

---

# Business cycle signals

Results of the SNB company talks

## Fourth quarter of 2022

Report submitted to the Governing Board of the Swiss National Bank for its quarterly monetary policy assessment.

The appraisals presented here are based on discussions between the SNB's delegates for regional economic relations and company managers throughout Switzerland. In its evaluation, the SNB aggregates and interprets the information received. A total of 220 company talks were conducted between 11 October and 29 November.

### Regions

Central Switzerland  
Eastern Switzerland  
Fribourg/Vaud/Valais  
Geneva/Jura/Neuchâtel  
Italian-speaking Switzerland  
Mittelland  
Northwestern Switzerland  
Zurich

### Delegates

Astrid Frey  
Urs Schönholzer  
Aline Chabloz  
Jean-Marc Falter  
Fabio Bossi  
Roland Scheurer  
Daniel Hanimann  
Fabian Schnell and Marco Huwiler

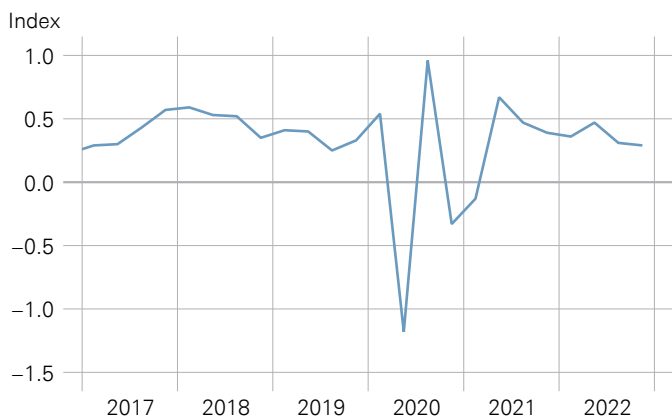
## Key points

---

- Turnover growth weakened slightly in the fourth quarter but remained positive in broad sections of the economy. Various export-oriented companies have been feeling the cooling in global economic activity. Developments in domestic demand for consumer goods have been subdued.
- The majority of companies are anticipating increases in turnover in the coming quarters. However, the prospects are clouded by many uncertainties. While concerns around the onset of energy shortages have diminished, uncertainty about the global economic situation has increased.
- Staff shortages have eased somewhat. However, recruitment difficulties remain a big challenge for many companies. The tight labour market and the increased rate of inflation are leading to higher wage agreements.
- There are signs that the situation regarding the procurement of intermediate goods is easing. Supply bottlenecks are increasingly confined to specific electronic components.
- Companies expect growth in purchase prices, which has been strong to date, to weaken slightly. At the same time, companies intend to continue raising their sales prices significantly, primarily to cushion the pressure that past cost developments are putting on margins.

Chart 1

**TURNOVER COMPARED TO PREVIOUS QUARTER**



Developments in real turnover compared to the previous quarter. Positive (negative) index values signal an increase (decrease).

Source(s): SNB

Chart 2

**CAPACITY UTILISATION**

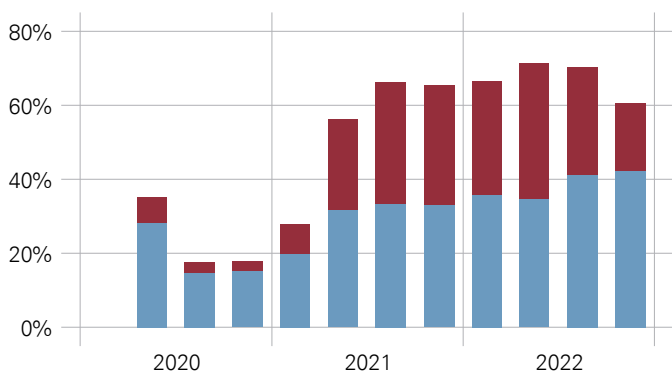


Current utilisation of technical capacity / business infrastructure compared to a normal level. A positive (negative) index value signals utilisation is higher (lower) than normal.

Source(s): SNB

Chart 3

**PROCUREMENT SITUATION**



■ Slightly more difficult    ■ Considerably more difficult

Share of companies facing a more difficult procurement situation as compared to a normal situation.

Source(s): SNB

**CURRENT SITUATION**

**Turnover growth slows slightly**

Real turnover growth, in other words turnover growth adjusted for price changes, weakened slightly in the fourth quarter, but remained positive in broad sections of the economy (cf. chart 1). The robust development of the domestic economy is a supporting factor. Demand for IT and financial services, for example, remains lively. The construction industry and associated manufacturing and services companies are also profiting from solid growth in turnover. By contrast, momentum in the trade industry has been modest and tending to decline, which suggests that demand for consumer goods is subdued.

Turnover growth in manufacturing is underpinned by the improved procurement situation. So far, high energy prices have prompted only very few companies to directly reduce their production. Because of longer-term energy contracts, however, some still have an increase in energy prices before them and are concerned about the anticipated higher costs. At the same time, some export-oriented companies are feeling the cooling in global economic activity and the slowing, particularly in the European economy, brought on by the energy crisis. A few companies note something of a weakening in strong demand from the US as well. The signals from Asia, especially China, remain mixed.

**Production capacity and infrastructure utilisation close to normal**

Utilisation of companies' technical production capacity and infrastructure has improved slightly overall, and is now running at close to normal levels (cf. chart 2). However, the situation varies from sector to sector. In manufacturing, capacity utilisation has decreased and is now somewhat lower than usual. A decline in utilisation is also reported in construction, although levels remain satisfactory in most cases. The services sector, on the other hand, has reduced its overcapacity, and the majority of companies are now seeing normal levels of infrastructure utilisation.

**Tangible easing on the procurement front**

There are signs of tangible easing on the procurement front. While more than half of companies say they are still having to contend with a difficult procurement situation (cf. chart 3), the proportion suffering seriously under supply problems has declined significantly. For example, there are no longer any pronounced delays reported in the delivery of raw materials such as metals and timber. Difficulties in the sourcing of electronic components are also less widespread, although delivery times for some products are still very long.

### Slight easing in the recruitment situation

The recruitment situation remains a big challenge for many companies (cf. chart 4). In some services industries, however, there are signs of a slight easing in staff shortages. Recruiting staff in the hospitality industry, for example, seems to be somewhat less difficult again – owing among other things to adjustments in wages and, in some cases, in working conditions. Finding specialists in technical and skilled manual trades, by contrast, is still only possible with great effort and in some cases high starting wages. This means that manufacturing in particular, and construction as well, are still especially hard hit by recruitment difficulties.

### Profit margins improving

The margin situation is improving at the majority of companies (cf. chart 5). This is after many in the previous quarter suffered the effects of cost increases that could not be fully passed through to sales prices. The improvement has been most evident in services and construction. Companies in these sectors are attempting to adjust sales prices in line with the increases in costs, and in most cases customers accept these price increases. Owing to pressure on margins in the last few quarters, some companies are also taking steps to increase efficiency at an accelerated pace.

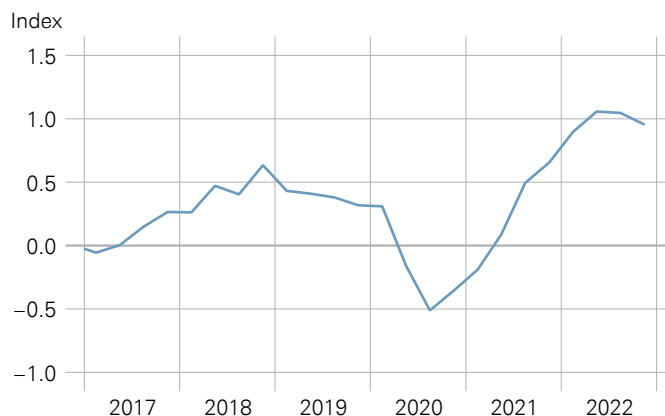
Margin developments in manufacturing, by contrast, have been less favourable. Particularly in the export business, companies are sometimes unable to raise prices sufficiently without losing order volume. Some companies cite the exchange rate situation as an additional challenge in this connection. In some cases long-standing customer relationships, agreements related to long-term projects and framework agreements are limiting companies' flexibility when it comes to setting prices. However, the situation also varies within the manufacturing industry. For example, margins on goods in industries such as medical technology and luxury watches that enjoy robust and less cyclical demand are less under pressure.

### Liquidity situation stable in the vast majority of cases

The liquidity situation remains unproblematic for the vast majority of companies. However, the proportion of companies that see their liquidity situation as tight has increased slightly. The reasons given for liquidity bottlenecks are the capital tied up in increased inventory, higher purchase prices and more expensive financing conditions.

Chart 4

### RECRUITMENT DIFFICULTIES



Difficulties in recruiting new staff. Positive (negative) index values signal a worsening (easing).

Source(s): SNB

Chart 5

### CHARACTERISATION OF MARGINS



Characterisation of the current margin situation. Negative (positive) index values signal an uncomfortable (comfortable) margin situation.

Source(s): SNB

## DEVELOPMENTS IN INDIVIDUAL INDUSTRIES

### **Momentum in the trade industry weak**

Business in the trade industry is sluggish. While the turnover of goods in the wholesale trade is somewhat higher than the previous quarter, partly because specialised wholesalers are benefiting from the improved supply situation, volumes in the retail sector are declining slightly. Given the increases in prices, consumers are paying more attention to their spending and are choosing lower-cost alternatives more often. Added to this, continuing supply problems at automakers continue to seriously affect sales of new vehicles. Increasingly, general uncertainty is also making customers reluctant to invest in a new vehicle.

### **Conditions for food services encouraging, but hotel industry weaker**

Food services companies have seen further increases in turnover. They profited from unusually high temperatures in October and November, when restaurants were heavily frequented. The hotel industry, by contrast, has recorded lower turnover in many cases. After enjoying pent-up demand, for example for conferences and events, in the summer months following the lifting of coronavirus measures, hotels are now seeing another decline in demand. They also still report a significant lack of guests from abroad, especially from certain parts of Asia. In addition to coronavirus measures in guests' countries of origin, a lack of transport capacity and the resulting high price of air travel are slowing business.

### **Financial and ICT industries see robust development**

The financial industry is enjoying robust growth. Despite higher interest rates, solid demand for residential property is underpinning the mortgage market. Some asset managers also report inflows of client money. The fact that many clients are acting cautiously in the current environment, however, is curbing revenue growth. Turnover in the ICT industry also continues to increase. Thanks to digital transformation and the mounting need for cybersecurity, this industry still has high growth potential. The procurement situation for IT equipment has improved.

### **Development of business in manufacturing varies**

Business in most manufacturing industries is developing positively. In many cases the improved procurement situation is leading to higher turnover. The order situation is particularly pleasing in watchmaking, an industry profiting from great demand for luxury goods. But other manufacturers of precision instruments and electrical equipment are also reporting robust business activity. This is being underpinned by growing demand for medical technology worldwide. Suppliers to the energy industry are also benefiting again from increasing demand. Not only is there very high demand for photovoltaic systems, but investment in larger power generation assets is also increasing again.

At the same time, some companies are feeling the signs of the cooling in global economic activity. This is an especially big challenge for manufacturing companies whose products are subject to strong global competition. The high costs of energy in Europe compared with the US or Asia, the shortage of staff in Switzerland and the strong franc are putting pressure on margins. This is particularly true for companies in the energy-intensive businesses of processing plastics, metals or ceramics. Companies reliant on goods that have become much more expensive, such as paper or glass, are having to fight for market share in the global arena.

### **Good order situation but uncertain outlook for construction**

Construction is profiting from a good order situation. Given that demand for residential space and energy-efficient renovations remain stable, building construction companies in particular report good levels of utilisation. Construction activity has been further underpinned by the warm, stable weather. Margins in construction have improved somewhat. Many companies have been able to pass on the higher price of materials to customers, for example by means of inflation clauses. Moreover, the good capacity utilisation is accompanied by greater efficiency. Construction companies would still like to take on additional personnel to be able to deliver more contracts. The corresponding labour market, however, has dried up.

## OUTLOOK

### Cautious optimism

For the first half of 2023, companies expect turnover to increase more or less in line with the long-term average (cf. chart 6). Despite concerns about global economic developments, confidence has grown slightly. One reason for this is that the risk of electricity shortages over the winter has declined recently. At the same time, there are signs of robust development in domestic demand, which the majority of companies expect to continue in the next two quarters. One exception is construction, which anticipates only modest growth over the next six months. Companies in this sector fear that the higher interest rates in conjunction with the higher costs of construction could curb investment activity.

In line with the overall positive outlook, companies expect staff numbers to increase further, albeit at a slightly slower pace (cf. chart 7). Many companies consider their current staffing levels to be too low. Added to this, the anticipated growth in turnover will tend to increase the need for staff. Due to the tight situation on the labour market and the elevated level of inflation, companies are planning to raise wages next year by an average of 2.7% (cf. chart 8).

Companies are planning to invest slightly more overall in the coming year than in the past twelve months. A difficult margin situation, higher prices for capital goods and the uncertain business situation are curbing some companies' appetite for investment. At the same time, however, capacity utilisation is good overall, and this is increasing the need for investment. Companies are favouring investment in automation and a more efficient IT infrastructure as a means of countering shortages of staff. Some companies are stepping up measures to reduce their energy costs.

### Purchase and sales prices expected to increase

Given the slight easing in the procurement situation, companies are expecting purchase prices to increase further, albeit not as sharply as before. Expectations, however, are mixed. Companies anticipate sustained strong growth in prices of electronic products and IT services as well as of energy-intensive intermediate goods such as paper, glass wool and cement. On the other hand, declining prices on the commodity markets will curb any further increases in purchase prices in industries such as metalworking. In addition to this, logistics costs are expected to fall.

Chart 6

### EXPECTED TURNOVER

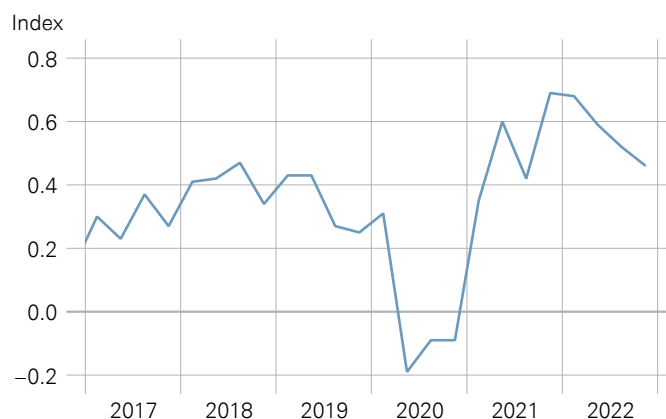


Expected developments in real turnover over the coming two quarters. Positive (negative) index values indicate turnover is expected to be higher (lower).

Source(s): SNB

Chart 7

### EXPECTED EMPLOYMENT



Expected developments in staff numbers over the coming two quarters. Positive (negative) index values indicate an expected increase (decrease).

Source(s): SNB

Chart 8

### WAGE INCREASES

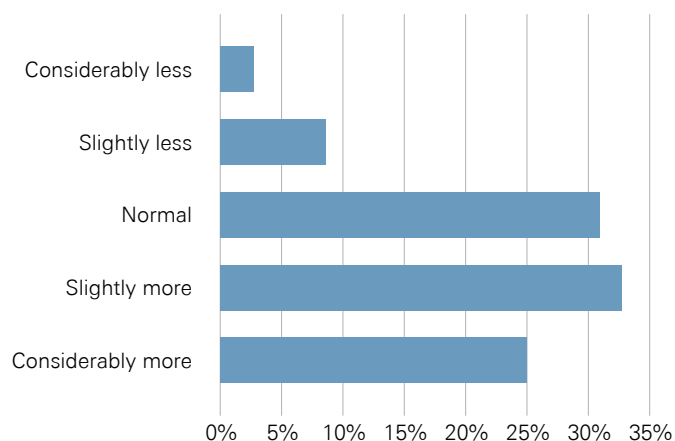


Expected average wage increase for the coming year (cross) and agreed annual wage increases (line).

Source(s): SNB

Chart 9

**UNCERTAINTY**



Uncertainty about development of business over the next two quarters.

Source(s): SNB

By contrast, there are signs that sales prices are increasing at a slightly accelerated pace. A large proportion of companies intend to pass the higher costs of intermediate goods and energy, as well as anticipated wage increases, through to sales prices as far as possible to stabilise their margins. Companies also justify the planned price increases with the fact that so far it has not been possible to fully pass on the higher costs. A few companies say that they intend to use the general increase in prices to improve their margins.

**Diverse challenges and a high degree of uncertainty**

The mildly favourable sales outlook is clouded by an array of challenges and imponderables. Many companies stress the extraordinary level of uncertainty regarding the future development of business. Roughly 25% of companies rate the level of uncertainty as considerably elevated. Around 30% of companies speak of a slightly elevated level of uncertainty (cf. chart 9).

While concerns about energy shortages have diminished, uncertainty about the global economic situation has increased. Companies are particularly concerned about high rates of inflation in their sales markets. The company representatives fear that this will curb demand for consumer goods and in conjunction with rising interest rates will contribute to a broad weakening in global demand.

Rising interest rates are also a concern for companies geared to the domestic market. Companies with a high proportion of debt are uncertain about their future financing. Above all, however, the construction industry and related companies such as component suppliers or planning and consulting firms are concerned about the impact of rising financing costs on construction activity and the real estate market in general. Companies in the financial industry share this concern, although various representatives say that immigration will remain a supporting factor.

Added to this are imponderables that have been occupying companies for a number of quarters already. For example, given the tight labour market, companies are uncertain as to whether they will be able to put their personnel plans into practice. Despite the recent improvement in the procurement situation, this is still also cited as a risk factor. Exchange rate developments are also giving grounds for concern. Even though high rates of inflation abroad help exporters mitigate the effects of the strong franc on their competitiveness, some export-oriented companies, and those exposed to strong competition from imports, take a critical view of the current exchange rate level. Finally, some company representatives are concerned that the coronavirus pandemic could continue to result in more frequent staff absences and in the continuation of international trade restrictions.



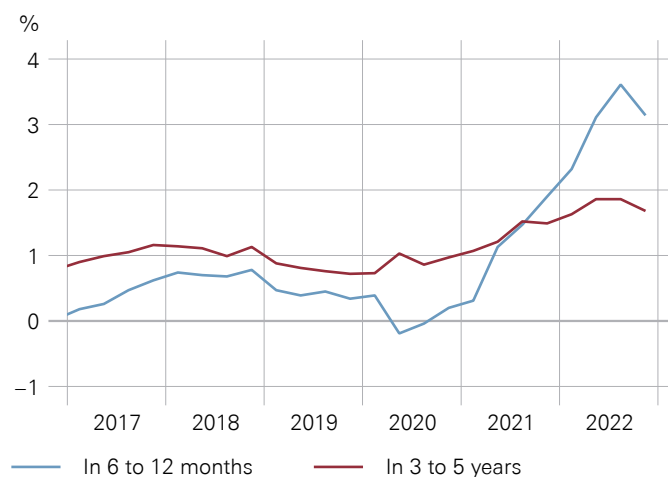
## INFLATION EXPECTATIONS

The delegates also ask company representatives about their short and long-term inflation expectations.

For the first time since the beginning of the pandemic, there has been a decline in short-term inflation expectations as measured by the consumer price index: The average for the next six to twelve months (cf. chart 10) is 3.1%, compared with 3.6% in the previous quarter. This significant decline is connected with the fall in energy and raw materials prices in the past few months and with the somewhat lower level of observed inflation. In the medium term, company representatives expect a significant levelling-off in inflation to within the range that the SNB equates with price stability. Their inflation expectations over a three to five-year horizon are 1.7%, a somewhat lower figure than the previous quarter. Company representatives emphasise the important role of the central banks in ensuring price stability in the medium term.

Chart 10

### EXPECTED INFLATION



Source(s): SNB

## About this report

### Approach

Each quarter, the SNB's delegates for regional economic relations hold talks with members of management at companies throughout Switzerland. The main results of these discussions are summarised in the 'Business cycle signals' report.

Over 200 companies are visited every quarter. The selection of companies reflects the industrial structure of the Swiss economy based on GDP and employment. Industries subject to stronger cyclical fluctuations are somewhat over-represented, while the public administration and agriculture are not taken into consideration. As a rule, the companies in the sample have at least 50 employees. Different companies are visited from one quarter to the next.

In the talks, the SNB's delegates capture primarily qualitative information. The discussions are nevertheless structured in such a way as to allow the delegates to grade part of the qualitative information received according to a numeric scale. This enables the results to be aggregated and represented graphically.

The five-tier scale ranges from 'substantially higher' or 'much too high' (+2), 'slightly higher' or 'somewhat high' (+1), 'the same' or 'normal' (0), 'slightly lower' or 'somewhat low' (-1), to 'substantially lower' or 'much too low' (-2).

### Interpreting the charts

The charts are to be regarded as a numeric summary of the qualitative information received. The index value shown represents the average of the findings from all companies visited. When interpreting the curves, relevance should be attached to their overall development, rather than to their numeric level or individual changes.

### Additional information

Further information on the 'Business cycle signals' report is available at [www.snb.ch](http://www.snb.ch), The SNB/SNB regional network.



---

## Acknowledgements

The SNB would like to thank the representatives from around 900 companies that have consented to take part in interviews with the delegates for regional economic relations during the course of 2022. In doing so, they have made a significant contribution to the evaluation of economic developments. The companies listed below have agreed that their names may be published:

---

<b>A</b>	Anybotics AG	Basilea Pharmaceutica AG	Borflex Rex SA
A. Reinhard Nutzfahrzeuge AG	API SA	Bättig Treuhand AG	Boss Info AG
A. Walker AG	Appenzeller Kantonalbank	Bauhaus Fachcentren AG	BP (Switzerland)
Aare Energie AG	Arab Bank	Baumann Koelliker Gruppe	brack.ch
ABB Schweiz AG	(Switzerland) Ltd	Baumeler Reisen AG	Brauch Transport AG
Abbott Products Operations AG	Arbenz RVT AG	BBT Software AG	Briner Winterthur
ABC Maritime AG	Archroma	BDO AG	Brühwiler Sägewerk AG
Adcubum AG	Argus Data Insights Schweiz AG	BE Netz AG	Bruker BioSpin Group
AdNovum Informatik AG	Ascenseurs Menétrey SA	Beck AG Grosshandel	Brun & Strebel Tief- und Gartenbau AG
AEK Bank 1826	Assos of Switzerland GmbH	Beer AG	Brunni-Bahnen
Genossenschaft	Astra Hôtel Vevey	Beeworx GmbH	Engelberg AG
Aepli Metallbau AG	Atar Roto Presse SA	Belimport SA	Brütsch Elektronik AG
Aerni AG	atokalpa	Belvédère Hotels Scuol	Bühler AG
Aéroport International de Genève	Atos AG	Benninger Guss AG	Bulgari Horlogerie SA
Aeschbach Chocolatier AG	ATP Hydraulik AG	Berest AG	Burckhardt + Partner AG
AFRY Svizzera SA	Atupri Gesundheitsversicherung	Bergbahnen Destination Gstaad AG	Burger Söhne AG
Agrano AG	Auto Marti AG	Bergbahnen Scuol AG	Buschini SA
Agrola AG	Auto Welt von Rotz AG	Bergeon SA	BÜWE Tiefbau AG
Agustoni Cesare Trucks SA	Autobritt Automobiles SA	Bering AG	
AHG Holding AG	Autogrill Schweiz AG	Bernexpo AG	<b>C</b>
aire h SA	Automobiles Senn SA	Bertschi AG	CA Indosuez (Switzerland) SA
AISA Automation Industrielle SA	AVJ Transports et Voyages	Bezirks-Sparkasse Dielsdorf	cabana AG
Albergo Losone	AWK Group AG	Bezzola Denoth AG	CABB AG
Albert Pougner SA	Axpo Holding AG	BG Ingénieurs Conseils SA	Café de Grancy Sàrl
Alcon Management SA	AZ Direct AG	Biberbau AG	Café du Centre, Genève
Aldo Lepori SA Impresa Costruzioni	<b>B</b>	BIC-BRED (Suisse) SA	Calida Group
Alfred Müller SA	B+S AG	Bien-Air Dental SA	Camillo Vismara SA
Aligro	Baccinex SA	Bigla Office AG	Candrian Catering AG
All in One Personal AG	Bachem AG	Bigler AG Fleischwaren	Cantin SA
Allega GmbH	Baechler Teinturiers SA	Bikes Center SA	Cantina Giubiasco SA
Allianz Suisse Immobilien AG	Balance Familie AG	Bio Partner Schweiz AG	Capita Customer Services AG
Alpex Pharma SA	Baloise Bank SoBa AG	bio-familia AG	Capital International Sàrl
Alternative Bank Schweiz AG	Banca Cler SA	Biofruits SA	Cargill International SA
Aluwag AG	Banca Popolare di Sondrio (Suisse) SA	Biondi Gastronomie	Carlo Bernasconi AG
AMAG Group AG	Banca Zarattini & Co SA	Biosynth AG	Carthesio SA
Amalthea (Elfab, Grossenbacher)	Bank EKI Genossenschaft	Birolini SA	Casram SA
AMC International AG	Bank Vontobel AG	BitHawk AG	Cavelti AG
Ander Group SA	Banque Bonhôte & Cie SA	BKW AG	CCHE Lausanne SA
Andermatt-Sedrun Sport AG	Banque Cantonale de Fribourg	Blaser Café AG	Cebi Micromotors Switzerland SA
Anliker AG	Banque Cantonale de Genève	Blu Restaurant & Lounge, Locarno	Centre Dentaire B1
Antalis AG	Banque Cantonale du Jura	Blumer Techno Fenster AG	Chemspeed Technologies AG
	Banque Cramer & Cie SA	BMW (Schweiz) AG	Chocolat Bernrain AG
	Banque Eric Sturdza SA	Bobst Group SA	Chocolat Stella SA
	BASF Schweiz AG	Bögli-Gravures SA	Chopard & Cie SA
		Bogn Engiadina Scuol SA	Cicorel SA
		Boost Holding AG	
		Borel & Barbey	

Ciposa	Dixa AG	Extramet AG	Gebr. Kuoni Transport AG
Cippà Trasporti SA	Docu Media Schweiz GmbH	EY Schweiz AG	Gebrüder Hodel AG
Clariant International AG			Gemdat AG
Cleanfix Reinigungssysteme AG	Domaco Dr. med. Aufdermaur AG	<b>F</b>	General Dynamics European Land Systems – Mowag GmbH
Clientis BS Bank Schaffhausen	Domaine de Châteauevieux	F. Hoffmann-La Roche AG	Genossenschaft Baseltor, Solothurn
Codan Argus AG	Domani Food SA	FAPS Engineering SA	Geosud SA
Cogestim SA	Donada SA	Fattorini Autotrasporti Sagl	Gerber-Vogt AG
Coiffina AG	Doppelleu Boxer AG	Fehlmann AG	Gericke AG
Colasit AG	Dorier SA	Fela Ticino SA	Gewinde - Ziegler AG
Comet AG	Dosim SA	Felco SA	GF Agie Charmilles SA
Cometel SA	Dreier AG	Felix Transport AG	GF Casting Solutions Novazzano
Compass Group (Schweiz) AG	Dreyfus Söhne & Cie AG, Banquiers	Ferrovie Luganesi SA (FLP)	Ghelma AG Baubetriebe
ComputerWorks AG	dsp Ingenieure + Planer AG	Festo Microtechnology AG	Gilli Garten AG
Confiserie Al Porto	duotec SA	filofibra sa	Girsberger AG
Confiserie Christian Boillat	Durrer Spezialmaschinen AG	Filtex AG	Glarner Kantonalbank
Confiserie Sprüngli AG	Dyconex AG	Finardi & Partners Sagl	Glatz AG
Confiseur Bachmann AG		Finnova AG	Glencore International AG
Contexa SA		Firmenich SA	Globaz SA
Convisa Holding AG	<b>E</b>	Fischer & Cie AG	Gmür AG
Coop	E. Kalt AG	Fleur de Pains SA	Goldbach Group AG
Coople Holding AG	EA Swiss Sàrl	FlowBank SA	Goldener Mode AG
Coperion K-Tron (Switzerland) LLC	Eberhard Unternehmungen	Flughafen Zürich AG	Grand Hôtel Zermatterhof, Zermatt
Cornu & Cie SA	Eberli AG	FNAC (Suisse) SA	Grand Resort Bad Ragaz AG
Corvaglia Holding AG	EBL	Fontana Print SA	Grau Electricité SA
Cotecna Inspection SA	ecco-jäger Früchte und Gemüse AG	Forster Gruppe AG	Grill & More Lausanne SA
Credit Suisse AG	eco2net SA	Fortimo Group AG	Groupe Ardentis
Cremo SA	Edifea SA	Fortuna Rechtsschutz-Versicherungsgesellschaft AG	Groupe Buchard Voyages
Cronoparty & Services Sagl	Edwards Lifesciences SA	Four Seasons Hôtel des Bergues, Genève	Groupe Colas Suisse
Crowne Plaza Geneva	Egli Gartenbau AG Sursee	Fr. Sauter AG	Groupe Friderici
CSC Impresa di costruzione SA	Eglin Group	Franke Group	Groupe Grisoni
CTA AG	EgoKiefer AG	Franscella SA	Groupe Integraal
CTC Analytics AG	EHC Biel Holding AG	Frédérique Constant SA (Schweiz) AG	Groupe JPF
CWA Constructions SA	Elcotherm SA	Fresenius Medical Care (Schweiz) AG	Groupe Leuba SA
CWS-boco Suisse SA	Elektroplan Buchs & Grosse AG	Frewitt fabrique de machines SA	Groupe MOB SA
<b>D</b>	Emch Aufzüge AG	Frey + Cie Tech Invest 22 Holding AG	Groupe Orllati
Daniel Fournier SA Agencement	Emch+Berger AG Bern	Fritz Studer AG	Groupe SOS
Darest Informatic SA	Emil Egger AG	Froneri AG	Gruner Stucky SA
Datamars SA	Emil Gisler Holding AG	Frutiger AG	Gruppo Corriere del Ticino
Datasport AG	emmental versicherung	Furrer + Frey AG	Gruppo Multi SA
Dätwyler Holding AG	Endress + Hauser AG		Gruppo Sicurezza SA
Debiopharm Research & Manufacturing SA	Enea GmbH	<b>G</b>	GS Swiss PCB AG
Delcò Mobili SA	Ennio Ferrari Impresa Generale SA	G. Bianchi AG	Gübelin Gruppe
Dell Technologies	ERI Bancaire SA	G. Bopp & Co AG	GVB Privatversicherungen AG
Deloitte AG	Erne Gruppe	Gabs AG	GVS Agrar AG
Demo Scope AG	Ernest Gabella SA	Galvano Wullimann AG	GWF MessSysteme AG
Denogent SA	Ernst Sutter AG	Galvolux SA	
Diametal AG	Esmo – European Society for Medical Oncology	Gambrinus Gastronomie AG	<b>H</b>
Dietsche Montage-Profis AG	Estrella AG	Ganz & Co AG	Hans Gassler AG
Dillena SA	Eugen Seitz AG	Garage Auto Kunz AG	Haupt Verlag AG
Dipl. Ing. Fust AG	Evatec AG	Garage Galliker Gruppe	Häusermann + Partner AG
	Evéquo SA	Garbani AG Bern	Hauswartprofis AG
	Exten SA	Gastrag AG	Heimbach Switzerland AG
		GE	Heiniger AG

Helen of Troy	Imbach + Cie AG	Kistag Dekopack AG	Luzerner Kantonalbank AG
Hemair Luftkanal- systeme GmbH	Imedco AG	Knecht Brugg Holding AG	Lyreco Switzerland AG
Henry Sports SA	Imerys Graphite & Carbon Switzerland SA	Koch Group AG	<b>M</b>
Herzog Bau und Holzbau AG	Implenia Schweiz AG	Komax Holding AG	M3 Real Estate
Herzog Küchen AG	Infoniqa Schweiz AG	Kongress und Kursaal Bern AG	Maagtechnik AG
HG Commerciale	Infra-Com Swiss AG	Kost + Partner Ingenieure und Planer	Mad Productions SA - Square Danses SA
Highlight Communications	Inova Solutions AG	KPMG SA	Madec AG
Hilti (Schweiz) AG	Insel Gruppe Management AG	Krafft Gruppe	Maerki Baumann & Co AG
Hirslanden Lausanne	Integra Biosciences AG	Kraftwerke Hinterrhein AG	Magtrol SA
Hitachi Energy Switzerland AG	International Handball Federation (IHF)	Krattiger Holzbau AG	Makies AG
HLS Hotels & Spa AG	Interroll Holding AG	Krebser AG	MAN Energy Solutions Schweiz AG
Hodel & Partner AG	Intersport Schweiz AG	Kromer AG	Manor
Holdigaz SA	Intuitive	Kuhn Rikon AG	Manpower Group
Honegger AG	Inventx AG	Kühne + Nagel Inter- national AG	Manufacture de boîtes de montres MRP SA
Hôpital de la Tour SA	Investas AG	Küng Platten AG	Manufacture Roger Dubuis SA
Horvath & Partner AG	Ismeca Europe Semicon- ductor SA (groupe Cohu)	Kunststoff Schwanden AG	Mario Ravasi SA
Hospitality & Gastro Services, Muralto	Itecor Suisse SA	Kuoni Viaggi	Marti AG Basel
hostettler group	IVF Hartmann AG	kybun Joya	Mathys AG Bettlach
Hostpoint AG	IXM SA	<b>L</b>	Matisa Matériel Industriel SA
Hôtel Beau-Rivage SA, Genève	<b>J</b>	Labcorp Central	Maulini SA
Hotel Belvedere Locarno	J3C Holding SA	Laboratory Services Sàrl	Maurice Lacroix SA
Hotel Continental-Park AG, Luzern	Jacquet SA	Laboratoires Biologiques Arval SA	mawiGroup SA
Hotel de la Paix, Lugano	Jakob AG	Läckerli Huus AG	Max Bersinger AG
Hotel de la Paix, Luzern	Jakob AG, Jakob-Markt	Lambertini & Partners SA	Max Felchlin AG
Hotel Eiger Mürren AG	Jakob Müller AG	Landis+Gyr AG	Max Pfister Baubüro AG
Hotel Hof Weissbad	Jauslin Stebler AG	Landquart Fashion Outlet	Max Zeller Söhne AG
Hôtel La Réserve, Genève	JeanShop Abbigliamento	Lanz-Anliker Holding AG	maxon motor ag
Hotel Lido Seegarten, Lugano	JL Services SA	Laubscher Präzision AG	McDonald's Restaurants Sven Matthisson
Hotel Schweizerhof Grindelwald AG	Jörg Lienert AG	Lauener & Cie SA	MCL Medizinische Laboratorien AG
Hotel Seedamm AG, Pfäffikon	Jörimann Gruppe	Lausanne Palace	Medacta International SA
Hotel Waldhaus, Sils- Maria	Josef Meyer Stahl & Metall AG	L'Autopostale del Mendrisiotto	Medgate AG
Hotel Walther, Pontresina	Joseph Baume SA	Laydevant SA	Meggitt SA
Hotelplan Suisse MTCH AG	Joux SA	Léguriviera Groupe	Meister & Cie AG
HR Campus AG	JT International AG Dagmersellen	Lehmann Riverside	Menu System AG
HRS Real Estate AG	Jungbunzlauer	Leitz GmbH	Mercuri Urval AG
HSBC Private Bank (Suisse) SA	Jura Materials	Lenovo (Schweiz) GmbH	Mercuria Energy Trading SA
Hupac Intermodal SA	<b>K</b>	Leonteq	Merkur Druck Gruppe AG
Hydro Exploitation SA	K. Dysli AG	Les Bains de Lavey SA	Merz + Benteli AG
<b>I</b>	Kaltband AG	Les Toises	Merz Anteis
IBG Engineering AG	Käppeli Strassen- und Tiefbau AG	Liip	Messe Luzern AG
Ibis Hotel Baden Neuenhof	Kasper Gruppe	Linde Kryotechnik AG	Meyer Burger Technology AG
IBSA Institut Bio- chimique SA	Kästli Bau AG	Linnea SA	Micarna SA
IGP Pulvertechnik AG	Keller Laser AG	Linth stz AG	Microsoft Schweiz GmbH
Ikea AG	Keller Swiss Group AG	Lista Office Group AG	Micro-Sphere SA
Ikea Supply AG	Kellerhals Carrard Lausanne/Sion SA	Lombard Odier Darier Hentsch & Cie	Migros
Ilapak International SA	Kelly Services (Suisse) SA	Lonza	Mikron Tool
	Keramik Laufen AG	Losinger Marazzi AG	Mirabaud & Cie SA
	Kern Tunneltechnik SA	Lötscher Plus Gruppe	Möbel Schubiger AG
	Kissling + Zbinden AG Ingenieure Planer	Lotti Impianti SA	Mobimo Holding AG
		Louis Dreyfus Company Suisse SA	Molkerei Lanz AG
		LURAG Luzerner Raststätten AG	

Morant AG  
Motorex-Bucher Group AG  
Mövenpick Gruppe  
MPM facility services SA  
MST Systemtechnik AG  
Mueller AG  
Müller Group  
Müller-Steinag Gruppe  
MultiNet Communication GmbH  
Multitime Quartz SA  
MUnit SA  
myStromer AG

## **N**

Natalini SA  
Nestlé Suisse SA  
Netstal Maschinen AG  
neue Holzbau AG Lungern  
Neugass Kino AG  
New Work  
Nexans Suisse SA  
Nextthink  
Nidwaldner Kantonalbank  
Niederer Kraft Frey  
Noser Gruppe  
Nova Taxi AG  
Nova Werke AG  
Novametal SA  
Novartis  
Novex AG  
NRP Ingenieure AG  
NZZ Mediengruppe

## **O**

OBI Bau- und Heimwerkermärkte Systemzentrale (Schweiz) GmbH  
Oblamatik AG  
Obwaldner Kantonalbank  
Octapharma AG  
Oettinger Davidoff AG  
OM Pharma SA  
ONE swiss bank SA  
Optiswiss AG  
Orange Business Switzerland SA  
Ostschweiz Druck AG  
Otis SA  
Outils Rubis SA

## **P**

Pagani Pens SA  
Palo Alto SA  
Panatere SA  
Panerai  
Pantex AG  
Partners Group AG  
Patric métal SA  
Pax

Pemsa Group  
Perrin Frères SA  
Pfefferlé & Cie SA  
Philip Morris Products SA  
Phoenix Contact AG  
Phoenix Mecano Komponenten AG  
Pidas AG  
Piguet Galland & Cie SA  
Pilatus Flugzeugwerke AG  
Pini Group SA  
PK Bau AG  
PKZ Burger-Kehl & Co AG  
Plastifil SA  
Poli Bau AG  
Pomp It Up  
PP Pharmacie Principale SA  
PQR Béton SA  
Pramol-Chemie AG  
Pricewaterhouse-Coopers AG  
Primeo Energie  
Privatklinik Hohenegg AG  
Privatklinik Reichenbach b. Meiringen AG  
Privera AG  
Probst Group Holding  
Project Partners Ltd Consulting Engineers  
Proman Group Switzerland  
Prometall Handel AG  
ProNet Services SA  
Protectas SA  
Proton AG  
Publicis Gruppe Schweiz  
Puliconsult SA

## **Q**

Qualibroker Romandie SA

## **R**

Raboud Group SA  
Radio Top AG  
Raiffeisenbanken  
Randstad (Schweiz) AG  
Rapelli SA  
Rapp AG  
RATP Dev Suisse SA  
Raymond Weil SA  
Recomatic SA  
Regine Group  
Regio Energie Solothurn  
Regionalverkehr Bern-Solothurn AG  
Reglatronic SA  
Regloplas AG  
Reichmuth & Co Privatbankiers  
Resilux Schweiz AG

Resonetics SA  
Restaurant de l'Hôtel de Ville de Crissier SA  
Retraites populaires  
Rezzonico Bioggio  
Rhenus Alpina AG  
Ritschard SA  
Robert Aebi AG  
Robert Fuchs AG  
Roche Diagnostics (Schweiz) AG  
Rofra Bau AG  
Roland Berger AG  
Ronchi SA  
Ronin Primeurs SA  
Roschi Rohde & Schwarz AG  
Rosta AG  
Rothschild & Co  
Rotronic AG  
RVA Associati SA  
RWB Groupe SA  
RWD Schlatter AG

## **S**

SA Vini Bée  
Sabag  
Saint-Gobain Weber AG  
Sajet SA  
Salanitro SA  
Sandro Sormani SA  
Sanitas Krankenversicherung  
Sanitas Troesch AG  
Sanofi-Aventis (Suisse) SA  
Saphir Group AG  
Sara SA  
Sarix SA  
Sarna Plastec AG  
Schaeppli Grundstücke AG  
Schär + Trojahn AG  
Schärli Architekten AG  
Schätti AG Metallwarenfabrik  
Schelling AG  
Schenk SA  
Scherrer Haustechnik AG  
Schiller AG  
Schlagenhauf Gruppe  
Schlatter Industries AG  
Schmid AG energy solutions  
Schmid Gruppe  
Schmolz + Bickenbach Stahlcenter AG  
Schneider System AG  
Schott Schweiz AG  
Schurter Holding AG  
Schütz Montlingen GmbH & Co KG Selters (DE)

Schüwo AG  
Schwabe Pharma AG  
Schwab-Guillod AG  
Schwob AG  
Schwyzer Kantonalbank  
Scintilla AG  
SCS Supercomputing Systems AG  
Sécheron SA  
Securitas AG  
Seehotel Waldstätterhof AG, Brunnen  
Sefar Holding AG  
Seilfabrik Ullmann AG  
Sekisui Alveo AG  
Senn Transport AG  
Sensirion AG  
Services industriels de Lausanne  
Servier (Suisse) SA  
Settelen AG  
Seven Group  
Seven-Air Gebr. Meyer AG  
SFI Switzerland SA  
SGA Management SA  
Shopping Arena Center Management  
Sieber Transport AG  
Siegfried Holding AG  
Similasan  
Similor AG  
Simplex AG Bern  
Sinergy Commerce SA  
SIP Industrial Promotion SA  
SITAG AG  
Skan Group AG  
Skynight SA  
Société Electrique des Forces de l'Aubonne SA (SEFA)  
Sogood SA  
Solo Swiss SA  
Someco SA  
Sonepar Suisse SA  
Sontex SA  
Soulfood SA  
Spaeter Ticino SA  
SPAG Schnyder, Plüss AG  
Sphinx Werkzeuge AG  
SPIE ICS AG  
Spinelli SA  
Spitex Oberaargau AG  
Spühl GmbH  
St. Claraspital  
St. Galler Kantonalbank  
St. Gallisch-Appenzellische Kraftwerke AG  
Stabilit Suisse SA  
Stadtcasino Baden AG

Stadthaus Nidau AG  
 Stanserhorn-Bahn  
 Stauer & Hasler  
 Architekten AG  
 Steeltec AG  
 Steinemann Technology AG  
 Steiner Group AG  
 Steiner-Beck AG  
 STH Swiss Tech  
 Holding AG  
 Stiftung Gurten-Park im  
 Grünen  
 Stihl Kettenwerk Schweiz  
 Stirnimann AG,  
 Baumaschinen  
 Stobag AG  
 Stöckli Swiss Sports AG  
 Stöcklin Logistik AG  
 Strabag AG  
 Straumann Group  
 Streuli Bau AG  
 Stutz Holding AG  
 Suitenhotel Parco  
 Paradiso, Lugano  
 Sushi Shop Genève SA  
 Sushizen SA  
 Suteria Chocolata AG  
 Swiss Automotive  
 Group AG  
 Swiss Caps AG  
 Swiss Holiday Park AG  
 Swiss International Air  
 Lines Ltd  
 Swiss Krono AG  
 Swiss Life AG  
 Swiss Visio Network  
 Swisscom Digital Technology SA  
 SwissFactory.Group AG  
 Sword Group  
 SWS Medien AG PriMedia  
 Sygnium Bank AG  
 Symbiotics SA  
 Syngenta AG

## T

TAG Maintenance Services  
 Tamaro Drinks SA  
 Tamedia Publications  
 romandes  
 TBS, La Buona Stampa SA  
 TD Synnex Switzerland  
 GmbH  
 Team Marketing AG  
 Tech Insta SA  
 Techautocenter Sàrl  
 Tech'Firm SA  
 Telsonic AG  
 Tenconi SA

TEQ SA  
 TESA Technology  
 Textilcolor AG  
 Textil-Service Frei AG  
 The Nail Company SA  
 Thierry Koulbanis  
 Restaurants McDonald's  
 Thomann  
 Nutzfahrzeuge AG  
 ThomasLloyd Global Asset  
 Management  
 (Schweiz) AG  
 Thomi + Co AG  
 Thurgau Travel AG  
 Ticino Hotels Group  
 Ticino Parquet SA  
 Tillotts Pharma  
 Tisca Tischhauser AG  
 Tofwerk AG  
 Toldo Strassen- und  
 Tiefbau AG  
 Toneatti AG  
 Tornos SA  
 Translait SA  
 Traveco Transporte AG  
 TRAVYS  
 Treier AG  
 Trelleborg Sealing Solutions  
 Stein am Rhein AG  
 Trianon SA  
 Tricycle SA  
 Triumph Holding AG  
 Trumpf Schweiz AG  
 Truvag Treuhand AG  
 TUI Suisse  
 Tusa precision tools SA  
 Twerenbold Reisen Gruppe  
 Typ AG

## U

UBS AG  
 Ugo Bassi SA  
 Uhde Inventa-Fischer AG  
 Ultra Marine Food SA  
 Unifil AG  
 Unigestion SA  
 Unione Farmaceutica  
 Distribuzione SA  
 United Rivers AG  
 United Security  
 Providers AG  
 Univerre Pro Uva SA  
 update Fitness AG  
 Urner Kantonalbank

## V

Valiant Bank AG  
 Valora  
 Varin Etampage SA  
 Vasano

Vaucher Manufacture  
 Fleurier SA  
 Vaudoise Assurances  
 Holding SA  
 Vebeo AG  
 Vetropack SA  
 Victorinox AG  
 Villa Garni Gardenia,  
 Caslano  
 Villars Holding SA  
 Vitogaz Switzerland AG  
 Volvo Car Switzerland AG  
 Von Bergen SA  
 VP Bank (Schweiz) AG

## W

W. Thommen AG  
 W+P Weber und  
 Partner AG  
 Walliserhof Grand-Hotel &  
 Spa, Saas-Fee  
 Walter + Bai AG  
 Warteck Invest AG  
 Wäsche-Perle AG  
 Wider SA  
 Wiederkehr AG  
 Wilhelm AG  
 Willisau Group  
 Winteler SA  
 Winterthur Gas &  
 Diesel AG  
 Wirz AG Bauunter-  
 nehmung  
 Wunderman Thompson  
 Switzerland AG  
 Wyder Gartenbau AG  
 Wyniger Gruppe

## Y

Ypsomed AG

## Z

Zambon Svizzera SA  
 Zehnder Group AG  
 Ziegler AG  
 Zimmer Biomet  
 Zoo Basel  
 Zuger Kantonalbank  
 Zugerland Verkehrs-  
 betriebe AG  
 Zürcher Kantonalbank  
 Zürich Marriott Hotel

## 1

1875 Finance SA

## 2

25hours Hotel Company  
 Zürich AG

## 4

4B AG



**Published by**

Swiss National Bank  
Economic Affairs  
Börsenstrasse 15  
P.O. Box  
CH-8022 Zurich

**Design**

Interbrand Ltd, Zurich

**Typeset by**

Neidhart + Schön Group AG, Zurich

**Language versions:**

The Quarterly Bulletin is available in printed form in German (ISSN 1423-3789), French (ISSN 1423-3797) and Italian (ISSN 2504-3544), either as single copies or on subscription, from: Swiss National Bank, Library  
P.O. Box, CH-8022 Zurich  
Telephone +41 58 631 11 50  
Fax +41 58 631 50 48  
Email: library@snb.ch

**The Quarterly Bulletin can also be downloaded from the SNB website in the following language versions:**

English: [www.snb.ch](http://www.snb.ch), Publications/  
Economic publications/Quarterly Bulletin  
(ISSN 1662-257X)  
German: [www.snb.ch](http://www.snb.ch), Publikationen/  
Ökonomische Publikationen/Quartalsheft  
(ISSN 1662-2588)  
French: [www.snb.ch](http://www.snb.ch), Publications/  
Publications économiques/Bulletin  
trimestriel (ISSN 1662-2596)  
Italian: [www.snb.ch](http://www.snb.ch), Pubblicazioni/  
Pubblicazioni economiche/  
Bollettino trimestrale (ISSN 2504-480X)

**Website**

[www.snb.ch](http://www.snb.ch)

**Copyright ©**

The Swiss National Bank (SNB) respects all third-party rights, in particular rights relating to works protected by copyright (information or data, wordings and depictions, to the extent that these are of an individual character).

SNB publications containing a reference to a copyright (© Swiss National Bank/SNB, Zurich/year, or similar) may, under copyright law, only be used (reproduced, used via the internet, etc.) for non-commercial purposes and provided that the source is mentioned. Their use for commercial purposes is only permitted with the prior express consent of the SNB.

General information and data published without reference to a copyright may be used without mentioning the source.

To the extent that the information and data clearly derive from outside sources, the users of such information and data are obliged to respect any existing copyrights and to obtain the right of use from the relevant outside source themselves.

**Limitation of liability**

The SNB accepts no responsibility for any information it provides. Under no circumstances will it accept any liability for losses or damage which may result from the use of such information. This limitation of liability applies, in particular, to the topicality, accuracy, validity and availability of the information.

© Swiss National Bank, Zurich/Berne 2022