

SUSTAINABILITY REPORT MULTICAMPUS UPB 2020

GRI METHODOLOGY - GLOBAL REPORTING INITIATIVE -GRI-




EcoCampus UPB

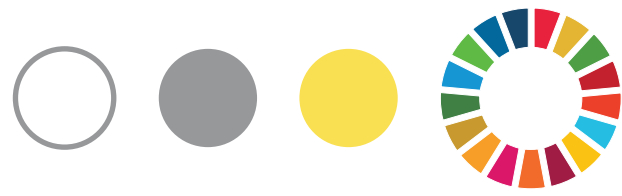
*The Universidad Pontificia Bolivariana
is a resilient institution to guarantee
quality education through pragmatic
and inclusive models.*

Monitored by Min. Education



**MULTICAMPUS HIGH QUALITY
Institutional Accreditation**
Res. NME No. 17228 from October 24, 2018 6 years





GRI 102-16

Mission

GRI 102-1 The mission of the Universidad Pontificia Bolivariana is the comprehensive education of the people who are part of it through the evangelization of culture, constant search for truth in its teaching processes, research, social projection, and the reassurance of values from the Christian Humanism for the good of society.

Vision

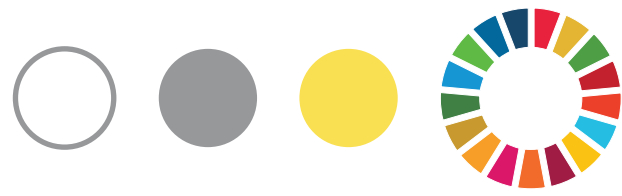
The vision of the Universidad Pontificia Bolivariana is to be a Catholic Institution of academic excellence in the comprehensive education of people with ethical, scientific, corporate, and social leadership at service of the country.

Values

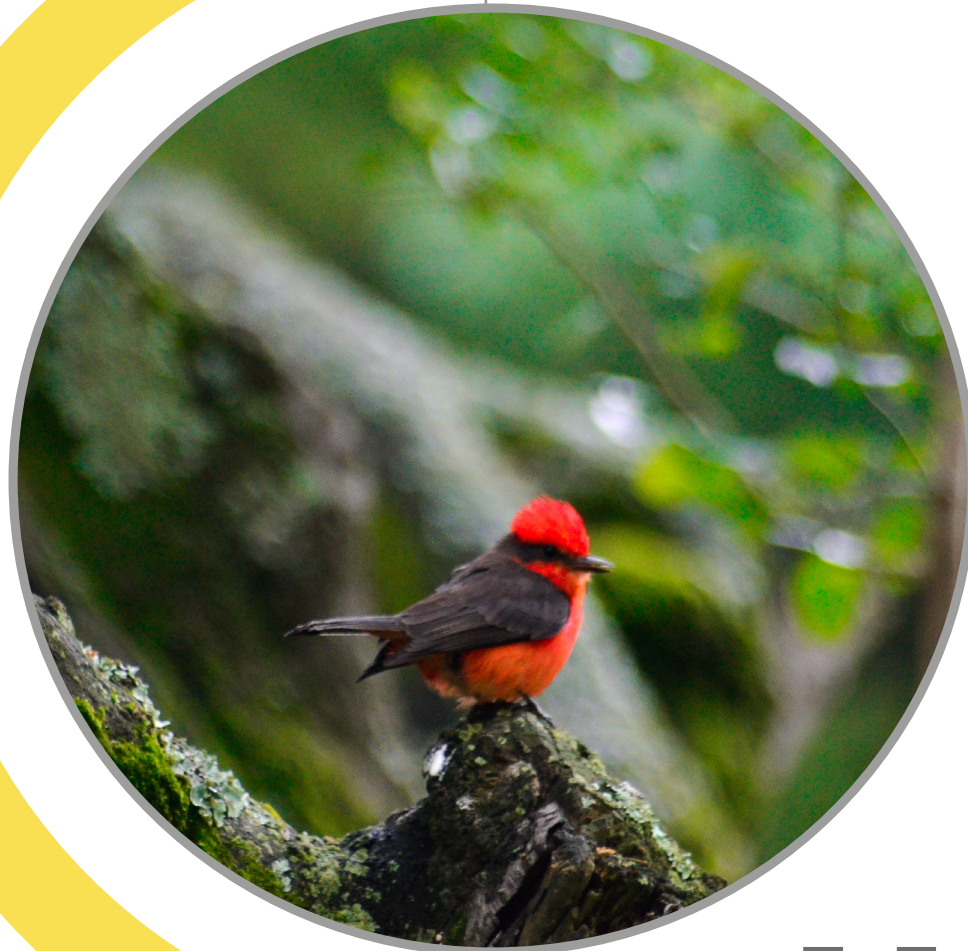
- Solidarity
- Justice
- Honesty
- Innovation and creativity
- Loyalty

Principles

- Respect and acknowledgment for each person, without any discrimination
- Search for truth and knowledge
- Commitment to peace and country development



*Founded in 1936
as Universidad
Católica Bolivariana
and declared
Pontifical in 1945.*



GRI 102-5

U UPB is a private non-profit Higher Education Institution. Founded in 1936 as Universidad Católica Bolivariana, and declared Pontifical in 1945, with legal status recognized through Resolution 48 of 1937-02-22 issued by the Ministry of Government.

The University is constituted by Schools, Faculties, Centers, Departments, Institutes, and support units:

School: unit that articulates and contains one or more faculties or programs related to the same area of knowledge.

Faculty: academic unit that offers one or more undergraduate and postgraduate programs.

Program: every academic proposal supported in a curriculum leading to an undergraduate or postgraduate degree.

Institute: academic unit from which research and scientific development in a knowledge area is promoted.

Center: academic unit from which academic, advisory, and consulting services are offered, inside and outside the University.

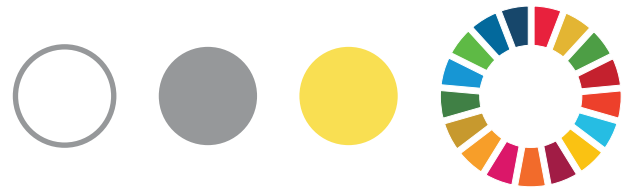


Photo courtesy of José Tamayo

Main Campus Medellín

- School of Architecture and Design
- School of Social Sciences
- School of Health Sciences
- School of Law and Political Sciences
- School of Economics, Management, and Business
- School of Education and Pedagogy
- School of Engineering
- School of Theology, Philosophy, and Humanities

Bucaramanga Campus

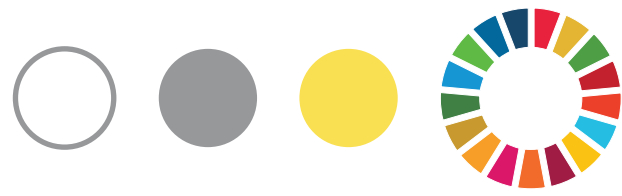
- School of Social Sciences
- School of Economics, Management, and Business
- School of Law and Political Sciences
- School of Engineering

Montería Campus

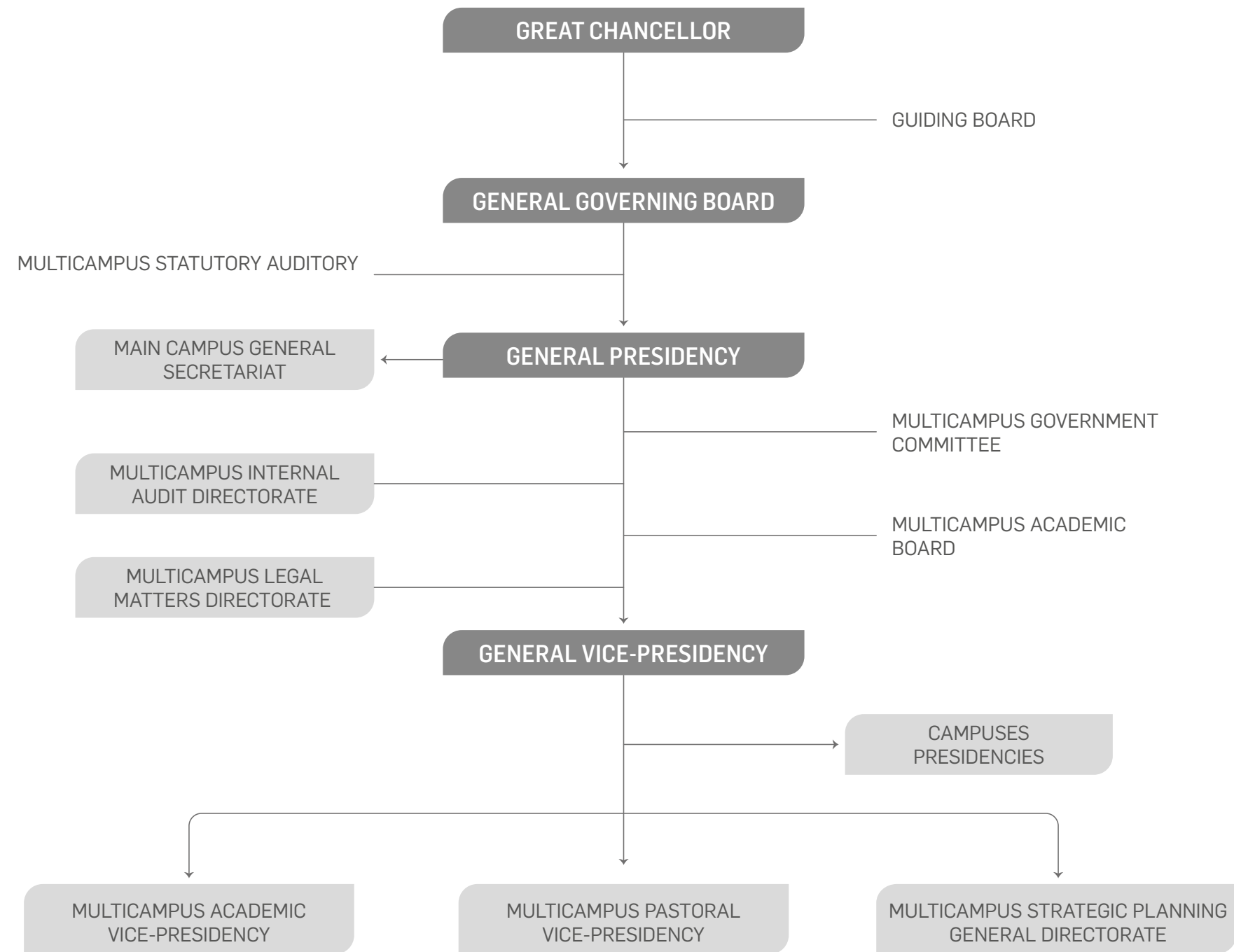
- School of Social and Human Sciences
- School of Engineering and Architecture
- School of Economics, Management, and Business
- School of Law

Palmira Campus

- School of Social Sciences
- School of Economics, Management, and Business
- School of Law and Political Sciences
- School of Engineering



MULTICAMPUS ORGANIZATION CHART





Upper management statement

GRI 102-14

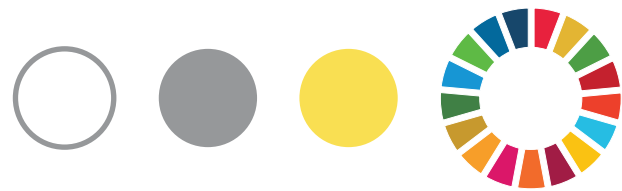
The UPB's commitment for the care of life

As General President of the Universidad Pontificia Bolivariana, I feel pleased with the work that the entire UPB Family developed during 2020, the additional efforts of professors, the dedication and discipline of students, the resilience and adaptability of administrative staff and, in general, the willingness of the Bolivarian community to continue being and doing University despite the vicissitudes and difficulties that came without warning and reminded us the value of the little things. We learned to appreciate health, to take care of the environment, to miss, wholeheartedly, classrooms, offices, the EcoCampus, coworkers and classmates, the conversations in the cafeterias, and everything that what we know, is waiting for us. We have faced a year full of challenges, for which we were not prepared as humanity, but from which we came out well, with our head held high and looking each other in the eyes with the satisfaction of the accomplished duty and a heart full of joy.

...I feel pleased with the work that the entire UPB Family developed during 2020.

Our University, from its corporate governance structure, and its social responsibility and sustainability policies, has a commitment with its stakeholders. The circumstantial measures have been aimed to take care of the health of students, professors, administrative staff, and of course, their families. Before the pandemic, we were making efforts to qualify our professors in the management and use of new teaching technologies, as well as investing in teaching-learning online platforms. For 2020, the decision to intensify these efforts through the Virtual Campus strategy was made; structured in four components: business model and competitive strategy; management model; interaction design with the Multicampus UPB and the increase of distinctive capacities. We achieved a total of 3.077 trained professors with assigned courses in online learning platforms. 2.300 courses with quality conditions in our online learning platforms with a Multicampus reach, and 1.852 students graduated through virtual gradua-





tion ceremonies in the company of their families. The measures taken during 2020 have positively impacted the environment and weather, considering that with remote work and remote education, around 28.000 people stop entering campuses every day and significantly stopped the consumption of water and electric power, contributing to the reduction of CO2 equivalent emissions to strengthening our goal of Carbon neutral, certification granted by the ICONTEC (Colombian Institute of Technical Standards and Certification for its acronym in Spanish)

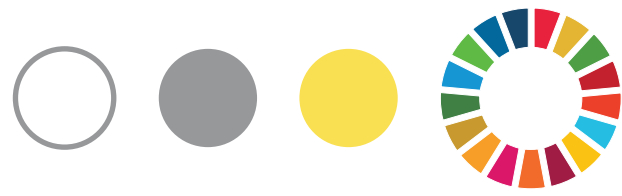
with Multicampus Coverage as the first University in Colombia and Latin America, to be confirmed for three consecutive years, demonstrating our commitment to the 2030 Agenda. The 2020 carbon footprint is equivalent to 20% of the impact generated in 2019.

The institutional reflections on the pandemic have led us to come up with different alternatives to, along with the community, get ahead of the current situation as this condition affects us all in different dimensions. Therefore, the University designed a benefits plan for students and their families, including reduction in tuition costs, as well as payment options

with financing plans. This helps our students to continue their education, while maintaining the operation of the University as we keep our collaborators employment. During 2020, we were able to accompany families along with benefits from our program "UPB Contigo" (UPB With you), in which \$39.000 million pesos (COP) were allocated for the most vulnerable ones, who had connectivity difficulties, foreign students, scholarships, discounts, and different economic aid through the mobilization of our own resources.

To anticipate the effects of the mandatory quarantine on physical and mental health, a special plan with well-being activities was designed, oriented to achieve harmony between work and personal life in a confinement situation. This plan included guided sport activities, a massive digital communication strategy including recommendations on active pauses, good nutrition, and healthy sleep habits to favor proper resting. This well-being plan is accompanied by the mental health committee gathering eleven internal units and an interdisciplinary group of professionals that accompany the people of our community. This stellar moment of humanity has become an opportunity to increase the spiritual economy of everyone through the institutional pastoral model. On the other hand, the University has also helped from its School of Medicine and Nursing, as well as from the Clínica Universitaria Bolivariana, mainly, with the adaptation and provision of all its technological, physical, and human infrastructure capacities for the care of the affected people by COVID-19.





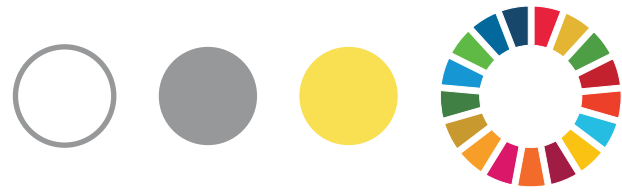
Thanks to major donations and own resources, \$1.472 million pesos (COP) were invested for the expansion project, meaning, it went from 6 to 24 ICU beds, and 6.697 patients were treated through telemedicine. Additionally, we have made available research equipment and laboratories to, in collaboration with health authorities and specialized laboratories of other Universities, speed up the application of diagnosis tests.

During 2020, we achieved great recognitions for our academic, research, and social projection work. According to the most recent version of the U-Sapiens Ranking, the Universidad Pontificia Bolivariana is the best private University in Antioquia, and the third best private University in the country. This version highlights the academic quality and the impact of its research work. Likewise, we are in the top 10 universities in the global context that, according to Impact Rankings led by Times Higher Education, decisively aim to comply with the Sustainable Development Goal 13,

Climate Action and, finally, the University will be awarded for its management in the “Plan Padrino” (Sponsor Plan) from the Ministry of Education, that recognizes the academic management and the strengthening of the quality assurance system in education, in the subcategory Solidarity, Resilience, and Innovation of the Higher Education Institutions that lead the “Plan Padrino”.

Also, we consolidated the innovation and entrepreneurship scenario by implementing programs such as “Innovadores UPB” (Innovators UPB), allowing to create an innovation culture and that our collaborators participate in 10 education modules to develop their profiles with leadership, entrepreneurship, and digital transformation skills, in addition, 77 individuals participated in the Intrapreneurs strategy to formulate new business models within our University, in which three projects have been selected as candidates for the creation of spin-offs with our mentoring. According to Forbes, we currently have four entrepreneurial graduates in the Top 100 of the best Colombian Startups, and three entrepreneurial graduates in the top 20 Innovation ranking from the “Asociación Nacional de Empresarios de Colombia – ANDI” (National Business Association of Colombia for its acronym in Spanish).

The current pandemic situation has not only shown us how vulnerable humanity is due to the effects on the health of the people in our country and around the world, but it has also allowed us to identify the lack of equality in terms of access to resources and opportunities, aside from teaching us the fragility of our society as far as adopted political and economic models. We have a clear and determined commitment to return to University campuses, and with an investment of \$1.700 million pesos (COP),



we have adjusted the University in alternation, taking also under consideration the orientations of regional and national governments.

I, once again, want to thank you for your commitment and persistence in this titanic work of society transformation through education in a situation that has allowed us to acknowledge ourselves in our values as social individuals, as a collective, as a global society without distinctions, and proposing a new way of social life in a new world order, based on work committed to excellence and service, thinking in a new way of doing University based on the idea of a planetary society and culture, a transnational education through pragmatic and inclusive models; to promote collaborative, inter-institutional, transdisciplinary, and ethical work with the strong purpose of promoting sustainable development dynamics with a global scope; to intensively work for the University vindication and *raison d'être*, from the role it plays in social and human transformation, and to think about rescuing the essential purpose

of the University and teaching: educate not just in professions, but also, teach and educate in knowledge, to think ethically and critically, educate to learn to be responsible and assume responsibilities, even in the adoption of responsible postures towards contemporary consumption, educate in new subjectivities for life and guarantee the achievement of global objectives to which we are called as a society.

Fr. Julio Jairo Ceballos Sepúlveda,
Universidad Pontificia Bolivariana General President



Spiritual biosafety
protocol



Fr. Diego Alonso Marulanda Díaz
Pastoral Vice-President



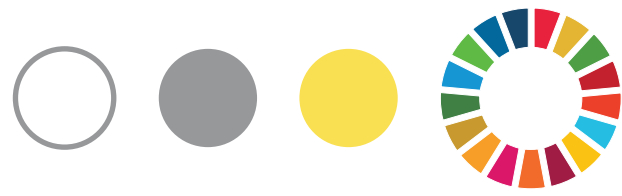
Our commitment to sustainability

Luis Eduardo Gómez Álvarez,
General Vice-President



Research strategic focus areas

Álvaro Gómez Fernández,
Academic Vice-President



Stakeholders

For the University, stakeholders are the actors in the ecosystem of which the UPB is a part of, with whom it must relate, and attend in a strategic and differentiated way through the development and transfer of its value offer, aiming to contribute to transformation, sustainability, and the achievement of everyone's purposes.

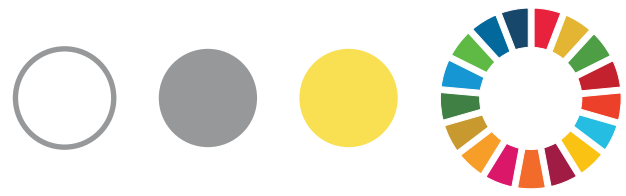
GRI 102-40

- Students
- Employees and Directives
- Academic and Research Sector
- Public Sector
- Corporate Sector
- Social Sector
- Community
- International Organizations
- Mass media, influencers, and value content generators
- Archdiocese and Diocese
- Graduates
- Donors and Benefactors
- Union

GRI 102-42 UPB builds ever stronger ties with its stakeholders and establishes mechanisms that allow adequately managing and understanding their needs and expectations to provide a high-quality service, and to fulfill the ultimate objective of the University: social and human transformation. For the consolidation of the stakeholders, a collaborative effort with a Multicampus scope was carried out. For the identification, characterization, prioritiza-



tion, and dialog with the interest groups, several co-creation sessions were held with interdisciplinary groups. **GRI 102-43** To promote the participation of our stakeholders in establishing the materiality, different consultation strategies were designed such as: workshops, surveys, focus groups, meetings, among others, and the use of social networks was encouraged to enable the expression of ideas and points of view.



SDGs Prioritization

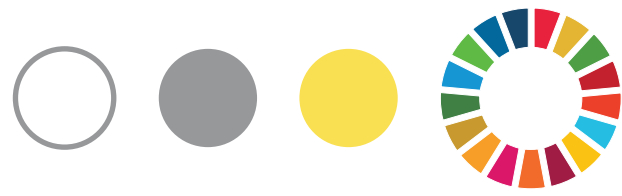
GRI 102-48 GRI 102-49 The UPB finds in the 2030 Agenda one of its main global benchmarks for the environmental, social, and economic impact management. Since 2017, the connection between the actions of the University and the Sustainable Development Goals has been made explicit in sustainability reports, so that the contribution to such goals is much more effective. In 2019, the UPB conducted a prioritization exercise that allowed identifying in which of the 17 SDGs there are direct impacts, consistent with its position as a higher education institution. In this process, SDGs 3, 4, 6, 7, 9, 13, 16 and 17 were prioritized, to which a special approach will be made with the purpose to determine the progress and commitment of the Institution in the consolidation of a real Sustainable Development.

In this process, SDGs 3, 4, 6, 7, 9, 13, 16 and 17 were prioritized.

Surveys to stakeholders

GRI 102-21 GRI 102-44 - GRI 102-46 One of the tools used to consult our stakeholders, was the sustainability survey in which perceptions were recorded about the eight Sustainable Development Goals that were prioritized by the University in 2019. The survey was available in the Banner System for students who answered it during the 2020-1 pre-enrollment period; a Microsoft Forms form was created for professors and administrative staff, this allowed to collect their perceptions and it was published through the "De Interés" (Of interest) newsletter and work meetings. In total, 11.163 responses were obtained and are detailed later.

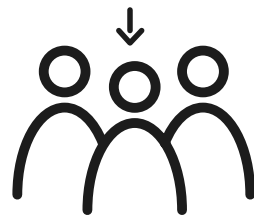




GRI 102-18

Decision-making bodies

Guiding Board

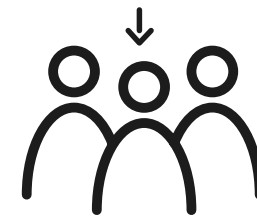


The Board was born as a guiding observatory for the General Governing Board of the University and its resulting transformations; hence one of its members is also an adviser, which has allowed to establish a complementary link between the two activities.

The Board objectives are:

- Protect the University patrimony through a consciously and comprehensive analysis of its finances.
- Carry out a detailed monitoring of the financial indicators.
- Design strategies for the economic sustainability of the University.
- Support the administrative and financial decisions that must be made.

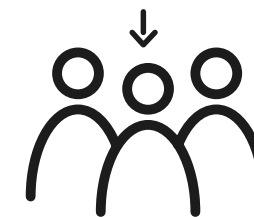
Governing Board



The General Governing Board is the highest collegiate authority throughout the Universidad Pontificia Bolivariana, and is formed by the following members of the Main Campus:

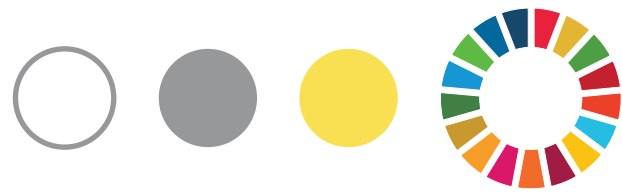
- General President
- Three (3) Deans
- School Principal
- A representative of the teaching body
- A representative of the student body
- A representative of the graduates
- A representative of the business sector, preferably a University graduate

Presidency Committee

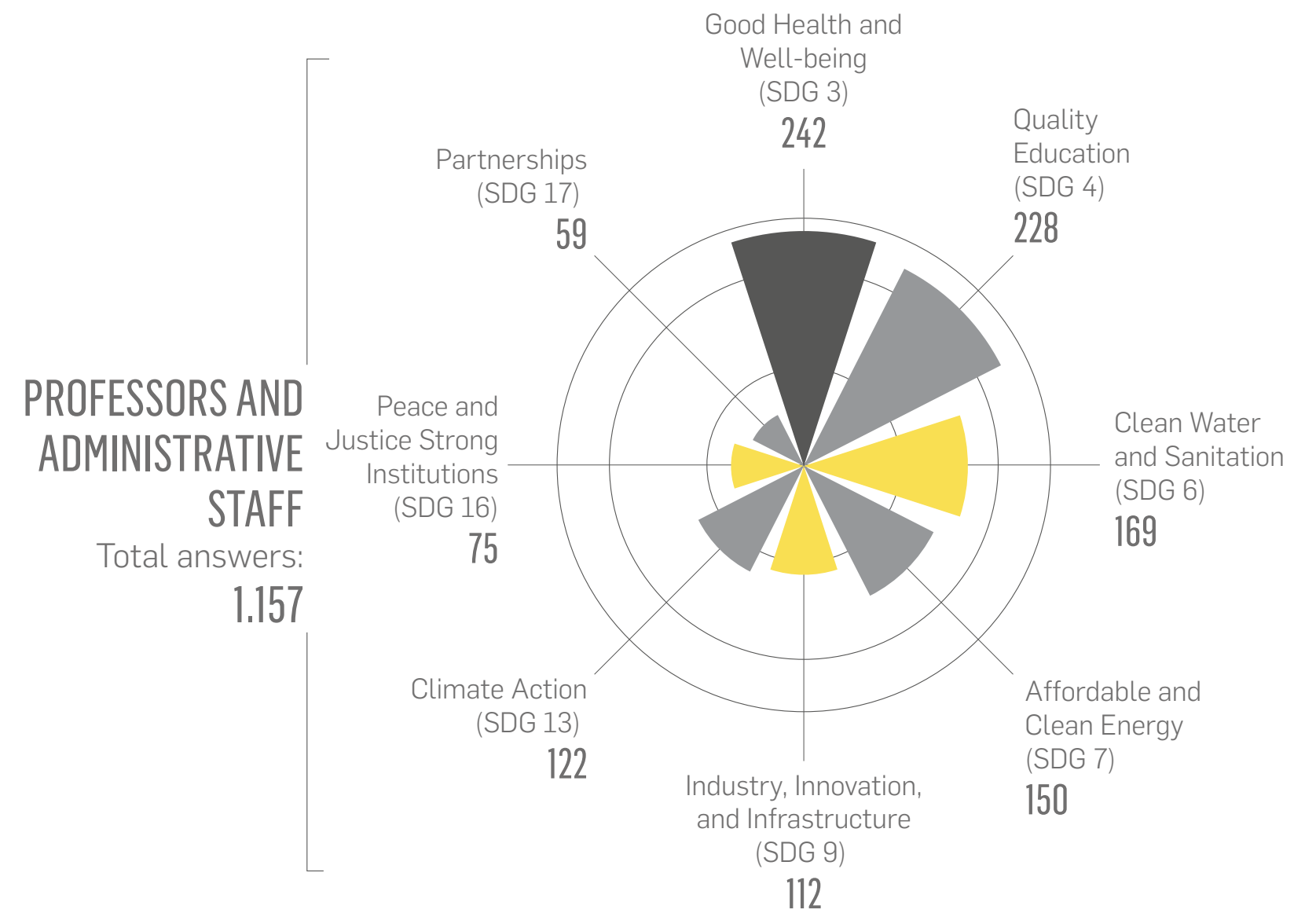
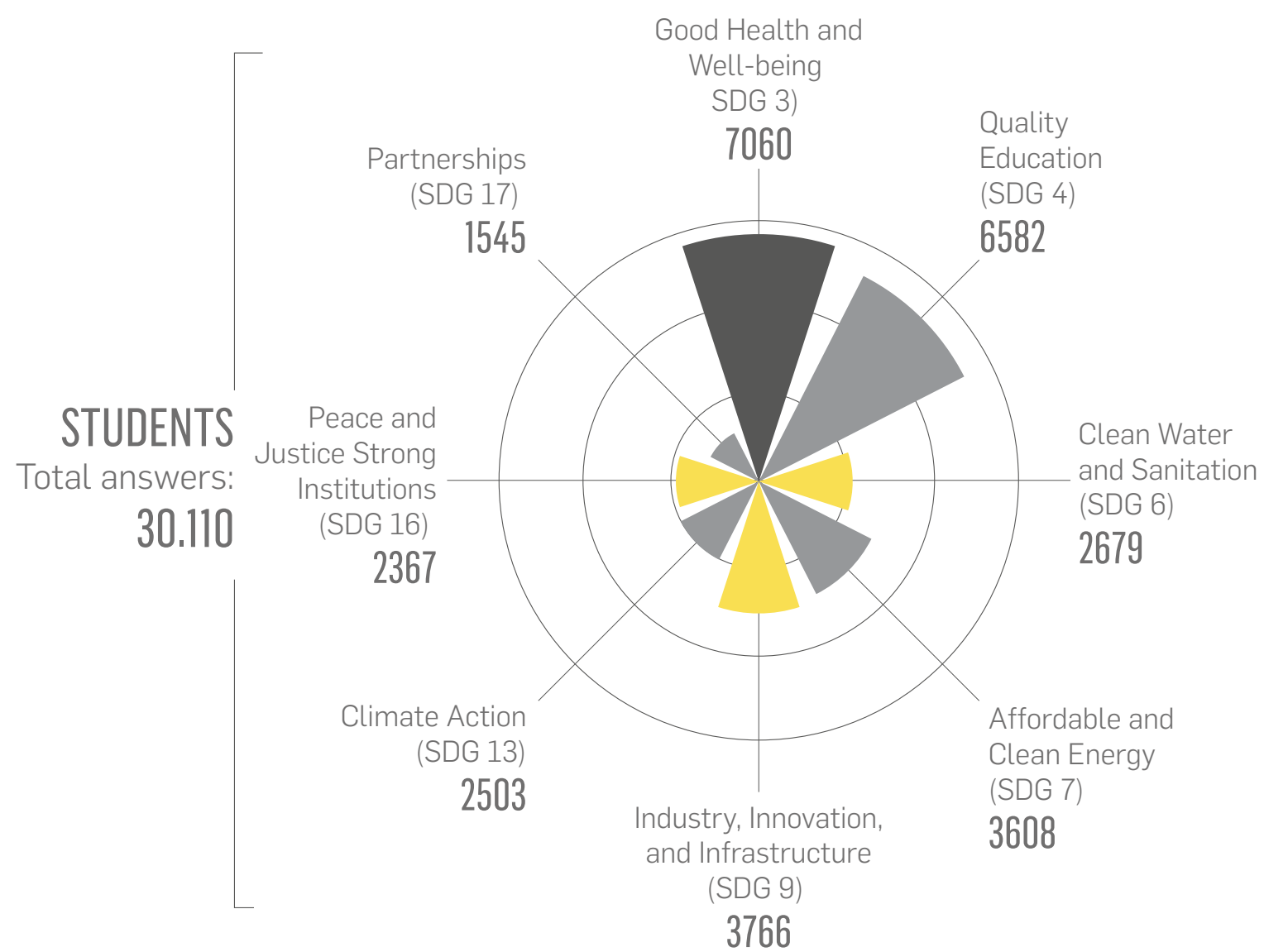


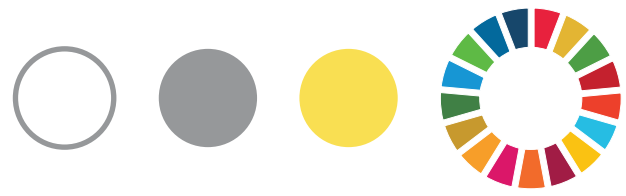
- Academic Board
- Pastoral Committee
- Multicampus Sustainability Strategic Committee
- University Well-Being Committee
- Library Committee
- Mental Health Committee
- Innovation Committee



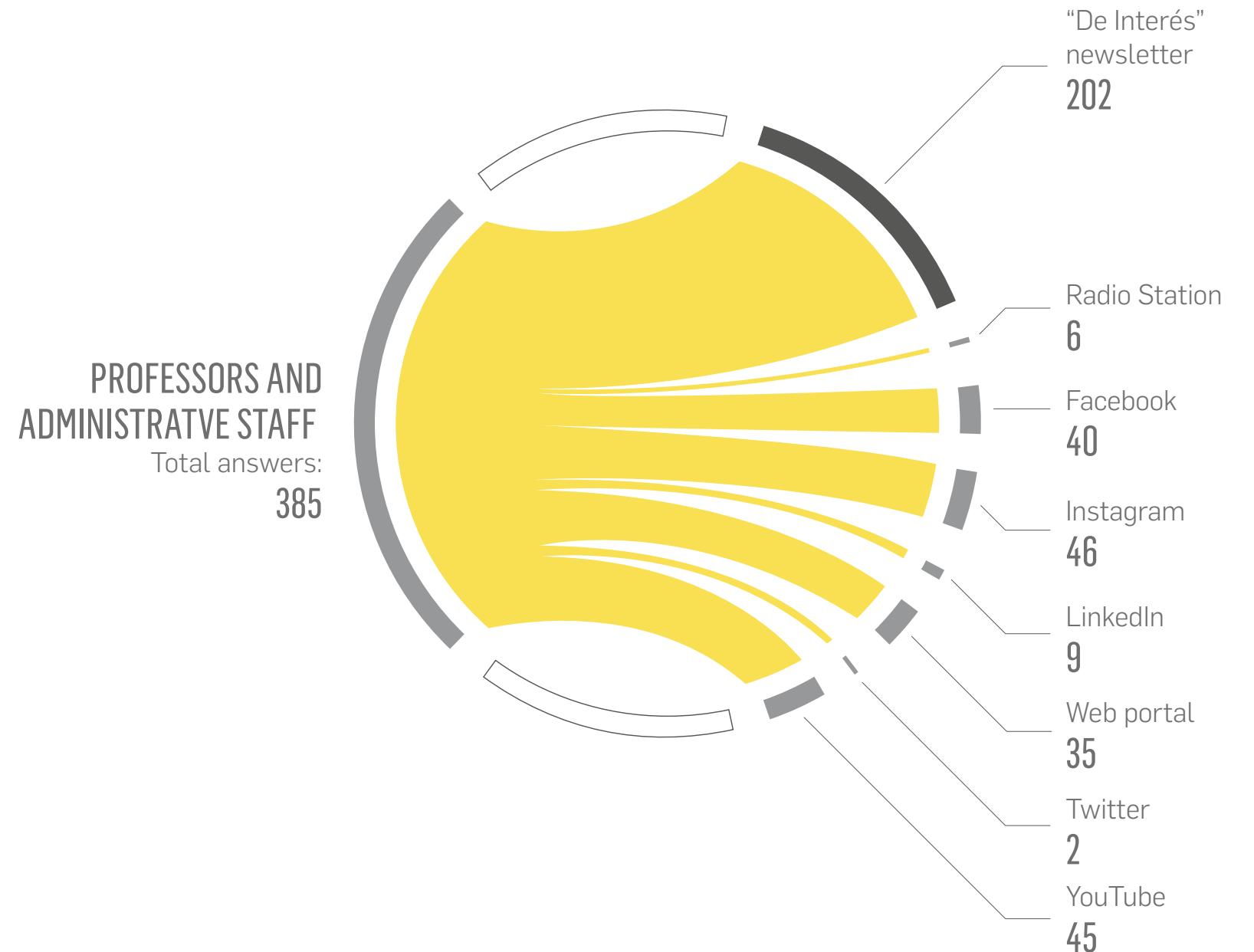
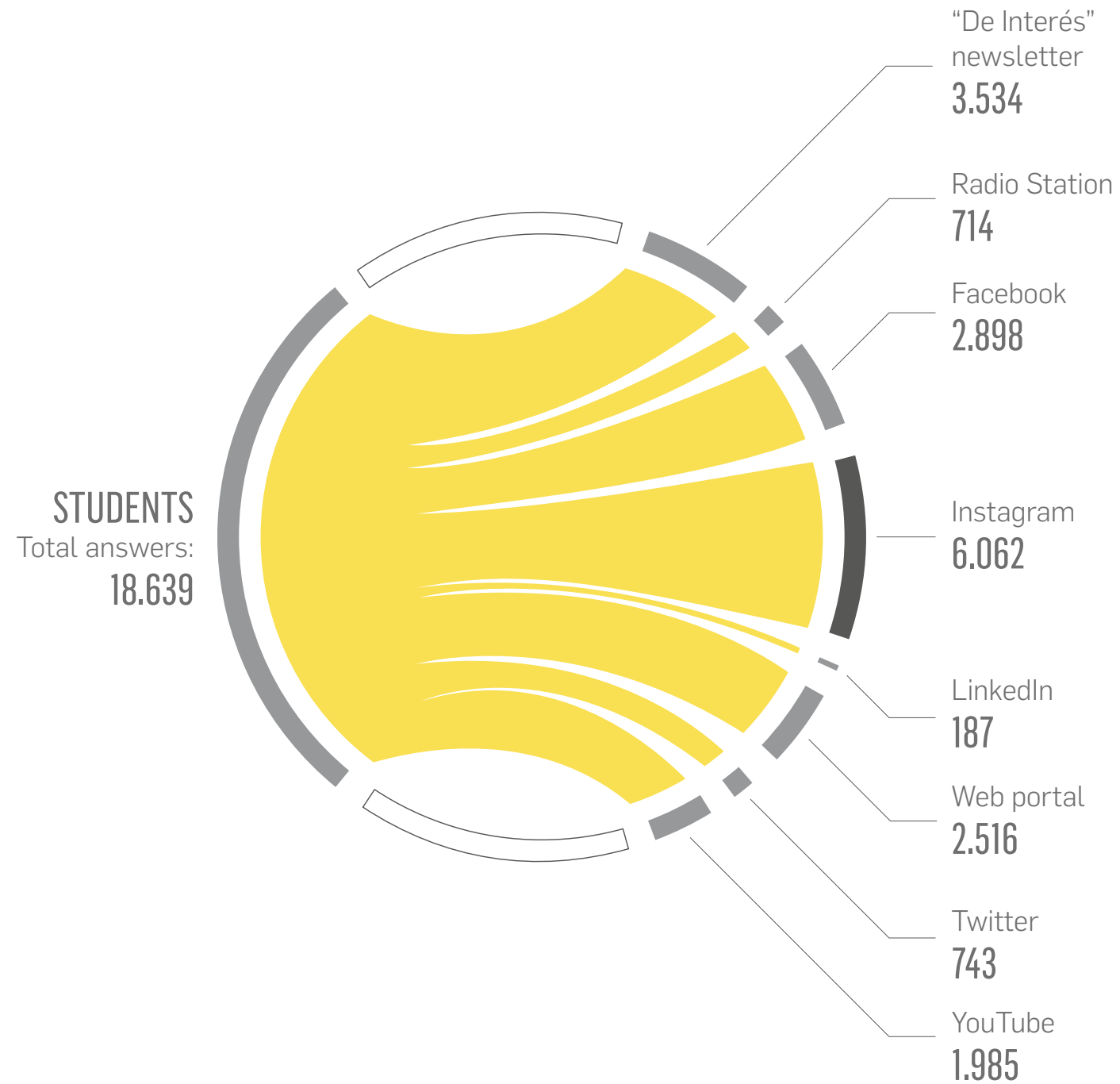


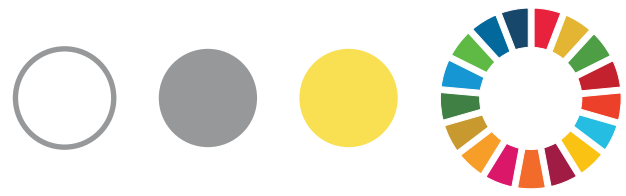
To the question, which of the SDGs would you like to have more information? a total of 10.777 responses from students, and 385 from employees were reached and the following was obtained:





Through which communication channel of the University would you like to find out about sustainability issues?

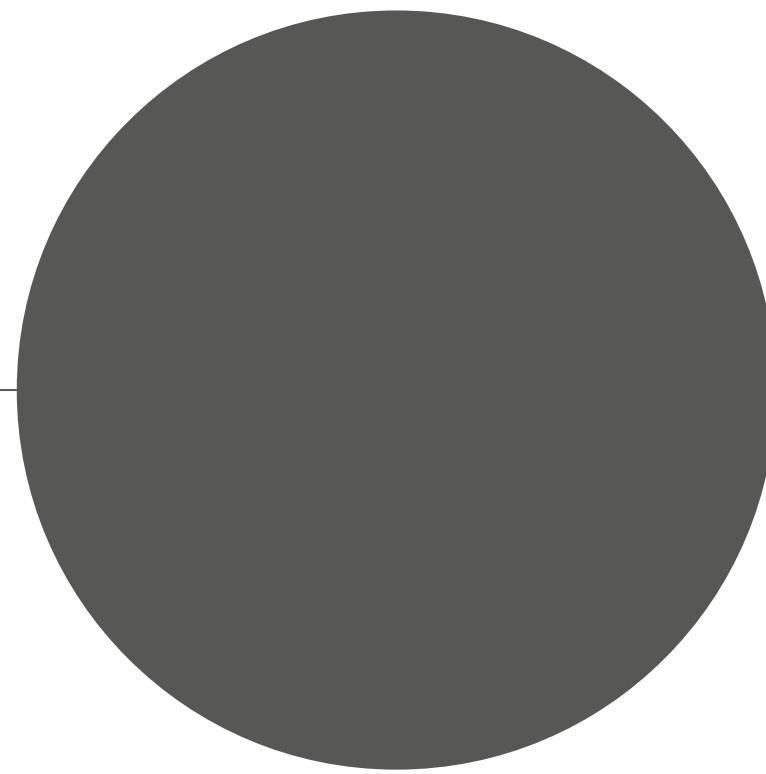




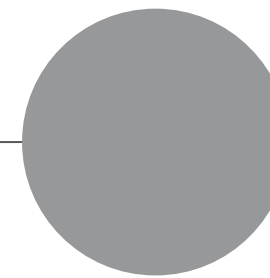
Participation by Campus



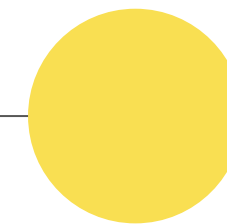
STUDENTS
Total answers:
10.521



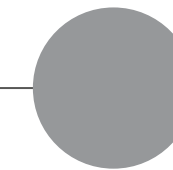
Medellín
8.381



Bucaramanga
1.035



Montería
670



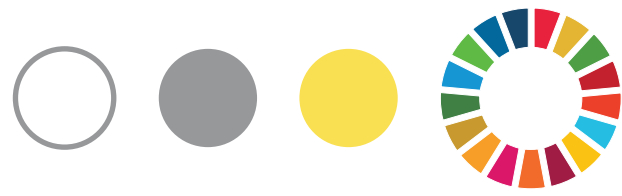
Palmira
378



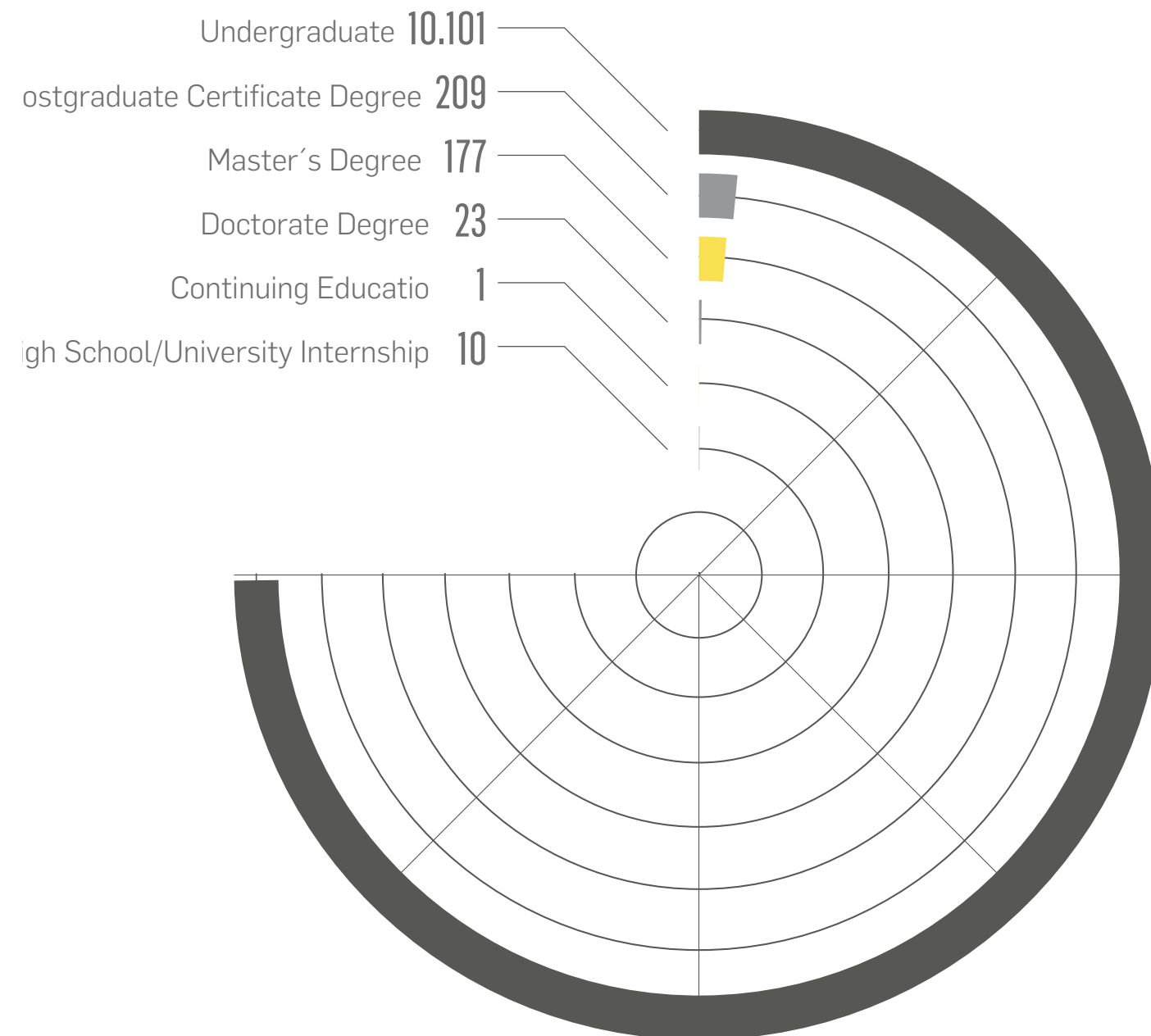
Bogotá
11

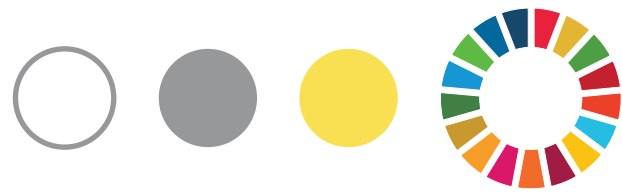


Virtual
46

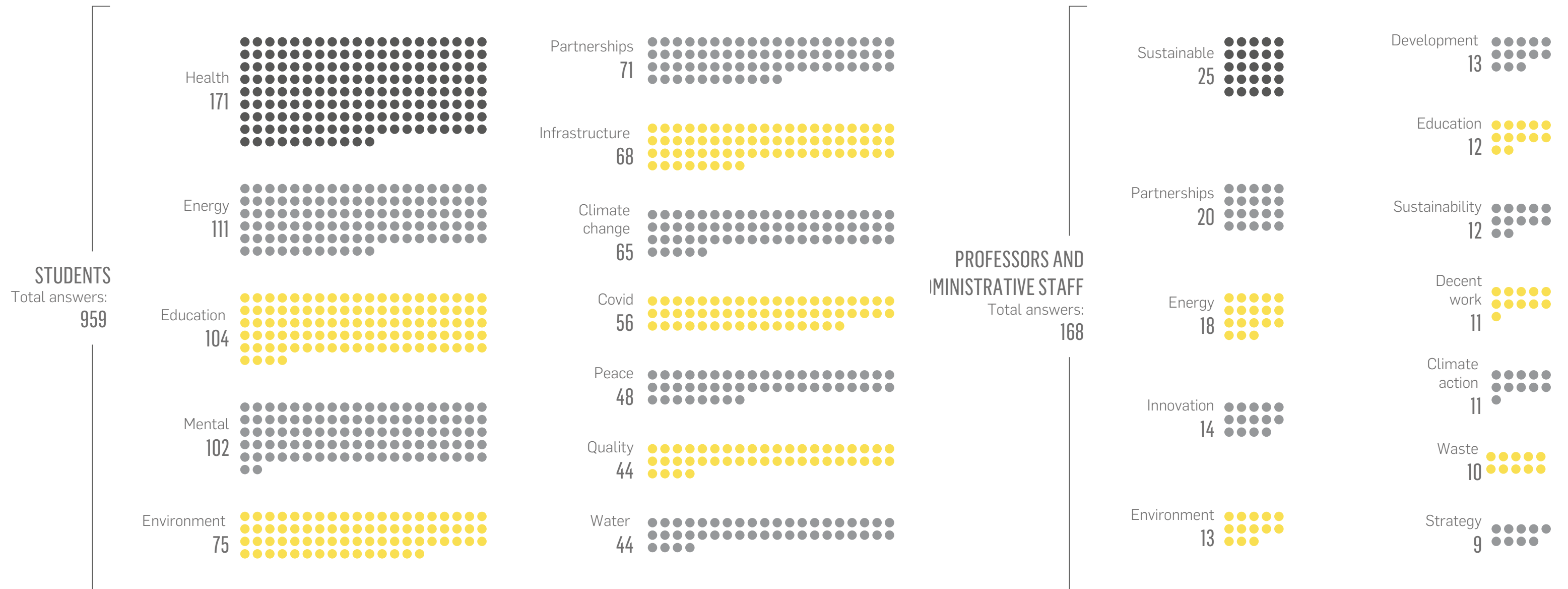


Level of education of those surveyed

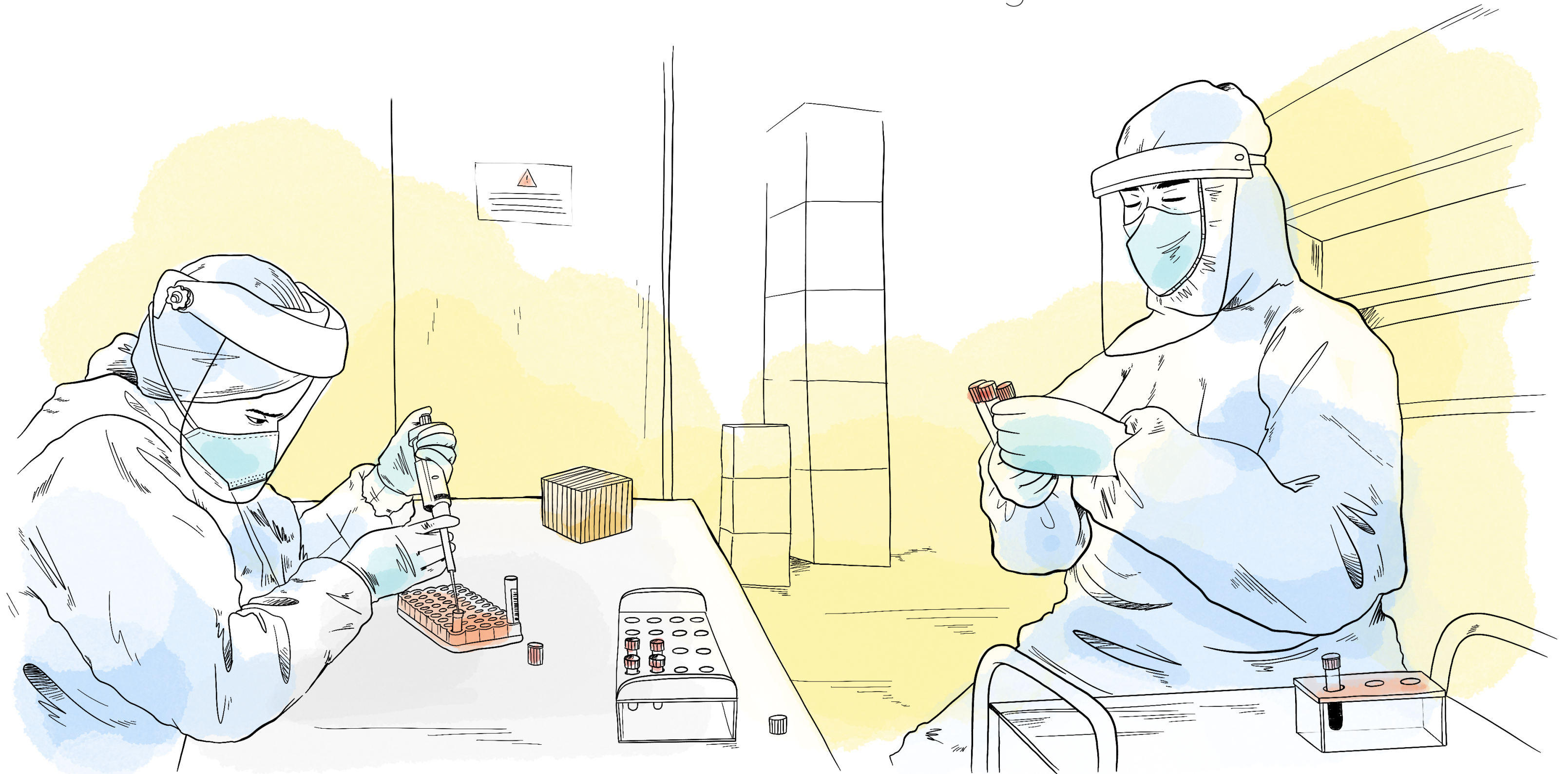




Which additional topics would you like to know about in the Multicampus Sustainability Report 2020?



SDG 3 Good Health and Well-being





\$ 39.000
 million pesos (COP) invested in
 benefits for families from our
 “UPB Contigo” program.

ICU strengthening at Clínica Universitaria Bolivariana

- Our ICU had 6 beds. Today, thanks to sponsors and institutional efforts, we have 24 beds.
- \$1.472 million pesos (COP), this expansion project was consolidated thanks to important donations and own resources.
- Telemedicine, we cared for 6.697 patients from March to December, taking advantage of the information technologies, this is equivalent to 10.3% of the total assigned consultations.

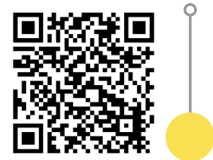
UPB 1

Mental health

The UPB Mental Health Committee was created in 2020. Main milestones:

- Committee creation (21 sessions a year), and the work plan design for the year.
- Mental health concept definition.
- Consolidation of worktables to conduct a reflective, practical, and academic analysis of the institutional mental health context for the design of strategies for prevention, mitigation, and overcoming mental health risks.
- Mental health preliminary diagnosis report to identify the main reasons of consultation by the institutional community.
- Dialogue about the quarantine situation and strengthening the articulation of the units.

- Construction of the proposal to create the Mental Health Student Table.
- Articulation of the committee with two activities from the ASCUN – Desarrollo Humano Antioquia (Colombian Association of Universities – Human Development Antioquia).
- Management as organizers of the third Mental Health Forum version: Emotional Well-being of University professors in Times of Change, in articulation with Multicampus University Well-being Center.
- General Presidency Resolution No. 073 of November 12, 2020, by which the Mental Health Committee is created, and the Mental Health Accompanying Model in the Universidad Pontificia Bolivariana is established.
- The creation of short audiovisual content about mental health moves forward with the participation of key actors of the University community.
- Mental health characterization of the student population in times of pandemic. A proposal that allows describing student experiences and academic trajectories related to confinement, social isolation, and the transition from on-site to virtuality in the Universidad Pontificia Bolivariana.
- Articulation with the UPB Families Meeting: Mental health care in the family (November 21)
- The projection for the 2021 committee’s work moves forward.



Mental health; challenges and behavior in the face of changes.



The EcoCampus UPB is a 100% smoke-free space.

UPB 2

Zero tobacco smoke; prevention and awareness activities.

The University is certified as a “Healthy University” and it is committed to provide and keep a safe and secure environment for the University community.

For these reasons, the UPB holds preventive days within the framework of the Zero Tobacco Smoke program, in which in 2020, with multicampus reach, a total of 1.038 people participated, among students, administrative staff, and professors.

- **Policy on spaces free of tobacco smoke, alcohol, and other psychoactive substances.**

The Universidad Pontificia Bolivariana declares itself as a space free of tobacco smoke and its derivatives, as well from alcoholic substances and other psychoactive substances, and it is committed to formulate and implement comprehensive health and education strategies and programs intended to contribute to the prevention and reduce the consumption of these substances.

Health and safety at work

“Health and Safety at Work helps us to improve and gain awareness to be more responsible with our safety; to learn to take care of oneself and recognize the work tools. It is also essential to take advantage of the health promotion programs.”

(Encarnación Perea Rodríguez, General Services employee).

“The Health and Safety at Work policy is vital because it makes visible the commitment of the Universidad Pontificia Bolivariana to the health, safety, and life of professors. It dignifies their labor and cares for a better performance in spaces and surroundings that contribute to it.”

(Alexander Cardona Galeano, Clothing Design teacher).



GRI 102-11

Healthy and sustainable habits precautionary approach

Focused on safety and well-being of the UPB community and with the firm intention to continue with academic activities, the University designs and implements the proper biosafety protocols to allow for an intelligent return, adhering to the norm and measures that national, departmental, and local authorities are taking.

With the purpose of having a greater coverage for the intelligent return to the campus, and generate accompaniment in activities and work at home, the 41st Human Rights Commission is comprised by the Administrative Director Claudia María Mejía Montoya, Head of the Master Development Plan Felipe Bernal Henao, Emergency and Disaster Risk Management Professional Victor Londoño Suárez, and the Health and Safety at Work Coordinator Bader Yudi-na Saleme Negrete,

The University has had a constant accompaniment towards employees and students who have required health care, with a general practitioner, pre-hospital care technologist, dentist, psychologists, and social workers through the UPB Safe Line, also, with the leadership of SST (Health and Safety at Work for its acronym in Spanish), remote training was carried out in relation to Bio-safety and COVID - 19.

- Biosafety: a way to take care of ourselves.
- Coronavirus overview and presentation of assistance protocols.
- Cleaning manual: hypochlorite disinfection, safe handling, use of hypochlorite.



UPB and the Ministry of Health and Social Protection sign a collaboration agreement.



- Use of thermometers and body temperature monitoring.
- Retraining of general services activities - SG-SST (Health and Safety at Work Management System, for its acronym in Spanish) generalities: policy, objectives, risks, accidents, waste management, COVID-19 biosafety standards.

The intelligent return to the Campus began in an alternation model since July, in which priority was given to activities such as teaching, research, and transfer in laboratories and workshops. To this effect, graphic pieces and audiovisual material have been presented to provide relevant information for a safe return to the University.

Campus Access Measures

- Prior completion of the survey for entry
- Temperature monitoring at entry with facial recognition devices
- Sanitation and disinfection
- While on campus, take measures such as: hand washing, the use of face masks all the time, keep your distance

GRI 102-11

Healthy and sustainable habits precautionary approach



* Main Campus information

GRI 403

Preventive health care management

As a measure to protect health and preserve the life of the University community, the Universidad Pontificia Bolivariana has implemented the accompaniment route for suspected or positive COVID-19 patients.

With different accompanying components, the route begins with answering a survey to determine symptoms and risk factors that allow classifying the patient in a range of colors and identifying the level of risk of contagion or presence of COVID-19.

The goal of the Health and Safety at Work Management System (SG-SST) is to promote and protect the health of workers, and the prevention of injuries and illnesses caused by working conditions; its purpose is also to protect people against risks that can have a negative impact on individual or collective health in the workplace, and to serve as an instrument to improve the quality, productivity, and efficiency of the company. As a basis for this commitment, there is a Health and Safety at Work policy reformulated on 2020 by CDG (General Governing Board for its acronym in Spanish) agreement No. 17 from 2020 from the General Governing Board and which is published in the University's webpage.

The General Governing Board by agreement No. 17 from 2020 decided to update the SG-SST policy of the Main Campus and Campuses of the Universidad Pontificia Bolivariana.

The agreement considers the commitment of the University with "the protection, prevention, and promotion of its employees, students, contractors, suppliers, and service users health by the identification and comprehensive risk management, the promotion of a culture of care, the establishment of a sustainable environment and the continuous improvement of processes."

"The UPB designed a route to establish the care protocol for COVID-19 cases of the University community, which is attended by Safety and Health at Work for employees' cases, and from the University Well-Being Center for the students' cases, in compliance with regulations".

(Morín Yorleth Valencia, Head of the University Well-Being Center from Bucaramanga Campus).





SGSST Management

- During 2020, there were 0,11 work accidents for every 100 employees, with Multicampus coverage, nine work-related illnesses, and 0 deaths from work.
- In the 2020 – GREyD (Disaster and Emergency Risk Management Multicampus System for its acronym in Spanish), training was carried out in about 24 health topics, safety, disaster assistance, trauma injury management, burns, among others, with a record of 1.786 attendees with multicampus scope.
- 281 patients were treated in the provision of the pre-hospital care service in the modality of tele-orientation and tele-support in health interactive category - reference provider Safe and Emergencies Line, Multicampus, contingency COVID -19.
- Participation in five international Risk Management events.

21.500

people were assisted between March and November 2020, through the different support and accompaniment channels to find solutions to their needs.

UPB 3

Health preventive care events

During academic and administrative activities at home, UPB strengthens the constant communication and accompaniment to its community with more than 90 events related to sustainability, environment, health, and the well-being of people.



Knowledge and perceptions about COVID-19 in Colombia. Virtual survey to general public.

Representation of workers in formal worker-company health and safety committees

COPASST (Joint Health and Safety at Work Committee for its acronym in Spanish)	35
Labor Coexistence Committee	16
Strategic Road Safety Committee	12
CEGRED (Special Committee for Emergency and Disaster Risk Management for its acronym in Spanish)	58
CUNGRED (National University Committee for Emergency and Disaster Risk Management for its acronym in Spanish)	14
SUBGRED (Subcommittee for Emergency and Disaster Risk Management for its acronym in Spanish)	59
Emergency Brigade	69

Health preventive care events



The crisis has been an opportunity to have an approach with social and environmental purpose.

UPB 4

The Sports University

Actions	Undergraduate	Postgraduate	Professors	Employees	School	Campuses	Family	TOTAL
"Muévete en casa" (Move On at home program)	331	98	122	252			100	903
Sports and physical activity talks	347		122	285			280	1034
Interfaculty games	68		1	1				70
Representative sports	402	9			496	27		934
Sports and physical activities elective classes	347							347
Promotional sport groups	33							33

Decent and quality work

UPB 5

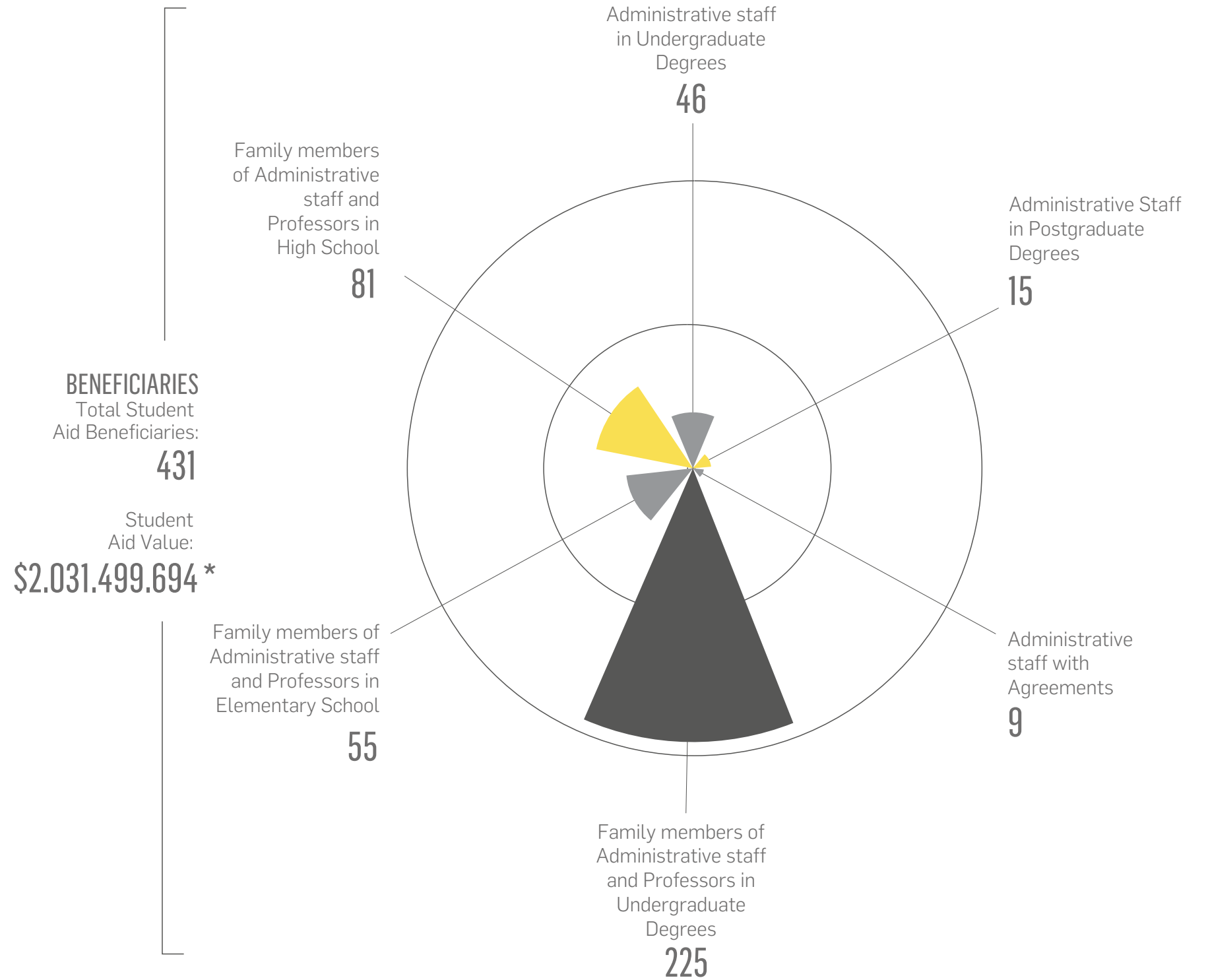
UPB's commitment for the well-being of employees

The UPB stipulates a great variety of extralegal benefits that are adjusted to needs, eventualities, and expectations of its employees, and that are also oriented to motivation and qualification.

These benefits are represented in Seniority Premium, Christmas Bonus, Adoption or Birth Aid, Death Aid, Marriage Leave, Eyeglasses Aid, and Educational UPB Health Channel Aid for its employees and their family members.



UPB health channel



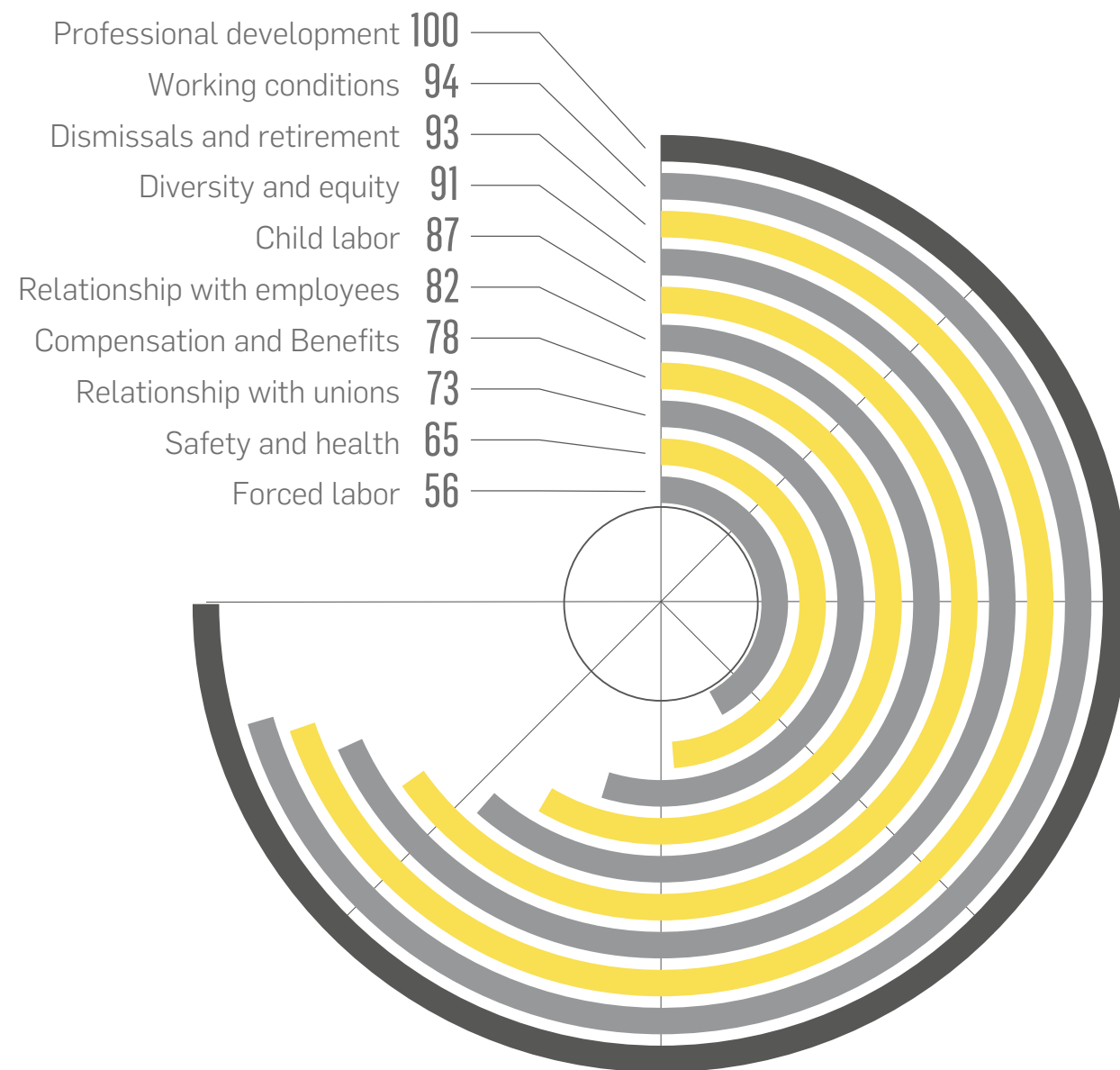
* Main Campus information

UPB's commitment for the well-being of employees

With the aim of a social sustainability oriented to the well-being of University's employees and suppliers, Human Resources Management and Sustainable UPB designed a methodology to determine a general basic diagnosis of social responsibility including health and safety, suppliers forced labor, compensation, professional development, dismissals and retirement, relationship with employees, child labor, relationship with unions, diversity and equity, and working conditions.

With these elements a plan to increase strengths and opportunities started, planning actions to improve weaknesses and threats.

SUSTAINABILITY LABOR MODULE



GRI 201-3

Benefits plan obligations

For 2020, the annual payment to pension funds by the University ascended to \$30.860.390.800 (COP), from which \$16.462.208.400 (COP) belong to the payments made to pension funds, and \$14.398.182.400 (COP) to private funds. In accordance with law provisions, the percentage of pension contributions by the University was 12%, while the contribution by employees was 4%, for a total percentage of 16%.

	Type of fund	
	Public	Private
Campus		
Main Campus	\$ 13.965.023.600 (COP)	\$ 12.590.702.100 (COP)
Bucaramanga	\$ 1.641.887.300 (COP)	\$ 883.435.400 (COP)
Montería	\$ 855.297.500 (COP)	\$ 719.616.100 (COP)
Palmira		\$ 204.428.800 (COP)
TOTAL BY TYPE OF FUND	\$ 16.462.208.400 (COP)	\$ 14.398.182.400 (COP)
TOTAL CONTRIBUTION TO PENSION	\$ 30.860.390.800 (COP)	



UPB 6

Telework / Virtuality

The premise is to care, protect, accompany, and guide employees in harmony to pursue the University's sustainability, as well as to redefining management priorities and focusing them on daily management actions, improving the allocation of human, economic, and technological resources through innovative management and of greater connection with the institutional strategy, with the firm purpose to guarantee the permanent monitoring of the legal provisions allowed for Higher Education Institutions during the contingency, as well as the taken measures by different organization to have a reading of the environment and act in coherence.

Contingency plan stages to establish the administrative activities protocol

1

Contingency plan Protocol for onsite administrative activities COVID-19 contingency.

2

Creation of a survey directed to the heads of Units, to identify the employees who, by their profile (administrative), require on site, alternation, and work at home.

3

Analysis of employees with comorbidities.

4

Survey directed to the heads of academic-administrative units, to validate the physical and emotional conditions of employees.

5

Profiles and responsibilities analysis and updating of information and figures according with the requirements of the immediate heads and / or the needs of the academic-administrative units.



Students and employee's economic savings

For the Main Campus, economic savings and avoided emissions thanks to the implementation of virtual strategies from both, teleworking and education through virtual platforms, were calculated from the externalities program and, for this, the information used was referred by the origin-destination surveys implemented within the framework of the UPB Sustainable Corporate Mobility Plan:

- Economic savings on student travel (fuel and parking payment for cars and motorcycles, and payment of Metro and bus tickets): \$6.306.167.305 (COP).
- Economic savings on employee's travel (fuel and parking payment for cars and motorcycles, and payment of Metro and bus tickets): \$1.950.722.593 (COP).

Employees and students saved a total of
\$8.256.889.898 (COP)
thanks to the virtuality processes implemented within
the environmental emergency framework.

Travel generated and avoided emissions:

Thanks to the work from home and virtual education processes implemented, in 2020 about **9.994 tCO₂eq** Emissions associated with trips to the facilities of the Main Campus, were avoided.

Emission description	Students	Administrative Staff	Total	Specification
January – March 2020 Emissions	2.628,8 t CO ₂ e	595,9 t CO ₂ e	3.224,7 t CO ₂ e	Generated
March – December 2020 Emissions	7.578,2 t CO ₂ e	2.416,1 t CO ₂ e	9.994,3 t CO ₂ e	Avoided

Equity, diversity, and inclusion

GRI 401-1

The policies of decent work that UPB is advancing on.

The UPB bases its personnel processes on respecting Human Rights and the effective fulfillment of the Political Constitution of Colombia, in which dignified treatment and the promotion of optimal working conditions for the execution of functions prevails. This way, and with encouragement to maintain and strengthen the work well-being, the Human Resources policy and the Hiring Manual are established as a guarantee of decent work and labor well-being.



GRI 405-2 GRI 406-1 PG 6

Nondiscrimination (inclusion) policies carried out by UPB

The Universidad Pontificia Bolivariana guarantees that there is no distinction, exclusion, or preference that could lead to rejection or inequality in employment or occupation opportunities no matter race, color, sex, religion, and civic, social, or political characteristics.

Hiring processes in UPB and job profiles are aligned with the recognition of skills, abilities, and appropriate knowledge for each function, what makes equal processes between men and women, in other words, this purpose is reflected in the internal promotion of employees in which gender is not a limitation for professional growth within the University.



Joint work with indigenous communities from Chocó for preventive control of COVID -19

Employee promotions 2020		
DESCRIPTION	NUMBER	PERCENTAGE
TOTAL	10	
Feminine	5	50%
Masculine	5	50%
TOTAL		100%

UPB 7

Ethno-education program

This program arises thanks to the agreement between Universidad Pontificia Bolivariana and the "Instituto Misionero de Antropología" – IMA (Missionary Institute of Anthropology) and it is based on an interdisciplinary perspective in which the following are interrelated:

- Linguistics
- Anthropology
- Pedagogy
- Research

To produce knowledge that will allow students to perform in different contexts in which ancestral colonies are strong such as indigenous, afro-descendant, and peasant territories.

- 1.097 enrolled in 2020.
- 40 indigenous groups are represented within students.
- Colombian regions to which the UPB currently has reach with its programs, the agreement has offices in Toribío (Cauca), Puerto Asís (Putumayo), Valle del Sibundoy (Putumayo) and Medellín, attended by representatives of more than 48 ethnicities.

Among the programs offered are the Bachelor of Ethno-education and the undergraduate degrees in Economics and Social Work. Likewise, the Postgraduate Certification Degree in Human Talent Management, the Master’s Degree in Business Administration, and the Master’s Degree in Education. Also, we have been able to reach the departments of Vaupés, Amazonas, and Vichada.

Education and Training for employment

GRI 404

The results of comprehensive employee training

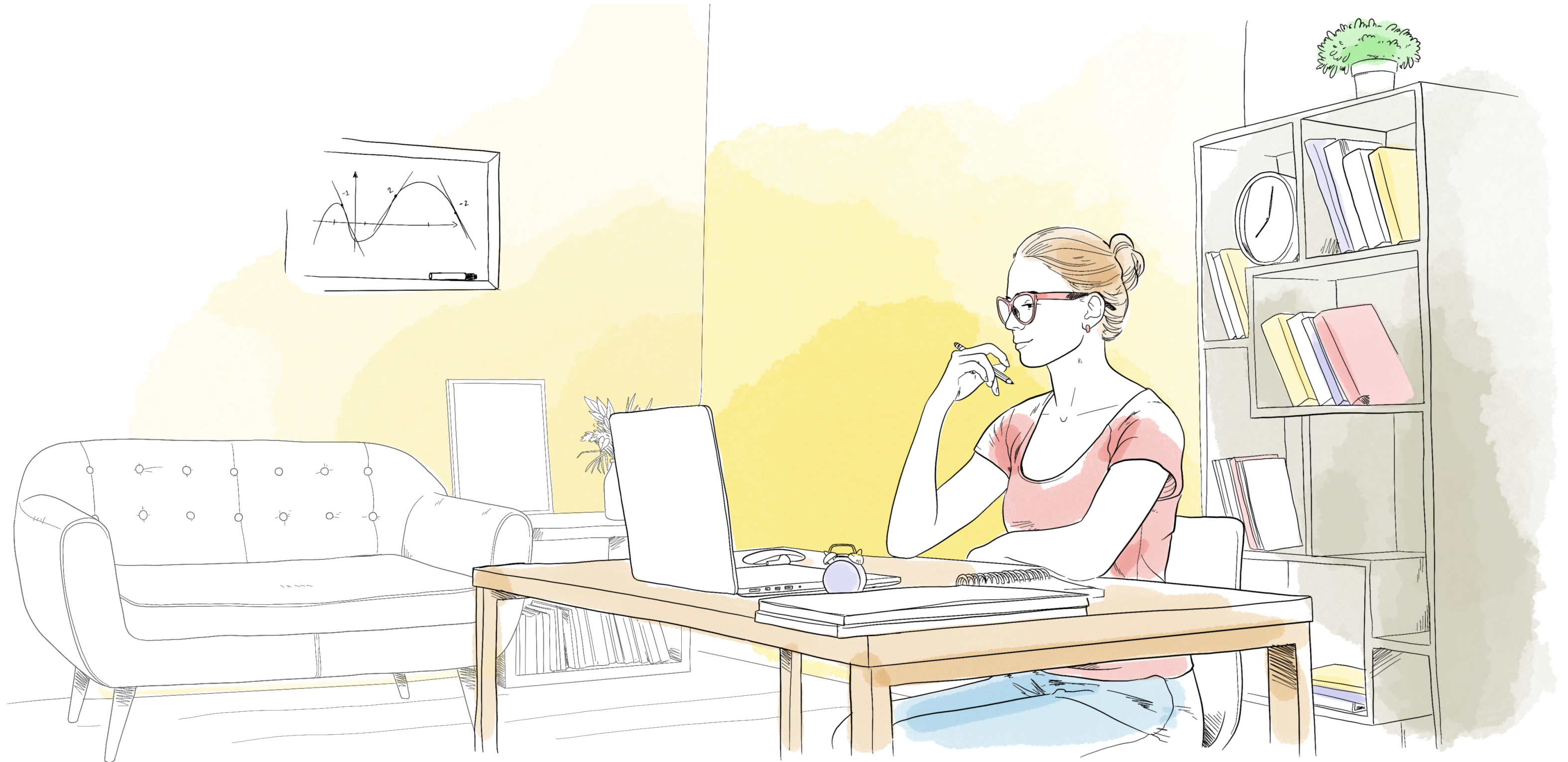
The human talent policy is oriented to the promotion, transformation, and social and human development of its employees, within the conception of Christian Humanism as the support for innovation and institutional strengthening. To this effect, it promotes a comprehensive Human Talent Management System with a comprehensive model of skills and competencies, proposes an equality culture and the improvement of the quality of life of employees and their families, in accordance with the institutional Mission and Vision.

In the comprehensive moles of skills and competencies, a total of 8.057 comprehensive education certifications to UPB employees and administrative staff were issued.

Integrating nucleus	Participants
Multicampus Administrative Staff	943
Culture and spirituality for professors	49
Teacher's qualification Montería	590
Teacher's qualification Bucaramanga	538
Teacher's qualification Palmira	54
Teaching, learning, and evaluation	5662
Research, transfer, and innovation	33
Foreign language professors	188



SGD 4 Quality Education



GRI 102-3 GRI 102-4

Operations and Campus

The UPB is also present in Norte de Santander, Caldas, Risaralda, Quindío, Cauca, Putumayo, Amazonas, Vaupés, Guainía, and Vichada with undergraduate, post-graduate, Ethno-education, and Continuing Education programs thanks to the agreements we have with other institutions.



- 1 MEDELLÍN:**

 - Main Campus:** Circular 1ª N° 70-01
 - UPB's School:** Circular 1ª N° 70-01
 - Bioengineering (Building 54):** Circular 1ª Avenida N° 73-86
 - Reconciliation Center (Building 52):** Circular 1ª Avenida N° 73-66
 - Family Center (Building 50):** Avenida 73 Circular N° 2-46
 - GIA (Environmental Research Group for its acronym in Spanish) (Building 55):** Circular 1ª Transversal 74-50
 - GINUMA (New Materials Research Group for its acronym in Spanish) (Building 53):** Circular 1ª Avenida N° 73-76
 - Energy and Thermodynamics Institute (Building 51):** Circular 1ª Avenida N° 73-30
 - Energy and Thermodynamics Institute (Building 51):** Circular 1ª Avenida N° 73-34
 - Robledo:** Calle 78b N° 72 – 157
 - Poblado:** Carrera 43C N° 5 – 173
 - Llano Grande:** km 8.5, vía Llano grande – Rionegro, Offices 239
 - Marinilla School:** Calle 31 N° 25 – 02
- 2 BUCARAMANGA:**

 - Bucaramanga Campus:** Kilómetro 7 vía Piedecuesta
 - Social Projection Center Bucaramanga:** Carrera 8 N° 6-37
 - Life and Family Institute Bucaramanga:** Carrera 19 N° 37-67
- 3 MONTERÍA:**

 - Montería Campus:** Carrera 6 N° 97 a 99
 - Montería Transmitters:** Calle 1 N° 2-4 (Caño viejo)
 - Downtown Campus Montería:** Calle 26 N° 5-12 (B-Chuchurubi)
 - El Cortijo Farm Montería:** Calle 28 N° 40-95 (U. Bonanza)
- 4 PALMIRA:**

 - Palmira Campus:** Calle 44 SN 120 Sector lógico Seminario Vía tienda Nueva
- 5 BOGOTÁ:**

 - Carrera 7 N° 33 - 91**

GRI 102-2 Programs offered

"I decided to study at UPB because of its complete programs and academic quality, also because it is important to constantly search for learning and nourish the acquired knowledge all the time."

(Alfredo Sánchez, Continuing Education student).

LEVEL OF EDUCATION	Programs offered														
	MEDELLÍN			BUCARAMANGA			MONTERÍA			PALMIRA			TOTAL MULTICAMPUS		
	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020	2018	2019	2020
Doctorate Degrees	10	12	11	0	0	0	0	0	0	0	0	0	10	12	11
Medical-Surgical Specialty	25	26	27	0	0	0	0	0	0	0	0	0	25	26	27
University Postgraduate Certification Degree	77	73	73	15	15	16	11	13	15	3	3	3	106	104	107
Master's Degrees	58	62	66	5	7	9	0	0	0	0	0	0	63	69	75
University	46	46	46	14	14	14	13	12	12	2	2	2	75	74	74
Continuing Education (certification programs, courses, seminars)	1123	747	816	48	51	65	73	64	20	12	25	20	1256	887	921
Tailor-made programs with companies, corporations, public entities, among others.	416	393	140	39	41	29	6	9	2	12	11	25	473	454	196



4 QUALITY EDUCATION



UPB Brands



"Al compás de la bitácora": scientific outreach guide for boys and girls.

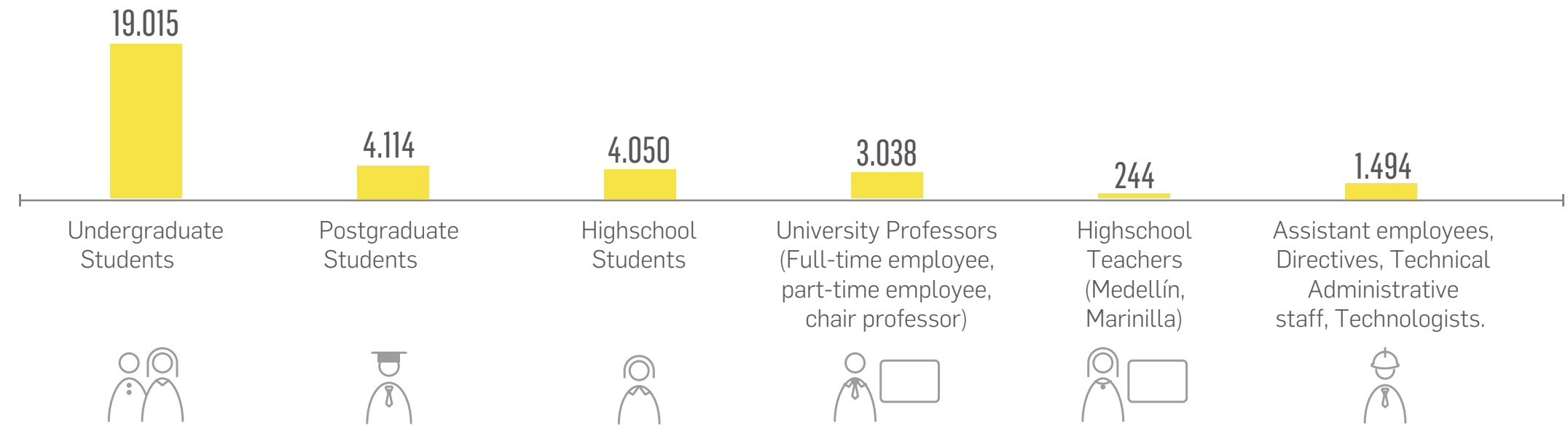


UPB



Population

Total 2020 UPB Population
31.958



3.077
trained professors with assigned
courses in online learning platforms,
out of 3.282 professors.

Total UPB Population 2020

	MEDELLÍN	BUCARAMANGA	MONTERÍA	PALMIRA	TOTAL
Undergraduate Students	11.440	3.928	2.809	841	19.018
Postgraduate Students	2.752	825	418	119	4.114
Highschool Students	4.050	-	-	-	4.050
University Professors (Full-time employee, part-time employee, chair professor)	2.135	411	361	131	3.038
Highschool Teachers (Medellín, Marinilla)	244	-	-	-	244
Assistant employees, Directives, Technical Administrative staff, Technologists.	874	258	218	144	1.494
Total UPB Population 2020	21.495	5.422	3.806	1.235	31.958



UPB 8

UPB Rankings



▶ **QS World University Rankings-2021**

Ranks in the top 700 of the best universities in the world and first private University in Antioquia.



▶ **QS Latin American University Rankings – 2021**

Among the best 100 Latin American Universities. And top 10 of the best Colombian Institutions.



▶ **THE- World University Rankings 2021**

Ranks in the world's top best universities, and it is the only private University in Antioquia to appear in this international ranking.



▶ **THE- World University Rankings 2021 by subject: engineering**

Ranks in the top 5 best universities in Colombia, and first private University in Antioquia in engineering.



▶ **THE- University Impact Rankings 2020 – ODS 13 Climate action**

Top 10 of the best universities in the world, and first institution in Latin American and Colombia, for its actions to combat climate change.

RANKING WEB OF UNIVERSITIES

▶ **QS World University Rankings-2021**

Ranks in the top 700 of the best universities in the world and first private University in Antioquia.



▶ **Ranking U-Sapiens 2020-2**

Ranked in the top 10 between Colombian Universities, and first private University in Antioquia in research and quality of its postgraduate degrees.



▶ **UI GreenMetric**

The UPB is among the best three universities in Medellín committed to sustainability in education and research. The Bucaramanga and Palmira campuses are in the first and second place respectively in their regions. For 2020, the Montería Campus was incorporated.

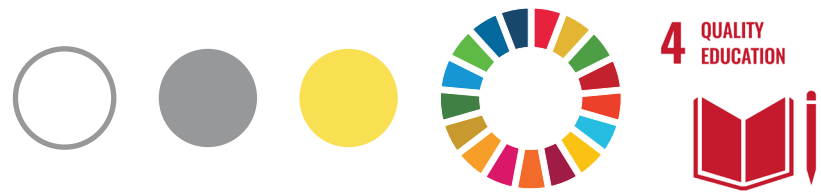


More information

I am very happy about how much the University has grown and for it to be one of the best in the country. Every time I pass by when I go to Bucaramanga, I can only feel emotion and pride because that's were all began for me.

The UPB gave me excellent foundations to be more than a Television Producer, it educated me to be a good person, with the ability and desire to give everything to the world, additionally, it also fills me with pride that not only it is my alma mater, but also my sister's, who graduated from the Faculty of Mass Communication as well."

(Jesús Arley López Colombia, graduate).



RANKING	POSITION WORLDWIDE	POSITION IN LATIN AMERICA	POSITION IN COLOMBIA
QS World University Rankings – 2021	651-700	34	7
QS Latin American University Rankings – 2021	N/A	64	10
THE- World University Rankings 2021	1001+	N/A	8
THE- World University Rankings 2021 by subject: engineering	801-1000	N/A	3
THE- University Impact Rankings 2020 – ODS 13 Climate action	10	1	1
Ranking Web of universities Julio 2020	1950	96	7
Ranking U-Sapiens 2020-2	N/A	N/A	8
UI GreenMetric	167	20	14

2.300
 2.300 courses in our online learning platforms
 with Multicampus coverage.

UPB 9

Education for sustainable development

The University has Multicampus High Quality Institutional Accreditation, and more than 70 undergraduate and post-graduate programs with High Quality Accreditation, likewise, it has consolidated in every level of its academic offer, courses aimed to the generation and strengthening of knowledge related to all dimensions of sustainability.

“I see myself as a professional in Aeronautical Engineering, fulfilling the dreams I have set for myself, and also, demonstrating to my family what I am able to do because they have supported me from Perú.”

(José Fernando Ríos, Aeronautical Engineering student)



Researchers study COVID 19 to find therapeutic options.

ENVIRONMENTAL EDUCATION PROCESSES - CURRICULAR CONTENTS

Primary and secondary education	39
Undergraduate	31
Postgraduate	65
Continuing Education	80

Campus B-Learning. We updated our platforms and consolidated them in a digital learning modern environment.

From primary education to postgraduate degrees

UPB Highschool Eco-garden



This project is led by the Natural Sciences area and with the participation of all the grades of the Medellín Campus, in which different academic areas are involved in agricultural production. Firstly, the garden was created as a strategy to mobilize the academic community to achieve good practices and significant experiences with environmental quality.

Master's Degree in Sustainability



The Master's Degree in Sustainability of the UPB, involves topics related to the different socio-ecological systems to understand the interaction between society and environment, as well as to identify possible challenges, risks, and impacts. Innovation and adaptation of technology to the sustainable development demands, the management and administration of natural resources for their efficiency.

Pollution and waste management are subjects that point to decision-making according to the context in which they arise.

Virtual Campus 2020

UPB 10

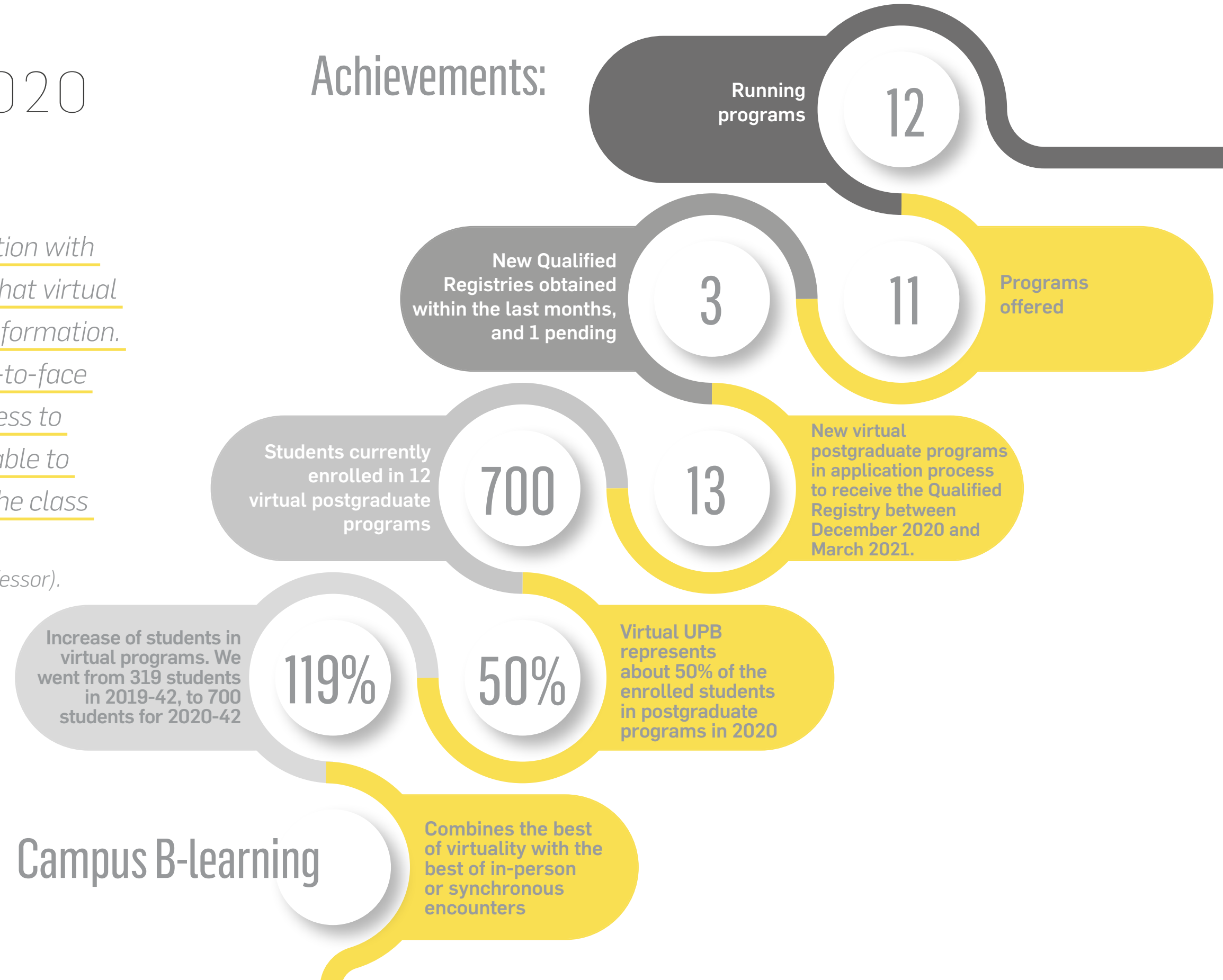
Virtual UPB

"The benefits of combining in-person education with virtual environments are those that define that virtual environments allow permanent access to information. Additionally, the student benefits from face-to-face contact with the professor, also to have access to additional material with which they will be able to complement and be more informed about the class contents."

(Néstor Raúl Londoño Sepúlveda, Faculty of Law professor).

1.852
students graduated through virtual graduation ceremonies in the company of their families.

Achievements:



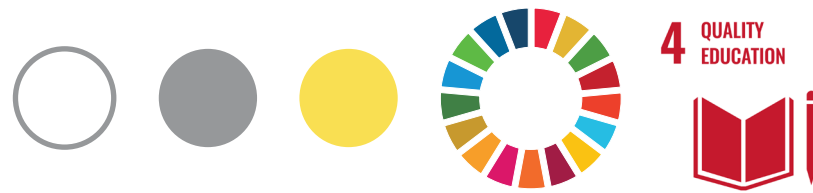
Language Center in virtuality

UPB 11

Language Center

"When I started in UPB Montería, my level of English was very low, thanks to the 8 levels I took I was able to improve it. The levels are mandatory and aim to perfect this second language that has become a necessity in meeting the increasing demands of foreign languages. I took advantage of all the tools that the Language Center offers, and it has been very useful for my personal and professional life."
 (Luisa Fariño Espitia, Graduated from Business Administration).





UPB 12

Research and Transfer

- Software registered in 2020: 16, between 2010 and 2020 about 310 software have been registered.
- Internal and external registered research projects in 2020: 53 projects began in 2020, and 298 remained active during 2020.
- Income obtained from executed or closed projects in 2020: \$6.203.867.746 (COP) with cut-off date in October 2020.
- UPB research seedbeds: 59 Multicampus seedbeds.
- Classified journals:
 - » Publindex Category C: 2
 - » Scientific without indexing in Publindex: 5
 - » Outreach journals: 3
- Research groups classified with Colciencias (Administrative Department of Science, Technology, and Innovation) according to 2020 data: 56 in Medellín Campus, 23 in Bucaramanga, 8 in Montería, and 3 more in Palmira. 90 research groups in total.



Development of a Biotechnology training route to close gaps in Higher Education in Antioquia. The UPB commits to close gaps with virtual education in Biotechnology.

“Seedbeds complement what you learn in a classroom. They provide prior knowledge and allow access to better opportunities.”

(Juan Pablo Ramírez, Social Communication and Journalism student).

11 of the research groups are classified in A1 category, and 21 in A category, highest categories in the country according to Minciencias (Abbreviation in Spanish for Ministry of Science Technology and Innovation)

Granted patents of invention in 2020: 1

Resources invested in research projects (external and internal)	
Costs and expenses	\$9.516.794.856,10
Investment (equipment)	\$238.547.511,47
Scientific Colombia	\$2.357.442.767,29
TOTAL	\$12.112.785.134,86

Number of researchers

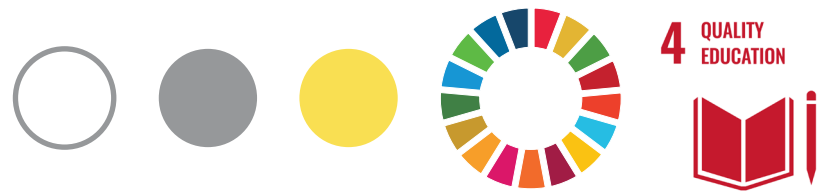
- Research professors: 365 research professors from a total of 695 full time professors.
- Research students: 114 students in ongoing research projects.

Publications in Scopus

- Scopus: 228 articles and 51 lecture papers.

Thesis supervision 2020

- 237 registered products associated with final degree project or thesis supervision (undergraduate, masters, doctorate)

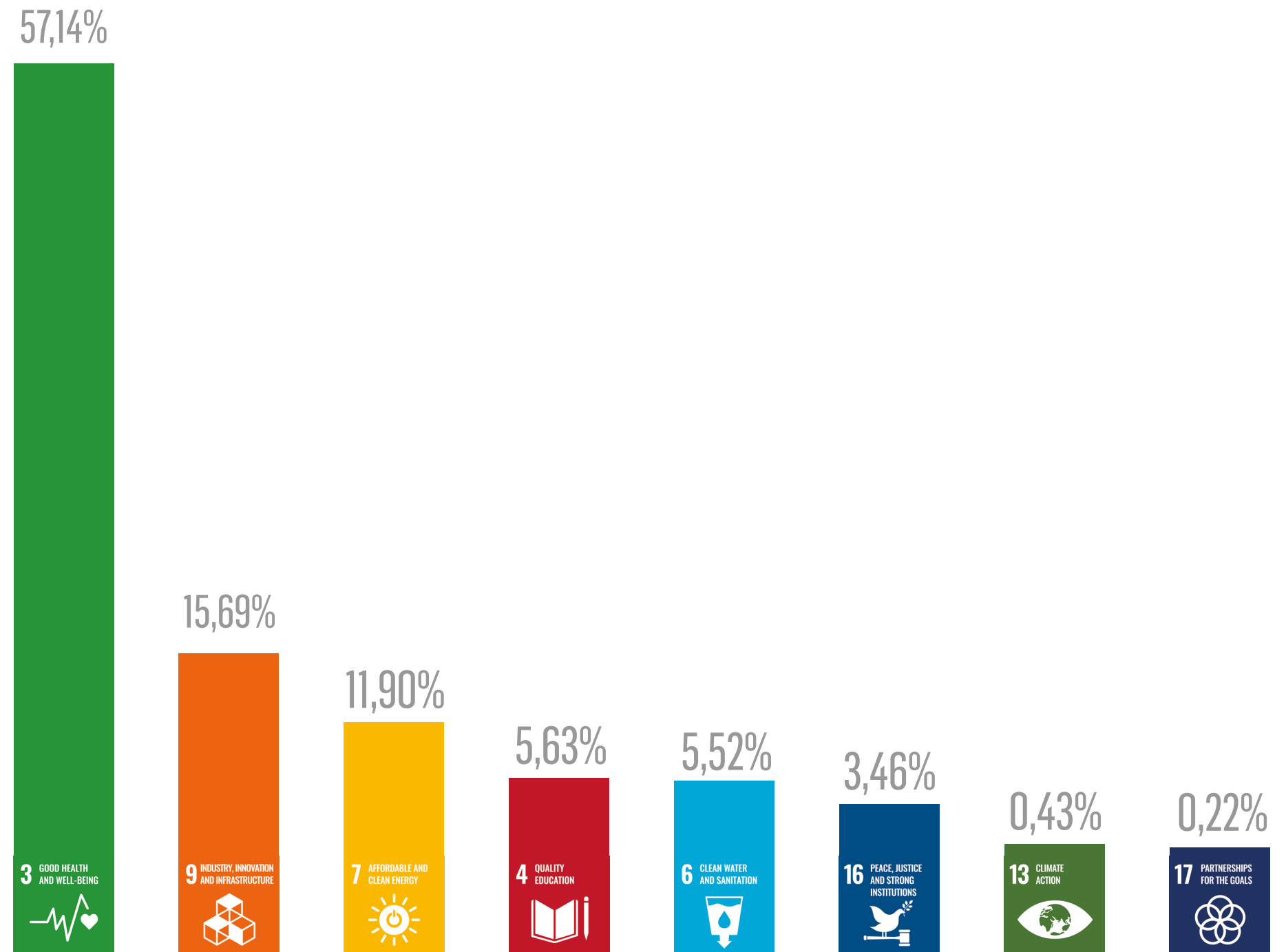


UPB Publications contribution to the development of SDGs

With a purpose to inquire about the contribution of publications done by UPB researchers to the Sustainability Development Goals, a review on articles published between 2016 and 2020 was conducted, these were classified according to the SDG to which they will contribute more directly¹.

For the SDGs prioritized by the University, it was found that there is a greater contribution of scientific production towards SDG 3 “Good Health and Well-being”, because the UPB has the Clínica Universitaria Bolivariana and a great strength from the School of Health Sciences as far as research in aspects such as the transversal axis of research in the curriculum, the increase in high quality research groups, research education, and the achievements of the Health Focus Area. Likewise, the contributions to SDG 9 “Industry, Innovation and Infrastructure” and SDG 7 “Affordable and Clean Energy” are highlighted, they are in coherence with the great efforts that the institution has made from its Schools of Engineering, and Architecture and Design in search of a more innovative and environmentally friendly environment.

¹ Source: Scopus and Qlik Sense. Cut-off date: January 28, 2021. Scope: Scientific production (articles, book chapters, lectures, reviews) indexed in Scopus.



UPB 13

Community’s easy access to education provided by UPB

Faced to the current public health crisis and the impact to society derived by it, the UPB has focused on three work horizons and considers life dimensions: i) Curriculum development remotely, ii) Accompaniment to families and students, iii) Physical, mental, and spiritual well-being accompaniment to the University community.

Four years ago, the UPB established its educational offer through the Virtual UPB Program to collect a research tradition in virtual learning environments, whose efforts have been focused on qualifying professors in the use and management of new teaching technologies, and especially, in online teaching and learning platforms investment.

This way, the UPB continues to be committed to grasp the new meanings that life needs from now on, and in consequence, it is committed to staging programs that contribute to the comprehensive development of the internal and external University community for social and human transformation, as a solidarity projection scenario in which inclusive and sustainable options are defined for a quality education.

“I like the human focus that the University has, you can approach professors, they are confidants and always have a good answer”.

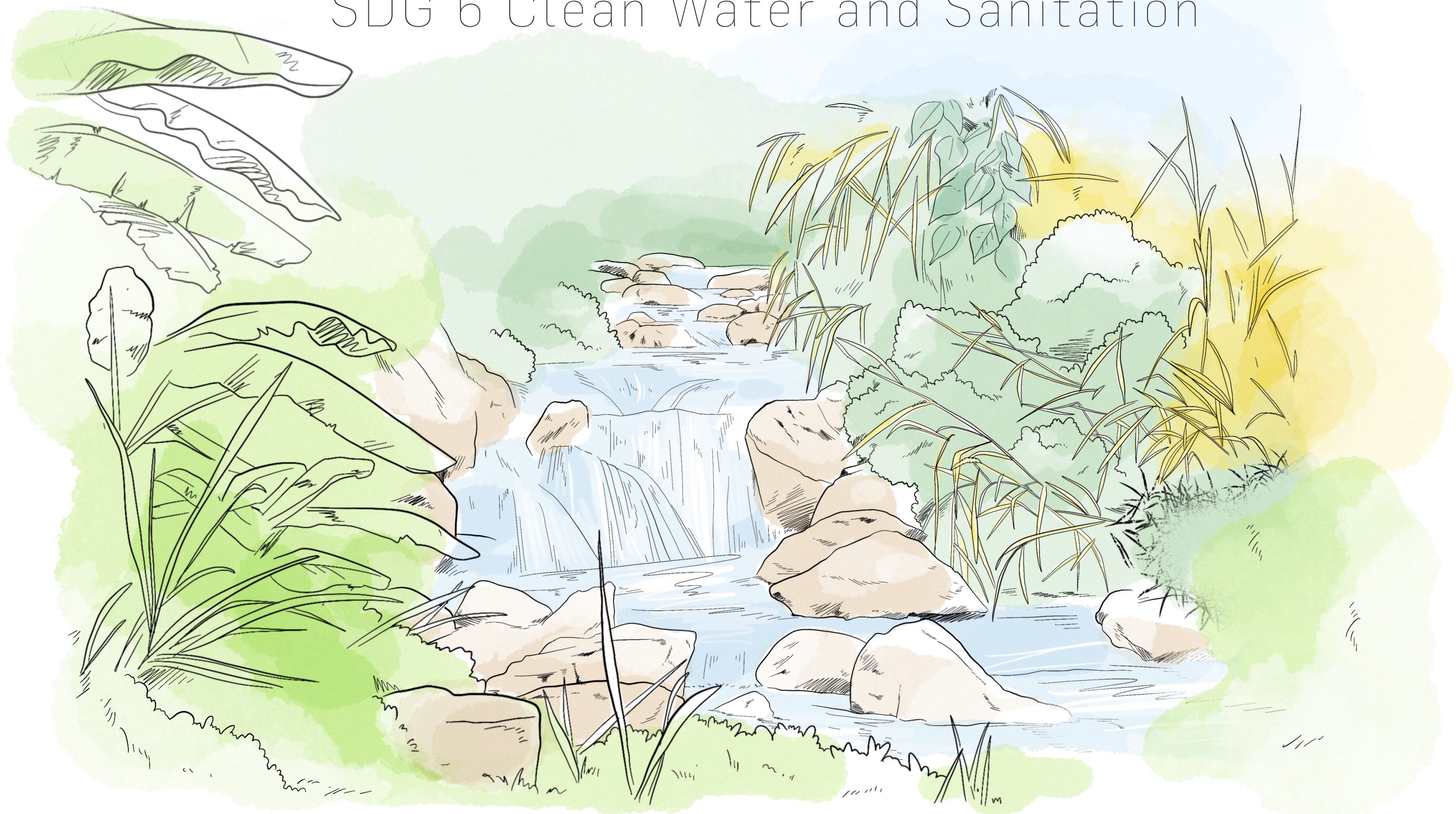
(Laura Benjumea, Business Administration student).



Campus	Benefits programs	Beneficiaries
Bucaramanga	3	208
Medellín	16	94
Montería	7	326
Palmira	3	365

The UPB grants scholarships for doctorates, or research master’s degrees, of the Advanced Education Department to professionals that develop research products and who are enrolled, as students in training, with projects or programs that manage to deploy abilities, and develop abilities and actions for the University and local territories. In 2020, 37 doctorate scholarships and 11 master’s scholarships in research modality were granted, with 100% coverage assumed by the University and Minciencias.

SDG 6 Clean Water and Sanitation





COVID 19 Pandemic: as potential for change in the water and sanitation sector.

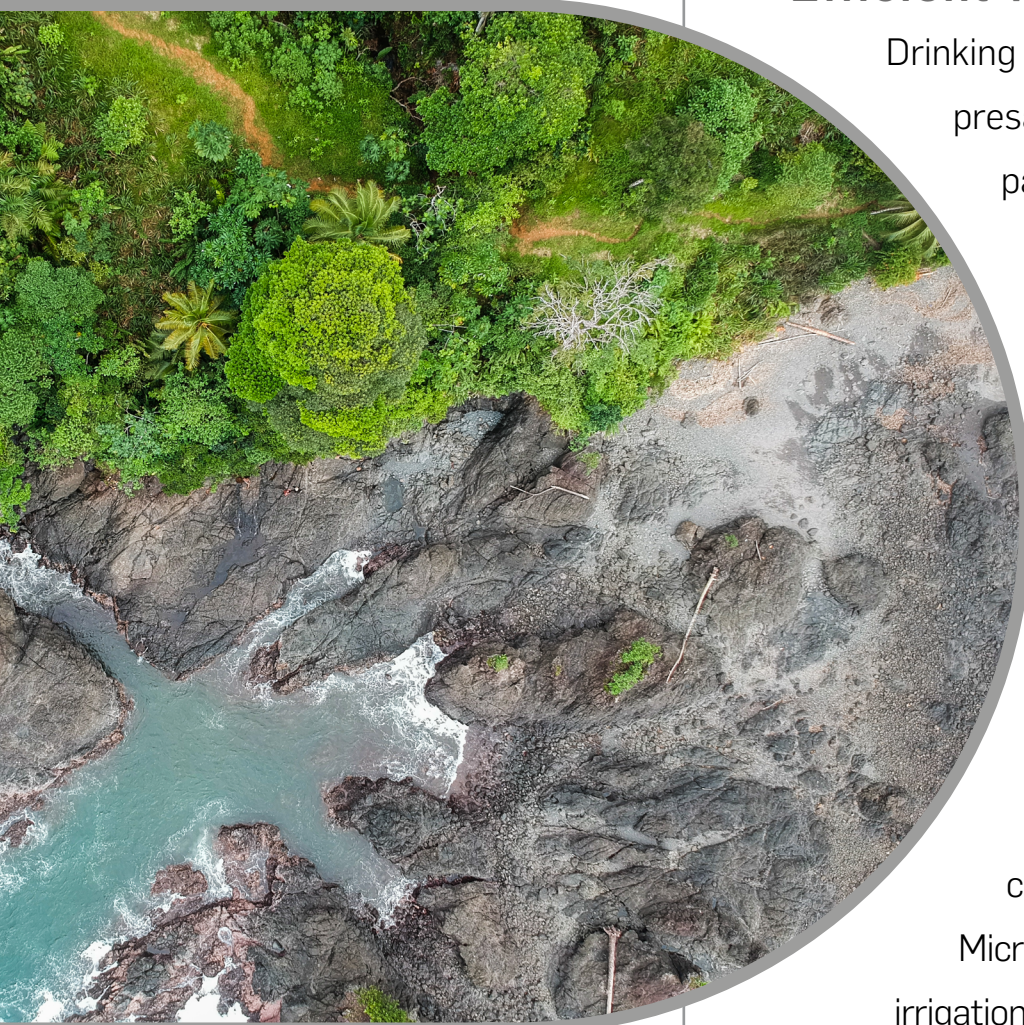
GRI 303-1 303-3

Efficient water management at the University

Drinking water that arrives to the Main Campus is provided by the “Empresas Públicas de Medellín” - EPM (Medellín Public Utilities Company), and it is used in all inherent activities of the University field, either in administrative or domestic areas (offices, bathrooms, laboratories washes, sinks, and restaurants).

Additionally, part of the rainwater that is collected in a storage tank near the parking lot is used on campus for irrigation and in sanitary units in nearby buildings.

Likewise, Montería Campus drinking water is provided by the “Empresas Públicas Municipales” (Veolia) (Municipal Public Utilities Company). On the other hand, in Bucaramanga Campus, water comes from an aqueduct; there is a local water license that comes from “La Guyana Creek” from the municipality of Floridablanca, Santander. This belongs to the Lato River Micro-basin, Oro River Sub-basin, Lebrija River Basin, and it is used for irrigation and other gardening activities. The approved flow is of 1.75 l/s.



Tribugá expedition, a documentary supported by UPB.

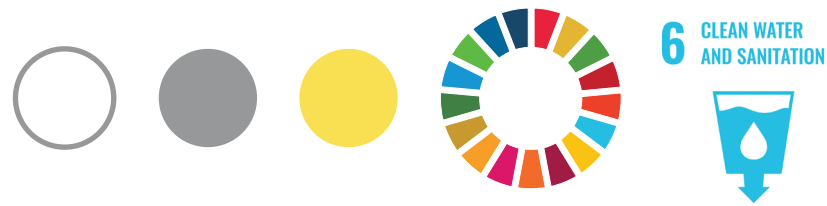
GRI 102-11

Preventive focus. Comprehensive water management

From Sustainable UPB, there is a series of actions and protocols intended to make a rational and efficient use of water during the return to Campus in the context of the health emergency. Due to the contingency, the cleaning protocols increased and, therefore, the use of the resource, a situation for which efforts were doubled to raise awareness, among internal collaborators, on caring and saving water resources.

The actions that Sustainable UPB promotes on the rational use of water are mainly communication: various campaigns and signage on the Campus infrastructure. Furthermore, a series of technological actions are taken under consideration, such as water meters through which monitoring, and follow-up is done from the strategy and the Environmental Research Group (GIA).

Hand washing has been a fundamental issue for the University Laboratories alternation return and portable stations have been installed with this purpose. There are dedicated spaces for sanitization at the University and, to prevent excesses, Sustainable UPB has provided signage that invites to a responsible use.



UPB 14
Water Footprint

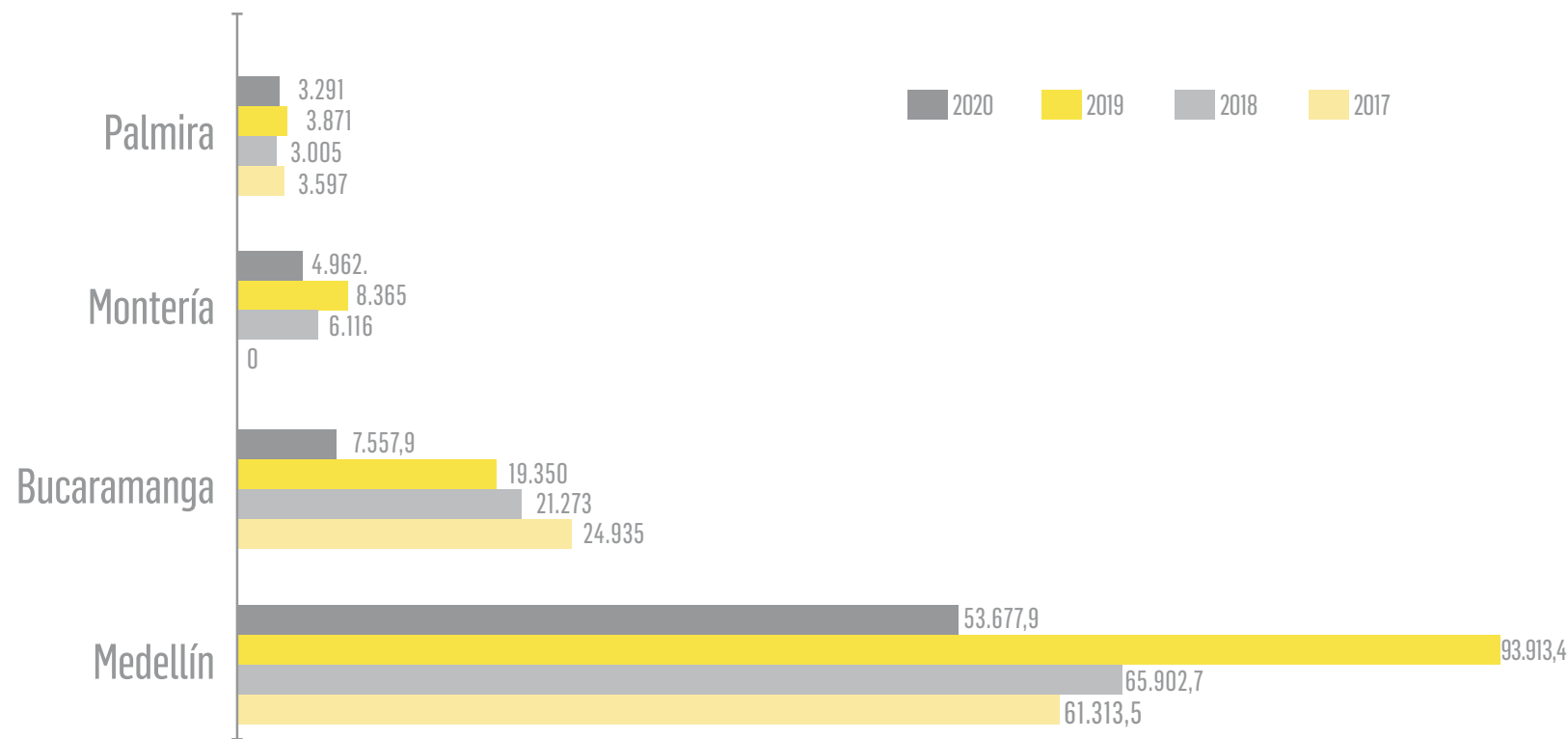


Technology to discover and protect the Underwater Cultural Heritage -UCH-.

The Universidad Pontificia Bolivariana has established sustainability and environmental policies in which the sustainability culture consolidation is defined through programs and projects to reduce and mitigate the environmental impact produced in Campuses. The determination of the Campus Water Footprint has continued and, in 2020, the accreditation process of the applied methodology began with the support of ICONTEC.

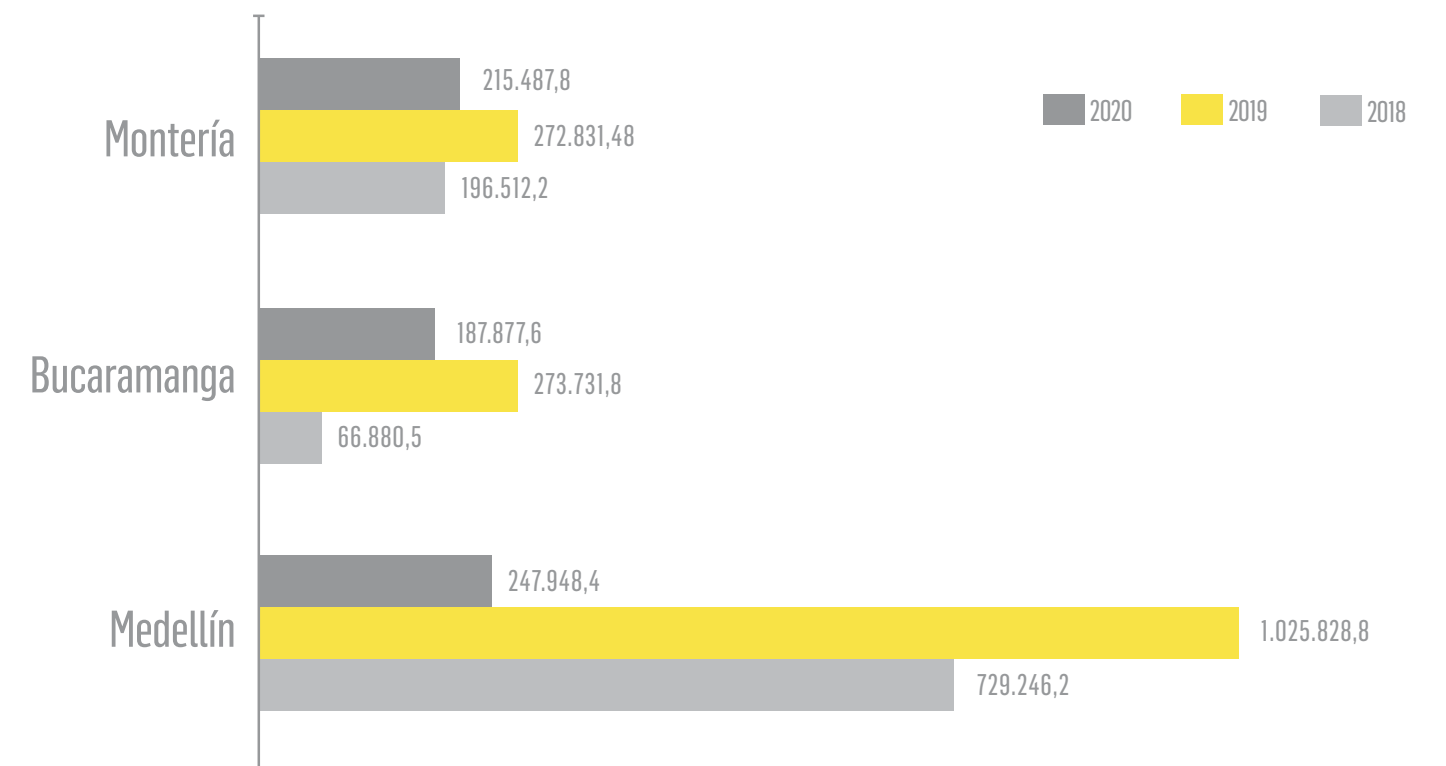
On the other hand, the monitoring of meters in monthly consumption of Campuses was continued so that possible losses or leaks of water could be verified. Furthermore, as a contingency plan facing the COVID-19 pandemic, additional sinks were built to help in the implementation of cleaning units close to existing water supply networks and drains putting the health of the community first.

Multicampus UPB water consumption evolution



Since 2020, Robledo, Marinilla, Poblado, and Llano Grande began to be considered for the Medellín Campus.

Multicampus UPB water footprint evolution



The values obtained during 2020 are atypical and are not comparable with other periods due to the exceptional situation caused by the COVID-19 pandemic.

GRI 306-1 GRI 306-5
Discharges

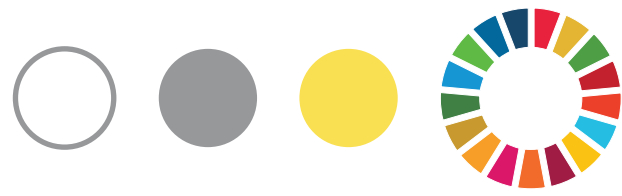
In the Main Campus, wastewater produced in buildings and food courts are delivered to the municipal sewage system. The ARnD (Non-domestic Wastewater for its acronym in Spanish) is generated during laboratory testing and different treatments that are carried out involving the disposal of waste from the Laboratory Building.

The Non-domestic Wastewater is collected in an inspection box that has a solid retention system and it is then pumped into the Non-domestic Wastewater Treatment System (that can operate by rough patches or continuously) to reduce the pollutant load before it is dumped to the EPM public sewage system. Each year, the corresponding dumping self-declaration is conducted, and the water characterization study to verify that the allowed limits are not exceeded for the required parameters by current regulations, this information is attached and sent to the Metropolitan Area of the Aburrá Valley and EPM. The characterization conducted in 2020, shows that the Non-domestic Wastewater fol-

lows all the parameters established in Resolution 0631 of 2015, section 15, Physicochemical Parameters, and their maximum permissible limit values in specific Non-domestic Wastewater dumping for industrial, commercial, or service activities other than those contemplated in Chapters V and VI and section 16.

On the other hand, Bucaramanga Campus has a dumping permit granted by the CDBM (Regional Autonomous Corporation for the Defense of the Bucaramanga Plateau for its acronym in Spanish). To carry out the dumping, the University has a treatment plant that consist of the following process: Wastewaters arrive to the WWTP through a 4" sewer pipe and passes through a grid that retains coarse solids, then it has a desander and a grease trap, later the water is conducted to the flow regulation tanks and it is elevated to the distributor box that feeds plug flow reactors -PFR- in parallel. The PFR effluent is conducted by gravity to the channels that contain water hyacinth. Then the effluent passes through an aeration pond, and lastly is dumped to the Menzulí Creek, similar to the Main Campus. Each year, the corresponding dumping self-declaration and the water characterization study is conducted to verify that the allowed limits are not exceeded for the required parameters by current regulations.

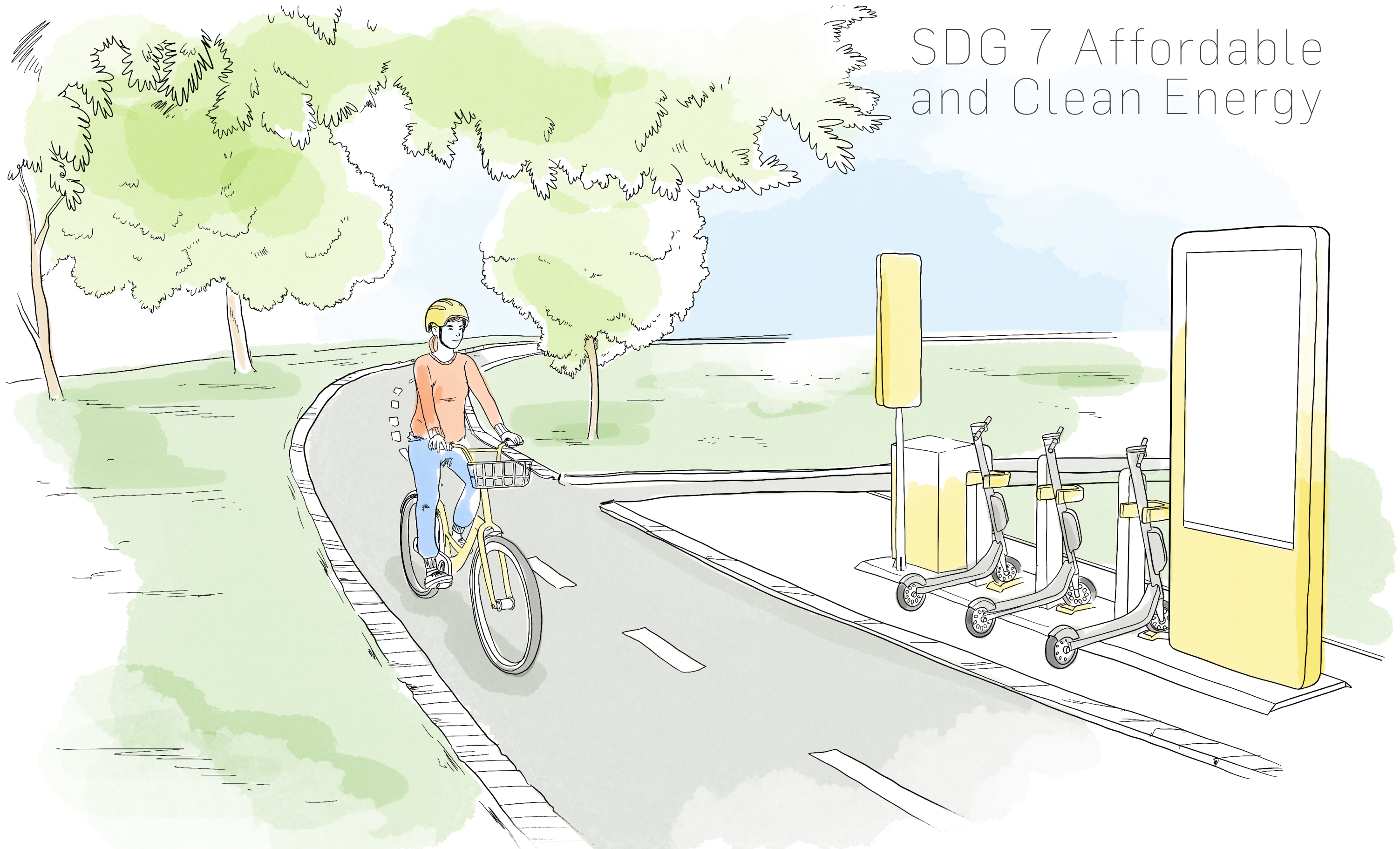




7 AFFORDABLE AND CLEAN ENERGY



SDG 7 Affordable and Clean Energy





UPB suggests strategies to preserve the service and integrity of electric power.



GRI 302-1 GRI 302-2 GRI 302-3

Efficient power management and the use of renewable energies at the University

“Since 2012, with the Micro Smart-grid program, the University declared its first strategic goal: to transform the Laureles Campus in a Smart City Lab through which energy management would be optimized, and to incorporate solar photovoltaic and biomass generation, electric mobility, smart measuring, pilots of automated sustainable construction, smart public lighting, sensory and distributed IoT, and monitoring through a control center.”

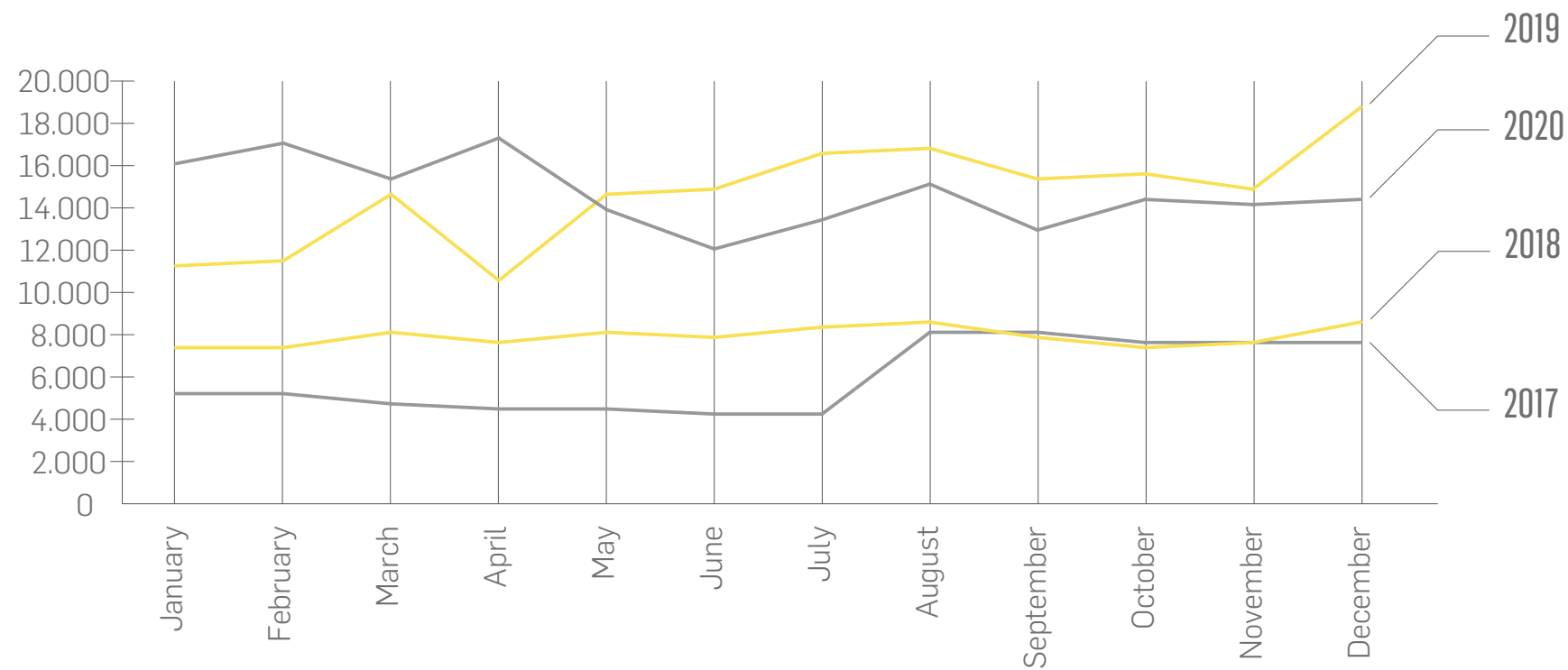
(Idi Amin Isaac Millán, UPB Micro Smart-grid program leader).

COVID-19 Scenario

In the absence of students and employees, the EcoCampuses registered a significant decrease in electric power consumption. Based on February 2020 consumption, there is a sustained fall of more than 50% during the rest of the year. This meant an increase in the contribution (share) of renewable energies during the April – December 2020 period. Solar systems supplied an average of 8% of the used energy, although some days a 35% of renewable energy contribution during sustained hourly intervals was reported. Participation of renewable energies in the UPB 2020 electricity matrix: translated into practical indicators, the photovoltaic solar energy injected into the grid during 2020, would allow to power 96 houses for one year.

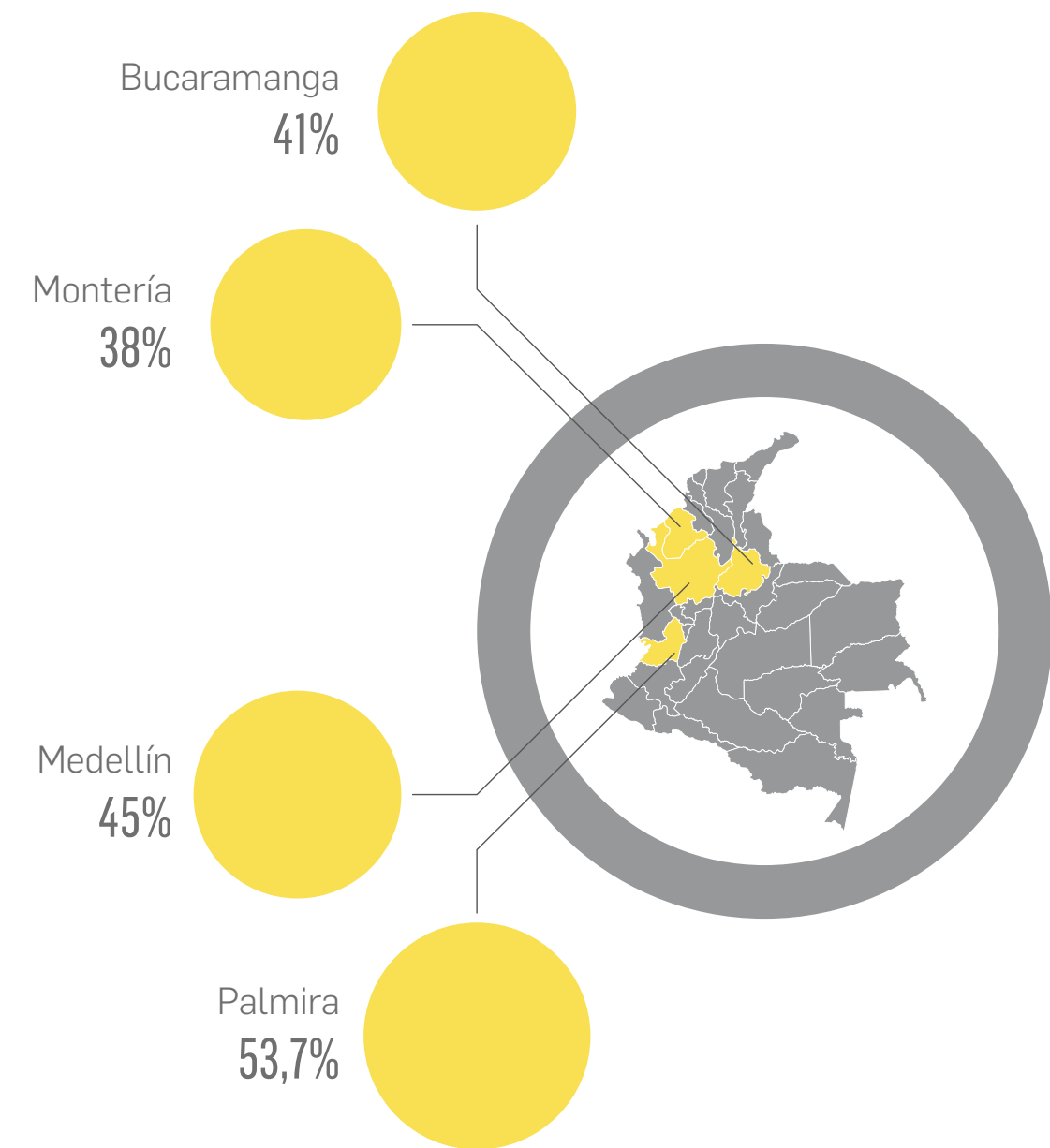
Participation of renewable energies in the UPB 2020 electricity matrix: translated into practical indicators, the photovoltaic solar energy injected into the grid during 2020, would allow to power 96 houses for one year.

Evolution in solar energy generation

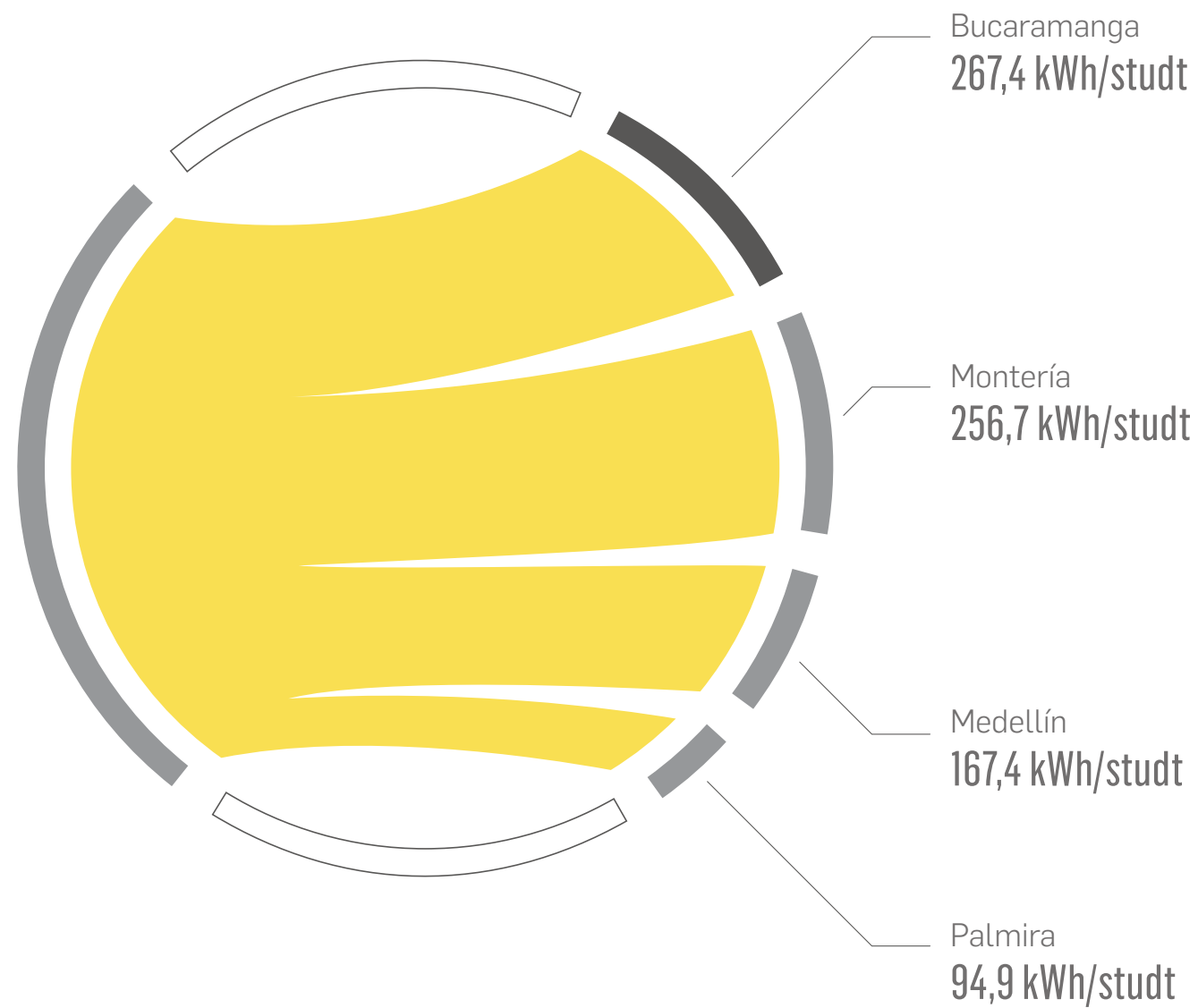


Since 2012, with the Micro Smart-grid program, the University declared its first strategic goal: to transform the Laureles Campus in a Smart City Lab...

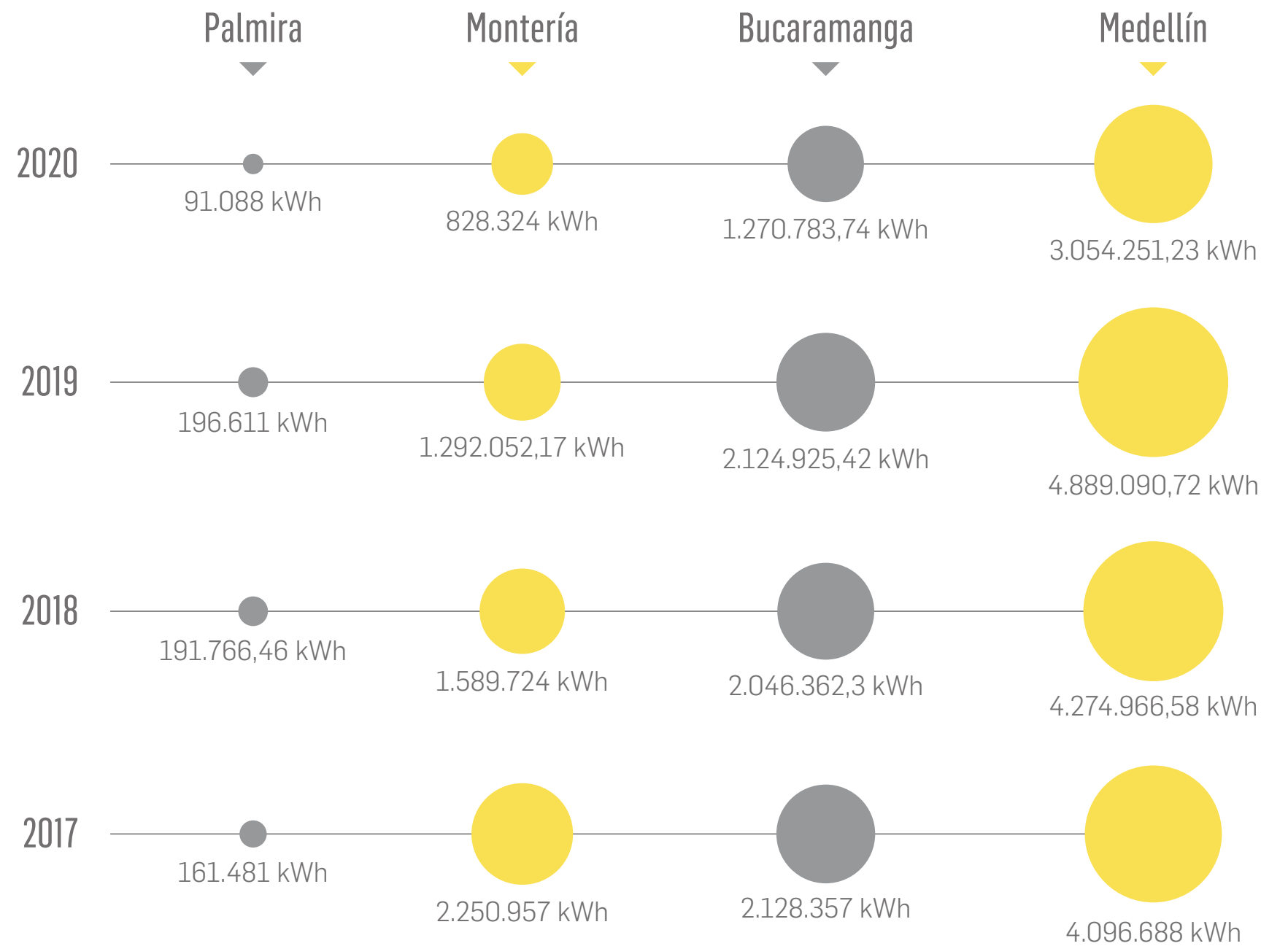
Power consumption reduction in 2020 in comparison to 2019.



Average energy consumption per student



Evolución del consumo de energía por Seccional





“Energética 2030”, is an inter-institutional alliance led by the National University of Colombia, made up of 11 organizations: 8 Universities (UNAL, UPB, EAFIT, EIA, CECAR, UNICSUCRE, UNIGUAJIRA, UFPS,) and 3 companies (ISA, XM, INTERNEXA), to execute an R + D + i program, financed by Minciencias within the framework of Colombia Científica, which responds to the strategic focus of Sustainable Energy and which seeks to define transformation strategies for the Colombian energy sector by 2030. The Program is made up of 11 projects in which at least 250 people (Researchers, Students, Professionals) are involved during its 4 years of execution (2018-2022).

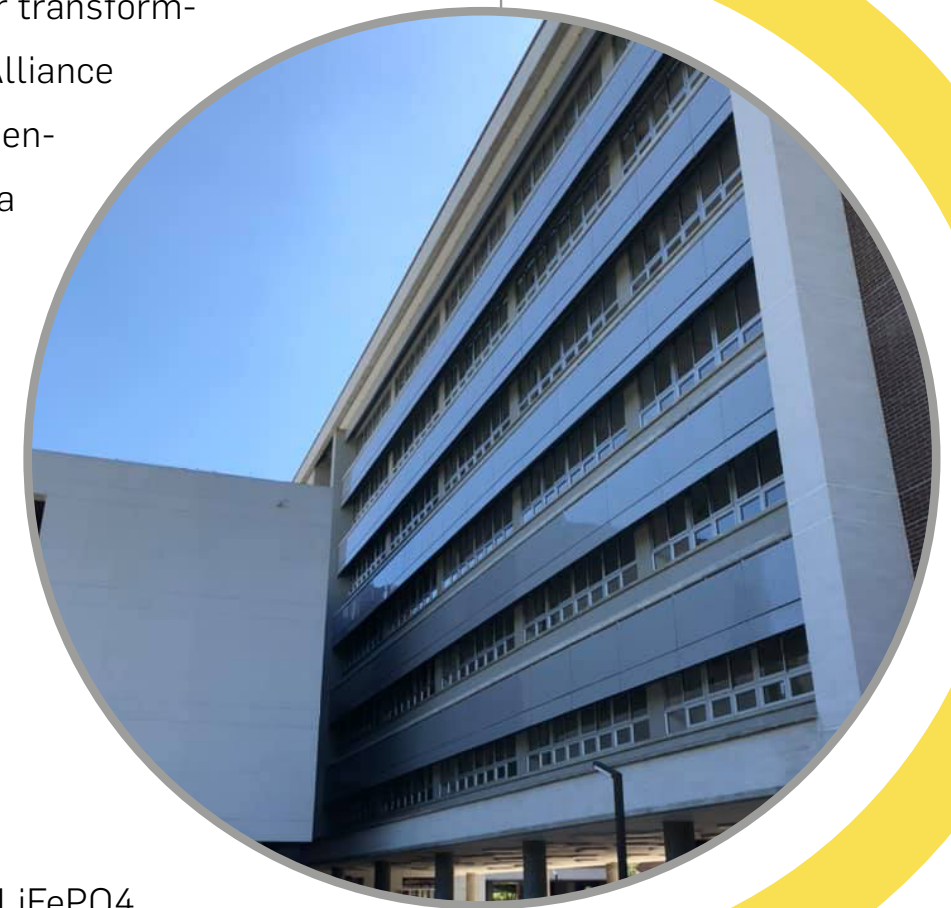
In addition to the increase in the contribution of renewable generation in the EcoCampus, other initiatives aimed at sustainability, led by the UPB Smart Energy Lab (SEL – UPB) during 2020 are presented below:

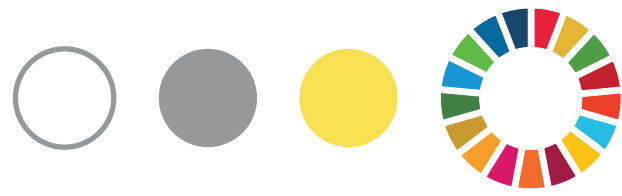
Energética 2030: Applied research to energy management for sustainability

2020 was marked by the operational consolidation of the Strategy for transforming the Colombian energy sector in the horizon of 2030 (Energy Alliance 2030), a winning program of the call of Scientific Colombia from Minciencias with resources from the World Bank. The Universidad Pontificia Bolivariana, coordinates some of the projects that are part of the program and is a relevant actor in some others. Within the Energy Alliance 2030 framework, highly sensitive topics for sustainability are being developed, such as: Characterization of the electric power final consumer, Sustainable building, Sustainable mobility, Distributed solar and wind power generation, Micro Smart-grids, and appropriation of technology.

Intelligent energy storage system implementation (BESS) in the Smart EcoCampus

Since September 2020, an intelligent energy storage system with LiFePO4 batteries was implemented. This system allows to: optimize the operation of a section of the campus especially in maximum demand hours, compensates for network fluctuations, and improves power quality. Within the Smart EcoCampus planning, the BESS system was designed to later be connected to a possible photovoltaic solar generator installed in the Main Campus Library.





Multicampus monitoring platform of meteorological and environmental variables information analysis.

Within the institutional growth and Multicampus strengthening efforts, a monitoring platform of meteorological and environmental variables was structured. The system has a total of nine (9) state-of-the-art energy-efficient weather stations (they have photovoltaic modules), provided with very precise sensors for measurements: wind speed, solar radiation, humidity, precipitations, PM2.5, PM10, temperature, and pressure. Three meteorological stations were installed in Medellín Campus (Laureles EcoCampus), Bucaramanga, and Palmira.

Sustainability and Social Projection - Training

Based on the experience acquired with the EcoCampus energy management, the UPB Smart Energy Lab (SEL - UPB) was able to offer the community advanced training courses in:

- Integration of non-conventional renewable energies to power systems
- Micro Smart-grids
- A Certification Program in Solar Energy
- A module in the Sustainability Certification Program

Three meteorological stations were installed in Medellín, Bucaramanga, and Palmira Campuses.



International Network “Inhabiting the Cities of the Future” (REHVIF)

The Socio-ecological and digital transition needs to refocus practices either induced by technologies or by a necessary decision in the face of energy-environment-climate challenges. Sustainable Development (SD) and everything digital are hybridized, but few studies treat them simultaneously in terms of uses. Through the participation of the Smart Energy Lab - UPB in the International Network “Inhabiting the Cities of the Future” (REHVIF), discussion topics have been led, merging the implementation of technology with its appropriation by citizens. Researchers from multiple areas are part of the REHVIF, they are from: UQUAM and Université Laval (Canada); University of Toulouse 2 (France); Université de Bouaké and Université International de Grand-Bassam (Ivory Coast); Flacso (Ecuador); UAM (Mexico); UCAD (Senegal).



GRI 102-11 UPB 15
Sustainable mobility and a commitment for clean energy in the UPB

The development of new energy technologies raises several technical, economic, social and scientific challenges. The solutions that satisfy the high future energy demand in the coming years will be accompanied by the implementation of new energy sources, greater efficiency, a balance in the energy source distribution, as well as new lifestyles that allow adjusting the diversity of costs and minimizing the ecological impact produced by population growth.

All the above, simultaneously compromises environmental aspects, and to achieve a balanced commitment between energy and environment it is required to have global approximations and face the diversity of cultures, languages, political priorities, among other obstacles, leading to an apparent energy solution for one country, to be very different to another.

Latin American countries are no less distant from this phenomenon, and even Colombia, whose geography, population, diversity, variety of natural, energy, and mineral resources, creates synergies of apparent opportunity, provided that adequate energy-environmental policies can be implemented, as well as a pertinent planning in the medium and long term.

Smart EcoCampus Project and its contribution to Sustainability

According to the Smart EcoCampus strategic planning, the R&D goals of the current and future stages aim to:

- Consolidate and expand the subsystems that currently operate to continue to reduce the carbon footprint associated with the EcoCampus energy consumption.
- Install new infrastructures for the use of organic waste at a Multicampus and residential scale. It is expected that this last one becomes a solution to ease access to energy in non-interconnected zones of the country.
- Conduct applied research for the production, storage, and integration of green hydrogen. It is expected that a storage prototype with H2 is incorporated into the EcoCampus.
- Integrate the thermal consumption monitoring of the cooling district, to the Smart EcoCampus control center.
- Study the pre-feasibility to implement a green corridor with sustainable transportation that connects the EcoCampus with the Metro System for the Main Campus.

Smart EcoCampus Project

Strategic Planning

Active Distribution Network	Smart City Lab	Nanogrids + Smart City Lab + Virtual Power Plant	
PHASE 1	PHASE 2	PHASE 3	PHASE 4
2013 - 2016	2017 - 2019	2020 - 2021	2021 - 2023
PVS – Phase 1	PVS – Phase 2	Multicampus Monitoring Network	Virtual Power Plant
EV Mobility + Charging Station	Hábitat Smart Home – Nanogrid	BESS Storage	Support: Energética 2030
Biodigestion System	E-Bikes + Charging Stations	Generic and Commercial Microgrid Controller	2.0 SAEB Storage – Hydrogen Second Life
Control and Monitoring Center	AMI: Advanced Metering Infrastructure	Nanogrid for ZNI Biodigestors + PVS	E- Mobility Feasibility
		Cooling district	Markets 2.0 P2P Payments Blockchain
		Dynamic Compensator D-STATCOM HVdc 4kW	

For UPB, efficient management of energy implies the constant search for improvement of processes that involve energy investment for the operation and transformation of products and services. In accordance with sustainability, actions focused to contribute to efficient management of energy have been developed through strategies as educational messages referring to energy's



proper use and saving, photovoltaic modules installation, and the engineering laboratories LEED certification in the Main Campus, and in the construction of Building 3 in Montería Campus.

Likewise, in Montería Campus there has been an awareness for the advances and integrations that contribute to efficient management and savings in terms of energy, therefore this year 246 solar panels of 400w were launched to generate 80kVA that are provided to the University's energy consumption network to reduce consumption from external networks. As for Electro-mobility, the UPB has the following milestones:



The UPB commits to motivate active mobility with 1.152 meters of internal bicycle routes and about 600 bicycle parking places in the Main Campus EcoCampus.

Electric car for a more sustainable mobility

In 2013, the Energy Transmission and Distribution Research Group of the UPB's School of Engineering along with Terpel, developed a project whose purpose was to analyze the potential performance of electric vehicles in Colombia from technical, economic, and market dimensions, and for this purpose, a Chevrolet Volt type vehicle was brought, which has a range of 50 kilometers powered entirely by electric power. Additionally, the fuel added to the vehicle is used to generate electricity in what is called extended range, on the other hand, it has a regenerative braking system that allows to recharge the battery as the vehicle uses the brakes.

Electric Bikes

In 2013, the UPB acquired 10 electric bicycles with the firm purpose to research about the performance and replicability of these systems in different education and work areas, in addition to this, six charging stations were installed for these vehicles. Currently, bicycles have a route of more than 6.200 kilometers altogether. The UPB commits to motivate active mobility with 1.152 meters of internal bicycle routes and about 600 bicycle parking places in the Main Campus EcoCampus.

Educational activities such as lectures called "Movilidad del Futuro" (Mobility of the future) were carried out in the Montería Campus, offered to engineering students, moreover, an Architecture professor participated in two doctorate research works about mobility, the first one named "Design of bicycle mobility focused on adaptability to the needs of social groups, a case study of the bicycle mobility network for the cities of Quito and Guayaquil, Ecuador. The second one referred to "Extractive exploita-

tion to environmental recovery, mining landscapes and their transition. Portovelo – Ecuador”. Additionally, active mobility activities were carried out in the Campus such as “Ciclopaseos” (Bike tours), linking to the no-car day in the city on February 6 and September 22.

GRI 306-2 GRI 306-4

Integral management of hazardous and non-hazardous waste

GRI 102-11

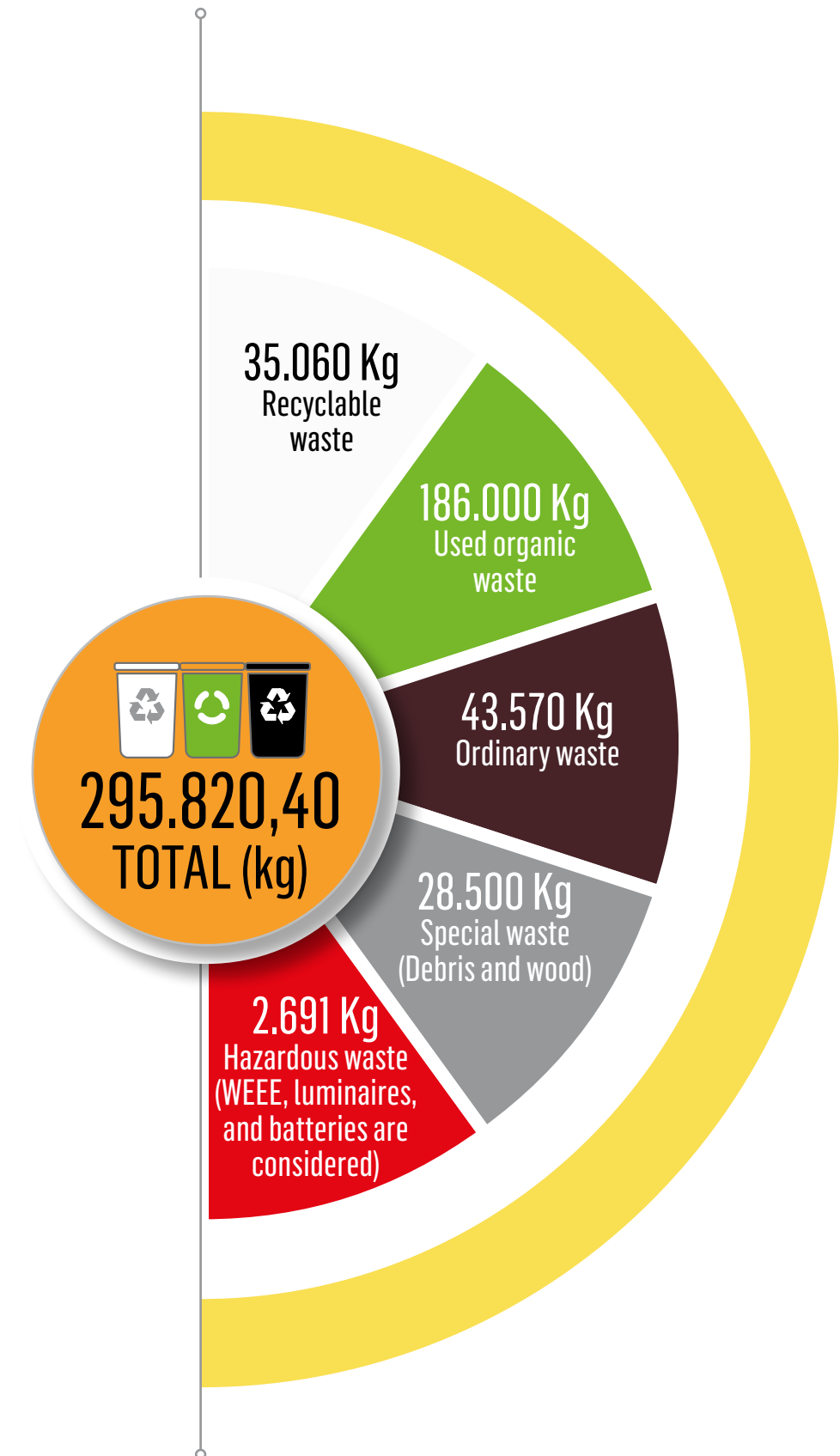
Precautionary approach and integral management of waste

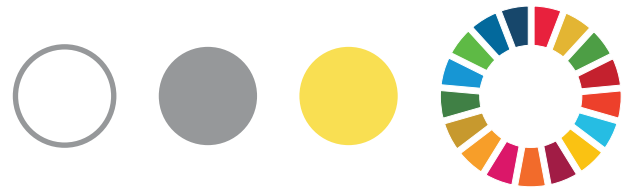
The UPB started an audit process of the Zero Waste Management System with ICONTEC, and the obtained result is the silver category certification. This means to be the first University in Colombia that is strongly committed to the use of waste and the circular economy strategy, representing in a collaborative work between the public and private sectors.

It is a starting point to achieve the golden certification and to expand to a Multicampus scope, this way we continue to consolidate the sustainability culture.

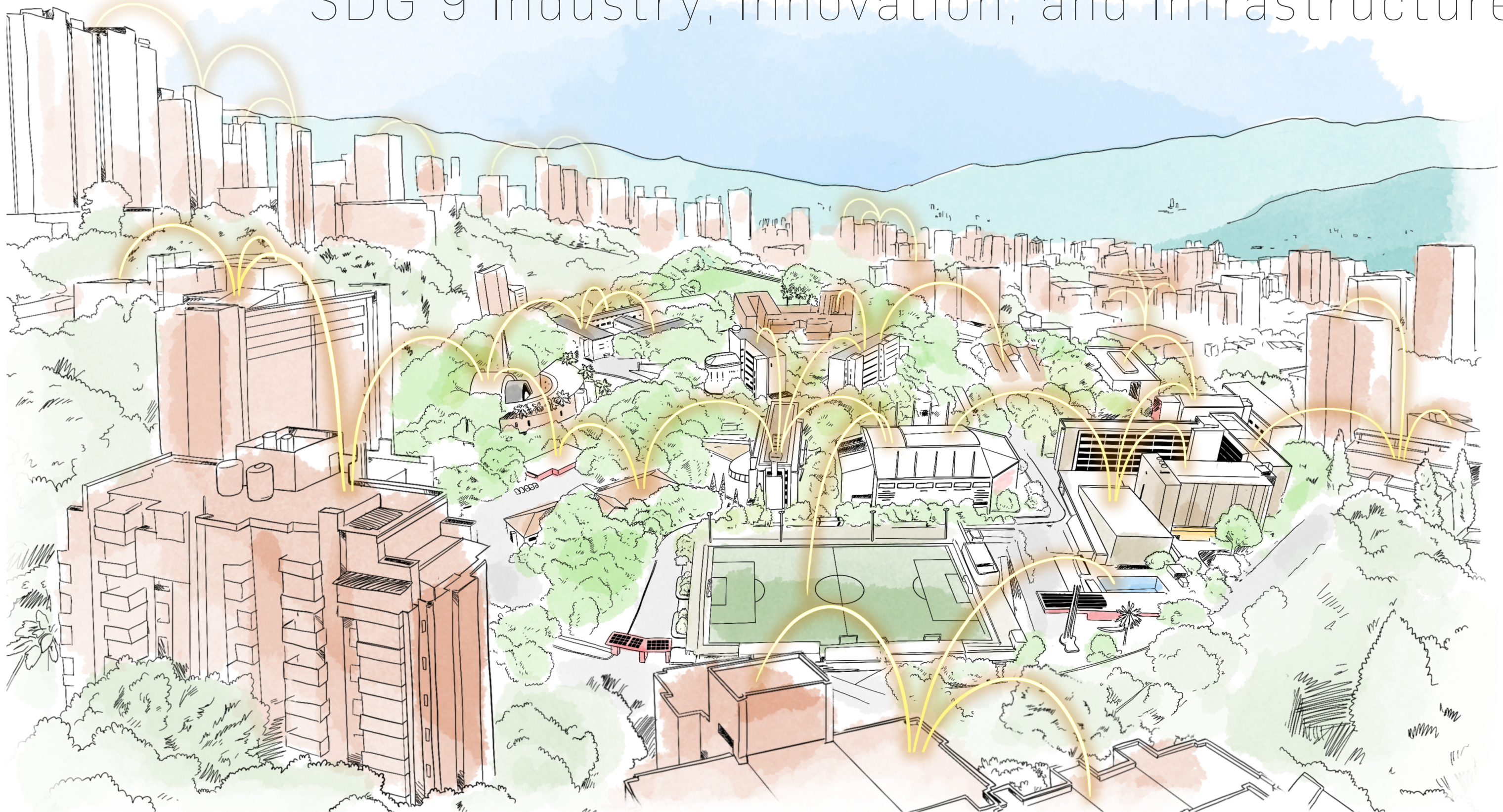


Possibilities of Bacterial Nanocellulose obtained from fique sugary juices for energy storage in lithium-ion batteries and supercapacitors.





SDG 9 Industry, Innovation, and Infrastructure





GRI 203-1

Physical Infrastructure investment Progress

Modular panel for a hospital environment. Better conditions for COVID-19 patients.

Master Development Plan investment

The UPB on its commitment with sustainability and zero single use plastic, made an important investment of about \$70.000.000 (COP) to purchase 12 drinking water stations that are available for students and employees of the Main Campus. In the Main Campus, changes on the air conditioning system in buildings 10, 3, 12, and in the Aula Magna (Main auditorium) were carried out for a total of \$ 3.354.106.892 (COP), these work with ice water, which allowed to put the cold district in operation with greater energy efficiency since it makes use of its full potential. Also, the dimensioning on rainwater networks was carried out with an investment of \$15.079.680 (COP), the design of the irrigation system for \$10.288.246 (COP), the rainwater channeling systems in Marinilla for \$26.422.220 (COP), and the substations and power plants maintenance whose value amounted to \$62.601.616 (COP), for the parking area a total of \$80.269.308 (COP) were invested in the maintenance of the vehicular guidance (Parkhelp). On the other hand, in the Montería Campus investments in the new building 3 and the rest of the physical infrastructure were done reaching a total of \$8.242.534.407 (COP). And finally, in Bucaramanga Campus investments for \$1.184.260.403 were done by the Master Development Plan.



GRI 203-1

Advances in investment to physical and technological infrastructure

N95 masks modified from nanotechnology with antiviral agents.

Information and Communication Technology Center investments

Description	Main Campus	Bucaramanga	Montería	Palmira
Software renewal	\$ 3.987.845.873	-	-	-
Software investment	\$ 256.909.562	\$ 1.663.413.201	\$1.196.060.087	\$ 65.021.730
Hardware	\$ 2.267.794.394	\$ 1.097.836.418	-	\$ 24.311.855
Computer and communications equipment maintenance	\$ 862.304.139	-	-	\$ 111.236.356
TOTAL ICTs	\$ 7.374.853.967	\$ 2.761.249.619	\$ 1.196.060.087	\$ 200.569.941



GRI 102-10

Sustainable construction progress at the University

Bioclimatic and applied sustainability

The Montería Campus Building 3 project emerges with different Bioclimatic and Sustainability concepts and criteria, applied in its different stages of formulation, design, construction, and operation. These strategies seek to mitigate the negative environmental impact, the optimization of resources from different natures. The goal of this construction is to obtain the LEED Silver Certification, seal granted to constructions of this category, also, the building is an architectural milestone for the city and the region not only for its environmental commitment, but for the implementation of different technologies, designs, and systems.

One of the design premises was to implement strategies for the efficiency and responsible use of water resource such as:

- A rainwater collection tank is built with a capacity to collect 112 m³ of water that is used to flush toilets from public restrooms. Also, the tank is connected to the building's fire-fighting network, so that in case of emergency this water will be used to dissipate the fire.

- Hydro-sanitary fixtures (sinks, urinals, toilets) were selected for their saving characteristics in terms of the efficiency of discharges and their duration.

Regarding the efficient use of electric power, the goal is to guarantee significant savings, between 15% and 20%, in the use of electric power from the external network.

Hence, a solar panel array was installed in the roof, with the capacity to produce the initial proposed percentage. According to the energy requirement, location variables, and production capacity, a total of 240 panels were indicated for the roof.

Lastly, the cooling system installed in the building runs on ice water circulation, it was considered as the best option for the building due to the low negative impact that this system has to the environment compared to other systems that use gases or other compounds that, in long term, have considerable environmental implications.

Regarding the efficient use of electric power, the goal is to guarantee significant savings, between 15% and 20%, in the use of electric power from the external network.



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE




Some achievements:

- Employment generation for local and unskilled labor.
- 48% of suppliers and contractors are locals.
- Use of building material from the area.
- Inclusive project since gender equity criteria were used.
- Management and use in waste recycling processes
- The project is accessible for people with physical limitations. The project is developed to have ramps in the first level, podotactile guides, and PRM restrooms in all levels.
- Many of the professionals from the different companies that participated in the design and construction are our graduates.

So far

\$1.700

million pesos (COP) have
been invested to adjust the
University for alternation.

*Audiovisual
equipment and
mobile cameras
were installed
for classrooms,
and cameras for
experimentation in
laboratories and
workshops.*



GRI 102-9

UPB Suppliers

In Montería Campus, total acquisitions made in 2020 were for \$3,477,617,373 (COP) of which \$1,409,206,943 (COP) correspond to local purchases. In percentages, these local purchases correspond to 41%. On the other hand, 300 suppliers were hired in the Main Campus with a total in purchases of \$11.503.106.211 (COP) of which \$4.225.082.427 (COP) correspond to local purchases, this means that 182 providers (61%) are in the Metropolitan Area of the Aburrá Valley. The purpose of this is to achieve efficiency and effectiveness throughout the supply chain, as well as to contribute to the economic development of the region and the country.

Meanwhile in the Bucaramanga Campus, 349 suppliers were hired during 2020, purchases were made for a total of \$4.068.418.510 (COP), of which 46%, that is \$1.871.472.515 (COP), are from local purchases made in the Bucaramanga Metropolitan Area.



Nanobioengineering for better colon cancer diagnosis and treatment devices.

“Being an entrepreneur requires passion, discipline, perseverance, and certainty. As entrepreneurs we must not give up, we must be very clear about what we want and be persistent.”

(Camilo Serna Vargas, entrepreneurial graduate. El Duque Atelier).

UPB 16

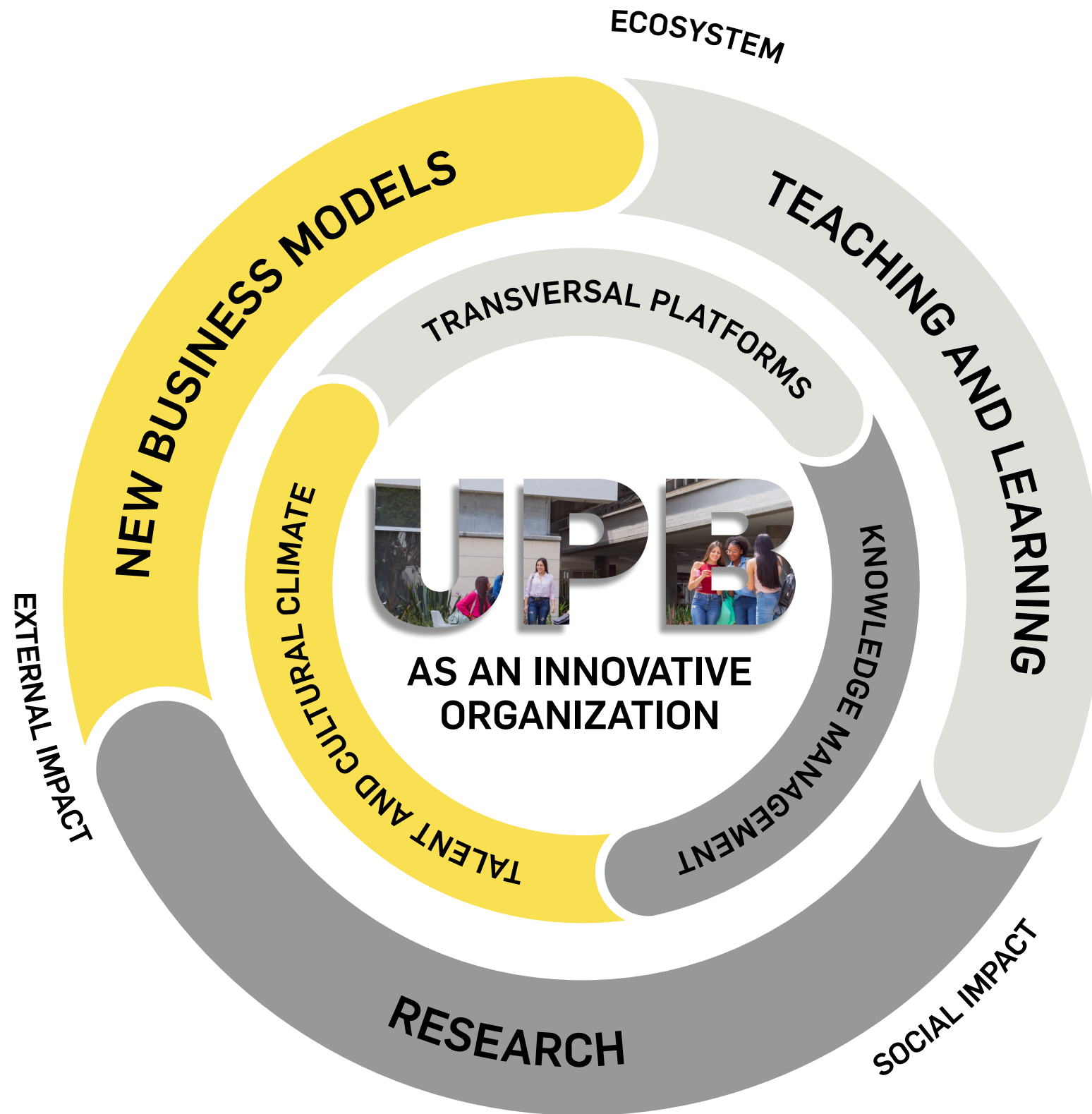
Entrepreneurial ecosystem

“To be an entrepreneur is perhaps the most satisfying activity one can have in life since one is working and striving to fulfill one’s dreams. To follow what really makes you passionate... What a huge challenge! Not everybody can make it, and many are “stranded” on the way.

(Camilo Mejía Jaramillo, entrepreneurial graduate. Proyecto Aerobotes DITA).

“I am Business Administration graduate from UPB Bucaramanga, beyond thinking on doing a profitable business, I wanted to make my passion a reality. I grew up with an independent mindset and, over the years, my interest on women’s fashion grew. This is how, when I had the opportunity to participate in the Entrepreneurship Fund, I decided to create my own women’s shoe factory with a special and innovative concept that will mix everything I have learned in my family, and my priority is to support the Colombian industry.”

(Daniela Moreno Suárez, entrepreneurial graduate).



Innovation UPB

- Generate an innovation culture at the University in professors, administrative staff, students, and graduates.
- Strengthen innovation abilities in a transversal way in the University to achieve a greater scope.
- Increase the impact derived from innovation with different types of value for those involved.
- Grow the number of new businesses, internal initiatives, and processes improvement to guarantee new income sources and resource optimization.
- Produce and manage knowledge with the corporate strategy.

“Innovation for UPB and its Directives plays a very important role. We are aiming to innovate from our core, on how we see ourselves as an organization, to how new business opportunities will allow to be more competitive and relevant in the region.”

Pablo Ángel Restrepo, Multicampus Innovation and Knowledge Management Director



Innovation UPB, supporting social
and business transformation.

Innovation Committee

The committee members are:

- Ángela María Vanegas, Innovation, Research, and Development Director, Andercol.
- Mauricio Alejandro Vargas, ALSEC CEO
- Alejandro Olaya, Innovation and Entrepreneurship National Manager of ANDI (National Business Association of Colombia for its acronym in Spanish)
- Agustín Peláez, CEO/ Cofunder of UbiDots

Team representing UPB:

- Fr., Julio Jairo Ceballos, General President
- Luis Eduardo Gómez, General Vice-President
- Jorge Eusebio Arango, Guiding Board member
- Juan Carlos Zapata, Strategic Planning Director
- David Montoya, professional assistant to General Presidency and General Vice-Chancellery
- Pablo Ángel Restrepo, Innovation and Multicampus Knowledge Management Director



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



Centro de Desarrollo Empresarial®



UPB Business Incubator



- Experience
- Entrepreneurs
- Space

Multicampus entrepreneurial ecosystem progress

Entrepreneurs and / or companies assisted	569
Entrepreneurs who made accompaniment proposals pitches	313
Workshops given to entrepreneurs	149
Hours of expert advice given to entrepreneurs	521

Incubated businesses

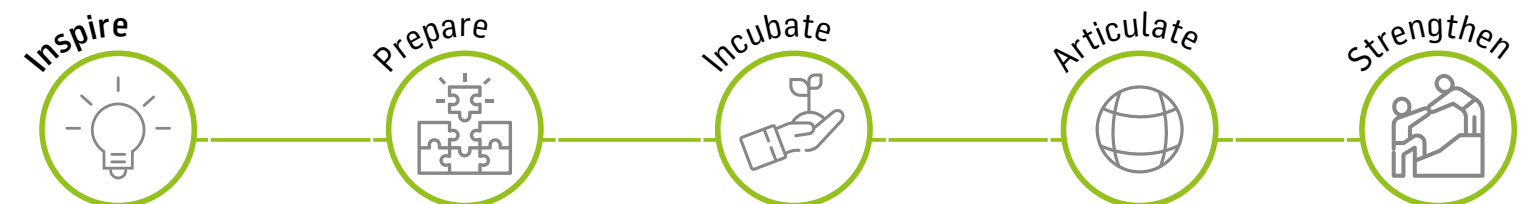


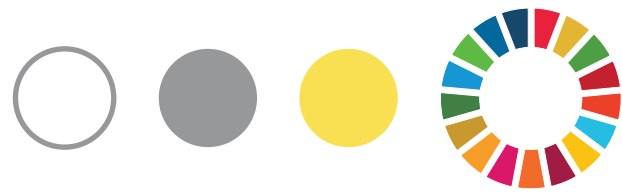
Cohort	Phase	Year	Companies
0	Incubation	2018	VICO
1	Incubation	2019	Conecta, Deepco, Vida and Work, WORK UNIVERSITY
2	Incubation	2019-20	Kambury, Escalante*, Torneos GG, Urban Profile*, 4Patas
	Strengthening	2019-20	Lola, Frutos and Semillas
3	Incubation	2020 -1	Winkel, Yugen, Palmina
	Strengthening	2020-1	Cámbulo, Punto Reflejo
4	Incubation	2020-2	Ecoproducciones, SARIBOT, Vamos con Toda

Business incubator

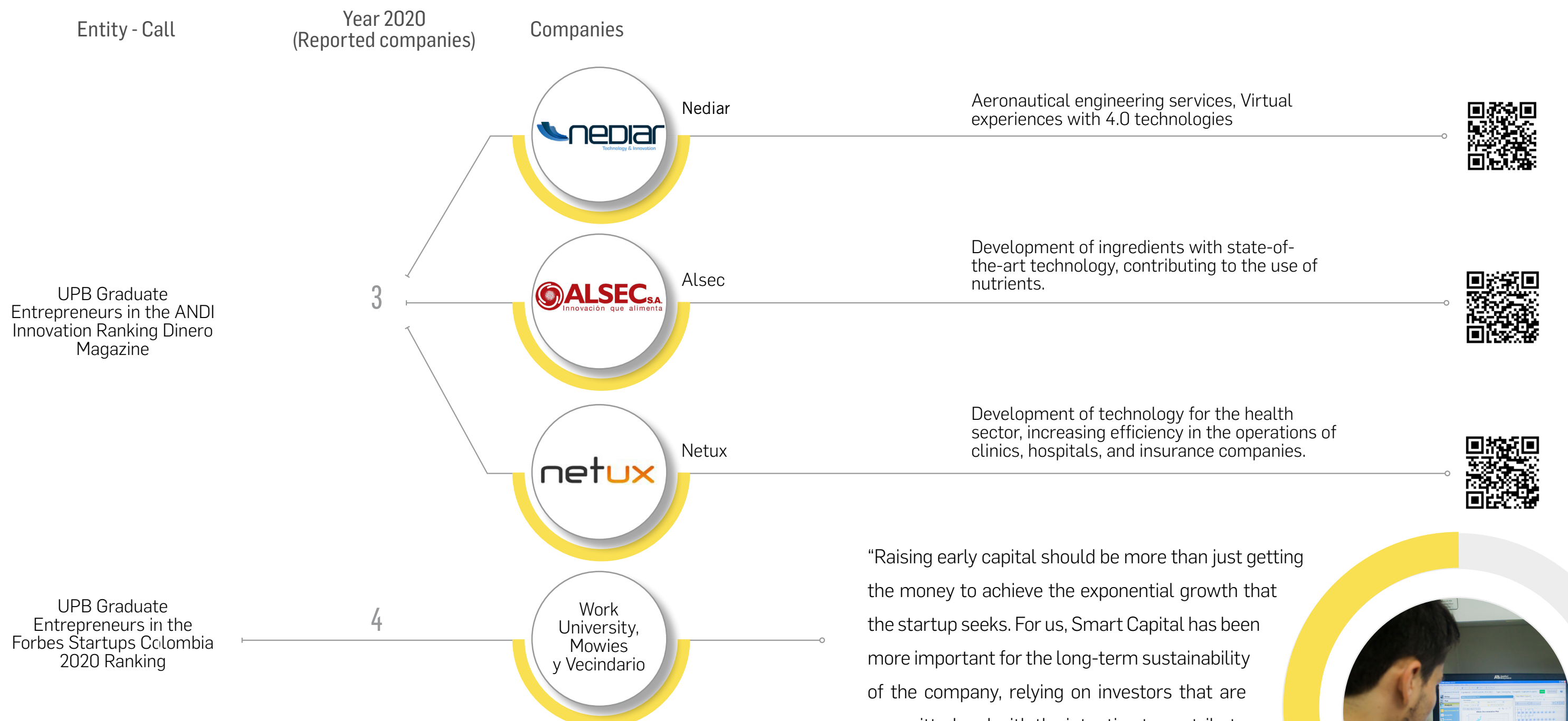


Through our business incubator, we accompany the structuring, consolidation, and business strengthening process with methodologies, mentoring, consultancies, and workshops. We have available spaces that help strengthen the business of the entrepreneur.



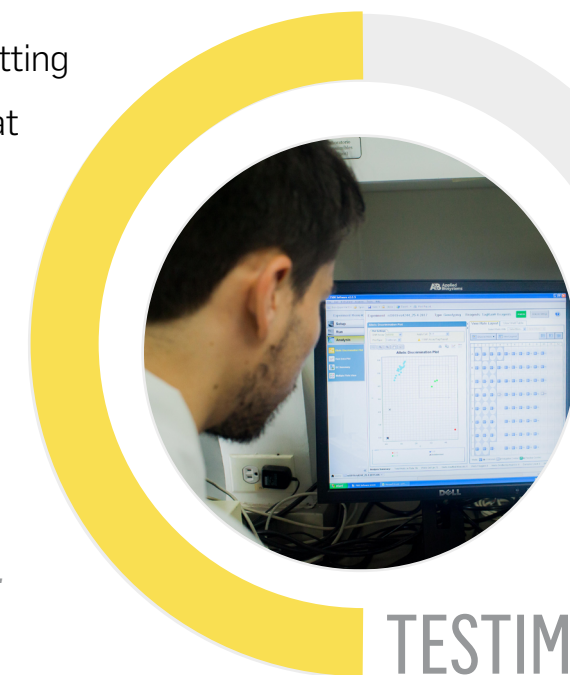


Entity - Call	Year 2020 (Reported companies)	Companies	Description	QR Code
	1	<p>Guillermo Castro Oficial</p>	They elevate the beauty of Colombian women under the concept of comfortable luxury.	
	1	<p>Las Chicas Que Pintan</p>	Workshops and murals that connect people with art and painting.	
	1	<p>Tmsolutions (2020)</p>	Fleet management software, vehicle control tool.	
	2	<p>MAKKI</p> <p>Guillermo Castro Oficial</p>	Woven accessories that elevate the beauty of women	
	6			
	7			



"Raising early capital should be more than just getting the money to achieve the exponential growth that the startup seeks. For us, Smart Capital has been more important for the long-term sustainability of the company, relying on investors that are committed and with the intention to contribute with more than just money."

*Sebastián Obregón, Cofounder
WorkUniversity.*



TESTIMONY

INTRA empren**dimiento** UPB *juntos*

- 100% virtually executed program
- National and foreign mentors and counselors
- Participants: administrative staff, professors, researchers, students, graduates.

72
Initiatives

42
Teams

3
Winners



Phases

1

Bootcamp: intensive training in entrepreneurship fundamental topics such as market validation, business model, finances, pitch.

2

Validation: intrapreneurs validate that their idea works, define hypothesis, and work hand in hand with mentors and counselors.

3

Intrapreneurship: final committee, with external and University representatives, to choose the ideas that will receive investment and accompaniment.

4

Teams and participants:
 a) Paper and Cardboard Packaging Laboratory
 b) WE UP UPB
 c) UPB Video game Development Center ASEIS

Technology transfer



2020 Results

- Research, Innovation, and Extension processes articulation.
- Business preparation of 3 technologies: 2 were transferred to Extension.
- 3 technologies in preparation, in agreement and calls with RutaN.

YoPeatón



Wearable Sensors



Bronchial Stent



UPB 17

Sustainable Purchases

Since 2018, the UPB has been adopting the sustainable purchasing approach, which contemplates the cost-benefit approach in the life cycle of environmental, economic, and social impacts of goods, labor, and services hired and acquired by the University.

Main sustainable purchasing strategy milestones of 2020:

- Sustainable purchasing criteria inclusion in the Works and Services Procurement Manual. General Presidency Resolution No. 037/2020.
- With a Multicampus coverage, co-creation exercises were developed with Procurement Units, Master Development Plan and Administrative Directories to prioritize goods and services to be included in the sustainable purchasing strategy, the criteria considered for this are: i. Purchase volume, ii. Urgency in the purchase of the good, iii. Expense / budget ratio, iv. Environmental, social, and reputational impacts, and v. Availability of sectoral information. The included goods were:
 - » Toilet paper
 - » Paper hand towels
 - » Luminaires (Master Development Plan)
 - » Garbage bags
 - » Antiseptic alcohol
 - » Disposable face masks
 - » Paintings (Master Development Plan)
 - » Cement (Master Development Plan)



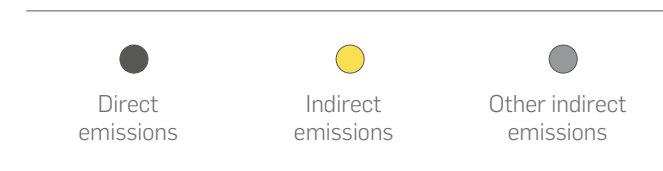
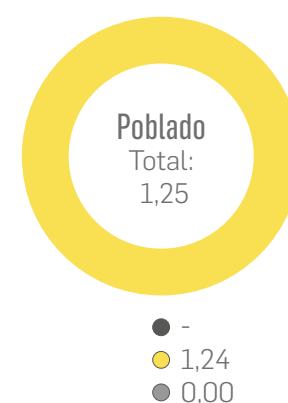
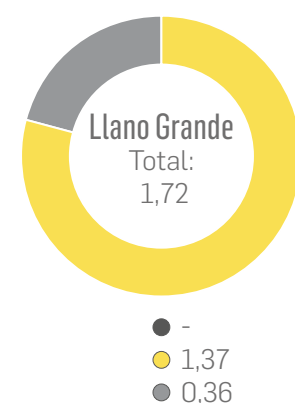
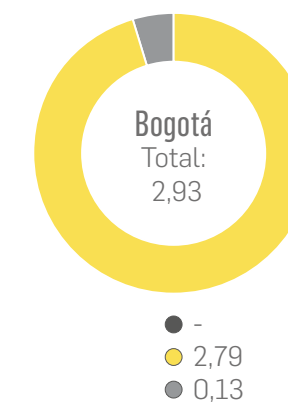
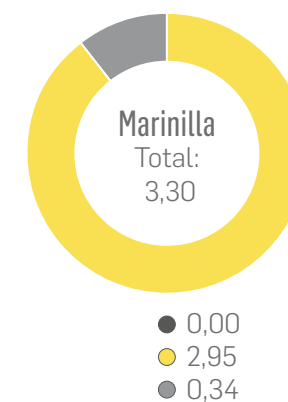
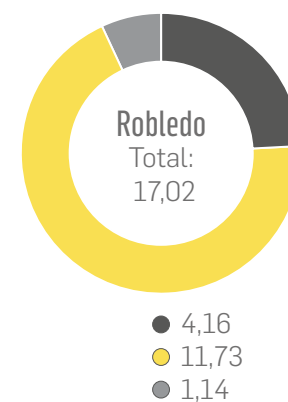
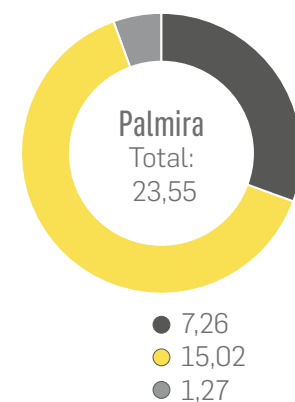
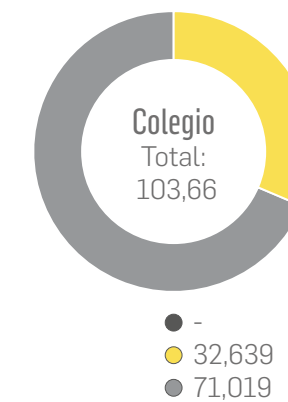
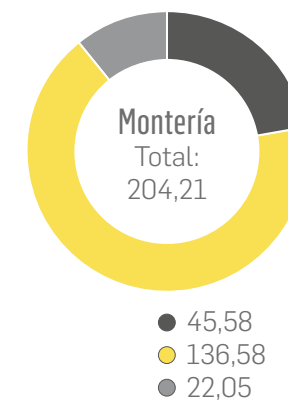
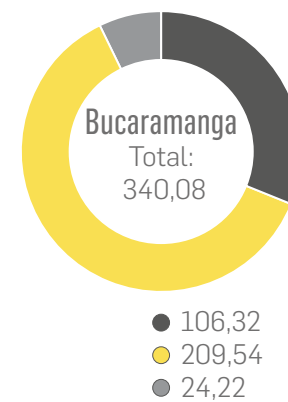
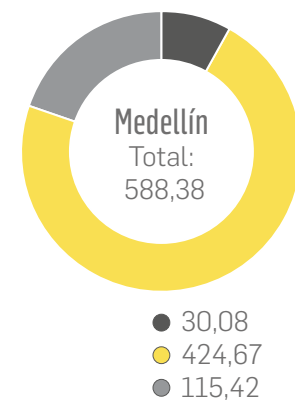
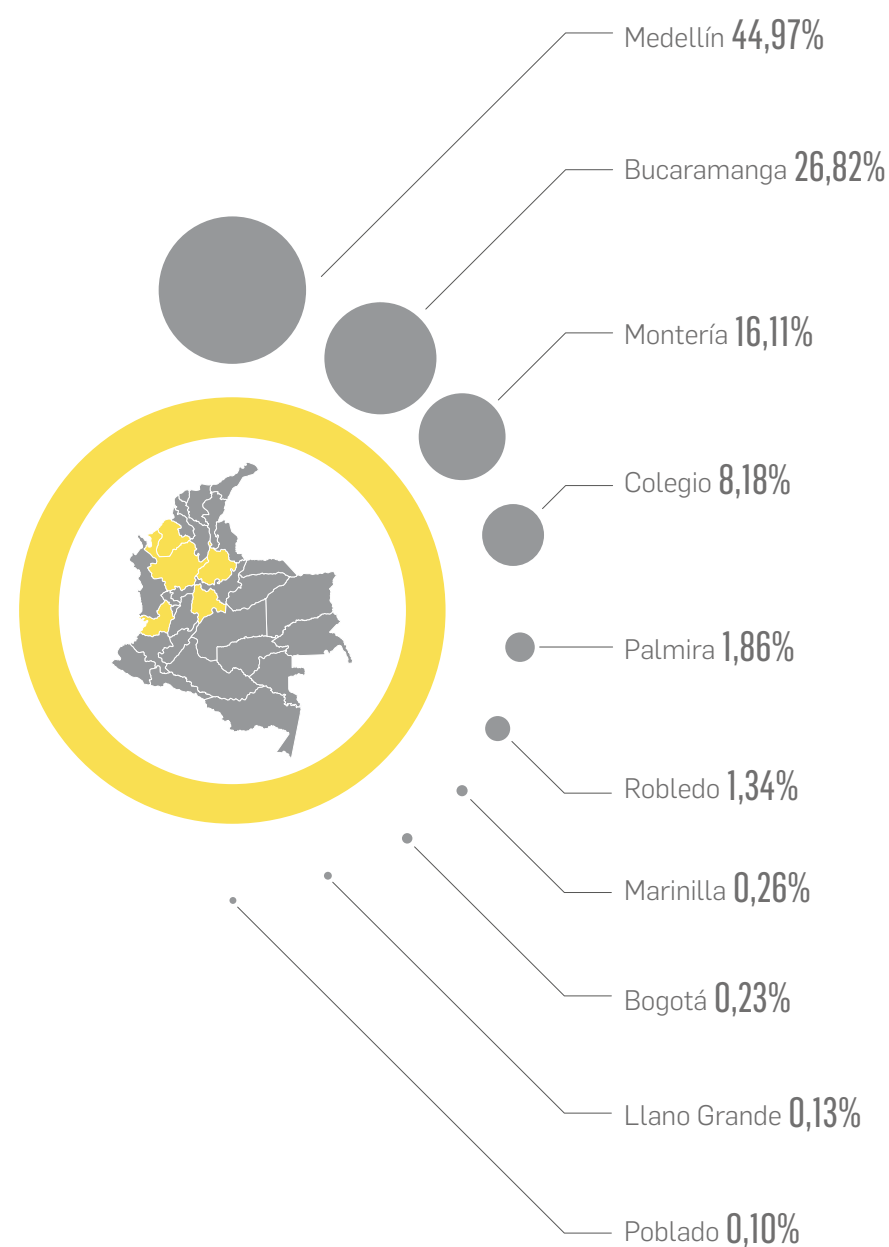
Ingenio expedition: science and children.

Since 2018, the UPB has been adopting the sustainable purchasing approach.

- A comprehensive tool was designed for the sustainable purchase's management:

Social criteria	Economic criteria	Environmental criteria
<ul style="list-style-type: none"> • Employment generation • Gender equality • Inclusion and non-discrimination Policies • Corporate social responsibility 	<ul style="list-style-type: none"> • Local production • Management of suppliers • Due diligence in human rights • Anti-corruption guidelines • Responsible and sustainable investments 	<ul style="list-style-type: none"> • They were defined according to the life cycle analysis of each of the prioritized goods

2020 UPB Multicampus carbon footprint overview



Total emissions 2020:
1.267,88

GRI 305-1 GRI 305-2 GRI 305-3 GRI 305-4 GRI 305-5

Carbon neutrality CO₂ Emissions management and climate change



Project: *In vitro* genotoxic biomarkers to evaluate the quality and safety of total particulate matter that comes from diesel mixed with alcohols. Discovering the air we breathe.

In March 2020, the University transferred its academic and administrative operations to virtual mode, which represents a significant reduction in greenhouse gases compared to 2019.

GRI 304-1 GRI 304-2 GRI 304-3

The University's management for biodiversity protection.

UPB Biodiversity



Applications to environmental management in Colombia. A view from the public, private, and social sectors



Conference: Biological indicators as tools for ecosystems study

We received Multicampus carbon neutral certification from ICONTEC.



1

Bird species and other animals

In the EcoCampus, a great number of animal species find in the diversity of flora and arboreal landscape a comfortable habitat to live.

In addition to the notorious and distinguished species of birds (about 20 different types between residents and migratory such as the robins, macaws, hummingbirds, and roadside hawks) it is possible to see bats, squirrels, lizards, and bees whom in their natural functions also contribute to the EcoCampus and landscape care.



2

Tree species

The UPB has around 2.500 arboreal individuals from about 200 different species, turning campuses into green lungs for cities and wildlife biological corridors, the following species stand out in each Campus:

- Main Campus: Almond Tree - Tropical Ash, Laurel Tree, Palm Tree
- Bucaramanga: Pink Guaiacum - Wild Cashew - Quickstick - Guava Tree
- Montería: Palm Tree
- Palmira: African Tulip Tree



3

Environmental education

Education for the coexistence of all the species that live in the EcoCampus:

- Bee relocation and articulation with local authorities for the management of injured fauna.
- Talks about the management of snake bites, inviting not to harm dangerous species, and to report them by calling competent authorities for their relocation (this applies for dangerous and non-dangerous species)
- A new type of snail was discovered in UPB Medellín. The only thing that is known so far is that the snail's genus is succinea.



4

Green areas

Medellín - 1.022.700,70 m²
 Bucaramanga - 159.765,20 m²
 Montería - 499.700,60 m²
 Palmira - 134.986,60 m²



The UPB represented Colombia in the 24th Annual Green Chemistry & Engineering Conference.



Realities and Perspectives of the Life Cycle Analysis Seminar.

GRI 102-11 PG 7, PG 8 y PG 9

Sustainability policy

The Universidad Pontificia Bolivariana, in its Mission and Vision context, and in line with the sustainable development, manages its macro-processes and strategic orientations in relation to the public, private, and social sector. With this, it seeks to contribute through positive impacts, to the construction of a peaceful, innovative, creative, solidary, and fair society; to a prosperous, inclusive, and equitable economy; and to a planet that houses all forms of life, with the purpose to achieve the social and human transformation.

Environmental policy

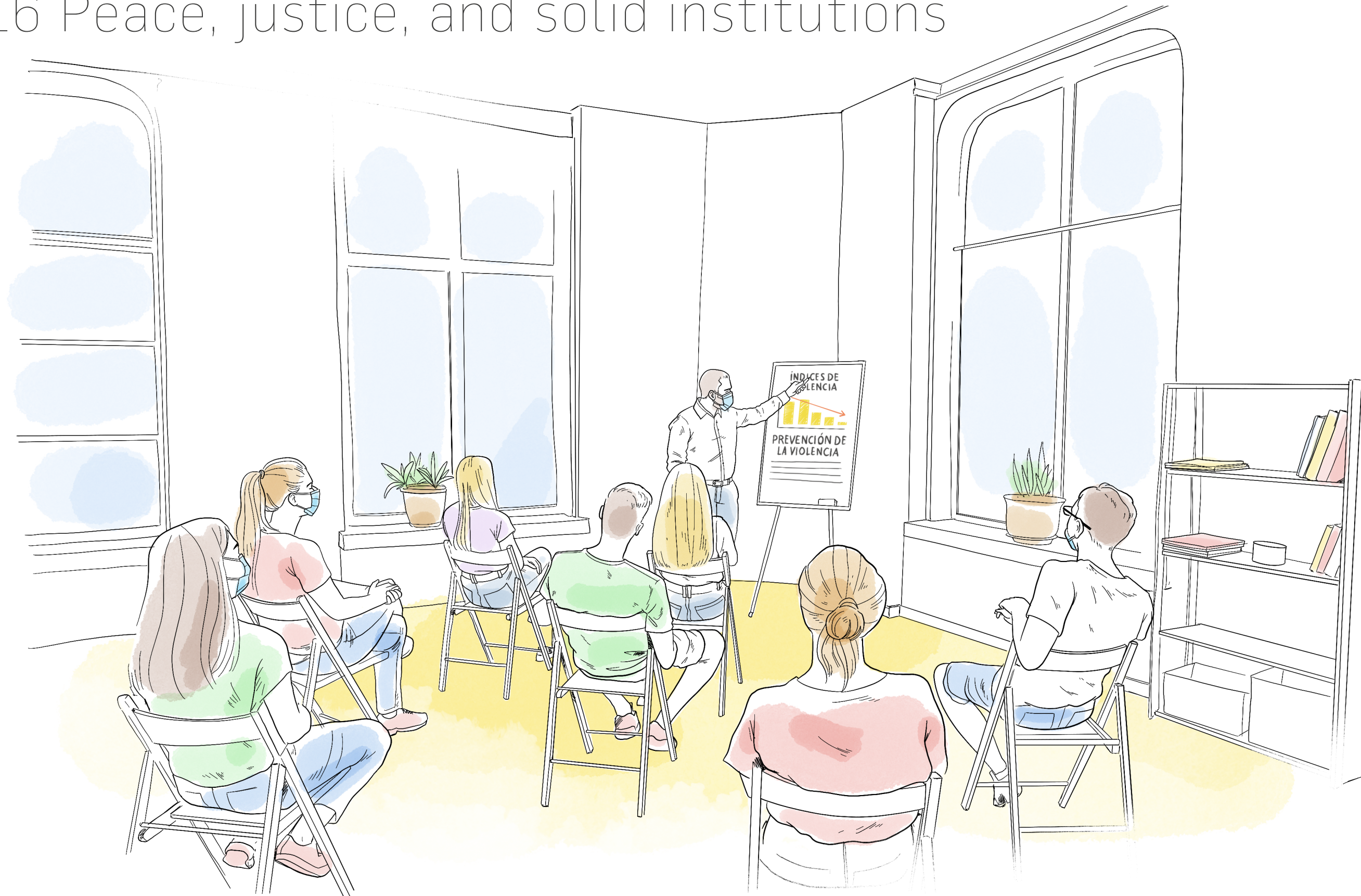
The Universidad Pontificia Bolivariana within the frame of its Sustainability Policy and with the efficient use of resources, is committed to the protection of the environment, and to the prevention of pollution from the education and management of aspects and impacts that disturb the environment, through education and culture strategies, to ensure the continuous improvement of its processes and compliance with applicable regulations.

At UPB, we frame the Institutional Development Plan actions, strategic lines, macro-processes, and action focuses on the sustainability principles and the Sustainable Development Goals. This work allows bringing our value promise to life in order to favor positive impacts over economy, environment, and society.

The University aims to the environmental dimension with the following actions:

- Sustainability and environmental policies are defined as an acting frame for the planification and decision-making.
- Transfer and permanent dialog with stakeholders are guaranteed.
- UPB takes measures to reduce energy consumption and greenhouse gas emissions and commits to carbon neutrality. It also has reduction goals with a Multicampus scope.
- Economic, environmental, and social goals and indicators are developed.
- The UPB takes measures to prevent and reduce the production of waste in campuses, in addition to ensuring responsible waste management with initiatives such as the Zero Waste program. Also, it provides information and trains workers on the management and disposal of solid waste.
- Campuses consider the care and rational management of natural resources such as: automated irrigation system implementation, alternative energy sources installation, passive natural ventilation strategies, air conditioning automation.
- The University ensures to prevent, minimize, and solve significant impacts over natural resources. In addition to calculating externalities, within which the measurement of CO2 capture is considered, this is possible thanks to the large number of green areas and tree species that the campuses have.

SDG 16 Peace, justice, and solid institutions





UPB in Urabá: virtual workshops in COVID times.

Transparency and fight against corruption

GRI 205-1 GRI 205-2 GRI 205-3 PG10

Los lineamientos anticorrupción de la Universidad

The University has a Procurement Manual that tends for the free competition and transparency in the acquisition of goods, labor, and services, this is based in seven principles:

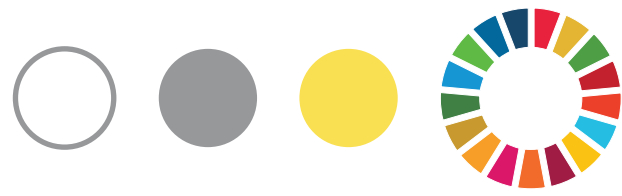
- Equality
- Economy
- Responsibility
- Objectivity
- Transparency
- Solemnity of Contract
- Planning to achieve the strategic goals

In 2020, the UPB incorporated sustainability criteria in the Procurement Manual to make an analysis of the economic, environmental, and social impacts associated to the acquisition of goods and services thanks to implementa-

The University has a Procurement Manual that tends for the free competition and transparency in the acquisition of goods, labor, and services.



tion of sustainability purchases strategy in the institution. On the other hand, there is a Good Governance Code, whose objective is to structure a set of self-regulation provisions that the University authorities and directives must oversee in the exercise of their functions. It becomes a guiding instrument to achieve the University objectives to preserve the ethical integrity, ensure proper administration, and public knowledge of its management, in addition to this, maintains open dialogues with stakeholders about the risks of engaging in corrupt behavior.



Economic growth, generation, and distribution of value

GRI 102-7

Net income, debt, and capital

GRI 102-5

The UPB is a non-profit organization founded by the Catholic Church and, under this condition, it does not have partners or shareholders with property rights, therefore, the surpluses generated are reinvested to the social objective and are not distributed to any external person. It operates

with one single NIT (Tax Identification Number)

890.902.922-6, and the financial statements

include the complete structure of assets,

liabilities, equity, income, costs, and ex-

penses. By December 31, 2020, the to-

tal assets added up to \$1.479.475 mil-

lion pesos (COP); the total accumulated

sales in UPB amounted to \$442.069

million pesos (COP), and the patrimo-

ny to \$1.236.278 million pesos (COP), all

corresponding to equity consolidation. On

the other hand, liabilities reached an amount of

\$243.197 million pesos (COP), of which \$99.730 mil-

lion pesos (COP) correspond to financial obligations.

- For exemptions in Industry and Commerce Tax in Mede-

llín, 2020 tax savings were of \$510 million pesos (COP).

- For exemptions in income tax, by holding the non-profit organization title, savings in 2020 were of \$6.752 million pesos (COP).

The UPB was classified as a Large Taxpayer

The Universidad Pontificia Bolivariana was classified by DIAN (Colombian Tax and Customs Organization for its acronym in Spanish), through Resolution 9061 from December 10, 2020, as a Large Taxpayer, obligation that took effect on January 1, 2021. The condition implies compliance with the special schedules for tax returns and tax information presentation assigned to this category of taxpayers and that are established by the DIAN. Additionally, the obligations of Tax Withholding and in VAT to suppliers considering the tax situation of each one of them, so it is important to know and update the University supplier's information so that they are aware for the purpose of the negotiations that will be carried out during this year with the Institution.

The Universidad Pontificia Bolivariana was classified by DIAN (Colombian Tax and Customs Organization for its acronym in Spanish), though Resolution 9061 from December 10, 2020, as a Large Taxpayer, obligation that takes effect on January 1, 2021.

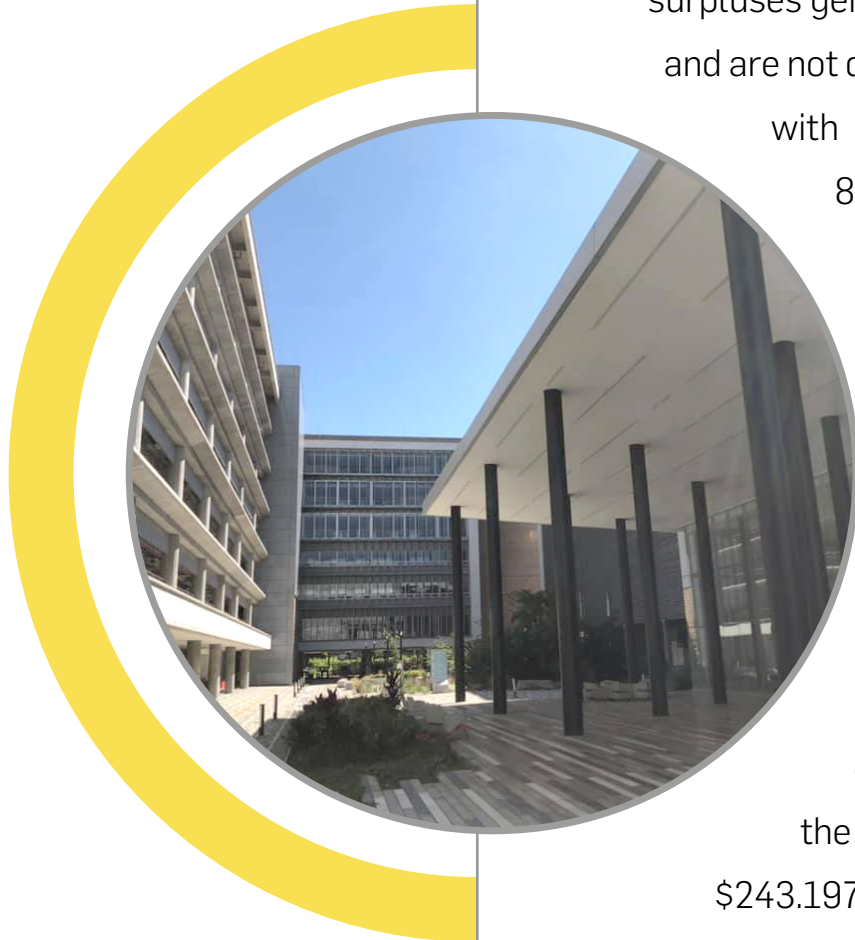


Photo courtesy of José Tamayo

GRI 201-1

Direct economic value produced and distributed.

The income generated by the University in 2019, allowed to cover the distribution, or costs and expenses, which derived a surplus of \$28.133 million pesos (COP) equivalent to 5.94% over the income value, this surplus will be intended as a contribution to next period's expansion and development projects (to attend investments in human development, and physical and technological infrastructures).

Generated value = operating and non-operating income: \$473.428 million pesos (COP).

Distributed value = Payroll + taxes + debt service + investment in community + others: \$445.295 million pesos (COP).

Generated value - distributed value = Retained value \$28.133 million pesos (COP).



Derechos humanos y paz

GRI 102-41 PG3

The Universidad Pontificia Bolivariana acknowledges the rights of employees to freedom of collective bargaining, including the right to freely form or join trade unions. The University has a union called "SintraUPB" composed by a minority group of employees. The organization allows representatives to act independently with no interference and reasonable access to information and resources. This creates an adequate work climate and guarantees the dialogue and effective negotiation between the parties.

The UPB participates in four of the nine projects approved by the RUCC (Colombian Catholic Universities Network for its acronym in Spanish).



Photo courtesy of José Tamayo

PG 1 PG2

Human Rights

The Universidad Pontificia Bolivariana is committed with actions to contribute to the protection, respect, and promotion of human rights.

Through education, social projection, and the integration of rights in all functions and internal processes.

The UPB supports and respects human rights through its activities:

- Effective health and safety procedures.
- Safe and healthy working conditions.
- Trained employees to respond to emergencies in the workplace; available first aid kits and fire extinguishers; clearly marked and unobstructed emergency exits.
- In addition, academic research and outreach activities are developed such as:
 - » Human Rights Seedbed in Bucaramanga Campus that establishes an academic and research space about human rights in Colombia and their citizens' demands, so that students and professors undertake studies about social, political, economic, and cultural problematics of the country.
 - » Culture and Human Rights Study group whose mission is the outreach, education, and research about social processes of contemporary and ancient societies around culture and human rights topics.



School on the map: a platform to draw attention to school media.

The Universidad Pontificia Bolivariana is committed with actions to contribute to the protection, respect, and promotion of human rights.

PG4

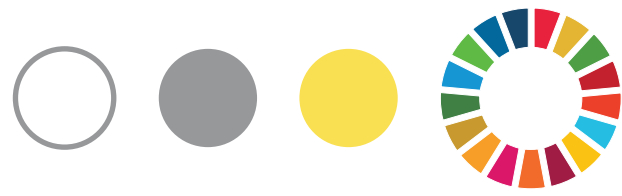
Labor practices

The University counts with all necessary measures to ensure the no participation, in any way, of forced labor or servitude, thereby, signs transparent and fair employment agreements with all employees, in addition to ensuring the following:

- Employees may give notice and leave their employment within a reasonable period.
- The University ensures not to make deductions from salaries due to disciplinary measures or other deductions not authorized by Colombian regulations.
- Overtime hours are not mandatory, through threat of deductions, termination of contract, or others.
- The UPB makes sure not to retain identity documents, passports, travel documents or other personal items, without which employees cannot leave their job.



Why is there fear or rejection towards those who have suffered or work with COVID-19?



"It has been an amazing experience to be in the University classrooms again, I went back to my time of youth and school desk"

(Beatriz Rosales Rojas, Casa de la Felicidad student)

"No Escampa", a one-hundred-word text allowed me to meet Queen Letizia and receive from her hands the Accésit prize in Spanish Language".

(Óscar Gómez Gómez, Graduate from the Faculty of Advertising).

PG5

Child labor

All necessary measures are in place to not hire personnel who do not meet with the minimum working age according to what the national legislation requires, to guarantee their human development, their basic right to education, and their dignity. Furthermore, the institution has reliable procedures to confirm the age of the young candidates and has in detail the job duties that can be carried out safely.

UPB 18

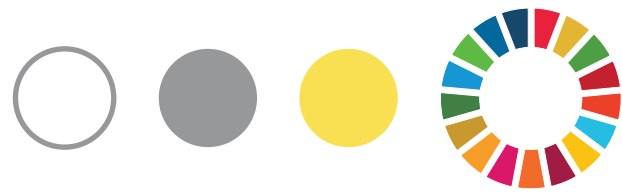
Social Initiatives

The Social Projection Macro-process, oversees the University social responsibility, oriented to both education and solidarity social projection, as well as the care of human life and our common home as mandates for the University. The culture, sustainability, relationship with graduates, institutional well-being, and solidarity evangelization processes are highlighted here.

"I decided to study in UPB because of its comprehensive programs and academic quality, also because it is important to continually seek learning and nurture the knowledge acquired at all times."

(Alfredo Sánchez, Continuing Education Student).





Educational and solidarity projection



FUNDACIÓN SOLIDARIA (Solidarity Foundation)
FUNDACIÓN MILAGROS DE VIDA (Miracles of Life Foundation)

16 scholarships options for higher education

4 Economic stimulus contests

3 Programs for the newborn and their families

5 "Plan camino a casa" modules

Food, transportation, and funeral aid
Delivery of items for baby care
Foster home



GRADUATES

1.500 graduates participated in Multicampus events

1.443 in Continuing Education

138 CDE Entrepreneurs

55 Radio programs

97.898 social network followers

PROYECTION

200 UPB Leaders

50 "Samaritanos UPB" beneficiaries

3 projects UPB Leaders

5 Virtual Easter meetings

10 Meetings on interinstitutional network

1 Christmas concert

Pastoral education virtual meetings



EVANGELIZATION

236 Attendees to reflection meetings

45 Innovation for the soul meeting

Mental health audiovisual accompaniment

4 Communication channels for evangelizing in pandemic times

3 Marian meetings



FAMILY CENTER

20 Multicampus courses

82 Students from Putumayo

36 "Pensemos en familia" Radio programs

50 "Cuidado de la mente en familia" Family programs





Project: digital content for apps ecosystem at the service of teaching and learning processes in the Urabá, Antioquia region. Professors of Urabá connected by the UPB

GRI 203-2

Externalities in UPB

The calculation of externalities in the UPB seeks to identify the effects that represent costs and benefits that society involuntarily assumes for the activities performed at the University.

Carbon dioxide fixation in Multicampus UPB green areas

The public and green space conservation activities are intended to account for biodiversity preservation at the University, classifying it as a beneficial externality for society.

The following must be considered for its calculation: the green area in hectares of the University and the inventory of tree species to calculate carbon fixation.

- 363,61 t/CO₂eq captured by the Main Campus green areas (Including all land located in the Department of Antioquia).
- 71,58 t/CO₂eq captured by the Bucaramanga Campus green areas.
- 112,03 t/CO₂eq captured by the Montería Campus green areas (Including all land located in the Department of Córdoba).
- 41,22 t/CO₂eq captured by the Palmira Campus green areas (Including all land located in the Department of Valle del Cauca).

All Campuses of the national UPB green areas captured a total of 588,44 ton/CO₂, which represented an indirect social benefit of \$127.541.376 (COP).

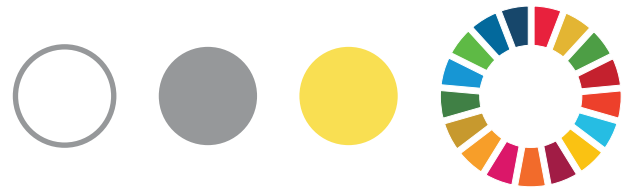
2. US Department of Energy. Method for Calculating Carbon Sequestration by Trees in Urban and Suburban Settings. 1998. (<https://www3.epa.gov/climatechange/Downloads/method-calculating-carbon-equestration-trees-urban-and-suburban-settings.pdf>.) (As a reference, a total of \$3.495,90 COP exchange per Dollar is taken as reference, this corresponds to December 29, 2020).

All Campuses of the national UPB green areas captured a total of 588,44 ton/CO₂, which represented an indirect social benefit of **\$127.541.376 (COP).**



SDG 17 Partnerships to achieve the goals





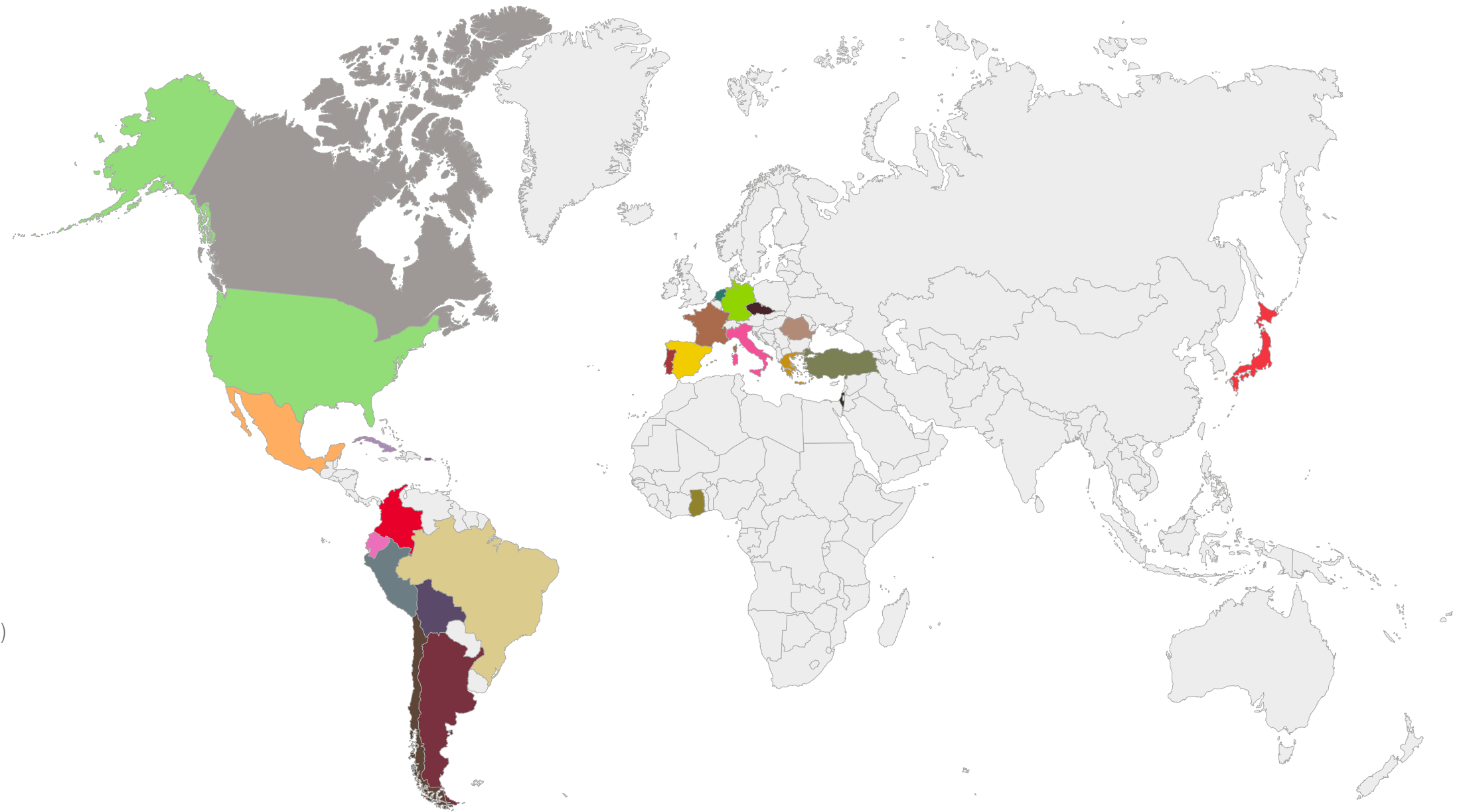
UPB 19 GRI 102-12 GRI 102-13

91 INTERNATIONAL AGREEMENTS:

- Spain (18)
- Mexico (12)
- Germany (10)
- Brazil (8)
- France (7)
- Chile (4)
- Argentina (4)
- United States (3)
- Italy (3)
- Peru (3)
- Japan (3)
- Ecuador (2)
- Canada (1)
- Cuba (1)
- Puerto Rico (1)
- Bolivia (1)
- Portugal (1)
- Netherlands (1)
- Czech Republic (1)
- Romania (1)
- Turkey (1)
- Israel (1)
- Greece (1)
- Ghana (1)

18 NATIONAL AGREEMENTS:

- Colombia (18)



National and international agreements, and the affiliation to associations. Alejandro Taborda Testimony – UPB Aeronautical Engineering student.



From UPB to Canada: My experience.



Citizen voices for healthy air.

"I came to UPB Bucaramanga because I heard a lot about the city and its people. I am interested on learning more every day. The reception was very good, the course registration was very easy, and the Office for International Studies and course directors helped me a lot. The University environments are very comfortable to receive theoretical classes and to carry out laboratories".

(Rolando Flores -Perú-, International Exchange semester, Bucaramanga).

UPB 20

Social impact

The Urban Communication Research Group (GICU, for its acronym in Spanish) which is part of the UPB's Faculty of Social Communication and Journalism, presented the results and passbook of the "Voces Ciudadanas por un aire saludable" (Citizen Voices for Healthy Air) research, to achieve an active participation of the different involved actors in the problematic. The presentation was done virtually with professors from research groups, the participation of citizens, and government institutions. Some of the highlighted proposals from this research in relation to daily life and that enable sustainability and air quality improvement in the region are:

- The exponential and regular use of sustainable mobility methods such as bicycle travel, public transportation, metro, or walking.
- Promote material recycling that can still be used and verify the locations for final disposal of waste.
- Creation of spaces in which culture and the civic agenda encourage participation and awareness on this issue; educational, close, simple, applicable, and continuous campaigns are suggested with social objectives, and not just to disclose the measures adopted by authorities.



Experts led by UPB accompany modeling on COVID-19.



UPB integrates a network of laboratories that strengthens capacities in the face of the health crisis.



UPB 21

Social impact measuring

Through the sustainability strategy, the University has put together an interdisciplinary team of social impact as a strategic resource seeking for programs, projects, and research projects to aim their efforts to the common interest of developing SDGs with the identification, measurement, interpretation, and strengthening of the social impacts generated from the different macro-processes, enabling the UPB social impacts to be clearly demonstrated to protocols, national measurement systems, metrics, and international methodologies.

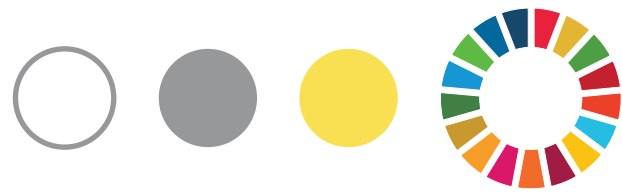
In 2020, 12 social impact indicators were defined for the measurement, interpretation, and strengthening of the research projects registered in the CIDI (Research Center for Development and Innovation for its acronym in Spanish), in which a rigorous prioritization exercise was made between more than one thousand projects of the 5 focus areas of the University.



"I chose the Universidad Pontificia Bolivariana because not only offers a professional education, but also personal education, in other words, it is a comprehensive education"

(Rubén Ruíz Hernández, intern from Benemérita Universidad Autónoma de Puebla-México).

- Sustainable Development Goals (SDGs)
- Organization for Economic Co-operation and Development (OCDE)
- Global Reporting Initiative
- Minciencias - MGA
- ISDP - Institutional Strategic Development Plan 2020 - 2022



UPB collaboratively researches with the G8+1 Universities.



The UPB joins the "CEOs Taking Action" initiative from Global Compact.



Juan Carlos Zapata Valencia, Universidad Pontificia Bolivariana Multicampus Strategic Planning Director

Institutional Strategic Development Plan 2020 – 2022 "INNOVATIVE AND SUSTAINABLE UPB"

A Teaching University with emphasis in research and innovation

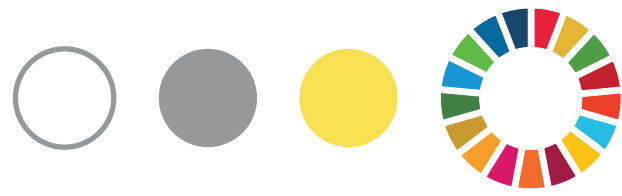
In 2020, the new Institutional Strategic Development Plan came into effect considering the guidelines from the Great Chancellor, prospective and institutional context studies, and the improvement plan that arose from the Multicampus Institutional Self-Assessment process, moreover, it also has a frame of reference built from the National Development Plan, the 10-Year Education Plan, Sustainable Development Goals, and Ministry of National Education of Colombia Decree 1330 from 2019.

Generic Strategy

Consolidating the UPB as a Teaching Institution with emphasis in research and innovation, with an integrated pedagogical model centered in learning with recognized research to generate and transfer meaningful knowledge, in other words, an institution with an innovative and sustainable organization, competent and competitive nationally and internationally for social and human transformation on values of Christian Humanism and Bolivarian ideals.



UPB Statistics



Strategic lines

Institutional identity

Strengthens the identity from the development of human capacities and competencies, which inspires and orients its actions in its purpose of social and human transformation.

Comprehensive education

It achieves the development of the human being based on values and principles from the Christian Humanism, life dimensions, ethics and aesthetics, scientific education with autonomous, reflexive, and critical thinking, for the integration of the citizen with the world.

Value creation and Social impact

It generates, applies, transfers, and appropriates scientific and social knowledge in a co-creative way with diverse actors, for the effective contribution to context problem solving from a local to a global setting.

Sustainability

It guarantees the institutional performance based on governance and stakeholders value expectations in the economic, social, environmental areas, and institutional continuity through a management based on the principles of a smart and original organization.



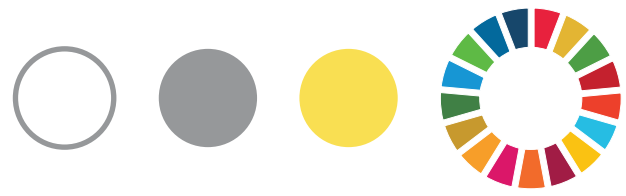
Bucaramanga Campus President
Fr., STL. Gustavo Méndez Paredes

Montería Campus President
Fr., M.Sc. Jorge Alonso Bedoya Vásquez

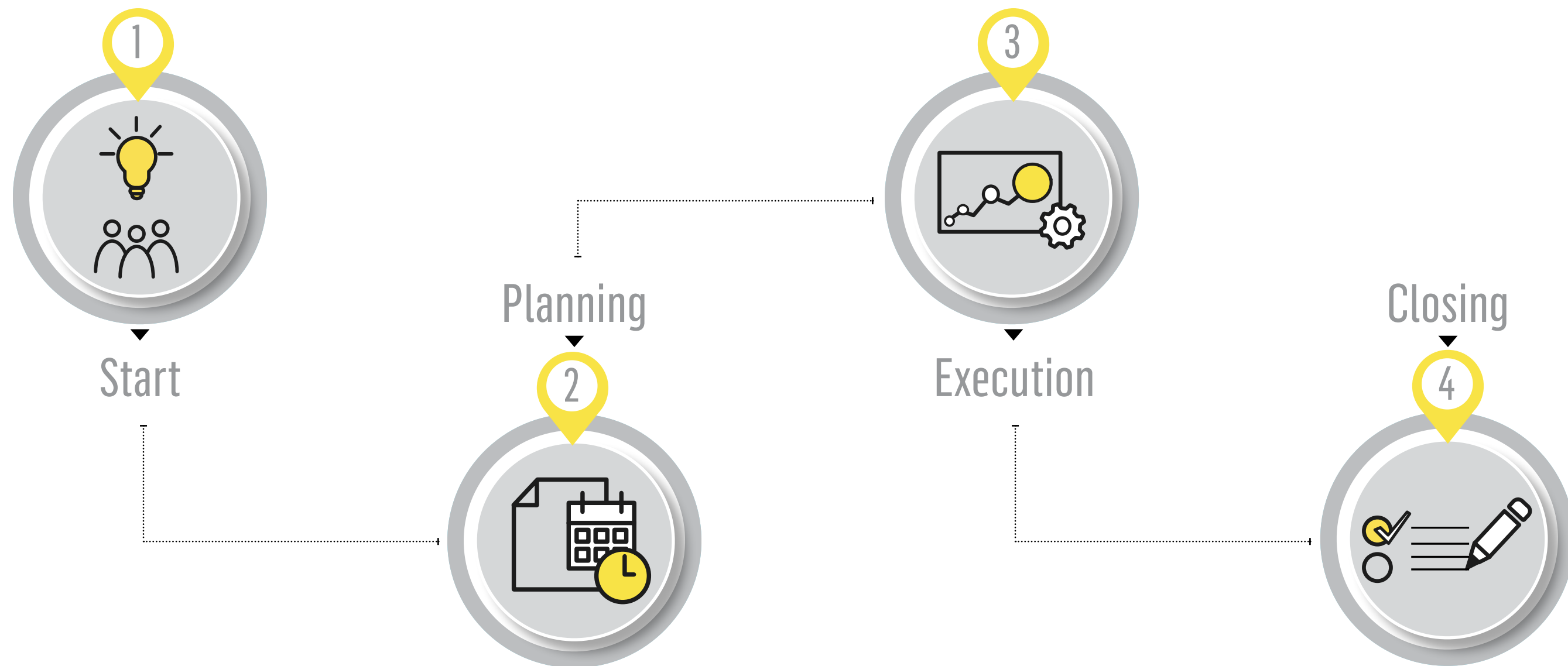
Palmira Campus President
Fr., M.Sc. Raúl Jordán Balanta

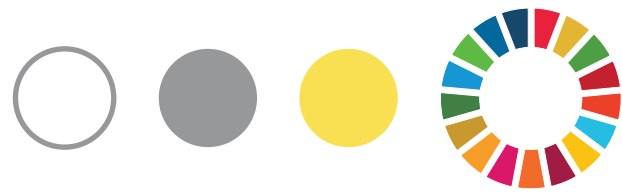
The entire University management has been translated to “Planes Operativos Anuales -POA-” (Annual Operative Plans for its acronym in Spanish), to allow the measurement of the impact of our activities.

The Institutional Strategic Development Plan is project-oriented to ensure its compliance. Therefore, 16 projects were developed from which five have been prioritized for their development in 2020 and 2021. For this purpose, a Project Management Office (PMO) was created; this unit centralizes, establishes, advises, and controls the methodological guidelines and some functions related to project, programs, and portfolio management with the aim of generating value for the University.



Project management methodology



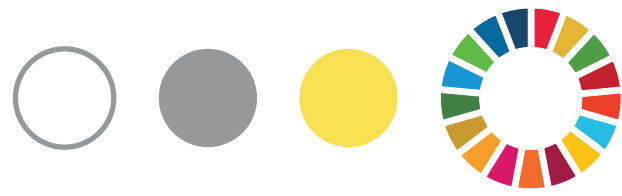


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Advisor to the Vice-Chancellor's Office for Administrative and Economic Affairs: Ph.D. Mayra Lucía Vieira Cano

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Montería University Well-being Center Head: PgD. Luz Angélica Doria Álvarez

Palmira Campus Teaching and Research: M.Sc. Jimmy Jailer Quintero Valderrama

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Palmira Campus Social Projection and Sustainability Strategy Director: Fr., STL. Gustavo Isaza Escobar

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Multicampus Strategic Planning Director: Ph.D. Juan Carlos Zapata Valencia

Main Campus Administrative Director: M.Sc. Claudia María Mejía Montoya

Sustainability Strategy Multicampus Coordinator: M.Sc. Ana María Osorio Flórez

Líder Estrategia de Sostenibilidad Sede Central: M.Sc. Carlos Ernesto Bustamante Moreno

Líder Estrategia de Sostenibilidad Seccional Bucaramanga: I.A Edwin Enrique Arciniegas Díaz

Líder Estrategia de Sostenibilidad Seccional Montería: PgD. Vanessa de la Torre Mendoza

Sustainability Professional: PgD. Isabel Cristina Rendón Vanegas

Sustainability Professional: M.Sc. Luisa Fernanda Úsuga Montoya

Sustainability Professional: M.Sc. Jhon Alexander Chalarca Zapata

Special Projects Coordinator: M.Sc. José Julián Aguirre Vélez

Environmental Studies Research Group Coordinator: Ph.D. Mariluz Betancur Vélez

Leader of the GIA line of efficient use and quality of water: M.Sc. José Adrián Ríos Arango

Environmental Studies Research Group Researcher: M.Sc. Cindy Natalia Arenas Echeverri

Water, Food, and Territory Focus Area Multicampus Leader: Ph.D. Paula Andrea Zapata Ramírez

Health Focus Area Multicampus Leader: Ph.D. Lina Andrea Gutiérrez Builes

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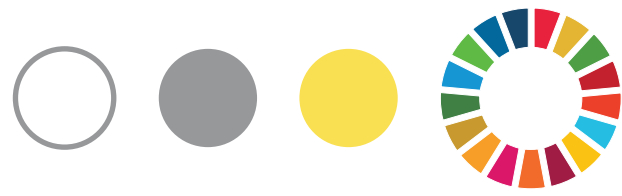
Information and Communications Technologies Focus Area Multicampus Leader: Ph.D. Leonardo Betancur Agudelo

Humanization and Culture Focus Area Multicampus Leader: Ph.D. Freddy Santamaría Velasco

Design and Layout: M.Sc. Laura Durango Quiceno

Photography support: Communications and Public Relations Office and Jorge Iván Atehortúa Posada

Style Editing: M.Sc. Juan Carlos Rodas Montoya and Ph.D. Porfirio de Jesús Cardona Restrepo



Main Campus

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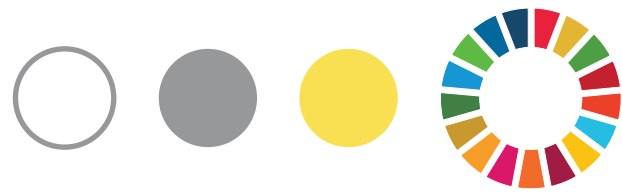
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Dean of the School of Law: PgD. Jairo Alfonso Lora Villa

GRI 102-50 -GRI 102-51 This Sustainability Report accounts for the activities and processes carried out during 2020 and sets out challenges framed in the consolidation and growth of the mission areas of the institution and publishes the introduction of the Multicampus UPB strategic labor. The last report was handed over to stakeholders during the first trimester of 2019. **GRI 102-52-52** This report is considered from the organizational strategy and it will be carried out in annual cycles, **GRI 102-54** has been prepared in accordance with standards GRI: essential option and **GRI 102-56** does not have an external verification, but explicitly shows the institution contribution to the Sustainable Development Goals and the Global Compact.

Point of contact for questions about the report

GRI 102-53 From Sustainable UPB strategy the e-mail upbsostenible@upb.edu.co has been established as the main communication channel with its interest groups, in which it is possible to go in depth about the Sustainability Report and its contents. Additionally, the sustainability office is in Building 9-216.



For more information visit our Sustainable UPB microsite:
<https://www.upb.edu.co/es/proyeccion-social/sostenibilidad>



Once again, a special thanks to the entire University community of the national UPB for the dedication to their work, their commitment to teamwork, and the full compliance of individual and collective responsibilities. Through joint efforts, we keep building the University and making its existence possible now, and surely forever.

Fr. Julio Jairo Ceballos Sepúlveda, Universidad Pontificia Bolivariana General President.

Point of contact for questions about the report:

GRI 102-53

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*Each step is an achievement,
each achievement reinforces
*our commitment!**



**Universidad
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Bolivariana**

**MULTICAMPUS HIGH QUALITY
Institutional Accreditation**
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