

Economy

Monthly

29 Dec 2022

Economic Flash

Slowing Vietnam's economy under growing uncertainties

Economic slows down on growing uncertainties

According to GSO's estimates, Vietnam's GDP (at 2010 constant price) decelerated in 4Q22 with a growth rate of 5.92% YoY, 7.80 percentage points (ppts)-lower than in the previous quarter, under the global slowdown and the fading low-base effect. External demand has significantly weakened under the worldwide phenomenon of the rate hike, resulting in poor performance of the export activity and its corresponding industrial production. Besides, domestic consumers tend to weigh more on income prospects, which likely became worse due to the prevailing business scale-down in industrial and real-estate sectors, in their buying decisions when the pent-up demand gradually disappeared.

Retail sales remains favorable on the seasonality

According to GSO's estimate, retail sales in December remained bright due to the current shopping season. However, the low-base effect was fading, resulting in a less impressive growth rate in the year-over-year comparison. Specifically, the YoY December growth rate was 1.06% in 2021 while that of the pre-pandemic level was at 12.03% and 12.72% in 2019 and 2018, respectively. In more detail, revenue from selling goods and services to customers during this period rose by 17.13% YoY, 3.44% higher than in November, and reached VND515.82tn.

Core CPI increases persistently

Traffics index played an important role in decelerating CPI this month. Specifically, CPI in December 2022 declined by 0.01% MoM and increased accordingly by 4.55% compared to the same period last year. In addition, core-CPI grew persistently at 0.33%MoM and 4.99%YoY. Regarding the yearly average change, CPI rose by 3.15% YoY this month which meets the government's target of 4.00% proposed in Resolution 01/NQ-CP on the social-economic development plan and tasks in 2022.

KIS leading economic index

	1Q22	2Q22	3Q22	4Q22	2020	2021	2022
GDP (%)	5.03	7.72	13.67	5.92	2.91	2.58	8.02
Trade balance (USD bn)	1.50	(0.75)	5.78	4.44	19.86	4.00	11.20
CPI (%)	2.50	2.96	3.32	4.41	3.24	1.84	3.15
Discount rate (%)	2.50	2.50	3.50	4.50	2.50	2.50	4.50
USD/VND	22,900	23,139	23,712	23,658	23,252	22,936	23,658
US GDP (% qoq, annualized)	(1.60)	NA	NA	NA	(3.40)	5.60	NA
China GDP (% yoy)	4.80	NA	NA	NA	2.20	8.00	NA
Source: KIS							

Contents

Macro scorecard14
VI. FDI registration declines12
V. Core CPI increases persistently10
IV. Retail sales remains favorable on the seasonality. $\ensuremath{8}$
III. Industrial production decelerates notably6
II. Trade deteriorates under the global slowdown 3
I. Economic slows down on growing uncertainties 1

Research Dept

researchdept@kisvn.vn

I. Economic slows down on growing uncertainties

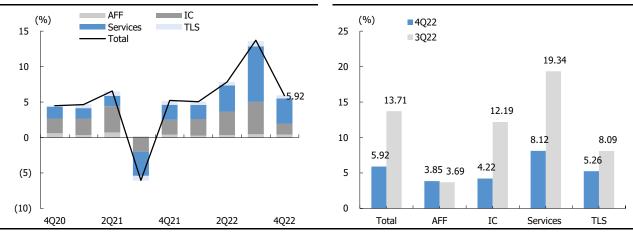
Economic slowdown under growing uncertainties

According to GSO's estimates, Vietnam's GDP (at 2010 constant price) decelerated in 4Q22 with a growth rate of 5.92% YoY, 7.80 percentage points (ppts)-lower than in the previous quarter, under the global slowdown and the fading low-base effect. External demand has significantly weakened under the worldwide phenomenon of the rate hike, resulting in poor performance of the export activity and its corresponding industrial production. Besides, domestic consumers tend to weigh more on income prospects, which likely became worse due to the prevailing business scale-down in industrial and real-estate sectors, in their buying decisions when the pent-up demand gradually disappeared.

Regarding sectoral development, services decelerated the most when the lowbase effect entered the last stage with a growth rate of 8.12% YoY, 11.23pptslower than 3Q22. Similarly, industrial and construction (IC) grew by 4.22% YoY due to the global slowdown and corresponding fewer orders to domestic manufacturers. In the stable development, AFF (agriculture, fishery, and forestry) rose by 3.85% YoY, nearly similar to its previous growth rate in 3Q22.

Figure 1. Historical GDP growths and sectoral contribution

Figure 2. GDP growth by main sector

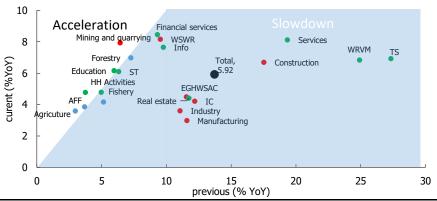


Notes: AFF= agriculture, forestry, and fishery; IC = industry and construction; TLS = taxes less subsidies on products.

Regarding the development of second-leveled sectors, the broad deceleration distributed almost equally in the IC sector when the growth rates of manufacturing, EGHWSAC (production & supply of electricity, gas, hot water, steam, and air-conditioning), WSWR (water supply; sewerage, waste management, and remediation activities), and construction reduced by 8.60ppts, 7.06ppts, 1.37ppts, and 10.84ppts, respectively. MQ (Mining and quarrying) exceptionally experienced an acceleration with a growth of 7.93% YoY, 1.50ppts-higher than 3Q22.

In the services sector, the overall slowdown tends to concentrate on a few industries whose performances previously took advantage of the low-base effect. In the extreme development, AC (accommodation & catering services) and AASS (administrative activity and supporting service) grew by 37.62% YoY and 38.32% YoY, 134.68ppts- and 87.18ppts-lower than 3Q22. Less notably, growth rates of WRVM (wholesales, retails, vehicles, and motorcycles repairs) and TS (transportation and storage) reduced by 18.09ppts and 20.42ppts. reaching 6.83% YoY and 6.92% YoY in this guarter, respectively.

Figure 3. Economic growth by sub-sector



Source: KIS, GSO

Notes: green dot indicates industry in services sector; red dot indicates industry in industry and construction (IC) sector; blue dot indicates industry in agriculture, forestry, and fishery sector,

AFF= agriculture, forestry, and fishery; IC = industry and construction; TLS = taxes less subsidies on products; WRVM: retail sales, wholesales, and sales of vehicles, motorcycles; TS = transportation and storage; Info = information and telecommunication; AC = accommodation and catering; EGHWSAC= production & supply of electricity, gas, hot water, steam and air-conditioning; WRVM= wholesales, retails, vehicles and motorcycles repairs; WSWR= water supply; sewerage, waste management and remediation activities; ST= scientific and technical specialty;

Although the economic slowdown in this quarter was notable and could indicate a challenging start for the next year, the economic growth for 2022 outperformed most predictions from economic agents. More specifically, the actual value of real GDP growth in this quarter beat five, including ADB, IMF, FTC, SCB, and MPI, over eight forecasts in our observation and was just 50bps lower than the most optimistic evaluation from Moody's.

Figure 4. Vietnam's economic growth by year

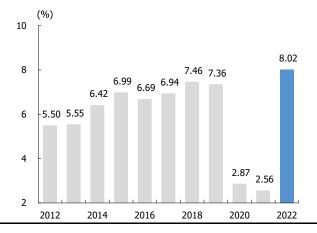
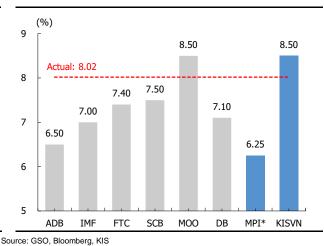


Figure 5. Expectations of Vietnam's economic growth by institution



Source: KIS, GSO

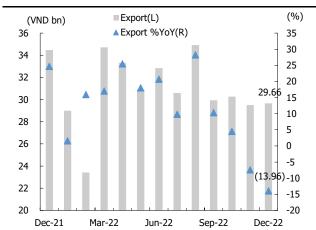
Notes: ADB= Asian Development Bank; IMF= International Monetary Fund; FTC= Fitch Ratings; SCB= Standard Chartered; MOO= Moody's; DB= Deutsche Bank MPI*: the average value of upper and lower from the forecast range of Vietnam's ministry of planning and investing (MPI) was used.

II. Trade deteriorates under the global slowdown

Trade shrunk on the rising fear of global recession

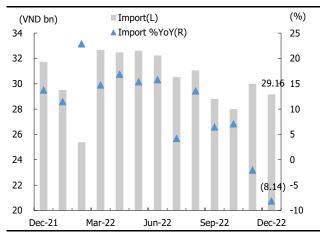
According to GSO, Vietnam trade activities in December were down further into the reduction zone this month when the New Year season in our major trading partners cannot reverse the downturn of new orders for domestic manufacturers. The export value of this period was lower than the previous month and the same period last year. The weak global demand and fewer new orders posted in recent PMI readings were mainly attributable to the trade performance this month. In more detail, export and import declined by 13.96% YoY and 8.14% YoY to USD29.66bn and USD29.16bn, resulting in a trade surplus of USD0.50bn this month.

Figure 6. Vietnam monthly export



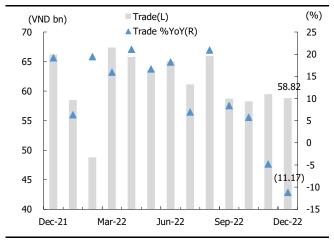
Source: GSO, Vietnam Custom, KIS

Figure 7. Vietnam monthly import



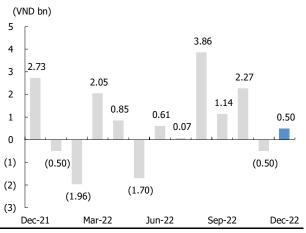
Source: GSO, Vietnam Custom, KIS

Figure 8. Vietnam monthly total trade



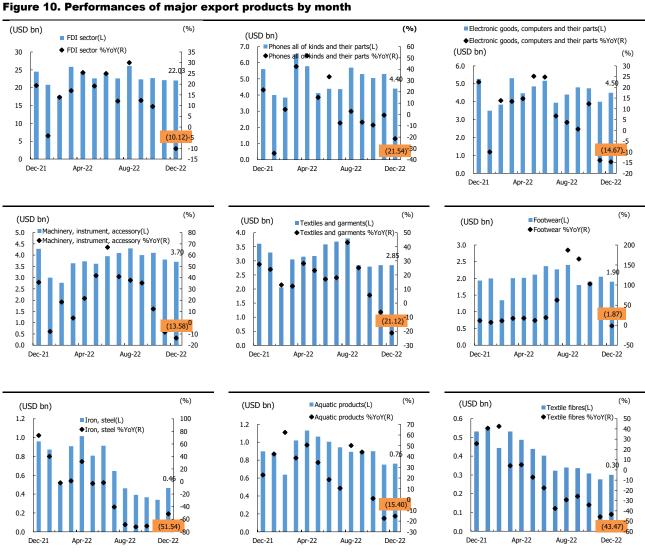
Source: GSO, Vietnam Custom, KIS

Figure 9. Vietnam monthly trade balance



Source: GSO, Vietnam Custom, KIS

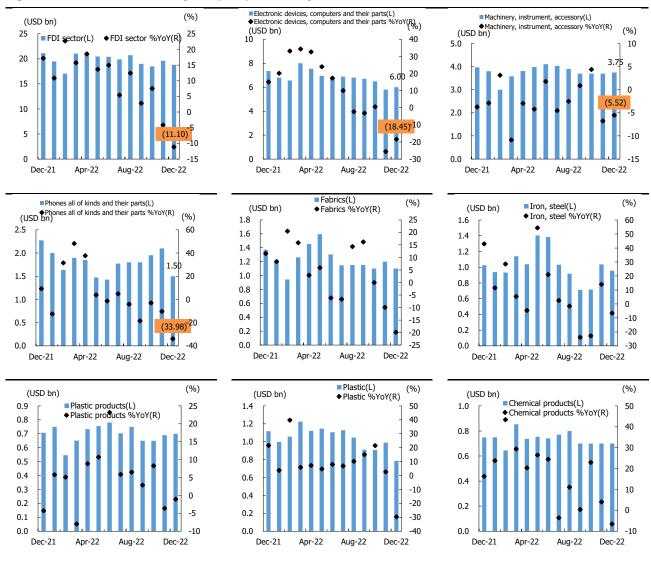
In the export structure, most flagship products show poor performance under the weak global demand, especially goods with a high concentration in the U.S. market. Accordingly, TMPP (phones and parts) recorded one more disappointing month with an export value of USD4.40bn, decreasing by 21.69% YoY. Export performance of phones seems tight with the outlook of Samsung Electronics, the South Korean tech giant, that smartphone consumption would be higher in the last quarter of 2022 due to the seasonality, but the growth has reduced significantly due to the weak demand resulting from tightening monetary policies. Similarly, other major products witnessed a deterioration this month. CEPP (electronic goods, computers, and parts), METI (machinery, instrument, accessory), TG (textiles and garments), and footwear declined by 14.67% YoY, 13.58% YoY, 21.12% YoY, and 1.87%, reaching USD4.50bn, USD3.70bn, USD2.85bn, and USD1.90bn, respectively.



Source: KIS, GSO

In the import structure, the overall reduction circulated equally across products. Most notably, most flagship products experienced deterioration this month. In detail, CEPP, METI, and TMPP declined by 18.45% YoY, 5.52% YoY, and 33.98% YoY, reaching USD6.00bn, USD3.75bn, and USD1.50bn, respectively.

Figure 11. Performances of major import products by month



Source: KIS, GSO

III. Industrial production decelerates notably

Industrial production decelerated significantly

Industrial production (IIP) decelerated notably with a month of no growth when the impact of fewer new orders and the gloomy global demand on domestic contract manufacturers became inevitable. Specifically, IIP rose by 0.19% YoY, 3.27ppts lower than its growth rate in November.

As per sectoral development, mining and quarrying (M&Q), the most prominent business line in the previous month, entered the red territory with a reduction of 5.06% YoY, primarily contributing to the broad deceleration of the whole industry. Less notably, EGSA (the production of electricity, gas, steam, and air conditioning supply), WSSWMR (the production of water supply; sewerage, waste management, and remediation activities), and manufacturing continued decelerating this month by growing by 1.31% YoY, 5.52% YoY, and 0.56% YoY, 1.37ppts-, 1.44ppts-, and 1.76ppts- lower than the previous month.

Figure 12. IIP % YoY by month

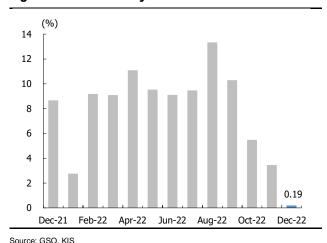
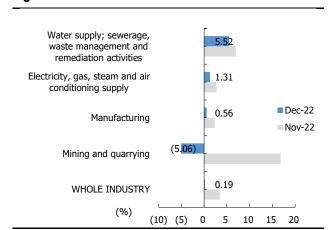


Figure 13. Movements of 1st-leveled sectors



Source: GSO, KIS

Although the slowdown happened widely in most sub-sectors, business lines with the domestic orientation accelerated impressively. Specifically, the manufacture of textiles and the manufacture of computer, electronic and optical products recorded reductions of 1.82% YoY and 1.93% YoY from increases of 5.33% YoY and 5.94% YoY in the previous month, respectively.

Oppositely, we saw positive signals from the manufacture of beverages and the manufacture of food products, due to the upcoming Tet season, with impressive growth rates of 42.08% YoY and 5.79% YoY.

Table 1. Movements of notable 2^{nd} -levelled sectors

Sector	Classification	Previous (%)	Current (%)
Manufacture of food products		7.07	5.79
Manufacture of beverages		22.13	42.08
Manufacture of textiles	Key	5.33	(1.82)
Manufacture of computer, electronic and optical products		5.94	(1.93)
Manufacture of electrical equipment		(13.88)	(14.50)
Mining of metal ores		0.9	44.04
Manufacture of beverages	Deet	22.13	42.08
Manufacture of pharmaceuticals, medicinal chemical and botanical products	Best	27.72	21.26
Manufacture of wood and of products of wood and cork		17.26	12.96
Sewerage and sewer treatment activities		10.43	(15.30)
Manufacture of furniture		(12.12)	(15.28)
Manufacture of electrical equipment	Worst	(13.88)	(14.50)
Manufacture of rubber and plastics products		(16.64)	(10.19)
Mining of coal and lignite		(4.97)	(7.12)

Source: GSO, KIS

IV. Retail sales remains favorable on the seasonality

The performance of retail sales remained strong

According to GSO's estimate, retail sales in December remained bright due to the current shopping season. However, the low-base effect was fading, resulting in a less impressive growth rate in the year-over-year comparison. Specifically, the YoY December growth rate was 1.06% in 2021 while that of the prepandemic level was at 12.03% and 12.72% in 2019 and 2018, respectively. In more detail, revenue from selling goods and services to customers during this period rose by 17.13% YoY, 3.44% higher than in November, and reached VND515.82tn.

The retail sector is primarily devoted to the slowdown of the whole industry with a modest growth rate of 12.76%, 2.06ppts higher than the previous month. In the excessive movement, revenues from accommodation and catering (A&C) and traveling services witnessed slowdowns, where A&C's growth rate slowdowned by one-third compared to last month to 33.35%. Notably, traveling service grew at roughly threefold less than the previous month and stood at 113.25% YoY.

Figure 14. Monthly retail sales

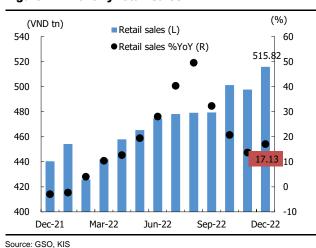
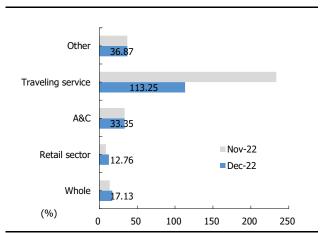


Figure 15. Components of retail Sales



Source: GSO, KIS

Despite bright performance in A&C and traveling services, their shares in the structure of retail sales retraced as people forgo discretionary services in response to lower earnings reported in our 2023 Outlook. The proportion of the retail sector slightly regained to 78.33% this month, while A&C and traveling accounted for 9.87%. The government's initiatives to attract international visitors and the fast recovery of A&C and traveling services could reestablish the retail sales structure to its pre-pandemic shape, where the retail sector, A&C, and traveling services accounted for approximately 75%, 15%, and 1%, respectively.

Total retail sales have room to rebound back to the pre-pandemic level As of December 2022, total retail sales of consumer goods in Vietnam were still 13.50% below the pre-pandemic trend level (calculated using the average MoM growth rate during 2015-19 with the assumption that the growth rate over 2020-22 equals the average rate over 2015-19).

Since the reopening in Oct 2021, total retail sales started recovering with a faster average MoM growth of 2.81% compared to 0.79% MoM in the prepandemic level 2015-19 due to the low base effect and pent-up demand. Currently, consumers tend to reduce discretionary spending on consumer goods as the grey gamut covers the economy, but retail sales still have nearly 13.50% room to rebound back to the pre-pandemic growth level. Despite strong recovery after normalization, A&C and traveling services are still far below the pre-pandemic trend line level by -36.12% and -65.55%, respectively. In contrast, the retail sector shrank, recovered less dramatically, and is 5.57% below the trend line.

Figure 16. Total retail sales: Actual vs Pre-pandemic trend

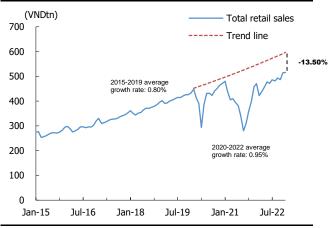
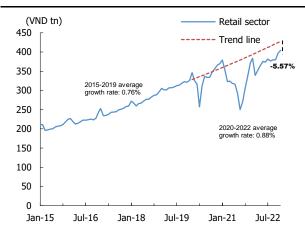


Figure 17. Retail sectors: Actual vs Pre-pandemic trend



Source: GSO, KIS

Figure 18. Accommodation and catering: Actual vs Pre-pandemic trend

Source: GSO, KIS

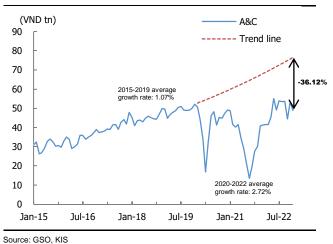
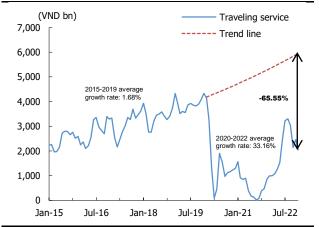


Figure 19. Traveling services: Actual vs Pre-pandemic trend



Source: GSO, KIS

....

V. Core CPI increases persistently

Lower Traffics mainly decelerates CPI

According to GSO's release, traffics index played an important role in decelerating CPI this month. Specifically, CPI in December 2022 declined by 0.01% MoM and increased accordingly by 4.55% compared to the same period last year. Regarding sectoral contributions, traffics, postal services and telecommunication decreased by 2.78% MoM, and 0.04% MoM contributed 27 basis points (bps) and 1bps to CPI's decrease, respectively. In the opposite direction, nine over eleven items in CPI's basket all witnessed an increase. Accordingly, Food and foodstuffs (FFs), housing and construction materials (HCM), beverage and cigarette (BAC), and education all increased by 0.15%, 0.66%, 0.44%, and 0.32% compared with last month respectively.

Figure 20. Monthly CPI change and its contributor

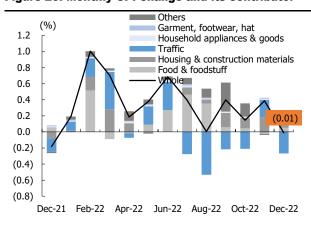


Table 2. Monthly CPI change by item

Item	Weight (%)	% MoM	% YoY
	Weight (70)	76 IVIOIVI	/0 101
Food and foodstuff	33.56	0.15	5.21
Beverage and cigarette	2.73	0.44	3.79
Garment, Footwear, hat	5.70	0.41	2.43
Housing and construction materials	18.82	0.66	7.14
Household appliances and goods	6.74	0.22	2.66
Medicine and health care	5.39	0.08	0.59
Traffic	9.67	-2.78	-0.16
Postal services & Telecommunication	3.14	-0.04	-0.25
Education	6.17	0.32	11.80
Culture. entertainment and tourism	4.55	0.09	5.02
Other goods and services	3.53	0.23	3.17
Consumer Price Index	100.00	-0.01	4.55

Source: GSO, KIS

Source: GSO, KIS

Taking CPI's contributors at the product-level into consideration, the downward pressure from traffics index resulted from three adjustments in domestic petrol price in December. Specifically, after 3 adjustments in December, the price of gasoline has declined by around 7.29% compared to the previous month.

On the contrary, food increased by 0.48% due to stable export rice prices at a high level along with increased consumer demand at the end of the year, causing a slight increase in rice prices, contributing to the rise of (FFs). Besides, the increase in gas prices acted as a catalyst for the rise of HCM. In detail, the world gas price jumped from USD610 per ton to USD650 per ton which pushed the domestic gas price to increase VND14,0000/12kg cylinder.

Figure 21. Yearly CPI and Core-CPI

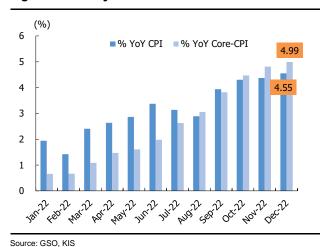
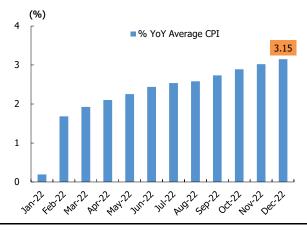


Figure 22. Average yearly CPI



Source: GSO, KIS

Taking core inflation into consideration, it can be seen that core-CPI grew persistently at 0.33%MoM and 4.99%YoY. Besides, average core inflation increased by 2.59% compared to 2021, lower than the overall average CPI (up by 3.15%), which reflects fluctuations in consumer prices mainly due to food, gasoline, and oil and gas prices.

Regarding the yearly average change, CPI rose by 3.15% YoY this month which meets the government's target of 4.00% proposed in Resolution 01/NQ-CP on the social-economic development plan and tasks in 2022.

VI. FDI registration declines

Registered FDI falls

According to the latest update from the Ministry of Planning and Investment (MOIT), a notable decline was seen in December's registered FDI by 3.41% compared with previous month and by 44.94%YoY, respectively. To be more specific, the registration value from foreign investors in December was USD2.58bn, including USD0.93bn of new, USD0.58bn of the addition, and USD1.08bn of the share purchase. Conversely, the total disbursed FDI in December showed a positive sign. Specifically, the disbursement of foreign capital this month was USD2.72bn, increasing significantly by 21.79% MoM and inching up by 2.88% compared with the same period last year.

Figure 23. Monthly registered FDI

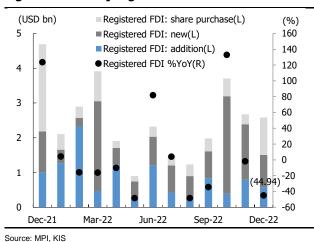
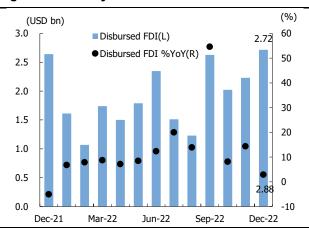


Figure 24. Monthly disbursed FDI



Source: MPI, KIS

Figure 25. Yearly registered FDI

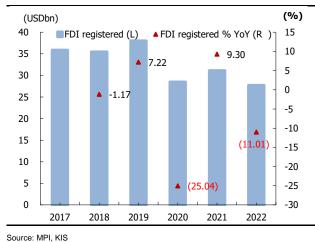
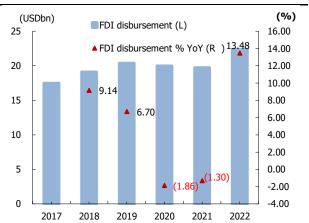


Figure 26. Yearly disbursed FDI

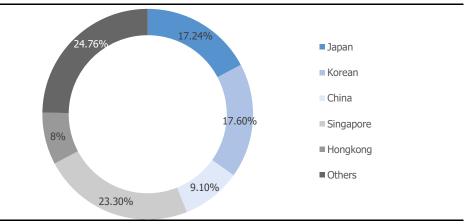


Source: MPI, KIS

For the whole year, the total registered FDI for 2022 reached around USD27.72bn, 11.01% lower compared with 2021. On the other hand, disbursed FDI posted at USD22.40bn, gaining 13.48% compared with last year. However, although a decline was seen in the total FDI in Vietnam this year, the FDI in the real estate sector witnessed a surge. Specifically, foreign investment in the real estate sector in 2022 has increased by USD1.85bn, equivalent to an increase of more than 70% compared to the whole year of 2021.

We believe that the rise in FDI in the real estate sector shows that foreign investors still put their faith in the development potential of Vietnam. Besides, sectors such as industrial and logistics real estate, development land, hotels, and offices are being sought after by foreign investors. Even though the FDI inflows may be affected by the bleak global economic outlook for 2023, we expect that the FDI will still increase slightly because Vietnam is still considered a country with many competitive advantages in the production shift trend out of China.

Figure 27. FDI by countries



Source: KIS, GSO

By country, there are 108 countries and territories investing in Vietnam in 11 months of 2022. Singapore continues to rank first in a total investment of more than USD 6.46bn, accounting for 23.30% of total investment capital in Vietnam, decreased by 39.7% compared to the same period in 2021. Korea ranked second with over USD 4.88bn, accounting for 17.60% of total registered FDI. Japan ranked third with a total registered investment capital of over USD 4.78bn, accounting for 17.24% of total investment capital, followed by China, Hong Kong, and Taiwan.

Table 3. Notable projects of 2022

Project	Origin country	12-month of 2022 registration (USD bn)	Accumulated registration (USD bn)	Location
Lego	Denmark		1.30	Binh Duong
Thermal Project O Mon II	Japan		1.33	Can Tho
VSIP Bac Ninh	Singapore	0.94	1.70	Bac Ninh
Samsung Electro- mechanism	Korea	0.92	2.27	Thai Nguyen
GoerTek	China	0.40	0.50	Nghe An
LG Display VietNam	Korea	1.40	4.65	Hai Phong

Source: GSO, MPI, KIS

Macro scorecard

	22-Aug	22-Sep	22-Oct	22-Nov	22-Dec	1Q22	2Q22	3Q22	4Q22	2019	2020	2021	2022
Real GDP growth (%)						5.03	7.72	13.67	5.92	7.03	2.91	2.58	8.02
Registered FDI (USD bn)	1.23	1.92	2.05	2.67	2.58	8.91	5.12	4.67	8.96	38.02	28.53	31.15	27.72
GDP per capita (USD)										3,398	3,521	3,725	
Unemployment rate (%)										2.25	2.48	3.22	
Export (USD bn)	33.38	29.94	30.27	29.50	29.66	86.01	96.83	96.48	89.50	263.6	282.7	335.7	371.85
Import (USD bn)	30.96	28.80	28.00	30.00	29.16	87.45	97.58	90.71	85.07	254.4	263	331.1	360.65
Export growth (%)	22.14	10.35	4.54	(7.40)	(13.96)	13.43	21.02	17.22	(6.07)	8.16	7.02	18.74	10.61
Import growth (%)	12.42	6.45	7.08	(2.04)	(8.14)	15.17	15.72	8.12	(3.90)	7.41	3.81	25.9	8.35
Inflation (%)	2.89	3.94	4.30	4.37	4.55	1.92	2.96	3.32	4.41	2.79	3.24	1.84	3.15
USD/VND	23,417	23,712	24,839	24,800	23,658	22,837	23,139	23,712	23,658	23,173	23,126	22,790	23,650
Credit growth (%)	9.62	10.47	11.50	11.50	12.87	4.13	8.51	10.47	12.87	13.75	12.17	12.97	12.87
10Y gov't bond (%)	3.37	4.39	4.95	4.91	5.08	2.40	3.38	4.39	5.08	3.37	2.01	2.11	5.08

Source: GSO, Bloomberg, FIA, IMF

Global Disclaimer

■ General

This research report and marketing materials for Vietnamese securities are originally prepared and issued by the Research Center of KIS Vietnam Securities Corp., an organization licensed with the State Securities Commission of Vietnam. The analyst(s) who participated in preparing and issuing this research report and marketing materials is/are licensed and regulated by the State Securities Commission of Vietnam in Vietnam only. This report and marketing materials are copyrighted and may not be copied, redistributed, forwarded or altered in any way without the consent of KIS Vietnam Securities Corp..

This research report and marketing materials are for information purposes only. They are not and should not be construed as an offer or solicitation of an offer to purchase or sell any securities or other financial instruments or to participate in any trading strategy. This research report and marketing materials do not provide individually tailored investment advice. This research report and marketing materials do not take into account individual investor circumstances, objectives or needs, and are not intended as recommendations of particular securities, financial instruments or strategies to any particular investor. The securities and other financial instruments discussed in this research report and marketing materials must make their own independent decisions regarding any securities or financial instruments mentioned herein and investors should seek the advice of a financial adviser. KIS Vietnam Securities Corp., does not undertake that investors will obtain any profits, nor will it share with investors any investment profits. KIS Vietnam Securities Corp., its affiliates, or their affiliates and directors, officers, employees or agents of each of them disclaim any and all responsibility or liability whatsoever for any loss (director consequential) or damage arising out of the use of all or any part of this report or its contents or otherwise arising in connection therewith. Information and opinions contained herein are subject to change without notice and may differ or be contrary to opinions expressed by other business areas or KIS Vietnam Securities Corp. The final investment decision is based on the client's judgment, and this research report and marketing materials cannot be used as evidence in any legal dispute related to investment decisions.

■ Country-specific disclaimer

United States: This report is distributed in the U.S. by Korea Investment & Securities America, Inc., a member of FINRA/SIPC, and is only intended for major U.S. institutional investors as defined in Rule 15a-6(a)(2) under the U.S. Securities Exchange Act of 1934. All U.S. persons that receive this document by their acceptance thereof represent and warrant that they are a major U.S. institutional investor and have not received this report under any express or implied understanding that they will direct commission income to Korea Investment & Securities, Co., Ltd. or its affiliates. Pursuant to Rule 15a-6(a)(3), any U.S. recipient of this document wishing to effect a transaction in any securities discussed herein should contact and place orders with Korea Investment & Securities America, Inc., which accepts responsibility for the contents of this report in the U.S. The securities described in this report may not have been registered under the U.S. Securities Act of 1933, as amended, and, in such case, may not be offered or sold in the U.S. or to U.S. person absent registration or an applicable exemption from the registration requirement.

United Kingdom: This report is not an invitation nor is it intended to be an inducement to engage in investment activity for the purpose of section 21 of the Financial Services and Markets Act 2000 of the United Kingdom ("FSMA"). To the extent that this report does constitute such an invitation or inducement, it is directed only at (i) persons who are investment professionals within the meaning of Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005 (as amended) of the United Kingdom (the "Financial Promotion Order"); (ii) persons who fall within Articles 49(2)(a) to (d) ("high net worth companies, unincorporated associations etc.") of the Financial Promotion Order; and (iii) any other persons to whom this report can, for the purposes of section 21 of FSMA, otherwise lawfully be made (all such persons together being referred to as "relevant persons"). Any investment or investment activity to which this report relates is available only to relevant persons and will be engaged in only with relevant persons. Persons who are not relevant persons must not act or rely on this report.

Hong Kong: This research report and marketing materials may be distributed in Hong Kong to institutional clients by Korea Investment & Securities Asia Limited (KISA), a Hong Kong representative subsidiary of Korea Investment & Securities Co., Ltd., and may not otherwise be distributed to any other party. KISA provides equity sales service to institutional clients in Hong Kong for Korean securities under its sole discretion, and is thus solely responsible for provision of the aforementioned equity selling activities in Hong Kong. All requests by and correspondence with Hong Kong investors involving securities discussed in this report and marketing materials must be effected through KISA, which is registered with The Securities & Futures Commission (SFC) of Hong Kong. Korea Investment & Securities Co., Ltd. is not a registered financial institution under Hong Kong's SFC.

Singapore: This report is provided pursuant to the financial advisory licensing exemption under Regulation 27(1)(e) of the Financial Advisers Regulation of Singapore and accordingly may only be provided to persons in Singapore who are "institutional investors" as defined in Section 4A of the Securities and Futures Act, Chapter 289 of Singapore. This report is intended only for the person to whom Korea Investment & Securities Co., Ltd. has provided this report and such person may not send, forward or transmit in any way this report or any copy of this report to any other person. Please contact Korea Investment & Securities Singapore Pte Ltd in respect of any matters arising from, or in connection with, the analysis or report (Contact Number: 65 6501 5600).

Copyright © 2022 KIS Vietnam Securities Corp. All rights reserved. No part of this report may be reproduced or distributed in any manner without permission of KIS Vietnam Securities Corp.



VIET NAM

JAE HEUNG LEE, Business Director (jhlee@kisvn.vn +8428 3914 8585 - 1466) UYEN LAM, Head of Institutional Brokerage (uyen.lh@kisvn.vn +8428 3914 8585 - 1444) KIS Vietnam Securities Corporation

3rd floor, 180-192 Nguyen Cong Tru, Nguyen Thai Binh Ward, District 1, Ho Chi Minh City.

Fax: 8428 3821-6898

SOUTH KOREA

YEONG KEUN JOO, Managing Director, Head of International Business Division (ykjoo@truefriend.com, +822 3276 5157)

PAUL CHUNG, Sales Trading (pchung@truefriend.com +822 3276 5843)

27-1 Yoido-dong, Youngdeungpo-ku, Seoul 150-745, Korea Toll free: US 1 866 258 2552 HK 800 964 464 SG 800 8211 320

Fax: 822 3276 5681~3

Telex: K2296

NEW YORK

DONG KIM, Managing Director (dkim@kisamerica.com +1 212 314 0681) HOON SULL, Head of Sales (hoonsull@kisamerica.com +1 212 314 0686) Korea Investment & Securities America, Inc. 1350 Avenue of the Americas, Suite 1110 New York NY 10019

Fax: 1 212 314 0699

HONG KONG

GREGORY KIM, Managing Director, Head of HK Sales (greg.kim@kisasia.com, +822 2530 8915 Korea Investment & Securities Asia. Ltd. Suite 2220, Jardine House 1 Connaught Place, Central, Hong Kong

Fax: 852-2530-1516

SINGAPORE

ALEX JUN, Managing Director, Head of Singapore Sales (alex@kisasia.com.sg +65 6501 5602) CHARLES AN, Sales (alex.jun@kisasia.com.sg +65 6501 5601) Korea Investment & Securities Singapore Pte Ltd 1 Raffles Place, #43-04, One Raffles Place Singapore 048616 Fax: 65 6501 5617

LONDON

Min Suk Key, Managing Director (peterkey@kiseurope.com +44 207 065 2766) Korea Investment & Securities Europe, Ltd. 2nd Floor, 35-39 Moorgate London EC2R 6AR

Fax: 44-207-236-4811

INDONESIA

JONG IN HONG, Managing Director (Jay.hong@kisi.co.id 62 813 1947 1984)

Korea Investment & Sekuritas Indonesia

Equity tower, 9th & 22nd Floor Suite A SCBD Lot 9. JI Jenderal Sudirman Kav. 52-53, Jakarta 12190 Indonesia

Fax: 62 21 299 11 999

This report has been prepared by KIS Vietnam Securities Corp. and is provided for information purposes only. Under no circumstances is it to be used or considered as an offer to sell, or a solicitation of any offer to buy. While all reasonable care has been taken to ensure that the information contained herein is not untrue or misleading at the time of publication, we make no representation as to its accuracy or completeness and it should not be relied upon as such. This report is provided solely for the information of professional investors who are expected to make their own investment decisions without undue reliance on this report and the company accepts no liability whatsoever for any direct or consequential loss arising from any use of this report or its contents. This report is not intended for the use of private investors

Copyright @ 2020 KIS Vietnam Securities Corp. All rights reserved. No part of this report may be reproduced or distributed in any manner without permission of KIS Vietnam Securities Corp.