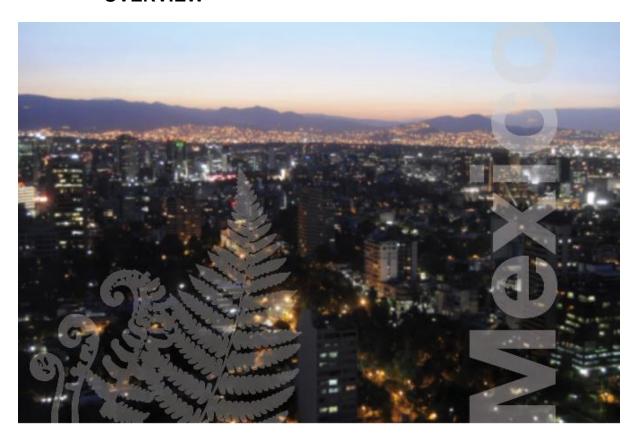


OECD Economic Surveys

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OVERVIEW



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Executive summary

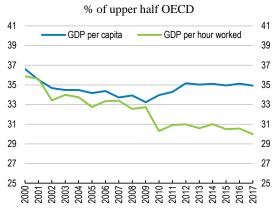
Moderate growth is underpinned by a strong macroeconomic framework

Commitment to fiscal targets, sound debt management, a flexible exchange rate and an appropriate monetary policy stance have supported moderate growth in spite of several headwinds in recent years.

Integration into global value chains is driving robust export growth while a recovery in real wages, strong remittances and credit growth have supported consumption. Declining oil production continues to be a drag on the economy and fiscal revenues. Investment remains subdued, reflecting policy uncertainty domestically as well as abroad, but also fiscal consolidation, which has helped to halt the rise in public debt against a generally weak redistributive role of fiscal policy.

Moderate growth has not improved relative living standards. This reflects low productivity growth, in turn influenced by poor educational outcomes, weak rule of law, obstacles to competition and widespread informality. Many of the recent reforms to open up the economy are yet to bear fruit, as their effects take time to materialise, implementation is still ongoing and institutional reform is lagging behind.

Figure A. Low productivity growth is stalling convergence of living standards

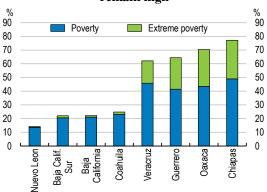


Source: OECD Productivity database.

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A growing divide between a more productive and modern economy in the north and centre of the country and a more traditional economy in the south reinforces inequalities. Despite increased social spending, poverty inequalities loom large. Greater equality of opportunities for women and indigenous people is needed to address high disparities in wellbeing.

Figure B. Poverty and inequalities across regions remain high



Source: CONEVAL.

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Growth will strengthen moderately in the medium term. Investment will recover on the back of planned infrastructure projects complemented with institutions conducive to private investment. Domestic consumption will be supported by increases in the minimum wage, continued low unemployment and strong remittances. Exports will keep supporting the economy, albeit at a lower rate.

Table A. Growth will strengthen moderately

	2017	2018	2019	2020	
	% cha	% change, volume (2013 prices)			
GDP at market prices	2.3	2.0	1.6	2.0	
Private consumption	3.4	2.2	1.3	2.2	
Government consumption	1.0	1.4	-0.6	0.3	
Gross fixed capital formation	-1.6	0.6	-1.8	2.2	
Exports of goods and services	4.0	5.7	2.9	4.9	
Imports of goods and services	6.7	6.2	4.2	4.5	
Consumer price index	6.0	4.9	3.8	3.6	
Current account bal. (% GDP)	-1.7	-1.8	-1.9	-1.8	

The outlook is subject to sizeable risks. Fast implementation of investment plans to boost oil production would raise exports and lower the energy trade deficit, but the goal of boosting oil production by the projected magnitude will likely require additional private investment. A firm commitment to fighting crime and

widespread corruption could create a more enabling business environment. On the other hand, policy uncertainty, also in the context of the need for all parties to ratify the new trade deal between Canada, Mexico and the United States, a slowdown in the global economy and renewed trade tensions would hinder exports and depress private investment.

The tax and transfer system could support growth and equity more firmly

The fiscal stance is appropriate given the high debt level. Over time, debt should be put on a declining path as fiscal space is increased with more revenues.

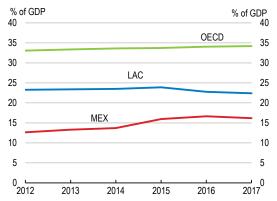
Tax collection should be raised over time. The 2014 tax reform raised non-oil revenues but tax revenue is still lower than in OECD and LAC countries on average. Furthermore, the reform did little to reduce disposable income inequality. Overall low tax collection limits social spending and infrastructure investment. There is room to raise the tax-to-GDP ratio in an inclusive way, by broadening the tax base, and continuing to fight tax evasion and avoidance, including by reinforcing federaland state-level tax administrations. Additional VAT revenue could be collected by applying the standard rate more generally, while implementing subsidies targeting the poor. The threshold for the top marginal personal income tax rate is relatively high and many exemptions and deductions benefit those with higher incomes.

Fiscal federal relations affect the quality and efficiency of public service delivery. The current fiscal equalisation mechanisms have not promoted regional convergence nor reduced inequalities across states. responsibilities across levels of government and achieving a better match between service delivery and tax collection would improve accountability at the state and municipal level and raise tax collection.

Social programmes are too numerous and do not always reach the poorest. Making use of the beneficiary database (SISI) and matching it

with the social census could detect nonentitlement, beneficiary overlaps, material deprivations at the household level and duplications in social programmes. This would free more resources to attend to the needs of the most vulnerable. Reducing fragmentation in the delivery of health services and pension systems would improve service quality and equity, as well as fiscal sustainability.

Figure C. Tax revenue is low



Source: OECD Global Revenue Statistics Database.

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Strengthening the quality of institutions

The rule of law and quality of institutions in Mexico is low and has deteriorated, disproportionally hurting the poor. Impunity levels are extremely high, violent crime continues to grow and control of corruption is weak compared not only with OECD countries, but also Latin American and Asian economies. The cost of crime is high and its incidence varies greatly across regions, widening existing regional disparities in well-being.

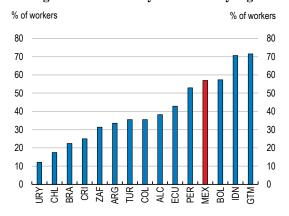
Improving institutional quality would have the largest growth benefits among all structural reforms and would increase the impact of all other policy reforms. Corruption affects the business environment, public spending efficiency and trust in the public sector. The implementation of the National Anticorruption and Local Anticorruption Systems should be completed. Recent reforms to create independent competition authorities and sector regulators have been positive. The

autonomy of these entities should be maintained and resourcing levels should allow them to undertake their mandates effectively and continue to build their capacity.

Unleashing productivity and inclusiveness

persistently informality high constrains productivity growth and fiscal capacity to provide public benefits and redistribute. It also feeds inequality of incomes and opportunities. Informality is affected by many complex factors. The expansion of universal protection associated with low benefits of formalisation reduces its attractiveness. Segmentation in the provision of social services according to labour market status should be progressively reduced while benefits associated with formalisation should be strengthened. Reducing the high and uncertain costs of dismissing a formal worker and introducing an unemployment insurance scheme would reduce disincentives to formal job creation while better addressing the personal costs of job loss. Enforcement could be improved by integrating the tax and social administrations. Social security security contributions of low-skilled workers could be reduced.

Figure D. Informality is stubbornly high

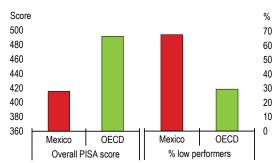


Source: SEDLAC and INEGI.

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While education services have expanded, educational outcomes productivity growth, contribute to persistent inequalities and job informality. Education spending should be re-focused on pre-primary, primary and secondary education and more should be done to increase the capacity of schools in poor neighbourhoods and to support children from disadvantaged backgrounds. Increasing the quality of early childhood care and access among low-coverage regions and children from disadvantaged backgrounds would be a cost-effective way to boost educational outcomes. and ultimately productivity, while also reducing inequality. It would also increase women's labour market pariticipation, which is one of the lowest in the OECD. School infrastructure and pedagogical material could be improved. Given the high rates of youth not in employment, education or training, particularly among women, the government's plans for a large internship programme are welcome. The programme should ensure strong female participation, and its results in generating stable and formal jobs should be evaluated with a view to further expanding them into a vocational educational and training programme.

Figure E. PISA outcomes are poor



Source: OECD PISA database.

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Integrating environmental concerns into policy making has much potential to improve economic and environmental outcomes. Reforms in the governance of the large areas would enable metropolitan governments to plan land use, public transport and housing in an integrated manner, boosting productivity and lowering congestion and air which affects low-income pollution. households the most.

MAIN CHALLENGES	KEY RECOMMENDATIONS
Maintaining a strong macroeconomic	c framework and finding resources for more equitable growth
Public debt is on the high end for an emerging economy.	Maintain a prudent fiscal stance to keep the debt-to-GDP ratio stable and consider lowering it over the medium-term.
Inflation is still above target.	Maintain the current monetary policy stance to curb inflation.
Concentration in the banking sector, the cost of credit and spreads are high. Financial inclusion remains low.	Accelerate the current initiatives to enhance financial inclusion, financial literacy and competition. Monitor outcomes.
	Move towards making all government transfers to households through bank accounts or electronic means.
Tax collection is low. A narrow tax base and high tax evasion limit the resources to finance needed infrastructure investment and policies to reduce poverty and inequality.	Develop a comprehensive tax reform for implementation in the medium term. Broaden the VAT base by cutting exemptions and abolishing reduced rates while compensating the poor with targeted subsidies. Increase the progressivity of personal income tax by lowering the income threshold
	for the top rate and further cut back tax allowances or convert them into tax credits. Build a nationwide property register to make more use of recurrent taxes on immovable property.
Social spending is low, while duplications and leakages in social assistance programmes lead to inefficiencies.	Continue to reduce duplication of social programmes, beneficiary overlaps and expand coverage to the poor not receiving social benefits.
The fiscal framework is robust but transparency and accountability could be improved.	Establish a non-partisan, independent and adequately resourced fiscal council, along the principles defined by the OECD.
The fiscal federalism framework limits the incentives of local authorities to increase tax collection and leads to low quality subnational spending.	Revise the Ley de Coordinación Fiscal to redefine and clarify responsibilities of public service delivery across the three levels of government and cut overlaps. Build capacity and professionalise the civil service at the state and municipal levels.
The capacity of the tax administration is low.	Further strengthen the tax administration through adequate staffing and resourcing and improve technological capabilities. Link the tax administration (SAT) and the social security databases to improve tax surveillance and compliance.
Stre	engthening inclusive growth
Female labour market participation is low.	Expand access to good quality, affordable childcare. Increase the length of the preschool day for three- to five-year-olds.
	Reduce high female drop-out rates in education.
Despite good progress to foster integrity, corruption remains widespread. High crime rates hinder economic activity and citizens' well-being, particularly impacting the poor and women.	Complete the implementation of the National and Local Anticorruption Systems reforms and monitor the results. If needed, consider introducing a specialist, independent anticorruption agency that takes into account the federal structure of the government.
5	Continue efforts to reduce crime and impunity.
Despite wide-ranging reforms, competition remains weak.	Ensure that the competition authorities and sector regulators have adequate resourcing and independence to carry out their mandates effectively.
Informality is high, leading to severe resource misallocation, low productivity and access to social services.	Lower social security contributions for low wage earners. Step up enforcement. Implement a coordinated approach to reduce informality, comprising lower administrative burdens to doing business, including tax compliance costs, and reduced dismissal costs while stepping up social protection. Lead by example and progressively reduce the number of informal workers in the
	public sector.
Education outcomes are low, contributing to high and persistent inequalities and holding back productivity	Raise the quality and coverage of early childhood education and care programmes and delink them from parents' labour market status.
growth.	Continue to expand VET coverage, assess the results of the internship programme and encourage female participation.
High pollution in metropolitan areas raises sickness and mortality, especially among the poor, and reduces productivity and is strongly related to car use.	Allow and encourage municipalities to create joint metropolitan governance arrangements on their own initiative, in particular metropolitan transport authorities. Invest in integrated public transport systems focusing on improving access in low-income areas.
On current policies, Mexico is unlikely to meet its CO2 emission reduction targets. Fossil fuel use contributes to air pollution.	Raise the carbon tax gradually and predictably, eliminate exemptions and reduced rates and compensate the poor. Resume long-term auctions to encourage the supply of renewable energy, linking the remuneration of supply to market conditions

Key policy insights

Moderate growth over the past two decades has been supported by oil wealth, working age population growth, and open trade and investment policies. A solid macroeconomic framework has delivered fiscal discipline, abated inflation and enabled Mexico to weather well various commodity price and emerging markets shocks (Figure 1). Oil production has been declining, dropping from 9% to 4% of GDP, and from 16% to 6% of total exports over the last decade.

Aided by NAFTA, Mexico developed into a manufacturing hub by deepening its integration into global value chains and exports' share of GDP climbed from 19% of GDP in 1990 to 38% of GDP in 2017. Manufactured goods account for 80% of exports and go mostly to the United States (Figure 2) despite intense competition from China (Araújo, Chalaux and Haugh, 2018_[1]). While medium-technology exports still dominate goods exports, the share of high technology and more complex goods has been increasing over time and export growth has been driven by the expansion of current trade relationships, as in other countries (Araújo and Hitschfeld Arriagada, 2019[2]). Although Mexico is well integrated into global value chains (GVCs) from a backward participation perspective, the share of Mexican value-added embodied in foreign demand (forward participation) remains below that of peer countries. Services' exports are also lagging behind and the share of firms engaging in GVCs is low compared with other countries.

Remittances have been increasing at a robust pace over the past three years providing support to the current account and to private consumption, particularly of low income families. In 2018 remittances totalled about USD 33 000 million, reaching a new historical high. Remittances represent close to 3% of GDP and remittances per capita have grown substantially over time (Figure 3). In 2018, 94% of these flows originated in the United States. Remittances are highly concentrated by destination, with seven states accounting for about half of the flows. In Mexico, remittances have been used to start or support business enterprises (Finkelstein Shapiro and Mandelman, 2016_[3]) and evidence suggests that they have been used as part of a households' income generation strategy rather than incentivising a reduction in labour supply (Cox-Edwards and Rodríguez-Oreggia, 2009_[4]). Remittances have also been associated with an increase in school attendance and a reduction in child labour (Alcaraz, Chiquiar and Salcedo, 2012_[5]).

Despite moderate growth, Mexico has not converged towards higher living standards and the gap in GDP per capita with the OECD average and the United States has not narrowed (Figure 3). Informality remains high, encompassing nearly 60% of formal jobs and about a quarter of GDP. Inequality and poverty declined only moderately, and large gaps prevail between regions while poverty disproportionally affects the indigenous population (Figure 5, Figure 6).

A. Real GDP growth Year-on-year changes, % 8 MEX OECD USA LAC5 7 6 5 4 3 3 2 1 0 0 -1 -2 2009 2010 2011 2002 2003 2004 2005 2006 2007 2008 2012 2014 2015 2016 2017 B. Decomposition of potential GDP growth % per year 4.0 4.0 Capital per worker Employment rate Participation rate 3.5 3.5 ■ Working-age population Potential growth 3.0 3.0 2.5 2.5 20 20 1.5 1.5 1.0 1.0 0.5 0.5 0.0 0.0 -0.5 -0.5 -1.0 -1.0 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2001 2002 2003 2016 2017 2018

Figure 1. Growth has been driven mainly by demographics

Note: LAC5 refers to the unweighted average of Argentina, Brazil, Chile, Colombia and Costa Rica. Panel A is a 3-year moving average.

Source: OECD Analytical Database; OECD Demography and Population Database.

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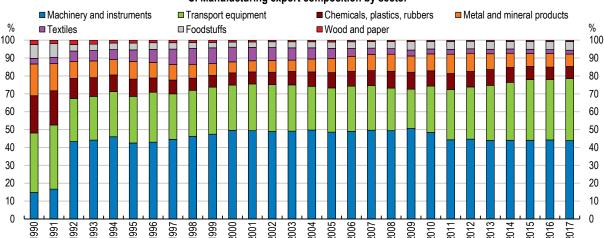
Gender inequalities remain large in Mexico and low female labour market participation represents untapped potential to lift growth, alleviate poverty and increase women's well-being (Chapter 1). While Mexico has made some progress in increasing women's participation in the labour force since the early 1990s, at 47%, it is one of lowest rates in the OECD (Figure 7) and significantly lower than Mexican men's participation rate of 82%. Many barriers prevent Mexican women from engaging in the labour force. More than one-third of women drop-out of school and are not in employment, education, or training (NEETs), compared with less than 10% of men. This not only impairs women's likelihood of finding good quality, formal jobs but also exacerbates the gender pay gap. Although cultural norms play a role, high insecurity harms women in particular (Figure 8). The participation of mothers in the labour market is low, in part owing to the tradition of long working hours and the lack of quality and affordable early childhood education, especially for children less than three years of age. Expanding access to good quality affordable early

childhood education and care for all should be a priority as it entails a double dividend of raising outcomes and equity in education and facilitating women's participation in the labour market.

There are also gender gaps in the usage of financial services, which also hamper women's entrepreneurship (OECD, 2017_[6]). Self-employed women tend to be own-account workers more than employers, and start their businesses at a smaller scale and in a limited range of sectors (OECD et al., 2014_[7]). Striking differences arise on a wide range of financial inclusion indicators, including asset ownership, usage of insurance services and having a retirement savings account, the latter representing a higher risk of old-age poverty for women relative to men. One of the three horizontal pillars of the National Development Plan is gender equality (Box 1). Going forward, current plans to deepen financial inclusion and literacy should have a gender dimension and progress should be monitored.

A. Merchandise exports to top 5 market B. Contributions to growth of Mexican destinations merchandise exports by country % Billions of 2017 USD 2018 compared to 2017 400 100 ■ CHN ■ DEU ■ ESP ■ JPN ■ CAN ■ USA △ Share (RHS) Spain 2% 350 Netherlands Others 2% 300 95 India 4% 250 Canada 200 90 150 Δ 100 85 United States 76% 50 0 2000 2017 C. Manufacturing export composition by sector

Figure 2. Exports to the US are driving total export growth



Note: Panel B represent export markets contributions to changes in the merchandise trade balance. Source: Araújo and Hitschfeld Arriagada (2019[2]); OECD calculations using data from Banco de México and BACI; Bilateral Trade in Goods by Industry and End-use (BTDIxE), ISIC Rev.4.

Other social and well-being indicators show some improvements (Figure 5). The most significant improvements have been made in healthcare by progressing towards universal access via Seguro Popular. However, just over 40% of the population with formal jobs have access to social security. Well-being lags behind the OECD average, especially mortality rates, education, perceptions of corruption and broadband internet access (Figure 9). Large differences in well-being also exist across regions, and southern states are largely disconnected from the positive dynamics of North American free trade (OECD, 2015_[8]) (Figure 9).

A. Remittances as a percentage of GDP, 2018 5.0 5.0 4.5 4.5 4.0 4.0 3.5 3.5 3.0 3.0 2.5 2.5 2.0 2.0 1.5 1.5 1.0 1.0 0.5 0.5 0.0 0.0 PEER 엉 EST FR B. Remittances per capita 2010 USD 300 300 250 250 200 200 150 150

Figure 3. Remittances have been increasing

Note: LAC5 is an unweighted average of Argentina, Brazil, Chile, Colombia, and Costa Rica. PEER is an unweighted average of the 10 non-Latin American OECD countries with the lowest PPP-adjusted GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia, and Turkey. DAE5 is an unweighted average of Indonesia, Malaysia, Philippines, Thailand and Viet Nam. Source: World Bank World Development Indicators, IMF World Economic Outlook (October 2018), Banco

0 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

de México.

100

50

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100

50

% of OECD avg % of OECD avg 48 115 GDP per capita (LHS) Labour productivity (LHS) Labour utilisation (RHS) 113 46 111 45 109 44 107 105 43 42 103 41 101 40 39 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2015 2016 2017

Figure 4. Growth has not been strong enough to allow for convergence to higher living standards

Note: GDP per capita and labour productivity relative to the OECD average in constant PPP-adjusted USD terms. Labour productivity is GDP per hour worked. Labour utilisation is hours worked per capita. Source: OECD Productivity Database.

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Moderate growth reflects low productivity due to largely structural factors: high informality influenced by complex labour and business regulations, resource misallocation, poorly functioning credit markets, low competition in key sectors, poor educational outcomes, and large infrastructure gaps. Huge differences in regional productivity also drag down aggregate productivity and growth (see Chapter 1).

To reignite productivity growth and improve living standards, Mexico has embarked on an ambitious programme of reforms in labour markets, competition, education, anticorruption, financial sector openness and inclusion and judicial reform. Implementation of some of these reforms is completed: independent competition authorities were established, telecommunications and energy sectors were opened to competition, and justice reforms advanced to implement oral adversarial trials. In some, such as energy and education, reforms will be modified (Annex A, Box 1). The new policies and programmes of the government, including the modifications to previous reforms, should be subject to best practice tools, including cost-benefit analysis and regulatory impact assessment.

A. Poverty rate after taxes and transfers, by country %, 2016 or latest available year 30 30 25 25 20 20 15 15 10 10 5 5 0 RUS GBR AUS JPN MEX ¥ 님 **B. Social deprivation** 70 70 2016 △ 2010 60 60 50 50 40 40 30 30 Δ 20 20 10 10 0 0 Overcrowded and low Lack of access to basic Lack of access to basic Lack of access to food Lack of access to health Lack of access to social educational services housing services security C. Poverty and extreme poverty per state %, 2016 80 70 60 50 40 30 20 10 80 70 60 50 40 30 20 10 Poverty Extreme poverty Coahuila Sinaloa Colima Yucatan Tabasco Tlaxcala Puebla Oaxaca Chiapas Aguascalientes Quintana Roo Nayarit Guanajuato Campeche San Luis Potosi State of Mexico Zacatecas Baja Calif. Sur 3aja California Mexico City Queretaro **Tamaulipas** Michoacan Veracruz Nuevo Leon

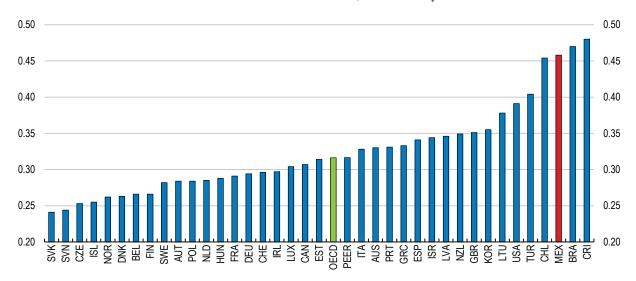
Figure 5. Poverty rates are still high but differ greatly across states

Note: Panel A: the poverty rate is the share of people whose income falls below 50% of the median income. Panel C: CONEVAL's multi-dimensional poverty measure considers income plus six social dimensions of well-being (as presented in Panel B). The population in extreme poverty is the group whose income cannot ensure adequate nutrition and who is deprived in at least three of the six social indicators. The population in poverty includes those whose income cannot ensure adequate access to nutrition and basic services and who are deprived in at least one of the social indicators.

Source: OECD, Income Distribution and Poverty database; CONEVAL (Consejo Nacional de Evaluación de la Política de Desarrollo Social).

Figure 6. Inequality is high

Gini index after taxes and transfers, 2016 or latest year



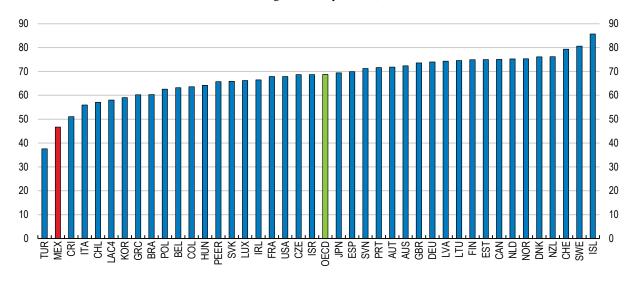
Note: Data for Mexico refer to 2014. PEER is an unweighted average of the 10 non-Latin American OECD countries with the lowest PPP-adjusted GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia, and Turkey.

Source: OECD Income Distribution and Poverty Database.

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Figure 7. Female labour market participation is low

Percentage of 15-64 year olds, 2017



Note: LAC4 is an unweighted average of Brazil, Chile, Colombia, and Costa Rica. PEER is an unweighted average of the 10 non-Latin American OECD countries with the lowest PPP-adjusted GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia, and Turkey. Source: OECD Social Protection and Well-Being Database.

Figure 8. Security is low, hurting women in particular

Percentage of people who report feeling safe walking alone at night

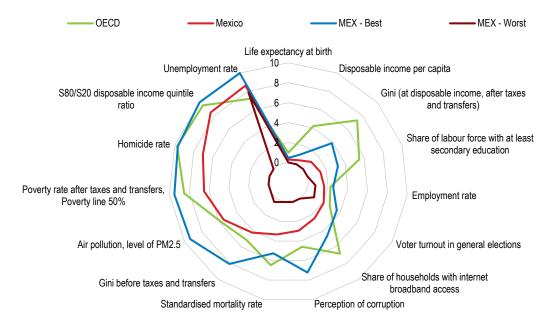


Note: PEER is an unweighted average of the 10 non-Latin American OECD countries with the lowest PPP-adjusted GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia, and Turkey. The reference period is the 3-year average 2014-2016 for all countries. *Source*: OECD Better Life Index, 2017.

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Figure 9. Well-being varies greatly across states

Well-being indicators for Mexico and OECD countries, 2014 or latest available year

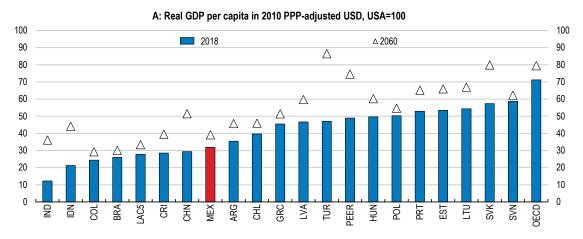


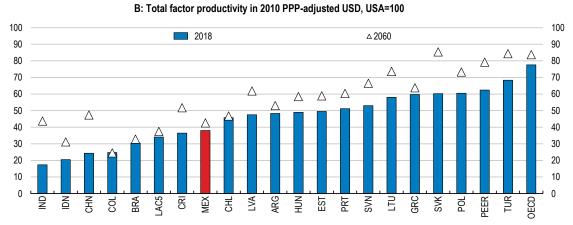
Note: Indicators are normalised to a range of 0 (worst) to 10 (best) computed over OECD countries and Mexican states.

Source: OECD Regional Well-being database.

Many of these reforms have helped Mexico to improve legislation and regulatory frameworks. While the gains in productivity, growth and reduced inequality will take longer to materialise, several reforms have already produced concrete and important results. For example, the telecommunications reform spurred competition, promoted investment, significantly increased access to services, increased quality and contributed to a remarkable drop in the prices of these services, benefiting low-income households disproportionately (Ennis, Gonzaga and Pike, 2017[9]). For mobile broadband, the price decrease ranged from 69% to almost 81% for all OECD communication baskets over the past five years. In 2013, only 9% of households with fixed internet could surf at advertised speeds in the range of 10 to 100 Mbps. In June 2018, around 80% of all fixed household connections were in this speed tier. However, the full implementation of the reforms has been a challenge and a renewed comprehensive strategy is needed to raise productivity and living standards for all Mexicans. Beyond completing the implementation of past reforms, Mexico needs a new wave of reforms focused on well-being and inclusion creating equal opportunities for all. Without reforms, Mexico will converge only slightly towards US living standards by 2060 (Figure 10).

Figure 10. Without policy reforms, Mexico's convergence to higher living standards will be





Note: Based on the "baseline" scenario of the "OECD Long-term Scenarios for the World Economy" database. PEER is the weighted average of Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. LAC5 is a weighted average of Argentina, Brazil, Chile, Colombia and Costa Rica. Source: OECD Long-term Scenarios for the World Economy database.

Box 1. Key features of new government's programme

In Mexico, the National Development Plan (NDP) is the key planning document to establish the national public policy priorities. The 2019-2024 NPD has as a general objective to "Transform the country's public life to achieve greater well-being for everyone". To attain this objective the Plan has three main pillars that are a thematic division to group identified problems and identify the broad objectives of public policy, and three horizontal pillars than include those public problems that are transversal and should be included in the design of public policy.

The main pillars are:

- Justice and rule of law: Policies for guarantying the construction of peace, the full exercise of human rights, democratic governance and the strengthening of Mexico's political institutions.
- Welfare (Bienestar): Policies for guarantying the effective exercise of economic, social, cultural and environmental rights, with emphasis on the reduction of inequality and vulnerability conditions of populations and territories.
- **Economic Development**: Policies aimed at increasing productivity and promoting an efficient and responsible use of resources to contribute to balanced economic growth that guarantees equitable, inclusive and sustainable development throughout the entire territory.

Most public problems are multidimensional and require coordinated efforts by several ministries and public entities. Nonetheless, for some problems, their solutions would benefit from a transversal perspective and from its consideration in the design of all public policies. For that purpose, three horizontal pillars have been defined:

- Gender equality, non-discrimination and inclusion
- Fight against corruption and improve public management
- Territorial and sustainable development.

To date, some main policy actions and targets that have been announced by the government include:

- Modernise road infrastructure.
- Expand the train network (Maya train and Istmo train projects): the 2019 budget allocates MXN 6 000 million to the Maya train project (about 0.14% of total budgetary spending) which will be spent on repairing existing railroads that integrate the Maya train project. The expansion of the rail network will require cost-benefit analysis, as defined in the legislation (Diario Oficial de la Federación, 2015_[10]) and in agreement with the Federal Law on Budget and Treasury Responsibility (2015_[11]). The participation of the private sector will require a value-for-money assessment, as defined in the Public-Private Participation Law (Diario Oficial de la Federación, 2012_[12]). The total estimated cost of the Maya train project is MXN 150 billion.
- Rehabilitate strategic ports in the south (Coatzacoalcos in Veracruz, Salina Cruz in Oaxaca and Ciudad Hidalgo in Chiapas).

- Increase oil production and refining, by reinforcing PEMEX's budget and reducing its taxation, initiating production in 20 newly discovered oil fields (16 shallow water and four onshore) in the region of the Gulf of Mexico, rehabilitating six refineries and constructing a new refinery in Dos Bocas. PEMEX's business plan includes restoring financial health, in particular achieving a positive cash-flow before interest payments and improving corporate governance. Ongoing contracts signed with the private sector for oil exploration as part of the 2013 energy reform have been evaluated and are going forward. Planned oil auctions have been delayed to review the results of the private sector involvement thus far. Negotiations with the private sector are ongoing. Boosting oil production by the projected magnitude will likely require additional private investment. (See Box 2, Table 2 and Table A.1.)
- Modernise hydroelectric plants.
- Improve urban infrastructure.
- Expand and improve housing quality.
- Promote tourism.
- Expand microcredit (see Table A.1.).
- Create the "Northern Border Zone" (see Table A.1).
- Raise pensions (doubling of PAM old-age pensions) (see Table 6).
- Raise disability subsidies.
- Increase provision of student scholarships (see Chapter 1 and Table A.1.).
- Expand and unify healthcare.
- Raise the minimum wage.
- Expand and improve educational quality, including a large VET programme "Youths Building the Future", aiming to reach about 2.3 million youths aged 18-29 not in education, employment or training (see Box 1.2 in Chapter 1).
- Introduce guaranteed minimum prices for small producers of five agricultural products.
- Adopt and implement a new anti-drug policy.
- Step up security by raising the number of police staff and army.

A renewed strategy to boost growth and well-being is needed

The new government took office on December 1 2018. Raising growth and fighting corruption, and reducing poverty and inequalities feature high in its agenda for 2019-2024 (Box 1). It plans to re-allocate spending towards new priority areas, without increasing taxes in the first half of its term nor raising the public-debt-to-GDP ratio.

To aid in the formulation of this agenda, this Survey provides analysis and recommendations in several of these areas (Box 1) and in other recent reforms (Table A.1), including institutional quality. The latter is not only important in itself, but is also key for the success of all other reforms as it improves governance and a rules-based system increases certainty.

Against this background, the main messages of this Survey are:

- Maintaining macroeconomic stability is key to smooth adjustment to shocks and to provide confidence to economic agents in the medium term.
- Implementing a comprehensive strategy to boost productivity and inclusiveness by improving incentives to job and business formalisation, improving regulations to spur competition, boosting infrastructure, raising educational outcomes, further enhancing trade and participation in global value chains and strengthening the redistributive role of fiscal policy.
- Increasing equity and providing opportunities for all, including women, indigenous population, and lagging regions should be an integral element of the reform agenda. Institutional reform would deliver stronger growth and increase fairness and opportunities for all. Reducing corruption, insecurity and crime would boost economic activity and especially benefit the poor and underprivileged.

Reform complementarities are important. While each individual policy reform is important in itself, due to policy interactions and complementarities, a package of reforms will have a greater positive impact on economic outcomes (Hanson, 2010_{[131}). For example informality, which contributes to low productivity, is influenced by many factors. Furthermore, low productivity itself may keep companies informal. This highlights that causation tends to run in both directions (Andrews, Caldera Sánchez and Johansson, 2011_[14]) which calls for a comprehensive programme including all other productivityenhancing policies. Improving simultaneously the quality of institutions, reducing corruption and increasing the efficiency of the judicial system would strengthen contract enforcement and incentives to firm formalisation, investment and growth (Sukiassyan and Nugent, 2005_[15]; Laeven and Woodruff, 2007_[16]; Sukiassyan and Nugent, 2008_[17]). Infrastructure needs are extensive, and are holding back greater integration into global value chains and the delivery of public services, but also highlight that better institutional arrangements could increase public spending efficiency and provide greater certainty for private investment.

A robust macroeconomic policy framework underpins moderate growth

Aided by a strong macroeconomic policy framework, the economy continues to show resilience amid several headwinds. Fiscal and monetary policies have been prudent in a credible framework. Vulnerabilities were reduced by decreasing the reliance on external public debt financing, increasing the use of fixed rates and cutting the public debt-to-GDP ratio (OECD, 2017_[6]) (Figure 11). External private and public debt have remained fairly constant in recent years while sovereign bond spreads have risen somewhat in the last months of 2018 (Figure 11, panels E and F). Foreign reserves are comfortable (IMF, 2018_[18]) (Figure 12). The Flexible Credit Line (FCL) was renewed in November 2018, allowing access to about USD 74 billion (600% of Mexico's SDR; about 20% of external debt). It is a testament to Mexico's robust macroeconomic policies, and has been an effective complement to international reserves, providing an important buffer against tail risks and bolstering market confidence. Authorities continue to treat the FCL arrangement as precautionary and plan to phase it out gradually, subject to a winding down of external

Despite a sharp fall in oil prices and the protracted decline in Pemex's oil production since 2004 (Box 2), a small current account deficit has been maintained due to declining public deficits and a flexible exchange rate. The current account deficit remains entirely financed by FDI inflows, which have remained broadly stable.

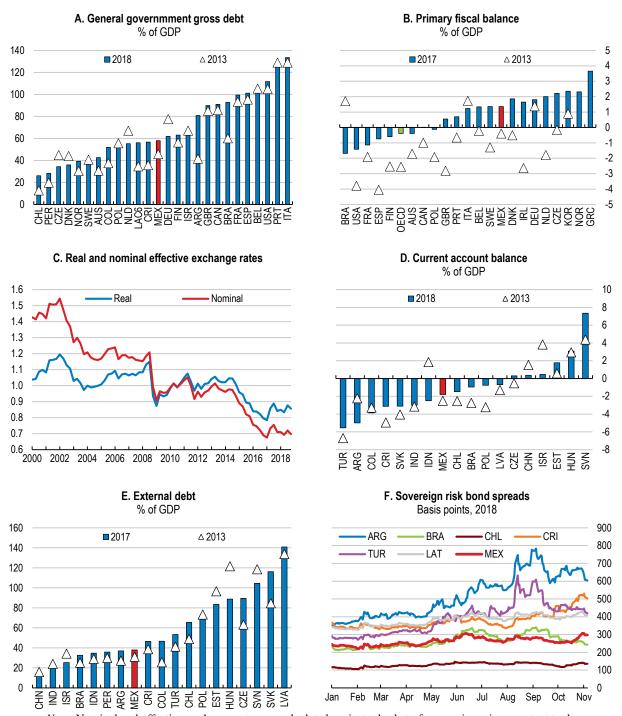
Box 2. PEMEX

Pemex - Petróleos Mexicanos - is the largest company in Mexico. A state-owned company, Pemex has become one of the few fully integrated oil companies, developing the entire productive chain: exploration, production, industrial processing/refining, logistics and marketing. Pemex's governance is not in line with the OECD Guidelines on Corporate Governance of State-Owned Enterprises, despite the improvements that were made as part of the 2013 energy reforms (OECD, 2015_[19]; Meehan, 2019_[20]), and it is recommended that reforms to increase adherence to the Guidelines are made.

Efficiency problems, alleged corruption and over-taxation (currently at 65% of the company's operational revenues) have led to underinvestment and declining output. Production peaked in 2004 at an average of 3.383 million barrels per day, declining to 1.833 million barrels a day in 2018.

Currently, Pemex is the world's most indebted oil company, owing about USD 105 billion, or about 9% of Mexico's GDP. The government intends to restore PEMEX's financial health, and increase oil production. The recapitalisation of PEMEX of an amount of USD 1.3 billion was approved in the 2019 budget and aims at reducing its liquidity needs in the short term and supporting the company's investment plans. Additional plans to restore the company's financial health include the monetisation of USD 1.8 billion of debt related to the company's pension liabilities. Additionally, to reduce the tax burden, the government is increasing the cost deduction cap to levels similar to contracts with the private sector for 5% of the production platform (USD 0.75 billion) each year from 2019 to 2024. In the meantime, the government has put on hold planned auctions for oil exploration by the private sector. The high levels of Pemex's debt limits its access to external financing. PEMEX needs to refinance more than USD 6 billion of payments due in 2019. Therefore, announced plans have been deemed insufficient by investors, given the company's investment plans to increase oil production and simultaneously rehabilitate the existing six refineries and construct a seventh one in Dos Bocas (Box 1). As a consequence, one rating agency has lowered the outlook of Pemex from stable to negative while another has lowered by two notches the rating of the company's debt, changing also the outlook of sovereign debt from stable to negative. The government is currently evaluating options to reduce the cost of rolling-over PEMEX's debt this year.

Figure 11. The Mexican economy benefits from strong economic fundamentals



Note: Nominal and effective exchange rates are calculated against a basket of currencies using constant trade weights. A depreciation indicates an improvement in competitiveness. LAC6 refers to the unweighted average of Argentina, Brazil, Chile, Colombia, Costa Rica and Peru.

Source: OECD; Secretaría de Hacienda y Crédito Público; IMF World Economic Outlook October 2018; Thomson Reuters.

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A. International reserves to total external debt B. International reserves to total external debt %. Mexico %, 2017 or latest year 60 200 180 50 160 140 40 120 30 100 80 20 60 40 10 20 0 2007 2009 2011 2013 2015 2017 ARG TUR CRI IDN COL MEX BRA

Figure 12. External debt has declined and foreign exchange reserves are adequate

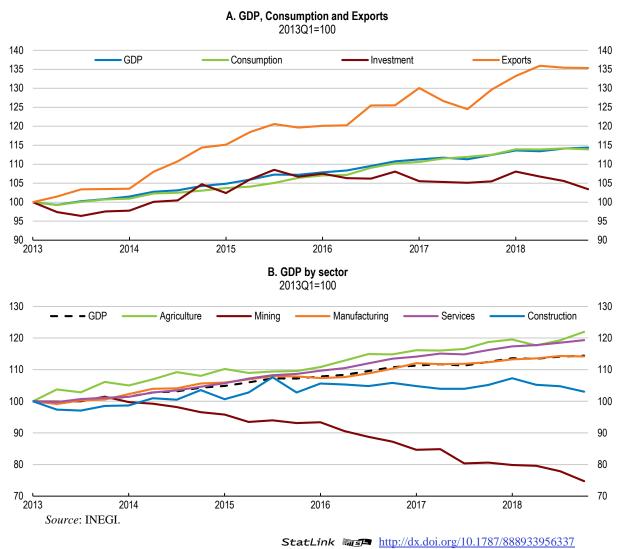
Note: Total external debt is debt owed to non-residents and is the sum of public, publicly guaranteed, and private nonguaranteed long-term debt, use of IMF credit, and short-term debt. Short-term debt includes all debt having an original maturity of one year or less and interest in arrears on long-term debt. Source: World Bank, World Development Indicators database; IMF.

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External demand has been sustained by strong US growth and the real depreciation of the peso, while lingering economic uncertainty and substantial fiscal consolidation have taken a toll on investment (Figure 13, Figure 16). The prolonged contraction in oil production has partially offset the modest but broad expansion of the other sectors in the economy. Private consumption has benefitted from the on-going expansion of the employmentintensive services sector, strong remittances and credit expansion following recent reforms to boost financial liberalisation and inclusion. After a prolonged deceleration followed by a decline in 2017, real wage growth in the formal sector, comprising little more than 40% of workers, increased mildly in 2018, which is also supporting domestic consumption.

Growth has decelerated markedly in the last quarter of 2018, owing to weak investment and lower export growth, as the US economy slowed down and trade tensions and policy uncertainty, domestic as well as external, remained, denting business confidence. Some continuing concerns about Mexico's business climate among investors, reflecting policy uncertainty due to external as well as internal factors, may also have led to a delay in projected investments. Economic activity stayed subdued in the first months of 2019 as disruptions in gasoline supply, strikes in northern and midwest Mexico and railroad blockades negatively affected urban areas and supply chains. However, these effects are likely to have only a temporary effect on economic activity, and some planned production in the first quarter is likely to be shifted to the second quarter.

Figure 13. Investment and oil production are weighing on the economy



Output growth is projected to accelerate driven by private consumption and government plans to boost infrastructure investment and raise energy production by 2020 (Box 1, Table 1). Private investment will also add to growth as uncertainty subsides and the economy more firmly reaps the benefits of past structural reforms. However, export growth will lose steam in line with the projected slowdown in US growth and the strong level of correlation between US and Mexican manufacturing production (Banco de México, 2015_[21]; Banco de México, 2018_[22]; OECD, 2018_[23]).

Table 1. Macroeconomic indicators and projections

	2015	2016	2017	2018	2019	2020
	Current prices	Percentage changes, volume				
	MXN billion		(2013 prices)		
GDP at market prices	18562.7	2.7	2.3	2.0	1.6	2.0
Private consumption	12167.5	3.5	3.4	2.2	1.3	2.2
Government consumption	2288.3	2.6	1.0	1.4	-0.6	0.3
Gross fixed capital formation	4179.4	1.1	-1.6	0.6	-1.8	2.2
Final domestic demand	18635.2	2.8	2.0	1.7	0.4	2.0
Stockbuilding ¹	308.7	0.1	0.0	0.1	0.0	0.0
Total domestic demand	18943.9	2.9	1.9	1.8	0.4	1.9
Exports of goods and services	6410.3	3.7	4.0	5.7	2.9	4.9
Imports of goods and services	6791.5	2.4	6.7	6.2	4.2	4.5
Net exports ¹	-381.2	0.4	-1.1	-0.3	-0.6	0.1
Memorandum items						
GDP deflator	_	5.5	6.7	5.3	4.7	5.1
Consumer price index	_	2.8	6.0	4.9	3.8	3.6
Core inflation index ²	_	3.0	4.7	3.8	3.5	3.4
Potential growth	2.8	2.7	2.6	2.4	2.3	2.3
Output gap (% of GDP)	-0.1	-0.1	-0.4	-0.8	-1.6	-1.8
Unemployment rate ³ (% of labour force)	_	3.9	3.4	3.3	3.5	3.4
Current account balance (% of GDP)	_	-2.2	-1.7	-1.8	-1.9	-1.8
Public sector borrowing requirement ⁴	_	-0.5	-1.1	-2.5	-2.5	-2.2
Public sector primary balance (% of GDP)	-3.2	-0.7	0.4	0.6	0.9	1.4
Fiscal impulse (% of GDP)	-0.3	-0.5	-2.2	0.1	_	_

1. Contributions to changes in real GDP; actual amount in first column. 2. Consumer price index excluding volatile items: agriculture, energy and tariffs approved by various levels of government. 3. Based on National Employment Survey. 4. Central government, development banks and public enterprises. The public sector borrowing requirement is the broadest measure of public sector balance used by the government, but it does not fully take into account the position of the overall public sector. In 2016 and 2017, it includes the operating surplus of the central bank.

Source: OECD Economic Outlook Database; Fiscal impulse estimates from the International Monetary Fund.

The rise in the minimum wage, at about 40% of the median wage, should boost incomes and consumption of lower skilled workers in the formal sector, but may push others into informality (Figure 14, Figure 15). The impact on inflation is mitigated by the removal of minimum wage indexation from 2 413 legal provisions in 2016. In the border zone, where the minimum wage was raised by 100%, there is some early evidence that other wages are rising as well. The government intends to monitor the effects on the economy before considering further rises.

Boosting investment to raise productivity will be a challenge going forward, as investment levels are low compared with peers (Figure 16). The signing of the new US-Mexico-Canada trade agreement (USMCA) has eased some of the uncertainty that has been dampening investment, but uncertainty about ratification remains. Going forward, clear communication on the path and aims of future government policy will reduce uncertainty for investment. Reducing crime, improving the rule of law, and boosting competition (Meehan, 2019_[20]), including by removing remaining barriers to trade and foreign investment, would also strengthen investment (Araújo and Hitschfeld Arriagada, 2019_[2]; Araújo, 2019_[24]).

% 61

Unemployment rate Informality rate, % of workers (RHS) Labour force participation rate, % of population over 15 (RHS)

50

51

52

2014

2015

2016

2017

2018

Figure 14. Unemployment is low but informality remains elevated

Note: Data are quarterly averages based on monthly data.

Source: INEGI.

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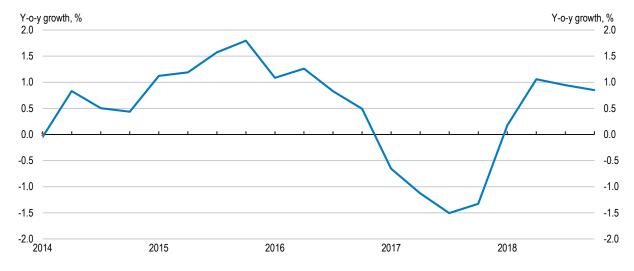


Figure 15. Real wages are recovering

Note: Average daily salary of (formal) workers insured through IMSS.

Source: INEGI.

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The main risks to growth include weaker-than-projected growth of the world economy, especially the United States, and an escalation in protectionism, including non-ratification of the USMCA, which would dent exports and lead to heightened uncertainty hurting investment and GDP growth (Table 2). Emerging market turbulence could lead to capital outflows, asset repricing and higher interest rates, which would increase sovereign debt

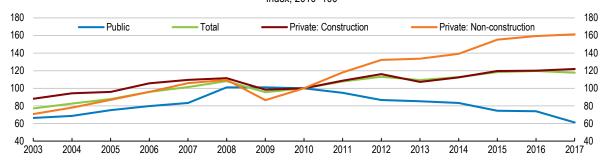
financing costs and deteriorate the fiscal balance. A rise in crime and violence would continue to delay investment. The latter would also put the government's plans to expand tourism activities at risk, which would contribute to broadening growth and reducing regional disparities. A weakening of the business environment would affect investment and growth. Declines in oil production and a deterioration in PEMEX's financial situation would deteriorate the fiscal outlook. Maintaining fiscal discipline in the context of lower growth is also key to preserving stability and confidence.

Table 2. Possible shocks to the Mexican economy

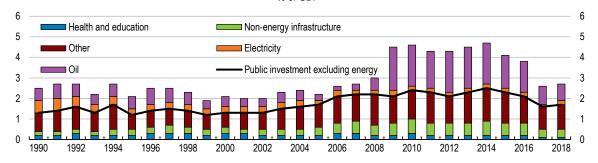
Vulnerability	Possible short-run outcome	Possible policy action
Rising protectionism	Reduction in exports, heighten uncertainty leading to lower investment and GDP growth.	Allow the exchange rate to depreciate. Accelerate reforms to boost productivity growth, the competitiveness of service exports and diversify trade partners.
Lower oil prices and oil production. Deterioration of PEMEX's financial situation.	Reduction in public revenues. Reduced projected profitability of energy sector investments. Improvement in the current account deficit in the event of lower oil prices and worsening in the event of a reduction of oil production.	Continue to reduce dependence on oil fiscal revenues by increasing non-oil tax revenue collection. Maintain fiscal prudence.
Natural disasters	The Mexican territory is exposed to natural disasters such as earthquakes, droughts, cyclones, hurricanes and floods. Such events entail a loss of human lives, and bring down GDP and tax revenue collection.	Strengthen fiscal buffers by adequately funding and appropriately activating the National Fund for Disasters (FONDEN) as well as the Catastrophic Bond Instrument. Adequately fund initiatives to prevent and mitigate natural disasters (FOPREDEN).
An escalation of crime and drug-related violence.	Decline in investment prospects, GDP and citizens' well-being. It would also compromise the government's aim to boost tourism.	Accelerate reforms to fight crime, corruption and strengthen the rule of law.

Figure 16. Investment is low

A. Public and private investment Index, 2010=100



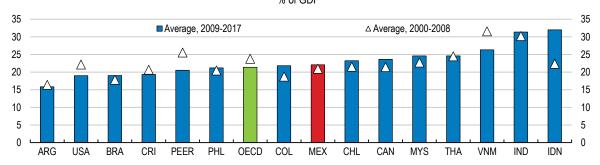
B. Public investment by sector % of GDP



C. Total investment by sector Index, 2010=100



D. Total capital investment % of GDP



Note: PEER refers to the unweighted average of Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey.

Source: INEGI; Dirección General de Estadística de la Hacienda Pública; and World Bank Development Indicators.

Monetary policy remains tight in response to an upsurge in inflation

The strong and independent central bank has kept inflation low and stable, which is associated with lower poverty and inequality rates (Martínez Trigueros, 1998₁₂₅₁; Romer and Romer, 1999_[26]; Easterly and Fischer, 2001_[27]; Alcaraz, 2019_[28]; Alcaraz, 2019_[29]). The central bank made inflation the main target of policy in 1995, and in 2001 adopted an inflation targeting regime. In 2003, the target was established at 3% annual inflation within a variability interval of +/-1 percentage point.

The central bank raised the benchmark interest rate from 5.75% to 8.25% between January 2017 and December 2018 to contain second-round effects of several internal and external price shocks, including the large depreciation of the peso and increases in energy prices, in an economy close to potential growth (Figure 19). Inflation was contained during the first half of 2018, but since June 2018 headline inflation increased again after hikes in energy prices, perishable agricultural goods and services (Figure 17) (Banco de México, 2018_[30]). Headline inflation has declined since December and, at 4.0% annual in March, is now just within the variability interval while core inflation remains stable. Short-term inflation expectations deteriorated in the last quarter of 2018 but have improved since (Figure 18).

Inflation is projected to subside gradually and converge towards the central bank's target in the first half of 2020. However, the balance of risks is tilted to the upside in an environment of high uncertainty, which includes risks such a further depreciation of the domestic currency due to external or internal factors, price pressures in agricultural goods and energy, and tariffs on some goods imports from the United States. Downside risks include a deceleration in economic activity. The authorities should remain vigilant to the evolution of core inflation, expectations and the balance of risks and adjust the policy rate at a level consistent with reaching the inflation target.

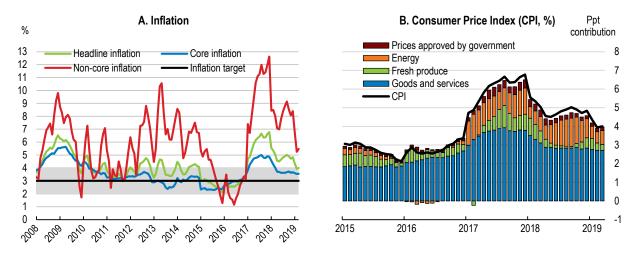
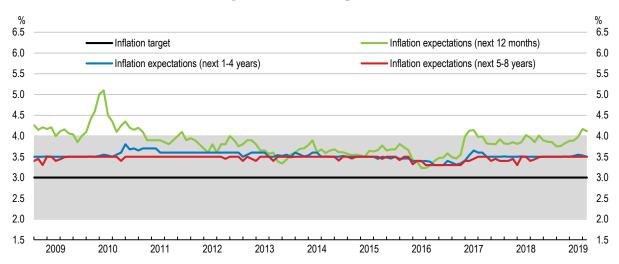


Figure 17. Headline inflation is still above target

Note: The grey area in Panel A represents the inflation target range. Figures in Panel B are calculated using 2010 weights.

Source: Banco de México.

Figure 18. Inflation expectations



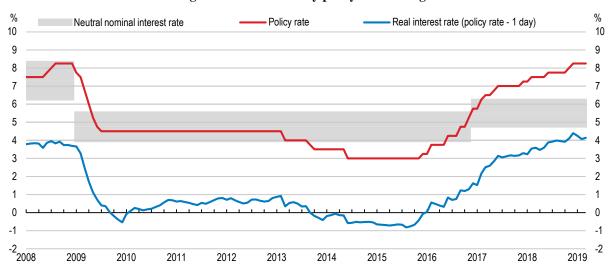
Note: The grey area represents the inflation target range.

Source: Banco de México.

Source: Banco de México.

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Figure 19. The monetary policy stance is tight



Note: The (ex-ante) real interest rate is calculated as the policy rate minus inflation expectations for the next 12 months. The grey area represents the neutral nominal interest rate range.

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The central bank is improving the quality of monetary policy communication

Transparent communication of policy objectives, past policy oversights, inflation outlook and determinants and associated likely responses reduces policy uncertainty and improves the ability of central banks to manage expectations (Blinder et al., $2008_{[31]}$). Integrating more forward-looking communication could also help in guiding market expectations.

During 2018 Banxico implemented several improvements to its communication strategy, in line with the mechanisms followed by other inflation-targeting central banks. The

minutes of the monetary policy decisions now include the identity of voters and the reasons for dissent. Transcripts of the Governing Board meetings are now published three years after each meeting. Also, the press release of monetary policy decisions and the corresponding minutes are now simultaneously published in Spanish and English. Going forward, it should continue to monitor the effects of its enhanced communication strategy.

The financial sector would benefit from more competition and inclusion

According to authorities, the banking sector remains sound and well capitalised (Figure 20). The non-performing loans to total loans ratio is low and financial institutions have the appropriate liquidity and capitalisation to face adverse shocks according to stress tests (including interest rates, exchange rates, inflation and GDP shocks) (Banco de México, 2018_[32]). IMF tests of large non-financial corporations also show that their balance sheets seem resilient to a combination of exchange rate, earnings and interest rate shocks and that spillovers to the banking sector are low (IMF, 2018_[18]).

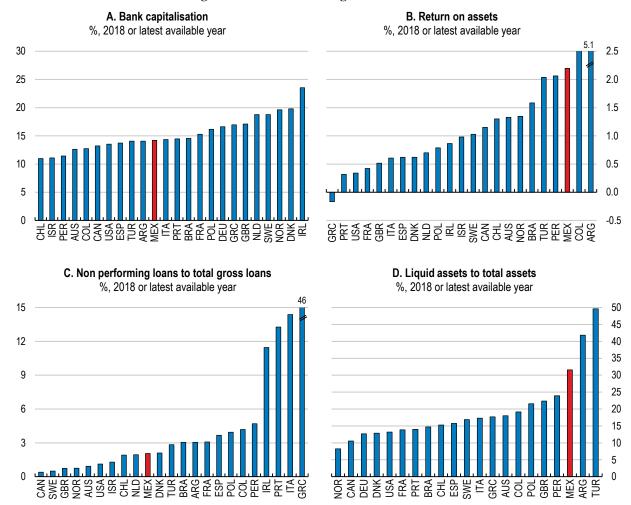


Figure 20. Selected banking sector indicators

Note: Bank capitalisation refers to the capital adequacy, regulatory tier 1 capital to risk-weighted assets. *Source*: IMF Financial Soundness Indicators database.

The main risks to financial stability are the potential impact of a rise in trade protectionism in major economies, high volatility episodes in international financial markets, a deceleration of global economic activity, which could impact the exchange rate and affect balance sheets of non-hedged entities. However, these risks are reduced by regulatory limits on banks' foreign exchange positions, and natural or synthetic hedges, through derivatives operations, by most of the firms receiving funding in foreign currency.

Going forward, authorities could strengthen their crisis management framework by undertaking simulation exercises for systemic crisis events, designing a formal contingency plan for dealing with one, and assessing the effectiveness of coordination and communication among authorities (IMF, 2016_[33]; IMF, 2018_[18]). Assigning the responsibility for identification and mitigation of potential systemic risks would be a step in the right direction. The independence of supervisory authorities, including their budget autonomy and the legal protection of the banking and securities supervisors should also be strengthened.

Making progress in increasing competition and boosting financial inclusion

The main challenges to the Mexican financial sector remain increasing financial depth, inclusion and competition, which would also help to enhance the effectiveness of monetary policy (Gali, Lopez-Salido and Valles, 2004_[34]; Di Bartolomeo and Rossi, 2007_[35]; Bilbiie, 2008_[36]; Colciago, 2011_[37]; Bilbiie and Straub, 2013_[38]). While domestic credit to the private sector has increased (CONAIF, 2018_[39]; Meehan, 2019_[20]), it remains well below what would be expected based on Mexico's level of development (Herman and Klemm, 2017_[40]). Only 35% of adults had a bank account in 2017 (Figure 21a), although the number of municipalities with at least one access point has increased over time in some regions (CONAIF, 2017_[41]). The insurance penetration rate is also low compared with other emerging markets (Figure 21b). The number of bank branches has been stable since 2008 and is unevenly distributed (Figure 22).

Returns on assets, spreads and interest rates are high compared with OECD countries, potentially reflecting weak competition. High financing costs for SMEs hamper investment and productivity growth (Figure 23). Bank concentration is high, even compared with other emerging markets. The three largest banks hold more than 50% of total bank assets, and the (risk-adjusted) spread between lending and deposit rates is high in international comparison (Figure 24). Competition is reduced by high barriers to entry and risk of collusion and low availability and quality of information to consumers (COFECE, 2014_[42]). Stepping-up competition in the financial sector is a priority and the Federal Economic Competition Commission's (COFECE) strategic plan to do so should be implemented without delay (COFECE, 2018_[43]). The 2018 FinTech law will also help promote innovation and competition while protecting consumers and financial stability (OECD, 2018_[44]). However, there are concerns about potential barriers to entry in the initial secondary regulation. Competition considerations should be taken careful account of in the development of the next tranches of secondary regulation, and the FinTech regulatory framework monitored and reviewed going forward (OECD, 2018_[44]).

A. Share of adults holding an account B. Insurance penetration %, 2017 %, 2017 100 14 90 12 80 10 70 60 50 40 30 20 10 HUN ZAF BRA R 몽 THA Ы

Figure 21. Financial inclusion remains low

Note: Insurance penetration is the ratio of direct gross premiums to GDP. Source: World Bank, Global Findex database (2017); OECD Insurance statistics.

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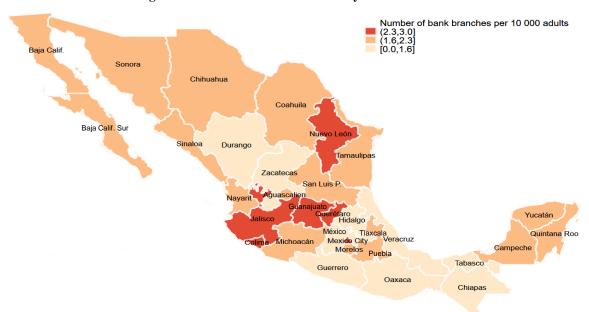


Figure 22. Bank branches are unevenly distributed

Source: Consejo Nacional de Inclusión Financiera, Financial Inclusion database, June 2018.

Figure 23. Mexican SMEs face high borrowing costs

Source: OECD (2018_[45]), Financing SMEs and Entrepreneurs 2018: An OECD Scoreboard.

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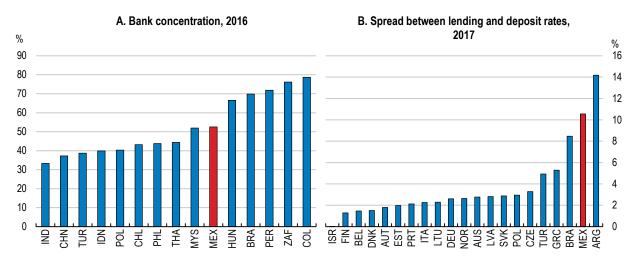


Figure 24. Competition in the banking sector is low

Note: Bank concentration is measured as the assets of the three largest commercial banks as a share of total commercial banking assets.

Source: Bankscope and Orbis Bank Focus, Bureau van Dijk (BvD); IMF, Financial Soundness Indicators database.

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In January 2019 the government announced a package of reforms to deepen the banking sector and stock market and increase financial inclusion. It includes the development of a new smartphone platform to allow phone-to-phone electronic payments at no cost, the possibility to open a bank account for salary payments and associated credits with any bank, granting 15-17 year olds the ability to open their own bank accounts, and a refocus of development banks' activities towards supporting clients in rural zones, marginalised municipalities and semi-urban areas not served by commercial banks. The 2019 Budget

also assigns approximately MXN 6 billion for a credit programme providing interest-free loans to microenterprises. These measures will improve inclusion and raise opportunities for those living in under-served areas. These measures complement other current initiatives, such as the new FinTech regulations. Going forward, the government should explore making all federal transfers to households through bank accounts or by electronic means. This would also reduce the likelihood of fraud or corruption associated with government transfers.

Fiscal policy: Ensuring fiscal space to finance higher social and infrastructure spending

Maintaining fiscal prudence remains a key priority. Public debt soared rapidly after 2012 as the economy slowed and oil revenues declined while spending pressures persisted (Figure 25, Figure 26). A fiscal consolidation plan consisting of a mix of tax reforms (Annex A) and cuts in spending has halted the rise in to the debt-to-GDP ratio. The rigid nature of the budget meant that spending cuts were achieved via cuts to infrastructure investment and social expenditure which can be detrimental to growth and poverty alleviation (Table 3).

The new government's commitment to fiscal prudence is welcome. The 2019 budget aims to achieve a primary surplus of 1% of GDP, which is consistent with a stable debt-to-GDP ratio (Figure 27). The budget, which is underpinned by conservative macroeconomic assumptions, prioritises public investment by reducing financing of inefficient social spending programmes, except for those targeting youth and old-age pensions. However, the slowdown in economic activity in early 2019 may require additional measures to meet the fiscal targets.

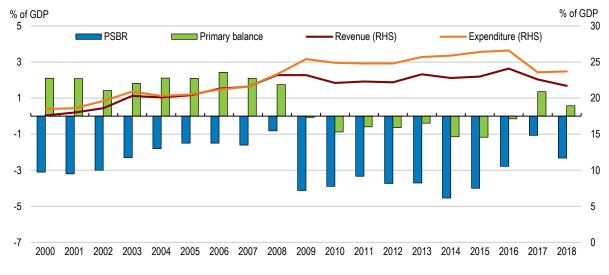


Figure 25. Fiscal performance has improved

Note: The primary balance in 2017 is net of one-offs. PSBR: Public sector borrowing requirement. Source: Secretaría de Hacienda y Crédito Público.

% of GDP % of GDP 140 140 **2018** △ 2013 **2016** 120 120 100 100 80 80 Δ 60 60 40 40 20 20 AUS COL SVK POL NLD CRI MEX DEU FIN FIN ISR SVN HUN Š AC6 ARG 3BR CAN 3RA FRA

Figure 26. Public sector debt has been contained

Note: Gross general government debt includes debt of state-owned enterprises. LAC6 refers to the unweighted average of Argentina, Brazil, Chile, Colombia, Costa Rica and Peru.

Source: IMF, World Economic Outlook October 2018.

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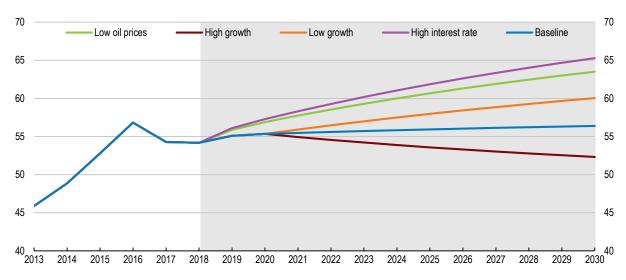
Debt sustainability scenarios suggest a high sensitivity of debt to oil prices in the medium term, and an increase in the risk premium of sovereign debt. These scenarios would increase the debt ratio to above 60% of GDP, a level that is considered high in various studies of vulnerabilities in emerging markets (Fournier and Fall, 2015_[46]). However, Mexico's fiscal rule, which stipulates a non-increasing path for net public debt, would contain this increase. On the other hand, if growth were one percentage point higher, debt would decline to close to 50% (Figure 27). These projections illustrate the need to maintain fiscal prudence.

Recent downgrades of PEMEX's debt by two notches and a change to negative outlook from stable by one rating agency and a change of the outlook from stable to negative by another represent an important negative risk to debt sustainability via increases in debt servicing costs. In particular, it is difficult to reconcile current fiscal austerity with PEMEX's needs for resources to simultaneously increase oil production, rehabilitate the existing six refineries and build a seventh one. Negative developments on the fiscal outlook would in turn constrain the government's objectives to boost needed growth-enhancing infrastructure and education spending and poverty-alleviating social spending.

PEMEX's weak credit ratings increase the cost of external debt financing. The government is considering options to improve the financial health of PEMEX without compromising the fiscal targets.

Figure 27. Current policies are consistent with stable debt

Public debt scenarios, % of GDP



Note: Public debt is general government gross debt. Projections assume an unchanged exchange rate of less but close to 20 MXN per USD and oil prices, consistent with the OECD Economic Outlook Database. The "Baseline" scenario assumes Economic Outlook projections for real GDP growth of 1.6% in 2019, 2.0 in 2020, and 2.5% thereafter and a budget balance of -2.5% GDP. Interest payments on government bonds are set at 3.0% GDP. Oil revenues as a share of GDP stay constant at 2017 values. Scenario 1 (low oil prices) lowers the contribution of oil revenues as a share of GDP by 0.8pp. In Scenario 2 (high growth) potential growth is lifted by 1pp to 3.6%. Scenario 3 (low growth) lowers potential growth to by 1pp to 1.6%. Scenario 4 (high interest rate) increased interest payments as a share of GDP by 0.5pp to 4% GDP.

Source: OECD Secretariat estimates based on data from SHCP (Secretaría de Hacienda y Crédito Público).

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Mexico has a solid fiscal framework, including several buffers to deal with macroeconomic shocks (OECD, 2017_[6]). A fiscal rule foresees saving extraordinary revenues, including those from oil, in stabilisation funds to avoid revenue volatility during the fiscal year. The government intends to strengthen the rule by capitalising and using the stabilisation funds in a more counter-cyclical way. It has also eliminated the practice of underestimating

revenues, which in the past was linked with less transparent discretionary transfers to states under the Ramo 23 budget line. The government will also start implementing IMF recommendations to improve fiscal transparency (IMF, 2018_[47]). Medium-term budgeting, an independent assessment of fiscal policy, validation of compliance with fiscal targets and forecasts could boost confidence. To enhance fiscal transparency and accountability, Mexico could also benefit from a non-

partisan, independent and adequately resourced fiscal council, along the principles defined by the OECD (OECD, 2014_[48]) Authorities acknowledge the importance of having a nonpartisan independent fiscal institution and are considering establishing one along the lines of the US Congressional Budget Office, which produces technical analysis on fiscal issues and provides documentation and methodologies for all their estimations, and whose employees are non-partisan and selected for their expertise and technical capabilities in public finance. The independent fiscal authority could also contribute to improving transparency and fiscal management at the subnational level, as in Spain (OECD, $2017_{[6]}$).

Table 3. The budget is rigid

As a % of GDP

	2011	2012	2013	2014	2015	2016	2017
Largely mandatory							
Financial cost of debt	14.0	14.0	14.3	14.4	14.9	15.1	15.3
Pensions and retirement	1.9	2.0	2.0	2.0	2.2	2.4	2.7
Wage bill	2.7	2.7	2.9	3.0	3.2	3.3	3.4
Participations	5.9	5.9	6.0	5.9	5.9	5.7	5.5
Adefas and others	3.3	3.2	3.3	3.4	3.4	3.6	3.6
Largely inflexible	0.2	0.2	0.1	0.1	0.2	0.1	0.1
General services and others	6.2	6.3	6.2	6.5	6.5	6.1	5.3
Subsidies	4.1	4.2	4.0	4.0	4.1	3.8	3.6
Largely discretionary	2.1	2.1	2.2	2.5	2.4	2.3	1.7
Physical investment	4.9	4.8	5.5	5.2	5.2	6.1	3.3
Financial investment and others	4.5	4.4	4.6	4.8	4.3	3.8	2.8

Note: "Aportaciones" are included in "General services and others" and "subsidies. Participations (participaciones) are automatic revenue-sharing transfer from the federal government to subnational governments. Data for 2017 is provisional. Partial sums may not add up due to rounding.

Source: Criterios Generales de Política Económica 2018, Secretaría de Hacienda y Crédito Público (SHCP).

Table 4. Tax revenues are low

As a % of GDP

	ME	X	OECD	LAC
	2013	2017	2017	2017
Non-renewable resource revenue	8.0	5.0	-	2.1
Other revenue	15.6	19.8	-	23.9
Total tax revenue	13.3	16.2	34.2	22.4
Personal income tax	2.6	3.5	8.2	2.1
Corporate income tax	2.4	3.5	2.9	3.7
SSCs	2.2	2.1	9.2	3.4
Property taxes	0.3	0.0	1.9	1.0
VAT	3.4	3.7	6.8	6.6

Note: LAC equals unweighted average of Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Jamaica, Peru, Dominican Republic, and Trinidad and Tobago. LAC average for personal and corporate income tax excludes Ecuador.

Source: OECD Global Tax Revenue Database; ECLAC; and IMF World Economic Outlook, October 2018.

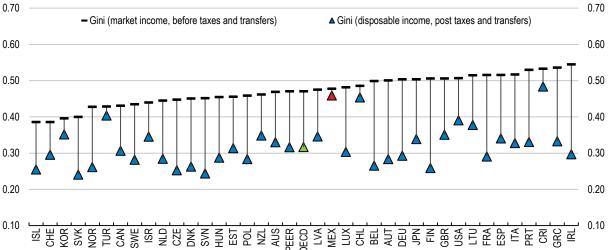
Moving towards a growth- and equity-friendly tax mix

The tax system collects relatively little compared with the OECD and LAC averages (Table 4), limiting resources available to finance pro-growth education and infrastructure spending, and extend and raise the quality of healthcare provision (a priority of the new government). A key challenge is to raise tax revenues and reduce reliance on oil-related taxes. The 2014 tax reform broadened tax bases by reducing a number of exemptions, and introduced a new tax bracket for upper incomes in the personal income tax (PIT), among other reforms (Annex A). However, it did little more than compensating for the decline in oil-related revenues (Table 4).

The tax system could also be more progressive. Although the 2014 tax reforms improved the redistributive impact of the tax and transfer system somewhat, it remains among the lowest in the OECD (Figure 28). Tax reform could also reduce the high rates of informality

(Chapter 1). Overall, Mexico would benefit from an in-depth review of its tax system that would take all these objectives into account. The government acknowledges these challenges and is working on strategies to address them. In the near term this involves improving the tax administration and reducing regulatory loopholes which facilitate tax evasion and avoidance. In the second half of the Executive's term, the government intends to undertake a comprehensive tax reform aimed at increasing the progressivity of tax policy, enhancing tax revenue and reducing price distortions.

Figure 28. The tax and transfer system does little to reduce income inequality



Note: Data are for 2017 or latest available year. PEER refers to the unweighted average of Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. The Gini coefficient for market income refers to income before taxes and transfers; however, data for Greece, Hungary, Mexico and Turkey refer to income after taxes and before transfers.

Source: OECD Income Distribution and Poverty Database.

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Corporate Income Tax (CIT)

At 30%, the statutory corporate tax rate is high by international standards and well above the OECD average of 24%. However, effective tax rates are lower due to accelerated depreciation on investments in buildings and machinery, and below the median in a sample of OECD and G20 economies (Hanappi, 2018_[49]; OECD, 2018_[50]). Exemptions are still high, accounting for lost revenue of 0.9% of GDP. They cover tax reductions or special regimes for specific sectors such as the agroindustry or SMEs under the *Régimen de Incorporación Fiscal* (RIF), designed to stimulate formalisation. International experience shows that these sector- and size-contingent policies tend to hamper resource reallocation and firm growth.

In January 2019, the government introduced measures to stimulate economic activity along the US border: eligible taxpayers can apply for a refund that lowers their CIT rate to 20% and VAT rate from 16% to 8%. Foregone tax revenues are estimated at 0.2% of GDP, while the impact on stimulating productivity and growth is unclear. Although the authorities have enacted a number of measures to prevent tax planning, recent experiences with tax differentials in Mexico show that foregone revenue from tax arbitrage was substantial. Although this is intended to be only a temporary measure lasting two years, authorities should monitor the evolution of revenues, assess the extent of tax avoidance (e.g., by

measuring the extent to which transactions are channelled through the border region) and analyse the impact of these measures on boosting economic activity.

Personal Income Tax (PIT)

Reforming the current PIT system could raise revenue and lower disposable income inequality. The income threshold for the top PIT rate is high and could be lowered (Figure 29). At the same time, the bottom statutory rate is low and could be raised. However, these changes should be done along with a comprehensive assessment of the drivers of high and persistent informality and the role of tax policy in driving resource misallocation.

Generous tax allowances and exemptions substantially narrow the PIT base and are regressive. They include medical expenses (0.04% of GDP); complementary contributions for certain retirement accounts, payments of insurance premiums of pension plans and for the acquisition of shares in societies below MXN 152 000 annually (0.06% of GDP); education expenditures (0.013% of GDP) and real interest expenditure of mortgage loans. They could be eliminated or scaled back, or converted into tax credits.

Value-added Tax (VAT)

The standard VAT rate in Mexico is 16%, slightly above the average in Latin America (15.4%) but lower than the OECD average of 19.3%. However, the revenue from VAT compared to its theoretical revenue (the VAT Revenue Ratio) is the lowest among OECD countries due to a narrow VAT base - only around 40% of domestic consumption is subject to the standard rate – as well as low compliance and fraud (Figure 30).

Shifting the tax mix towards taxes on consumption and property would be more growth friendly (Akgun, Bartolini and Cournède, 2017_[51]). A shift towards taxes on less mobile tax bases can also make the system more resilient and less vulnerable to globalisation (O'Reilly, 2018_[52]). Mexico should consider cutting back exemptions and limiting the number of reduced VAT rates, while compensating the poor through targeted subsidies. Applying the standard rate to a wider range of products would help fight informality and tax evasion. Evidence shows that misreporting to the tax administration (SAT) is particularly high when there are VAT exemptions, which also reduces CIT collection (Ahmad, Best and Pöschl, 2012_[53]). The government has taken important steps to raise compliance by suppressing universal compensation in VAT, which allowed taxpayers to automatically compensate other tax credits against VAT (OECD, 2018_[50]).

Tax administration

Further strengthening the tax administration with adequate staffing and funding would also raise revenues (Figure 31). This would allow for an increase in the number of audits (IMF, 2018_[47]). Adopting a Compliance Improvement Plan for VAT and other taxes is another important step towards reducing tax evasion. The Plan should include, *interalia*, better audit coordination and data sharing between tax administrations. In particular, the income tax and social security administrations should be linked as part of the plan to fight tax evasion, as firms tend to understate labour costs to the social security system (IMSS) and overstate to the tax administration (SAT) (OECD, 2017_[6]). The government acknowledges the merits of this recommendation and has already started cross-checking the information on social security and income tax.

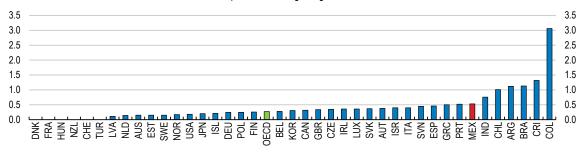
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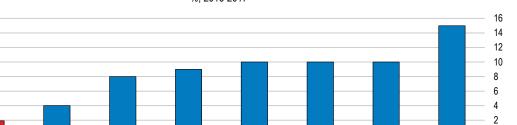
Figure 29. There is room to increase revenues and the progressivity of PIT

A. Income threshold where single taxpayers start paying PIT

As a multiple of the average wage, 2017



B. Bottom statutory PIT rate per country %, 2016-2017

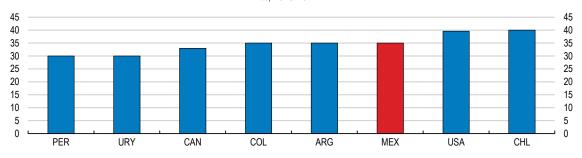


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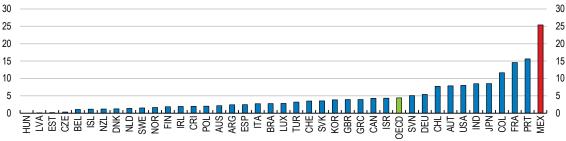
USA

C. Top statutory PIT rate per country %, 2016-2017

PER



D. Income threshold where single taxpayers start paying the top statutory PIT As a multiple of the average wage, 2017



Note: PIT stands for personal income tax. Panel A: for Denmark, France, Hungary, New Zealand, Switzerland and Turkey, PIT is levied on the first earned currency unit. For India, the average worker income is for the organised manufacturing sector as reported in the Annual Survey of Industries. OECD refers to an unweighted

Source: OECD calculations based on the Taxing Wages models; OECD Taxing Wages in Latin America and the Caribbean (OECD/IDB/CIAT, 2016[54]), OECD Taxing Wages (OECD, 2018[55]), OECD Tax database.

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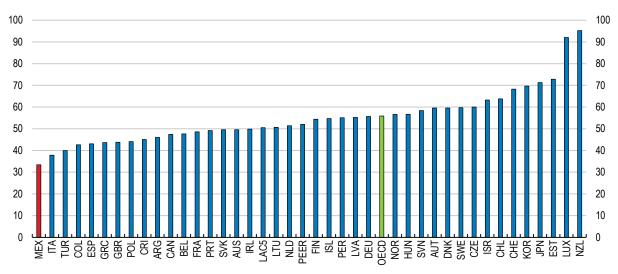
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Figure 30. The VAT revenue ratio is the lowest among OECD countries

As a % of potential VAT revenues, 2016 or latest available year



Note: A VAT Revenue Ratio of 100% suggests no loss of VAT revenue due to exemptions, reduced rates, fraud, evasion or tax planning. The OECD aggregate is an unweighted average of data shown (excluding Latvia) and data for Canada cover federal VAT only. LAC5 refers to the simple average of Argentina, Chile, Colombia, Costa Rica, and Peru. PEER refers to the simple average of Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia, and Turkey.

Source: OECD Consumption Tax Trends; OECD Revenue Statistics in Latin America and the Caribbean.

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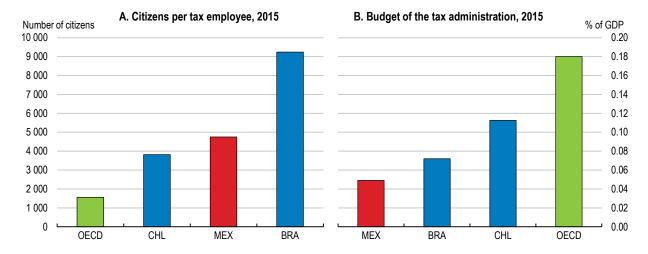


Figure 31. The tax administration needs to be strengthened

Source: OECD Consumption Tax Trends; OECD Revenue Statistics in Latin America and the Caribbean.

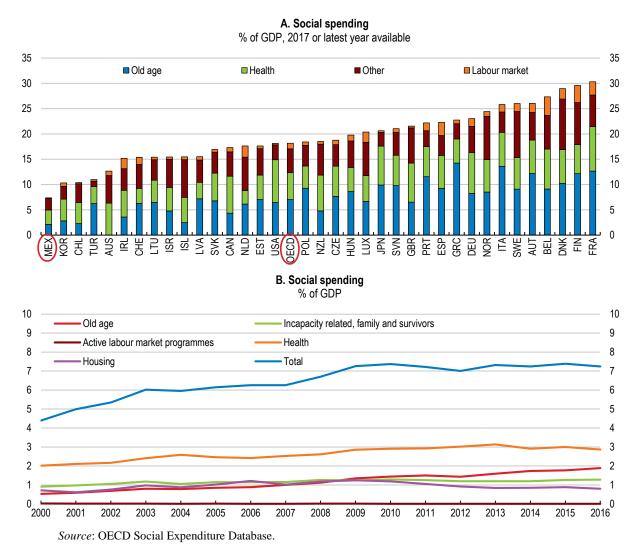
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Improving the quality of social spending

Social spending is still comparatively low, despite significant progress in past decades (Figure 32). Mexico spent roughly three times more on social programmes in 2016 than in

1988. However, much remains to be done to reduce existing inefficiencies and raise the quality of social services.

Figure 32. Social spending has increased but remains low



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Mexico's main social programmes for the poor are large both in coverage and expenditure. PROSPERA, the primary anti-poverty programme, covered almost 6.8 million families in 2016 or 23% of Mexico's population. The Pensión para Adultos Mayores (PAM) programme, providing social pensions for individuals aged 65 and above benefited 5.4 million people in 2017 (60% of the population aged 65 and above). These and other innovative programmes like Programa de Estancias Infantiles para Apoyar a Madres Trabajadoras (day-care centres, PEI) have helped reduce extreme poverty, while increasing school attendance, extending health care to poor families and fighting malnutrition. The 2019 budget increased social spending from 0.6% of GDP in 2018 to 1% of GDP, although the composition changed markedly, with an almost 14% reduction in PROSPERA, a 17% increase in youth programmes and a doubling of PAM.

Social spending is fragmented into more than 5 000 programmes at the federal, state and municipal levels, which greatly reduces the efficiency of spending and thereby poverty alleviation (CONEVAL, 2016_[56]). A few programmes were eliminated or scaled down in January 2019 based on the National Council for the Evaluation of Social Development Policy's (CONEVAL) evaluations. It is important to ensure good evaluation of the programmes and that needy beneficiaries are not excluded from support. This includes an evaluation of recent changes in spending across programmes, as the impact on coverage, targeting and poverty alleviation is not known.

To improve targeting of social programmes, the authorities conducted a social census covering all households to identify those in poverty and special needs. This census is also being used to clean the existent beneficiary database by cross-checking information with data in the *Sistema de Información Social Integral* (SISI) a platform assembling data from social programmes at all levels of government. Making more use of the linking of both data sources would allow the detection of overlaps and duplications across programmes, as well as material deprivation at the household level, and the linked data should be used in this way. The complementary use of both databases will also facilitate the identification of poor households that currently do not receive their social benefits entitlements, either because they have not been identified nor their needs, or because their transfers have been misdirected (around 52% of those individuals living below the poverty line prior to government transfers in urban areas and 40% in rural areas) (OECD, 2019_[57]).

Another way to reduce exclusion errors is to lower conditionality which is being undertaken by replacing PROSPERA with other programmes involving less conditionality. Recent research shows that conditionality, although useful in some circumstances, might not always be needed and it could result in adverse effects on participation in the programmes for the poorest individuals (OECD, 2019_[57]). Blockchain and other technologies could assist in the creation of secure digital identities for citizens, thereby helping ensuring that social transfers reach the right beneficiaries (Aranda, 2019_[58]).

While disability subsidies have increased, the 2019 budget reduces social spending for other vulnerable groups such as poorer children and informal working mothers, via cuts to PEI which affected funding for childcare centres. Although the aim to remove segmentation in the provision of early childhood education and care (ECEC) according to the labour market status of parents is welcome to improve quality and equity, it is not clear that all children in the programme currently have access to care. This will also affect incentives for women to enter and stay in the labour market, albeit informal.

Mexico should also consider establishing a public system of unemployment benefits so that displaced workers can afford a lengthier search for a suitable job. Developing active labour market programmes focused on re-training and upskilling could also help informal workers, who receive on average much less training than formal workers, to move into formal jobs.

At 5.8% of GDP, Mexico allocates a relatively low share of its national resources to health, compared with the OECD average of 9% though it is similar to countries with comparable GDP levels (OECD, 2018_[59]). Spending remains concentrated in the richest states, resulting in disparities in care quality and access. Investment in rural areas needs to be accelerated, including by increasing the overstretched workforce (OECD, 2018_[59]).

Another element resulting in the unequal access to healthcare is the multiplicity of insurance schemes, each with its own provider network, funding and administrative structures. Three main subsystems exist, according to labour market status: private-sector formal workers, public-sector formal workers and *Seguro Popular*. The latter was

introduced in 2003 and designed to universalise health insurance by extending coverage to the over 50 million Mexicans not covered by any scheme, including informal workers. In addition, some government agencies and state-owned enterprises operate their own schemes. Affiliates are typically limited to in-network facilities, resulting in duplications and inefficiencies in the use of public resources.

The lack of coordination leads to high administrative costs of almost 10% of total health spending, the highest in the OECD (OECD, 2016_[60]). Aligning these costs with the OECD average of 3% would generate savings of at least 0.15% of GDP (World Bank, 2016_[61]) (Table 5). This practice, along with non-portability, disrupts the continuity of care dampening health outcomes (OECD, 2016_[60]). To reduce inefficiencies, improve health outcomes and equity, Mexico should reduce existing fragmentation and increase portability of health insurance by allowing the maintenance of insurance affiliation after changes in employment (OECD, 2018_[59]). The government acknowledges the need to move to a universal health care system and is taking steps in this direction. It is currently merging the operations of Seguro Popular and formal workers' healthcare. Later, this merge will be extended to all federal health provision.

Table 5. Illustrative fiscal impact of some OECD recommendations

Measure	Change in fiscal balance (percentage points of GDP)	
Rebalancing the tax mix		
Reduce exemptions in CIT	Up to 0.52	
Reduce exemptions in PIT	Up to 0.97	
Broaden the VAT tax base	Up to 1.36	
Raise property taxes to the LAC average (0.6%)	0.30	
Reduce exemptions and subsidies in the state tax on motor vehicles (tenencia)	0.05	
Raise the efficiency of state payroll tax collection (nómina)	0.15-0.20	
Potential increase in fiscal revenues of implementing all tax recommendations	3.4	
Social spending		
Reduce administrative and insurance costs in the health sector from 9% of total current expenditures to the OECD average of 3%	-0.15	
Eliminate beneficiary overlaps across the different health insurance schemes	-0.15	
Eliminate leakages in social assistance programmes benefiting the top 40% of the income distribution	-0.10	
Potential reduction in spending of implementing all social spending recommendations	0.4	
Potential fiscal impact of implementing all recommendations	3.8	

Source: World Bank (2016_[61]) and Secretaría de Hacienda y Crédito Público (SHCP, 2018_[62]).

The poverty rate among people over 65 is very high, at more than 30%. The pension system is fragmented and multiple pension systems cover private sector employees, different categories of public sector employees at different government levels, SOEs, public universities and military personnel. There is no coordination across the various plans nor across the federal and local levels, even for non-contributory schemes.

Two main schemes cover the majority of formal workers. Reforms in 1997 for private sector workers (IMSS) and 2007 for public sector workers (ISSSTE) replaced the definedbenefits (DB) PAYGO system by a defined-contribution regime (DC) with individual retirement accounts. These reforms have improved the capacity to finance pensions but important challenges remain. First, the reform allowed transitional workers in the private sector to choose whether to move into the DC regime or stay in the PAYGO, which will place pressure on the budget by mid-2030. Second, low contributions to the mandatory pension system in both schemes do not guarantee pension benefits of more than 50% of final salary. A contribution rate of 6.5% (the average in IMSS) in the DC scheme may lead to, in the best case scenario, a replacement rate of only 26% for a full career average earner, the second lowest replacement rate among OECD countries (OECD, 2017_[63]).

Recent legislation, which ensures all remaining funds in the housing account (INFONAVIT) at the point of retirement are transferred to the pension system and annuitised, rather than being taken as a lump-sum, will help increase future pensions. However, as the housing account can be withdrawn during working life, there will be considerable variation in its future value. Another issue is that high rates of transition into and out of informality lead to low density of contributions, and many workers will not have contributed the minimum amount to be entitled a pension (1 300 and 1 250 weeks in the public and private sectors, respectively).

To contain liabilities associated with transition workers in the PAYGO system, a pro-rated mechanism could be implemented, preserving acquired rights and transitioning to the new DC system at a predefined date as recommended by the OECD (OECD, 2016_[64]). Another option is putting a ceiling on top DB pensions. Contributions to the DC system should gradually increase to improve pension adequacy and provide room to shorten the required contribution period to qualify for a pension, thereby raising incentives for job formalisation.

Improving the old-age safety net is also a priority. The new government aims to move in the direction of a universal pension and, in January 2019, raised the eligibility age to 68 years old for the non-indigenous population and doubled the minimum old-age income support PAM to slightly above the extreme poverty line in rural areas, but below the value for urban areas (CONEVAL, 2018_[65]). This is in line with OECD recommendations (Table 6) (OECD, 2017_[6]). In spite of the large increase, it is insufficient to lift old-age people above the poverty income line, which is about double the minimum pension in both areas.

Strengthening fiscal federalism

Fiscal decentralisation reforms in the latter half of the 1990s and beginning of 2000s increased the spending role of the states in education and health for which the national government provides transfers. Subnational governments are responsible for 52% of total public expenditure and 80% of total public investment. States account for the bulk of subnational investment, around 57%. This policy aimed at fiscal equalisation across states. Resources are gathered at the federal level and then distributed to states and municipal governments to implement a similar level of local public goods. Yet, this system has neither promoted regional convergence nor reduced inequality (Diaz-Cayeros, 2016_[66]). The fiscal imbalance - i.e., the difference between own resources and spending responsibilities – is large, compared with both the OECD and LAC, reducing the incentives for states and municipalities to provide good quality services in an efficient way. This is because as states and municipal governments do not participate in tax collection they are not held fully responsible for policy outcomes.

This arrangement reduces local incentives to provide services and collect taxes in a more efficient way, and is burdened by overlapping competences, which further reduces accountability and creates room for free riding by local governments. For instance, the federal government is responsible for financing the construction of schools and local streets, while their maintenance is the responsibility of municipalities. As a result, infrastructure does not always reflect the needs of local communities and tends to quickly

deteriorate for lack of maintenance, due to low local tax collection and accountability $(OECD, 2018_{[67]}).$

Experience in other OECD countries shows that revenue decentralisation reduces regional disparities (Bartolini, Stossberg and Blöchliger, 2016_[68]). Mexico should revise the Ley de Coordinación Fiscal (LCF) to give more fiscal independence to state governments, and reform the intergovernmental transfer system to address possible fiscal imbalances across states. There is also scope to increase transparency of subnational transfers, including on their use and outcomes. These reforms would increase the quality of service provision, contribute to regional development, and strengthen the sustainability of state and municipality finances, in line with the objectives of the Federal Discipline Law for States and Municipalities.

Increasing fiscal responsibilities of the state governments would improve their incentive to use available resources in a more efficient way to address income inequality and poverty. At the same time, the intergovernmental transfer system should target states that fall below a certain level of fiscal capacity, while not fully compensating for the fiscal difference to provide an incentive to the subnational government to catch-up with the other states. Increasing the retention of tax revenues generated by economic activities at the state and municipality level would also serve as an incentive to improve local business conditions which are strikingly different across Mexico (Chapter 1).

Increased tax autonomy would provide an incentive for subnational governments to exploit their own revenue-collection potential and strengthen their administrative capacities (OECD, 2015_[69]). Revenues from property taxes amount to only 0.3% of GDP against the OECD average of 1.9%. However, Mexico lacks a comprehensive nation-wide property register with updated market valuations. Building one is a priority and it should connect state-level property registers as such information is not currently being shared across states and municipalities (OECD, 2018_[50]). Blockchain could help improve land and property registers in a cost effective way (Aranda, 2019_[58]).

More revenue could also be raised from the state tax on the use or ownership of motor vehicles (tenencia), which would also improve the redistributive power of the tax system. A number of states apply exemptions or subsidies that erode the tax base by about 0.05% of GDP (World Bank, 2016[61]).

State-level payroll tax collection, which varies between 0.5% and 3% across states, could be raised by improving efficiency, without increasing the tax rate. This tax impacts on labour costs, and could therefore deter labour supply, job creation and formalisation. However, tax collection efficiency varies greatly between states and is related to limited technical capacity, incomplete information and outdated payment methods. Information sharing between tax administrations and linking of databases would help to detect tax evasion. With this aim, some states have already signed information exchange agreements with IMSS to compare data on formal workers.

The use of modern information technologies and best practices in tax collection and the delivery of public services is hampered by weak and uneven capacities of the civil service at the state and municipal levels. The principles of the professional career service could be included in local administrations' public employment regulations (Servicio Profesional de Carrera) and encourage the development of merit-based human resources policies.

Table 6. Past OECD recommendations on fiscal policy

Past recommendations	Actions taken since the 2017 survey	
Co-ordinate the collection of income taxes and social security contributions.	No actions taken.	
Make greater use of property taxes.	No actions taken.	
Further broaden income tax bases and remove inefficient tax expenditures.	As of 2019 the corporate income tax has been reduced from 30% to 20% in 43 municipalities along the border with the US.	
Strengthen social expenditure on programmes to eradicate extreme poverty such as <i>Prospera</i> .	The 2019 budget has increased the share of social spending. A new social census allows for better targeting.	
Simplify administrative procedures for accessing cash transfers.	The conditionality of social transfers has been reduced.	
Raise and broaden the minimum pension to expand the old-age safety net.	In January 2019 the government doubled the minimum monthly PAM pension to MXN 1275 and introduced universal eligibility. Indigenous elderlies living in native communities qualify at 65 years old, instead of the standard 68 years old.	

Strengthening institutional quality and the rule of law

The quality of Mexico's institutions is low

Institutions are a major determinant of economic performance (Chang, 2006₁₇₀₁; Acemoglu and Robinson, 2008_[71]). Improving the rule of law would have a large growth payoff in Mexico (Box 3). Improving institutional quality will also bring more fairness, and increased opportunities, especially for the poor and underprivileged, who bear disproportionally the consequences of crime and corruption.

There are several channels through which institutions influence economic outcomes. Weak rule of law can increase the costs and uncertainty of contract enforcement (OECD/IMCO, 2013_[72]). High levels of corruption and crime can lower investment levels, including foreign investment (Daude and Stein, 2007_[73]; Javorcik and Wei, 2009_[74]; Kurul and Yalta, 2017_[75]). Institutional quality also has important implications for the allocation of resources. Firms in Mexican states with more effective legal systems are substantially larger and more productive (Dougherty, 2014_[76]; Gann, 2016_[77]). Moreover, corruption can divert entrepreneurial efforts from productive value-creating activities to unproductive and destructive activities (Baumol, 1990_[78]; Sobel, 2008_[79]; Wasilczuk and Stankiewicz, 2017_[80]) and hampers the efficient and effective allocation of government resources (Shleifer and Vishny, 1993_[81]; Liu, Moldogaziev and Mikesell, 2017_[82]). There is also evidence that high crime rates in Mexico have led to reduced economic diversification, higher sector concentration and lower economic complexity (Ríos, 2017_[83]). By increasing tax evasion, limiting equitable access to public service and perpetuating the unequal distribution of wealth, corruption also contributes to inequality (Gupta, Davoodi and Alonso-Terme, 1998_[84]; OECD, 2017_[85]).

Mexico's institutions compare poorly against not only other OECD and Latin American countries, but also against dynamic Asian economies (Figure 33). Symptomatic of weak institutions, perceived corruption is the highest in the OECD (Figure 33d) and the homicide rate is higher than all OECD countries (Figure 35a). Moreover, Mexico's performance has stagnated over time. For example, the perception of corruption index was slightly worse in 2017 than in 2000 (Figure 34) and the number of murders has risen sharply in the last decade (Figure 35b). The vast majority of crimes also go unrecorded (93.2% in 2017), and only 11% of reported cases result in an investigation sent to the court system, and less than 4% result in a conviction and sentence (Le Clercq and Rodríguez Sánchez Lara, 2016_[86]).

Moreover, differences in crime and impunity rates across regions are significant (Le Clercq and Rodríguez Sánchez Lara, 2016[86]) (Figure 9).

Somewhat more positively, Mexico scores well among Latin American countries on the World Bank's Ease of Doing Business Indicator. However, it ranks the second lowest in the OECD (Figure 36).

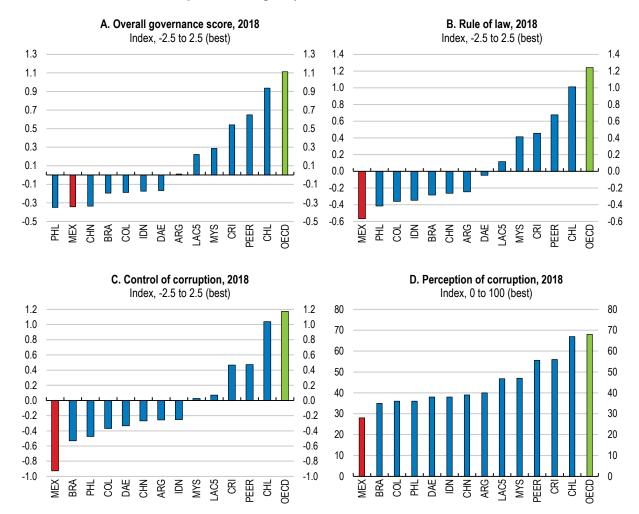


Figure 33. The quality of Mexico's institutions is low

Note: Panel B: Simple average of the six World Governance sub-indicators: control of corruption, government effectiveness, political stability and absence of violence/terrorism, regulatory quality, rule of law, and voice and accountability. Panel B: Rule of Law captures perceptions of the extent to which agents have confidence in and abide by the rules of society, and in particular the quality of contract enforcement, property rights, the police, and the courts, as well as the likelihood of crime and violence. Panel C: Control of corruption captures perceptions of the extent to which public power is exercised for private gain, including both petty and grand forms of corruption, as well as "capture" of the state by elites and private interests. PEER is a simple average of the 10 non-Latin American OECD members with the lowest GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. LAC5 is a simple average of Argentina, Brazil, Chile, Colombia and Costa Rica. DAE is a simple average of People's Republic of China, Indonesia, Malaysia, Philippines, Thailand and Viet Nam.

Source: World Bank World Governance Indicators; Transparency International Corruptions Perception Index.

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Index, 0 to 100 Index, 0 to 100 MEX OFCD PEER -LAC5 DAE 70 60 60 50 40 40 30 20 20 10 ____ 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2014 2015

Figure 34. Perceived corruption continues to be a substantial problem

Note: PEER is a simple average of the 10 non-Latin American OECD members with the lowest GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. LAC5 is a simple average of Argentina, Brazil, Chile, Colombia and Costa Rica. DAE is a simple average of the People's Republic of China, Indonesia, Malaysia, Philippines, Thailand and Viet Nam.

Source: Transparency International Corruptions Perception Index.

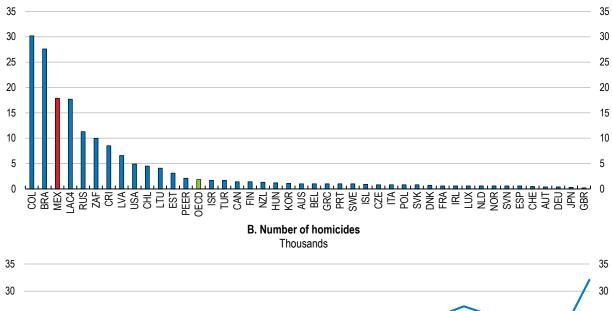
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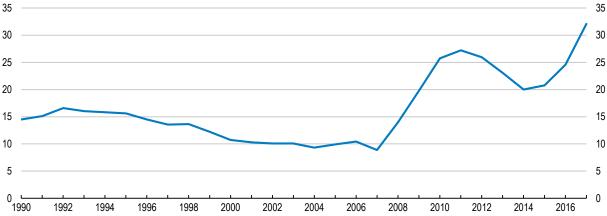
These institutional issues are pervasive, occurring in general terms (for example, in the effectiveness of the judiciary), but also in multiple specific sectors. Infrastructure offers a specific example. While Mexico's National Infrastructure Plan provides an integrated intersectoral plan, it is limited to a six-year time horizon which matches the presidential electoral cycle. A long-term planning framework supported by a robust institutional architecture to improve project selection, planning and implementation and provide greater certainty and reduced political risk would help in addressing Mexico's extensive infrastructure needs by providing value-for-money and encouraging long-term financing (Meehan, 2019_[87]). While this is difficult to achieve in practice, internationally, the establishment of an independent statutory body, as has been done in the UK and Australia, is seen as a promising way forward to anchor spending to a long-term funding commitment that is independent of the election cycle and, ultimately, to increase spending efficiency (ITF, 2017[88]).

Figure 35. The high levels of crime and violence continue to grow

A. Age-standardised homicide rate per 100 000 people

2014 or latest available year





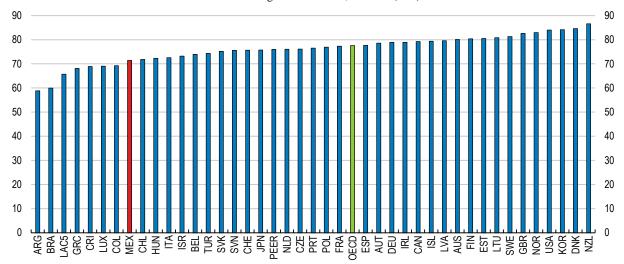
Note: Panel A: OECD is a population-weighted average of member countries. PEER is a weighted average of the 10 non-Latin American OECD members with the lowest GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. LAC4 is an unweighted average of Brazil, Chile, Colombia and Costa Rica.

Source: OECD Better Life Index, November 2017 update; INEGI.

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Figure 36. Mexico is behind most other OECD countries on the ease of doing business

Ease of doing business score, 0 to 100 (best)

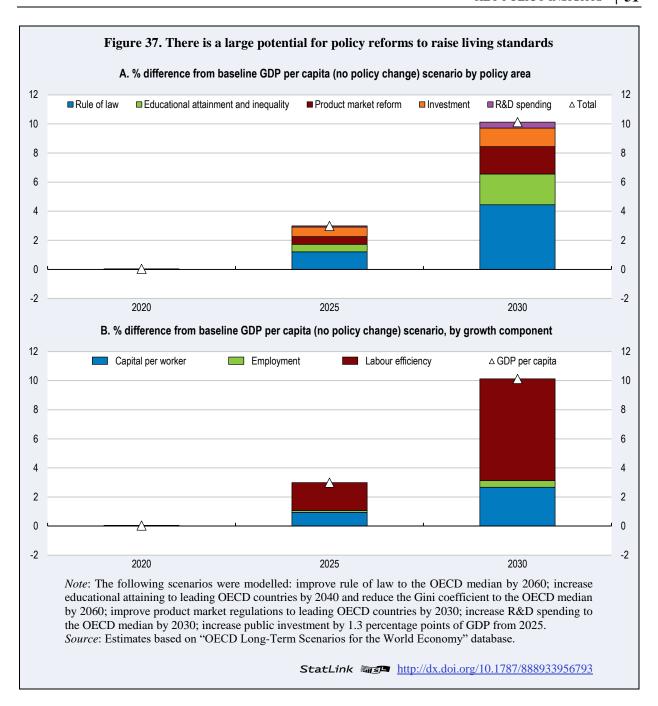


Note: PEER is a simple average of the 10 non-Latin American OECD members with the lowest GDP per capita: Estonia, Greece, Hungary, Latvia, Lithuania, Poland, Portugal, Slovak Republic, Slovenia and Turkey. LAC5 is a simple average of Argentina, Brazil, Chile, Colombia and Costa Rica. *Source*: World Bank Ease of Doing Business Indicator, 2019.

StatLink http://dx.doi.org/10.1787/888933956774

Box 3. Quantification of the impact of structural reforms

The OECD long-term model comparing projections based on different policy scenarios with the baseline "no policy change" scenario (Guillemette and Turner, 2018_[89]) suggests that improving institutional quality would significantly boost GDP per capita levels given Mexico's quality of institutions, which is the lowest in the OECD, and that better governance has a large impact on productivity (Guillemette and Turner, 2018_[89]) (Figure 37). Although policy complementarities are not explicitly modelled, better governance could also have important flow-on effects, as quality institutions create positive incentives for business investment, technology adoption and human capital accumulation, and can have a large impact on the successful implementation of other enabling policies, such as product market reforms (Ríos, 2018_[90]). A more detailed discussion of the quantification of structural reforms is provided in Annex B.



The resourcing of key independent institutions has been significantly decreased

The 2019 budget presented a reduction in expenditures for all government ministries and public entities aimed at increasing spending efficiency and reallocating resources to social programmes and infrastructure investment. This austerity measure implied a reduction in the amount of spending allocated to autonomous entities, many of which have roles central to anticorruption and integrity priorities. This includes the judicial branch, the National Electoral Institute, the National Institute of Statistics and the National Institute of Transparency. This reallocation also implied significant budget reductions for the competition authorities and sector regulators. Moreover, some of the ministries and other entities that have a key role in public sector integrity also face reduced budgets, such as the Ministry of Public Administration and the Federal Tribunal of Administrative Justice.

Much of the savings are expected to come from decreases in remuneration. In particular, a law has been approved that would mean that no public sector employee can be paid more than the President, whose salary has recently been lowered by about 40% to MXN 108 000 a month (about USD 5612). This law implies a reduction in the salaries of high-level officials and a compression of the salary distribution. This raises concerns about whether the autonomous entities are sufficiently resourced to attract and retain skilled staff and deliver on their mandates. Moreover, lower public sector wages may make the fight against corruption more difficult. While it is important to strive for greater spending efficiency, it is also crucial to ensure that ministries and autonomous entities that are relevant to institutional quality have adequate resources and support to be able to attract and retain highly skilled staff and maintain strong autonomy to carry out their functions effectively. As a specific example, competition is weak in Mexico but positive reforms have been made in recent years to strengthen competition policy and, in particular, the institutional framework for the enforcement of competition law via the creation of two independent competition authorities and specialist courts (Meehan, 2019_[20]). Ensuring the independence and adequate resourcing of these entities will be crucial for continued strengthening of competition.

Mexico's high level of impunity highlights issues with the security and justice systems

Mexico's high level of impunity highlights weaknesses in the judicial system that contribute to high rates of crime. International experience demonstrates the importance of an impartial and efficient justice system in fighting a culture of corruption (Rothstein and Teorell, $2015_{[91]}$; Quah, $2017_{[92]}$). A conservative estimate is that direct crime-related costs in Mexico amounted to 1.9% of GDP in 2014 (Jaitman and Torre, $2017_{[93]}$). As a specific example, in 2018, 58.2 million barrels of oil were lost to fuel theft along the oil supply chain on average per day costing MXN 66.3 billion (about 0.3% of GDP). A broader measure of the impact of violence in Mexico that also takes account of indirect costs gives a much higher estimate of 21% of GDP in 2017 (Institute for Economics & Peace, $2018_{[94]}$). Moreover, the costs of crime tend to impose a greater burden on poorer households (Ajzenman, Galiani and Seira, $2015_{[95]}$).

An evidence-based approach to security with greater accountability is needed

The rising rates of violent crime are therefore concerning, particularly as this has occurred despite a general trend of rising security spending (World Bank, 2016_[61]). This highlights the need for evidence-based reforms to effectively and efficiently tackle crime (OECD/IMCO, 2013_[72]). While data collection on crimes and victimisation have improved, data gaps remain. Moreover, these data still need to be transformed into actionable evidence on which to base sound polices and reforms (OECD/IMCO, 2013_[72]). Also, the institutional oversight and accountability to incentivise the use of evidence needs to be strengthened and evidence dissemination and stakeholder involvement improved (OECD/IMCO, 2013_[72]).

The required periodic reports published by the Ministry of the Interior is an example of a positive initiative to improve available evidence. The latest report (SEGOB, 2018_[96]) highlights that there are less than half the number of police required due to a combination of staff shortages and existing staff who fail the required competency evaluations. While

this provides valuable information, there is no clear mechanisms nor accountability for turning this evidence into actions to improve the situation. The government strategy to address these shortfalls involves the creation of a new national police framework which includes the creation of the national guard and an improved coordination between the various police forces across levels of government.

While reforms have been positive, significant issues remain in the justice system

Recognising the need to improve the efficiency of the justice system, in June 2008 Mexico launched a major reform of its criminal justice system, which involved moving from a written, inquisitorial judicial process to an oral, adversarial one. The transition period was completed in mid-2017. This is a significant step towards increasing the transparency and efficiency of the justice system, although implementation issues remain. The implementation of the new criminal justice system was coordinated by SETEC, an autonomous body established specifically for this purpose. However, at the end of the eight-year implementation period in 2016, SETEC was disestablished, despite estimates that the new system would not be fully operational until 2024. Given the need for ongoing training and capacity building within the new criminal justice system, and the underdevelopment of some features of the new system such as mediation services, it is recommended that the monitoring and evaluation of its implementation continue. In this respect, the government is designing an institutional mechanism for the coordination and consolidation of the penal justice system. As a first step, a unit responsible for this is being established in the Ministry of the Interior.

Additionally, significant scope remains to improve the efficiency and impartiality of the justice system. In 2014, the Constitution was amended to replace the Attorney General's Office with a more autonomous prosecutor general. However, the constitutional amendment has not been implemented, and Congress has not approved additional constitutional and legislative reforms needed to officially establish it (Suárez-Enríquez and Indacochea, 2018_[97]). In January 2019, the first Prosecutor General was appointed by the Senate. The designation complied with the new regulation, with Senate proposing 10 candidates, and the President narrowing the list to three candidates from which Senate selected the Prosecutor General. Nonetheless, the designation has been questioned by some civil society organisations, who presented a proposal to further strengthen the independence of the Prosecutor from the executive power. In this proposal, civil society would have a more active participation in creating the list proposed by the Senate and limits would be imposed on the Prosecutor General in terms of holding political positions immediately prior to or on leaving the office. Moreover, under some serious violations of the law, the President may still remove the Prosecutor General unless the majority of the Senate objects to the removal. The civil society proposal also suggests that the ability of the president to remove the Prosecutor be ceded to Senate.

Establishing and implementing an integrated approach to anticorruption and integrity

The government recognises that corruption is a serious problem that is a drain on fiscal resources and undermines its ability to supply public goods and services. Corruption also has an adverse effect on political stability, the business environment, private investment and inclusive growth. The government is therefore accelerating the implementation of the ambitious National Anticorruption System (NACS). In addition, it is proposing five lines of action. Box 4 provides a description of NACS and the government's five priority action areas. These reforms are an extremely positive step.

Box 4. Mexico's National Anticorruption System and additional priority actions to tackle corruption

Mexico's National Anticorruption System (NACS) is a coordination structure between the federal- and state-levels, and for the three branches of government (the executive, legislative and judiciary) for the prevention, detection and sanctioning of administrative liabilities and acts of corruption, as well as the surveillance and control of public resources. Its purpose is to establish principles, public policies, and the general basis and proceedings for the coordination between authorities involved in the fight against corruption. This fight requires a homogenous policy framework to ensure a consistent application of principles and policies across the whole country.

Such a system is a challenge for a federal country like Mexico. After a broad discussion between political forces, academics, the federal- and state-level powers and civil society, instead of a single institution with national powers, the final decision was to strengthen existing institutions, and complete the institutional framework with a specialised anticorruption prosecutor, and the establishment of a broad governance arrangement for all public entities related to the fight against corruption. This structure would be replicated at the state level to ensure homogeneity of the system.

In May 2015, several provisions of Mexico's Constitution were amended, added or repealed, enshrining the National Anticorruption System into law. Secondary laws were passed in July 2016, and included:

- The General Law of the National Anticorruption System (Ley General del Sistema Nacional Anticorrupción), which establishes the institutional and governance arrangements. As a general law, it also requires states to establish their own systems along similar lines.
- The Organic Law for the Federal Public Administration (Ley Orgánica de la Administración Pública Federal), which strengthens the attributes of the Ministry of Public Administration (SFP). SFP is now responsible for integrity policies in the federal public administration, as well as retaining its previous mandate of internal control and audit, human resources management, public procurement, transparency and the administrative disciplinary regime.
- The Organic Law of the Federal Tribunal of Administrative Justice (Lev Orgánica del Tribunal Federal de Justicia Administrativa), which sets out the duties and responsibilities of public officials (including the disclosure of private interests) and administrative disciplinary procedures for misconduct, with serious offences now falling under the jurisdiction of the Federal Tribunal of Administrative Justice.
- The Organic Law of the Attorney General's Office (Ley Orgánica de la Procuraduría General de la República), which creates the position of Specialised Anticorruption Prosecutor, outlines the responsibilities of this office and consolidates its role within NACS. The Criminal Code was also amended accordingly to clarify procedures for prosecuting corruption-related crimes.
- The General Law of Administrative Responsibilities (Ley General de Responsabilidades Administrativas), which establishes the duties responsibilities of public officials (including the disclosure of private interests) and

- sets out administrative disciplinary procedures for misconduct, differentiating between less serious and serious offences (the latter now falls under the jurisdiction of the Federal Tribunal of Administrative Justice).
- The Law of Auditing and Accountability (Ley de Fiscalización y Rendición de Cuentas de la Federación), which extends the remit of the Supreme Audit Institution (ASF) and permits real-time audits and oversight over federal transfers to subnational governments (participaciones). It also requires timelier audit reporting to Congress.
- The Law of Fiscal Coordination (Ley de Coordinación Fiscal), which has regulated the distribution of tranfers to states (participaciones) and tax-sharing arrangements since 1978, was amended to align the new provisions of NACS, particularly those concerning the role of the Tribunal in disputes and the expanded remit of the ASF.
- The General Law on Government Accounting (Ley General de Contabilidad Gubernamental), which amends financial reporting requirements for states and municipalities as per the extended auditing jurisdiction of the ASF over participaciones funds.

The description of the institutional arrangements of the NACS is as follows:

- The Coordination Committee, charged with developing national anticorruption policies and monitoring and evaluating progress in annual reports, as well as directing and overseeing the work of the Executive Secretariat and Executive Commission. It is presided over by the President of the Citizens Participation Committee, and members include: the Minister of Public Administration (executive); the Supreme Auditor-General of the Federation (technically autonomous but supervised by the Chamber of Deputies); the President of the National Institute for Transparency, Access to Information and the Protection of Personal Data (INAI, an autonomous entity); the Specialised Anticorruption Prosecutor (autonomous); the President of the Federal Tribunal of Administrative Justice (judicial branch) and representative from the Federal Judicial Council (judicial branch).
- The Executive Secretariat to the Coordination Committee, which provides technical support to the Coordination Committee and oversees the development of the national digital platform. It has a governing board led by the President of the Citizens Committee and comprised of members of the Coordination Committee and a technical secretariat.
- The Executive Commission to the Coordination Committee, which provides technical support in the design and implementation of the Coordination Committee's activities, including annual reports and coordination with local systems.
- The National System of Supervision, which coordinates all levels of government to assure transparency of public expenses. It also improves state capabilities, assures common practice and facilitates information sharing across all institutions.
- The Citizen Participation Committee, which channels input from civil society into the work of the NACS and oversees progress and results. It can also conduct its own programme of work (investigations, research etc.). It has five members,

including the President, who are chosen by a selection committee of nine experts chosen by the Senate for a term of three years. The Committee is presided over by a President, with a one year term that is allocated on a rotating basis among the five members. Members must have made "an outstanding contribution to transparency, accountability and combating corruption".

Local Anticorruption Systems (LACS), whose responsibilities and activities should mirror those of the federal NACS, with analogous governance structure and procedures.

Further details of the reforms are discussed in OECD (2017_[85]).

In addition to accelerating the implementation of NACS, the government has proposed five lines of action areas:

- Promote the participation of the private citizens to denounce acts of corruption, monitor public matters and refrain from participating in corruption.
- Incorporate new technologies to detect misconduct, prevent the unintended usage of resources, increase transparency and manage a centralised procurement system.
- Protect whistle-blowers with laws and confidentiality so that they feel secure to denounce acts of corruption.
- Reinforce the Professional Career Service (SPC) to encourage professional hiring and meritocratic promotions of public employees.
- Adopt fiscal austerity, monitoring and assessment of governance performance to use the available resources more efficiently, avoid superfluous expenses, and get feedback from private citizens.

Experiences from other countries highlight that new laws and regulations per se are insufficient for cultivating sustained adherence to integrity values (OECD, 2017_[85]). Indeed, there are few international examples in recent times of countries where corruption has been successfully tackled in a wholesale fashion – the two often-cited exceptions are Hong Kong and Singapore. The experience in these countries highlights that how well the institutional and legal frameworks are implemented and operate in practice depends on the political will to implement them, including by providing adequate resources and tools (OECD, 2013_[98]).

A great deal of the value-added from NACS is in bringing together key players to better align policies and approaches and to cooperate in implementation. While the implementation of NACS has been slow and is not yet complete, the present government is committed to completing its implementation and have undertaken important steps. This includes the recent appointment of the Special Anticorruption Prosecutor, and the magistrates charged with investigating and prosecuting administrative misconduct are currently in the process of being appointed. Going forward, it will be key to ensure full autonomy of the Special Anticorruption Prosecutor, and provide it with adequate resources to ensure it can effectively carry out its mandate.

Addressing corruption at the state and municipality level is crucial for improving integrity given that many of the opportunities for corruption take place at the subnational level. Recognising this, the General Law of NACS requires states to create local anticorruption systems consistent with the federal system. Under the reforms, mandatory local anticorruption systems were supposed to be in place by July 2017. However, several states have not yet fully implemented their state-level system, but important progress has been made. As of March 2019, 27 states had completed the required legislative changes, 29 had appointed an Anticorruption Prosecutor, 28 had created their Coordination Committee, and 22 had completed the state structures (Sistema Nacional Anticorrupción, 2019_[99]). In 2017, the Committee of Administrative Participation filed a constitutional challenge (amparo) against several states for the delay in undertaking legislative changes required by the system. The OECD Integrity Review therefore recommended that the Coordination Committee dedicate specific resources to monitoring subnational legislation to ensure that they have the strength of the federal anticorruption laws in order to operate efficiently and to avoid shielding the subnational executive branches from sanctions (OECD, 2017_[85]). Local anticorruption systems that are in line with the General Law should be adopted and implemented, and monitored by an anticorruption agency (if established – see below) or otherwise the Coordination Committee.

Going forward, the outcomes of NACS should be monitored and evaluated. If it is not achieving the desired results, Mexico should consider introducing a specialist anticorruption agency, with a clear mandate, specialist staff and sufficient resourcing. Anticorruption agencies have been established in several countries, although different countries have taken different approaches to the scope and institutional structure of these agencies (OECD, 2013_[98]). In Mexico, such an agency would need to take account of the government's federal structure, and the consequent devolution of power to subnational governments.

Malaysia offers a recent example of a country making efforts to improve its anticorruption governance framework. In 2018, the new government established the National Centre for Governance, Integrity and Anti-Corruption (GIACC). The GIACC has the mandate to coordinate and monitor all initiatives related to governance, integrity and combating corruption. The National Anticorruption Plan 2019-2023 was launched in January 2019. It envisions making Malaysia a corruption-free country through three specific goals: accountability and credibility of judiciary, prosecution and law enforcement agencies; efficiency and responsiveness in public service delivery; and integrity in business. Taking lessons from the past efforts to combat corruption, monitoring and evaluation have been prioritised.

Table 7. Past OECD recommendations on institutional quality

Recommendations	Actions taken since the 2017 Survey
Build capacity of the sub-national level entities involved in the new anti- corruption system (2017).	27 states have concluded the required legislative changes, 29 have appointed an Anticorruption Prosecutor, 28 have created their Coordination Committee and 22 have completed the state structures.
Extend oral trials to all civil and commercial cases. Boost training, resources and technology for the judiciary (2017).	Oral commercial trials are now applied in almost half of commercial and civil cases, and on average, mercantile matters are resolved in 164 days.
Reform justice institutions, strengthen the rule of law, address security issues and reduce widespread corruption with reforms centred on the efficiency of judicial resolution of civil, commercial and criminal matters, and a strengthening of the transparency of public procurement (2015).	The transition period to oral, adversarial criminal trials was completed in mid-2017. The new General Law on Administrative Responsibilities came into force in July 2017. Implementation of the National and Local Anticorruption Systems is ongoing. A constitutional reform to remove presidential immunity whereby presidents are protected from criminal prosecution has been submitted to the Senate. The Chamber of Deputies has approved a reform expanding the crimes for which the government can confiscate property to include, among others, corruption and fuel theft, and the reforms will now be considered by state legislatures. The creation of a National Guard has been approved. A plan to fight fuel theft is being implemented.

Effective climate mitigation policies can help move Mexico to a strong and sustainable growth path

Mexico has supported climate change mitigation early and vigorously

Mexico was the first emerging economy country to submit its intended nationally defined contribution (INDC), marking its commitment to the Paris Climate Agreement. It committed to reducing greenhouse gas emissions (GHGs) by 22% relative to a businessas-usual scenario by 2030. It pledged a reduction of up to 36%, conditional on the provision of adequate financial and technological support from developed countries (IEA, 2017_[100]). Mexico also adopted the General Law on Climate Change in 2012, one of the world's first climate laws. It introduced a long-term target of 50% GHG emission reductions compared to 2000. On current policies, Mexico as many other OECD countries, will not meet its emissions targets (IEA, 2017[100]). Further emission reductions need not be costly and can bring additional benefits in terms of lower air pollution and lower congestion for example in urban transport.

Mexico's CO₂ emissions have risen less than GDP in recent years, which may be the result of the reduction in subsidies to fossil fuel use (see below). The energy intensity of the economy has declined (Figure 38). However, fossil fuels still account for 90% of primary energy supply, reflecting Mexico's status as a major oil producer, and the share of renewables has risen modestly in recent years, although solar energy has picked up.

CO₂ emissions have increased the most in electricity generation and transport. Mexico has the highest transport CO₂ emissions per unit of GDP in the OECD. Boosting Mexico's economic development while reducing demand for high-carbon fossil fuels will be an important challenge to meet commitments to climate mitigation.

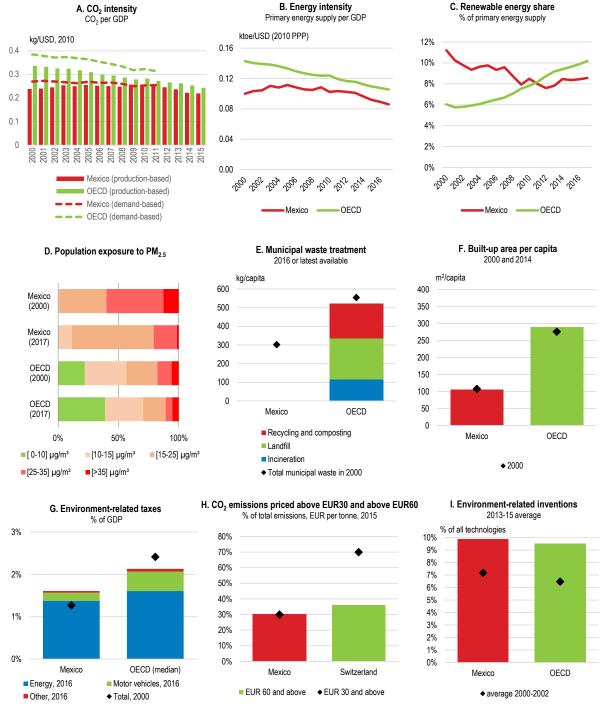


Figure 38. Green growth indicators for Mexico

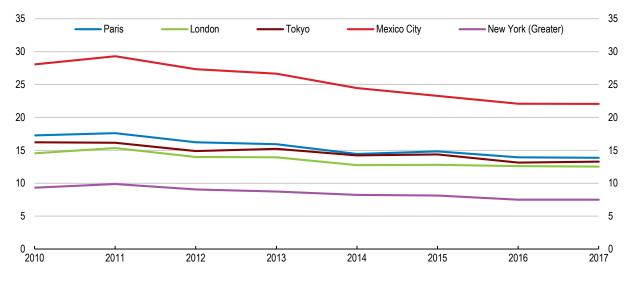
Source: OECD (2018) Green Growth Indicators.

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Mexicans are exposed to higher levels of air pollution than the population in other OECD countries. In Mexico City exposure to small particles remains high (Figure 39), reflecting strong car use (ITF, 2017_[101]). In part this reflects Mexico City's inland location, which makes it more vulnerable to high pollution exposure than coastal cities. As elsewhere in the OECD, outdoor air pollution impacts labour productivity, health expenditures and agricultural crop yields. Estimated premature mortality from outdoor air pollution has risen to 28 000 per year (Roy and Braathen, $2017_{[102]}$). Children are particularly strongly affected. For example, air pollution appears to affect education outcomes of young children markedly and lastingly (Heissel, Persico and Simon, $2019_{[103]}$).

Figure 39. Small particle emissions in Mexico City are still high

Mean population exposure to PM 2.5 emissions, 3-year averages, 2010-2017



Source: OECD Environment Database.

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A wide range of policies, discussed below and in Chapter 1, could help Mexico meet its international climate policy commitments and reduce air pollution while boosting economic performance. Reforming urban policies offers an opportunity to reduce pollution and transport CO₂ emissions while boosting productivity. They can also help improve health and well-being and so make Mexico's cities more attractive to businesses and workers, drawing in high-value added, knowledge-intensive services.

Recent estimates suggest that in key policy areas, emission reduction measures would result in cost savings, as upfront investment needs would be more than offset by subsequent savings on fossil fuels and on high-carbon infrastructure spending (INECC, 2018_[104]). To reap these benefits, public action is required to expand low-emission electricity generation, move to low-emission transport and improve urban transport and planning.

Progress in pricing would help reduce carbon emissions efficiently

Mexico has made progress in including the costs of energy use more fully in its energy prices. Further progress will be necessary to meet climate policy objectives and lower air pollution. Steps are needed to make sure low-income households and low-skill workers benefit. This would also help gain broad citizens' support.

As part of the 2014 energy reforms, Mexico moved away from subsidies and increased taxes on transport fuels. It also introduced carbon taxes, and competitive elements into energy markets, making them more accessible to new entrants (OECD, 2017_[6]). These

reforms have increased tax revenues and are expected to improve energy efficiency, raise GDP and reduce CO₂ emissions. However, electricity prices for the residential and agriculture sectors are still far below cost (OECD, 2017[105]). Authorities have recently reinstated subsidies to some types of gasoline by reducing excise taxes above a defined threshold (19.58 pesos at November 2018 pesos) adjusted for inflation, to be reviewed every two weeks. This may constitute a potential implicit subsidy if the international price of gasoline plus domestic mark-ups and transportation costs exceeds the threshold.

The reform makes substantial progress in the effective taxation of carbon emissions, although the overall taxation of emissions remains low, at about one euro per tonne of emissions. This is much lower than the low-end estimate of climate-related cost of carbon emissions of around 30 euros per tonne (Arlinghaus and van Dender, 2017[106]). Coal is taxed at a reduced rate and natural gas is exempt. Uneven carbon pricing reduces efficiency in achieving Mexico's greenhouse gas emission targets. Carbon taxes are an attractive source of tax revenue for economies where a large share of economic activity is not declared to the tax authorities because energy taxes are difficult to avoid. Simulations for the United States Spain, China and India suggest that the economic gains from reducing the informal sector through higher energy taxation are substantial (Bento, Jacobsen and Liu, 2014_[107]) (Markandya, Gonzalez-Eguino and M. Escapa, 2013_[108]). It is therefore also important to make sure subsidies of fossil fuel and electricity use are fully phased out in the future.

Removing subsidies and increasing taxes on transport fuels are likely to be progressive, as cars are mostly owned by high-income households (Arlinghaus and van Dender, 2017_[106]). However low-income households may have less resources to adapt. To maintain unsubsidised prices, it is therefore important to compensate them for the loss of purchasing power with effective income transfers (OECD, 2017_[105]). Research in European economies suggests that one third of the revenues from higher energy taxation is sufficient to provide compensation for low-income households. For example, in Bogotá targeted public transport subsidies for poor households increased use of public transport and hourly wages of workers benefiting from the subsidy, suggesting they increased their productivity by giving them access to better jobs. Macroeconomic simulations, including for the Mexican economy, indicate that substantial carbon taxes (around EUR 40 per ton CO₂) worldwide, including in Mexico, would have no long-term effect on aggregate employment in Mexico (Chateau, Bibas and Lanzi, 2018[109]).

To convince citizens of the benefits of reforms to remove energy subsidies and raise carbon taxes, survey evidence suggests that the government should state clearly how budgetary resources gained from such reforms are used. Using carbon tax revenues to further improve environmental outcomes and reduce poverty strengthen citizens' support (Kallbekken and Aasen, 2010[110]; Kallbekken, Kroll and Cherry, 2011[111]; Baranzini and Carattini, 2017_[112]). On the other hand, revenue earmarking would introduce additional budgetary rigidities. Good quality governance, notably the absence of corruption, also strengthens support. Moreover, it is important that the relief is front-loaded and clearly visible.

A near-term priority is to reduce coal use and boost renewable energy

Mexico plans to add new coal-fired electricity generation capacity (Climate Action Tracker, 2018[113]). To decarbonise coal-fired electricity generation, it would need to be combined with carbon capture, use and storage (CCUS). CCUS technologies have the potential to play an important role in reducing emissions from the use of fossil fuels. Mexico's energy reforms recognise that fossil fuels will continue to contribute to social and economic development, but must do so in a way that is compatible with the country's ambitious climate goals. The government considers research, development and demonstration projects in CCUS as an integral part of its climate policy. The International Energy Agency (IEA) has welcomed this focused and practical approach.

Mexico has developed a comprehensive CCUS Technology Roadmap published in 2014. The Roadmap articulates a 10-year strategy, including a multi-staged approach to development and deployment. It provides a framework for a range of activities, including: co-ordinating research activity, building capacity, establishing regulations; encouraging private-sector investment; developing pilot projects for CO₂ capture (including on coal or gas-fired power generation); and ultimately the commissioning of a large-scale CCUS demonstration project around 2020. The Roadmap was developed in conjunction with the World Bank and the IEA has commended all parties on a well-considered strategy that could serve as a model for other countries looking to develop CCUS technologies.

Meeting its climate goals in the context of the announced expansion in coal-fired generation would, however, require significant deployment of CCUS on a scale that has not yet been seen in Mexico. Unless Mexico is prepared to commit to such an expansion in CCUS deployment, Mexico should carefully assess the construction of new coal-fired power generating capacity against the trade-off between energy security and climate goals.

Mexico's energy reform also provides support for the deployment of "clean" energies, through two mechanisms. First, electricity retailers have to acquire clean energy certificates, which they obtain from purchasing clean energy or certificates, for example, from other retailers. The price of the certificates will raise profitability and incentives to produce clean energy. Second, suppliers can sell clean energy to retailers at prices fixed in auctions. Clean energy includes renewable energy as well as nuclear power, efficient cogeneration and fossil-fired generation with carbon capture and storage. The required share of clean energy was fixed at 5% in 2018 rising to 5.8% in 2019 and 13.9% in 2022. However, the long-term auctions have been suspended.

It may be cost-effective to combine carbon pricing with support to renewables. The deployment of renewables reduces costs over time as a result of "learning by doing" but also because climate objectives require putting a quick end to building new fossil-fuel fired power (Baldwin, Cai and Kuralbayeva, 2018_[114]). Moreover, in an environment characterised by uncertainty about how electricity systems will adapt, transferring all associated risks to low-carbon generators inhibits investment (IEA, 2016_[115]). It would therefore be welcomed if the auctions were resumed. This would also reinforce the effectiveness of current plans to develop green financing (Box 5). To provide incentives for suppliers to integrate renewable capacity into networks well, remuneration of electricity produced from intermittent renewable sources should respond to market prices (IEA, 2016_[115]). Provision of land for project development and grid connections support auction success.

Box 5. Climate finance policies for Mexico

As part of the public policy for climate mitigation, the government is in the process of implementing a sustainable finance strategy, which includes:

- **Carbon tax.** The government will analyse the performance of the current carbon tax scheme to identify potential reform initiatives that can be part of the comprehensive tax reform planned by the government in the medium term.
- Carbon Emission Trading System. Mexico has been working towards establishing a carbon market in the medium term. The initiative plans to work under market-based mechanisms and it has intended that, at the least, a pilot market would be operational by 2020 and fully operational by 2021.
- Sustainable finance. The Ministry of Finance has created a directorate, within its organisational structure, to develop a holistic strategy and key actions for financing sustainable growth. The action plan includes:
- Standardised sustainable taxonomy. The Ministry of Finance, in collaboration with the central bank, plans to define and develop a standardised sustainable taxonomy across the financial sector to promote the design of financial instruments that will catalyse private investment into low-carbon and climate-resilient technologies.
- Disclosure and management of climate change risks. Regulatory reforms to promote the disclosure and management of financial risks stemming from climate change (transitional and physical risks), resource depletion, environmental degradation and social issues, particularly for the pension and insurance schemes.
- Green budgeting. The government has finalised the methodology for green budgeting and plans to conclude the mapping exercise by the first semester of this year. This initiative will allow the mainstreaming of climate change aspects into budget planning and will contribute to the calculation of the existing financial gap to support climate change adaptation and mitigation investments.
- **High-impact projects pipeline**. As part of the sustainable finance strategy, the government is developing a high-impact projects pipeline to be financed with green international funds to ensure an efficient use of these resources into high-impact projects for sustainable development; and the design of the financial architecture that will support the project pipeline in the long term.
- **Accountability**. Review the performance of existing trust funds (fondos y fideicomisos) directed towards environmental and climate change projects and include results-based criteria to track progress of national commitments and accountability of financial flows.

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Annex A. Recent policy reforms

Table A.1. Details of recent policy reforms

Policy area	Reform area/actions
Tax policy	Personal Income Tax: Top personal income tax rate increased to 35% and limits imposed on tax deductions. A capital gains and dividend tax of 10% was introduced. Corporate Income Tax: limits on depreciation allowances were imposed and the fiscal regime that allowed firms belonging to a business group to file taxes jointly was eliminated. A number of loopholes and exemptions that allowed for accelerated deduction of investment expenses were removed or reformed. The preferential tax treatment of maquiladoras was revised to make it more neutral. In 2019, CIT in the northern border zone was reduced as a temporary, two-year measure to stimulate local economic activity. Value-added Tax: base broadening: reduced VAT rates in the border region were abolished in 2014, but reintroduced in 2019 as a temporary measure, and special exemptions for maquiladoras were removed. A tax on high-caloric foods and sweetened drinks was introduced. Informality: Fiscal (the RIF – Régimen de Incorporación Fiscal) and social security regimes for incorporation introduced in 2014 to fight informality. Moved away from transport fuel subsidies and increased special taxation on these fuels. Introduced carbon tax for fuels outside the transport sector in 2014. In 2017, an R&D tax credit was re-introduced. In 2019, universal compensation whereby taxpayers could automatically compensate other tax credits against VAT was eliminated. Digital economy: from April 2019, digital platform providers will be required to withhold VAT and income tax of 'gig economy' workers using their platforms.
Fiscal federalism	An incentive for municipalities to transfer the administration of the property tax to the state government was established in the Fiscal Federalism Law in 2014. VAT rates were unified across states. In 2016, the Federal Financial Discipline Law for States and Municipalities was passed to promote sustainable public finances, a responsible use of public design, and reinforce subnational accountability and transparency. In 2019, some components of Ramo 23 (discretionary transfers fund) were removed.
Financial sector	2014 reforms to strengthen the regulatory powers of CNBV and CONDUSEF, increase banking competition, strengthen development banks, improve and streamline bankruptcy procedures and formalise the incorporation of Basel III rules. A National Financial Inclusion Strategy was finalised 2016. In 2017, a regulatory framework for FinTech was established, and initial secondary regulatory issued in September 2018, with additional secondary regulation due to be issued in March 2019 and March 2020. In January 2019, an eight point financial sector plan was announced.
Competition policy	In 2013, two new autonomous competition authorities were created – COFECE and IFT – with greater independence, resourcing and powers. In 2014, a new Federal Economic Competition Law was enacted, granting the authorities new powers. This included the ability to regulate access to essential facilities, undertake market studies and conduct "dawn raids". Criminal sanctions for cartels have been reinforced. Specialised competition courts were created. Appeals regarding the legality of the proceedings of COFECE and IFT no longer have suspensive effects. However, as part of broad authority measures, the 2019 budget reduced for all ministries and public entities their resources and salary caps were introduced also for COFECE and IFT.
Regulatory reform	Several measures that formed part of the <i>Justicia Cotidiana</i> programme, which was implemented in all states (including federal government engaging with state and municipal governments to simplify business licences and construction permits, reduce local administrative burdens and diagnose regulatory reform in key sectors). Constitutional reform to establish a national policy on regulatory improvement was approved in February 2017. The General Law for Regulatory Improvement was passed in May 2018, which establishes the duties and responsibilities that state and municipal governments must follow to improve their regulatory frameworks.
Telecommunications and broadcasting	A new regulator (IFT) with exclusive authority for regulation and competition enforcement in the telecommunications and media industries was formed in 2013, and has a range of new regulatory capabilities to promote competition. IFT was granted the responsibility of determining the existence of preponderant operators and impose the necessary measures to ensure competition. In 2019, the <i>Red Troncal</i> tender was suspended, and the <i>Internet para Todos</i> initiative was launched, aiming to improve connectivity in underprivileged locations that have low or no connectivity.

Energy market

As part of the 2013 energy reforms, new sector regulators were created (with legal independence and budgetary autonomy). In 2019, their budgets were reduced and announcements made that they will be reviewed. In 2016, CFE's network and generation activities were legally separated. In 2014, PEMEX and CFE were turned into a "productive state enterprise" with improved governance. In 2019, plans to strengthen PEMEX and reinforce its budget were announced. The 2013 energy reforms opened domestic and foreign investors can enter oil and gas exploration, production and transportation sectors, and the refining and marketing of hydrocarbons. In late 2018, it was announced that existing contracts would be respected, but further tenders would be postponed. Retail fuel prices were liberalised in 2017. In late 2018, a National Refining Plan was created, aiming to achieve self-sufficient energy generation by rehabilitating PEMEX's 6 refineries and constructing a new one. In early 2019, the 4th clean energy auction was cancelled.

Labour market and tackling informality

The 2012 Labour Reform acknowledge new modalities of hiring and employment as temporary work, teleworking, hourly work and outsourcing. In June 2014, a constitutional reform raised the minimum working age from 14 to 15 years. In 2016, a constitutional amendment was approved to reform collective bargaining and the guarantee of union representation. The reform transfers the administration of employment matters from the conciliation and arbitration boards to the labour courts. It also proposes the creation of a decentralised federal agency for conciliation, with autonomy of management and budget, with national powers for the registration of all collective labour contracts and trade union organisations. In a follow-up to the constitutional reform approved in February 2017, regarding the administration of labour justice, initiatives to reform the secondary legislation were presented to advance this issue.

Election system

Following the 2014 reform to Article 41 of the Constitution, re-election of federal deputies, senators, mayors and local deputies is now allowed. Rules were established to increase gender equality (e.g., national lists for proportional representation in each party).

Education quality

In 2012, a constitutional reform made quality education a right for all Mexicans. Constitutional autonomy over the evaluation of Mexico's compulsory education system was granted to the National Institution for Education Evaluation (INEE) in 2012. In 2013, three complementary legislative proposals were approved: the General Law of the Professional Teaching Service, the Law of the National Institute for Evaluation of Education and reforms to the General Law of Education. The 2013 Professional Teaching Service (Servicio Profesional Docente) established a teacher evaluation system. A New Education Model was introduced in 2017, which reforms the curriculum for compulsory education to ensure that students are able to develop the skills required in the 21st century. Other policy actions included continued efforts to increase coverage at all educational levels with an emphasis on transitions, permanence and completion of studies; strengthening of school management autonomy through increased participation of parents by augmenting the number of active social participation councils; continued to invest in educational infrastructure, implementation of the Strategy for the Strengthening and Transformation of the Normal Schools, aligning the curriculum and teaching practices to the requirements of the New Educational Model; constitution of a National System of Upper Secondary Education that integrates and articulates the 33 existing subsystems aimed at strengthening the continuity of educational trajectories, as well as reducing administrative burdens. In 2019 the model for teacher evaluation has been replaced by a new one based on teaching observation in the class-room, and the analysis of practices to improve student learning.

Judicial system and security

Measures that are part of the Justicia Cotidiana programme (e.g., commercial oral trials). A new unified National Code of Criminal Procedure was adopted in all states and at the federal level in 2014, with further amendments to the Code in 2016. In 2014, the Constitution was amended to replace the Attorney General's Office with a more autonomous Prosecutor General. Mexico's first Prosecutor General was appointed in January 2019. The transition period to oral, adversarial criminal trials was completed in mid-2017. A constitutional reform to remove presidential immunity whereby presidents are protected from criminal prosecution has been submitted to the Senate. The Chamber of Deputies has approved a reform expanding the crimes for which the government can confiscate property to include, among others, corruption and fuel theft, and the reforms will now be considered by state legislatures. The creation of a National Guard has been approved in the lower house. A plan to fight fuel theft is being implemented.

Anticorruption and transparency

The National Anticorruption system was created to improve and facilitate co-ordination in the prevention, detection and sanctioning of corruption. However, it has not been fully implemented. The General Law of Administrative Responsibilities (GLAR) heightened penalties for those engaged in corruption, and obliges public servants to disclose their tax returns, submit asset declarations and declare conflicts of interest. A national auditing system was established to harmonise anti-corruption and integrity policies and capacities across Mexico. A system to allow citizens to submit complaints and allegations of corruption and follow cases was launched. A General Law of Transparency was enacted in 2015 and states have compiled with the new requirements.

Innovation system

Creation of Coordination of STI in the Office of the President in January 2013, which has been coordinating the National Digital Strategy. Increase of CONACYT's budget by about 20% in 2014. Goal of increasing R&D spending to 1% of GDP by 2018 set out in Special Programme for STI 2014-2018. The Law of Special Economic Zones was approved in 2016 and agreements for seven SEZs have been signed. Roll-out of Red Compartida wholesale mobile network is underway.

Modernisation of agriculture	PROAGRO programme introduced in 2013 reformed agricultural subsidies. Technical upgrading of irrigated lands (<i>Programa de Tecnificación del Riego</i>), which provides subsidies for the introduction of irrigation technology in agricultural plots. Programme of agri-parks and agricultural clusters (<i>Sistema Nacional de Agroparques</i>) was established to provide subsidies for the design, building and operation of agri-parks in areas with agricultural potential. In 2019, guaranteed minimum prices for small producers of 5 agricultural products were introduced.
Unemployment insurance, pensions and social benefits	Prospera launched in 2014 (revamped cash transfer programme), with better links to education, training and formal employment to promote self-sufficiency. The scheme of social programmes (including PROSPERA) is currently under review. Initiatives that have been announced as of early 2019 include a scholarship and training programme for young people, a universalisation of pensions and a double of payment amounts, microcredits without interest to small entrepreneurs and a special programme of cash transfers and scholarhsips for residents of communities where there is a high incidence of fuel theft.
Health system	Increased health care access through <i>Sistema de Protección Social en Salud</i> (including the insurance scheme Seguro Popular). A National Strategy for the Prevention and Control of Overweight, Obesity and Diabetes was launched in 2013. In 2016, the National Agreement Towards Health Service Universalisation was signed by Ministry of Health, ISSSTE, IMSS and 3 states. The number of agreements to exchange health services between institutions has increased. Further integration and improvement of the purchasing function of the health system through the activities of the Interinstitutional Commission for Price Negotiation of Medicines and other Medical Inputs of monopolistic nature, as well as the consolidate purchase of medicines and medical devices for all public institutions that IMSS coordinates.
Urban planning	Establishment of National Urban Development Programme 2014-2018 and National Housing Programme 2014-2018.

 $Source: \ Various \ sources \ including \ OECD \ \ (2015_{[116]}); \ OECD \ \ (2017_{[6]}); \ OECD \ \ \ (2018_{[59]}).$

Annex B. Quantification of the impact of structural reforms

The OECD long-term model includes projections based on different policy scenarios (Guillemette and Turner, 2018_[89]). This encompasses policy choices in areas where Mexico and other emerging economies tend to lag (eg, education and institutional quality), and in areas where advanced OECD countries display substantial heterogeneity (eg, product market regulations and innovation policies).

The long-term model integrates recent OECD empirical work on the impacts of structural reforms (Égert and Gal, 2017_[117]), but examines a longer reform window and more general policy shocks. The long-term model is used here as many of the specific policy shocks in reforms in the shorter-term model are more relevant for high-income OECD countries.

A baseline scenario establishes the projected growth path in a "no policy change" situation, although this does incorporate the likely evolution of education levels based on demographics and the average path of educational expansion in other countries (which would increase Mexico's average years of schooling from 9.2 in 2017 to 11.8 years by 2060). In areas where Mexico currently performs well below the OECD median, the policy shock brings Mexico up to the this level, while in other areas where Mexico is closer to the OECD median, the policy shock brings Mexico up to the current level of leading OECD countries. The size of the public investment shock is based on estimates of the additional infrastructure spending needed to close the infrastructure gap by 2035 (McKinsey Global Institute, 2017_[118]). Thus, the following reform scenarios are compared with the baseline:

- Improve governance to the OECD median by 2060 (measured by the World Bank's rule of law indicator)
- Increase educational attainment to the leading OECD countries (average of top five countries) by 2040 and reduce the Gini coefficient to the OECD median by 2060
- Improve product market regulations to the leading OECD countries by 2030
- Increase research and development spending to the OECD median by 2030
- Increase public investment by 1.3 percentage points of GDP from 2025

These scenarios suggest that the combined implementation of these reforms could increase Mexico's GDP per capita by 12% by 2030 compared with the "no policy change" scenario (Figure 37). The gains are mainly driven by improved labour efficiency (ie, productivity) (Figure 37), with capital per worker also making a large contribution. The contribution from increased employment is much smaller. While Mexico still has significant room to increase employment levels, particularly among women (Figure 7), productivity and capital intensity are more important channels for the particular policies examined. Labour market reforms, which would have a greater impact on employment rates, are not examined using the long-term model in the case of Mexico. First, the policy interventions that can be modelled are often less relevant given the particular features of the Mexican system. For example, the model estimates that increasing the unemployment benefit replacement rate would have a negative impact on the employment rate. However, Mexico does not have an

unemployment benefit or insurance system, and it could in fact be a growth-enhancing alternative to mitigate the personal costs of job loss compared with the current system of high and uncertain dismissal costs and narrow conditions for justified dismissals for permanent formal workers. Moreover, all of the modelled labour market policies apply only to formal workers. However, given that more than half of Mexico's workforce are informal, the modelled labour market policies will affect the relative costs and therefore incentives to hire formal versus informal workers.

There are also some important caveats to the presented results. Policy complementarities are not explicitly accounted for. For example, the improvements to governance may have an even bigger impact than the model suggests given the importance of institutional quality to the implementation of other policy reforms.

A more specific caveat relates to the size of the estimated payoff from increased public investment. The size of the chosen policy change was an increase in public investment of 1.3 percentage points of GDP a year, which was based on McKinsey Global Institute (2017_[118]) estimates of what would be needed to close the infrastructure gap in Mexico. This increase delivers a very small payoff in terms of GDP per capita in the model. The model estimates a relationship between a flow measure of public investment and GDP per capita. However, given the low starting stock of infrastructure in Mexico, this is likely to underestimate the marginal return from public investment. Once again, important complementarities are also not captured in the model, as lack of infrastructure can create a bottleneck that prevents improvements across several areas. For example, improved digital infrastructure can contribute to inclusive growth by facilitating the development of the digital economy, fostering innovation and technology adoption and opening options for better delivery of numerous services from financial to social and educational services, among others. Improved transport can support green growth, boost productivity, enhance educational and good quality job opportunities for citizens.