

Strategic perspectives on the future of central banks statistics

Alberto Naudon D. –Member of the Board–

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International Context



Globally, central Banks are adapting their statistical frameworks to meet the challenges of a fast-changing data landscape. This includes:

- Embracing digitalization and big data to enhance policy-relevant insights.
- Advancing governance and transparency to ensure data quality and accountability.
- Strengthening international cooperation to close data gaps and improve comparability.

This shift positions statistics as a strategic asset for economic stability and global financial coordination.

Overview of the Central Bank of Chile



Vision of the Central Bank of Chile



Technological Modernization and Strategic Data Governance

- Chief Data Officer (CDO) → Statistics and Data Division.
- Progress in centralized repository and active management of agreements.
- Data is primarily anonymized, with tightly regulated access to identifiable records.



Innovation and exploration of generative AI

- Innovation is a key strategic focus, though generative AI is still in its early exploratory stage.
- Focus on microdata to support monetary and financial policy decisions.




Data dissemination

- Expanded the set of publicly available data, incorporating more regional indicators and experimental statistics.
- Enhanced data accessibility through improved graphical tools for user-friendly dissemination.



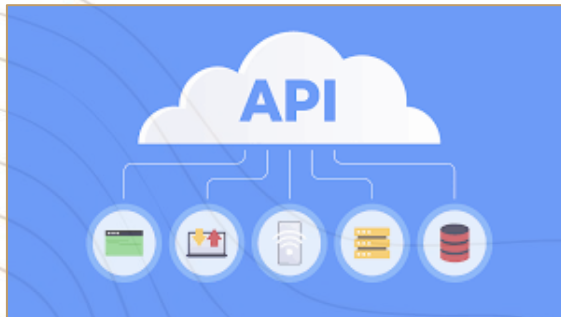
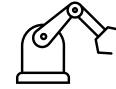
Modernization of Technological Capabilities





-  Data Modernization (Big Data): In recent years, the Central Bank of Chile has driven a comprehensive modernization of statistical and technological capabilities.
- The bank has developed a Big Data platform capable of processing large volumes of information from diverse sources, including electronic invoices and sales receipts.
- This platform currently supports the calculation of the Regional Sales Indicators (ICVR) and the Daily Sales Index for Retail Trade (IVDCM), and development is underway to incorporate the Corporate Trade Credit Indicators (ICCE), all within the framework of Experimental Statistics. These indicators have already demonstrated notable reductions in processing times.



Modernization of Technological Capabilities






-  Platforms such as the Integrated Derivatives Information System (SIID-TR) and the Foreign Exchange Information System (SICAM) have **incorporated interfaces like APIs**, representing a leap in technological modernization by enabling automatic integration, reducing manual errors, and increasing efficiency in data processing.
-  Operations Queries: Through SICAM with APIs, operations such as **foreign investments or external debt** of reporters can be queried, providing a timely and efficient view of international financial flows.



Strategic Data Governance



-  Institutional Data Governance: Strategic Data Governance at the Central Bank of Chile ensures secure, efficient data use through CDO roles, strict access protocols, and a collaborative data community.
-  Cross-sectional Access to Critical Data: Platforms such as BDE, SIID, and SICAM allow internal areas to access validated financial and exchange information, improving coherence in analysis and decision-making.
-  Integration with Key Entities CMF-BCCH: The transfer of structured information from the Central Bank to the CMF enables more precise supervision of exchange and financial operations, ensuring control, transparency, and regulatory support.




Innovation and Exploration of Generative AI



- One of the main challenges is finding the right balance between embracing innovation and effectively mitigating the associated risks.
- Key concerns include privacy protection, compliance with data provider agreements, ethical use of data, and maintaining data quality.
- Our current approach to exploring Generative AI has been through sandbox projects; we welcome suggestions on how to accelerate and scale these efforts.
- Nonetheless, we have made significant progress in leveraging microdata to support monetary and financial policy decision-making.



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Statistics Database (BDE)

[Home](#)
[Daily Indicators](#)
[Chart Pack](#)

New search for statistics database

Contents

 - Activity and employment
 - Gross domestic product (GDP)
 - Quarterly
 - GDP, chained price
 - GDP by activity
 - Contribution
 - Annual
 - Consumption of households and NPISH
 - Labour force, employment and unemployment rate by region
 - Regional sales based on electronic invoicing
 - Internet Job Ads Index (IJAI)
 - Number of Constitutions in the Registry of Companies and Societies (RCS)
 - Annual company demographics
 - Foreign direct investment
 - Population
 - Economic Indicators
 - Financial Indicators
 - Mobility statistics
 - Statistics by Region

≡ Regional

Date

Date end

Frequency

Calculation








2013

2025

Quarterly

Original series

Quarterly gross domestic product by region, chained volume at previous year prices, linked series, reference 2018 (billions of chained-pesos)

Sel.	Serie	IV.2019	I.2020	II.2020	III.2020	IV.2020	I.2021	II.2021	III.2021	IV.2021	I.2022	II.2022	III.2022	IV.2022	I.2023	II.2023	III.2023	IV.2023	I.2024	II.2024	III.2024	I.2025
<input type="checkbox"/>	Region of Arica and Parinacota	382	324	307	314	386	333	387	391	443	370	425	428	442	378	412	434	472	404	409	405	461
<input type="checkbox"/>	Region of Tarapacá	1,206	1,144	1,039	1,095	1,113	1,106	1,208	1,196	1,280	1,194	1,230	1,210	1,234	1,191	1,182	1,296	1,353	1,304	1,282	1,325	1,314
<input checked="" type="checkbox"/>	Region of Antofagasta	4,274	3,938	3,776	3,839	4,144	3,751	3,788	3,888	4,133	3,635	3,825	3,902	4,201	3,735	3,848	4,223	4,282	4,015	4,086	4,456	4,700
<input type="checkbox"/>	Region of Atacama	913	904	861	860	914	946	970	966	1,076	1,007	983	936	1,066	988	1,004	991	1,054	996	960	1,039	1,086
<input type="checkbox"/>	Region of Coquimbo	1,467	1,514	1,335	1,326	1,482	1,492	1,550	1,525	1,602	1,484	1,514	1,502	1,625	1,524	1,579	1,561	1,647	1,576	1,592	1,582	1,646
<input type="checkbox"/>	Region of Valparaíso	3,504	3,460	3,084	3,077	3,465	3,373	3,537	3,578	3,919	3,727	3,803	3,731	3,996	3,754	3,794	3,748	3,991	3,817	3,807	3,833	4,094
<input type="checkbox"/>	Metropolitan Region of Santiago	19,984	18,988	16,361	17,029	19,793	19,128	19,895	20,539	22,383	20,600	21,205	20,714	21,612	20,645	21,188	20,592	21,970	21,062	21,346	20,909	22,625
<input type="checkbox"/>	Region of Libertador General Bernardo O'Higgins	2,052	2,180	1,654	1,614	2,141	2,266	1,921	1,781	2,342	2,243	1,929	1,813	2,343	2,235	1,935	1,802	2,239	2,303	1,943	1,832	2,608
<input type="checkbox"/>	Region of Maule	1,791	1,863	1,682	1,480	2,025	1,962	1,945	1,622	2,123	2,023	2,004	1,689	2,181	1,987	2,040	1,760	2,259	2,100	2,056	1,789	2,519
<input type="checkbox"/>	Region of Ñuble	692	738	621	619	715	742	752	707	815	806	787	726	802	781	761	718	806	822	782	727	846
<input type="checkbox"/>	Region of Biobío	2,887	2,771	2,658	2,566	2,869	2,823	3,076	2,877	3,088	2,958	3,105	2,962	3,176	3,074	3,340	3,201	3,302	3,246	3,322	3,314	3,360
<input type="checkbox"/>	Region of La Araucanía	1,315	1,420	1,144	1,207	1,303	1,416	1,389	1,374	1,529	1,534	1,494	1,410	1,517	1,569	1,504	1,441	1,538	1,643	1,523	1,489	1,601
<input type="checkbox"/>																						



[Home](#) / [Statistics and Data](#) / [Regional mobile App](#)



Data Dissemination



- Institutional Data-Oriented Culture: In addition to dissemination, a data culture is being built where transparency, quality, and the strategic use of information become part of the Bank's daily work. One example is the derivatives transaction information repository (SIID-TR), which transparently displays information on the derivatives and spot market interactively using Power BI on the website.

Foreign Exchange	Unit of Account / Chilean peso	Swap Promedio Cámara
Spot + derivatives	Derivatives turnover	Derivatives outstanding
		Spot Market



Spot and derivatives

Foreign currency (FC) / Domestic currency (DC: CLP, CLF)

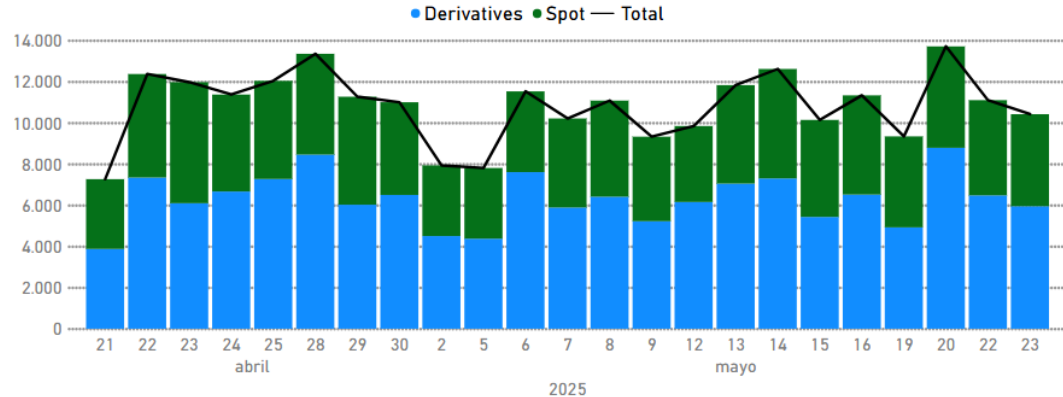
Select date range

Último 40 Días

18/04/2025 - 27/05/2025

Banks. Turnover, FC/DC, spot plus derivatives.

Millions of US dollars



Foreign Exchange	Unit of Account / Chilean peso	Swap Promedio Cámara
Derivatives turnover	Derivatives outstanding by sector	Derivatives outstanding by term



Swap Promedio Cámara (SPC) Nominal

Local interest rate derivatives in Chilean pesos

Select date range

Último 40 Días

18/04/2025 - 27/05/2025

Select purchases/sales

Net variable rate

Select market

Todas

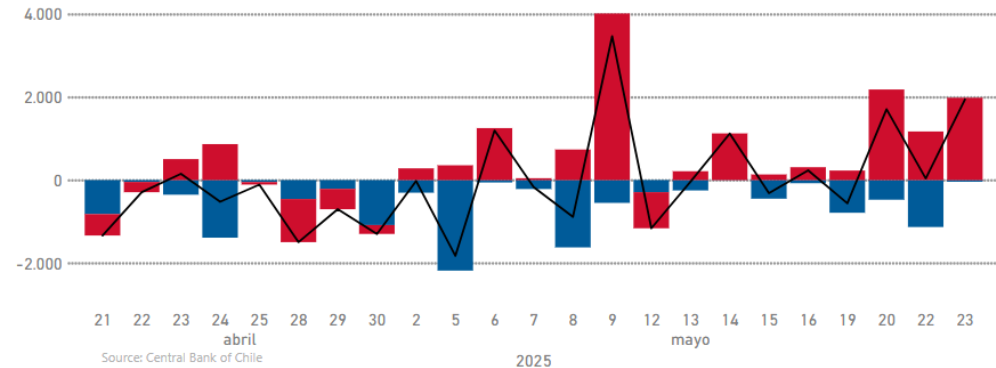
Banks. Turnover of SPC CLP by counterparty sector. Net variable rate

Billions of CLP

Select maturity

Todas

Non-bank residents Non-residents Total





The Strategic Value of International Cooperation



No Central Bank Moves Alone: The Power of Regional and Global Collaboration



- Statistical capacity building requires sustained investment in talent, training, and institutional collaboration.
- The Central Bank of Chile engages actively with BIS, IMF, OECD, World Bank, IAD, and CEMLA, and benefits from peer reviews and technical cooperation.
- Regional forums like this one are vital for harmonizing standards, sharing best practices, and closing data gaps.



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