1 Key policy insights

The Finnish economy recovered rapidly from the pandemic but now faces deteriorating global conditions, especially since Russia's war of aggression against Ukraine. Inflation has soared, reducing disposable incomes, exports have weakened and the investment environment has become less favourable. Finland is well placed to cope with the loss of energy supplies from Russia, although replacing gas in industrial uses with other energy sources will take time. Monetary conditions are becoming less accommodative and the structural budget deficit has increased, mainly owing to expenditures related to the Russia's war against Ukraine. Fiscal consolidation is required to meet Finland's medium-term objective and to stabilise the debt-to-GDP ratio over the longer run. To close the gap in living standards with the other Nordics, reforms are needed to boost productivity growth, especially to strengthen innovation, and to raise the employment rate. Finland is on track to meet its gross greenhouse gas emissions abatement objectives, but not the forestry and other land-use sink targets needed to meet the 2030 EU effort-sharing target for this sector and the 2035 net zero emissions target stipulated in the Climate Change Act. There is considerable scope to increase the efficiency of greenhouse gas emissions abatement measures

Finland had recovered from the COVID-19 shock by the second quarter of 2021 and was enjoying solid economic growth before Russia's war of aggression against Ukraine. However, rising energy prices from late 2021 as the global recovery from the COVID shock gathered pace began to weigh on the recovery in Finland and other energy importers. Russia's war against Ukraine caused energy and other commodity prices to soar, slowing the economies in Finland and its main trading partners (Box 1.1). Finland has taken a greater hit from shrinking exports to Russia than most other EU countries, despite such exports having already fallen to a small share of total exports before the war began, following years of sanctions since Russia annexed Crimea in 2014. Output is expected to remain well below its potential level in 2024.

Box 1.1. Key features of the Finnish economy

Finland has a small population (5.5 million) but a land mass (338 000 square kilometres) that is almost as big as Germany's. It shares a 1 340-kilometre land border with Russia. Services account for 70% of value added, close to the OECD average (Figure 1.1). The largest service sectors are education and social work activities, real estate activities and wholesale and retail trade. In manufacturing, which accounts for the same share of value added as the OECD average, the largest sectors are wood and paper products, and manufacture of computer, electronic and optical products. Finland's largest categories of exports are machinery and electrical equipment, and steel, iron and other basic manufactures (Figure 1.2, Panel A). Finland is highly dependent on European export markets - almost two-thirds of exports are to EU countries, with the largest shares going to Sweden and Germany (Figure 1.2, Panel B). Russia only accounts for a small share of Finnish exports. The export ratio (38%) in Finland is lower than in the other Nordics and similar-sized European countries (Figure 1.3), partly reflecting trade sanctions on Russia and low inward foreign direct investment (OECD, 2017). Finland is well integrated in global value chains in terms of the use of imported inputs in its exports (Figure 1.4, Panel A), but not so much as a provider of inputs to other countries' production to meet final demand (Figure 1.4, Panel B), which may be an advantage in the short run even though it holds back productivity in the long run.



Figure 1.1. The structure of the Finnish economy is similar to the OECD average

 2020 data for Canada, Chile, Iceland, Japan, Korea, Lithuania, Mexico, Netherlands, New Zealand, Poland, Portugal, Spain, Sweden, Switzerland and United Kingdom.
 Note: Shares may not add up to 100% owing to rounding. Service sectors are shown in blue.
 Source: OECD (2022), <u>National Accounts</u> (database).

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18 |



Following Finland's application in May 2022 to join NATO, Russia terminated gas and electricity exports to Finland. While most gas was imported from Russia, gas only represents 5% of total energy consumption (Box 1.2) and plans are advanced for sourcing it elsewhere, in LNG form. Additional electricity from local sources and from Sweden and Baltic countries has replaced imports of electricity from Russia, which represented 10% of electricity consumption. The new nuclear power plant will supply 14% of Finland's electricity when it reaches normal operating capacity in winter 2022-23. Oil imports from Russia fell sharply following the beginning of the war and ended in July. Finland is well advanced on the transition away from fossil fuels, with renewables already a larger source of energy.

Box 1.2. Energy sources and security in Finland

The largest energy sources in Finland are wood fuels, oil and nuclear (Figure 1.5, Panel A). The use of wood fuels in heat and power plants is mainly based on the use of by-products from the forest industry. These products account for more than 70% of renewable energy production. Renewable energy sources accounted for 42% of total energy consumed in 2021, exceeding fossil and peat sources (34%) for the first time. Natural gas only accounts for 5% of energy consumption, much less than in most other European countries. It is mainly used in industry and district heating production, not in property-specific heating as in most other European countries. Coal is declining as an energy source and will be banned by law after the winter of 2029.

Finland's electricity supply is diverse in terms of both energy sources and production technology. About 85% of electricity production is emissions-free (Figure 1.5, Panel B). In 2021, more than half of Finland's electricity production was generated with renewable energy sources with nuclear power accounting for a further 32%. Fossil fuels and peat accounted for 14% of electricity production. The share of electricity imports has been quite high (around 20% on average) in recent years. Electricity is imported (on a net basis) from the Nordic countries and, until May, was also imported from Russia. The bringing on stream of the Olkiluoto 3 nuclear power plant (it has been functioning on a trial basis since March 2022 with steadily rising production), which will account for 14% of Finland's electricity consumption when it



reaches full operating capacity in winter 2022-23, and additional construction of wind power, which is

Source: Statistics Finland.

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Breaking away from Russian energy

The European Council has called for an end to dependence on imports of Russian gas, oil and coal as soon as possible. It prohibited coal imports from Russia from August 2022 and set deadlines for ending oil and gas imports of end-2022 and 2027, respectively. To meet these deadlines and in addition to the European Green Deal and the Fit for 55 legislative package (European Commission, 2022_[1]), the European Commission has published the REPowerEU Plan, setting out the EU's strategy to move away from Russian fossil fuels, become more self-sufficient in energy and speed up the clean energy transition. The REPowerEU Plan is based on three pillars: diversification of natural gas supplies and common purchases of natural gas, LNG and later hydrogen via the EU Energy Platform; boosting energy efficiency and energy savings; and accelerating the deployment of renewables. Member states are expected to include in their updated Recovery and Resilience Plans a new REPowerEU chapter that will include reforms and investments to help achieve the REPowerEU objectives. Russia has accelerated the phasing out of EU gas imports by cutting off supplies to a growing number of countries and severely restricting supplies to others.

Oil and coal are global fuels with multiple sources of supply. Several Finnish companies have announced that they are rapidly changing their sources of supply. There are mandatory storage arrangements for oil and natural gas.

Regarding natural gas, the situation is still challenging, even though natural gas accounts for only 5% of Finland's total energy consumption. The Balticconnector pipeline, which was opened two years ago, will provide an alternative source of gas supply through the Baltics. The liquefied natural gas (LNG) infrastructure is being expanded: Gasgrid Finland Oy and US-based Excelerate Energy, Inc. signed a ten-year lease agreement for the LNG terminal ship Exemplar (with a capacity of 151 000 cubic metres of LNG) in May 2022, which will be operational by end-2022. Moreover, this infrastructure can be used more efficiently. However, these sources do not cover the entire demand for natural gas. While the

manufacturing sector has made progress in replacing natural gas with other materials, replacing all natural gas used by industry is challenging in the short term.

The cessation of electricity imports from Russia in May 2022 has increased the price of electricity in Finland by approximately 4-5 EUR / MWh; the imported Russian electricity was relatively cheap, being produced in coal-fired power stations not subject to emissions pricing.

Following a sharp fall in the early 1990s, GDP per capita (at PPP exchange rates) increased to around 80% of the US level (a proxy for the population-weighted upper half of the OECD) in the late 2000s, where it remains today (Figure 1.6 and Figure 1.7). This increase was entirely explained by faster productivity growth in Finland than the United States, which lifted Finnish productivity to a little over 90% of the US level in recent years. GDP per capita and labour productivity have remained around 10% below the Nordic (Denmark, Finland, Norway and Sweden here and in the rest of the *Survey*) average in recent decades. High skills shortages, low investment and resource misallocation have prevented Finland from closing this productivity gap. Annual hours per worker and the share of the working-age population in the total population are higher in Finland than the Nordic average, pushing up GDP per capita relative the Nordic average, but the employment rate is lower, with the opposite effect (Figure 1.8). Key reforms and policy announcements since the 2020 *Survey* are dominated by labour market reforms aimed at reducing unemployment and increasing the employment rate (Box 1.3).





1. At current PPP exchange rates.

2. The Nordic average is population weighted.

Source: OECD (2022), Economic Outlook (database).

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Figure 1.7. GDP per capita and labour productivity are below the Nordic average

Source: OECD (2022), National Accounts (database).

StatLink ms https://stat.link/0g8k6o

Population ageing weighs on long-term growth prospects. In the OECD's latest long-term projection, the combined effects of slowing growth in the employment rate and a falling working-age-to-population ratio reduce the growth in potential output per capita from around 1.3% in the mid-2030s to 1.1% from the late 2040s onwards (Figure 1.9). These rates are close to those projected by the Bank of Finland (in the baseline scenario, falling from 1.3% in the mid-2030s to 1.0% in the 2050s) but lower than projected by the Ministry of Finance (rising from 1.4% in the 2030s to 1.6% in the 2050s), which assumes higher labour productivity growth than either the OECD or the Bank of Finland.



Figure 1.8. Hours per worker are higher than the Nordic average and demographics are more favourable, but the employment rate is lower

Source: OECD (2022), Economic Outlook (database).

Finland has reduced gross greenhouse gas (GHG) emissions by 33% since 1990 compared with an OECD average of 6%, to per capita levels that are 18% below the OECD average, and further substantial reductions are in prospect (Figure 1.10). It achieved its 2020 EU effort-sharing abatement target (covering non-EU Emission-Trading-Scheme sectors and excluding the forestry and other land use sectors) of 16% of 2005 emissions but faces more ambitious abatement targets over coming decades. A new Climate Change Act came into force in 2022 that stipulates that Finland must meet its international abatement

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obligations – currently, a 50% reduction in EU effort-sharing sector emissions from the 2005 level by 2030, which corresponds to a 39% reduction from the 2020 level (28 Mt CO₂-eq.), to which will soon be added Finland's share (17 Mt CO₂-eq.) of the EU forestry and other land-use sink to be reached by 2030 - and its carbon neutral target (i.e., net zero emissions) by 2035. While Finland is almost on track to meet the 2030 gross emissions effort-sharing target - the Climate Change Panel (CCP) judges that only modest further measures (1 Mt CO₂-eq.) are needed to meet this target – substantial increases in Finland's forestry and other land-use sink from the current level (minus 2 Mt CO₂-eq.) will be needed to meet its targets. There is scope to reduce abatement costs in effort-sharing sectors by reducing the biofuels mandate to the minimum level required by the European Union and compensating by aligning the carbon price used to calculate carbon tax rates on heating fuels with that used for transport, subjecting heat combustion using peat to the same tax regime as other fossil fuels and, if necessary, increasing the carbon price used to calculate carbon tax rates. Russia's war against Ukraine and the ensuing energy crisis have made the energy transition from fossil fuels to renewables and nuclear power that is necessary to meet GHG emissions abatement objectives an imperative for energy security.

Box 1.3. Key reforms and policy announcements since the 2020 Survey

Labour market

- The government has implemented and announced numerous reforms that contribute towards achieving its goal of increasing employment by 80 000 by the end of the decade and, in the process, reducing unemployment and the structural budget deficit. The most important such reforms are:
 - Increasing the age of eligibility to extended unemployment benefits for unemployed older workers (known as the 'unemployment tunnel' to early retirement) from 61 to 62 for persons born in 1962 or later.
 - Closing entry to extended unemployment benefits by 2025, which will entail abolition of the scheme by 2027 when the last entrants reach 65, the maximum age for receiving the benefit.
 - Introduction of the Nordic labour services model in May 2022. It provides job seekers with intensive public employment service contact from the beginning of their unemployment spell and gives them more support for job search than under the former system.
 - Transferring employment and economic development services to municipalities in 2024 to improve the quality of these services and accelerate employment of job seekers. The new funding model will encourage municipalities to develop and offer efficient services.
- Parental leave has been reformed, with effect from September 2022, to encourage fathers to take a greater share of parental leave, thereby reducing the career development penalty for mothers and hence the gender wage gap.
- The extension of compulsory education to 18 years of age was implemented in 2021.

Innovation

- The government has announced its intention to increase R&D spending to 4% of GDP by 2030, of which one third would be public R&D spending.
- It has also announced a scheme to accelerate immigration of high-skilled workers in certain professions.

COVID-19

 In September 2021, the Government adopted a revised hybrid strategy that aims to lift restrictions imposed due to the pandemic, while ensuring that the healthcare system does not become overburdened and that the epidemic does not become uncontrolled. Although restrictions on hospitality and leisure were maintained during the surge of the Omicron variant, all remaining restrictions on businesses were lifted in March.

National defence and Russia's war against Ukraine

- As a result of Russia's war against Ukraine, Finland applied to join NATO in May 2022.
- In 2021, the government ordered new F35A fighter jets for EUR 10 billion. These purchases will
 increase the budget deficit from 2025 to 2030, when the planes are delivered.
- Measures taken since the war began to strengthen defence and assist Ukrainian refugees increase annual government expenditure by 0.1-0.3% of GDP; in all, measures taken in response to the war contribute 0.8% of GDP to the structural deficit this year and next.

Macroprudential policy

• To curb rising household indebtedness, the Board of the Finnish Financial Supervisory Authority (FIN-FSA) returned loan-to-value restrictions for non-first home buyers to the pre-pandemic level (85%) in October 2021 (the limit for first home buyers remains at 95%). In June 2022, the government announced its intention to limit the maximum maturity of housing and housing company loans to 30 years, reduce the maximum amount housing companies can borrow for new construction to 60% of the unencumbered price of the flats to be sold and to require amortisation of such loans to begin during the first five years, all with effect from July 2023. Moreover, the Board of the FIN-FSA increased the macroprudential buffer requirements by 0.5 percentage point for the two largest other systematically important (O-SII) credit institutions in June 2021.

Climate change

A new Climate Change Act came into force in July 2022. It stipulates that Finland must meet its international abatement obligations and its carbon neutral target (net zero emissions) for 2035. In addition to the net zero target, the Act includes abatement targets for 2030, 2040 and 2050, a land-use-sector strategy and targets to increase carbon sinks.



Figure 1.9. Population ageing will slow growth in GDP per capita from the 2030s

Source: OECD, Economic Outlook 109, Long-term projections.

Note: Five-year averages.

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Figure 1.10. Greenhouse gas emissions are projected to decline substantially



Gross greenhouse gas emissions with existing (WEM) and additional (WAM) measures

Note: The 'with existing measures' (WEM) scenario includes climate and energy measures implemented by 31 December 2019. Measures approved by the government after 1 January 2020 are included in the 'with additional measures' (WAM) scenario. For more details on the two scenarios, see (Honkatukia et al., 2021_[2]). Source: (Honkatukia et al., 2021_[2]).

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Against this background, the key messages of this Economic Survey are that:

- To close the gap in GDP per capita with the other Nordic countries, productivity growth must increase, especially by boosting innovation, and the employment rate rise, notably for older workers. Addressing the structural shortage of skilled workers through tertiary education and migration reforms is critical for strengthening productivity growth.
- Fiscal consolidation is required to stabilise the government debt-to-GDP ratio in the long run. Regular comprehensive expenditure reviews would help to identify savings. The healthcare and long-term-care reform will contribute to putting public finances on a sustainable path if counties' incentives to improve efficiency are strong enough.
- Further measures are needed to improve the efficiency with which Finland's greenhouse gas
 emissions abatement objectives are achieved and to increase the forestry and other land-use
 sink.

The Finnish economy recovered quickly from the COVID-19 shock, but now faces deteriorating global conditions

Finland enjoyed a quick recovery in 2020-21 from the COVID-19 shock. Output and the output gap had returned to the pre-COVID level by the second quarter of 2021 and the first quarter of 2022, respectively (Figure 1.11). With a rapidly increasing share of the population vaccinated (Figure 1.12, Panel A), mobility strongly rebounded during the second quarter of 2021 (Figure 1.13), regaining pre-pandemic levels. A substantial easing in the stringency of containment measures also began at this time (Box 1.4). These developments paved the way for private consumption expenditure to recover, especially in service sectors that had been most adversely affected by the pandemic, notably hospitality and leisure. With similar

developments in Finland's export markets, exports also rebounded. However, with the rest of the world also emerging from the pandemic, energy prices began to rise markedly in late 2021, aggravating the increases in inflation through 2021 caused by strong demand but still disrupted supply, notably of services and of goods that depend on global supply chains (Figure 1.14).



Figure 1.11. The economy recovered quickly from the COVID-19 shock but since has been weighed down by deteriorating global conditions

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Figure 1.12. Vaccinations and less virulent COVID-19 variants have limited serious case numbers



B. The number of Covid cases



Source: Finnish Institute for Health and Welfare; Statistics Finland.

StatLink ms https://stat.link/hcslx5



Figure 1.13. Mobility was not much affected by the Omicron variant in early 2022

Note: The Oxford Government Response Stringency Index captures the strictness of 'lockdown style' policies that primarily restrict people's behaviour. It is a composite measure based on nine response indicators including school closures, workplace closures, and travel bans, rescaled to a value from 0 to 100 (100 = strictest response). For more information, see: https://www.bsg.ox.ac.uk/research/research-projects/coronavirusgovernment-response-tracker#data. Mobility change is a comparison relative to a baseline day before the pandemic outbreak. Baseline days represent a normal value for that day of the week, given as median value over the five-week period from January 3rd to February 6th, 2020.

Source: Google LLC, Google COVID-19 Community Mobility Reports, https://www.google.com/covid19/mobility/; Hale, T., S. Webster, A. Petherick, T. Phillips and B. Kira (2020), Oxford COVID-19 Government Response Tracker, Blavatnik School of Government.

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Figure 1.14. Inflation has soared

Source: Statistics Finland; OECD (2022), Economic Outlook (database).

StatLink ms https://stat.link/lx3yoh

Box 1.4. Finland's COVID-19 strategy

Finland's strategy in response to the Covid-19 pandemic can be divided into four phases:

- *Early strategy*: in the first stage of the pandemic, policy measures were based on a precautionary principle owing to the enormous uncertainties surrounding the virus. The objective was to reduce pressure on the healthcare system and gain time to be able to properly assess future scenarios. To this end, Finland undertook unprecedented control measures to limit social contact.
- Pre-vaccination intermediate strategy: after the immediate onset of the pandemic, the strategic objective shifted slightly. Minimizing the number of severe cases and deaths remained the overarching objective, but at the same time society was allowed to function more normally than in the initial phase. This strategy hinged on the effective use of epidemiological data, which allowed for flexible control measures.
- Vaccination scale-up intermediate strategy: with vaccines developed, Finland proceeded to
 vaccinating its population as quickly as possible. The vaccination order was based on age and
 underlying health condition. Restrictions on social contact remained until vaccination coverage
 was so high that control measures could be gradually phased out.
- Strategy since March 2022: with vaccinations progressing steadily, the final restrictions were lifted in the summer of 2022. The aim now is to keep society as open as possible and to support the post-pandemic economic recovery. New restrictions are to be avoided, and if re-imposed, they should be as limited and local as possible. At the same time, the Ministry of Social Affairs and Health is monitoring the pandemic closely and the distribution of a fourth vaccination dose has been expanded to mitigate a potential resurgence in the winter season. The government has also submitted legislative proposals that would make it possible to swiftly re-impose restrictions if need be. Improving the resilience of the healthcare system is key to avoid new widespread restrictions in the future.

Figure 1.15. Finland had relatively few ICU beds before the pandemic



Despite a low COVID-related death toll compared with other OECD countries and high vaccination coverage (87% of the adult population had received at least two doses by November 2022), the pandemic highlighted vulnerabilities in the Finnish hospital system. In the early stages of the pandemic, non-urgent social welfare and healthcare services had to be reduced owing to staff shortages. As the pandemic dragged on, the lack of psychiatrists, psychologists, nurses and home care-personnel hampered the availability of mental care and home-care services. The relatively slow start to Finland's vaccine rollout can also in part be explained by lack of vaccination personnel in primary health care. The pandemic also put strain on intensive care-unit (ICU) beds, the supply of which was relatively low by OECD comparison (Figure 1.15). To increase ICU capacity, hospitals had to convert operation theatres and recovery areas. Finland's fragmented healthcare system, where services are in large part financed and organised by municipalities, might also have made managing the pandemic more complicated. The healthcare- and social-care reform should help to address this problem by streamlining the healthcare system. Healthcare, social care and rescue services will be transferred from municipalities to 21 larger wellbeing services counties from the beginning of 2023. The counties will be allowed to collect patient fees, but the funding will mainly be needs-based and come from central government.

There was an upsurge in serious COVID-19 cases in early 2022 but it had only minor economic effects and receded swiftly in April (Figure 1.12, Panel B). COVID-19 is not expected to be a significant drag on the economy this year. Although restrictions on hospitality and leisure were maintained during the surge of the Omicron variant, all remaining restrictions on businesses were lifted in March. However, there is a risk that restrictions may be imposed again if the number of COVID-19 cases surges and consequently threatens to overburden the healthcare system.

Russia's war against Ukraine caused further large increases in energy and food prices, which rose by 32% and 13%, respectively, in the year to the third quarter of 2022 and together accounted for around one half of HICP inflation of 8.2% in this period (Figure 1.14), the highest rate since the first quarter of 1991, when this series began. Core HICP inflation increased to 4.2% in the year to the third quarter of 2022 as higher energy and food prices fed into other HICP components. Despite falling real wages (Figure 1.14), private consumption increased sharply during the first half of 2022, underpinning strong economic growth, as households drew down savings accumulated during the pandemic. Wage growth is projected to rise to an annual rate of 4% in 2023-24, which would still entail a significant decline in real wage rates since 2021, as is to be expected in a country that has experienced a fall in its terms of trade. Russia's war against Ukraine has also eroded consumer confidence, which has fallen to the lowest level since the series began in 1995, and business confidence, portending further weakness in consumption and investment expenditure (Figure 1.16). Exports fell sharply in the first half of 2022, reflecting normalisation following a major ship delivery in late 2021, a decline in telecommunications, data processing and information services exports, a downturn in Finland's main export markets and a fall in exports to Russia.

Finland enjoyed a strong labour market recovery from the COVID-19 shock until the second quarter of 2022. The employment- and unemployment rates regained pre-pandemic levels by mid-2021 and early 2022, respectively (Figure 1.17, Panel A), posting their best performances since 1987 and 2008, respectively. The 2017 pension reform (see below) has also contributed significantly to the increases in the employment- and participation rates by encouraging older workers to delay retirement. The participation- and employment rates of the population aged 55-64 years increased by around 5 percentage points from mid-2020 to mid-2022, reaching 76% and 70%, respectively, far above pre-pandemic readings. The long-term unemployment rate began to fall in late 2021 but, at 1.6% in mid-2022, remains higher than before the pandemic. The large increase following the pandemic partly reflects the greater impact it had on sectors (such as hospitality) that are relatively intensive in workers (low skilled, young) who typically experience greater labour-market difficulties than others. The increase (in terms of registrations) was much greater for foreign-born workers (120%) than for the native born (66%). As is usual during a labour market

recovery, the decline in long-term unemployment lags that in unemployment. The temporary layoff (i.e., furlough) scheme, which entails a temporary interruption of work and payment of wages while other aspects of the employment contract remain in force, attenuated the labour market impact of the pandemic and laid the ground for a rapid return to normal by limiting hysteresis effects. By late 2022, the number of furloughed workers (classified as being employed in labour market statistics) had fallen to pre-pandemic levels, far below the levels reached in 2020 (Figure 1.17, Panel B).



Figure 1.16. Consumer and business confidence have fallen

Source: European Commission.

StatLink msp https://stat.link/w6gpl9

Figure 1.17. The labour market has recovered swiftly

Employment- and unemployment rates for the population aged 15-74, seasonally adjusted



Source: Statistics Finland; Eurostat; OECD (2022), Economic Outlook (database).

StatLink and https://stat.link/m2wtgb

Labour market tightness (vacancies relative to unemployment) has increased markedly recently and there appears to have been an upward shift in the Beveridge curve (Figure 1.18, Panel A). These developments are consistent with firm surveys that report a lack of gualified labour and difficulties to fill open vacancies (Figure 1.18, Panel B). Given the fast recovery and rapid increase in employment, part of the mismatch may be temporary, reflecting frictions in filling jobs. Such mismatch should diminish as growth in labour demand slows. Nevertheless, the upward shift in the Beveridge curve over many years suggests that mismatches are largely structural. Labour shortages are most apparent in public administration, education, human health and social work activities, with shortages having grown most for human health and social work activities. These shortages of gualified labour in non-cyclical professions are likely to persist even as the economy slows. Reducing such mismatch is likely to require training of workers and/or relaxation of skill requirements in jobs as well as stronger incentives for workers, unions and firms to compromise (to improve match acceptance rates). Despite tight labour market conditions, nominal wage growth has remained subdued to date, lagging far behind inflation (see Figure 1.14). Collective agreements concluded to date point to wage increases of around 2.6% in 2022, slightly higher than in 2021. However, municipal workers and nurses recently negotiated a premium over private-sector wage increases ('the general line'). which could weaken wage coordination in the Finnish system, which is already less formal than in Nordic peers, resulting in higher future wage increases.

The economy is set to stall in 2023 but GDP growth is projected to recover to 1.1% in 2024, with the negative output gap widening to 2.7% of potential GDP by 2024 (Table 1.1). Consumption will weaken in response to falling real wages but subsequently recover as wages rise. Export growth will decline markedly with export markets, which are being hit by the large reduction in gas supplies from Russia, but pick up as these energy sources are replaced and export markets recover. Despite support from the EU Recovery and Resilience Facility (RRF) (Box 1.5), business investment is projected to remain weak through 2023 owing to the economic downturn and more uncertain economic outlook caused by Russia's war against Ukraine but to strengthen in 2024 as the global outlook improves. The unemployment rate should peak at around 8% and only fall slightly by the end of 2024. Inflation will fall to 3.1% in 2024, when the energy shock will have passed.



Figure 1.18. Job matching has deteriorated and vacancies have become more difficult to fill

Note: Due to a methodology change in the Labour Force Survey (LFS), data on the active population only go back to 2009. For 1989-2008, data from the old LFS have been used to calculate the vacancy rate. Hard-to-fill vacancies are open job vacancies during the reference period that the employer finds hard to fill.

Source: Statistics Finland; OECD, Short-Term Labour Market Statistics (database).

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Box 1.5. The Recovery and Resilience Facility is financing environmental, human capital and digital investments

To support the post-pandemic economic recovery in Europe, the European Union launched the Next Generation EU recovery package. The largest part of the package is the Recovery and Resilience Facility (RRF), which consists of loans and grants amounting to EUR 723.8 billion. RRF funding is allocated based on member countries' population, GDP and unemployment rate, as well as on how hard the economy was hit by the pandemic. Finland's share of RRF funding was originally estimated to EUR 2.1 billion but has since been lowered to EUR 1.8 billion as the Finnish economy has fared better than forecast. Finland has included most of its RRF revenue and expenditure in the budgets for 2021-23. When preparing its Recovery and Resilience Plan, Finland concentrated on a few major packages rather than on distributing resources to many minor projects with smaller impact. The Recovery and Resilience Plan is centred on four key elements:

- Green transition: EUR 695 million has been earmarked for investments that will help Finland reach its target of carbon neutrality in 2035. The investments focus on producing and distributing clean energy, such as solar power, offshore wind power, biogas and waste heat recovery, but there is also support for industrial circular economy solutions and for green innovation, for example in hydrogen technology. There are also efforts to reduce the climate impact in the construction sector.
- Digitalisation: investments in digitalisation include the Digirail project, expanding high-speed internet connection to areas not served by market actors and support for cutting-edge technologies in AI, 6G networks, quantum computing and microelectronics. The Digirail project seeks to make rail transport safer and more flexible by leveraging digital technology. Making travel and goods transport by rail more attractive will also support climate objectives. Improving digital infrastructure and boosting the development of new technologies will benefit citizens and businesses alike, as it generates new job opportunities and facilitates remote work.
- Employment and skills: Investments aim to increase the number of student places at higher education institutions and to enhance digital learning, enabling location-independent study. Public employment services will be digitalised, work- and education-based immigration encouraged and services directed at youth and those with impaired capacity for work. Funding has also been targeted at the tourism and cultural sectors, which were hit hard by the pandemic. More specifically, financial support will be available for measures enhancing export opportunities and thus resilience to future crises.
- Healthcare and social services: Several challenges related to the availability and cost
 effectiveness of the fragmented social welfare and healthcare services are addressed. The
 objective is to enhance access to health and social services across the country and remove the
 backlog in the provision of services related to the COVID-19 pandemic. RRP will contribute to
 the implementation of the seven-day care guarantee from the current three-month deadline. A
 wide range of digital innovations in the social and healthcare sector are promoted to increase
 resource efficiency, support preventive services, enable the sharing of expertise between
 regions and service providers and strengthen the role of customers.

Source: Ministry of Finance.

Table 1.1. Macroeconomic indicators and projections

	2018	2019	2020	2021	2022	2023	2024
	Current prices (EUR billion)						
GDP at market prices	233.5	1.2	-2.2	3.0	2.2	-0.3	1.1
Private consumption	123.9	0.7	-4.0	3.7	2.3	-0.6	1.4
Government consumption	53.5	2.0	0.3	2.9	2.8	-0.3	0.1
Gross fixed capital formation	56.2	-1.5	-0.9	1.5	3.0	-0.7	0.2
Final domestic demand	233.6	0.5	-2.3	2.9	2.6	-0.6	0.8
Stockbuilding ¹	0.5	-0.9	0.2	-0.1	3.7	0.0	0.0
Total domestic demand	236.4	-0.3	-1.9	3.0	6.3	-0.6	0.7
Exports of goods and services	89.8	6.7	-6.8	5.4	-0.5	1.9	3.1
Imports of goods and services	92.7	2.4	-6.0	6.0	9.0	1.2	2.3
Net exports ¹	-1.6	1.6	-0.3	-0.2	-3.7	0.3	0.3
Other indicators (growth rates, unless specified)							
Potential GDP		1.2	1.3	1.3	1.0	0.8	0.7
Output gap ²		-1.2	-4.6	-3.0	-1.9	-3.0	-2.7
Employment		1.1	-1.5	2.3	2.3	-0.6	0.2
Employment rate (% of population aged 15-74)		64.8	63.5	65.6	67.4	67.2	67.6
Unemployment rate (% of labour force, 15-74)		6.7	7.8	7.6	7.0	7.9	7.8
GDP deflator		1.5	1.5	2.5	6.0	4.7	3.1
Terms of trade		-0.5	1.1	0.5	2.2	0.1	0.0
Harmonised index of consumer prices		1.1	0.4	2.1	7.0	5.3	3.1
Harmonised index of core inflation ³		0.7	0.5	1.2	3.6	4.3	3.1
Household saving ratio, net (% of disposable income)		0.4	4.7	2.0	-1.4	-1.2	-1.3
General government financial balance (% of GDP)		-0.9	-5.5	-2.7	-2.5	-3.9	-3.6
General government cyclically-adjusted balance ²		-0.2	-2.6	-0.8	-1.4	-2.1	-1.9
General government underlying primary balance ²		-0.1	-2.5	-0.9	-1.6	-2.3	-2.2
General government gross debt (% of GDP) ^₄		78.4	90.8	85.0	84.9	87.2	88.8
General government net debt (% of GDP)		-62.7	-64.1	-72.4	-72.6	-70.3	-68.6
General government debt, Maastricht definition (% of GDP)		64.9	74.8	72.4	72.2	74.5	76.2
Current account balance (% of GDP)		-0.3	0.7	0.6	-2.6	-2.2	-1.9
Short-term interest rate		-0.4	-0.4	-0.5	0.5	3.8	3.9
Long-term interest rate		0.1	-0.2	-0.1	1.9	5.1	5.0

Annual percentage changes unless specified, volume (2009/10 prices)

 Contribution to changes in real GDP; 2. As a percentage of potential GDP; 3. Harmonised index of consumer prices excluding food, energy, alcohol and tobacco; 4. National Accounts basis excluding unfunded liabilities of government employee pension funds. Source: OECD (2022), <u>Economic Outlook</u> (database).

Key downside risks are that Russia's war against Ukraine is more protracted than expected and that Russia cuts off gas supplies to more EU countries by end-2022, which would prevent the rebuilding of European gas stocks during summer 2023 and result in shortages during the winter of 2023-24 (tail-risk events that could entail major changes to the outlook are summarised in Table 1.2). These developments would increase energy prices and inflation and reduce industrial production in Finland's main trading partners, notably Germany, with adverse ramifications for economic activity and employment in Finland. A more protracted war would increase uncertainty about the economic outlook, reducing business investment. Foreign investors could demand a premium on returns on Finnish investments to compensate for risks arising from Finland's geographical proximity to Russia. There is also the risk that tightening global financial conditions could depress the housing market and consumption and investment. Banks' high dependence on wholesale funding and high exposure to real estate lending could aggravate the problem. On the upside, private investments catalysed by the RRF could be higher than projected.

Table 1.2. Events that could entail major changes to the outlook

Shock	Possible impact
Russia escalates its war against Ukraine, leading to a more protracted conflict.	A deeper, more drawn-out conflict would heighten the pressure on those of Finland's trade partners that have not been able to adapt their energy infrastructure.
Geopolitical tensions rise, resulting in sanctions and countersanctions that drastically reduce trade between China and the EU and North America.	The global economy would fall into a recession and would face severe supply chain disruptions, depressing economic activity and increasing inflation in Finland and other advanced economies.
A new, more virulent coronavirus variant arrives that is resistant to existing vaccines.	Economic activity would fall as people avoid activities that put them at risk and/or are restricted by containment measures to avoid intensive care facilities becoming overwhelmed.

Macroeconomic policies are becoming less expansionary

Monetary policy is becoming less accommodative

Monetary conditions have been highly accommodative in recent years. European Central Bank (ECB) policy rates on the main refinancing operations, the marginal lending facility and the deposit facility were cut to 0.00%, 0.25% and -0.50% in September 2019 and remained at these levels until July 2022, when the ECB increased them by 50 basis points. The ECB increased these rates by a further 75 basis points in both September and November 2022 and indicated that it expects to raise rates further over the coming several meetings of the Governing Council to dampen demand and guard against the risk of a persistent upward shift in inflation expectations. Quantitative easing helped to depress Finnish long-term government bond yields, which were negative most of the time in 2020-21. Long-term government bond rates have increased markedly since late 2021, mainly reflecting the increase in global rates but also Russia's war against Ukraine and the flight to safe havens during uncertain times, which have increased the risk premium (spread) over German rates (Figure 1.19).



Figure 1.19. Long-term government bond rates and the spread over German rates have increased

Source: OECD, Monthly Monetary and Financial Statistics (database).

StatLink msp https://stat.link/q2nmo7

Macroprudential and financial policies should be tightened to contain financial stability risks

Russia's war against Ukraine has had little direct effect on Finnish financial institutions. They had low exposures to Russia at the onset of the war - claims on Russian entities only amounted to 0.1%, 0.3% and 0.4%, respectively, of banks', insurance companies' and investment funds' assets and have continued to decrease – and indirect exposures were moderate - about one quarter of loans to non-financial corporations (NFCs) were to vulnerable sectors that were energy intensive or had strong connections to Russia via trade links (i.e., more than a 5% share of exports or imports). The stock and bond prices of a number of large firms with significant exposure to Russia – fell sharply at the onset of the war, increasing funding costs, but have since been relatively stable. Fortum (BBB, 51% government owned), which had a EUR 5.5 billion exposure to Russia before the war (reduced to EUR 3.3 billion by 30 September 2022) and held a 76% stake in Uniper, the German company developing the North Stream II gas pipeline, experienced large falls in its share price until Uniper's divestment to the German government in September 2022. Increased collateral requirements on energy derivatives contracts have dramatically increased liquidity requirements for energy companies, including Fortum. To ease this liquidity stress, the Finnish and Swedish governments have committed to provide significant liquidity support to energy companies.

In addition to increasing the risk of loans to companies in vulnerable sectors, Russia's war against Ukraine has adversely affected the operating environment for Finnish financial institutions by increasing commodity prices and disrupting energy supplies in Finland and its main trading partners, reducing economic growth, and increasing Finland country risk (see above) and the risk of cyber-attacks. To minimise potential disruption from cyber-attacks, a national backup system for the payments infrastructure has been created.

Finnish financial institutions are well capitalised (Figure 1.20, Panel A), increasing their resilience to cope with structural vulnerabilities, notably high household indebtedness (three guarters of which is housing loans including housing company loans) (Figure 1.21, Panel A) and large housing loans with long maturities; housing company loans on behalf of households grew by 75% in the five years to 2022 Q1 and account for 80% of total housing company loans. Households are vulnerable to rising interest rates as over 90% of housing loan rates are linked to Euribor, typically for one year, although 28% of new loans by value in recent years have been hedged against interest-rate risk. On the other hand, housing affordability has not deteriorated over the past decade (Figure 1.21, Panel B) and households' interest expenditure has fallen as a share of net disposable income (Figure 1.21, Panel C). Housing loans account for 40% of loans granted to households and non-monetary corporations resident in Finland. Finnish financial institutions also have large residential- and commercial real estate loan exposures in the other three Nordics. In all, residential- and commercial real-estate loans comprise 40% and 28%, respectively, of the loan stock, which is high by international comparison (Figure 1.20, Panel B). Other vulnerabilities are the banking system's substantial size (Figure 1.20, Panel C), concentration and interconnectedness and the high reliance on wholesale market funding (Figure 1.20, Panel D), making it vulnerable to market disruptions. Progressively introducing limits on wholesale funding as a share of total funding, as in New Zealand, would help to increase bank resilience to funding shocks.



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Figure 1.20. The banking system is well capitalised but with structural vulnerabilities



B. Real estate exposure, 2021Q4

D. Liquidity coverage ratio and market funding, 2021Q4



1. Return on equity. 2. Common equity tier 1 (CET1) capital relative to risk-weighted assets. 3. Tier 1 capital relative to assets. 4. Deposits and debt securities relative to total liabilities. 5. Liquidity buffer relative to net liquidity outflows over a 30-calendar day stress period. Note: First quarter data for Norway in Panel B. In Panel D, market funding data are from 2020 Q4. Source: European Central Bank and European Banking Authority.

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StatLink ms https://stat.link/x8fm27



Figure 1.21. Household indebtedness is high but interest expenditures are low and housing affordability has not deteriorated

2020 data for Japan, Mexico and the United States. Households include non-profit institutions serving households.
 Households excluding non-profit institutions serving households. The interest-to-income ratio has been calculated as total interest expenditure before FISIM allocation over a four-quarter moving average of net disposable income. No adjustment has been made for interest deduction. Source: OECD (2022), <u>Economic Outlook</u> (database); Statistics Finland.

StatLink ms https://stat.link/sd71m6

To curb rising household indebtedness, the Board of the Finnish Financial Supervisory Authority (FIN-FSA) returned loan-to-value (LTV) restrictions for non-first home buyers to the pre-pandemic level (85%) in October 2021 (the limit for first-home buyers remains at 95%). In June 2022, the government put forward its legal proposal to limit the maximum maturity of housing- and housing company loans to 30 years, reduce the maximum amount housing companies can borrow for new construction to 60% of the unencumbered price of the flats to be sold and to require amortisation of such loans to begin during the first five years, all with effect from July 2023. These measures, which reduce the risk of bank losses, should be complemented by debt-service-to-income (DSTI) or loan-to-income (LTI) restrictions, which reduce the risk of households not being able to service their mortgages. Fifteen OECD countries have de jure debtservicing restrictions and a further three have de jure loan-to-income restrictions (van Hoenselaar et al., 2021_[3]). Empirical evidence suggests that DSTI restrictions may be more effective than LTV restrictions in curbing credit growth (Cerutti, Claessens and Laeven, 2017[4]) (Claessens, Ghosh and Mihet, 2013[5]) (Poghosyan, 2020(6)). Hoenselaar et al. (2021(3)) document empirical studies that find that LTV and DSTI restrictions combined are effective in limiting the build-up in household credit. Nevertheless, the government chose not to give the FIN-FSA the power to introduce DSTI restrictions, contrary to the advice of the FIN-FSA, the Bank of Finland and the recommendation in the 2020 Survey (Table 1.3), owing to concerns that it may disproportionately affect first-home buyers. Such concerns could be eased by setting a higher DSTI cap for first-home buyers, as is already done for LTV restrictions in Finland. Even so, firsthome buyers would still likely be the most affected. On the other hand, their risk of default and the associated high personal costs would also be diminished. The Board of the FIN-FSA issued a non-binding recommendation on debt-servicing-to-income limits in June 2022 and will assess the need for a sectoral capital risk buffer for mortgages with high debt-to-income or debt-servicing-to-income ratios.

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Introduce a maximum debt-to-income ratio for household loans and a maturity limit for housing loans.	The government introduced a 30-year maturity limit for housing loans that will take effect from July 2023. The Board of the Finnish Financial Supervisory Authority (FIN-FSA) issued a non-binding recommendation on debt-servicing-to-income limits in June 2022 and will assess the need for a sectoral capital risk buffer for mortgages with high debt-to-income or debt-servicing-to-income ratios. In June 2022, the government chose not to introduce a debt-to-income or debt-servicing-to-income restriction out of concern that it could disproportionately affect first-home buyers.
The prudential supervisors should monitor the effects of looser capital adequacy, regulations and criteria for non-performing loans (NPLs) and collateral eligibility and tighten them as the economy recovers.	The FIN-FSA monitors these effects. The loosening in capital adequacy requirements and regulations and criteria for NPLs and collateral eligibility are still in force. A return to normal pillar 2 guidance and capital buffer requirements is expected by end-2022 at the earliest.

Table 1.3. Past recommendations on macroprudential policy and actions taken

Preferential tax treatment of owner-occupied housing and of rental housing financed by housing company loans also encourage the accumulation of housing debt. For owner-occupied housing, mortgage interest payments have been tax deductible and neither imputed rents nor capital gains are taxable. These tax advantages are capitalised into property prices, increasing the size of loans needed to buy property. This tax treatment will become less favourable from 2023, when mortgage interest will no longer be tax deductible. The government should consider going further by taxing capital gains on the principal residence unless they are re-invested in another principal residence within a certain time, as in the United States; the re-investment option avoids lock-in effects, which would be harmful to labour mobility and efficient resource allocation, but not eventual payment of the tax. For rental housing financed by housing company loans, the tax advantage over direct financing is that taxation can be deferred until shares in the housing company are sold. Housing companies take out loans for renovation and new construction using their real estate as collateral and then charge shareholders, who have occupancy rights to individual residential units in the company property, a monthly fee for all running costs and the amortisation of each owner's share of loan

repayments. These arrangements encourage investors in rental properties to purchase them through a housing company as the fee, which includes principal repayments, can be deducted from rental income whereas principal repayments on other loans cannot. If the deduction is taken against rental income, it cannot be taken again against capital gains when shares in the housing company are sold. Hence, the tax advantage is the ability to defer taxation until the shares are sold, the value of which will depend on interest rates. This tax advantage should be terminated, as recommended in the 2020 *Survey* (Table 1.4). Tax on transfers of shares in a housing company (2%) is also lower than on direct property transactions (4%). As property transfer taxes impose substantial welfare costs by distorting housing- and labour market decisions (Eerola et al., 2021[7]), these taxes should be replaced by taxes with lower efficiency costs, such as annual real estate taxes.

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Reduce the tax burden on labour.	No action taken. The tax burden on labour has increased since the government came into office in 2019.
Increase minimum- and maximum rates on recurrent taxes on immovable property, and better align the tax base with market valuations.	No action taken.
Broaden the consumption tax base and phase out reduced VAT rates.	No action taken.
Lower the normal interest rate used in the calculation of the unincorporated business taxation equity allowance.	No action taken.
Remove the preferential tax treatment on capital repayments of housing company loans for investors and align the stamp duty rate on direct property transactions with that on transfers of shares in housing companies.	No action taken.

Table 1.4. Past recommendations on tax reform and actions taken

Housing company loans are also associated with mispriced risks resulting from the cross-subsidisation of high-risk shareholders by others. This problem arises because such loans are mutually guaranteed by all shareholders: fee payment defaults by some shareholders must be paid by others should the company be unable to recover the fees in default by other means (such as selling the shares concerned or letting the defaulting shareholder's apartment), a fact that many shareholders are unaware of or not able to price. One solution could be to make insurance cover compulsory for unrecoverable fees in default – insurance companies would levy higher premiums on high-risk shareholders than others (much as banks charge higher interest rates on loans to high-risk borrowers than on loans to others).

A useful additional element in the Finnish system to be launched in 2024 is the positive credit register. The register gathers information on the credits issued to Finnish individuals as well as their current income. The register will have very wide coverage on the type of exposures: it will include mortgages, student loans, consumption loans, credit cards and bank accounts with a credit limit, vehicle loans, loans for an investment purpose, part payments and leasing contracts. In the second stage, at the end of 2025, loans granted for an individual's business operations will also be reported to the register. The positive credit register will improve lenders' ability to test the creditworthiness of loan applicants, provide a source of reliable information on the credit market and create new ways to monitor the financial market for the macroprudential authorities.

The Board of the FIN-FSA announced in June 2022 that the structural macroprudential buffer requirements for the two largest other systematically important credit institutions (O-SII) will be increased by 0.5 percentage point from 1 January 2023. This increase will strengthen these institutions' loss-absorption capacity, thereby reducing the probability of financial crises and their negative impacts on the real economy and on the operation of the financial system. So as not to distort competition, buffer requirements should be set with regard to structural vulnerabilities. Kiviniemi (2022_[8]) measures these by risk indicators capturing: the size of the banking sector; its concentration; the extent of cross-border activities; the concentration and financing structure of banks' credit portfolios; and household indebtedness. Finland has similar structural risk levels as the other Nordics and the Netherlands but somewhat lower structural

macroprudential buffers (Figure 1.22). The increase in buffer requirements will close the gap between Finland, on the one hand, and Denmark and the Netherlands, on the other, but not with Sweden and Norway. While the need to strengthen the resilience of the banking system remains, the gloomy and uncertain outlook for the economy and the financial system suggests any increases in the systematic risk buffer (SyRB) should be delayed so as not to have pro-cyclical effects.



Figure 1.22. Structural macroprudential buffers are smaller in Finland than in countries with similar structural risk levels

Note: For details on how the buffers and the composite indicator were constructed, see Bank of Finland Bulletin, 1/2022. Source: (Bank of Finland, 2022_[9]).

Legislation should also be changed to allow a positive neutral Countercyclical Capital Buffer (CCyB). As demonstrated by Covid-19 pandemic as well as more recently by Russia's war against Ukraine, large shocks outside the financial system may have cyclical effects on credit markets. In other words, there can be unexpected negative credit-cycle developments that are not preceded by a credit boom. The possibility of setting a positive rate for the CCyB even in the neutral credit market phase would allow macroprudential policymakers to address such developments.

The greatest macro-financial vulnerability is in the non-financial sector (Figure 1.23, Panel A), reflecting high levels of private bank- and household credit, both of which are far above the long-term average and are around 2007 levels (Figure 1.23, Panel B). Asset market vulnerability is also above the long-term average, albeit less so than non-financial sector vulnerability. The main factors contributing to asset market vulnerability are high real house prices, residential investment and house price-to-rent ratios. Financial-sector vulnerability is also above the long-term average, albeit less so than non-financial sector and asset market vulnerability is also above the long-term average, albeit less so than non-financial sector and asset market vulnerability is also above the long-term average, albeit less so than non-financial sector and asset market vulnerabilities, mainly owing to high housing loans, external bank debt and non-performing loans, all of which are equal to or greater than in 2007.

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Figure 1.23. High levels of private bank- and household credit are a major macro-financial risk



Index scale of -1 to 1 from lowest to greatest potential vulnerability, where 0 refers to long-term average

Note: Each aggregate macro-financial vulnerability indicator is calculated by aggregating (simple average) normalised individual indicators. Nonfinancial includes: private bank credit, household credit and corporate credit. Asset market includes real house prices, price-to-income ratio, price-to-rent ratio, residential investment and real stock prices. External position includes the current account (CA) balance as a percentage of GDP, export performance and real effective exchange rate based on relative unit labour costs. Fiscal includes the difference between the interest rate on the government bonds and expected growth rate (r-g), government budget balance and government gross debt, both expressed as a percentage of GDP. Financial includes the share of non-performing loans in total loans, external bank debt as percentage of total banks' liabilities, banks' assets as share of GDP, and capital and reserves as a proportion of total liabilities (leverage ratio). Source: OECD Resilience Database.

StatLink ms https://stat.link/2w6u0x

Fiscal policy will be expansionary in 2023 but neutral in 2024

Following a marked fall in 2021 as the extent of COVID-19 support declined, the general government structural budget deficit is estimated to have increased by 0.6 percentage point to 1.4% of GDP in 2022, despite the termination of most remaining COVID-19 support measures, and is projected to rise to around 2% of GDP in 2023 and 2024 (Figure 1.24), with central and lower levels of government running structural deficits but pension funds a structural surplus of around 1% of GDP. Additional expenditures related to Russia's war against Ukraine contribute 0.8% of GDP to the structural deficit in 2022 and 2023 and somewhat less in 2024. These include increases in defence expenditure and refugee-related expenditures (0.1-0.3% of GDP annually); the government estimates that there will be 60 000 (1.1% of the total population) applications for temporary protection in 2022 from people fleeing Ukraine. The government has also announced budget measures amounting to EUR 1.7 billion (0.6% of GDP) to cushion the impact of higher energy prices, including a temporary reduction in the VAT rate on electricity from 24% to 10% over December 2022-April 2023 (EUR 209 million), targeted assistance to households over this period (EUR 600) and targeted measures focused on transport (EUR 900 million), including a temporary reduction in VAT on passenger transport services, that expire at the end of 2023. These measures, most of which are targeted and warranted, largely account for the expansionary fiscal stance in 2023. All war-related expenditure increases as well as investments that boost energy production and help harness new technologies replacing fossil fuels are excluded from the government's spending limits. The structural budget deficit over the projection period is around 1.8% of potential GDP higher than before the pandemic. General government gross debt (Maastricht definition) is projected to continue increasing, from 72% of GDP in 2021 to 76% in 2024.



Figure 1.24. The structural budget deficit remains relatively large

General government, % of GDP

42 |

1. Cyclically-adjusted net lending, per cent of potential GDP. Source: OECD (2022), <u>Economic Outlook</u> (database).

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Table 1.5. Past recommendations on fiscal policy and actions taken

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Stand ready to provide further fiscal stimulus in case the economic recovery is delayed.	This has occurred, largely through additional expenditures related to the COVID-19 pandemic and Russia's war against Ukraine.
Once the economic recovery is underway, implement consolidation measures, mainly by reducing expenditure, including on subsidies and tax expenditures, and also by increasing taxes that do not impose large economic distortions, such as VAT (broadening the standard-rate base) and recurrent real estate taxes.	Measures to reduce the structural budget deficit have largely focused on increasing employment and thereby increasing revenue and reducing transfers expenditure. No action has been taken on reducing subsidies and tax expenditures or on increasing taxes that do not impose large economic distortions.
Strengthen budget buffers.	No action taken.

Real public investment is projected to grow strongly in 2022 (8.5%) and 2023 (6.1%) and average around 4.5% of GDP (in current prices), which is much higher than the EU average (Ministry of Finance, 2022_[10]). In 2022, public investment will be boosted by efforts to improve Finland's security and to implement the green transition and to a lesser extent by projects financed by the EU's Recovery and Resilience Facility, partly offset by local government disposals of hospitals. Weakening local government finances and sharp price increases could, however, hamper civil engineering investments this year and next. In 2023, continued strong growth will be driven by central government measures to develop cybersecurity, national defence and border control but somewhat attenuated by the completion of transport infrastructure investments, the slowing of hospital construction and the ending of infrastructure subsidies. Civil engineering investments and other construction investments both account for close to 30% of public investments. Research and development investments account for just over 25% and machinery and equipment investments for just over 10% of the total. Public investment in housing construction has declined over the past decade, contributing to deteriorating rental housing affordability (OECD Directorate of Employment, Labour and Social Affairs, 2021_[11]).

General government contingent liabilities grew strongly in the past decade to 27.1% of GDP in 2020, the highest level in the European Union. Concentration of loan guarantees in a small number of sectors and enterprises increases risks for government finances. One half of the guarantees are for the shipbuilding

industry and their riskiness is likely to have increased owing to the pandemic. The Finnish Audit Office (2018_[12])notes that risk levels of contingent liabilities vary greatly and rightly stresses the need to limit the overall risk to which they expose government finances rather than to set numerical stock ceilings by instrument category. To control risks, the Audit Office considers that there must be good justification for increasing contingent liabilities, a comprehensive risk assessment should be made before making any commitments, regular reports on the risk position should be submitted, and that limitations of risk permitted would reduce total risk.

Restoring public finance sustainability

Age-related expenditures are projected to rise by only 4.5% of GDP between 2019 and 2070 (Table 1.6). Pension expenditures are projected to decline as a share of GDP until 2050 despite the age-dependency ratio increasing from 36.0% to 48.6% thanks to reforms that have greatly reduced the effects of rising life expectancy on expenditures (Box 1.6). However, pension expenditures will rise as a share of GDP in the subsequent two decades as a fall in fertility rates during the 2010s (Figure 1.26) filters through the population age structure, reducing the working-age population sooner than the population eligible for old-age pensions (on the assumption that the fertility rate remains at 1.5 over the projection period). Increases in contribution rates (currently 24.4%) to Finland's (earnings-related) pension system, which is financed from both assets accumulated in pension funds (for one-fifth of private-sector pension expenditure) and pay-as-you-go (PAYG) contributions, would be required from the 2040s to ensure that the pension system remains sustainable. Education expenditures will initially fall as a share of GDP owing to smaller cohorts of youth but are assumed to rise subsequently to prevent a decline in the stock of human capital while healthcare- and long-term-care expenditures rise markedly reflecting both population ageing and, for healthcare expenditure, excess cost growth (i.e., long-term growth in healthcare expenditures relative to GDP that is not related to demographics) (Table 1.7).

	2019	2030	2040	2050	2060	2070	2019 to 2070
Age-related expenditure		% GDP unless otherwise stated					
Pensions	13.3	13.3	12.4	12.2	13.0	13.8	0.5
Healthcare	6.8	7.1	7.3	7.4	7.6	7.7	0.9
Long-term care	2.0	2.7	3.5	4.0	4.5	5.3	3.3
Education	5.6	5.3	4.9	5.1	5.3	5.5	-0.1
Total	27.8	28.4	28.2	28.7	30.3	32.3	4.5
Participation rate ²	66.5	66.3	69.1	71.3	70.5	69.5	3.0
Old-age dependency ratio ³	36.0	42.9	45.1	48.6	54.1	59.2	21.7

Table 1.6. Pension reforms limit growth in age-related expenditures

1. Baseline scenario. Data for 2019 and projections thereafter. Inflation is 2% from 2028 onwards.

2. For the population aged 15-74.

3. Population aged 65 and over relative to the population aged 15-64, in per cent.

Source: (Bank of Finland, 2021_[13]).

Annual growth rates, %	2020-29	2030-39	2040-49	2050-59	2060-70
Potential output	1.2	1.2	0.5	0.5	0.5
Labour productivity	1.1	1.3	0.8	1.0	1.0
Hours worked	0.1	-0.1	-0.3	-0.5	-0.5
Human capital	1.3	0.6	0.1	0.0	0.0
Fixed capital	1.3	1.7	0.9	0.9	0.9
Implicit nominal interest rate on public debt	1.3	2.9	3.0	3.0	3.0
Non-interest property receipts (% of non-interest-bearing financial assets).	2.3	2.3	2.3	2.3	2.3
Real growth rate of non-interest property receipts	2.3	2.3	2.3	2.3	2.3
Government interest-bearing financial assets (% of GDP)	49	49	49	49	49

Table 1.7. Key assumptions underlying debt-ratio projections

Baseline scenario. Data until 2021 and projections thereafter. Inflation is 2% from 2028 onwards. 1.

Non-interest-bearing financial assets are shares and investments in mutual funds. Receipts from these investments were 2.3% of the value 2

of such investments in 2021, compared with an average of 2.9% since 2000. It is assumed that dividends grow at a real rate of 2.3% per year. This gives an approximate real return on equity investments of 4.6% and, with the risk-free real rate assumed to be 1%, an equity risk premium of 3.6% in the long run. 3.

Source: (Bank of Finland, 2021[14); OECD projections for implicit interest rates, return on equity investments (dividend yield and growth in dividends) and government financial assets.

Box 1.6. Pension reforms have reduced the effects of growing life expectancy on expenditures

The 2005 reform introduced the life-expectancy coefficient, which reduces pensions for each cohort born after 1947 such that growing life expectancy does not increase the present value of pensions at age 62 from the level in 2009. This reform also changed the income base for calculating pensions from the last 10 years of each employment contract to incomes over the entire work history. The 2017 reform raises the minimum retirement age gradually from 63 to 65 by 2025 and will link it to life expectancy from 2030 in such a way that the share of adult life spent in retirement remains constant. To help people make informed decisions about the timing of their retirement, a target retirement age is calculated for each cohort that corresponds to the age at which the pension increment from delaying retirement offsets the reduction from the life expectancy coefficient (Figure 1.25). However, people born after 1985 will not be able to avoid lower pensions because their target retirement age exceeds 70, the age limit for pension contributions. To give these people the opportunity of contributing longer to avoid these pension reductions, this age limit should be indexed to the target retirement age beyond 70; this would not affect the pension system's solvability as the extra contributions would offset the additional pension liabilities.



On unchanged policies (baseline scenario) and assuming that age-related expenditures grow in line with the projections in Table 1.6, the OECD projects that gross general government debt will increase from 72% of GDP in 2021 to 131% by 2070 and continue rising thereafter (Figure 1.27). This debt trajectory assumes that education expenditure volume per student increases from its present level to the level seen in the early 1990s. As a result, human capital stagnates from the late 2040s instead of declining (Table 1.7). With population ageing causing hours worked to decrease from the 2030s onwards, potential output growth is entirely driven by fixed capital, which is assumed to grow until the fixed capital to human capital ratio is the same as in the early 1990s. Potential growth stabilises at 0.5% from the 2040s onwards. In the reform scenario, where the innovation system becomes more effective and work-based immigration increases, gross general government debt rises to 114 % of GDP by 2070. If Finland reduces its structural budget deficit to the medium-term objective (MTO) of -0.5% of GDP by 2030, which is a legal obligation although not necessarily by 2030, and continuously takes consolidation measures to keep the structural deficit at this level, the debt ratio would increase from 72% of GDP currently to 99% by 2070. A more ambitious structural deficit objective would be required for long-term fiscal sustainability. Possible consolidation measures are discussed below.



Figure 1.26. The fertility rate¹ fell sharply over the past decade

1. The total fertility rate in a specific year is defined as the total number of children that would be born to each woman if she were to live to the end of her child-bearing years and give birth to children in alignment with the prevailing age-specific fertility rates. It is calculated by totalling the age-specific fertility rates in a given year. Source: Statistics Finland.

StatLink and https://stat.link/wkl91u

The government is committed to reducing the structural budget deficit mainly by increasing employment, which will reduce transfers expenditure and increase government revenue. It has set a target of increasing employment by 80 000 by the end of the decade. The Ministry of Finance estimates that the employment measures taken to date or planned could increase employment by around 40 000 (see below) and reduce the structural deficit by EUR 450 million (EUR 1 billion before taking into account associated increases in expenditure), far short of the EUR 1-2 billion (0.4-0.8% of GDP) assumed by the government. Taking into account these measures, the effects of the war and the measures taken in response and good employment outcomes, the Ministry of Finance estimates that the sustainability gap (an EU measure (S2 indicator) of the amount by which the structural balance would need to increase for the debt-to-GDP ratio to be stable in the long run on unchanged policies) is approximately 2.5% of GDP (Ministry of Finance, 2022_[10]), 0.5 percentage point less than at the time of the last *Survey*. The government has proposed further reforms to increase employment (see below) but for the time being there are no credible estimates of their effects.

Figure 1.27. Government debt would increase substantially under unchanged policies



Gross general government debt, % GDP

1. In the reform scenario, improvements in the innovation system increase the level of GDP by 3% over the baseline by 2050 and work-based immigration rises gradually from the current level (1 500 per annum) in 2030 to 7 500 per annum in 2050-70. In addition, fixed capital is assumed to grow faster (at 2% per year throughout the projection) than in the baseline scenario (0.9% per year from 2040 onwards). Higher growth in the fixed capital-to-labour ratio is the main factor increasing growth in labour productivity (to 1.4%) and output (to 1.1%) in the reform scenario. 2. In the MTO scenario, Finland continuously meets its medium-term budgetary objective of a structural financial balance of minus 0.5% of GDP from 2030. Source: OECD.

StatLink ms https://stat.link/gn76kw

The healthcare and social-care reform that will come into effect in January 2023 is expected to yield improvements in efficiency and slow growth in healthcare- and long-term care costs in the long run. The reform transfers responsibilities for the delivery of healthcare and social services, which amounted to EUR 19.2 billion (8% of GDP) in 2019, from municipalities to counties, as recommended in the 2020 OECD *Economic Survey* (Table 1.8). It is expected to increase efficiency by strengthening service coordination, providing scope for rationalisation of services and enhanced purchasing power and to improve equality of access to quality services. New funding arrangements provide incentives, albeit weak, for efficacy improvements. Apart from customer payments and fees, financing will be provided by central government to each county based on various factors, the most important of which is a county's estimated healthcare and social service needs. Starting in 2025, only 80% of the estimated increase in service needs will be compensated in advance, with all counties subsequently receiving the same percentage difference between imputed and realised costs at the national level. Counties unable to remain within their budget run the risk of being forced to merge with others.

Past OECD policy recommendations	Policy actions since the 2020 Economic Survey of Finland
(key ones in bold)	(December 2020)
Enact the social and healthcare reform before Parliament. Set numerical targets for fiscal savings to be achieved from these reforms to help the government plan reforms that maximise cost efficiency while ensuring equal access to quality services.	The social- and healthcare reform comes into effect from the beginning of 2023. While there are no numerical targets for fiscal savings, the reform is expected to generate them in the long term.
Rationalise the organisation of healthcare services to achieve a better balance between primary and specialised care.	This is an objective of the social care- and healthcare reform.

Table 1.8. Past recommendations on social and healthcare reform and actions taken

This reform is expected to slow growth in healthcare- and long-term care expenditures in the long run. In the short term, however, it creates additional costs. The Ministry of Social Affairs and Health projects that the net effect of the reform will be to increase annual budget costs relative to the baseline until 2030, with the largest increase (EUR 600 million, 0.2% of GDP) occurring in 2023, and to reduce them beyond 2031, with annual savings growing by EUR 200 million (in constant 2020 prices, 1% of annual expenditure) until 2035, the end of the projection period. Nevertheless, there is a risk that the steering and financing model does not lead to more efficient outcomes because the new organisations do not have strong incentives to implement measures that would lead to efficiency gains. Decentralising spending alone could lead to soft budget constraints and overspending by counties owing to the vertical fiscal imbalances in the system (Kortelainen and Lapointe, 2019[15]). Already, the counties claim that an additional EUR 1.5 billion of central government funding is needed for 2023, in part owing to the recently negotiated pay agreement with municipal workers and nurses that resulted in a sustained premium over wage increases in the private sector. In the short run, the situation requires close monitoring, and in the longer run incentives for counties to improve efficiency will need to be increased if they prove to be insufficient to meet reform objectives. The Ministry of Finance has incorporated the short-term budget effects of the reform but not the long-term effects as they are highly uncertain. The reform should be taken further by implementing payment models (accountable-care organisations and bundled payment models) that reward integrated service delivery and high-quality outcomes. Increases in productivity growth in this sector could have a major effect on the sustainability gap – the Ministry of Finance estimates that a 0.5% productivity growth rate would reduce the sustainability gap by 1.9% of GDP (Ministry of Finance, 2022[10]).

Finland last undertook a comprehensive spending review in 2015 that helped identify consolidation measures that would reduce public expenditures and increase revenues (tax expenditures are reviewed annually, as required by the EU). It should undertake another comprehensive spending review to identify consolidation measures to reduce the structural budget deficit to the MTO. Moreover, these spending reviews should be made regular and strengthened; Tryggvadottir (2022_[16]) outlines OECD best practices for spending reviews and the Netherlands and the United Kingdom provide some good-practice examples (Box 1.7). In this context, there may well be scope to reduce aid to companies that does not increase long-term productivity. Experts estimate that only just over 40% of direct state aid for companies directly promotes long-term productivity (Table 1.9). They also consider that most current tax benefits for companies do not promote long-term productivity. Of the 100 tax reliefs for companies considered in their study, only three were thought to have a positive effect on productivity. Broadening the consumption tax base and phasing out reduced VAT rates and increasing minimum- and maximum tax rates on immovable property and better aligning the tax base with market values, as recommended in past *Surveys* (Table 1.4), would also help to reduce the structural budget deficit to the MTO objective.

Box 1.7. Spending reviews help OECD governments identify efficiency gains

Spending reviews provide governments with means to support the sustainability of public finances through systematic analysis of existing expenditure. Governments utilise spending reviews to reallocate fiscal resources and help prioritise and control government expenditure. As such, they have become an increasingly important tool for budgetary governance in OECD countries

Spending reviews in the Netherlands and the United Kingdom

In the Netherlands, spending reviews are conducted both annually and periodically. The Ministry of Finance selects topics for the annual reviews, which often cover areas that face financial problems or are relevant to government priorities. Topics range from ministry-specific (e.g., healthcare innovation) to interdepartmental (such as social housing) or government-wide (e.g., subsidies). Prior to each electoral term, the Netherlands also conducts comprehensive reviews, which examine a broader share of the budget and cover substantial policy topics across major areas of spending. Comprehensive reviews are planned and conducted such that findings and recommendations are in place when a new

government takes over at the start of the subsequent electoral term. The spending reviews are carried out by non-political working groups consisting of high-level civil servants and external experts and are headed by an independent chairman. To promote fresh thinking, the working groups operate on a "nonveto principle", meaning that working group members may not block ideas from other members.

In the United Kingdom, spending reviews normally take place every two to four years, as part of the budget process. The spending reviews focus on the part of the department budget (roughly 50%) that is formally planned and not on recurrent demand-driven costs, such as pensions, welfare benefits and debt interest, although departments often look for ways to cut down on these expenditures to finance other programmes. The last spending review was launched in the autumn of 2021 and set departmental budgets for the period 2022/23 to 2024/25. Before drawing up the spending review, Treasury asked government departments to identify areas where they could achieve efficiency savings of 5%, which were then reviewed by Treasury before being included in the spending review.

The UK National Audit Office has identified the following factors as keys to finding and realizing efficiency gains in spending reviews:

- Going from annual to multi-year spending reviews has helped departments stick to plans stretching over more than one year, as the option of revisiting the budget for years two and three in the next spending review is no longer there. A longer time horizon also means a wider range of policy options for the government to consider, as some efficiency-enhancing measures could increase costs in the short term and require more than one year to be realized. Conversely, short-sighted efficiency gains might carry costs down the road.
- Departments should carefully consider what consequences efficiency plans could have for future resilience. Enhancing efficiency by cutting down on spare capacity, or the number of employees, could mean a greater risk of failing to meet objectives in unplanned or crisis situations, as made clear by the pandemic.
- Overoptimistic targets could lead not only to failure to deliver but also to lower service quality
 and the need for later funding injections. It is therefore important that departments estimate
 costs and benefits using data from similar projects and that efficiency plans are challenged by
 Treasury, especially the assumptions on potential savings accruing for other parts of
 government.
- Measuring and managing performance requires access to good data. Efficiency targets should be set up in a way that makes it clear when the outcome is achieved. Departments should also outline a counterfactual of what would happen without the launched programme and set up milestones, with clear thresholds for intervention, including the option to halt the programme.
- Spending reviews should also be an opportunity for departments to suggest measures, such as leadership incentives and staff training, which lead to continuous, incremental efficiency gains, and factor that into spending plans. If departments' efficiency plans depend on transformation programmes, it is imperative that the programme is not an aim in itself and that departments stop the programme if it becomes apparent that it fails to achieve greater efficiency.

Source: (UK National Audit Office, 2021[17]), (Tryggvadottir, 2022[18]).

Table 1.9. Most direct aid for companies does not increase long-term productivity

EUR millions, 2021

Sector	Promotes long-term productivity directly	Promotes long-term productivity indirectly	Does not promote long-term productivity	Total
Energy	164.2	5.6	415.3	585.1
RD&I, internationalisation and entrepreneurship	416.9	14.0	0.0	430.9
Employment and regional policy	0.0	3.0	180.8	183.8
Traffic and communication	50.2	13.0	99.7	162.9
Housing construction	0.0	0.0	146.3	146.3
Agriculture and forestry (article 107)	5.8	5.7	33.7	45.2
Environmental protection	0.0	1.5	13.7	15.2
Total	637.1	42.9	889.5	1569.4
% of total	40.6	2.7	56.7	100.0

Source: Ministry of Economic Affairs and Employment, Ministry of Finance and Ministry of the Environment (forthcoming).

Towards stronger and more sustainable economic growth

Enhancing productivity growth and improving resource allocation

Finland experienced fast productivity growth until the late 2000s, underpinned by the rapid expansion of the electronics sector, a strong innovation ecosystem and tertiary education reforms that boosted skills. This came to an end as the electronics sector underwent a significant adjustment triggered by the decline of Nokia's mobile phone business. Between 2010 and 2019, Finland's hourly labour productivity grew by only 0.5% per year - less than in many other OECD economies, notably Sweden and Denmark (Figure 1.28). Multifactor productivity, which reflects innovation and improvement in resource allocation, grew by 0.6% per year during this period, as opposed to 0.7% in Sweden or 1.2% in Denmark. The sluggish growth rate is attributable to Finland's weakened innovation ecosystem (Chapter 2) and deteriorating resource allocation as the weight of the economy shifted toward less productive sectors, namely services. In particular, labour productivity declined in services that use digital technologies intensively (Finnish Productivity Board, 2021[19]), which is striking given Finland's status as the front runner in the adoption of digital technologies (European Commission, 2022[20]). The lack of contributions from capital deepening and improvements in capital quality also weighed on labour productivity growth (Figure 1.28). Weak capital investment undermines Finland's competitiveness by reducing the scope for Finnish firms to deploy advanced technologies embodied in new equipment, for instance more energy efficient or less polluting production technologies that help the green transition. Finland's investment in ICT and intangible capital has also been subdued, preventing Finland from reaping the full benefits of its extensive digital adoption (Chapter 2).

Figure 1.28. Weak innovation and capital investment held back productivity growth

Average annual labour productivity growth, %, 2010-2019



Note: 2020 is excluded to abstract from the impact of the COVID-19 pandemic on the long-run estimates of productivity growth. Source: OECD (2021), Compendium of Productivity Indicators.

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Between 1998 and 2015, Finland's economy was characterised by low entry and exit rates compared with other advanced economies, with large firms employing a larger share of workers and start-ups and young firms comprising a relatively low share of microenterprises (OECD, $2020_{[21]}$). More recently, Finland has enjoyed relatively vigorous entrepreneurship (Figure 1.29). Finland also has a strong up or out dynamic, with microenterprises that survive more than five years achieving higher growth than in comparable economies (Economic Policy Council, $2022_{[22]}$). It also has been observed in the past that one half of new jobs were created by "gazelles", firms that account for only 6% of Finnish firms but grow by more than 20% annually in employment size (Virén, Vanhala and Nurmi, $2016_{[23]}$). The venture capital market is larger than in many OECD countries aside from the few countries with exceptionally large venture capital markets (the United States, Israel and Canada). Finland boasts a strong ecosystem of start-up finance supported by Slush, a company offering networking services matching entrepreneurs and investors, and Tesi, a state-owned investment company that boosted its investment in tech companies experiencing delays in fundraising during the pandemic through its Venture Bridge programme. According to the Finnish Venture Capital Association, investment in Finnish start-ups doubled in 2020 to EUR 921 million, and went on to reach EUR 1.2 billion in 2021. The large increases were driven by substantial inflows of foreign capital.

Rigorous competition enhances productivity growth through reallocation of labour and capital toward more productive firms. Although Finland's product markets are more concentrated than in comparable economies, Finnish firms are not extracting higher mark-ups (Economic Policy Council, 2022_[22]). High market concentration is also not the result of a handful of very productive firms capturing most of the markets. Productivity dispersion is actually smaller in Finland than in comparable economies and the extent to which more productive firms capture a larger market share (*i.e.*, allocative efficiency) is lower (Economic Policy Council, 2022_[22]). These observations, together with the vigorous market entry and growth of young firms seen above, suggest that Finland enjoys a healthy degree of competition. However, some regulatory barriers and skills bottlenecks are preventing productive Finnish firms from becoming even more productive and larger by investing more and attracting resources.



Figure 1.29. Entrepreneurship is relatively vigorous

Birth rate of enterprises with at least one employee¹, %, 2019

The birth rate is given by dividing the number of enterprise births in 2019 by the number of enterprises active in 2019.
 Note: Data refer to 2018 for Ireland and the United Kingdom.
 Source: OECD SDBS Business Demography Indicators (<u>database</u>).

StatLink ms https://stat.link/5p3osr

As described in the 2020 *Survey* (OECD, 2020_[24]), product market regulations overall are conducive to competition. Moreover, recent regulatory reforms in network sectors will enhance competition. For instance, the unbundling of the natural gas transmission network and the wholesale and retail trading of gas in 2020 opened the market to competition and created opportunities for Finnish gas companies to diversify their gas procurement away from Russia. Rail passenger transport, which was a state monopoly, has been opened to competition since 2021 in compliance with the 2016 EU-wide railways regulations package. Data management reform was undertaken in the electricity market in 2022, promoting competition (Table 1.10). Nevertheless, regulations continue to hinder competition in some sectors. For instance, the Finnish Competition and Consumer Authority (FCCA) found that restrictive regulations on the number of pharmacies in a given geographic area, the ownership of pharmacies' relatively high profit margins (Anttinen et al., 2020_[25]). The FCCA proposed a range of reforms including simplifying the licensing process for pharmacies and allowing the sales of non-prescription medicines outside pharmacies. While the financial regulatory framework enhances financial stability and investor protection, it may also hinder the development of new forms of finance for innovative and fast-growing companies.

Some labour market regulations in Finland are holding back resource reallocation toward productive firms. In Finland, it is relatively easy to lay off workers for economic reasons such as a decline in production (although they must be rehired first when the employer is once again recruiting, even in a different line of business), but much more difficult to do so for individual reasons. This often discourages productive firms from scaling up their operations as they cannot incur the risk of hiring personnel who lack the specific skillset required for their businesses and not being able to let them go. Such risk is also considered a barrier to investing in Finland by multinational enterprises (OECD, $2021_{[26]}$). As noted in the previous OECD Economic Survey of Finland (OECD, $2020_{[24]}$), extensive coverage of collective wage agreements with limited scope for firms to opt out results in a compressed distribution of wages that fails to align with productivity levels and contributes to resource misallocation. This issue is most pronounced for firms that are not members of the employer association that negotiated the sectoral agreement, mostly small firms, as by law they are not allowed to use the enterprise-bargaining flexibility clauses in the agreement. The government envisaged repealing this legal restriction before the pandemic (OECD, $2020_{[24]}$), but has put the reform on hold.

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Reduce barriers to competition in transport, energy, and retail.	Rail passenger transport was opened to competition in 2021 in compliance with the 2016 EU-wide railways regulations package. Network development plans for the distribution system were introduced in 2021 to support the integration of electricity generation from renewable energy sources as well as to facilitate the development of energy storage facilities. New requirements for network operators to reduce costs of transmission and distribution services were introduced. A centralised information exchange system (Datahub) was introduced in 2022, bringing together all electricity consumption data held by 77 distribution system operators and 64 retail electricity suppliers. Access to these centralised data promotes the use of smart grids and meters and innovative new services. It also facilitates decentralised electricity generation and increase competition in the tabil product.
Ensure that the financial regulatory framework supports the development of new forms of financing for innovative and fast-growing companies, while guaranteeing financial stability and investor protection.	No action taken.
Design public procurement in a way that encourages innovation.	The Ministry of Economic Affairs and Employment is preparing an action plan to implement the government's objectives for the sustainable and innovative public procurement and innovation objectives of the National Public Procurement Strategy.
Ease the transition from secondary to tertiary education by reforming the highly selective tertiary education admission system and increasing the number of available study places.	From 2020, admissions to just over one half of study places in higher education institutions shifted to certificate-based admission, which is based on the grades of the matriculation examination at upper secondary schools and initial vocational qualifications from vocational institutes.
Use funding criteria for higher education institutions or R&D vouchers to reinforce co-operation between companies, particularly start-ups, and universities.	The Academy of Finland's Flagship Programme has been expanded in the fourth supplementary budget of 2020, allocating EUR 25 million to fund new Flagships. The Academy is also prepared to fund new Flagships with an additional EUR 20 million in coming years. Business Finland has developed a new model of private-public partnership for long-term R&D and innovation collaboration between firms, research institutes and universities. Pilot projects began in 2020, with results feeding into further development of the model in 2021-23.

Table 1.10. Past recommendations on productivity-enhancing reforms

Increasing employment and reducing the gender wage gap

The government has implemented numerous labour market reforms and plans further reforms aimed at increasing employment by 80 000 by the end of the decade and narrowing the employment-rate gap relative to the Nordic average (Table 1.11; Figure 1.8). The Ministry of Finance estimates that reforms already implemented or planned could increase employment by around 40 000, pointing to the need for further reforms to achieve the government's objectives.

A major focus of reforms since the last *Survey* has been to increase the employment rate of older workers, which lags well behind the Nordic average despite increases in recent years resulting from the 2005 and 2017 pension reforms (Figure 1.30 and Figure 1.31; Box 1.6). In December 2020, the government announced a package of measures to increase employment of older workers (55 and over), the most important of which is the phasing out of access to extended unemployment benefit by 2025, as recommended in the 2020 *Survey* (Table 1.13). Other measures include: increasing the cap on the earned income tax deduction, a new model of redundancy pay and a training obligation, and a new 70% wage subsidy. The Ministry of Finance estimates that phasing out extended unemployment benefit will increase employment by 9 100 by the end of the decade (Table 1.11). To achieve this increase, it will be important to limit leakage of early retirement flows into disability benefit, the main alternative to the unemployment tunnel. In this regard, non-medical factors for the award of disability benefits should no longer be taken into consideration for applicants aged 60 or over, like for other applicants (Box 1.8).



Figure 1.30. Employment rates by age and sex

Source: OECD staff calculations based on OECD Labour Force Statistics database.

StatLink msp https://stat.link/psk972

Figure 1.31. Employment- and effective retirement rates for older workers have been increasing



1. Average of effective retirement age for men and women.

Source: Statistics Denmark; Statistics Finland; Statistics Norway; Statistics Sweden; OECD, Pensions at a Glance (database).

StatLink and https://stat.link/8g34cn

	Positive effect		Negative ef	fect	No credible estimates	
	Minimum	Maximum	Minimum	Maximum		
Measures implemented						
Nordic labour services model	9500	9500				
Raising minimum age for extended unemployment benefit from 61 to 62	6500	7000				
Reduction in early childhood education and care fees	2500	3600				
Reform of adult education allowance	200	200				
Extension of compulsory education ¹					x	
Changes in taxation and social security relative to legislation in 2019 ²			2900	8600		
Partial abolition of the activation model ³			2000	4900		
Measures proposed to Parliament or past the planning stage						
Phasing out the unemployment tunnel and other reforms to increase employment of over 55s	9100	9100				
Simplification of the wage subsidy system	500	1000				
Linear model for partial disability pensions	200	200				
Measures in the planning stage						
Transfer of employment services to municipalities	6600	6600				
Increase employment of the partially disabled through municipality public procurement	2000	2000				
Specific mission company to employ partially disabled persons	1000	1000				
Increasing work-related immigration					X	
Improving the integration of immigrants					x	
Prevention of disability pensions and sickness absenteeism	2500	2500				
Lifelong learning reform					x	

Table 1.11. Estimates of employment effects of government decisions and proposals by 2030

1. This reform is likely to have a significant effect in the long run, but not by the end of this decade.

2. EPC calculations based on the Ollonqvist et al. (2021) methodology.

3. Allowing for displacement effects.

Source: Economic Policy Council Report 2021 (2022).

Box 1.8. GDP and fiscal impacts of this Survey's key recommendations

This box summarises the potential long-term impacts of selected key recommendations in this Survey on GDP and the fiscal balance (Table 1.12). Because it is often impossible to estimate the impacts of the exact reforms recommended due to the lack of suitable theoretical or empirical models, the quantification is based on scenarios that only capture some aspects of these reforms. The quantified impacts are merely illustrative and are subject to large uncertainties. The estimated fiscal impacts describe only the direct impacts and do not include indirect impacts on fiscal revenue and spending stemming from households and firms' responses to policy changes.

Table 1.12. GDP and fiscal cumulative impacts of selected key recommendations

Key recommendation	Assumed scenario	GDP impact (GDP level gains, percentage points)	Net fiscal impact (% of GDP)
Target the R&D tax credit at SMEs.	Business-based R&D will increase from 2.0% to 2.7% of GDP, thereby helping the government achieve its gross domestic R&D expenditure target (4% of GDP) (Chapter 2).	3.11	-0.4
Increase the number of study places in universities and universities of applied sciences.	Human capital per labour input grows by 1.2% in 2020-29 and by 0.7% in 2030-39 as education expenditure per student is increased gradually to the level prevailing in the 1990s.	32	+0.8
Tighten the criteria for awarding disability benefits.	The reform will lengthen the working lives of older workers by 3.4 months at the age of 63, as was the case with the 2004 reforms of the Individual Early Retirement scheme (Kyyrä, 2015 _[27]).	0.3	0.0

1. The impact has been estimated for a long time horizon (by 2050) and is based on the framework laid out in Égert and Gal (2017_[28]). 2. The impact is calculated by comparing Bank of Finland's long-term projections for a baseline scenario and a no-policy-change scenario. In addition to increased expenditure on education, the baseline scenario entails higher growth rates for fixed capital. The impact has been estimated for a time horizon of 10-15 years. The fiscal impact has been calculated using long-term projections that differ from those published by the Bank of Finland, in that they do not allow central government to adjust taxes. Source: OECD simulation based on the framework by Egert and Gal (2017[28]), Kyyrä (2015[27]) and Bank of Finland (2021[14]).

Table 1.13. Past recommendations on labour market reform and actions taken

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Phase out extended unemployment benefit by progressively increasing the eligibility age to 65 by 2029, the maximum age for receiving the benefit, and then abolish it. Extend the non-accrual of pension rights to the whole period of extended	Access to extended unemployment benefit will end by 2025.
unemployment benefit receipt, to enhance work incentives.	recommendation redundant.
Apply activation requirements for the older unemployed with the same vigour as for other unemployed persons.	No action taken. Instead, the government has taken measures that will enter into force progressively from 2023 to improve working capacity and wellbeing at work among older people, strengthen skills and reinforce protection in the event of restructuring.
Align the conditions for awarding disability benefit to persons aged 60 or over with those for other applicants, notably by no longer taking into consideration non-medical factors.	No action taken.
Increase the Public Employment Services (PES) budget and enhance efficiency in service delivery to meet the rise in demand for services.	The PES budget was increased substantially in 2020 and 2021. The demand for services increased markedly following the outbreak of the pandemic in 2020, but declined in 2021 to such an extent that there was more money available than needed. The Nordic labour market services model, which should be more efficient, entered into force in May 2022.
Abolish public-sector wage subsidies.	Wage subsidy reform, not abolition, is scheduled to occur in 2023. The goal of the reform is to decrease bureaucracy and increase subsidized jobs in enterprises. Wage subsidies will decline for the unemployed who are municipalities' target groups but increase for target groups of enterprises.
Strengthen lifelong training targeted at unskilled workers.	The Service Centre for Continuous Learning and Employment, which promotes the competence development of working-age people and the availability of skilled labour, has been established. Some temporary funding for training unskilled workers and some VET funding targeted on unskilled workers has been made available.

Require employers to contribute to the unemployment benefit costs of hours not worked (in addition to employers' unemployment benefit contributions).	No action taken.
Create a government unemployment insurance fund into which either all workers or those who are not members of another fund are automatically enrolled.	No action taken.
Repeal the legal restriction that prevents some employers from using the enterprise-bargaining flexibility clauses in their sector collective agreement, as planned.	No action taken.
Reduce the homecare allowance to increase incentives for mothers of young children to work. Compensate the income loss with alternative transfers that are not conditional on homecare.	No action taken.
Improve access to ECEC services by ensuring that those municipalities that do not provide sufficient places in convenient locations with suitable opening hours do so.	No action taken.

Finland has the lowest employment rate among the Nordics for people with a medium level of education, and relatively high unemployment rates for people with medium- and high education attainment (Figure 1.32). These outcomes cannot be explained by high participation tax rates (*i.e.*, effective tax rates, including additional income taxes and social contributions and lost benefits) on extra income from moving into employment as they are around the Nordic average for most household types (Table 1.14). The better outcomes in the other Nordics point to other factors that counter these adverse effects. In Denmark, an important such factor is the flexicurity model, which combines generous out-of-work benefits with labour flexibility and strong measures to ensure a rapid return to employment (Box 1.9). This model contributes to Denmark having better labour market outcomes than Finland despite higher participation tax rates. This is not to say that Finland should not seek to reduce high participation tax rates. Progress on this front, for example by reducing the homecare allowance and further increasing early childhood education and care subsidies (in 2021, income thresholds for subsidies were raised by 31% and subsidies for second and subsequent children were increased from 50% to 60%), would complement other reforms to increase employment.

Figure 1.32. Employment and unemployment rates by educational attainment

2021



Note: Low education is lower secondary education and below (levels 0-2 in the ISCED classification), medium education is upper secondary and post-secondary non-tertiary education (levels 3 and 4) and high education is tertiary education (levels 5-8). Source: Eurostat.

StatLink ms https://stat.link/y0zkvs

Table 1.14. Participation tax rates in Finland are similar to those in Norway and Sweden and Iower than in Denmark

	Short-term unemployment					Long-term unemployment						
	2 childre	n aged les 4 years¹	ss than	2 child	2 children aged over 4 years ¹ 2 children aged less than 4 years ¹		ss than	2 children aged over 4 years ¹				
				Adult 1, e	mployed,	Adult 2 u	inemploye	d takes a	new job			
Current, previous and new jobs pay	67% AW	100% AW	150% AW	67% AW	100% AW	150% AW	67% AW	100% AW	150% AW	67% AW	100% AW	150% AW
Denmark	99	80	68	88	73	64	99	80	68	88	73	64
Finland	85	82	75	72	71	68	69	60	57	55	49	50
Norway	88	81	68	77	73	63	36	35	38	24	28	33
Sweden	84	74	66	78	71	63	74	67	61	68	64	59
Average	89	79	69	79	72	65	69	61	56	59	53	51
				Adults 1	and 2, ur	nemploye	d, Adult 1	takes a n	ew job			
Denmark	74	67	61	74	67	61	74	67	61	74	67	61
Finland	59	54	50	59	49	45	75	70	64	75	70	64
Norway	41	28	33	42	29	34	93	74	64	94	74	64
Sweden	37	32	38	38	33	38	46	39	43	47	40	43
Average	53	45	46	53	44	45	72	63	58	73	63	58
					Single ur	nemploye	d takes a r	new job				
Denmark	88	79	75	85	73	68	88	79	75	85	73	68
Finland	80	88	81	80	82	73	66	74	70	66	69	62
Norway	88	85	71	87	78	66	70	70	61	70	63	56
Sweden	86	78	69	82	74	66	79	73	66	75	69	63
Average	86	83	74	84	77	68	76	74	68	74	69	62
						No ch	ildren					
				Adult	s 1 and 2	, unemple	oyed and t	ake new j	obs			
		Sho	rt-term ur	nemployme	ent	· · ·		Lon	g-term un	employme	ent	
	67% Δ\W 100% Δ\W 150% Δ\W					67% AW 100% AW 150% ΔW						

Effective tax rate on additional household gross income from an unemployed adult taking a job

01% AV J% AV\ 50% AV /% AV\ J% AV 0% AV Denmark Finland Norway Sweden Average

1. When both parents work, they are eligible for childcare subsidies if their children are aged less than four years. When one parent does not work, the family is not eligible for childcare subsidies but may be eligible for home-care subsidies.

2. When the second adult of a couple is out of work, it is assumed that they have exhausted any own insurance-based entitlements.

3. Housing costs are assumed to be 30% of the average wage for couples and singles with children earning at least 100% of the average wage and 25% for households with children earning less.

Source: Own calculations based on output from the OECD tax-benefit model. Model version 2.4.0.

Box 1.9. The flexicurity model contributes to good labour market outcomes in Denmark.

Members of unemployment insurance funds receive unemployment benefits (up to 90% of the previous wage for low-income workers) for two years. To be eligible for unemployment benefits, the unemployed must actively search for a new job. That means registering a CV at the state-run Jobcentre, applying for jobs every week and accepting job offers from the Jobcentre or the unemployment fund with one day's notice. Moreover, jobseekers need to participate in job training proposed by the unemployment insurance fund and widen their search, both geographically and in terms of job type, as time in

unemployment goes on. If these job-search and participation requirements are not met, unemployment benefits are temporarily withdrawn. An individual who fails to comply with the requirements twice within 12 months loses the right to benefits. Only after three consecutive months of paid work is the right to unemployment benefits re-established.

The flexicurity model has resulted in a dynamic labour market with relatively low skills mismatches and high job turnover, with annual job vacancies amounting to 27% of the labour force. Denmark also has a high employment rate and one of the lowest rates of long-term unemployment in the OECD. The system does, however, also entail high government spending on labour market programmes.

Source: (Confederation of Danish Employers, Danish Trade Union Confederation and Ministry of Employment., 2021[29]); (OECD, 2016[30]).

Partly inspired by Denmark's flexicurity model, Finland introduced the Nordic labour services model in May 2022. It provides job seekers with intensive public employment service contact from the beginning of their unemployment spell. They are given more support for job search than under the former system but have more responsibility for their search, which they report via an Internet service. The reform is intended to increase fourfold the number of interviews of unemployed persons, which has necessitated the recruitment of an additional 1 200 public employment service officials. This will increase expenditure on public employment services per unemployed person markedly, albeit still not to the levels in the other Nordics. The Economic Policy Council estimates that the Nordic labour services model will increase employment by 9 500 by 2025 and beyond, although it also estimates that the partial abolition of the similar activation model reduced employment by 2 000 to 4 900 (Table 1.11). The authorities should investigate the potential benefits of adopting the other plank of Denmark's flexicurity model, namely less restrictive employment protection legislation concerning individual dismissals (Denmark scores 1.53 and Finland 2.56 on a 0-6 scale in 2019 (the OECD average was 2.06) where a higher value indicates stricter regulation) to reduce hiring risks for employers. Increased flexibility could be particularly beneficial for improving labour market outcomes of low-skilled workers.

A complementary reform to the introduction of the Nordic employment services model that is planned is the transfer of employment and economic development services to municipalities in 2024. A key part of the reform is to create a funding model for municipalities that encourages them to develop and offer efficient services. Currently, municipalities are only responsible for financing the long-term flat-rate unemployment benefit (known as labour market support). They can reduce these costs by activation, which entails simply referring the unemployed person to the public employment service. Under the new model, municipalities will also be responsible for funding the basic allowance (the flat-rate unemployment benefit paid to the unemployed without unemployment insurance) and the basic component (the same as the basic allowance) part of earnings-related unemployment benefits right from the beginning of the unemployment spell. In addition, activation will no longer have any effect on a municipality's funding responsibilities for unemployment benefits. Under the new model, a municipality that reduces periods of unemployment would benefit more financially than at present when a local resident finds work. The Ministry of Finance estimates that the incentives in the new funding model will increase employment by 6 600 (Table 1.11).

Another aspect of labour market performance where Finland has room for improvement is the gender wage gap, which is greater than in most other OECD countries, including the Nordics (Figure 1.33). The homecare allowance to look after a child up to three years of age (with extra payments for pre-school age siblings) at home reduces labour market attachment among mothers – 70% of children under three are cared for at home with childcare allowance (Hiilamo, Merikukka and Haataja, 2018_[31]) -, undermining their career prospects and earnings mobility. This is because mothers miss crucial in-work transitions early in their careers, which promote stronger career advancement and income growth (OECD, 2018_[32]). To reduce gender wage inequality, homecare allowance should be phased out, as recommended in the 2020 OECD *Economic Survey*, and other transfers not conditional on homecare increased or introduced to compensate income losses for families close to the poverty line.



Figure 1.33. The gender full-time wage gap is large in Finland

Note: Data for Belgium, Colombia, Costa Rica, Denmark, Finland, Germany, Ireland and Italy refer to 2019. Data for Estonia, France, Iceland, Israel, Latvia, Lithuania, Netherland, Slovenia, Spain and Türkiye refer to 2018. Source: OECD, Social Protection and Well-being (<u>database</u>).

StatLink ms https://stat.link/3yjsio

The reform of the family leave model, which came into effect in August 2022, should help to reduce the gender wage gap. Family leave provides financial support for parents to stay at home (but not at the same time) to look after new-born children after maternity leave expires and is lost if not taken before the child turns two. In contrast to the old model, both parents now receive the same number (143) of leave allowance days and the maximum number of days that can be shifted to the other parent has been reduced to 63 days. These changes encourage fathers to take a larger share of family leave, reducing mothers' time away from work and hence lost opportunities for career development.

Reducing greenhouse gas emissions efficiently

Russia's war against Ukraine and the energy crisis that has followed has added energy security to the environmental benefits of making the transition away from fossil fuels to renewables and nuclear that is necessary to achieve Finland's greenhouse gas emissions abatement objectives. As noted above, Finland is broadly on track to meet its 2030 EU gross greenhouse gas emissions abatement objective for effort-sharing sectors (*i.e.*, sectors not covered by the EU emissions trading scheme (ETS) other than the forestry and land-use sector)– the Finnish Climate Change Panel (2022_[33]) estimates that additional measures amounting only to 1 Mt CO₂-eq. may be needed - but not the forestry and other land-use sink objectives to meet Finland's share (17 Mt CO₂-eq.) of the EU 2030 target and the 2035 net zero emissions target (21 Mt CO₂-eq.). Meeting the forestry and other land-use sink objectives will be very challenging given the starting point – this sector became a net emitter (2.1 Mt CO₂-eq.) for the first time in 2021.

According to Finland's Medium-Term Climate Change Policy Plan (Finnland Ympäristöministeriö, 2022_[34]), the transport sector, which accounts for around 40% of effort-sharing sector emissions, is to contribute around one half of the abatement needed by 2030 to meet the EU gross emissions effort-sharing target. The most important existing and additional (i.e., already legislated) measures to reduce road transport emissions are high fuel taxes and the national renewable fuel blending (i.e., biofuel) distribution mandate, which is to increase with additional measures from 18 % of the total energy content of fuels used in road transportation in 2021 to 34 % by 2030, 10 percentage points higher than required by the European Union. The other major means of abatement is the move to low-emissions power sources for vehicles. The electric

vehicle (EV) fleet is growing quickly: EVs were 14% of new car registrations over January-July 2022 and now stand at 0.8% of the total car fleet, which is around the EU average. Limited efforts are also being made to reduce car dependency in cities. Many municipalities are investing in improving rail-based public transport and, with government support, have taken measures to encourage cycling and walking. Improving the public transport infrastructure in the capital region would provide a viable alternative means of transport for commuters who live outside Helsinki. Other key measures that should be taken to reduce car dependency in cities are street redesign, spatial planning focused on increasing proximity and support for shared mobility (OECD, 2021_[35]). Considering the elevated, albeit rapidly declining, abatement costs of EVs (the Ministry of Finance estimates these costs to be less than EUR 300 per tonne of CO₂-eq.), support for their diffusion should be focussed on localities with limited economic options for public transport.

Agricultural emissions, which account for around 20% of effort-sharing sector gross emissions, are to decline by around 10% by 2030 through both EU common agriculture policy (CAP) and national measures. Measures include control of peatland emissions, such as by requiring the cultivation of peatlands on elevated water levels, the increase of carbon sequestration in mineral lands, precision farming and the reduction of methane production by dairy cows. These measures will also affect emissions of the forestry and other land-use sector.

The remaining effort-sharing sectors include industry, construction and other use of energy and heating categories. Reducing emissions in these sectors will in most cases also help to enhance energy security. Increases in energy taxation, including an increase in the energy content tax on heating fuels by EUR 2.7 per megawatt hour from the beginning of 2021 and the phasing out of the tax rebate for energy-intensive companies by 2025, will reduce emissions of industrial plants and small district heating plants in the effort-sharing sector (as well as plants in the emissions trading sector) by increasing the price of carbon emissions for these entities. Other policy measures to reduce industrial emissions are the same as in the emissions trading sector, notably the use of energy subsidies for new energy technologies, increasing energy efficiency and the use of renewable energy. Emissions from separately heated residential and commercial buildings will be reduced by supporting the move away from oil heating to low-emissions solutions, such as geothermal heat pumps, and by increasing the share of biofuels used.

While Finland is broadly on track to meet its effort-sharing target, there is considerable scope to reduce the costs of doing so. One of the most inefficient instruments being used to reduce emissions is the biofuel mandate. The Ministry of Finance estimates that the tax-free price of biofuel used in Finland is currently EUR 1.30 per litre higher than for fossil diesel and that the marginal abatement cost of the general biofuels mandate is EUR 500 per tonne of CO₂-eq. In addition to the general mandate, fuel distributors must also meet an advanced biofuels mandate, albeit small. The Ministry of Finance estimates that the marginal abatement cost of this mandate is EUR 900-1000 per tonne of CO₂-eq. In all, the Ministry of Finance estimates that the biofuels mandate costs around EUR 1.1 billion per year, rising to EUR 1.5 billion by 2030. In view of the high abatement costs of the biofuels mandate, it should be reduced to the minimum level required by the European Union. If the mandate were to be reduced by 20 percentage points in 2023, the Ministry of Finance estimates that gross emissions in the effort-sharing sector would be 2.5 Mt CO2eq. higher (the global net increase would be much smaller owing to carbon leakage), abatement costs EUR 1 billion lower, tax revenues EUR 190 million higher and the consumer prices of gasoline and diesel 22 and 25 cents lower, respectively. Moreover, burden-sharing guotas over 2026-29 would be reduced because they partly depend on outcomes over 2021-23, saving another EUR 690 million if there were a corresponding reduction in the biofuels mandate. Other abatement inefficiencies include a lower carbon price being used to calculate carbon tax rates on heating fuels than on transport fuels and a lower energy tax rate on peat combustion (12% of Finland's greenhouse gas emissions) than on combustion of other fossil fuels, despite being even more carbon emissions intensive than coal combustion; indeed, incentives to use peat in industrial plants and small district heating plants have been strengthened by a temporary increase in the ceiling for tax-free use of peat until 2030, contrary to the recommendations in the 2020 Survey (Table 1.15).

Table 1.15. Past recommendations on green growth and actions taken

Past OECD policy recommendations (key ones in bold)	Policy actions since the 2020 Economic Survey of Finland (December 2020)
Reduce GHG emissions in the effort-sharing sectors using the most cost-effective abatement measures, including making full use of available flexibility mechanisms.	The government has allocated EU Recovery and Resilience Facility financing to low carbon investments in the energy- and industrial sectors.
Subject heat production using peat to the same tax regime as for other fossil fuels used for heating.	No action taken. The peat energy tax has been maintained at a lower level than other fossil fuels to incentivise combined heat and power plants to choose domestic peat over imported coal. Unfortunately, peat-fired power plants emit more carbon than coal-fired power plants.
To reduce greenhouse gas emissions further, phase out environmentally harmful subsidies and better align the tax rate on emissions across sectors.	The tax refund for energy-intensive enterprises will be phased out by 2025 and the tax reduction for paraffinic diesel by 2023.
Progressively replace national agricultural subsidies by subsidies for environmental benefits.	In the new CAP strategic plan, which will be in force from 2023 onwards, the baseline of environmental and climate requirements will be reinforced as well as the more targeted EU environmental measures.

Abatement efficiency in the effort-sharing sector could be increased by lowering the biofuels mandate to the minimum required by the European Union and compensating by increasing the carbon price used to calculate carbon tax rates on heating fuels to the rate used for transport fuels, subjecting heat combustion using peat to the same tax regime as other fossil fuels and, if necessary, increasing the carbon price used to calculate carbon tax rates. Making maximum permitted use of flexibility (2% of 2005 effort-sharing emissions annually) to substitute emission permits from EU Emissions Trading System (ETS) for domestic abatement will also limit effort-sharing abatement costs as marginal abatement costs in Finland's effort-sharing sectors (EUR 120-150 per tonne) are much higher than in the EU ETS sectors (EUR 80-120 per tonne).

Agriculture provides considerable scope to increase the forestry and other land-use net sink, notably in peatland cultivation, which emits 8Mt CO₂-eq.; emissions from peat in all forms, including urban heating, amounted to half of total gross emissions (48 Mt CO₂-eq.) in 2020. Cultivation of peatlands typically involves felling the trees on these lands and draining them, which releases a lot of greenhouse gases. The Climate Change Panel (2022_[33]) considers that instruments are needed to guide the cultivation of peatlands, as in Sweden. If the lands are to be cultivated, it would be better to practice paludiculture (*i.e.*, cultivation of wetted peatlands). The Climate Change Panel also recommends that the planned public procurement of 30 000 hectares for this purpose should be increased to 50 000. Another issue in agriculture is that there are high subsidies to maintain animal-based agriculture in northern areas. Progressively replacing these and other national subsidies by subsidies for environmental benefits, as recommended in the 2020 OECD *Economic Survey*, would also help to reduce agricultural emissions. Given the importance of the sector in Finland and its impact on net emissions, forestry should be subject to carbon pricing, as New Zealand does by including forestry in the New Zealand Emissions Trading Scheme. This would boost the return to forest growth relative to felling, increasing the forestry and other land-use sink.

Keeping corruption low

Finland shares first place in Transparency International's corruption perception index for 2021 (Figure 1.34, Panel A) and is a top performer also in controlling corruption (Figure 1.34, Panels B, C and D). Street-level corruption (i.e., when police, customs officials, doctors, teachers or other professionals demand bribes to perform their duties or work) is very rare, and the government has instead focused its efforts on structural corruption. The construction industry, public procurement and community planning have been identified as being at higher risk of corruption than other activities, and the Ministry of Justice has organised training sessions targeted at these areas. The National Active Corruption Strategy 2021-2023 emphasises

improved cooperation between authorities, more accurate methods to identify corruption and increased transparency as key measures to fight corruption. To increase transparency, the government has proposed a law compelling organisations to register their lobbying activities in a public register twice a year. What is more, Finland is in the process of enacting an EU directive stipulating that companies with more than 50 employees set up reporting channels for whistle-blowers. The legal framework is also being amended to include trading in influence alongside corruption and bribery offences. The Ministry of Justice is expected to submit its legislative proposal criminalising trading in influence for public consultation by the end of this year. In coming years, Finland is also looking to make greater use of AI in identifying suspicious money transactions. However, the lack of enforcement of the foreign bribery offence in Finland is concerning in light of the corruption risks faced by Finnish companies operating abroad. The Ministry of Justice has arranged training sessions for investigators and prosecutors working on foreign bribery and recently published a report with suggestions on how to improve legislation going forward.



Figure 1.34. Finland has low corruption and is a top performer in controlling it

Note: Panel B shows the point estimate and the margin of error. Panel D shows sector-based subcomponents of the "Control of Corruption" indicator by the Varieties of Democracy Project.

Source: Pánel A: Transparency International; Panels B & C: World Bank, Worldwide Governance Indicators; Panel D: Varieties of Democracy Project, V-Dem Dataset v12.

Peer reviews by the Global Forum on Transparency and Exchange of Information for Tax Purposes and the Financial Action Task Force (FATF) suggest that Finland's tax transparency is high but that anti-money laundering measures could improve. Following up on its 2019 evaluation of Finnish anti-money laundering measures, FATF notes that Finland has addressed deficiencies relating to the lack of anti-money laundering guidance from relevant authorities. Finland is, however, still not fully compliant with FATF recommendations on monitoring non-profit organisations and beneficial ownership information.

StatLink msp https://stat.link/mcsqpe



Figure 1.35. Tax transparency is high but some anti-money laundering measures need to be strengthened

Note: Panel A summarises the overall assessment on the exchange of information in practice from peer reviews by the Global Forum on Transparency and Exchange of Information for Tax Purposes. Peer reviews assess member jurisdictions' ability to ensure the transparency of their legal entities and arrangements and to co-operate with other tax administrations in accordance with the internationally agreed standard. The figure shows first round results; a second round is ongoing. Panel B shows ratings from the FATF peer reviews of each member to assess levels of implementation of the FATF Recommendations. The ratings reflect the extent to which a country's measures are effective against 11 immediate outcomes. "Investigation and prosecution1" refers to money laundering. "Investigation and prosecution2" refers to terrorist financing. Source: OECD Secretariat's own calculation based on the materials from the Global Forum on Transparency and Exchange of Information for Tax Purposes; and OECD, Financial Action Task Force (FATF).

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Main findings	Recommendations (key recommendations in bold)
Ensuring fiscal sustainability and financial	stability amidst Russia's war against Ukraine
The fiscal stance became expansionary in 2022 largely owing to the response to Russia's war against Ukraine and will be again in 2023 but will be neutral in 2024. Increases in energy and food prices have put pressure on budgets of households not receiving social-security benefits, which are indexed to inflation.	Provide targeted assistance to vulnerable households not deriving their income from social-security benefits while ensuring that the structural budget position does not deteriorate unless the outlook materially worsens.
The Ministry of Finance estimates that the fiscal sustainability gap and the structural budget deficit in 2026 will be 3.0% and 2.4% of potential GDP, respectively. Fiscal buffers to cope flexibly with adverse shocks are diminished. Almost half of state aid to companies does not directly promote productivity.	Implement consolidation measures to achieve Finland's medium- term structural budget deficit objective (0.5% of GDP) by the end of the decade. Undertake a comprehensive spending review to identify consolidation measures and make such reviews regular. Reduce state aid to companies that does not enhance productivity.
General government contingent liabilities are high and concentrated in a small number of sectors and enterprises.	To limit risks to government finances, require a good justification for any increases in contingent liabilities, a comprehensive risk assessment before making any commitments and regular reports on the overall risk position.
The healthcare and social-care reform is expected to slow growth in expenditures in the long run and to deliver better services across the country. There is a risk that incentives are too weak for the new counties to increase efficiency.	Monitor the healthcare and social-care reform and strengthen incentives to improve efficiency if they prove to be too weak. Implement payment models (accountable- care organisations and bundled payment models) that reward integrated service delivery and high-quality outcomes.
Interest rates on housing loans are revised annually. Highly indebted households may have difficulty servicing debts when interest rates rise to more normal levels.	Empower the Board of the Finnish Financial Supervisory Authority (FIN-FSA) to impose debt-service-to-income limits on mortgage lending.
Structural macroprudential buffer capital requirements strengthen credit institutions' loss-absorption capacity. They are lower in Finland than in the other countries with similar structural vulnerabilities and risk levels.	Increase structural macroprudential buffer capital requirements to around the levels in the other countries with similar structural vulnerabilities and structural risk levels.
Preferential tax treatment of owner-occupied housing increases the prices of houses and the size of loans needed to buy them.	Phase out the capital gains tax exemption for owner-occupied housing but allow tax deferral if the gains are reinvested in a principal residence within a certain time to avoid lock-in effects.
Investors buying rental property through a housing company can reduce the present value of taxes to be paid by deducting capital repayments from rental income at the expense of increasing the capital gain when shares in the housing company are sold.	Terminate deductibility of capital repayments on housing company loans against rental income.
Property transfer taxes reduce welfare by distorting the housing market and discouraging labour mobility.	Replace property transfer taxes by taxes with lower efficiency costs, such as annual real estate taxes.

Boosting productivity and increasing employment						
Heavy regulations on retail sales of pharmaceuticals are hampering competition.	Ease entry regulations for pharmacies and allow non-prescription medicines to be sold in places other than pharmacies.					
Firms that are not members of the employer association that negotiated the sectoral wage agreement are by law forbidden from using the enterprise bargaining flexibility clauses. This weighs on the productivity and profits of these mostly small firms.	To support employment and productivity, high-level agreements should set broad framework conditions in wage bargaining but allow for more flexibility in all firm-level contracts.					
To realise the employment potential of phasing out extended unemployment benefit (the unemployment tunnel to early retirement), it will be important to limit early retirement leakage into disability benefit.	No longer take non-medical factors for the award of disability benefits into consideration for applicants aged 60 or over, as for other applicants.					
People born after 1985 will not be able to avoid lower pensions because their target retirement age, at which the pension increment from delaying retirement offsets the reduction from the life expectancy coefficient, exceeds 70, the age limit for pension contributions.	Index the age limit for pension contributions to the target retirement age beyond 70.					
Many proposed reforms (see Table 1.11) aimed at increasing employment and thereby reducing the budget deficit are still at a development stage.	Refine these reforms and develop credible estimates of their employment and budget effects.					
The generous homecare allowance discourages work by mothers with young children, long absences from the labour force negatively affect their career prospects and earnings mobility.	Reduce the homecare allowance to increase incentives for mothers of young children to work.					
Reducing greenhouse gas emissions						
The marginal abatement cost of the national renewable fuel blending (i.e., biofuel) distribution mandate is high (EUR 500 per tonne of CO_2 eq.). The carbon price used to calculate carbon tax rates on heating fuels is lower than for transport fuels, increasing abatement costs.	Reduce the share of biofuels mandated to the minimum level required by the European Union. To compensate, align the carbon price used to calculate carbon tax rates on heating fuels with that used for transport fuels and, if necessary, increase this carbon price. Alleviate the burden of the energy transition on vulnerable households not compensated by social benefit indexation.					
Heat production is subject to a much lower tax rate when using peat than when using other fossil fuels. Carbon emissions from peat-fired power plants are greater than from coal-fired power plants.	Subject heat production using peat to the same tax regime as for other fossil fuels. Announce a clear phase-out date for peat extraction to provide certainty for stakeholders.					
The marginal abatement cost of electric vehicles is elevated (almost EUR 300 per tonne of CO_2 eq.), albeit declining quickly. Car dependency in cities remains high.	Strengthen policies to reverse car dependency in cities, including enhanced provision of public transport in the capital region, while focusing funding for low-carbon private cars in other localities.					
Further measures are needed to increase the forestry and other land use net sink to meet Finland's share of the 2030 EU target for this sector and to achieve the net zero emissions target by 2035.	Create instruments to guide the cultivation of peatlands towards paludiculture (i.e., cultivation of wetted peatlands). Subject forestry to carbon pricing.					
Keeping corruption low						
In October 2021, the Financial Action Task Force noted that while Finland had taken action to mitigate money laundering risks in the non- profit organisations, there was still work to be done.	Address deficiencies relating to supervision and monitoring of non-profit organisations at risk of money laundering or terrorist financing abuse.					

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