

PROHIBITION OF SALES TO EEA RETAIL INVESTORS – The Securities are not intended to be offered, sold or otherwise made available to, and should not be offered, sold or otherwise made available to, any retail investor in the European Economic Area. For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, "MiFID II"); (ii) a customer within the meaning of Directive (EU) 2016/97, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (iii) not a qualified investor as defined in Regulation (EU) 2017/1129 (as amended, the "EU Prospectus Regulation"). Consequently no key information document required by Regulation (EU) No 1286/2014 (as amended, the "EU PRIIPs Regulation") for offering or selling the Securities or otherwise making them available to retail investors in the European Economic Area has been prepared and therefore offering or selling the Securities or otherwise making them available to any retail investor in the European Economic Area may be unlawful under the EU PRIIPs Regulation. Notwithstanding the above, if the Issuer subsequently prepares and publishes a key information document under the EU PRIIPs Regulation in respect of the Securities, then the prohibition on the offering, sale or otherwise making available the Securities to a retail investor in the European Economic Area as described above shall no longer apply.

PROHIBITION OF SALES TO UK RETAIL INVESTORS – The Securities are not intended to be offered. sold or otherwise made available to, and should not be offered, sold or otherwise made available to, any retail investor in the United Kingdom ("UK"). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client, as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of UK domestic law by virtue of the European Union (Withdrawal) Act 2018 (as amended, the "EUWA"); or (ii) a customer within the meaning of the provisions of the Financial Services and Markets Act 2000 (as amended, the "FSMA") and any rules or regulations made under the FSMA to implement Directive (EU) 2016/97, where that customer would not qualify as a professional client, as defined in point (8) of Article 2(1) of Regulation (EU) No 600/2014 as it forms part of domestic law by virtue of the EUWA; or (iii) not a qualified investor as defined in Article 2 of Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the EUWA and regulations made thereunder (the "UK Prospectus Regulation"). Consequently no key information document required by Regulation (EU) No 1286/2014 as it forms part of UK domestic law by virtue of the EUWA (as amended, the "UK PRIIPs Regulation") for offering or selling the Securities or otherwise making them available to retail investors in the United Kingdom has been prepared and therefore offering or selling the Securities or otherwise making them available to any retail investor in the United Kingdom may be unlawful under the UK PRIIPs Regulation. Notwithstanding the above, if the Issuer subsequently prepares and publishes a key information document under the UK PRIIPs Regulation in respect of the Securities, then the prohibition on the offering, sale or otherwise making available the Securities to a retail investor in the United Kingdom as described above shall no longer apply.

The Notes may only be publicly offered and the Offering Circular and this Pricing Supplement as well as any other offering or marketing material relating to the Notes may only be publicly offered to investors in Switzerland pursuant to an exception from the prospectus requirement under the Swiss Financial Services Act ("**FinSA**"), as such terms are defined under the FinSA. Neither this document nor the Offering Circular nor any other document related to the Notes constitute a prospectus with the meaning of the FinSA and no prospectus pursuant to the FinSA will be prepared in connection with such public offering of the Notes.

Pricing Supplement dated November 8, 2022

GOLDMAN SACHS INTERNATIONAL

Legal Entity Identifier (LEI): W22LROWP2IHZNBB6K528

Series P Programme for the issuance of Warrants, Notes and Certificates

Issue of ZAR 5,000,000 1-Year Floating Rate Notes linked to the 3 Month ZAR JIBAR, due November 8, 2023 (the "Notes" or the "Securities")

The Securities are not bank deposits and are not insured or guaranteed by the UK Financial Services Compensation Scheme, the Jersey Depositors Compensation Scheme, the United States Federal Deposit Insurance Corporation, the U.S. Deposit Insurance Fund or any other government or governmental or private agency or deposit protection scheme in any jurisdiction.

The payment obligations of the Issuer in respect of the Securities are not guaranteed by any entity

The Offering Circular referred to below (as completed by this Pricing Supplement) has been prepared on the basis that any offer of Notes in any member state of the European Economic Area or in the United Kingdom will be made pursuant to an exemption under Regulation (EU) 2017/1129 (as amended, the "EU Prospectus Regulation") or Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018 (as amended, the "EUWA") and regulations made thereunder (the "UK Prospectus Regulation"), as applicable, from the requirement to publish a prospectus for offers of the Notes. Accordingly any person making or intending to make an offer of the Notes in any member state of the European Economic Area or in the United Kingdom may only do so in circumstances in which no obligation arises for the Issuer or any Dealer to publish a prospectus pursuant to Article 3 of the EU Prospectus Regulation or the UK Prospectus Regulation in relation to such offer. Neither the Issuer nor any Dealer has authorised, nor do they authorise, the making of any offer of Notes in any other circumstances.

CONTRACTUAL TERMS

Terms used herein shall be deemed to be defined as such for the purposes of the General Note Conditions and the applicable Specific Product Conditions each set forth in (i) the Offering Circular dated November 19, 2021 (the "Offering Circular") as supplemented by the supplement(s) to the Offering Circular listed in the section entitled "Supplement(s) to the Offering Circular" below (and any further supplements up to, and including, November 8, 2022) or (ii) the JSE Placement Document for the issuance of South African Securities dated 6 October 2022 (the "JSE Placement Document"). This document must be read in conjunction with such Offering Circular and JSE Placement Document as so supplemented. Full information on the Issuer and the offer of the Notes is only available on the basis of the combination of this Pricing Supplement, the JSE Placement Document and the Offering Circular as so supplemented. The Offering Circular and the supplement(s) to the Offering Circular are available for viewing at www.bourse.lu and during normal business hours at the registered office of the Issuer, and copies may be obtained from the specified office of the Luxembourg Paying Agent. The JSE Placement Document is available for viewing on the Issuer's website at www.goldmansachs.co.za/en/services/pricingsupplements and copies of which may be obtained free of charge from the Specified Office of the South African Transfer Agent.

1.	Issuer:	Goldman Sachs International.

2.	(i)	ISIN:	ZAG000191198.
	(ii)	Common Code:	GS0009.
	(iii)	Tranche Number:	One.

	(iv) PIPG Tranche Number:	546372.
3.	Specified Currency or Currencies:	South African Rand ("ZAR").
4.	Aggregate Nominal Amount:	
	(i) Series:	ZAR 5,000,000.
	(ii) Tranche:	ZAR 5,000,000.
5.	Issue Price:	100.00 per cent. (100%) of the Aggregate Nominal Amount.
6.	Inducements, commissions and/or other fees:	Not Applicable.
7.	(i) Specified Denomination:	ZAR 1,000,000.
	(ii) Calculation Amount:	ZAR 1,000,000.
	(iii) Minimum Denomination:	The Notes shall be issuable in minimum denominations of ZAR 1,000,000 and integral multiples of ZAR 1,000,000 in excess thereof.
8.	Issue Date:	November 8, 2022.
9.	Maturity Date:	The Maturity Date shall be the Interest Payment Date scheduled to fall on November 8, 2023 (the "Scheduled Maturity Date").
		The postponement referred to in paragraph (i) of the definition of "Maturity Date" in General Note Condition 2(a) (<i>Definitions</i>) shall not apply.
10.	Underlying Asset(s):	Not Applicable.
VAL	JUATION DATE PROVISIONS	
11.	Valuation Date(s):	Not Applicable.
12.	Initial Valuation Date(s):	Not Applicable.
13.	Averaging Date(s):	Not Applicable.
14.	Initial Averaging Date(s):	Not Applicable.
INT	EREST PROVISIONS	
15.	Interest Basis:	ZAR-JIBAR + 0.75 per cent. Floating Rate.
16.	Interest Commencement Date:	November 8, 2022.
17.	Fixed Rate Note Conditions:	Not Applicable.
18.	Floating Rate Note Conditions:	Applicable.
	(i) Interest Period(s):	From and including the relevant Interest Payment Date and ending on, but excluding, the following Interest Payment Date, with the first Interest Period commencing on (and including) the Interest Commencement Date and ending on (but excluding) the next Interest Payment Date (each Interest

			Payment Date as adjusted in accordance with the applicable Business Day Convention).
			February 8, 2023, May 8, 2023, August 8, 2023 and November 8, 2023, with the first Interest Payment Date being February 8, 2023, in each case, subject to the adjustment in accordance with the Business Day Convention (as specified in this Pricing Supplement).
	(iii)	Business Day Convention:	Modified Following Business Day Convention.
	(iv)	Manner in which the Rate(s) of Interest is/are to be determined:	ISDA Determination.
	(v)	Screen Rate Determination:	Not Applicable.
	(vi)	ISDA Determination:	Applicable.
		– Floating Rate Option:	ZAR-JIBAR-SAFEX.
		– Designated Maturity:	Three months.
		– Reset Date:	The first day of the Interest Period.
		– ISDA Rate 0% Floor:	Not Applicable.
	(vii) Margin(s):		+ 0.75 per cent. per annum.
	(viii)	Minimum Rate of Interest:	Zero per cent. per annum.
	(ix) Maximum Rate of Interest:		Not Applicable.
	(x)	Day Count Fraction:	Actual/365 (Fixed).
	(xi)	Specified Period:	Not Applicable.
	(xii)	Fall back provisions, rounding provisions, denominator and any other terms relating to the method of calculating interest on Floating Rate Notes, if different from those set out in the General Note Conditions:	As specified in the General Note Conditions.
	(xiii)	Cut-off Date:	Applicable – 30th Business Day.
19.	Zero	Coupon Note Conditions:	Not Applicable.
20.		est linked to one or more rlying Assets Conditions:	Not Applicable.
RED	EMPT	TON PROVISIONS	
21.	1. Redemption/Payment Basis:		Redemption at par.

- 22. Redemption at the option of the Not Applicable. Issuer:
- 23. **Redemption at the option of** Not Applicable. **Noteholders:**
- 24. Automatic Early Redemption: Not Applicable.
- 25. Final Redemption Amount of each Note: Unless the Notes are redeemed early or are adjusted, in each case in accordance with the Conditions, the Notes will be redeemed on the Maturity Date by payment of the Final Redemption Amount, which shall be equal to ZAR 1,000,000 per Calculation Amount (together with, for the avoidance of doubt, the Interest Amount payable on the Maturity Date).

26. **Physical Settlement:** Not Applicable.

- 27. Non-scheduled Early Repayment Fair Market Value. Amount:
 - Adjusted for Issuer Expenses and Applicable. Costs

SHARE LINKED NOTE / INDEX LINKED NOTE / COMMODITY LINKED NOTE / FX LINKED NOTE / INFLATION LINKED NOTE / TOTAL/EXCESS RETURN CREDIT INDEX LINKED NOTE / CREDIT LINKED NOTE / OTHER VARIABLE LINKED NOTE

28.	Type of Notes:	The Notes are Floating Rate Notes – the Floating Rate Note Conditions are applicable.
29.	Share Linked Notes:	Not Applicable.
30.	Index Linked Notes:	Not Applicable.
31.	Commodity Linked Notes (Single Commodity or Commodity Basket):	Not Applicable.
32.	CommodityLinkedNotes(SingleCommodityIndexorSingleCommodityStrategy):	Not Applicable.
33.	FX Linked Notes:	Not Applicable.
34.	Inflation Linked Notes:	Not Applicable.
35.	Total/Excess Return Credit Index Linked Notes:	Not Applicable.
36.	Credit Linked Notes:	Not Applicable.
37.	EIS Notes:	Not Applicable.
38.	Other Variable Linked Notes:	Not Applicable.

GENERAL PROVISIONS APPLICABLE TO THE NOTES

39.	FX Disru	Disruj iption E		FX Disruption Event is applicable – General Note Condition 15 and FX Linked Condition 3 (<i>Definitions</i>) shall apply.
				The definition of "FX Disruption Event" in FX Linked Condition 3 (<i>Definitions</i>) shall be deleted in its entirety and replaced with the following:
				"An " FX Disruption Event " shall be deemed to have occurred if, as determined in the sole discretion of the Calculation Agent, it is not possible or practicable for the Issuer to pay any amount in ZAR payable in respect of the Notes on any relevant payment date due to illiquidity, inconvertibility or non-transferability of ZAR or due to the Issuer's inability to obtain a sufficient amount of ZAR in a timely manner due to the exchange controls and restrictions applicable to ZAR or any other event beyond the control of the Issuer."
	(i)	Refere	ence Currency:	USD.
	(ii)	Refere	ence Country:	The United States of America, the United Kingdom and the Republic of South Africa.
	(iii)	CNY	Financial Centre(s):	Not Applicable.
	(iv)	USD/0	CNY FX Rate:	Not Applicable.
	(v)	USD/A Rate:	Affected Currency FX	Applicable – as specified in FX Linked Condition 3 (<i>Definitions</i>).
		(a)	Affected Currency:	Settlement Currency.
		(b)	USD/Affected Currency FX Rate Fixing Price Sponsor Determination:	Not Applicable.
		(c)	FX Disruption Event Cut- off Date:	As specified in General Note Condition 2(a).
		(d)	Fixing Price Sponsor:	Not Applicable.
		(e)	Valuation Time:	Not Applicable.
	(vi)	Trade	Date:	Not Applicable.
40.	0. Additional Business Centre(s):		Business Centre(s):	Not Applicable.
				" Business Day " means a day (other than a Saturday or Sunday) (i) on which commercial banks and foreign exchange markets settle payments generally in Johannesburg, and (ii) which is also a TARGET Settlement Day.
41.	Form	n of Not	es:	Registered Notes.
42.			Financial Centre(s) or al provisions relating to	Not Applicable.

	Payment Business Days:		" Payment Business Day " means a day (other than a Saturday or Sunday) (i) on which commercial banks and foreign exchange markets settle payments generally in Johannesburg, and (ii) which is also a TARGET Settlement Day.
43.	Principal Financial Centre:		As specified in General Note Condition 2(a).
44.	amou	ils relating to Instalment Notes: unt of each instalment date on h each payment is to be made:	Not Applicable.
45.	Mini	mum Trading Number:	One Note (corresponding to a nominal amount of ZAR 1,000,000).
46.	Pern	nitted Trading Multiple:	One Note (corresponding to a nominal amount of ZAR 1,000,000).
47.	Date obtai	approval for issuance of Notes ined:	Not Applicable.
48.	Othe	er terms or special conditions:	Not Applicable.
49.	Gove	erning Law:	English law.
50.	Calculation Agent:		Goldman Sachs International.
DIS	DISTRIBUTION		
51.	Method of distribution:		Non-syndicated.
	(i) If syndicated, names and addresses of Managers and underwriting commitments:		Not Applicable.
	(ii)	Date of Subscription Agreement:	Not Applicable.
	(iii)	Stabilising Manager(s) (if any):	Not Applicable.
	(iv)	If non-syndicated, name of Dealer:	Goldman Sachs International (" GSI ") (including its licensed branches) shall act as Dealer and purchase all Securities from the Issuer, provided that Goldman Sachs Bank Europe SE may act as Dealer in respect of some or all of the Securities acquired by it from GSI.
52.	Additional selling restrictions:		Not Applicable.
53.	(i)	Prohibition of Sales to EEA Retail Investors:	Applicable.
	(ii)	Prohibition of Sales to UK Retail Investors:	Applicable.
54.		ibition of Offer to Private Clients vitzerland:	Applicable.
55.	GSG (Swiss) Guaranty:		Not Applicable.

- 56. Supplementary Provisions for Belgian Not Applicable. Securities:
- 57. Swiss Public Offer requiring a No. Prospectus:
- 58. Admission to trading of Securities in No. Switzerland:

DISCLOSURE REQUIREMENTS IN TERMS OF PARAGRAPHS 3(5) OF THE COMMERCIAL PAPER REGULATIONS IN RELATION TO SOUTH AFRICAN SECURITIES ISSUED BY GSI

Paragraph 3(5)(a)

The ultimate borrower is the Issuer.

Paragraph 3(5)(b)

The Issuer is a going concern and can in all circumstances be reasonably expected to meet its commitments, thereby reflecting the adequacy of the liquidity and solvency of the Issuer.

Paragraph 3(5)(c)

The auditor of the Issuer is PricewaterhouseCoopers LLP.

Paragraph 3(5)(d)

As at the Issue Date:

- (i) the Issuer has issued no Commercial Paper (as defined in the Commercial Paper Regulations) (excluding this issuance of Notes) in South Africa; and
- (ii) to the best of the Issuer's knowledge and belief, the Issuer estimates that it will issue Commercial Paper up to an amount of ZAR 400,000,000 during the current financial year ending 31 December 2022.

Paragraph 3(5)(e)

All information that may reasonably be necessary to enable the investor to ascertain the nature of the financial and commercial risk of its investment is contained in the JSE Placement Document, Offering Circular and this Pricing Supplement.

Paragraph 3(5)(f)

There has been no material adverse change in the Issuer's financial position since the date of its last audited financial statements.

Paragraph 3(5)(g)

This Series of Notes will be listed on the Interest Rate Market of the JSE.

Paragraph 3(5)(h)

The proceeds of the issue of this Series of Notes will be applied by the Issuer for its general corporate purposes.

Paragraph 3(5)(i)

The obligations of the Issuer in respect of this Series of Notes are unsecured.

Paragraph 3(5)(j)

PricewaterhouseCoopers LLP has confirmed that, based on their procedures performed, nothing has come to their attention which indicates that this issue of the Note will not comply in all material respects with the relevant provisions of the Commercial Paper Regulations.

PURPOSE OF PRICING SUPPLEMENT

This Pricing Supplement comprises the Pricing Supplement required for issue, and admission to trading on the Interest Rate Market of the JSE Limited, of the Note described herein pursuant to the Series P Programme for the issuance of Warrants, Notes and Certificates of Goldman Sachs International, Goldman, Sachs & Co. Wertpapier GmbH and Goldman Sachs Finance Corp International Ltd.

RESPONSIBILITY

The Issuer accepts responsibility for the information contained in this Pricing Supplement. To the best of the knowledge and belief of the Issuer (which has taken all reasonable care to ensure that such is the case) the information contained in the Offering Circular, as completed and/or amended by this Pricing Supplement in relation to the Series of Notes referred to above, is true and accurate in all material respects and, in the context of the issue of this Series, there are no other material facts the omission of which would make any statement in such information misleading.

The Issuer certifies that to the best of its knowledge and belief there are no facts that have been omitted from the JSE Placement Document or this Pricing Supplement which would make any statement false or misleading, that all reasonable enquiries to ascertain such facts have been made and that the JSE Placement Document together with this Pricing Supplement, contain all information required by law and the Debt Listings Requirements of the JSE. The Issuer accepts full responsibility for the accuracy of the information contained in the JSE Placement Document, this Pricing Supplement and all documents incorporated by reference and any amendments or supplements to the aforementioned documents (see the section of the JSE Placement Document headed "Documents Incorporated by Reference").

The JSE takes no responsibility for the contents of the JSE Placement Document, the annual financial statements, annual report, this Pricing Supplement and any amendments or supplements to the aforementioned documents. The JSE makes no representation as to the accuracy or completeness of the JSE Placement Document and the annual financial statements, the annual report or this Pricing Supplement of the Issuer and any amendments or supplements to the aforementioned documents and expressly disclaims any liability for any loss arising from or in reliance upon the whole or any part of the aforementioned documents. The JSE's approval of the registration of the JSE Placement Document and listing of the debt securities is not to be taken in any way as an indication of the merits of the Issuer or of the debt securities and, to the extent permitted by law, the JSE will not be liable for any claim whatsoever.

MATERIAL CHANGE

As at the date of this Pricing Supplement, and after due and careful enquiry, there has been no material change in the financial or trading position of the Issuer and its Subsidiaries since the date of the Issuer's latest audited financial statements. As at the date of this Pricing Supplement, there has been no involvement by PricewaterhouseCoopers LLP in making the aforementioned statement.

Where the Issuer make statements that "there has been no material adverse change" and "no significant change in the financial position or financial performance" of the Issuer, references in these statements to the "financial or trading position" of the Issuer is specifically to its respective ability to meet its full payment obligations under the South African Securities in a timely manner. Material information about the financial condition of the Issuer is included in each of the Issuer's annual and interim reports, which are incorporated by reference into this Pricing Supplement.

REPRESENTATION

Each Holder will be deemed to have agreed that it will not offer, sell or deliver the Notes in any jurisdiction except under circumstances that will result in compliance with the applicable laws thereof, and that such Holder will take at its own expense whatever action is required to permit its purchase and resale of the Notes.

Signed on behalf of Goldman Sachs International:

By: R. a. Nunnelly

Lisa Donnelly

Duly authorised

By: N Pathally

Nirubhan Pathmanabhan

Duly authorised

OTHER INFORMATION

LISTING AND ADMISSION TO TRADING

Application will be made by the Issuer (or on its behalf) for the Securities to be listed on the JSE Limited through the CSD with effect from, at the earliest, the Issue Date. No assurances can be given that such application for listing and admission to trading will be granted (or, if granted, will be granted by the Issue Date).

The Issuer has no duty to maintain the listing (if any) of the Securities on the relevant stock exchange(s) over their entire lifetime. Securities may be suspended from trading and/or de-listed at any time in accordance with applicable rules and regulations of the relevant stock exchange(s).

REASONS FOR THE ISSUE AND ESTIMATED NET AMOUNT OF PROCEEDS

(i)	Reasons for the issue:	Not Applicable
(ii)	Estimated net amount of proceeds:	Not Applicable
OPE	RATIONAL INFORMATION	
S.A./	clearing system(s) other than Euroclear Bank N.V. and Clearstream Banking S.A. and the ant identification number(s):	Strate Proprietary Limited (the CSD)
Deliv	ery:	Delivery against payment
Name any):	es and addresses of additional Paying Agent(s) (if	Not Applicable
Opera	ational contact(s) for Fiscal Agent:	eq-sd-operations@gs.com.
	ded to be held in a manner which would allow system eligibility:	No.

Whilst the designation is specified as "no" at the date of this Pricing Supplement, should the Eurosystem eligibility criteria be amended in the future such that the Notes are capable of meeting them the Notes may then be deposited with one of the ICSDs as common safekeeper. Note that this does not necessarily mean that the Notes will then be recognised as eligible collateral for Eurosystem monetary policy and intra day credit operations by the Eurosystem at any time during their life. Such recognition will depend upon the ECB being satisfied that Eurosystem eligibility criteria have been met.

ADDITIONAL INFORMATION FOR LISTING THE NOTES ON THE INTEREST RATE MARKET OF THE JSE LIMITED

1.	Last Day to Register	By 17h00 on 28 January 2023, 27 April 2023, 28 July 2023 and 28 October 2023 or, if such day is not a Business Day, the Business Day before each Books Closed Period.
2.	Books Closed Period	The Register will be closed from 29 January 2023 to 7 February 2023, 28 April 2023 to 7 May 2023, 29 July 2023 to 7 August 2023 and 29 October 2023 to 7 November 2023 (all dates inclusive), or if any early redemption occurs, 10 Days prior to actual redemption date.
3.	South African Paying Agent	The Standard Bank of South Africa, acting through its Corporate and Investment Banking division
4.	South African Transfer Agent	The Standard Bank of South Africa, acting through its Corporate and Investment Banking division
5.	South African Issuer Agent	The Standard Bank of South Africa, acting through its Corporate and Investment Banking division
6.	Applicable Credit Rating of Issuer	Standard & Poor's: "A+" as of 2 March 2022
		Moody's: "A1" as of 2 March 2022
		Fitch: "A+" as of 2 March 2022
7.	Date of the JSE approval of the JSE Placement Document	13 October 2022
8.	Exchange Control Approval	2 September 2022

ANNEX

INFORMATION RELATING TO THE UNDERLYING ASSET

Information on the 3 Month ZAR JIBAR can be obtained from Reuters screen SAFEY under the caption "YIELD" ("ZAR-JIBAR-SAFEY") (or any successor or replacement page) (and the information appearing on such screen page does not form part of this Pricing Supplement).

Supplement(s) to the Offering Circular

The Offering Circular dated November 19, 2021 has been supplemented by the following Supplement(s):

Supplement(s)	Date
Supplement No. 1	February 1, 2022
Supplement No. 2	February 23, 2022
Supplement No. 3	April 8, 2022
Supplement No. 4	April 29, 2022
Supplement No. 5	May 30, 2022
Supplement No. 6	July 27, 2022
Supplement No. 7	August 25, 2022
Supplement No. 8	October 27, 2022