

Armenia 2021-2041

Macroeconomic diagnostic

May, 2021



Executive summary



Over the course of the past 10–15 years, Armenia's macro parameters (e.g., GDP CAGR of ~6%) have evolved in line with global and regional trends, which has not allowed the country to make a breakthrough given the low starting baseline.

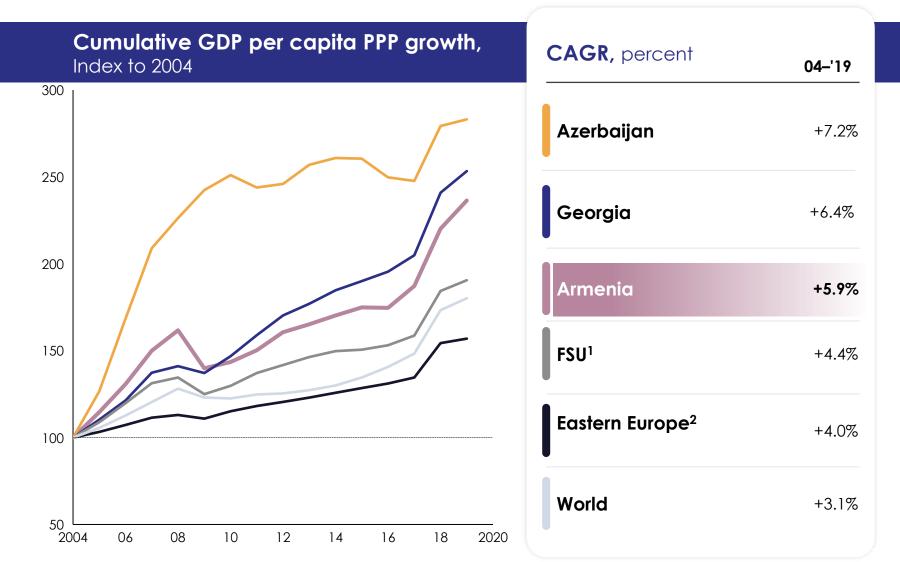
Moreover, overly relying on consumer spending to drive economic growth cannot be sustainable and sufficient in the future. Three main levers need to be addressed to grow sustainably:

- Closing the import gap and becoming a net exporter of goods and services
- Boosting labor productivity (i.e., human capital)
- Attracting sizeable investments (e.g., for infrastructure)

Through collective efforts Armenia can overcome these barriers and leap towards achieving sustainable, high economic growth

In the last 15 years Armenia's economy has grown at ~6% per annum, which has not been sufficient to make a leap





Key takeaways

Armenia has grown faster than many other Former Soviet Union countries

However, regional neighbors have managed to grow faster than Armenia in the same period

^{1.} Former Soviet Union; 2. Eastern Europe consists of Bulgaria, Romania, Croatia and Albania Source: World Bank

Due to the low starting base, Armenia's growth has not been enough to significantly change its position relative to peer countries





Key takeaways

Despite Armenia's growth rate, its low starting base for GDP per capita did not enable the country to significantly improve its position vs. its FSU peers

Armenia could aspire to accelerate its development to reach the GDP per capita levels of Eastern European countries

Armenia moved from 10th place in 2003 to 9th place in 2019

Source: World Bank

Executive summary



Over the course of the past 10–15 years, Armenia's macro parameters (e.g., GDP CAGR of \sim 6%) have evolved in line with global and regional trends, which has not allowed the country to make a breakthrough given the low starting baseline.

Moreover, overly relying on consumer spending to drive economic growth cannot be sustainable and sufficient in the future. Three main levers need to be addressed to grow sustainably:

- Closing the import gap and becoming a net exporter of goods and services
- Boosting labor productivity (i.e., human capital)
- Attracting sizeable investments (e.g., for infrastructure)

Through collective efforts Armenia can overcome these barriers and leap towards achieving sustainable, high economic growth

Main factors affecting Armenia across 5 dimensions

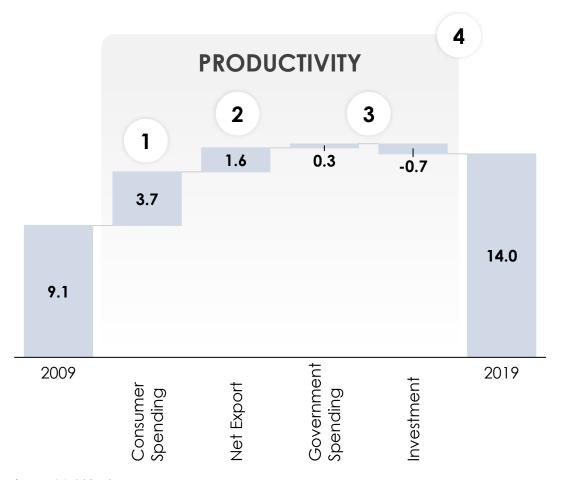




Dimension	Factors				
Consequences of Artsakh War	Human Capital Loss Casualties Wounded & PTSD Captives		Refugees (IDPs)		Defense and border governance
2 Economy	Unsustainable economic growth engines Unemployment	Underleveraged exports, driven by commodities	Labour Productivity Mono-ethnic country	Post-war trauma	Decreasing FDI and investment activities Food Security Energy Security Transport Security
3 Social	National Trust Government structures still in formation (e.g. judicial system)	Ample and accessible healthcare Role of Church in the XXI century	Social justice, equal opportunities through education		Human capital and growing social imbalances
4 Governance		Common Vision Decision making and execution capabilities	Diaspora Institutions Quality Assurance and Standards		
5 Diplomacy	International relations		Disinformation and misinformation & Fake News		

4 main structural factors have hindered Armenia from achieving its full potential

Armenia GDP growth drivers, constant USD bn





Unsustainable growth engines

The main growth engine has been consumer spending, driven by increasing debt levels

Imports exceed exports

Armenia's exports are growing faster than its imports but not enough to overtake them

Lack of investment

Armenia has a low investment share of GDP vs its peers, and investment growth has stalled in the last decade

Low labor productivity

Though productivity has grown, it remains below peer level and continues to hinder Armenia's economic growth

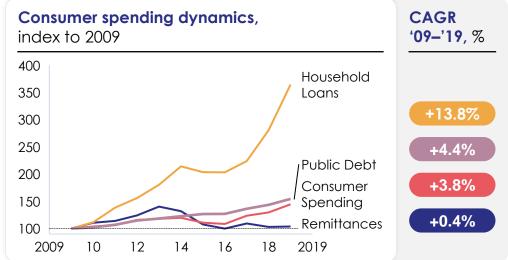
Addressing these 3 challenges first could help unlock Armenia's potential in the mid-to-long term

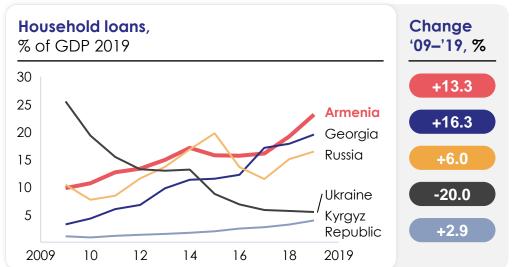
Source: World Bank

1. Armenia's consumer spending has recently been driven by increased debt









Key takeaways

Remittances were supporting consumer spending growth before 2014

After they started to decline and stagnate, Household Loans became the key driver of Consumer Spending

Additional consumption through household loans is not sustainable due to **growing debt**

Public debt reached 53,9% of GDP in 2019- international borrowing for CAPEX projects has also indirectly supported consumer spending

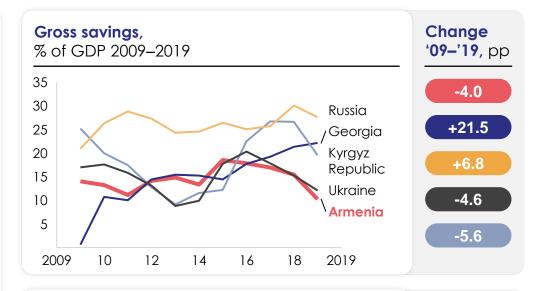


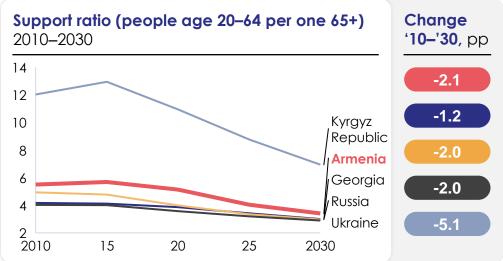


1. Armenia's low savings rate and aging population point to potential vulnerabilities in the future









Key takeaways

Armenia's gross savings rate has declined over the years, as in some of its FSU peers (Kyrgyz Republic, Ukraine)

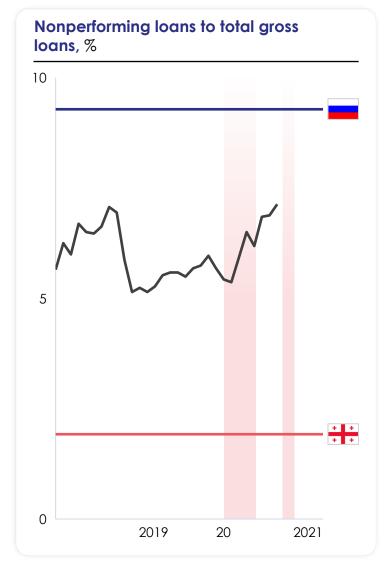
The fall in the support ratio highlights the strain on the pension system as more and more older people become dependent on the working age population

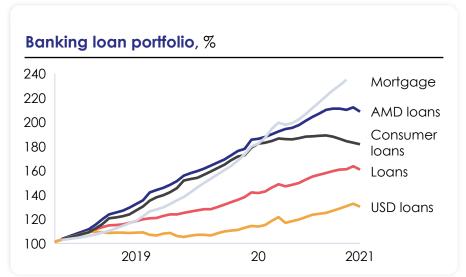
This issue is further highlighted in Armenia as the **government matches 7.5%** of salary into the pension fund, which is **higher than its FSU peers** (e.g. Georgia matches only 2%)

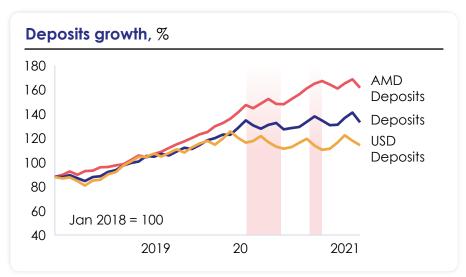
Source: World Bank









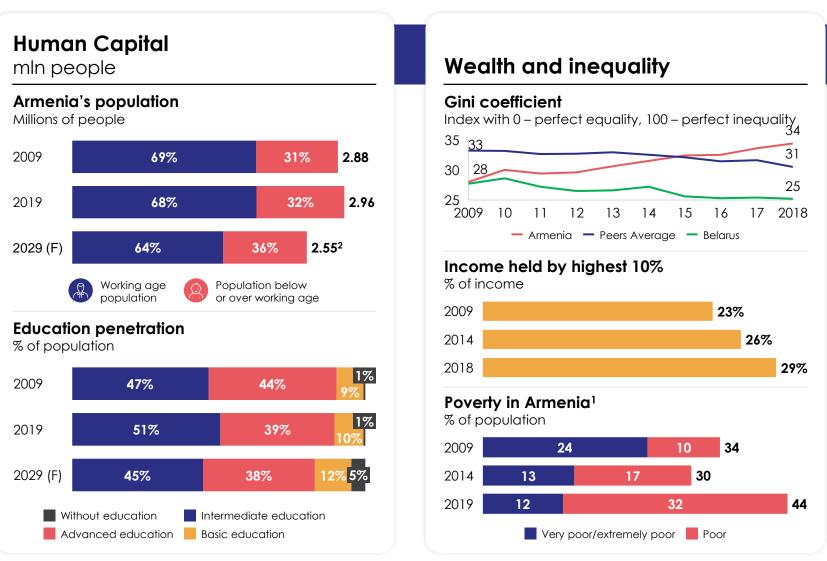


Key takeaways

Nonperforming loans remained fairly high at around 5%

Among peers this indicator varies: In Georgia, only 2% of loans are non–performing, while in Russia it is nearly 10%

1. Socio-economic imbalance is fueled by deteriorating human capital and growing inequality





Key takeaways

Lower birth rate and emigration could be the key drivers of population's decline

The share of working age population is projected to fall due to **emigration** of 15–24-year olds and aging of the population (growth in share of 65+year olds)

The quality of human capital may decline due to a rise in the share of the population without education

Inequality is **growing** and remains higher than in peer countries

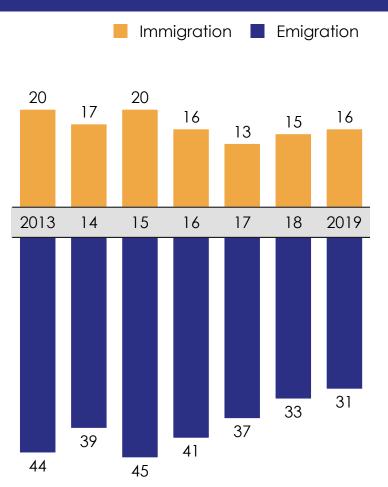
^{1.} Very poor: Consumption per adult below the lower poverty line of AMD 24,400 in 2008 and 30,500 in 2012 Extremely poor: Consumption per adult below the food poverty line of AMD 17,600 in 2008 and 21,700 in 2012

^{2.} Worst Case scenario in which nearly 300,000 people leave because of the war – details to follow

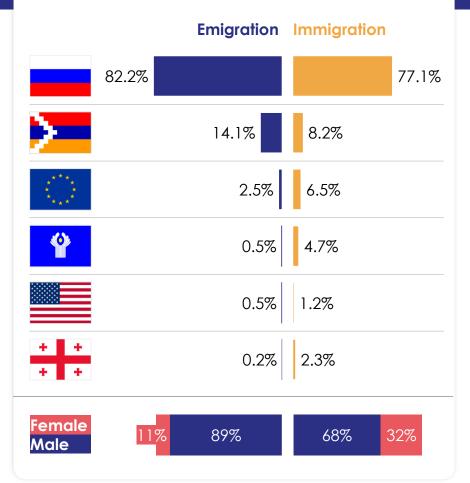
1. Over the last decade, Armenia has experienced more emigration than immigration



Migration dynamics in Armenia, thousands of people



Destinations and structure of migration, cumulative 2013–2018



Key takeaways

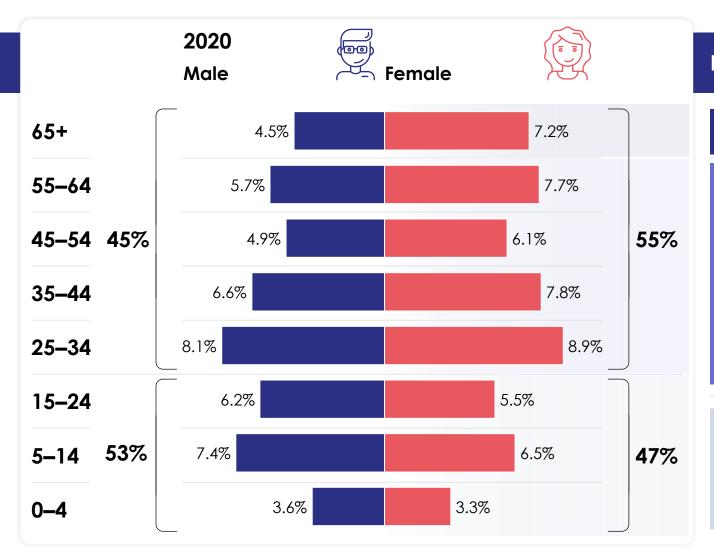
Over the last 6 years, Armenia has lost over 150,000 citizens due to net migration

Most emigrants were **men of active working age** emigrating
to Russia **for work**

The majority of immigrants were also **men**, who immigrated for a variety of reasons including **work**, **education/training**, **family formation and reunification**

1. Demographic changes are already influencing the composition of Armenia's population





Key trends

Life expectancy for men is ~5 years lower than for women (<2% of women smoke)

The gender split in the 25+ age group is significantly skewed towards women due to higher emigration by men seeking better sources of income for their households

As a result of the war, the share of the working age population will continue to decline due to war casualties, disabilities, thus creating vulnerabilities for the pension system

In addition, perceived insecurity and fear of another escalation may encourage parents to move their 14–18 year-old children out of the country, thereby exacerbating the problem

The threat of the **declining birth rate is linked to "gender-based abortions"**, which are dramatically affecting the gender split of people under 24

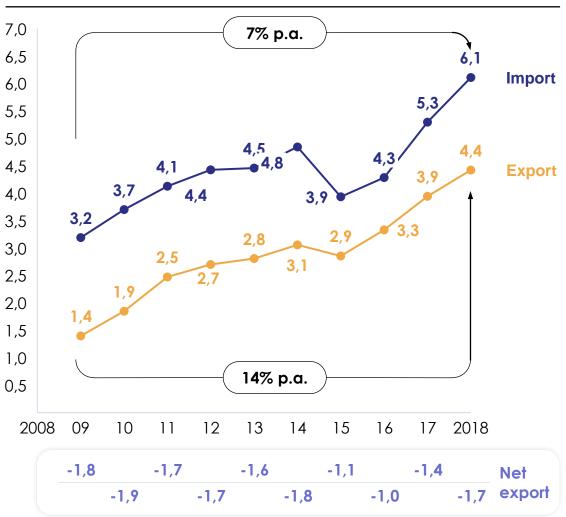
In the context of stagnating incomes and low savings, households tend to have as few children as possible

Source: UN

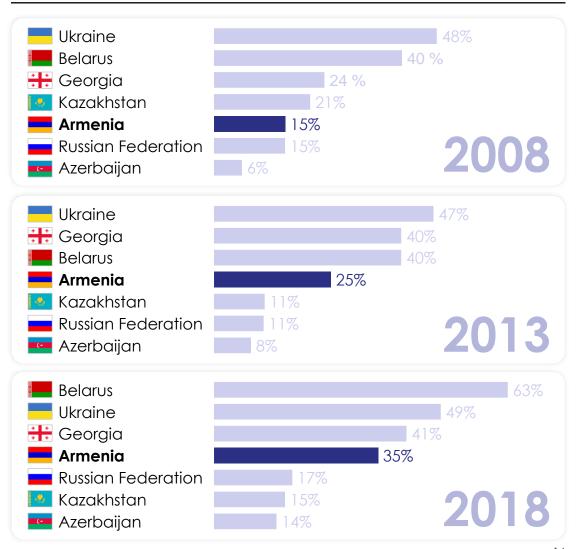
2. Armenia has been able to significantly increase exports but remains a net importer



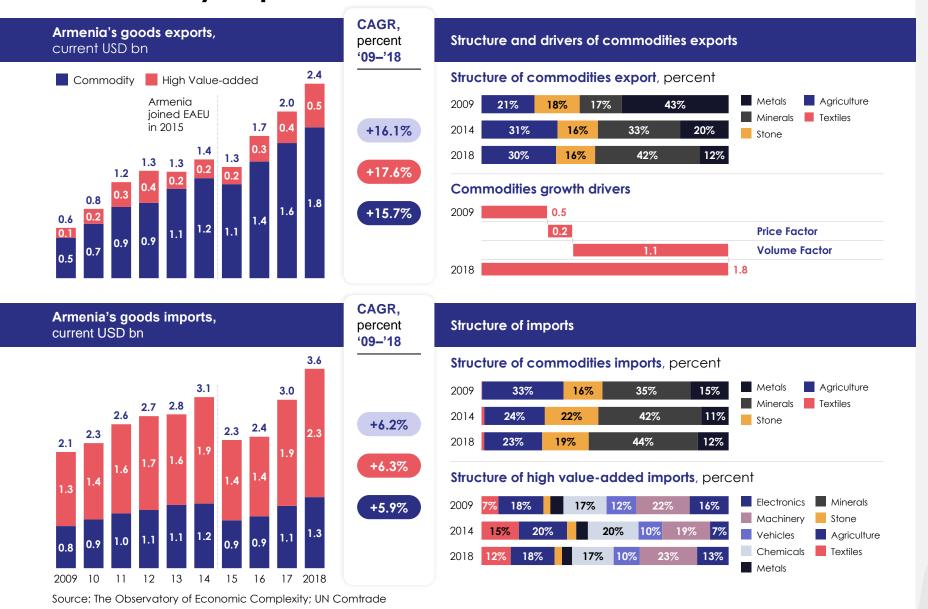
Trade volume, current USD bln



Export of goods & services vs selected peers, % GDP



2. Armenia's goods exports have been driven by growth in commodity export volumes





Key takeaways

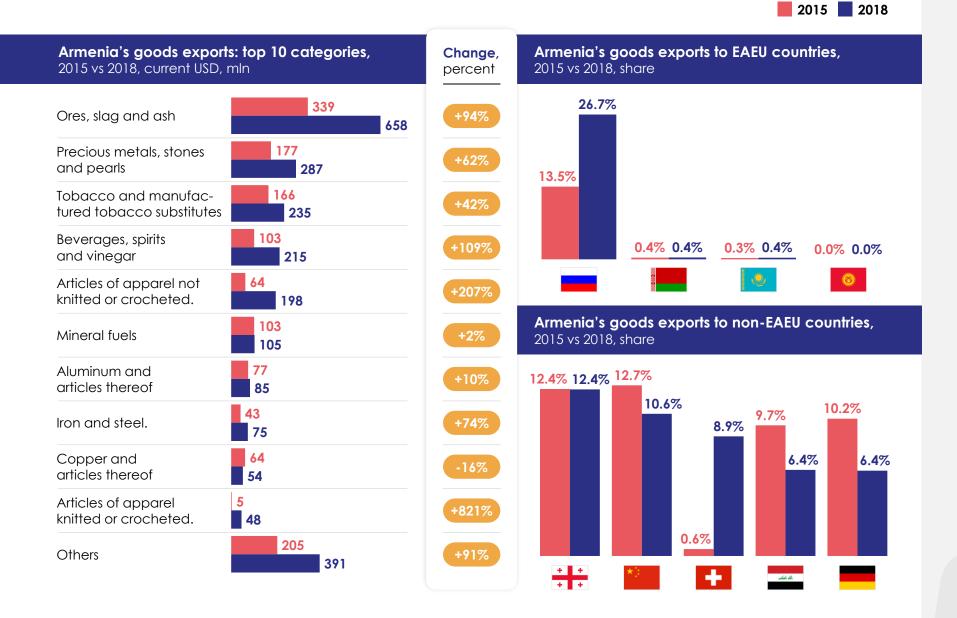
Armenia's goods exports consist primarily of commodities – minerals, metals and agricultural products

Though commodity exports have been primarily driven by increased volumes in certain categories, the price factor has been more noticeable (e.g. in Metals, growth has been driven by prices only, while in Stones, prices contributed ~1/3 of growth)

On the other hand, Armenia imports high value-added goods

2. Though trade with Russia has intensified, joining EAEU has not significantly changed the profile of Armenia's exports





Key takeaways

The new opportunities
generated by Armenia's
accession to the EAEU
remain insufficient to shift
exports away from
extractive activities

Copper ore and gold accounted for the largest segment of Armenia's exports in 2018

Trade with members of the Union increased mainly due to trade with the Russian Federation

3. While FDI played an important role in Armenia's

economic development until 2009, it has since declined

FDI inflows, USD mln

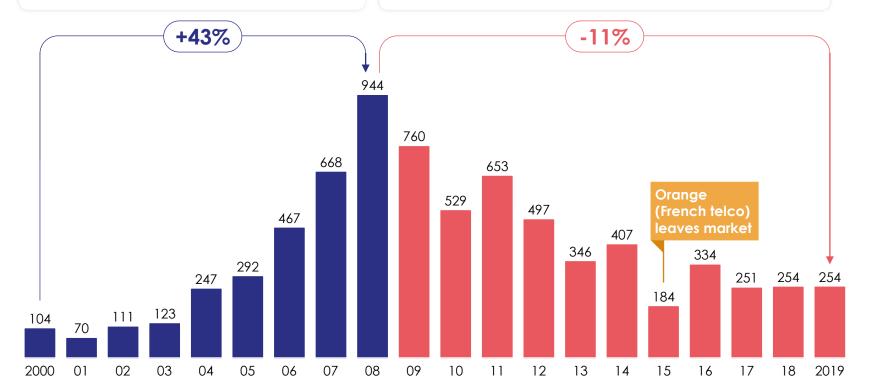
Growth driven by

- Diaspora capital flowing into real estate
- Privatization of mining, telecom and airport infrastructure

Decline driven by

- Global economic crisis
- Slowdown of infrastructure development
- Decline in investments from other countries







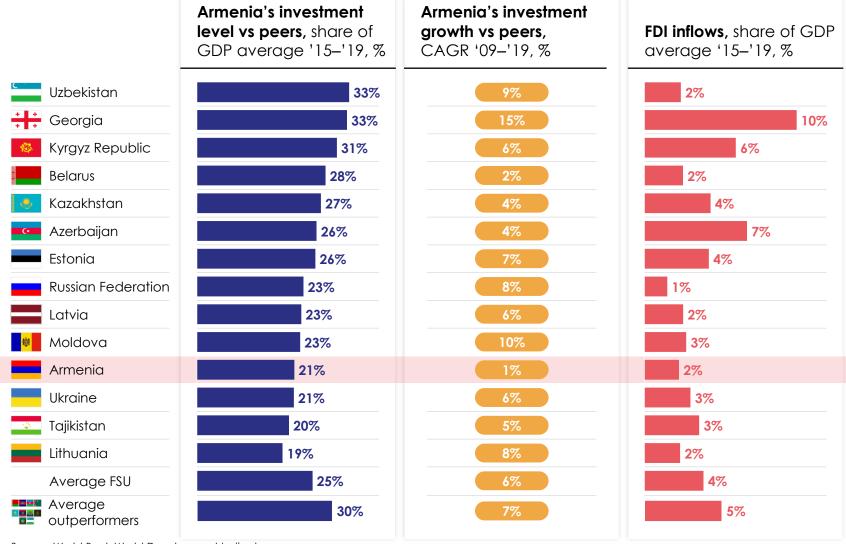
The strong increase in FDI since the late 1990s were driven by

- Privatization
- Foreign companies granted same rights as local companies
- **Investment guarantees** for foreign investors
- Attraction of FDI in the real estate sector

Since 2009, the decline has been driven by both external and internal factors such as

- Slowdown of the Russian economy
- Investment protection issues

3. Armenia has the forth lowest investment share of GDP among its peers, and investment growth has stalled in the last decade





Key takeaways

Armenia's investment (gross fixed capital formation) share of GDP declined from 34% in 2009 to 23% in 2019

From 2009 to 2014, Armenia saw a contraction in investment of -4% annually

In 2019, FDI account for 8% of total investment in Armenia, compared to 26% in 2009

FDI inflow from **Russian investors declined** from 53%
of total FDI in 2009 to 22%
in 2019

Source: World Bank World Development Indicators

4. Armenia's economic growth could be boosted by higher productivity growth

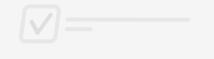




Armenia in 2019



Armenia has been closing the productivity gap with its FSU peers with one of the highest productivity growth rates, but the gap with the TOP-5, EE Aspiration and OECD is still substantial



Source: World Bank

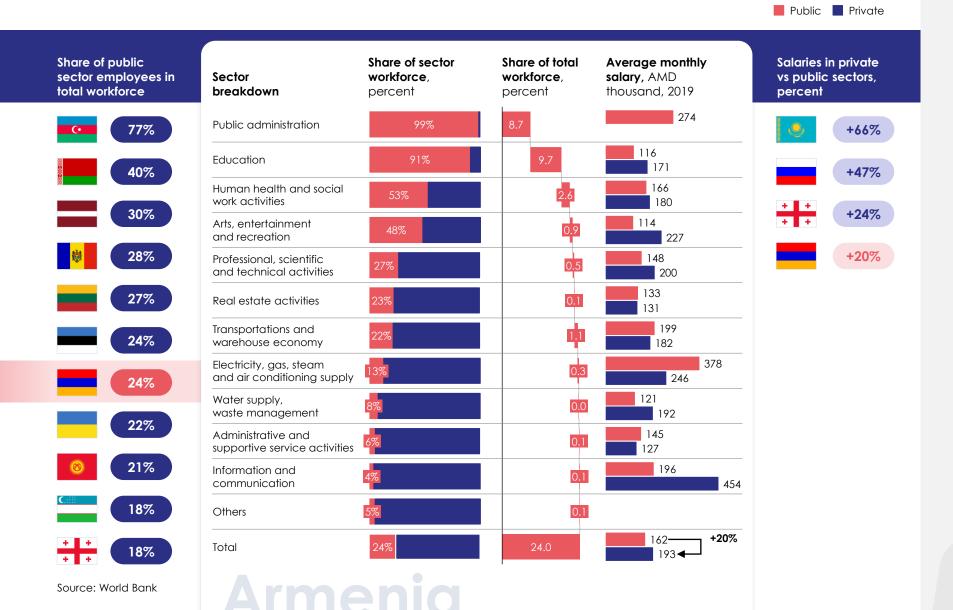


Average for Croatia, Bulgaria and Romania

^{2.} Population ages 15-64, total

4. The public sector employs 24% of the total workforce in Armenia





Key takeaways

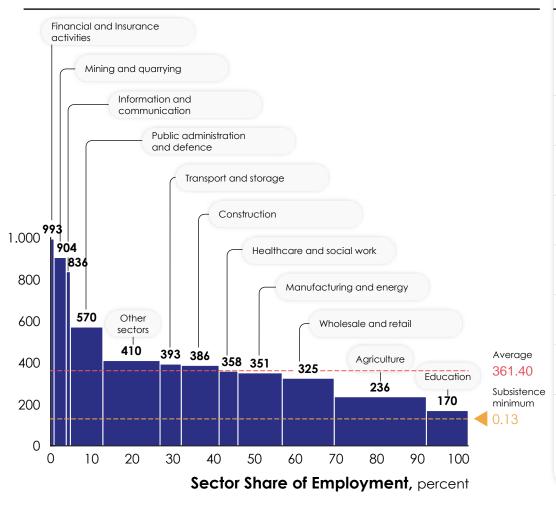
In comparison with its FSU peers, Armenia has one of the lowest shares of workforce employed by the public sector

Public administration, education and health account for nearly 90% of public sector employees in Armenia

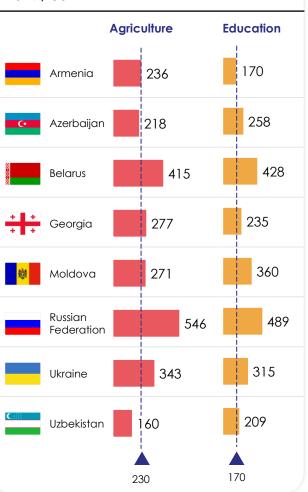
On average in Armenia, the gap between public and private sector salaries is nearly 20%

4. Wages are distributed unequally in Armenia; the lowest-paid jobs are in Agriculture and Education, which employ 30% of the workforce

Average nominal wage by sector, 2019, USD



Average monthly wage vs peers, 2019, USD



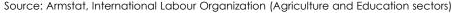


Key takeaways

Mining, IT and Finance sectors offer the **highest paid jobs** and employ only 5% of the workforce

Agriculture and Education employ 30% of the entire workforce but they are among the lowest-paid sectors

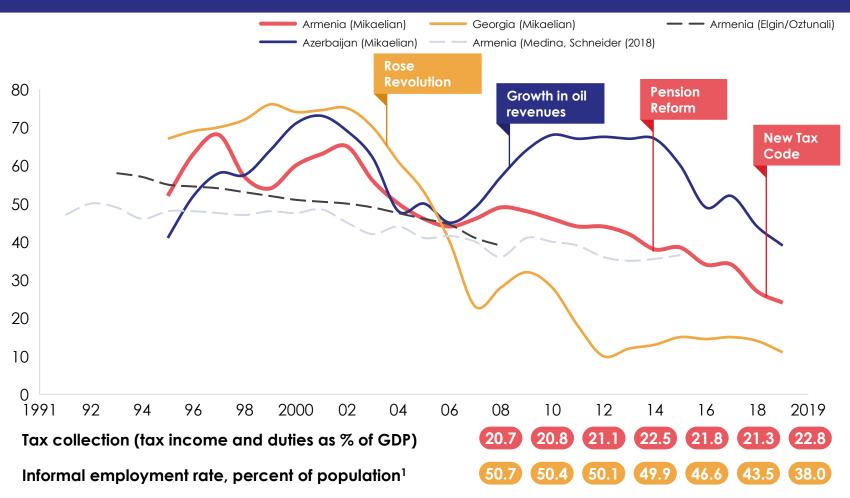
Attracting more people into higher-salary industries such as IT could also have a positive impact on overall productivity, and consequently, on salaries



4. The share of the informal economy in Armenia has declined from 37% to 24% in the last 5 years



Informal economy share in Armenia



Key takeaways

Most estimates show that the share of the informal economy in Armenia is gradually declining due to

- Continuous development of government institutions (tax and customs reforms)
- Increasing transparency in the economy (e.g. sales receipts monitoring)
- Anti-corruption activities

This has resulted in an increasing tax collection ratio and a substantial decrease in the informal employment rate (especially after the pension reform), while also contributing to GDP growth

Executive summary



Over the course of the past 10–15 years, Armenia's macro parameters (e.g., GDP CAGR of ~6%) have evolved in line with global and regional trends, which has not allowed the country to make a breakthrough given the low starting baseline.

Moreover, overly relying on consumer spending to drive economic growth cannot be sustainable and sufficient in the future. Three main levers need to be addressed to grow sustainably:

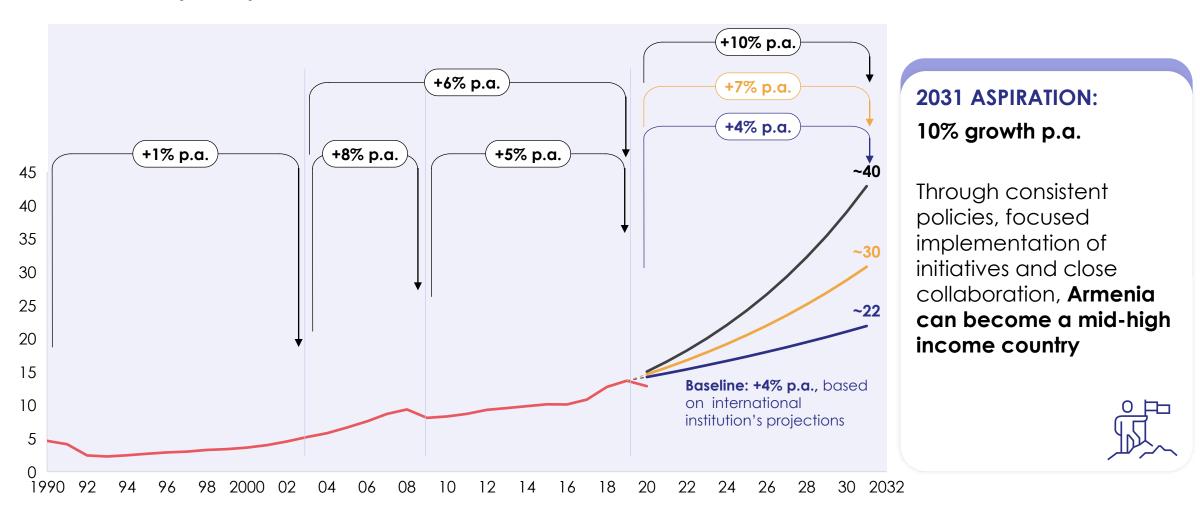
- Closing the import gap and becoming a net exporter of goods and services
- Boosting labor productivity (i.e., human capital)
- Attracting sizeable investments (e.g., for infrastructure)

Through collective efforts Armenia can overcome these barriers and leap towards achieving sustainable, high economic growth

Through collective efforts Armenia overcome main barriers and leap towards achieving sustainable, high economic growth



Armenia's GDP per capita PPP, constant USD thousands 2017



[.] Middle income

Source: World Bank; 2020 data is Armenia forecast as of February 2021