiply the potential social progress that Brazil could achieve.
The pervasive dimensions of corrupt practices exposed by recent allegations at the highest levels have also revealed significant challenges in economic governance. Tax exemptions, subsidised lending, sector-specific industrial support policies and irregularities in contracts with public entities or state-owned companies distributed large economic benefits to the corporate sector, creating fertile grounds for rent-seeking behaviour and political kick-backs. Rents have also arisen as a result of policies that are shielding sizeable parts of the economy from competition, including through trade protection. These policies have effectively redistributed resources towards the affluent and made the political decision-making process less transparent. At the same time, they have rewarded firms for seeking political connections rather than performing better. Reconsidering these policies will reduce inequalities in incomes and opportunities and boost productivity.

However, recent events also reveal a steady strengthening of Brazil’s institutions, evidenced by an independent judiciary that has not shied away from pursuing and sentencing senior leaders. This provides an opportunity for Brazil to distance itself from the past and continue strengthening its institutional framework, which would reduce future vulnerabilities and could strengthen long-term growth prospects. International evidence shows strong links between well-functioning institutions and growth (Acemoglu et al., 2005).

In spite of the political upheaval of the last few years, significant reforms have been approved (see Box 2). Building on this reform momentum would have substantial payoffs. OECD estimates suggest long-run GDP effects from a continuation of structural reform of over 20%, to be realised over a horizon of approximately 15 years (Table 1). This would have a substantial impact on incomes (Figure 3) as well as on inequality and poverty, although these benefits may occur with a lag. Reform areas with the highest growth payoff include improvements in institutions, business regulations, financial markets and trade integration. At the same time, the political economy of undertaking these reforms will not be easy. Finding the right sequencing, good communication and effective flanking policies to ensure that the benefits are shared by all will be crucial.
Box 2. Recent and ongoing reform initiatives

Since 2016, the following reforms have been implemented:

- An expenditure rule requires a freeze of real federal primary expenditure growth over the next 20 years.
- An independent fiscal council has been established and has started to produce high-quality monthly reports.
- A financial market reform will align directed lending rates with market rates within at most 5 years.

This reform will level the playing field and facilitate the development of private long-term financial markets through a new, market-based long-term interest rate called TLP.

- Competition in the oil and gas sector has been strengthened.

Local content rules have been scaled back in the sector and the state oil company Petrobras no longer has to be a partner in every offshore drilling project.

- A labour market reform has removed obstacles to stronger formal employment growth.

The reform has allowed firm-level agreements to take precedence over the law, which provides a legal basis for long-standing practice and reduces legal uncertainties. At the same time, essential employee rights have remained non-negotiable.

- An education reform was passed in 2016.

The reform has reduced the number of mandatory subjects, providing more options and more room for tailoring teaching content to less academically inclined students. This is likely to help reducing drop-out rates.

- A new immigration law was passed in 2017.

The new law streamlines work visa application processes and enables workers already in the country to switch jobs without applying for another visa.

- Tax assets have been included in credit registry information and can be used by firms as loan collateral.
- Brazil has requested to adhere to the OECD Codes of Liberalisation of Capital Movements and of Current Invisible Operations.

Further reform proposals are currently being discussed, including:

- An extensive pension reform proposal has been submitted to Congress, but has not been voted on. It is expected that a new, less ambitious reform proposal could be submitted to Congress in the near future.

The original reform proposal as sent to Congress defined a minimum retirement age of 65 and raised the minimum contribution time from 15 years to 25 years, with a transition rule for those already close to retirement. Rules for women would gradually converge to those for men over 20 years. For those receiving more than the minimum pension, more years of contribution would be required to achieve the same replacement rates as at present. Survivor pensions would be reduced and the possibility of minimum survivor
A substantial privatisation package of state-owned enterprises has been announced.
A bankruptcy reform aimed at accelerating insolvency procedures has been prepared.
A proposal to improve credit registries aims at reducing interest rate spreads.
The proposal will widen the coverage of positive information in credit registries, such as payment history on utility bills, unless the individual opts out from having this information covered.
Plans about a tax reform are currently being discussed.

Table 1. Expected gains from structural reform are substantial

<table>
<thead>
<tr>
<th>Reform</th>
<th>Impact on real GDP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower trade barriers (e.g. by reducing tariffs and local content rules)</td>
<td>8%</td>
</tr>
<tr>
<td>Reduce barriers to entrepreneurship (e.g. by cutting administrative burdens and streamlining licensing requirements)</td>
<td>5%</td>
</tr>
<tr>
<td>Develop domestic financial markets (e.g. by fostering private entry into long-term credit markets)</td>
<td>3%</td>
</tr>
<tr>
<td>Reduce corruption (e.g. by improving procurement laws and whistle-blower procedures)</td>
<td>3%</td>
</tr>
<tr>
<td>Improve government effectiveness (e.g. by undertaking systematic audits and evaluations)</td>
<td>2%</td>
</tr>
<tr>
<td>All of the above</td>
<td>21%</td>
</tr>
<tr>
<td>Corresponding to an average annual growth increase of:</td>
<td>1.4 % points</td>
</tr>
</tbody>
</table>

Note: These estimates were obtained on the basis of: i) a numerical indicator of Brazil’s policy stance in each policy area, taken from World Bank’s World Governance Indicators, Doing Business and World Development indicators; ii) a simulated policy shock to the indicator, defined as moving Brazil to the average of all countries covered in the different indicators; iii) the quantification framework developed in Egert (2017), which provides an estimate of the impact of changes in the indicator on long-term output growth. For trade openness, the scenario assumes that Brazil moves to the average of countries of similar size. Clearly, these quantifications are subject to uncertainty, both about their size and the time horizon of their materialisation.

Source: OECD calculations.
Against this background, the main messages of the Survey are:

- Stabilising public debt and ensuring that inflation remains close to the target are key macroeconomic priorities. The new expenditure rule will be crucial for restoring the credibility of fiscal policy.
- Well-being is significantly affected by high inequalities, both in terms of incomes and opportunities. Improving the effectiveness of public spending, and in particular public transfers, will be crucial for further social progress. Well-targeted transfers in combination with further improvements in education and health hold the key to more inclusive growth.
- Raising investment by improving the business climate and access to finance would raise productivity and potential growth. Addressing infrastructure bottlenecks from years of underinvestment will be crucial.
- Greater integration into the global economy would raise potential growth and productivity through increased competition and efficiency gains, and help share in the gains of international trade. It would also create more jobs with higher productivity and better wages and allow more workers to join the formal sector.

The economy is gradually emerging from the recession

After falling for eight consecutive quarters, growth resumed at the beginning of 2017. A stronger government commitment to fiscal sustainability and several structural reforms improved confidence and short-term indicators (Figure 4). Unemployment peaked at 13.3%, but started to decline. Total credit to the private sector is still contracting on a year-on-year basis, but credit to households has been recovering significantly.
Annual inflation has come down substantially, from a peak above 10% in January 2016 to below 3% in January 2018. This is supporting household real incomes and has opened space for significant interest rate reductions. Private consumption has started to grow and will gain momentum as employment growth picks up and the real wage bill increases. Aided by more favourable external conditions, exports are projected to outpace import growth, resulting in further improvements in the trade balance. Foreign direct investment, amounting to a multiple of the current account deficit, will continue to hold up strong, while portfolio inflows, which had turned negative in 2016 but have since recovered, will be buoyed by a slow pace of interest rate hikes in advanced economies. The exchange rate has depreciated markedly since 2011, both in nominal and in real terms (Figure 5).
Growth is projected to strengthen during 2018 and 2019 (Table 2). Assuming the implementation of a substantial part of the current reform projects, confidence and easier credit conditions will support investment. Monetary policy can continue to provide support maintaining the current low level of interest rates in light of significant slack in the economy, although much will depend on the successful implementation of the fiscal adjustment. Against the background of subdued inflationary pressures and the need to ensure the sustainability of fiscal accounts, this policy mix appears appropriate.
Table 2. Macroeconomic indicators

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Real GDP growth</td>
<td>0.5</td>
<td>-3.8</td>
<td>-3.5</td>
<td>1.1</td>
<td>2.2</td>
<td>2.4</td>
</tr>
<tr>
<td>Private consumption</td>
<td>2.3</td>
<td>-3.9</td>
<td>-4.4</td>
<td>1.1</td>
<td>3.0</td>
<td>2.5</td>
</tr>
<tr>
<td>Government consumption</td>
<td>0.8</td>
<td>-1.1</td>
<td>-0.6</td>
<td>-0.5</td>
<td>0.7</td>
<td>1.3</td>
</tr>
<tr>
<td>Investment</td>
<td>-4.2</td>
<td>-13.9</td>
<td>-10.3</td>
<td>-2.5</td>
<td>2.5</td>
<td>2.7</td>
</tr>
<tr>
<td>Final domestic demand</td>
<td>0.7</td>
<td>-5.3</td>
<td>-4.6</td>
<td>0.2</td>
<td>2.5</td>
<td>2.3</td>
</tr>
<tr>
<td>Stockbuilding(^1)</td>
<td>-0.3</td>
<td>-1</td>
<td>-0.5</td>
<td>0.7</td>
<td>-0.5</td>
<td>0</td>
</tr>
<tr>
<td>Exports</td>
<td>-1</td>
<td>6.3</td>
<td>1.7</td>
<td>6.6</td>
<td>5.9</td>
<td>4.5</td>
</tr>
<tr>
<td>Imports</td>
<td>-1.9</td>
<td>-13.9</td>
<td>-10.3</td>
<td>5.0</td>
<td>5.0</td>
<td>3.4</td>
</tr>
<tr>
<td>Net exports(^1)</td>
<td>0.2</td>
<td>2.6</td>
<td>1.7</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
</tr>
<tr>
<td>Inflation (average for the year)</td>
<td>6.3</td>
<td>9.0</td>
<td>8.7</td>
<td>3.6</td>
<td>3.9</td>
<td>4.2</td>
</tr>
<tr>
<td>Inflation (end of period)</td>
<td>6.4</td>
<td>10.7</td>
<td>7.0</td>
<td>2.9</td>
<td>4.2</td>
<td>4.2</td>
</tr>
<tr>
<td>Unemployment</td>
<td>6.8</td>
<td>8.5</td>
<td>11.5</td>
<td>12.7</td>
<td>11.2</td>
<td>9.4</td>
</tr>
<tr>
<td>Fiscal balance (per cent of GDP)</td>
<td>-6.0</td>
<td>-10.2</td>
<td>-9.0</td>
<td>-7.8</td>
<td>-8.0</td>
<td>-7.3</td>
</tr>
<tr>
<td>Primary balance (per cent of GDP)</td>
<td>-0.6</td>
<td>-1.9</td>
<td>-2.5</td>
<td>-1.7</td>
<td>-2.3</td>
<td>-1.8</td>
</tr>
<tr>
<td>Public sector debt (gross, per cent of GDP)</td>
<td>56.3</td>
<td>65.5</td>
<td>69.9</td>
<td>74.0</td>
<td>77.1</td>
<td>81.1</td>
</tr>
<tr>
<td>Current account balance (per cent of GDP)</td>
<td>-4.3</td>
<td>-3.1</td>
<td>-1.3</td>
<td>-0.7</td>
<td>-1.9</td>
<td>-1.9</td>
</tr>
</tbody>
</table>

1. Contribution to changes in real GDP.

Source: OECD projections, OECD Economic Outlook Database, Central Bank.

Risks related to political developments are substantial

Risks to these projections include a failure to implement planned reforms, such as the much-needed fiscal adjustment. If the new expenditure rule is not adhered to, unsustainable fiscal dynamics could reduce confidence and trigger a return to recession. In particular, a successful implementation of the pension reform, without which the expenditure rule cannot be met in the medium term, will be a litmus test for the ability of the authorities to implement further structural reforms. Higher volatility on financial markets related to a normalisation of US monetary policy could also present risks for Brazil, although bouts of volatility have been well managed by the Central Bank in the past. Reserves and the strong FDI component of inflows would cushion related exchange rate risks.

In the banking sector, capitalisation exceeds regulatory requirements mitigating solvency risks (Figure 6). Stress test results point to an ability to withstand substantial shocks to growth or risk premiums (BCB, 2017; IMF, 2017a). In some sense, the severe downturn has acted like a real-world stress test for financial institutions, which have anticipated the recession by tightening credit standards and increasing fee income, and have remained solid. However, non-performing loans have risen and around a third of firms have interest obligations exceeding their earnings. Under adverse scenarios, this share could rise to 40%, corresponding to around 15% of total outstanding corporate debt (IMF, 2017a). On the household side, financial education has a role to play for prudent borrowing decisions and the resulting asset quality, as well as for fostering financial inclusion (Banco Central do Brasil, 2015, OECD, 2015h).
Figure 6. Financial markets contain risks, but these appear manageable

A. Bank capitalisation

B. Tier 1 ratio in comparison

C. Non-performing loans have risen

D. Total non performing loans in comparison

E. Household debt

F. Corporate debt

1. Unweighted average of 24 OECD countries with available data.
2. Unweighted average of 30 OECD countries with available data.
Source: CEIC, Central Bank.

StatLink: http://dx.doi.org/10.1787/888933655282
The flexible exchange acts as a shock absorber, but in interaction with unhedged foreign-currency debt it can create risks. The corporate sector, whose debt amounts to around 43% of GDP, is exposed to exchange rate risk as unhedged corporate liabilities of non-exporting firms in foreign currency amount to around 9% of GDP (BCB, 2017). By contrast, external debt is not a vulnerability for the public sector, with only 3.6% of public debt denominated in foreign currency and 12.7% of domestic public debt securities held by non-residents. Economy-wide external debt has risen over the past 5 years but is lower than in most emerging market economies (Figure 7). The total amount of external debt to be rolled over within 12 months amounts to 40% of currency reserves.

**Figure 7. External debt has risen but currency reserves are high**

1. The external debt definition used here includes intercompany lending and domestic fixed income securities held by non-residents.

\[\text{Source: CEIC, Central Bank}\]

<table>
<thead>
<tr>
<th>Uncertainty</th>
<th>Possible outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corporate debt defaults</td>
<td>Lower earnings or rising interest obligations could bring highly indebted corporates into payment difficulties, with concomitant capital losses in the banking sector. This risk is mitigated by banks’ high levels of credit provision.</td>
</tr>
<tr>
<td>A significant slowdown in China</td>
<td>China accounts for a quarter of Brazil’s exports. Lower Chinese import demand and lower commodity prices would reduce exports and growth. Commodity sectors account for 64% of Brazil’s exports, but only for 7% of GDP.</td>
</tr>
</tbody>
</table>

**Inflation has declined but financial intermediation could be improved**

Inflation began to trend upwards in early 2014 and rose to almost 11% in early 2016 as overdue adjustments of administered prices were implemented, among other factors. Since then, it has fallen well below the 4.5% inflation target of the Central Bank (Figure 8). Core inflation has declined to below 4.5% as well and expectations remain firmly anchored around the inflation target, which represents a break with recent history. Tight monetary policy until mid-2016 helped contain inflation, supported by improving

---

OECD ECONOMIC SURVEYS: BRAZIL 2018 © OECD 2018
market expectations about macroeconomic policies, food prices, weak domestic demand and the fading administered price effects.

**Figure 8. Inflation and core inflation have eased, while expectations converge towards the target**

![Inflation and core inflation graph]

Source: CEIC, Central Bank.

The Central Bank has responded to the decline in inflation by a series of reductions in the policy target rate SELIC from 14.25% in October 2016 to 6.75% in February 2018 (Figure 9). This is close to the level suggested by a Taylor rule, although much will depend on fiscal dynamics (IFI, 2017d). The labour market still has slack, with unemployment remaining high. Falling employment has also reflected lower participation rates, particularly among youths. The inflation target has been reduced for 2019 and 2020 to 4.25% and 4%, respectively.

While the Central Bank has acted independently recently, the effectiveness of monetary policy could be improved further by formalising this independence and shielding it from possible future political interference. Setting a fixed term for appointments of the central bank governor and members of the monetary policy committee, during which they cannot be dismissed, would be in line with current practice in most inflation-targeting countries (Hammond, 2012). Furthermore, safeguarding the financial independence of the Central Bank, including through an adequate budget and adequate levels of capital, are key for maintaining a strong credibility. Chile and Mexico have had formal Central Bank independence for over 20 years, which include long fixed-term appointments of board members.

The financial sector has many public and private banks, but most of them are only operating in the short-term segment. Long-term credit beyond 3 years is almost exclusively provided through directed lending operations, in particular by the national development bank BNDES, while private domestic financial markets accounted for only 8% of investment financing in 2016. There is no empirical evidence that the stark increases in BNDES lending to particular sectors since 2008, with subsidies peaking at over 2% of GDP in 2015, were able to prevent a massive decline in investment (World Bank, 2017; Bonomo et al., 2014; Ribeiro, 2016). All other firms seeking investment financing face severe credit constraints, high lending rates and short maturities.
In the past, directed lending was guided by a benchmark rate that was independent of but much lower than the monetary policy rate, resulting in negative real interest rates over many years. A new law approved in September 2017 introduced a gradual alignment of directed lending rates with market rates by 2022 at the latest, although much of the alignment may de facto take place earlier. The new law is expected to make the credit channel of monetary policy more effective, as recommended in the 2015 OECD Economic Survey of Brazil (Table 5). It will also allow the development of private long-term credit markets by levelling the playing field between public and private lenders. A sophisticated financial industry consisting of domestic and foreign banks, without major practical barriers to entry, is likely to be able to provide long-term finance in the future. If this turned out to be difficult, then additional measures may be required.

Figure 9. Monetary policy has responded to declining inflationary pressures

Source: CEIC, Central Bank.
Fiscal outcomes need to improve to ensure the sustainability of public debt

Fiscal outcomes have deteriorated substantially since 2014, when the primary balance (excluding interest payments) turned negative after more than a decade of primary surpluses, reflecting mostly increases in expenditure, including tax expenditures (Figure 10). The current primary deficit of 1.7% of GDP (November 2017) is significantly below the primary surplus required to stabilise public debt in the medium term, estimated at around 2% of GDP. Interest expenditures have declined from 9% of GDP in January 2016 to 6.1% and will likely decline further as maturing debt is rolled over at lower interest rates. Tax revenues amounting to 32% of GDP are close to the OECD average of 34%. The headline fiscal deficit stood at 7.8% of GDP in December 2017. The fiscal situation of a few Brazilian states has deteriorated substantially in recent years, which may create fiscal risks, although measures have been taken to contain these risks (IMF, 2017a).

Figure 10. Fiscal outcomes have deteriorated sharply

Source: Central Bank, Treasury.

StatLink: http://dx.doi.org/10.1787/888933655358
The rising public deficit has also reduced domestic savings and crowded out private investment which has more or less followed developments in gross domestic savings over the years (Figure 11). As public investment has also declined, private investment has been replaced by public consumption.

**Figure 11. Investment is closely following domestic savings**

![Graph showing investment and gross domestic savings](http://dx.doi.org/10.1787/888933655377)

Gross public debt has increased by approximately 20 percentage points of GDP over the last 3 years and currently stands at 74% of GDP (December 2017), according to the Brazilian official methodology. Both rising expenditures and lower revenues in the context of the recession have contributed to this. This level is high for an emerging market economy (Figure 12, Panel A). Brazil’s average debt cost of 8.6% and interest expenses of 6.1% of GDP (December 2017) are among the world’s highest (Figure 12, Panel B). While the explanations for Brazil’s high interest rates are hard to pin down, a history of macroeconomic instability, low public and private savings, low confidence in
fiscal dynamics, high inflation of the past and credit market segmentation have likely played a role (Segura-Ubiergo, 2012).

**Figure 12. Public debt levels are middle-range but interest expenditures are high**

Debt simulations suggest that gross debt will continue to rise until 2024, peaking at around 90% of GDP, and decline gradually thereafter (Figure 13). These simulations assume that the current fiscal plans are met by the present and incoming governments and compliance with the expenditure rule is ensured. However, the trajectory of debt is highly sensitive to the implementation of the reform agenda. In a scenario in which only minimal reductions in mandatory spending items can be achieved and the primary deficit is reduced but not turned into a surplus, debt relative to GDP will continue to rise without bounds and not be sustainable. By contrast, in an ambitious reform scenario as in Table 1 with 1.4 additional percentage point of GDP growth from 2021, debt would stabilise earlier and return to current levels by 2027.

1. Using the IMF debt definition, which also includes securities held by the Central Bank that are not part of gross debt by the official Brazilian methodology.


StatLink  
http://dx.doi.org/10.1787/888933655396
Over the next years, fiscal targets aim at a gradual improvement of the primary balance to -0.6% of GDP by 2020, from the current -1.7%. Beyond 2020, the new fiscal rule will become binding, essentially limiting the growth of almost all primary central government expenditures to inflation for the next 20 years, with a possibility of review after 10 years. The rule contains credible enforcement mechanism and only transfers to subnational governments, emergency expenditures, expenses with the electoral process, certain education expenditures and capital increases in state-owned enterprises are excluded. The establishment of an expenditure rule was recommended in the 2015 OECD Economic Survey of Brazil (Table 5).

Figure 13. Public debt trajectory

Note: In the baseline scenario, the primary deficit is as in government targets. Hence, using OECD GDP projections, the primary balance is -2.3%, -1.8% and -0.6% of GDP for 2018, 2019 and 2020, respectively. After 2020 compliance with the expenditure rule is assumed. The exchange rate and the interest rate are assumed to remain constant over the projection horizon. GDP growth is assumed as in table 2 and constant at 2% after 2019. The minimal reform scenario assumes a slower reduction of mandatory spending, with a balanced primary result not before 2030. The ambitious reform scenario assumes structural reforms that boost productivity growth (see table 1) and results in 3.4% GDP growth in the period 2021-2027. The no pension reform scenario assumes the absence of any noticeable parametric reform to the pension system. Source: OECD calculations.

StatLink  http://dx.doi.org/10.1787/888933655415

While current plans are just about sufficient to stabilise public debt, compliance with the expenditure rule will be challenging. The deterioration of fiscal accounts reflects an unsustainable path of primary expenditures which have grown almost 3 times faster than GDP over the last decade. Discretionary spending, which includes public investment and cash transfers to the poor, is only 20% of the central government’s primary spending and does not present much room for further savings.

The expenditure rule can only be met with ambitious reductions of rigid mandatory spending items and this should be the main avenue forward. Otherwise, the sustainability of public debt would be in jeopardy, with the possibility of a serious fiscal crisis looming in the medium term. The downside to this is that reforms to mandatory spending are politically more difficult as they require approval by Congress. The upside is that there is significant scope for improving the efficiency of public expenditures and reducing tax
expenditures such as exemptions and reduced rates without detriment to attaining social and economic objectives.

**Enhancing the efficiency of public expenditures, including tax expenditures**

Brazil spent over 15% of GDP on social benefits in 2016, corresponding to 35% of total public sector expenditure (Figure 14). Social benefits are responsible for more than half of the increase in primary expenditures and continue to outpace GDP growth. Several of these programmes are crucial for more inclusive growth but much can be done to raise the social returns through better targeting towards those most in need of support. In some cases, this will require reconsidering acquired rights to reduce the inequalities across generations, recognising that the state has made promises that cannot be upheld for future generations.

**Figure 14. Main functional areas of public expenditure**

In percent of total public sector spending, 2016

Note: A significant part of the 4.5% of GDP that Brazil spends on private sector development programmes are not visible in this breakdown as they take the form of tax expenditures. Part of the cost of past transfers from the National Treasury to public banks that allowed an expansion of subsidised lending operations show up as interest payments in public accounts, as the National Treasury issued additional debt to finance these transfers.

Source: OECD calculations based on National Treasury data.

StatLink [http://dx.doi.org/10.1787/888933655434](http://dx.doi.org/10.1787/888933655434)

A large and rising share of social benefits is paid to households that are not poor, which reduces their impact on inequality and poverty. Already, poverty is highest among children and youths (Figure 15). Limiting future increases in social benefits that mostly reach the middle class could help to increase social transfers with a strong inequality-reducing impact and a strong targeting towards children and youths, like the conditional cash transfer programme *Bolsa Família*. The attached conditionalities regarding school attendance and medical check-ups also help to reduce inequalities with respect to education and health, which in turn strengthens productivity.
Brazil’s constitution defines that many social benefits cannot be lower than the minimum wage, but the current level of the minimum wage is almost 7 times as much as the poverty line (Figure 16). In fact, it is even above the median income as more than 56% of Brazilians have incomes below the minimum wage. The minimum wage has increased rapidly over the years, and its real value is now 80% higher than 15 years ago while GDP per capita increased by only 23%. Maintaining the minimum wage as a floor for many social benefits will likely lead to a continuation of rapid increases, with the result that an ever larger share of benefits will be paid to those with above-median incomes and not to the poor.
A comprehensive social security reform has become the most urgent element of fiscal adjustment, and is also an opportunity to make growth more inclusive through better targeting of benefits. Brazil’s pension system costs almost 12% of GDP, which is high given Brazil’s young population (Figure 17). Pension expenditures have been largely responsible for the decline in the primary balance. All pension benefits are subject to the minimum wage floor, resulting in high replacement rates, in particular for low-wage earners. Aligning Brazil’s pension rules with those practiced in OECD countries would imply a minimum pension lower than the minimum wage, with eligibility to some prorated pensions for shorter periods. Indexing pension benefits to the consumer price index for low-income households would preserve the purchasing power of pensioners while improving the sustainability of the pension system. Sustainability would also be helped by establishing a formal minimum retirement age as current effective retirement ages of 56 years for men and 53 for women are far below the OECD average effective retirement age of 66 years for men and women (OECD 2015b). Without reform, pension expenditure will more than double, rendering the system clearly unsustainable (OECD, 2017a; IFI, 2017a). Moreover, the highly regressive subsidy element of the pension system with 82% of funds spent on the richest 60% would rise further (World Bank, 2017).
Figure 17. Pension reform is urgent

A. Pension expenditures have contributed strongly to the deterioration of fiscal accounts¹

B. Pension expenditures are high given the young population

C. Current retirement ages for a person who entered the labour force at age 20, men

D. Net replacement rates are among the world’s highest²

1. Accumulated over 12 months in BRL million.
2. Net replacement rates for a male full-career worker having entered the labour market in 2016.


StatLink  
http://dx.doi.org/10.1787/888933655491
A pension reform bill has been submitted to Congress, and, if passed without significant amendments, would improve pension sustainability. Still, delinking the minimum pension from the minimum wage will become inevitable in the future. Moreover, aligning more generous pension provisions for civil servants with that of private employees would be another source of potential savings. Consideration should also be given to prorate the minimum contribution period of 25 years for those with fewer years of contributions to avoid difficulties for poorly educated workers migrating between formal and informal employment, as years spent in informal employment do not give rise to pension rights.

Beyond contributory pensions, different social assistance programmes could be coordinated better or merged to eliminate overlaps and duplication of benefits. Brazil spends around 0.7% of GDP on non-contributory pensions for disabled people and the elderly without pension contributions. With no means-testing, only 30% of this benefit reaches the bottom 40% of the income distribution, with the remainder accruing to the more affluent (World Bank, 2017).

The only truly progressive social expenditure is the 0.5% of GDP spent on the well-targeted conditional cash transfer programme *Bolsa Família*, which also helps families to move out of poverty over time by conditioning transfers on children’s’ school attendance and basic health check-ups. 83% of benefit outlays reach the bottom 40% of the income distribution. The maximum benefit for a whole family is less than a third of one minimum wage. These benefits have been subject to discretionary increases broadly following prices, but a planned adjustment for 2017 was suspended until 2018.

*Bolsa Família* is the only transfer where incremental spending would really reach the poor. It is also a key instrument to protect the most vulnerable, including women, Afrodescendants and people of indigenous origin, many of which still suffer discrimination, despite recent progress made (World Bank, 2016). A package of reforms that would sever the link between minimum benefit levels and the federal minimum wage while shifting at least some of the savings to *Bolsa Família* could have led to 63% faster declines in inequality over recent years (Arnold and Bueno, 2018). In the same vein, tax revenues lost with some consumption tax exemptions, such as basic food, would be more effectively spent on *Bolsa Familia*.

Labour market benefits have a strong focus on passive income support measures for the 64% of workers that are in the formal sector. With around 36% of employment currently informal, the existing unemployment protection schemes fail to reach the most vulnerable group of workers (IBGE, 2017).

Formal sector unemployment insurance consists of two parallel schemes, *Seguro Desemprego* and the individual unemployment accounts called FGTS. These two programmes have a joint fiscal cost of around 1% of GDP when considering government top-ups of withdrawals as expenditure. They could be merged gradually as they essentially serve the same purpose and the current mandatory employer contribution to FGTS of 8% of salaries raises the cost of formal employment. In the transition, account balances, whose remuneration has traditionally fallen short of inflation, should be remunerated at market rates to reduce the currently strong incentives for frequent job turnover, often involving self-induced layoffs by arrangement with the employer. Merging the two unemployment insurance schemes *Seguro Desemprego* and FGTS would allow savings that could finance extending the maximum coverage period of *Seguro Desemprego*. At currently 3-5 months, this period is short relative to an OECD average of 16 months.
Two overlapping employment subsidy programmes with a joint cost of 0.2% of GDP and no proven effects on formalisation, *Abono Salarial* and *Salário Família*, could be reconsidered as they reach only workers with above-median incomes given that the legal floor for this benefit is the federal minimum wage (Figure 16).

The fact that the most vulnerable segment of workers is not covered by labour market programmes as a result of informality limits their effectiveness as a broad-based insurance or support mechanism. Acknowledging that informality is a complex issue and will only recede over time, a stronger focus towards general income support schemes that protect workers would provide more effective insurance against income losses than benefits tied to a history of formal employment. This may strengthen the case for raising benefit levels in conditional cash transfer schemes, most notably *Bolsa Família*.

At the same time, further efforts to reduce informality will be key for more inclusive growth going forward. Informal employment offers not only lower job quality, but is also generally less productive (OECD, 2016e). Where informality affects entire firms, as it often does, it precludes access to financial services, credit, and public procurement opportunities. Brazil can build on substantial progress in reducing informality, including programmes to reduce the administrative and tax burdens for micro and small enterprises to join the formal sector (World Bank, 2016; Silva et al., 2015; ILO, 2014). The recent labour market reform may also strengthen the incentives for formal job creation as restrictive regulation on formal labour markets has been identified as one factor behind informality (Estevão and de Carvalho Filho, 2012). Further improvements in the ease of registering a business may also improve incentives for firms and their workers to become formal, while enforcement efforts also have a role to play.

Public health expenditures of 4.4% of GDP finance Brazil’s unified public health system that provides public health services to the population since 1989. In comparison to other countries, the efficiency of health expenditure in Brazil appears to be low. International comparisons based on data envelopment analysis indicate Brazil could gain more than 5 years of health-adjusted life expectancy, a commonly used health indicator, through efficiency improvements, while maintaining current per-capita health expenditures (Figure 18; Chapter 2 of the 2015 OECD Economic Survey of Brazil). Significant savings could result from better coordination across different levels of government and care complexity, improving performance monitoring and strengthening incentives. Since 1990, Brazil has seen one of the strongest declines in child mortality in Latin America (World Bank, 2016). However, indigenous communities suffer from significantly worse health conditions, including higher child mortality rates, suggesting the need for a better focus on vulnerable and disadvantaged groups. Developing a more explicit definition of what is covered by the public healthcare system and what is not would allow a better focus of existing resources on the most important kinds of treatment and those most in need. This would include putting an end to the current practice of relatively well-educated and better-off patients suing the state to cover their drug expenses with no regard to their cost-effectiveness, which exacerbates inequalities. A tax deductibility of private health plan contributions paid by 25% of Brazilians and their employers has regressive effects and could be phased out, saving 0.3% of GDP (Castro, 2014).
Brazil’s public sector spends 5.4% of GDP on education, above the OECD average and other Latin America Countries (Figure 19). However, while Colombia, Mexico and Uruguay spend less per student than Brazil does, they perform better in the OECD PISA tests, suggesting scope for raising spending efficiency (OECD, 2015f). Shifting spending from tertiary to the pre-primary, primary and secondary levels of education would simultaneously raise progressivity and efficiency. Free public tertiary education tends to benefit students from high-income families as graduates of private secondary schools tend to score better on admission exams. By contrast, early childhood education significantly decreases the likelihood of disadvantaged student dropping out from the education system later on (OECD, 2016p). When allocating scarce spaces in early childhood education, preference should be given to low-income households and single mothers, as this would allow more women to participate in the labour market. Only 15% of poor families with children below 3 years have access to child-care, compared to 40% of the more affluent families (World Bank, 2016). Although it has been narrowing in recent years, there is still a substantial gap in educational attainments between whites and Afrodescendants (World Bank, 2016).
Figure 19. High expenditures in education coincide with weak outcomes

A. Public education spending in % of GDP, 2014

B. PISA outcomes, 2015

Source: OECD Education at a Glance 2017; OECD PISA 2015 Results (Volume I): Excellence and Equity in Education.

StatLink  
http://dx.doi.org/10.1787/888933655529

The public sector wage bill of 13.1% is high in international comparison (Figure 20). Following through on current plans to align entry-level salaries for civil servants with private sector pay has significant potential for saving as 39% of civil servant will retire within 10 years (World Bank, 2017). The efficiency of public administration could also be improved by further limiting the scope for political appointments, including in regulatory agencies and public enterprises. The executive’s right of political appointments is regularly passed on to parliamentarians to reward specific voting behaviour. Empirical research suggests that political appointments are associated with lower agency capacity, thus diminishing spending efficiency, and also the bureaucracy's ability to effectively combat corruption (Bersch et al., 2017). Especially in public enterprises, where technical or management experience is paramount, the rationale for political appointments is weak. The new SOE law of 2016 has effectively put some limits on political appointments in SOEs by defining minimum technical requirements for candidates.
Programmes specifically geared at parts of the industrial sector cost an annual 4.5% of GDP, most of which in the less transparent form of tax expenditures, but also subsidies. Rigorous evaluations of these policies are rare but existing evidence has failed to find significant benefits for productivity or investment (World Bank, 2017).

At 1.2% of GDP, the targeted tax regime for small and medium enterprises Simples Nacional combines a lighter tax burden with a simplified calculation of tax liabilities based on turnover. This encourages firms to stay small and reduces the possibilities to achieve productivity gains by sourcing intermediate inputs from potentially more efficient external providers (Caprettini, 2015; OECD, 2009b). For very small firms, the easier compliance may outweigh these considerations, especially considering that youth and women are overrepresented in informal micro- and small enterprises, either as workers or entrepreneurs (ILO, 2014). However, with a high participation ceiling of USD 1.5 million in turnover per year, the regime is currently used by 74% of Brazilian firms. Evidence that the scheme has been successful in fostering firm formality is limited to micro-enterprises in the retail sector (Piza, 2016; Monteiro and Assunção, 2012). In the context of a broader tax reform that would simplify the general tax system, lowering the participation ceiling of Simples Nacional would allow to narrow the scope of application of the targeted tax regime to firms where formalisation gains are more likely and the resulting distortions of the organisation of the value chain matter less. Such a reform would bring substantial productivity benefits for businesses and foster inclusiveness. At significantly lower fiscal cost, the Microempreendedor Individual programme, with a ceiling of USD 20 000 in turnover, has contributed to lower informality among low-income entrepreneurs, especially women (OECD, 2012c).

Special tax benefits have also been given to domestically-produced electronics and vehicles and to promote technological upgrading, often adding to trade protection. Some of these measures have recently been found in breach with WTO rules (WTO, 2017). In most cases, they have raised prices for consumers and increased income for producers,
but there is no solid evidence of positive longer-run effects. In addition, large-scale tax benefits for producers in the Manaus Free Trade Zone, located in the state of Amazonas, and a few other special zones cost around 0.4% of GDP per year. Submitting these special regimes to systematic evaluations could allow identifying scope for fiscal savings.

State-owned enterprises (SOEs) play a sizeable role in Brazil. There are 141 SOEs in Brazil, with revenues on the order of 5% of GDP (OECD, 2015b; OECD, 2012a). The authorities have passed a new SOE law as a first step to harmonise and improve governance in 2016 and announced a package of privatisations of state-owned enterprises in 2017, including the electricity generator Electrobrás, oilfields, energy transmission lines, highways and several airports. While privatisations generate one-off revenues that can help improve fiscal accounts in the short term, the principal reason for undertaking them should be to improve governance mechanisms and raise efficiency. In Brazil, management positions in state-owned enterprises have often been political appointments, which tends to affect management quality and governance, and at the state level, political parties have maintained strong influence over local SOEs. This suggests scope for efficiency gains from private operation. The OECD Guidelines on Corporate Governance of State-Owned Enterprises (OECD, 2015b) can be a powerful tool to address governance challenges usually faced by state-owned enterprises attributable to political interference, lack of incentives to improve performance and complex institutional arrangements.

Estimates suggest that these proposals to raise spending efficiency could generate annual fiscal savings of up to 7.9% of GDP (Table 4).

**Table 4. Expected possible savings from improving the efficiency of public expenditures**

<table>
<thead>
<tr>
<th>Measure</th>
<th>Potential annual savings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social benefit reform, including a reform of contributory pensions, non-contributory social assistance pensions and phasing out labour market programmes Abono Salarial and Salário Família (maximum effect to be obtained over 10 years due to transition rules)</td>
<td>Up to 2.7% of GDP</td>
</tr>
<tr>
<td>Raising spending efficiency in the health sector, including integrating basic and advanced care, a universal coverage of basic care and raising the efficiency of hospitals and health professionals</td>
<td>0.3% of GDP</td>
</tr>
<tr>
<td>Removing federal tax deductibility for private health plan contributions</td>
<td>0.3% of GDP</td>
</tr>
<tr>
<td>Eliminating inefficiencies in primary and secondary education, as well as federal higher education institutions</td>
<td>1.5% of GDP</td>
</tr>
<tr>
<td>Aligning public sector pay levels with private sector salaries</td>
<td>0.9% of GDP</td>
</tr>
<tr>
<td>Reforming targeted SME tax regime in the context of a broader tax reform</td>
<td>up to 1.2% of GDP</td>
</tr>
<tr>
<td>Scaling back tax expenditures and subsidies targeted at the industrial sector</td>
<td>up to 0.8% of GDP</td>
</tr>
<tr>
<td>Improving public procurement</td>
<td>0.2%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>Up to 7.9% of GDP</strong></td>
</tr>
</tbody>
</table>


**Improving the fiscal framework**

Brazil has made substantial progress on its fiscal framework, including the new expenditure rule and the recently established fiscal council (IFI), which has been publishing high-quality monthly reports, including fiscal projections and scenarios. Its establishment has been a recommendation in previous OECD Economic Surveys or Brazil (Table 5). Fiscal transparency has also made progress (IMF, 2017b). Further improvements could include systematic periodic policy impact evaluations for major expenditure items. Moreover, the widespread practice of budget appropriations by
parliamentarians for projects in their constituency could be reduced and made more transparent, as empirical evidence suggests links between these appropriations and corruption (Azevedo and Colaço, 2010). Without systematic audits, these budgets are essentially used for coalition building, as evidenced by their sharp increases ahead of key parliamentary votes.

Table 5. Past OECD recommendations on macroeconomic policies

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Actions taken since the 2015 Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implement the fiscal adjustment in line with medium-term objectives, including a stabilisation of gross debt.</td>
<td>Plans for fiscal adjustment have been made, particularly with the new expenditure rule.</td>
</tr>
<tr>
<td>Gradually raise the retirement age and index pensions to consumer prices rather than the minimum wage.</td>
<td>A draft pension reform bill is currently discussed in Congress, but has not been voted on.</td>
</tr>
<tr>
<td>Adopt an expenditure rule and reduce budget rigidities such as revenue earmarking and fixed expenditure shares. Consolidate fiscal oversight to monitor compliance with the fiscal rule ex-ante.</td>
<td>An expenditure rule has been adopted, the indexation of federal minimum expenditures on health and education to GDP has been removed and a fiscal council (IFI) has been created successfully.</td>
</tr>
<tr>
<td>Gradually phase out the tax deductibility of private healthcare expenses to free more resources for the SUS.</td>
<td>No action taken.</td>
</tr>
<tr>
<td>Establish fixed-term appointments for the Central Bank governor and members of the Monetary Policy Committee.</td>
<td>No action taken.</td>
</tr>
<tr>
<td>Adjust the directed lending rate TJLP more frequently in line with the monetary policy rate Selic.</td>
<td>The directed lending rate TJLP has been replaced by a new rate called TLP that will converge to market rates over 5 years.</td>
</tr>
</tbody>
</table>

Improving governance and reducing corruption

Brazil ranks 79th out of 176 countries in the latest Transparency International corruption index (TI, 2016). Corrupt practices and kick-backs such as those revealed in recent years (see Box 3) waste public resources and exacerbate income inequalities by allowing relatively prosperous public officials and businessmen to divert taxpayer resources. Evidence has mostly surfaced in the context of public procurement, including by state-owned companies, credit subsidies or tax benefits to specific companies and sectors. Infrastructure concessions are also vulnerable to collusion among bidders and corruption, as estimates suggest that corporate campaign donations by companies have significantly increased the probability of being awarded public contracts (Boas et al., 2014). Regulating the financing of political parties and campaigns, which Brazil is currently discussing, is crucial to prevent powerful special interests from capturing the policy process, which makes growth less inclusive and decreases trust in government (OECD, 2016d).
Box 3. Recent corruption investigations

A series of corruption allegations began to surface in Brazil in 2014, associated to the term “Operação Lava Jato” (Operation Car Wash). The investigations, facilitated by a new anti-corruption law and enhanced scope for plea-bargain agreements, were initially focused on the state oil company Petrobras, but later extended to other sectors, including construction, infrastructure, energy and food processing. Through plea bargain arrangements, business executives implicated high-ranking politicians, some of which have been sentenced. In many cases, investigations are still ongoing.

Improving transparency and accountability are key for addressing the root causes of corruption. Brazil already has a transparency law, but despite progress at the federal level, its enforcement is uneven across states and municipalities. Essential information about procurement contracts whose disclosure is mandated by law is often not provided (Mohallem and Ragazzo, 2017). Moreover, institutions charged with combating corruption have sometimes failed to collaborate, despite a national Anti-Corruption and Anti-Money Laundering Strategy (ENCCLA) (Mohallem and Ragazzo, 2017). At the same time, recent progress in exposing and prosecuting corruption charges is remarkable and shows the strength of Brazil’s judiciary.

Efforts to combat corruption should include a thorough assessment of public procurement laws, in particular how their many complexities and exemptions affect integrity and competition in the tendering process. Such a review should also cover the risk of collusion in public tenders, which is substantial. Reducing collusion will reduce the prices paid by public authorities and opportunities to corrupt the collusion process (OECD, 2010b; OECD, 2014). Rules pertaining to conflicts of interests, incompatibilities and impartiality in public procurement could be streamlined and strengthened. The mandatory use of centralised purchasing bodies, which are less prone to corruption, could be expanded, together with systematic training of procurement officials on effective tender design and effective detection of collusive practices (OECD, 2012b). Whistleblowing procedures are presently hampered by concurrent competences and parallel systems for similar offences, which make it difficult to protect whistleblowers effectively. Most OECD countries have dedicated whistleblower protection laws while Brazil does not (OECD, 2016c). With respect to foreign bribery, Brazil has significantly improved its ability to proactively investigate foreign bribery in close cooperation and coordination with other parties to the OECD Anti-Bribery Convention (OECD, 2017e).

Raising investment is a key policy priority

Investment has been on a steady decline since 2013 and is low in international comparison (Figure 21). Investing more would lift the economy’s growth potential and strengthen productivity growth, which also defines the wage increases that workers can pocket without jeopardising the competitiveness of domestic producers.
Investing in infrastructure is particularly important. Brazil ranks 116 out of 138 countries on infrastructure quality in the latest World Economic Forum survey, following years of losing ground to other countries. Quality shortcomings are common to many infrastructure areas (Figure 22).
Enhancing the options for investment financing

Access to finance and high costs of credit have been a key impediment to investment. Dominated by the public development bank BNDES, long-term corporate credit markets may not be allocating scarce available funds effectively, as even long-term investments are overwhelmingly flowing into short-term, mostly overnight instruments. A competitive private credit market is likely to lead to better outcomes and the conditions for its development are now better than ever as BNDES lending rates will converge with market rates and returns on safe government bonds have declined.

At the extreme long end of the credit market, 53% of outstanding infrastructure loans are extended by BNDES, whose resources will be insufficient to meet future infrastructure needs. Drawing in more private funding requires relying on a wider variety of financial products to suit different kinds of investors such as international banks, sovereign wealth funds, foreign pension funds and multilateral development banks.
The focus of BNDES could evolve from being the principal source of infrastructure finance in Brazil to serving as a catalyst for mobilising private, including foreign financing. Co-financing requirements for investment loans are one way to engage private lenders. For large infrastructure loans, BNDES could arrange syndicated loans among several banks. BNDES could also lead the creation of structured financial instruments, tranches of which could be purchased by a wider range of institutional investors, including those that are limited to investment grade assets. Mimicking the practices of multilateral lenders, BNDES itself could invest in subordinate or mezzanine debt with loss absorption capacity to reduce the risk profile for other investors, or provide guarantees against certain types of risk to complement incomplete insurance markets. A shift of focus from lending to these kinds of instruments, some of which have already been used by BNDES in the past, would make more effective use of BNDES’ balance sheet, which could in turn be substantially reduced to leave more space for private lenders. At the same time, BNDES could shift its lending towards specific areas that the private sector is struggling to cover and where market failures are particularly prevalent, for example the financing of small start-ups and innovation projects. In most OECD countries that have public development banks, their focus is on such specific areas.

BNDES could also take a leading role in the transition towards the project financing model, which limits creditor recourse to the assets and cash-flows of the project, capping the downside for equity investors. Currently, most BNDES loans require collateral from the sponsor companies, thus narrowing the range of equity investors to all but the largest industrial companies, utilities or construction firms. As many large construction firms have been weakened by corruption scandals, diversifying the equity investor base to include investment funds or pension funds has become more urgent.

**Improving the business climate to enhance investment returns**

Beyond difficulties in accessing finance, Brazil’s low investment reflects an unfavourable business climate that raises costs and curtails returns on investment. Reforms in several areas could lead a long way to improve this and provide a much-needed boost to investment in Brazil.

One key element of this is a fragmented consumption tax system that raises the cost of capital by failing to refund input tax paid on fixed assets and makes Brazil the country with the highest tax compliance costs (Figure 23). Brazil’s 6 consumption taxes are levied in part by the federal government and in part by the states, each of whom applies its own tax code, tax base and tax rates. Companies wishing to offer goods and services nationwide are required to comply with all states’ tax rules (CNI, 2014). Tax credits for intermediate inputs accrue only if they are embodied in the final good sold which results in extensive use of tax accountants and frequent lawsuits over disputes.

One solution would be to consolidate the different consumption taxes into one value-added tax with simple rules, following the recent example of India and as recommended in the 2015 OECD Economic Survey of Brazil (OECD, 2017c, OECD, 2015g). The federal government could lead the way by consolidating its own consumption taxes into a single value added tax with a broad base, full refund for input VAT paid and zero-rating for exports. Once such a tax was established, state-level taxes could be integrated into this system as state-specific surcharges on the same tax base. This could be done in a gradual manner and would not preclude different states from applying different rates as long as the tax base is uniform and the destination principle is applied consistently for interstate commerce. A temporary compensation via the federal government of some states that are
likely to face revenue losses from moving to the destination principle may help to allow these states to adjust gradually and would make it easier to reach a consensus, as has been done in India (OECD, 2017d).

**Figure 23. Hours required to prepare taxes**

For a benchmark manufacturing company, 2017

Many industries are characterised by low levels of competition, which tends to foster rigid industry structures in which strong performers find it more difficult to grow at the expense of low-productivity firms. This has trapped resources in low-productivity firms with fewer investment opportunities and curtailed incentives for innovation and technological upgrading (Pinheiro, 2013; IEDI, 2011; IEDI, 2014; World Bank, 2018).

Both domestic barriers to entry and a lack of foreign competition have contributed to this. Brazil has scope to reduce administrative burdens and streamline licensing procedures for new businesses, to make sure its regulations do not unnecessarily hinder competition (Figure 24). Portugal, for example, has made positive experiences with applying a silence-is-consent rule in areas without major safety or environmental concerns. More generally, the OECD’s Competition Assessment Toolkit (OECD, 2010a) can provide guidance not only for identifying but also for revising policies that unduly restrict competition. Empirical results suggest that high administrative burdens are linked to lower firm productivity (Arnold and Flach, 2018).

Finally, industrial policies should provide neutral treatment across incumbents and entrants, and across different sectors of activity. Many industrial policies of the past have tended to cement existing industry structures, but the exit of less productive firms releases the resources that more successful firms need to grow to an efficient scale (Andrews et al., 2017). In addition, environmental licensing could be streamlined and made more predictable, without opening the door to wholesale exemptions from licensing.
In infrastructure, reviewing some of the current regulations and practices, particularly in the structuring and preparation of projects before a tender call and at the subnational levels, could raise investment. Due to a lack of technical capacity, some projects have been structured by the same firms (or their subsidiaries) that later submit tenders. This reduces the number of bids received in the tender call, often down to one, and opens the door to anti-competitive behaviour (World Bank, 2016). The capacity for structuring infrastructure projects could be enhanced by providing more training to officials involved in infrastructure structuring. At the same time, the national development bank BNDES has built up substantial technical capacity in structuring projects and particularly state and municipal authorities could make wider use of its expertise.

While Brazil has 20 years of experience using concessions remunerated through user fees, public-private partnerships (PPPs) could serve as an additional tool where user fees are hard to implement. Despite a federal PPP law, there are only few cases so far, mostly involving subnational governments. Unifying policies and processes on how to prioritise, prepare, structure, and conduct bidding for PPPs across jurisdictions could reduce uncertainty and costs for investors (World Bank, 2016). However, in some countries, PPPs have been attractive in the past because the associated future liabilities were not properly recorded in the budget which shows the dangers of using PPPs without an appropriate and transparent accounting framework. As a lesson from these experiences, it is important to incorporate the full budget implications of PPPs over their whole life-cycle into the medium-term budget framework.

A new 2016 investment partnership law has created a new central entity attached directly to the presidency, tasked with selecting and prioritising projects and monitoring their implementation. The coordinating role of this central entity would be similar to the infrastructure planning done for the electricity network. The PPI Secretariat (*Secretaria Executiva do Programa de Parcerias de Investimentos*) is in line with international best
practices and should remain well resourced, both financially and in terms of human resources. Environmental concerns should also be part of infrastructure planning.

**Supporting the integration with the region and the world economy**

With exports and imports of less than a quarter of GDP, the economy is significantly less integrated into international trade than other emerging market economies of similar size (Figure 25). This reflects several decades of inward oriented policies including a strategy of industrialisation through import substitution. Trading little, Brazil has remained on the side lines of global value chains (GVC), as its exports contain mostly domestic value added and do not feed much into other countries’ exports. Brazil’s only discernible GVC link is with neighbouring Argentina, with no other significant trade link in the region, while many Asian economies are tightly intertwined through their trade relationships, both among themselves and with advanced economies (Figure 26).

**The economy is shielded from global opportunities and foreign competition**

This situation reflects trade barriers of various forms. Average tariffs levels weighted by imports are almost twice as high as in neighbouring Colombia and more than 8 times higher than in Mexico or Chile (Figure 27). Brazil’s most frequently applied tariff rate is 14%, while around 450 tariff lines are at the maximum of 35%, including textiles, apparel and leather and motor vehicles. Effective protection levels due to the cascading effects of tariffs at different levels of the production chain are 26% on average, but range between 40% and 130% for textiles, apparel, and motor vehicles, in ascending order (Castilho and Miranda, 2017). Brazil is the country with the highest number of tariff lines above 10%. In addition to tariffs, various forms of local content requirements are probably adding to the protection of domestic producers and model simulations suggest that they are at the root of significant reductions in imports and exports (Stone et al, 2015).

The high trade barriers preclude Brazil from many of the benefits of an increasingly integrated global economy. Both consumers and companies purchasing intermediate or capital goods are paying markedly higher prices than in other countries. Trade barriers on capital goods tend to be even higher than average tariffs and this may be a good starting point for tariff reductions as the benefits of lower-cost capital goods would spread across the entire economy. A special tax regime is in place to reduce import tariffs on capital goods, but it is applicable only if no equivalent domestic product exists, and Brazil has a sizeable capital goods industry. Brazilian firms use the least of imported inputs among Latin American and emerging market economies, which contributes to low productivity at the firm level (Brambilla et al., 2016).
Figure 25. Exposure to trade and participation in global value chains are low

A. Imports and exports as % of GDP
   average 2010-16

B. Forward participation in Global value chains:
   Domestic value added embodied in foreign exports, as % of total gross exports of the source country

C. Backward participation in global value chains:
   Foreign value added embodied in exports, as % of total gross exports of the exporting country

Source: OECD Economic Outlook database, OECD, TiVA Nowcast Estimates.

StatLink 2 http://dx.doi.org/10.1787/888933655643
Figure 26. Brazil has remained on the side lines of global value chains

A map of global value chains

Note: A larger circle reflects an economy whose sectors are more connected within global production networks.

Source: Criscuolo and Timmins (2017).

Figure 27. Trade barriers are high, especially in capital goods

<table>
<thead>
<tr>
<th>Country</th>
<th>Applied tariffs: all products</th>
<th>Applied tariffs: capital goods</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chile</td>
<td>0.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Mexico</td>
<td>0.2</td>
<td>1.2</td>
</tr>
<tr>
<td>Canada</td>
<td>0.1</td>
<td>1.1</td>
</tr>
<tr>
<td>United States</td>
<td>0.05</td>
<td>1.05</td>
</tr>
<tr>
<td>Indonesia</td>
<td>0.04</td>
<td>1.04</td>
</tr>
<tr>
<td>Vietnam</td>
<td>0.03</td>
<td>1.03</td>
</tr>
<tr>
<td>Thailand</td>
<td>0.02</td>
<td>1.02</td>
</tr>
<tr>
<td>Colombia</td>
<td>0.01</td>
<td>1.01</td>
</tr>
<tr>
<td>China</td>
<td>0.005</td>
<td>1.005</td>
</tr>
<tr>
<td>India</td>
<td>0.001</td>
<td>1.001</td>
</tr>
<tr>
<td>Argentina</td>
<td>0.0005</td>
<td>1.0005</td>
</tr>
<tr>
<td>Brazil</td>
<td>0.0001</td>
<td>1.0001</td>
</tr>
</tbody>
</table>

Source: World Integrated Trade Solution database (WITS).

StatLink: http://dx.doi.org/10.1787/888933655662

Moreover, providing a boost to competition will foster growth and job creation. Opening up would probably be the most effective way to strengthen competitive pressures in many
industries. This would also support Brazil’s export performance which has declined by almost 25% over the past 15 years, while Mexico’s export performance has increased by 25%. Given their poor trade integration in general, Brazilian companies have also shown only scant participation in global value chains. In Latin America, Mexico and Chile exemplify how trade and the integration in global value chains can contribute to economic growth and resilience (OECD, 2017b, OECD, 2015c).

A stronger integration into international trade would support growth and social progress

Raising productivity, which has been largely stagnant over the last 15 years, will require embracing global opportunities more fully. The most evident and immediate effects of lower trade barriers are falling import prices for consumers. Estimates suggest that Brazilian consumers could see their purchasing power increase by 8% without trade barriers (Figure 28). Moreover, these benefits are highly progressive as lower income households spend larger shares of their incomes on tradable goods such as food, home appliances, furniture and clothing. A detailed analysis of reducing trade protection, taking into account differences in the consumption basket across households, suggests that the lowest-income decile could gain as much as 15% in terms of additional purchasing power, compared to 6% for the top decile (Arnold et al., 2018). Lower tariffs would therefore bring particular benefits to poor consumers, including women in their role as family providers (UN-IANWGE, 2011). Lowering tariffs would not result in significant fiscal losses as they currently amount to around 0.5% of GDP and the productivity effects of better integration would likely lead to an expansion of activity and additional tax revenues.

With respect to companies and employment, the effects of lowering trade barriers generally combine medium-term benefits with short-term adjustment costs as it triggers resource allocations between sectors and firms, including job losses in some areas and job creation in others. On one hand, firms—just like consumers—gain improved access to intermediate and capital inputs from imports, but also via the reaction of domestic producers to rising competition. Tariff reductions in the 1990s triggered substantial productivity benefits (Lisboa et al., 2010; World Bank, 2018). A recent study concluded that a 1% reduction in tariffs of inputs would increase productivity by around 2% (Gazzoli and Messa, 2017). Similar effects have been found for other countries (Amiti and Konings, 2007; Grossman and Helpman, 1991).

On the other hand, lower trade barriers intensify the competitive pressures that domestic companies face in their own market. As a result, some low-performing firms will lose market share and may eventually be squeezed out of the market. It is precisely this reallocation process that will allow capital and labour to flow to more productive sectors or firms where new and better-paying jobs can be created (Criscuolo et al., 2014). A significant share of productivity growth in advanced economies can be attributed to these reallocation effects (Hsieh and Klenow, 2009). For Brazil, estimates suggest potential productivity gains on the order of 40% (Busso et al, 2013).
Figure 28. The potential consumer benefits from lower trade barriers are highly progressive

Potential gains in purchasing power by deciles of income distribution

Source: Arnold et al. (2018).

StatLink [open URL] http://dx.doi.org/10.1787/888933655681

Just as some firms lose domestic market share in the face of stronger integration, others seize newly arising export opportunities, expand and hire new workers. Brazil’s export performance has been weak over the last decade and promoting stronger exports would be a key reason to reduce trade protection (Figure 29). In terms of overall employment, the export effect is likely to dominate, with analytical work suggesting overall employment gains exceeding 1% (Araújo and Flaig, 2017). Moreover, the demand for low-skilled labour would likely rise much more than the return on capital, suggesting that newly arising job opportunities in a more open Brazilian economy would disproportionately help the poor (Harrison et al., 2004). Previous reductions in trade protection were associated with an increase in female employment (Gaddis and Pieters, 2012), in line with international evidence suggesting that women benefit particularly from job opportunities arising in the context of stronger integration (UNCTAD, 2009). Jobs created in exporting firms are also more likely to be formal and to pay better, as Brazilian exporters pay 51% higher wages than non-exporters (Brambilla et al., 2016).

Opening up to the world economy tends to have pro-poor effects in emerging market economies (Artuc et al., 2017; Porto, 2006). However, for some workers, reallocations will involve the need to search for a new job. Brazil has high job turnover rates with a third of manufacturing employees changing jobs within one year (Assunção et al., 2017; DIEESE, 2014). This is partly due to incentives arising from the FGTS unemployment insurance scheme. Hence, more firm turnover in the adjustment period is probably a manageable burden for those who find new employment in the same sector. However, when entire sectors contract and workers have to learn new skills, the adjustment costs may be more substantial. Empirical analysis using exogenous variation in exchange rates to proxy changes in effective trade protection suggests that this would only affect a very limited number of sectors, including clothing and textiles, machinery and metal products, while all other sectors are likely to hold up well to more cost-competitive foreign competitors (Arnold et al., 2018). Model-based simulations by Messa (2017) also point to
contractionary effects only for the clothing and leather sectors. For other sectors, the effect is either small or positive.

**Figure 29. Export performance has been weak**

![Export performance chart](http://dx.doi.org/10.1787/888933655700)

*Note:* Export performance is measured as actual growth in exports relative to the growth of the country’s export market, which represents the potential export growth for a country assuming that its market shares remain unchanged.

*Source:* OECD Economic Outlook database.

For affected workers, active labour market policies can go a long way to reduce the burden of adjustment. Such policies, whose focus should be on protecting workers rather than on protecting jobs, economic sectors or firms, can help workers move across sectors through training, job search assistance and activation measures (World Bank, 2013; Flanagan and Khor, 2012). While overall spending on active labour market policies is close to the OECD average, the composition of this spending is very much focused on supporting self-employment and employment subsidies (Figure 30). These programmes are often less effective in increasing the future employability of participants (Brown and Koettl, 2015). In the same vein, the effect of employment subsidies tends to be short-lived. Thus, shifting spending towards those schemes that support the acquisition of new skills, such as training, would better support that Brazilians get ready for the new jobs that will be created. Training can help workers to get ready for new jobs in expanding sectors, and even enhance their chances of accessing better paying jobs. Programmes to retrain workers so that they get new skills and ready for new jobs in other sectors are only starting to be deployed, but should become a priority. Parallel to this, a strong social safety net can protect incomes during unemployment spells (see discussion above).
Figure 30. Active labour market policies are not focused on training and labour market services

A. Public expenditure in active labour market policies
2014 or latest year available

Additional policy efforts on training will also help to ensure that the benefits from integration reach youths or women, both of which are characterised by below-average labour market attachment (Figure 31). Active labour market policies with a strong training component can be effective in reducing gender inequalities, as evidence suggests that women tend to benefit more from them (Bergemann and van den Berg, 2007). Brazil’s youth unemployment rate of 27% is high in international comparison, and keeping youths attached to the labour market is essential to avoid scarring effects and social exclusion later in life. Skill acquisition is a key factor determining the impact of trade on the economic opportunities of women and youths (UN-IANWGE, 2011).
Policy options for strengthening integration

Defining a concrete policy agenda for integration requires thinking about the right sequencing and the role of international trade negotiations. On the former, it is tempting to argue that domestic policy reforms to strengthen the competitiveness of Brazilian companies should precede stronger integration. Despite ample scope for improvements, in practice this argument is likely to block any progress in the nearer term. Given the low growth prospects in the absence of structural reforms, Brazil cannot afford to hold its breath for a political consensus on all domestic reform agendas to arise. Instead, a gradual but credible reduction of trade barriers should be announced without further ado, which would still give domestic companies time to adapt. Ongoing efforts to improve the business environment would also help in the transition to a more open economy.

A similar question arises with respect to leveraging trade opening to negotiate better market access with trading partners. Brazil is a member of the MERCOSUL customs union, which has helped to strengthen trade linkages with other members of the trade bloc, in particular Argentina. At the same time, the exchange of goods and services with the rest of the region is weak (IMF, 2017c). Regional integration could be supported by negotiations with other trade blocs and countries in the region such as the Pacific Alliance or Mexico. Besides lowering tariff barriers, which in the case of Brazil are on average significantly lower for vis-à-vis countries in the region than those outside, a convergence of trade rules and regulatory standards could also play a significant role. Finally, weak connectivity among countries due to geographic factors and low investment in infrastructure has been identified as key reasons behind Latin America’s relatively low intra-regional trade integration. This highlights the importance of progress on the quality of transport infrastructure, the efficiency of customs management and the quality of logistic services (IMF, 2017c).

Beyond South America, a tighter integration with large foreign markets would have strong potential to deliver a significant boost in competition and access to intermediate goods. At present, Brazil has bilateral agreements with only about 10% of world GDP, while Peru and Chile have trade agreements covering about 70-80% of world GDP.
Negotiations such as those currently underway between Mercosul and the European Union/EFTA are important initiatives in which Brazil should play a leading role, taking advantage of the window of opportunity presented by recent policy efforts in Argentina to foster a greater integration into the global economy.

At the same time, the sometimes glacial pace of trade negotiations suggests to make unilateral advances alongside bilateral negotiations according to a gradual, pre-announced schedule on both tariffs and local content rules, which should be phased out without delay. Many Asian countries pursued a strategy of liberalising unilaterally in addition to regional and bilateral agreements, with tariffs often reduced for the purpose of attracting investment (Baldwin, 2006).

Table 6. Past OECD recommendations on improving the investment climate

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Actions taken since the 2015 Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consolidate consumption taxes at the state and federal levels and work towards one value added tax with a broad base, full refunds for input VAT paid and zero-rating for exports.</td>
<td>No action taken.</td>
</tr>
<tr>
<td>Reduce the level of trade protection steadily by lowering tariffs and scaling back local content requirements.</td>
<td>Local content requirements have been reduced in the oil and gas sectors.</td>
</tr>
<tr>
<td>Strengthen competition by streamlining regulation on product markets and implementing planned reductions in entry regulations.</td>
<td>No action taken.</td>
</tr>
<tr>
<td>Improve the technical capacity and planning for infrastructure concessions at all levels of government. Elaborate more detailed tender packages prior to launching tender calls.</td>
<td>No action taken.</td>
</tr>
<tr>
<td>Further expand the participation in vocational training to alleviate skill shortages for technical workers.</td>
<td>Participation in the PRONATEC programme has expanded, with 67% of participants being women, but it has sometimes missed labour market demands.</td>
</tr>
</tbody>
</table>

**Green growth challenges**

Brazil has made substantial progress in reducing its greenhouse gas emissions and is on track for meeting its reduction target by 2020, corresponding to a 40% reduction vis-à-vis a 1990 business as usual scenario. Most of this reduction has come from a decrease in deforestation of 82% in the decade leading up to 2014 (Figure 32). Reasons behind the progress include the fact that significant surfaces have been granted protection and stronger law enforcement following the implementation of the new 2012 forest code, enforced by satellite imagery.
Latest data, however, show annual increases of 24% and 29% in 2015 and 2016, respectively, which may be temporary as the enforcement budget has recently been restored (Figure 33). Nonetheless, a clearer definition of current environmental priorities would be useful. This should also include a clear commitment not to reduce those areas currently under environmental protection. The biodiversity of Brazil’s natural resources, including the Amazon rain forest, hold significant opportunities and potential to spur economic growth and social inclusion in what are currently economically lagging regions. A sustainable use of these natural assets is crucial for helping people in these regions to fulfil their productive potential. This includes people of indigenous origin who depend on the natural environment for their livelihoods and whose lifestyles are dependent on the preservation of Brazil’s natural habitats. Tapping more extensively into green finance could allow the financing of investments that generate environmental benefits.

Contrary to emissions from deforestation, energy-related and agricultural emissions have risen steadily as the economy, and particularly the agricultural sector, expanded. The composition of energy sources is favourable, however, with 44% of energy supply coming from renewable sources in 2015, compared to 9% in OECD countries (EPE, 2017). 62% of electricity comes from hydroelectric sources. Energy use from transport is on the rise in line with a growing vehicle fleet, but 17% of the fuel consumption consists of ethanol from sugar cane. This is the highest share of biofuel consumption worldwide and most passenger vehicles currently sold in Brazil can use either ethanol or gasoline (OECD, 2015d; OECD, 2015e). Taxes on fossil fuels have risen in line with previous OECD recommendations (Table 7). However, they are still low by international standards (Figure 34) and raising them further could strengthen incentives for biofuel use. Taxes on Diesel fuel should be raised at a minimum to the level of petrol as there is no environmental justification for lower taxes on Diesel (Harding, 2014). Higher fossil fuel taxes could help to reverse the recent increase in the CO2 intensity of the economy (Figure 35). Raising these taxes would also make growth more inclusive, as affluent households tend to consume more fossil fuels while the poor are most exposed to the negative health effects from air pollution.
Figure 33. Deforestation is increasing
Deforestation in the Amazon area (legal definition), in km²


StatLink 2 http://dx.doi.org/10.1787/888933655776

Figure 34. Taxes on fossil fuel are low in international comparison
Tax rate in USD per litre, 2015.

1. Brazil data pertain to 2016.
Source: OECD Tax Database, Petrobras.

StatLink 2 http://dx.doi.org/10.1787/888933655795
Table 7. Past OECD recommendations on green growth

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Actions taken since the 2015 Survey</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consider further increases in fuel taxes.</td>
<td>Fuel taxes have been increased in 2017 but remain low in international comparison.</td>
</tr>
<tr>
<td>Avoid a resurgence of implicit petrol subsidies in case of future oil price increases by adjusting petrol prices regularly.</td>
<td>Implicit petrol subsidies have not returned.</td>
</tr>
</tbody>
</table>

Figure 35. Green growth indicators


StatLink  
http://dx.doi.org/10.1787/888933655814
Bibliography


CNI (2014), Custo tributário dos investimentos: as desvantagens do Brasil e as ações para mudar, Confederação Nacional da Indústria, Brasília.


IBGE (2017), Tabela 5947 - Pessoas de 14 anos ou mais de idade, ocupadas na semana de referência, por contribuição para instituto de previdência em qualquer trabalho, available at http://www.sidra.ibge.gov.br/tabela/5947

IEDI (2011), Uma Comparação Entre a Agenda de Inovação da China e do Brasil, Instituto de Estudos para o Desenvolvimento Industrial .

IEDI (2014), A Reorientação do Desenvolvimento Industrial, Instituto de Estudos para o Desenvolvimento Industrial.


IMF (2017a), "Brazil: 2017 Article IV Consultation-Press Release; Staff Report; and Statement by the Executive Director for Brazil", International Monetary Fund, IMF Country Report No. 17/215, Washington, DC.


World Bank (2016), Brazil Systematic Country Diagnostic: Retaking the path to Inclusion, Growth and Sustainability, World Bank, Washington, D.C.


World Bank (2018), "Growth and jobs: Brazil’s productivity agenda", Forthcoming.
