
Sustainable bonds, social bonds, green bonds

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Introduction

Sustainalytics

Who We Are

- » Sustainalytics is the largest pure-play investment research and ratings provider dedicated to RI and ESG research
- » Over 25 years of experience in the fields of ESG & corporate governance research & analysis
- » Over 385+ professional staff with more than half engaged in research
- » Offices around the globe, providing local market knowledge



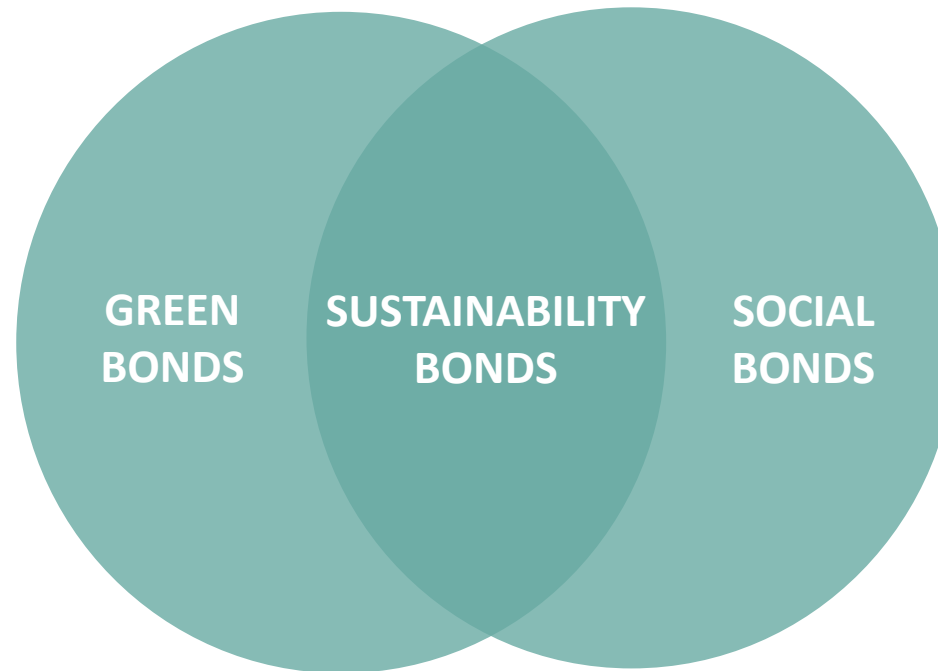
Agenda

- » 1. Green, Social & Sustainability Bonds
- » 2. Market Norms for Labelling
- » 3. Benefits of Issuing a Labelled Bond
- » 4. Advancing the SDGs
- » 5. Building a Bond Framework
- » 6. Second-Party Opinion Process
- » 7. Examples of Second-Party Opinions

Green, Social & Sustainability Bonds

What: Green, Social and Sustainability Bonds

Similar to Regular “Vanilla” Bonds but with a Focus on Impact



GREEN BONDS

Debt instrument where proceeds (re)/finance projects, assets or business activities with meaningful positive *environmental impact*.

EXAMPLE: Renewable energy; Energy efficiency; Water sustainability; Green buildings.

SOCIAL BONDS

Debt instrument where proceeds (re)/finance projects with meaningful positive *social impact*.

EXAMPLE: Access to healthcare; Access to education; Affordable housing; SME financing targeting vulnerable populations.

SUSTAINABILITY BONDS

Mixed Green and Social Use of Proceeds

Green Bonds Principles 2017



- » Voluntary process guidelines to encourage transparency and disclosure, and promote integrity in the development of the Green Bond market.
- » Last update June 2017 by the International Capital Markets Association (ICMA)
- » Four pillars of labelled green bond

Climate Bonds Initiative

ENERGY	TRANSPORT	WATER	LOW CARBON BUILDINGS	INFORMATION TECHNOLOGY & COMMUNICATIONS	WASTE & POLLUTION CONTROL	NATURE BASED ASSETS	INDUSTRY & ENERGY-INTENSIVE COMMERCIAL
Solar 	Rail 	Built (grey) infrastructure 	Residential 	Power management 	Recycling 	Agricultural land 	Manufacturing 
Wind 	Vehicles 	Green and hybrid infrastructure 	Commercial 	Broadband 	Other Recovery 	Forests (managed and unmanaged) 	Energy efficiency processes 
Geothermal 	Mass transit 		Retrofit 	Resource efficiency 	Disposal 	Wetlands 	Energy efficiency products 
Hydropower 	Bus rapid transport 		Products for building carbon efficiency 	Teleconferencing 	Prevention 	Degraded Lands 	Retail and wholesale 
Bioenergy 	Water-bourne transport 				Reuse 	Other land uses (managed and unmanaged) 	Data centres 
Wave and Tidal 	Alternative fuel Infrastructure 				Pollution Control 	Fisheries and aquaculture 	Process & fugitive emissions 
Energy distribution & management						Coastal infrastructure 	Energy efficient appliances 
Dedicated transmission						Land Remediation 	Combined heat & power 



Climate
Bond
Certified

Certification Criteria approved



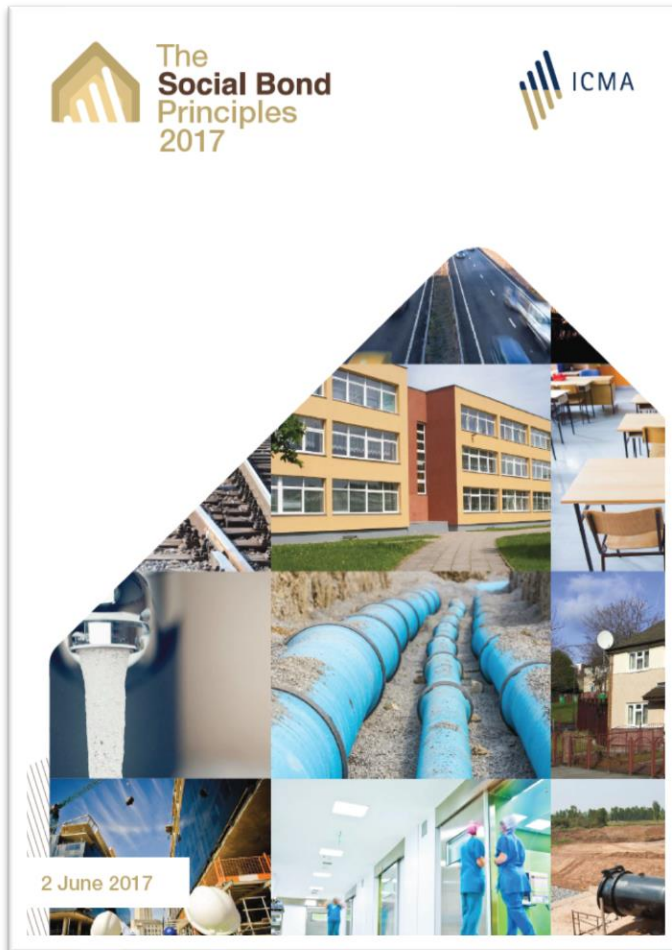
Criteria under development



Due to commence



Social Bond Principles 2017



- » Released in 2017 by the International Capital Markets Association (ICMA)
- » Leading framework globally for issuance of social bonds
- » Provides a set of principles for the social bond issuers to adhere to

How: Market Norm for Green, Social & Sustainability Bonds

Four Core Components



The
Green Bond
Principles
2017



The
Social Bond
Principles
2017

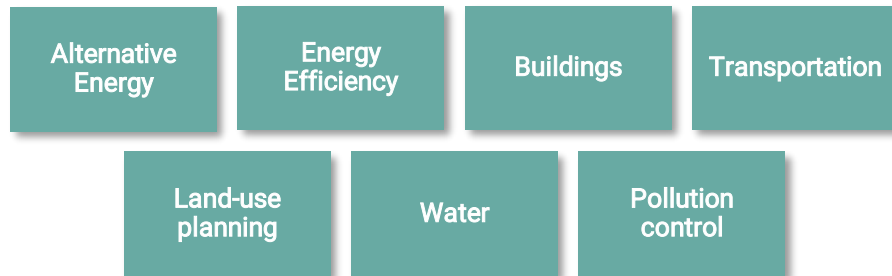
The **Sustainability Bond** Guidelines
2017



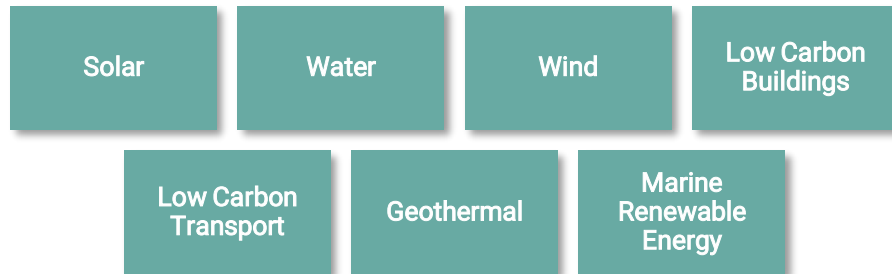
Eligible Use of Proceeds

Green Bonds

» Green Bond Principles: Categories



» Climate Bonds Standard: Taxonomies



» Customized Market Research

Social Bonds

» Social Bond Principles: Categories



» Customized Market Research

Social Impact Measurement

Examples of social impact performance indicators:

Example categories for use of proceeds	Sample social impact performance indicators
SOCIAL HOUSING	Number of mortgages provided as per regional government requirements
	Number of low-income individuals or families housed in social housing
EDUCATION	Number of students served by the buildings/facilities constructed
SOCIAL INCLUSION	Unemployment rate in region where job training programmes are offered
	Number of people enrolled in job training programmes
	Number of people from minority groups enrolled in language classes/programs
ECONOMIC INCLUSION	Proportion of microfinance, micro-enterprise, and SME loans successfully repaid
	Proportion of microfinance loan recipients with successful micro-businesses
	Number of people employed by micro-enterprises or SMEs
	Default rate of loan recipients



Benefits of Issuing a Labelled Bond

Why: Benefits of Issuing a Green, Social or Sustainability Bond

- » These bonds are very similar to, or the same as, traditional “vanilla” bonds, but provide several extra benefits as they allow the issuer to:
 - Access a wider, more diverse investor base including “Responsible Investors” that have made RI commitments but may not typically invest in the issuer/region
 - Highlight issuer’s sustainability focus or communicate environmental/social commitments
 - Enhance investor engagement
 - Improve internal collaboration
- » Most green and social bonds have been significantly oversubscribed.

Advancing the UN Sustainable Development Goals

SBP Use of Proceeds	UN SDG	SDG Target Example
Access to financial services	1. No Poverty	1.4 By 2030, ensure that all men and women, in particular the poor and the vulnerable, have equal rights to economic resources, as well as access to basic services, ownership and control over land and other forms of property, inheritance, natural resources, appropriate new technology and financial services, including microfinance
Affordable Housing	11. Sustainable Cities and Communities	11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums
SME Lending	8. Decent Work and Economic Growth	8.3 Promote development-oriented policies that support productive activities, decent job creation, entrepreneurship, creativity and innovation, and encourage the formalization and growth of micro-, small- and medium-sized enterprises, including through access to financial services
Access to education	4. Quality Education	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university
Socioeconomic advancement and empowerment	10. Reduced Inequalities	10.2 - By 2030, empower and promote the social, economic and political inclusion of all, irrespective of age, sex, disability, race, ethnicity, origin, religion or economic or other status.



SDGs example – Bancoldex Social Bond

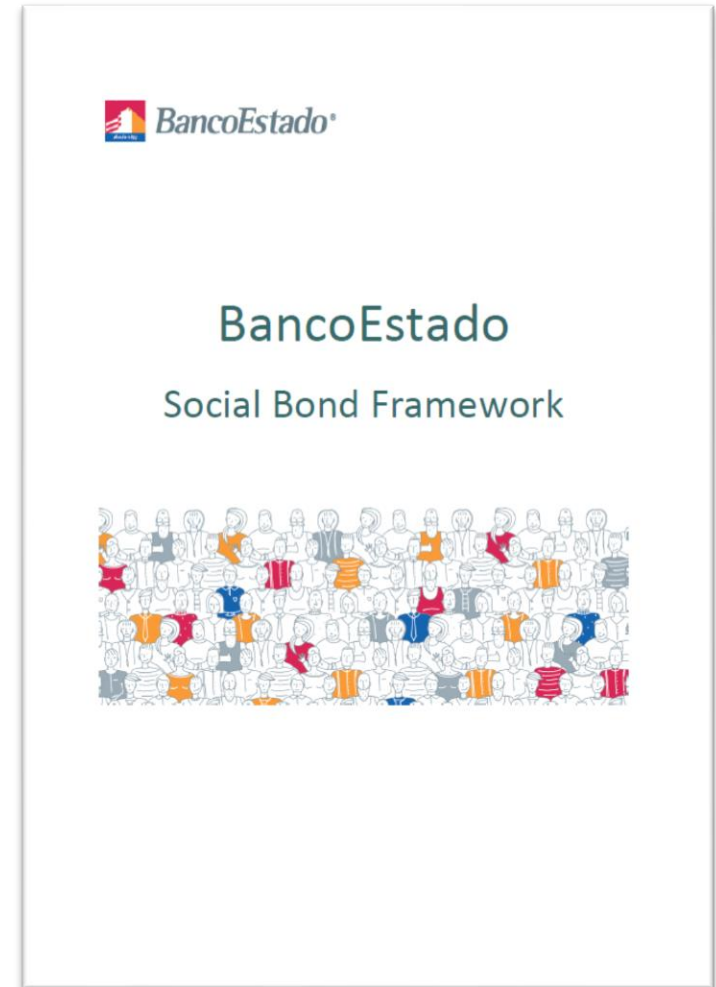




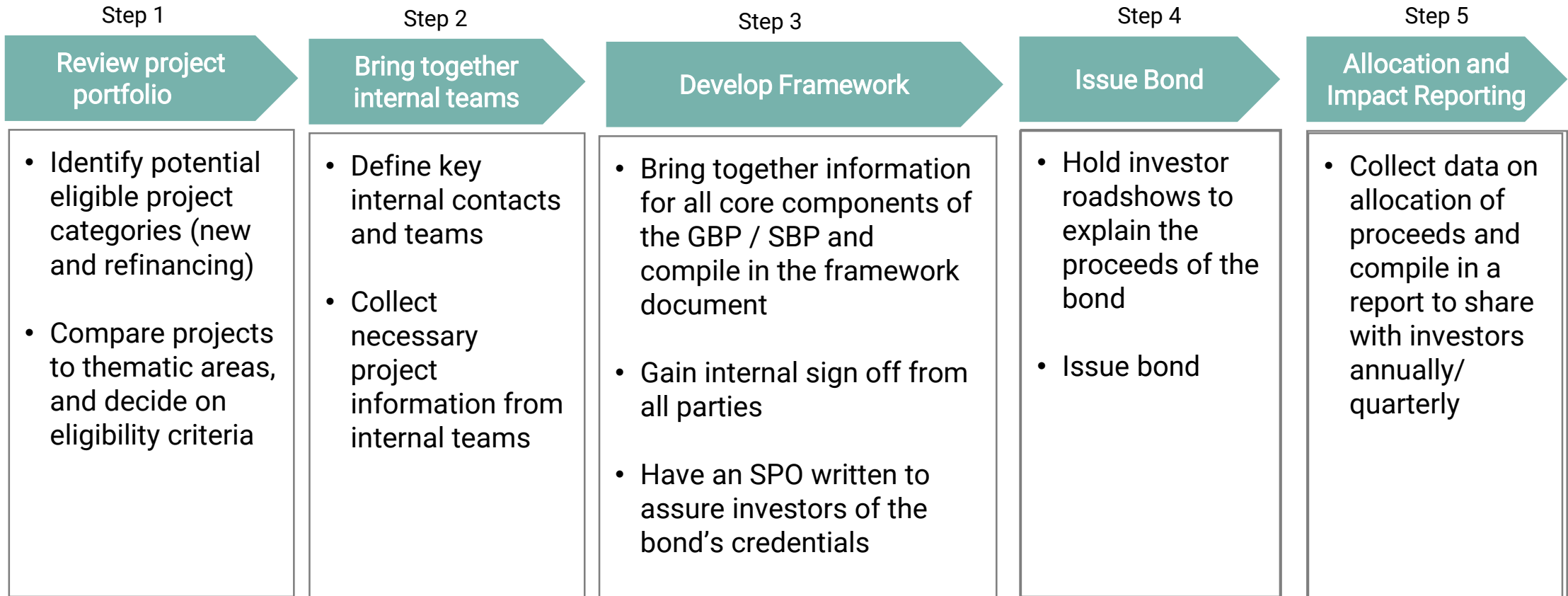
Building a Bond Framework

Building a Green or Social Bond Framework

- » Communicate the rationale for issuing the bond and understand how the bond will advance the sustainability strategy or mandate
- » Define the project portfolio for bond
- » Define eligibility criteria for projects by referencing the Green and Social Bond Principles thematic areas
- » Describe the process for project selection, identify an internal committee, and communicate the environmental and social risk mitigation process
- » Describe how the proceeds will be internally managed and tracked
- » Decide on reporting commitments



Process for Issuing a Labelled Bond (issuer)





Sustainalytics' Approach

| How: Market Norm for Green, Social & Sustainability Bonds

Climate Bonds Verification

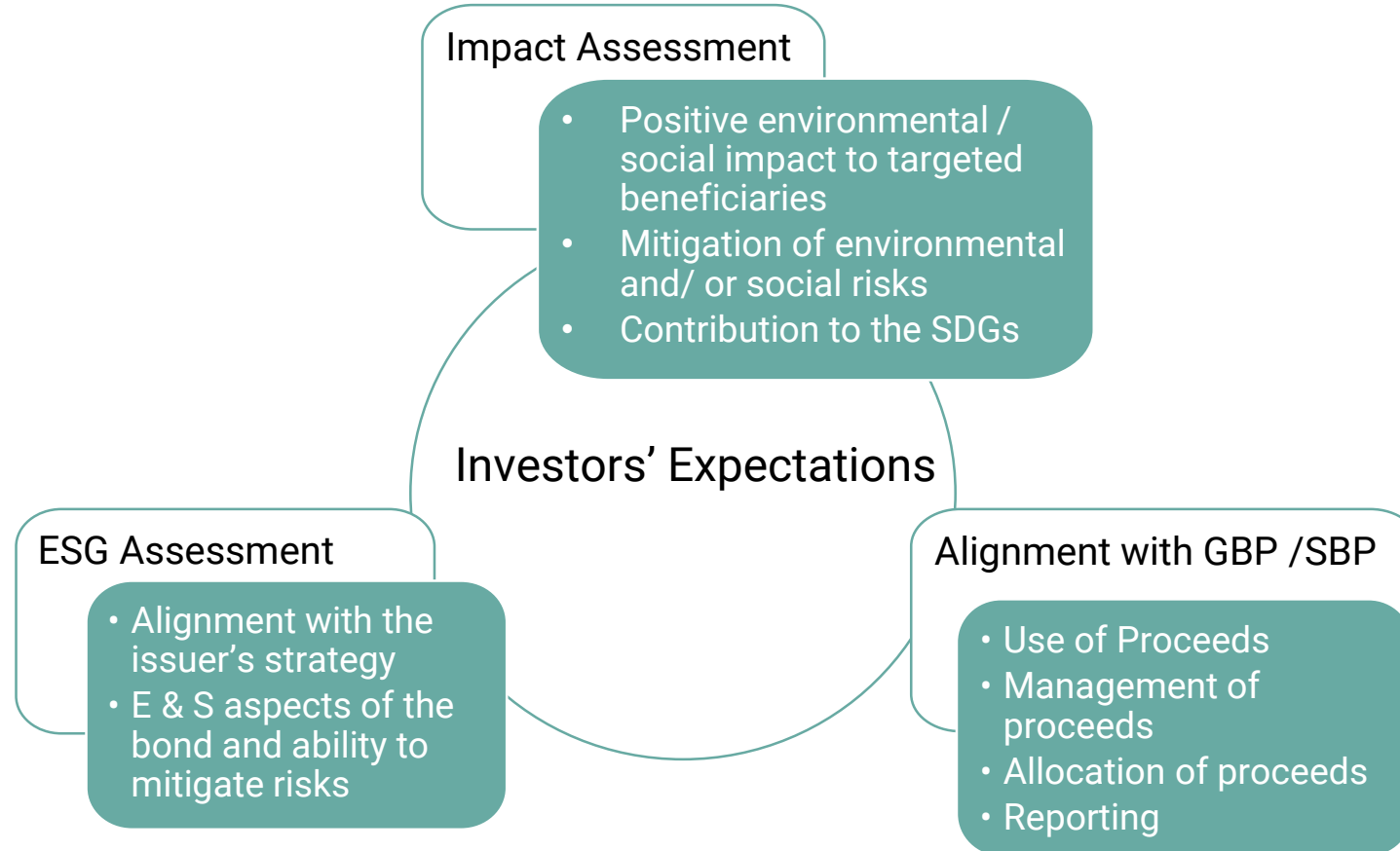
Second-Party Opinion (SPO)

- » Work with issuer to align the bond framework with investor expectations and with the four pillars of the Green and Social Bond Principles (GBP) (SBP)
- » Provide second-party opinion on the framework.
- » **End deliverable:** A narrative offering prospective investors insight into the sustainability aspects of the bond proceeds and alignment with the strategy of the issuer and GBP/ SBP/Sustainability Bond Guidelines.

Main reasons issuers pursue a **Second-Party Opinion or Climate Bonds Certification** is to provide additional assurance that the bond is indeed going towards accepted, environmentally or socially impactful projects and in turn protect against potential reputational risk.

Sustainalytics' Approach to Providing Opinions

Leveraging our expertise with investors we take a holistic approach



Sustainalytics' Approach to Impact Assessment

Two-step Impact and Risk Methodology

Assessment	Rationale for the investor	Benefit to the investor
Step 1: Does the project create positive impact?	Provides the investor with the trust that the positive impact is meaningful and in alignment with objectives set.	Allows the investor to demonstrate positive impact
Step 2: Does the issuer have measures to manage and mitigate Environmental and social risks	Provides the investor with the trust that the project does not have unintended negative impact or is at high risk of controversies	Provides the investor with assurance that potential negative impact is managed, avoiding reputation risk

Sustainalytics' Second-Party Opinion Process

A typical engagement includes



Post-Issuance Reporting

Maintaining integrity and further growing the market

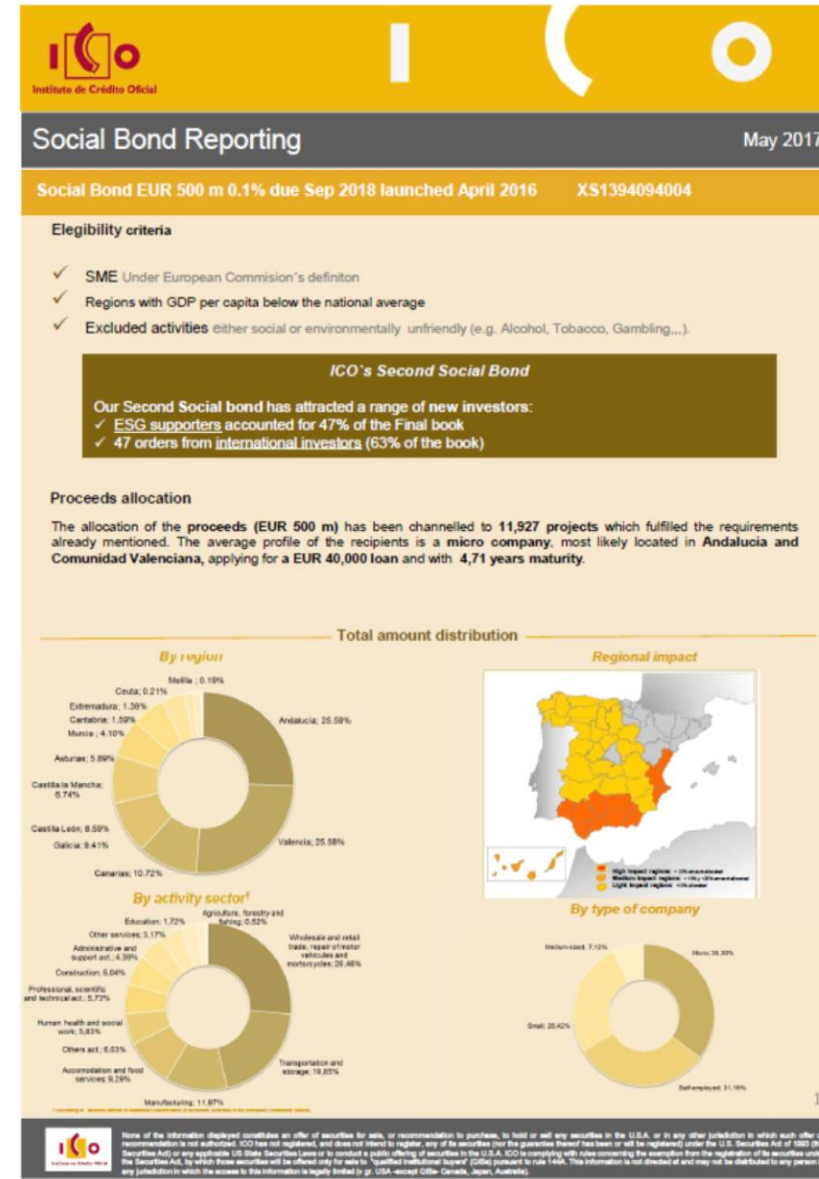
- » Post-issuance reporting is critical to ensure the integrity of the market.
- » **Allocation Reporting:** reporting to investors on how bond proceeds are allocated.
- » **Impact Reporting:** In addition, both recommend issuers report on the expected impacts of the projects.



Sample Annual Report

Instituto de Crédito Oficial Social Bond Reporting

- » ICO releases annual reporting on the allocation and impact of its social bond
- » Describes how the use of proceeds aligns with the bond's eligibility criteria (SMEs, regions with low GDP, and exclusionary criteria)
- » Provides the total amounts distributed by region, activity sector, and type of company
- » Makes all reports publicly available on its website





Sample Opinions

Global Green, Social and Sustainability Bond Projects

150+ projects from diverse issuers from 30 countries

North America

- American Municipal Power Inc. Green Bond
- Apple Inc. Green Bond
- Kaiser Foundation Hospitals Green Bond
- New York MTA Green Bond
- Mexico City Government (CDMX) Green Bond
- Nacional Financiera Green & Social Bonds
- Port of Los Angeles Green Bond
- Port of Long Beach Green Bond
- State of Connecticut Water Revolving Fund Green Bond
- SFPUC Green Bond
- Sound Transit Green Bond
- Starbucks Corporation Sustainability Bond
- University of Vermont Medical Center Green Bond
- Ygrene Energy Fund Green Securitized Bond
- Renovate America Green Bond

Africa

- African Development Bank Social Bond

South America

- Bancoldex Green Bond
- Banco Nacional de Desenvolvimento Econômico e Social (BNDES) Green Bond
- BRF S.A. Green Bond
- CMPC Green Bond
- Fibria Green Bond
- Suzano Papel e Celulose S.A. Green Bond

Europe

- Alpha Trains Green Bond
- BNG Bank Social Bond
- Castellum Green Bond
- Credit Agricole CIB Green Notes
- Comunidad de Madrid
- Council of Europe Development Bank Social Bond
- Fabege AB Green Terms
- FMO Sustainability Bond
- ICO Social Bond
- Kutxabank Social Bond
- Kommunalkredit Social Bond
- Lloyds Helping Britain Prosper Bond
- Obvion N.V. Green Storm
- NWB Bank Social Bond
- Republic of Poland Green Bond
- Repower Green Bond
- Shanks Group Plc Green Bonds
- Sainsbury Green Loan
- TSKB Sustainability Bond

Asia-Pacific

- City Developments Limited
- Development Bank of Japan Sustainability Bond
- DBS Green Bond
- Greenko Green Bond
- Jain Irrigation Systems
- Korea Development Bank Green Bond
- Link REIT Green Bond
- Mitsubishi UFG Green Bond
- National Australia Bank Limited Social Bond
- QBE Insurance Group Green Bond

Green & Social Bonds

Sample Projects

Region	Company	Description	Use of Proceeds
	Apple	Technology company	Renewable energy, green building improvements and certification, energy and water efficiency, resource conservation and use of greener materials
	Starbucks	Coffee company	Sustainable coffee purchases, loans to smallholder coffee producers and sustainable agriculture support centers
	Sound Transit	Regional transit system for Greater Seattle area	Construction of new electric and commuter railways and an express bus service
	Renovate America	Financial services firm supporting sustainable upgrades	Home improvement products that generate renewable and alternative energy and improve water and energy efficiency
	BRF	Brazilian food conglomerate	Projects related to improving energy efficiency, waste and water management, reducing GHGs and raw material use and generating renewable energy
	Suzano	Brazilian pulp and paper company	Sustainable forestry and conservation initiatives and projects related to renewable energy, conservation, water management and energy efficiency
	BNG	Dutch public sector bank	Loans to social housing associations based on their sustainability performance
	Lloyds Bank	British retail and commercial bank	Loans to SMEs and agricultural enterprises
	Caja Rural de Navarra	Spanish co-op bank	Loans to finance projects and activities focused on environmental sustainability and creating a positive social impact in local communities

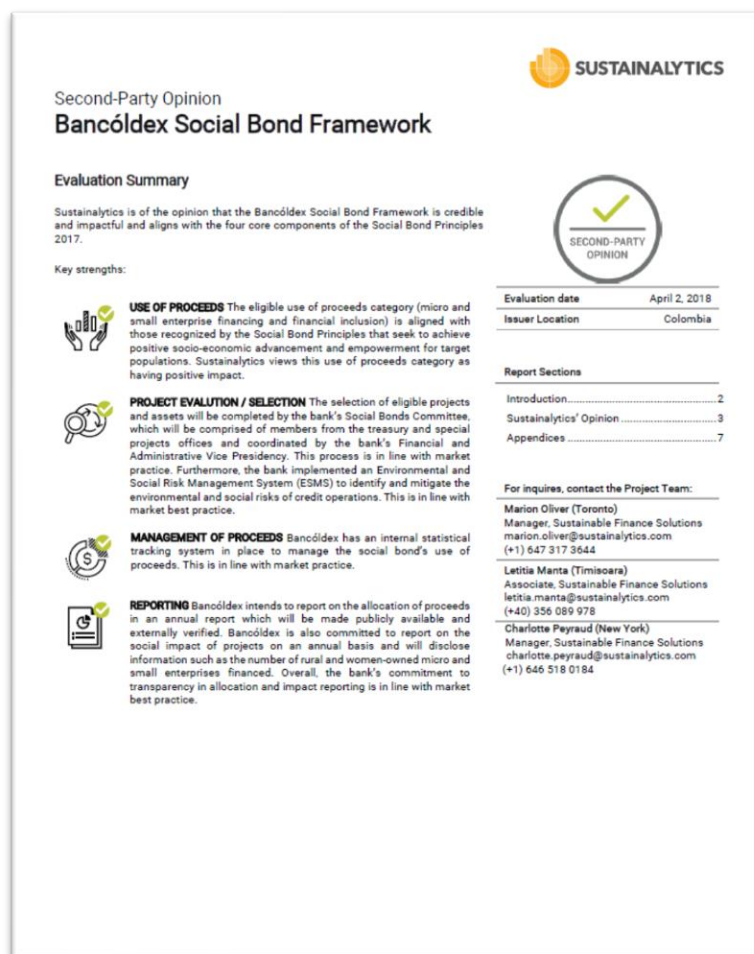
Green & Social Bonds

Sample Projects

Region	Company	Description	Use of Proceeds
	TSKB	Turkish development bank	Climate mitigation and adaptation initiatives as well as sustainable infrastructure projects
	MTR Corporation	Hong Kong Railway operator	Sustainable upgrades to the public transport system and infrastructure and initiatives to improve biodiversity, conservation, water and waste management
	Mitsubishi UFJ Financial Group	Japanese bank and financial services company	Wind and solar power projects
	Greenko	Indian clean energy owner and operator	Financing of wind farm and hydropower projects
	National Australia Bank	Australian bank	Loans to organizations that have been awarded the Employer of Choice for Gender Equality citation (EOCGE) by the Workplace Gender Equality Agency
	City Developments Limited	Singaporean property developer	Green bonds to fund the retrofit of Republic Plaza, its flagship building in Singapore

Sample Social Bond Project

Bancoldex Social Bond Second-Party Opinion



Highlights

Sustainalytics determined Framework aligned to the Social Bond Guidelines 2017, and:

- » The bank's sustainability strategy is aligned with the Colombian National Development Plan 2014-2018
- » Proceeds will support some of Colombia's most vulnerable groups and improve their financial inclusion within the country
- » ESMS process in line with market best practice
- » Projects will provide a positive contribution to advancing select SDGs

Use of Proceeds

1. **Micro and small enterprise financing:** loans to micro and small enterprises in Colombia
2. **Rural business financing:** Loans to businesses located in remote areas of Colombia as defined by the National Department of Planning
3. **Women-owned business financing:** Loans to women-owned businesses in Colombia
4. **Victims of armed conflict-owned business financing:** Loans to businesses owned by victims of armed conflict in Colombia defined by Colombian law and international humanitarian law

Sample Social Bond Project

Banco del Estado de Chile – Second-party opinion

Highlights

BancoEstado is wholly owned by the Republic of Chile and was created in 1953 for the purpose of providing financial services, with an emphasis on the unbanked and on micro, small and medium-sized enterprises .

Sustainalytics found the framework to be aligned with the Social Bond Principles and...

- » Targeted vulnerable populations have been clearly defined and government definitions are referenced
- » BancoEstado has developed an internal process for assessing loans that follows the IFC Environmental, Health, and Safety Guidelines, this is in line with market best practice

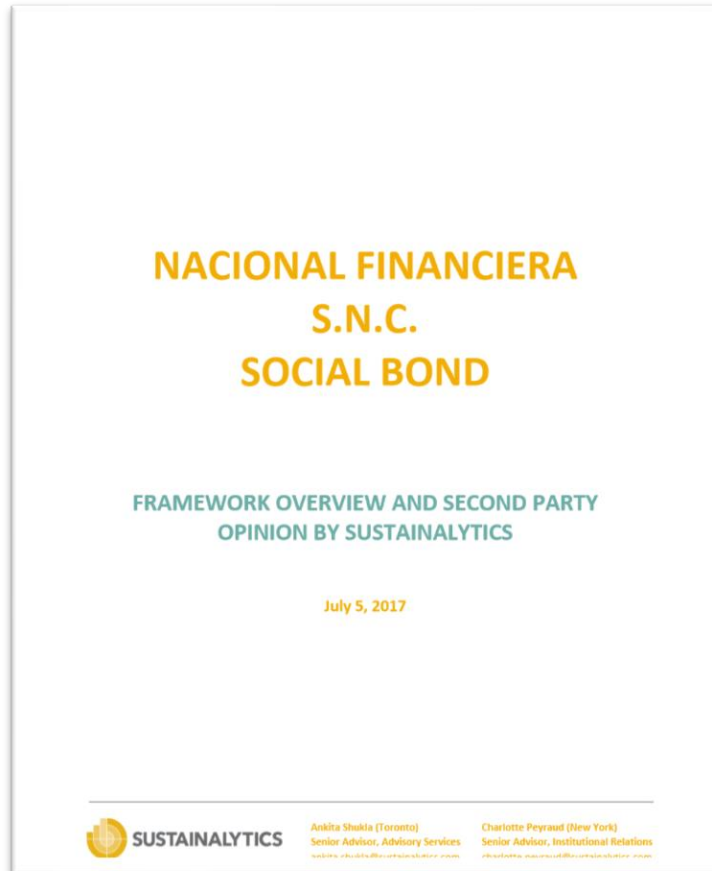
Use of Proceeds

- 1. Micro, small and medium-sized enterprises (MSMEs):** loans to MSM enterprises in Chile according to government definitions
- 2. Women entrepreneurs :** projects supporting women-owned businesses
- 3. Social housing:** Projects supporting social housing, with household income defined by the Ministry of Social Development
- 4. Access to banking services and technological support to financial inclusion:** projects supporting access to financial services for the elderly and disabled



Sample Social Bond Project

NAFIN – Second-party opinion



Highlights

NAFIN was created in 1934 for the purpose of helping to finance important socio-economic development within the country.

NAFIN previously issued 2 green bonds the social bond was fully subscribed in 18 minutes and 6x oversubscribed. Became first to be listed on Mexican Stock Exchange.

Use of Proceeds

Access to essential services: education, job training, and financing and financial services for low-income and underserved populations

Employment generation: microfinance and financing targeted at micro, small and medium enterprises (MSMEs)

Advancement and empowerment of women: credit to women entrepreneurs who want to expand their businesses

Resource efficiency: (e.g. energy, water) installation of products/technology to provide cost savings for low-income households

Natural disaster recovery: economic recovery of individuals and MSMEs impacted by natural disasters

Sustainable Finance Solutions Team



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Manages the Sustainable Finance Solutions team



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Thank you



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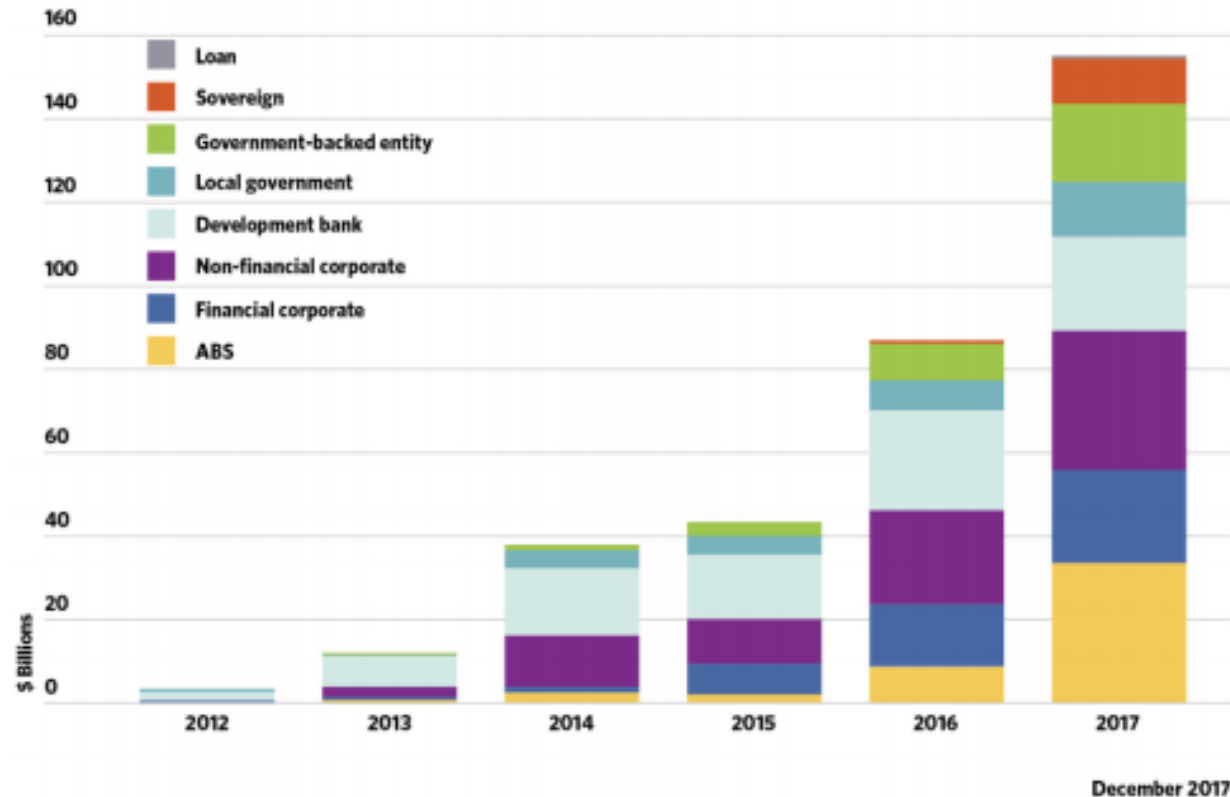


Labelled Bond Market

Growth of Labelled Bond Market

Near exponential growth over last decade

The labelled green bond market is growing rapidly



2017 in numbers

USD155.5bn – total green bond issuance

78% growth on 2016ⁱⁱⁱ

1500+ issues

37 countries of issuance on all **6** continents

239 different issuers

146 new issuers

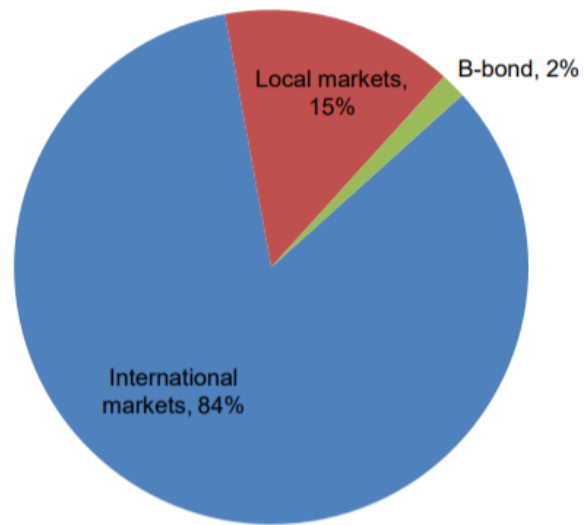
USD10.7bn – largest single green bond

3 sovereign green bonds

Latin American Climate-aligned Bond Issuances

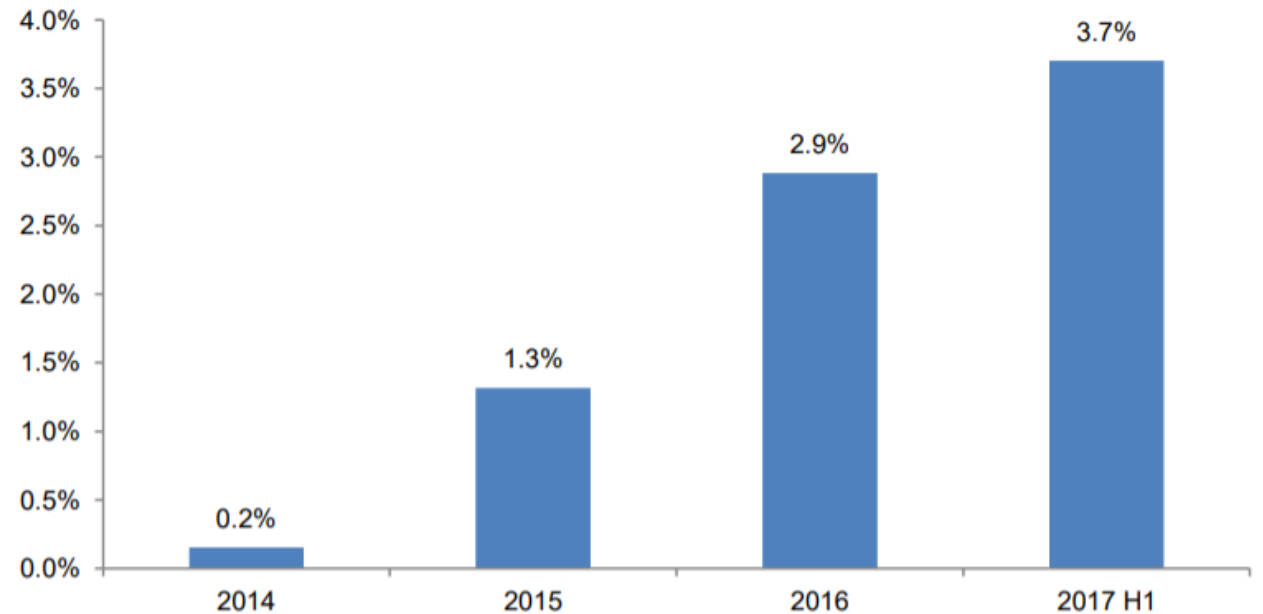
Majority issued in international markets, but remain small percentage of overall issuance, 2014-2017

LAC climate-aligned bond issuances by market, 2014-2017 YTD
(Percentage)



Source: ECLAC Washington Office, on the basis of data from LatinFinance and the Climate Bonds Initiative.

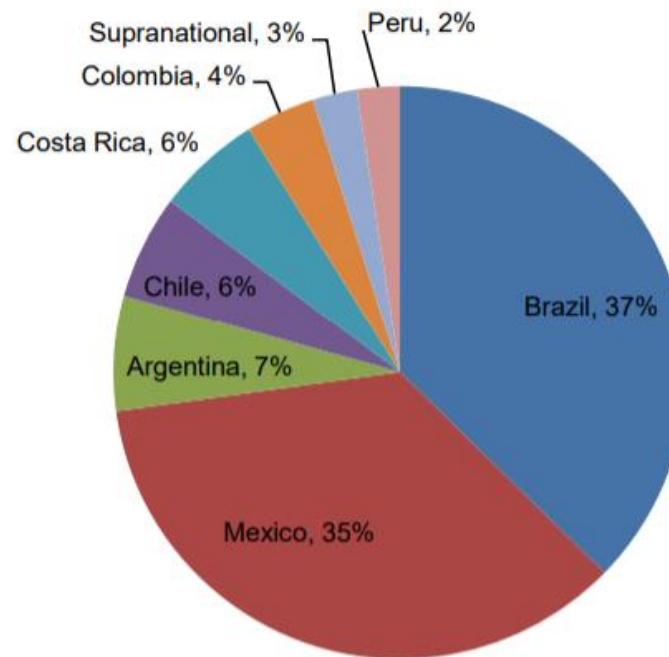
Bonds with a green focus as a share of LAC total bond issuance in international markets
(Percentage)



Source: ECLAC Washington Office, on the basis of data from LatinFinance.

Latin American Climate-aligned Bond Issuances

LAC climate-aligned bond issuances by country, 2014-2017 YTD
(Percentage)



Source: ECLAC Washington Office, on the basis of data from LatinFinance and the Climate Bonds Initiative.