



PONTIFICIA
UNIVERSIDAD
CATÓLICA DE
VALPARAÍSO



SUSTAINABILITY REPORT PUCV 2019



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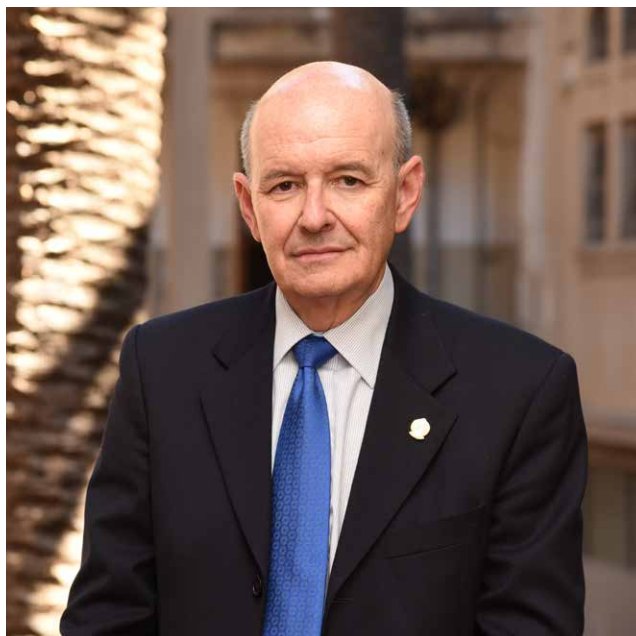
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MESSAGE FROM THE RECTOR



I am pleased to present the Sustainability Report 2019, the thirteenth published by our University. This report describes the main advances in economic, social and environmental matters, in accordance with the Institutional Strategic Development Plan and in accordance with the guidelines of the Global Reporting Initiative.

During the last quarter of 2019, one of the biggest social crises of recent decades took place in Chile, which provoked deep reflection in our university community. More than 2,300 people participated in the “PUCV Thinks About Chile” (La PUCV Piensa Chile) meetings, which reinforced our conviction to continue contributing to the construction of a more just, equitable and supportive country.

The University put people’s safety first, so it was faced with the challenge of closing the semester virtually. This requires significant effort, but also allowed the institution to become better prepared for a virtual world and maintain the quality of our student’s education.

In the area of “A University that projects its identity”, in 2019, two significant activities were carried out in the context of the Chair of Institutional Identity, in which members from the entire university community participated. The first activity was the conference “Testimony of a Catholic Scholar”, given by the academic Joseph Ramos Quiñones and the second was a day of reflection titled “The Identity of our University”, organized by the Vice-Chancellor of Development, in conjunction with the Ecclesiastical Faculty of Theology. In addition, a number of activities were carried out within the framework of institutional identity, developed by the academic units and faculties.

Regarding the strategic guideline “a University that generates knowledge” in 2019, the PUCV achieved a total of 97 projects awarded with national and international external funding. These figures continue to consolidate our university among the best in Chile in the field of research. In this sense, the 57 FONDECYT projects awarded in this year place the University first at the regional level and fourth at the national level. Of these projects, 44 respond to the Sustainable Development Goals (SDG) and 44% of them to the goal of Quality Education.

A further highlight was the adjudication of the CONICYT’s Ring Project on Science and Technology “Ecological Intensification: Integrating Knowledge of Ecosystem Services to Promote Sustainable Agriculture in Chile”. The initiative, led by the School of Agronomy, was chosen from a total of 200 nominations in 2019 and is a transformative impetus for sustainable agriculture.

In conjunction with the above, the PUCV continues to support the development of research with its own resources, providing funding of more than \$1.040 million in 2019 and reaching a total of 268 projects, far exceeding the 95 initiatives developed in 2018 with internal financing.

Within the PUCV, 12 Associate or Interdisciplinary Research Nodes were created, with the aim of promoting the generation of scientific-technological knowledge linked to relevant topics of high national and global impact. The Research Nodes are composed of academics of excellence and PUCV undergraduate and postgraduate students, who develop studies in the areas of

Science, Technology, Social Sciences and Humanities, promoting networks of collaboration with teams of national and international researchers.

Research productivity increased from 681 WOS publications in 2018 to 712 in 2019. As for the impact of these publications, 74% corresponded to the Q1 and Q2 quartiles, representing an increase in appearance in magazines that receive a greater number of citations.

With regard to the areas of innovation and entrepreneurship, in 2019 the University was awarded a total of 35 innovation projects with external funding, exceeding the 24 projects from the previous period. In this way, the University facilitates the development of initiatives and programs that contribute to sustainable development.

In relation to the guideline "A University that shapes people with a vocation of service to society", a key milestone in 2019 was the work carried out to update the Institutional Educational Model, with the aim of adapting student's training to the demands of today's society. In the process, a study commission was created, national and international experiences reviewed, and previous institutional experience was analysed.

Challenged by the complexity of an environment that demands greater flexibility and interdisciplinary work on a daily basis to meet the needs of society, the PUCV joined the trend of prestigious higher education institutions in the country and the world with the initiative of Undergraduate Minors. In 2019, the pilot plan for this certification was launched, which deepens and complements the academic training of students, under a specific thematic line.

In addition, our House of Studies continuously reviews and improves its curriculum, incorporating constant modifications according to the quality, importance and relevance required for the training of professionals today and in the future. As an example, the engineering degree in statistics was created during this period; the medical technology and electronic engineering curricula were changed and the curricula for the civil engineering and civil mechanical engineering degrees were updated.

In 2019, 85% of PUCV students received some form of financial support or assistance, whether in terms of not having to pay fees, or by receiving scholarships, exemptions and/or educational loans. The benefit of free education allowed access to higher education to a total of 8,178 students located between the first and sixth decile of socioeconomic income. Along with the above, 68% of students received a maintenance scholarship through university or state support programs.

In terms of the guideline "A Quality and Sustainable University" with a history of more than 45 years since its emergence, the PUCV Staff Welfare System, funds a set of benefits that by 2019 reached an annual reimbursement of 392 million pesos. Among the supports provided, the "1+1 System" is noteworthy as it is the mechanism by which the University financially complements the equivalent of the monthly economic contribution made by its members.

Another highly valued benefit is the financing of 100% of the annual undergraduate fees for children of the University's

academic, administration and service staff for the entire period of the chosen career. In 2019, this benefitted the families of 138 workers, with an associated amount of \$498 million supporting the education of 162 daughters and sons.

In 2019, a total of 43 new teachers joined the PUCV, 65% of them with doctoral degrees. With regard to diversity-related indicators, female participation reached 51% in the administration and services area, surpassing 49% in 2018. The same increase is seen in the academic area, with a 38% to 39% increase in female participation.

As part of the University's commitment to the quality of its training, from 2019 curricula committees have been formed in all academic units. These advisory bodies aim to strengthen aspects of self-regulation, improve teaching-learning processes and provide feedback on undergraduate curricula.

Infrastructure continues to advance and among the most outstanding projects are the completion of the building of the School of Psychology on the Sausalito Campus; pilot works in the new Civil Engineering and Construction Engineering building on the Brazil Campus; the start of works of the new Ocean Sciences building on the Curauma Campus; and the School of Business and Economics at the Recreo Campus.

Finally, in the guideline of "A University that connects" the PUCV made significant progress in strengthening the management of this function, with the implementation of the Public Relations System through an online platform that seeks to support the different units in the process of planning, recording and evaluating the activities carried out.

In 2019, a total of 4,303 activities were recorded in the Public Relations System, with the participation of 490,497 people.

A further highlight of the year was the adjudication of a project financed by the Ministry of Education, which will strengthen sustainability management through the development of institutional capacities and their implementation in impact initiatives in the city of Valparaíso. This initiative, led by the General Direction of Public Relations, seeks to consolidate a social action programme with organizations in Valparaíso; enhance sustainable campus management with the implementation of environmental standards; and strengthen training in this topic for students, academics and officials. In this way, we will strengthen our contribution to the United Nations Sustainable Development Goals.

Aware of the challenges ahead, as a result of the social crisis, and aggravated by the pandemic that currently affects us, I reiterate our commitment to continue to advance the task of building a more sustainable university and society.

01

THE UNIVERSITY

This Sustainability Report, which discloses the institutional performance of 2019, is framed within the context of the social crisis in the country, which began in October of that year.

The social demands that emerged strongly led to a deep reflection on the part of the university community and to reaffirm the Institution's commitment to building a more just, equitable and supportive country.

This commitment has been maintained in its 91-year history, a period in which it has realized the dream of its founders: to provide a training of excellence for all young people, especially for the most vulnerable in Chilean society.

The University has one of the most comprehensive and wide-ranging benefit systems for its students, which involves allocating a significant amount of its own resources so that its students do not drop out of school because of economic problems.

Since its founding on 25 March 1928, the Pontifical Catholic University of Valparaiso has distinguished itself by its public vocation and a recognized seal of excellence, manifested in its leadership position in the context of Higher Education, by integrating the select group of Chilean universities with six years of accreditation in all its areas of development: undergraduate and postgraduate teaching, research, institutional management and public relations. PUCV students stand out for their diversity, as they come from different socioeconomic realities. About 40% are from other regions, to which is added the international exchange that

delivers a marked multicultural perspective to its teaching.

The House of Studies maintains a fluid connection with the regional, national and international environment, through multiple initiatives that reflect institutional identity and commitment to society. These include cultural artistic activities that bring culture closer to the community and its own students; as well as activities developed with the most vulnerable people in society and which contribute to improving their quality of life and well-being.

Reflecting its commitment to transparency, the University is a pioneer within the country's universities to have a Sustainability Policy and the consecutive publication of its Sustainability Report since 2009. This report, in its eleventh edition, is a monitoring and accountability instrument open to the university community and the environment in which the institution operates.



MISSION

The mission of the university is, in the light of faith, to cultivate science, art, and skill through the creation and communication of knowledge, through the formation of graduates and professionals with a vocation for serving society, and through the hallmark values of the Teachings of the Church.

In exercising its Mission, the university guarantees its members academic freedom and fully supports equal opportunity for students to access its classrooms.

VISION

A Catholic university nationally and internationally recognized for its academic quality, that projects itself into the world, while respecting its identity rooted in Valparaíso; continuously grows; and that demonstrates excellence through the results of its educational processes.

The university manifests an attitude of responsibility towards society through rigorous and innovative actions and a fluid connection with the regional, national and international spheres.

Graduates from the PUCV possess its institutional hallmark values, which include recognized competence in professional performance, constant attention towards maintaining their education at the leading edge, and their ability to take on tasks in different areas and cultures.

VALUES

The vision that the University has of humanity as well as its mission, is also reflected in its adherence to values that permeate the coexistence of the university community and which contribute to the identification of its members with institutional activities.

In the heart of the university, there is a concern for its people, and as a consequence, a value for participation, autonomy, diversity and solidarity.



THE PUCV IN NUMBERS

ACADEMIC OFFERING 2019

62 Undergraduate programs

32 Masters

48 Postgraduate programs

7 Postgraduate titles

16 Doctorates

108 Diplomas

ENROLMENT 2019

ENROLMENT 2019	FEMALES	MALES	TOTAL
First year undergraduate students	1.670	2.218	3.888
Total undergraduate students	6.859	9.384	16.243
Total postgraduate students	665	972	1.637
Doctoral students	175	195	370
Masters students	490	777	1.237

STAFF 2019

STAFF 2019	FEMALES	MALES	TOTAL
Academic staff	550	877	1.427
Administrative and Service staff	658	634	1.292

OTHER INDICATORS 2019

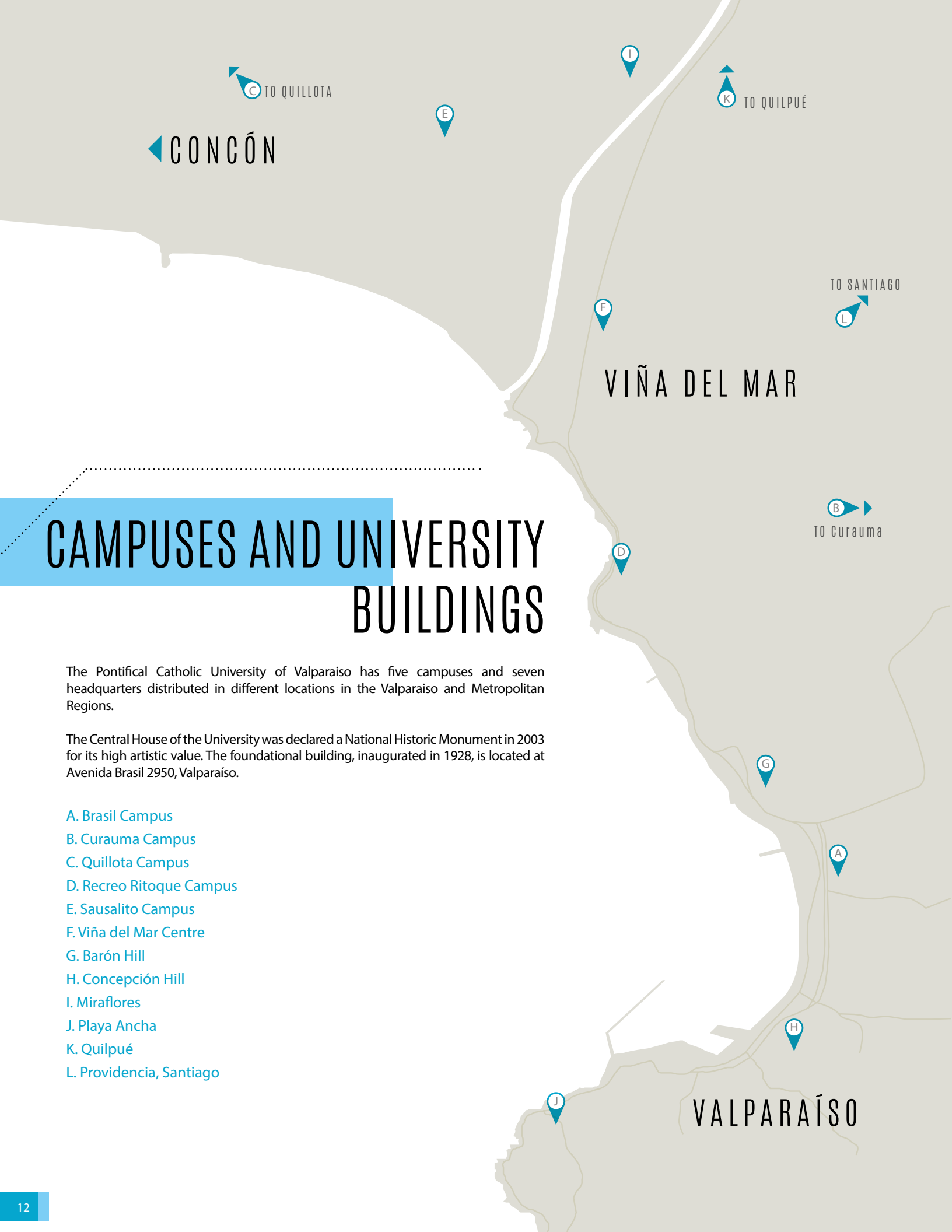
808 International students in the PUCV

194 PUCV students on exchange

712 ISI WOS publications

57 FONDECYT projects awarded





CAMPUSES AND UNIVERSITY BUILDINGS

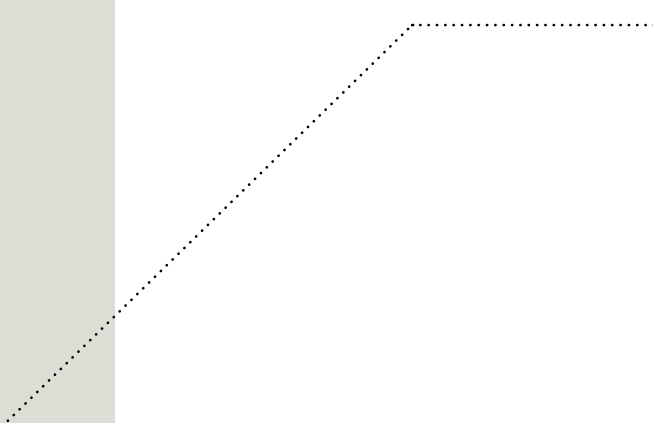
The Pontifical Catholic University of Valparaíso has five campuses and seven headquarters distributed in different locations in the Valparaíso and Metropolitan Regions.

The Central House of the University was declared a National Historic Monument in 2003 for its high artistic value. The foundational building, inaugurated in 1928, is located at Avenida Brasil 2950, Valparaíso.

- A. Brasil Campus
- B. Curauma Campus
- C. Quillota Campus
- D. Recreo Ritoque Campus
- E. Sausalito Campus
- F. Viña del Mar Centre
- G. Barón Hill
- H. Concepción Hill
- I. Miraflores
- J. Playa Ancha
- K. Quilpué
- L. Providencia, Santiago

FACULTIES AND ACADEMIC UNITS

PUCV consists of 9 Faculties and 34 academic units.



- FACULTY OF ARCHITECTURE AND URBAN DESIGN
 - School of Architecture and Design
 - Institute of Art

- FACULTY OF SCIENCE
 - School of Kinesiology
 - Bachelor of Science Program
 - Medical Technology Program
 - Institute of Biology
 - Institute of Statistics
 - Institute of Physics
 - Institute of Mathematics
 - Institute of Chemistry

- FACULTY OF AGRONOMY AND FOOD SCIENCES
 - School of Agronomy
 - School of Food Sciences

- FACULTY OF OCEAN SCIENCES AND GEOGRAPHY
 - School of Ocean Sciences
 - Institute of Geography

- FACULTY OF ECONOMIC AND ADMINISTRATIVE SCIENCES
 - School of Business
 - School of Business and Economics
 - School of Social Work
 - School of Journalism

- FACULTY OF LAW
 - School of Law

- FACULTY OF PHILOSOPHY AND EDUCATION
 - School of Pedagogy
 - School of Physical Education
 - School of Psychology
 - Institute of Philosophy
 - Institute of History
 - Institute of Literature and Language Sciences
 - Institute of Music

- FACULTY OF ENGINEERING
 - School of Civil Engineering
 - School of Biochemical Engineering
 - School of Electrical Engineering
 - School of Computer Sciences
 - School of Construction Engineering
 - School of Industrial Engineering
 - School of Transportation Engineering
 - School of Mechanical Engineering
 - School of Chemical Engineering

- ECCLESIASTICAL FACULTY OF THEOLOGY
 - Institute of Religious Sciences
 - Bachelor of Theology Program

UNIVERSITY GOVERNANCE

The Pontifical Catholic University of Valparaiso is defined as a legal entity under public law in accordance with Chilean law and a public legal entity in the Catholic Church. It is also an autonomous university of the State and receives funding from it, so it is subject to internal control as well as control from the Ministry of Education.

It has a system of government based on a distribution of responsibilities, which ensures the participation of various instances in decision-making. This way of organizing and structuring institutional management acts as an element of quality, as it avoids the application of unilateral criteria and promotes the adoption of decisions capable of integrating diverse opinions and wills.

According to the General Statutes of the University and its respective Rules of Procedure, the governance structure consists of individual and collegiate authorities, who are responsible for conducting, caring

for and projecting the development of the Institution according to its mission and strategic objectives.

The highest authority of the University is the Grand Chancellor, who is the Bishop of the Diocese of Valparaiso, while the Rector is the authority of the higher government and the administration of the Institution. In addition, the individual authorities are the Grand Chancellor, the Vice Grand Chancellor, the Rector, Vice-Rectors, the Secretary-General, the controller, deans and directors of academic units and directors of centres.

The collegiate authorities who support the management of the institution consist of the University Senate, Academic Chapter, Superior Council, Faculty Councils and Councils of the Academic Units.

SUPERIOR COUNCIL AND COMMITTEES

The Superior Council is the highest collegiate authority of the University, responsible for deciding on the general development policy of the Institution and on the instruments that ensure its compliance.

The Council is led by the Rector, and includes the Deans of each faculty, three advisors designated by the Grand Chancellor, an academic from each Faculty which is made up of four or more Academic Units and two student representatives, all with the right to speak in the Council sessions. Vice-Rectors and General Directors, are permanent, invited guests to the Council.

The Superior Council has four standing committees, responsible for overseeing the state of strategic affairs in various areas of institutional work:

ACADEMIC AFFAIRS COMMITTEE

Composed of the Dean of the Faculty of Marine Sciences and Geography, the Advisor of the Faculty of Philosophy and Education, the Advisor of the Faculty of Sciences and an Advisor appointed by the Grand Chancellor.

ECONOMIC AND ADMINISTRATIVE AFFAIRS COMMITTEE

Composed of the Dean of the Faculty of Engineering, the Dean of the Faculty of Economics and Administrative Sciences, the Dean of the Faculty of Agricultural and Food Sciences and the Dean of the Faculty of Sciences.

REGULATORY AFFAIRS COMMITTEE

Composed of the Dean of the Law Faculty, the Dean of the Ecclesiastical Faculty of Theology, a counsellor appointed by the Grand Chancellor and a student representative.

DEVELOPMENT COMMITTEE

Composed of the Dean of the Faculty of Architecture and Urban Design, the Dean of the Faculty of Philosophy and Education, counsellor of the Faculty of Engineering, a counsellor appointed by the Grand Chancellor and a student representative.





UNIVERSITY SENATE

The University Senate is an organ that embodies the value that the Institution gives to participation, because it brings together the university community to receive the annual account from the Rector and expresses their opinion on matters of a university nature.

The University Senate, which sits once a year, consists of hierarchical professors, student representatives in Faculty Councils, student representatives on the Higher Council and the President of the Student Federation.



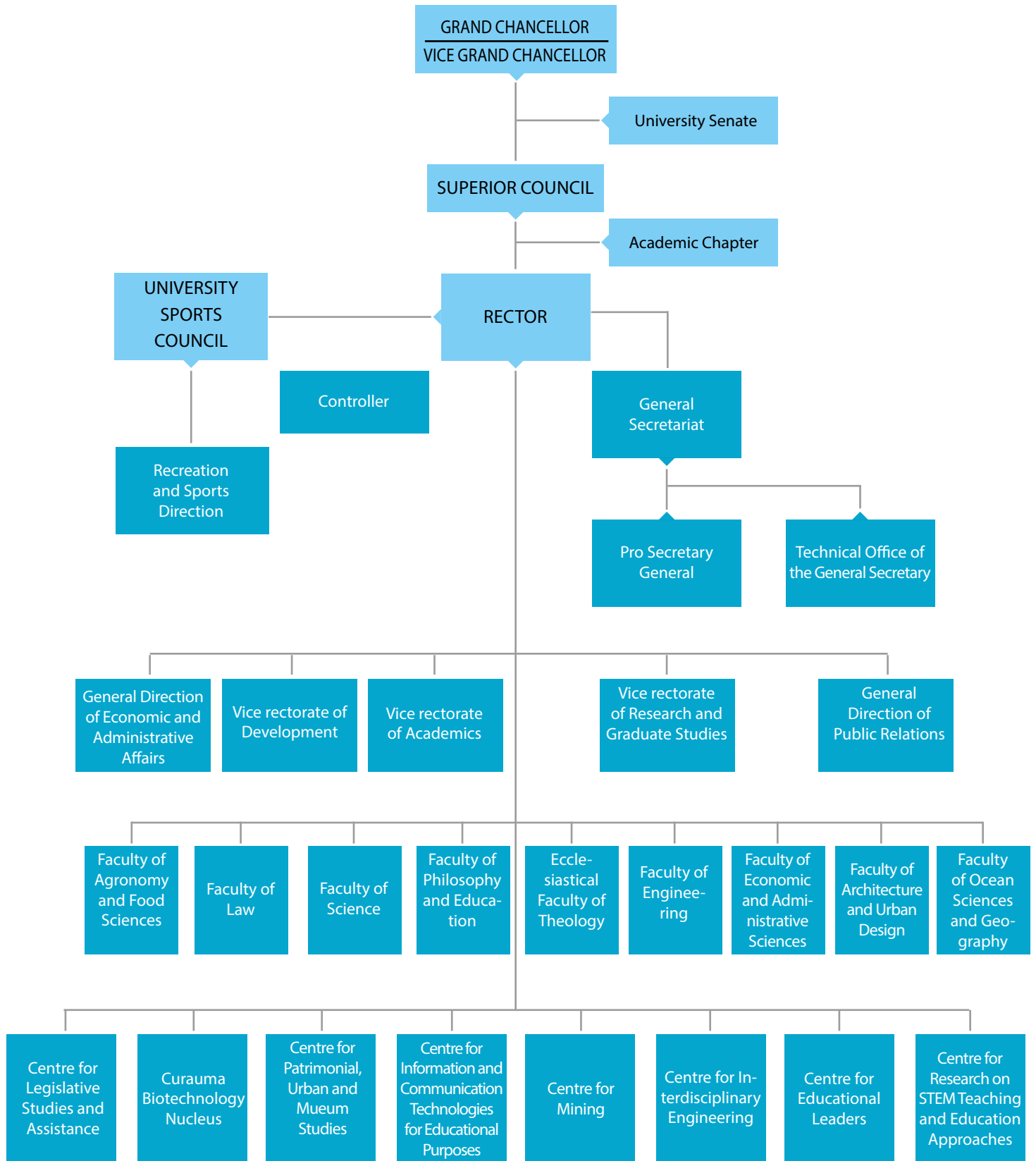
INDIVIDUAL AUTHORITIES

Monsignor Pedro Ossandón Buljevic, Grand Chancellor
Claudio Elórtogui Raffo, Rector
José Luis Guerrero Becar, General Secretary
Fernando Castillo Salfate, Pro Secretary General
Lorena Carvajal Arenas, Controller
Nelson Vásquez Lara, Vice Rector of Academics
Joel Saavedra Alvear, Vice Rector of Research and Graduate Studies
Arturo Chicano Jiménez, Vice Rector of Development
Alex Paz Becerra, Director General of Economic and Administrative Matters
Karina Toledo Cabezón, Director General of Public Relations

DEANS

Juan Eugenio Álvaro Martínez-Carrasco, Faculty of Agronomy and Food Sciences
David Luza Cornejo, Faculty of Architecture and Urban Design
Manuel Bravo Mercado, Faculty of Sciences
María Teresa Blanco Lobos, Faculty of Economic and Administrative Sciences
María Graciela Brantt Zumarán, Faculty of Law
José Marín Riveros, Faculty of Philosophy and Education
José Ceroni Díaz, Faculty of Engineering
Guillermo Martínez González, Faculty of Ocean Science and Geography
Gonzalo Bravo Álvarez, Ecclesiastical Faculty of Theology

ORGANIGRAM



INTEGRITY AND ETHICAL BEHAVIOUR

As a Catholic institution, the PUCV assumes the ethical obligations established by the Magisterium of the Social Doctrine of the Church, which has at its core respect for the dignity of people.

To ensure the ethical conduct of members of the university community, sustained progress has been made in developing preventative policies and complaints mechanisms.

ACTIONS AGAINST ABUSE, HARRASSMENT, VIOLENCE AND DISCRIMINATION

Along with global demands driven by the feminist movement for a culture of greater equity and rights protection, the University was one of the first higher education institutions to form a Commission, Policy and Protocol of Action for the Prevention, Accompaniment and Sanctioning of Abuse, Harassment, Violence and Arbitrary Discrimination Behaviours.

During the period, the number of sessions of the Commission increased from 26 in 2018 to 39 in 2019, in direct relation to the increase in complaints received, which amounted to 65, while the previous year reached 47.

Of the complaints received during the period, 34 were declared admissible, of which six of these cases underwent mediation processes.

CRIME PREVENTION MODEL

In order to ensure continuous improvement in its standards of integrity, accountability and transparency, in 2018 the process of implementing the Crime Prevention Model for compliance with Law No. 20.393 on Criminal Liability of Legal Persons in Crimes such as Money Laundering, Terrorist Financing, Co-corruption Crimes, Reception, Incompatible Negotiation, Misappropriation and Contamination of Waters, among others.

The implementation of the Model provides for a structured set of organizational elements, policies, programs and procedures adopted to avoid the commission of conduct that may be of the nature of the offences identified above.

During the second half of 2019, socialization work was carried out on the most relevant aspects of Law 20.393 with various management authorities, including both presentations to the Superior Council and to directors of academic and administrative units.

Subsequently, a diagnosis was made on the compliance situation of the different areas of the University, projecting for 2020 the integral implementation of the Crime Prevention Model, through the development of an institutional risk matrix and an implementation manual. It should be noted that the Crime Prevention Model is also part of the Integrity System established in the Strategic Development Plan.

In addition, progress has been made in the implementation of the Policy and Procedure in relation to Conflicts of Interest, with the submission of declarations of interest by all new authorities.



02

COMMITMENT TO
SUSTAINABLE DEVELOPMENT

In its 91-year history, the Pontifical Catholic University of Valparaiso has remained attentive to the challenges posed by the evolution of society, offering answers with a broad and diverse vision.

Thus, the Institution has sought to contribute from its different skills areas to the search for solutions to the great problems that afflict humanity, such as climate change, poverty and inequality, as part of its deep public vocation and commitment to Sustainable Development.

The path to sustainability at the University goes back more than 18 years, when university social responsibility began to be addressed.

Since then, a number of initiatives have been carried out that led to the incorporation of sustainability in the Strategic Development Plan 2017-2022, through the strategic guideline "A Quality and Sustainable University", which is established within the framework to move towards the integration of good practices and sustainability criteria in all areas of its work: education, research, public relations and institutional management.

STRENGTHENING SUSTAINABILITY MANAGEMENT

In 2019, the General Direction of Public Relations (DGVM) was awarded the Regional Higher Education Performance Convention "Strengthening Sustainability Management through Institutional Capacity Building and Its Implementation in Impact Initiatives in the City of Valparaiso".

Through a work program that will run until 2022, it seeks to consolidate a culture of sustainability within the PUCV, taking into consideration the priorities set out by the United Nations Agenda 2030 and the 17 Sustainable Development Goals.

One of the main aims of the project is for the DGVM to promote greater articulation between the various sustainability initiatives that exist in the University. This includes strengthening educational activities on sustainability; establishing environmental management standards and strengthening involvement with social organisations in Valparaiso.

THE PUCV THINKS ABOUT CHILE

The October 2019 social uprising highlighted the sharpness of the problems affecting the country and social demands for greater justice and equity. Faced with this situation, the University established the space for dialogue and reflection "The PUCV Thinks About Chile", which brought together more than 2,300 members of the university community.

Between November and December 2019, 75 meetings were held in all academic and administrative units, where students, academics and officials reflected on the causes of the social movement and the contribution that the University can make to society from its mission and public role.

Based on these encounters, the University hopes to continue making progress on the debate within the PUCV to project a more just Chile, where there is complete respect for the democratic institutions and the different visions that exist within the University.

OUR SUSTAINABILITY ROUTE

Among the milestones that have marked the PUCV'S path to sustainability the following stand out:

- 2001** Adhesion to the "Universidad Construye País" Project (University Builds Country), whose objective was to expand the concept and practice of social responsibility in Chile's university system.
- 2004** Participation in the MECESUP Project: "Training of professionals with values, attitudes and behaviours that favour their Social Responsibility".
- 2008** Participation in the MECESUP project: "Implementation of an educational model to educate on Social Responsibility".
- 2009** Publication of the first Sustainability Report, which has been published over the last 11 years, being the only university in the country to carry out this exercise of transparency and accountability on an uninterrupted basis.
- 2014** Adhesion to the Sustainable Campus Network, which brings together 26 higher educational institutions in the country.
- 2015** Publication of the Sustainability Policy and Conformation of the University Social Responsibility Network of the Organization of Catholic Universities of Latin America and the Caribbean (ODUCAL).
- 2016** Joined the United Nations Global Compact Chile Network, committing to fulfil its ten principles and mobilizing its contribution to the 17 Sustainable Development Goals.
- 2017** Incorporation in the Regional Observatory of Social Responsibility for Latin America and the Caribbean (ORSALC).
- 2018** Creation of the Inclusion and Gender Unit.
- 2019** Awarded the Regional MINEDUC Higher Education Performance Agreement "Strengthening sustainability management through the development of institutional capacities and their implementation in impact initiatives in the city of Valparaiso", to be implemented in 2020.



ADHESION TO SUSTAINABILITY INICIATIVES

The threat posed by the current socio-environmental crisis, to local and global communities, represents a challenge in terms of training, research and public relations. In order to respond in a timely manner to these problems, the University has established partnerships with global and regional initiatives that seek to promote sustainability and social responsibility.



UNITED NATIONS GLOBAL COMPACT

Since 2016 the university has adhered to the UN Global Compact, a global initiative that urges organizations to adopt ten universal principles and to mobilize their contribution to the 17 Sustainable Development Goals.

The ten principles enjoy universal consensus and aim to strengthen human rights, labour standards, environmental protection and the fight against corruption.

By means of this sustainability report, the university gives an account of progress made in the integration of these ten principles and its genuine commitment to sustainability. The report is not only a means of complying with the Communication of Progress required from subscribed organizations but is also an instrument of transparency and accountability of institutional development.

SUSTAINABLE DEVELOPMENT GOALS

The university is committed to the broader challenges of the United Nations, specifically the Sustainable Development Goals (SDG), which were developed as a result of the largest multilateral agreement in recent times, by 193 Nations, in order to tackle 17 global priorities in matters of social justice, environmental protection and economic prosperity by 2030.

Universities, due to their work in generating and disseminating knowledge, are called upon to play a crucial role in the socialization, training and capacity building for the achievement of the 17 SDG, with the aim of adequately addressing the variety of current and future socio-environmental threats.



Pacto Global
Red Chile





REGIONAL OBSERVATORY OF SOCIAL RESPONSIBILITY FOR LATIN AMERICA AND THE CARIBBEAN (ORSALC)

Since 2017 the university has been a member and coordinator of Zone 8 of the Regional Observatory of Social Responsibility for Latin America and the Caribbean (ORSALC). It is a thematic program led by UNESCO's Institute of Higher Education for Latin America and the Caribbean (IESALC).

In 2019, the PUCV hosted the VII Forum on Territorial Social Responsibility, which brought together prominent exhibitors from universities in 13 countries, with the aim of showing trends and evidence of the current state of sustainability and social responsibility.

UNIVERSITY SOCIAL RESPONSIBILITY NETWORK OF THE ORGANIZATION OF CATHOLIC UNIVERSITIES OF LATIN AMERICA AND THE CARIBBEAN (ODUCAL)

The Network was formed as part of a seminar organized at the PUCV in 2015, when 12 universities signed the Valparaiso Declaration as a collaboration agreement.

In order to contribute to the progress of Catholic higher education in Latin America, the Network develops a set of collaborative actions aimed at improving the quality of the educational offer and strengthening research and community service activities of partner institutions, with presence from the subregions of Mexico, Central America and the Caribbean to the Southern Cone subregion.



TRANSPARENCY AND ACCOUNTABILITY

This report is the eleventh version of an annual publication that aims to report on the university's principal topics addressed by the Strategic Development Plan, favouring a process that responds to society's demand for higher standards of transparency, but also safeguards the monitoring and fulfilment of the strategic guidelines which have been the result of thoughtful work by the entire academic community.

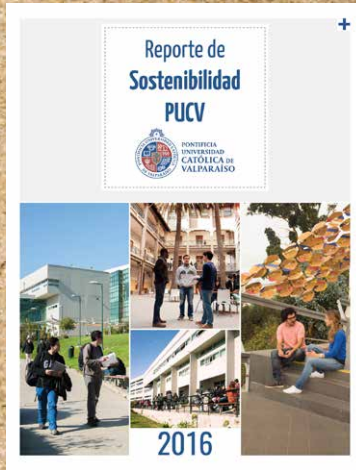
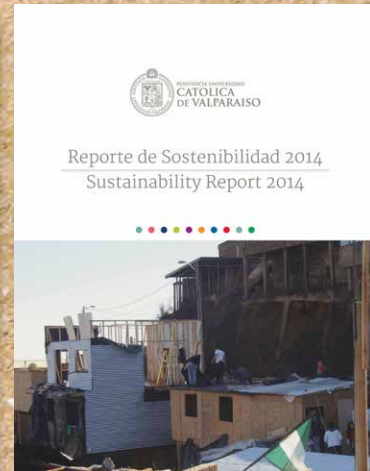
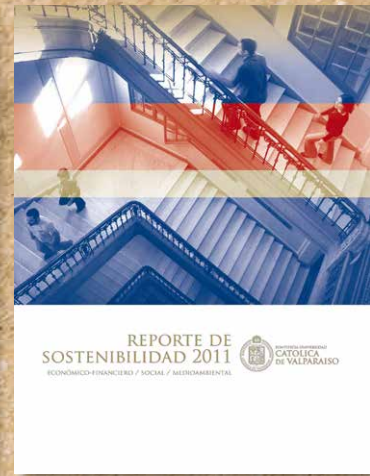
Based on the previously mentioned materiality, this report reviews and accounts for the following guidelines that constitute the heart of its institutional purpose and guide its work for the period 2017-2022: "A university that projects its identity"; "A university that generates knowledge"; "A university that shapes people with a vocation for service to society"; "A quality and sustainable university" and "A university that connects".

While the sustainability approach is integrated across the plan, it is set out in the fourth strategic guideline "A Quality and Sustainable University", responding to a commitment to guide institutional performance from this perspective.

The PUCV's Sustainability Report communicates to all its stakeholders, relevant aspects between 1 January and 31 December 2019, covering

the management at a central level as well as in its faculties, academic units and their various centres. It is based on the globally recognized methodology of the Global Reporting Initiative (GRI) Standards, in concordance with the core option.

The preparation of this report comes from an information gathering process that considered requests for information validated by the different areas of the University, allowing a diagnosis of the progress made. In addition, the outcome of this process is a valuable management tool for the monitoring, evaluation and comparability of the initiatives undertaken, offering an institutional learning perspective for the determination of present and future challenges.



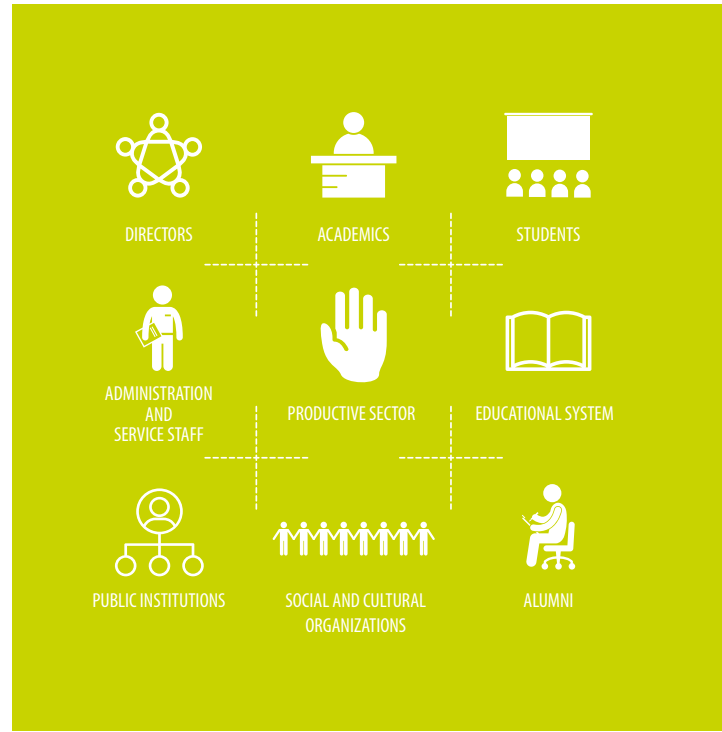
STAKEHOLDER ENGAGEMENT

The PUCV has different communications channels and engagement and monitoring mechanisms with its stakeholders to ensure a continuous and permanent dialogue with each group.

These groups are made up of both their own university community (directors, academics, students, officials and alumni), as well as the educational system, productive sector, state institutions, civil society, social and cultural organizations, all of them groups that have the presence of alumni.

This Sustainability Report represents one of the selective communication channels used by the University to respond to the most relevant concerns of these groups, according to data collected in its strategic planning processes and instances of permanent dialogue.

The following are the main channels for stakeholder communication and participation:



STAKEHOLDERS

INFORMATION CHANNELS

ENGAGEMENT MECHANISMS

STAKEHOLDERS	INFORMATION CHANNELS	ENGAGEMENT MECHANISMS
Directors	<ul style="list-style-type: none"> Sustainability Report Website www.pucv.cl Intranet Notice Boards PUCV Magazine Emails Letters and/or invitations Memos and/or circulars Social networks Newsletters Informative screens in campuses 	<ul style="list-style-type: none"> University Senate Accreditation Process Transmissions via streaming
Academics	<ul style="list-style-type: none"> Sustainability Report Website www.pucv.cl Intranet Notice Boards PUCV Magazine Emails Letters and/or invitations Memos and/or circulars Social networks Newsletters Informative screens in campuses 	<ul style="list-style-type: none"> Superior Council Faculty Council Academic Unit Councils University Senate Accreditation Process Election of the Rector Election of the Deans Election of the Academic Unit Directors Association of Academics Transmissions via streaming Big events
Students	<ul style="list-style-type: none"> Sustainability Report Website www.pucv.cl Notice Boards PUCV Magazine Emails Letters and/or invitations Social networks Newsletters Informative screens in campuses 	<ul style="list-style-type: none"> Faculty Council School Council University Senate Student Federation Student Centre Accreditation process Satisfaction survey Evaluation of Academics Voluntary organizations Transmissions via streaming Big events

Administration and Service Staff	Sustainability Report Website www.pucv.cl Intranet Notice Boards PUCV Magazine Emails Letters and/or invitations Memos and/or circulars Social networks Newsletters Informative screens in campuses	Workers Unions Joint Committees University Senate Accreditation Process Transmissions via streaming Performance Evaluation Psychosocial Risk Survey
Productive Sector	Sustainability Report Website www.pucv.cl PUCV Magazine Emails Letters and/or invitations Social networks Brochures Press releases and publications	Accreditation Process Employer Satisfaction Surveys Meetings Seminars and talks Provision of services Applied research activities Technical assistance, training, agreements Transmissions via streaming
Educational System	Sustainability Report Website www.pucv.cl PUCV Magazine Emails Letters and/or invitations Social networks Brochures Press releases and publications	Talks and educational fairs School visits to the PUCV Open Day Admission Expo National & Regional Council of Rectors of Chilean Universities (CRUCH) Transmissions via streaming
Public Institutions	Sustainability Report Website www.pucv.cl PUCV Magazine Emails Letters and/or invitations Social networks Brochures Press releases and publications	Accreditation process Meetings Seminars Applied research activities Transmissions via streaming Big events
Social and Cultural Organizations	Sustainability Report Website www.pucv.cl PUCV Magazine Emails Letters and/or invitations Social networks Brochures Press releases and publications	Meetings Seminars and talks Access to university sites and use of infrastructure (Film archive, Curauma library) Transmission via streaming
Alumni	Alumni newsletter Sustainability Report Website www.pucv.cl PUCV Magazine Emails Letters and/or invitations Social networks Brochures Press releases and publications	Accreditation process Seminars and talks Technical assistance, training and conventions Employer Satisfaction Surveys Transmissions via streaming Big Events

Source: Directorate General for Public Relations

03

STRATEGIC DEVELOPMENT
PLAN

In 2019, the implementation and monitoring of the Strategic Development Plan 2017-2022 continued. All academic units now have up to date concordance plans that are being implemented.

As part of the progress and results of the implementation of the Strategic Development Plan in 2019, the following highlights should be noted:

- Two activities were carried out in the context of the Chair of Institutional Identity: the lecture given by the outstanding university professor Joseph Ramos Quiñones, called "Testimony of a Catholic Academic" and Reflection Day "Identity of our University", organized by the Vice-Chancellor of Development, in conjunction with the Ecclesiastical Faculty of Theology. These activities involved 296 people from the university community.
- The participation of the Academic Units in 62 public recognition projects, within the framework of institutional identity and 547 appearances by academics in society thanks to their contribution to knowledge in their area of studies.
- The adjudication of 57 Fondecyt projects, 35 from other ANID and international sources, including the project "Ecological intensification: Integrating knowledge of ecosystem service to promote sustainable agriculture in Chile" of the 2019 Rings of Science and Technology Research Competition.
- The formation of 12 Research Nodes, which aim to consolidate associative or interdisciplinary groups to carry out high-level scientific and/or technological research with national and international impact.
- The process of updating the University's Educational Model, through a comprehensive and inclusive process with the participation of professors, students and officials.
- The increase in enrolment at all levels of training, undergraduate, masters and doctorate, as well as the improvement in the retention rates of first-year postgraduate students, a reduction in graduation and/or qualification times for undergraduate students, a figure that is accompanied by an increase in the appropriate graduation rate for undergraduate and doctoral programs.
- Advances in infrastructure, which considered completion of the School of Psychology building on the Sausalito Campus, the Piloting Works in the new Civil Engineering and Construction Engineering building on the Brazil Campus, the beginning of works of the new Ocean Sciences building on the Curau-ma Campus; and the School of Business and Economics at the Recreo Campus.
- The incorporation of 43 new professors into the academic body of the University, 65% of them with a doctor's degree.
- The design of a University Quality Assurance Policy and the strengthening of the internal quality assurance system.
- Accreditation of five master's programs and four doctoral programs.
- The implementation of the Public Relations Management System, where 4,303 activities were recorded, with a participation of 490,497 people.

STRATEGIC GUIDELINES

UNIVERSITY THAT PROJECTS ITS IDENTITY

The first guideline of the plan is a **University that projects its identity**, which inspires all institutional work and is determined by its status as a Catholic university, of excellence and with a public vocation.

Objectives: strengthen the institutional identity in the university community and increase the institutional presence in relevant societal topics, from the perspective of its identity.

UNIVERSITY THAT GENERATES KNOWLEDGE

The second guideline of the plan is a **University that generates knowledge**, bearing in mind that it is a permanent challenge for the institution to increase its capacity to create, apply and communicate knowledge.

Objectives: increase the productivity and impact of research and encourage the creation of interdisciplinary research, consolidate doctoral programs and their international projection and strengthen the link between research and innovation, technology transfer and entrepreneurship.

UNIVERSITY THAT SHAPES PEOPLE WITH A VOCATION OF SERVICE TO SOCIETY

The third guideline is a **University that shapes people with a vocation of service to society**, reaffirming and renewing a commitment that has been part of the university since its beginning.

Objectives: evaluate and update the institutional educational model, promote the renovation of academic processes and structures, and ensure a relevant and distinctive academic offering.

QUALITY AND SUSTAINABLE UNIVERSITY

The fourth guideline corresponds to a **Quality and Sustainable University**, which highlights the institutional commitment to caring for people and the environment, the assurance of quality and the management and responsible use of resources.

Objectives: strengthen the development of the academic body, promote the continuous improvement of institutional processes and improve the management of financial, physical and information technology resources.

UNIVERSITY THAT CONNECTS

The fifth guideline corresponds to a **University that connects**, and as such, it is called to strengthen reciprocal enrichment with society.

Objective: deepen the university's relevance in society.





04

A UNIVERSITY THAT PROJECTS ITS IDENTITY

STRATEGIC OBJECTIVES:

- Strengthen the institutional identity
- Increase the university's presence in topics that are relevant to society, based on the institutional identity

From its institutional identity and considering the relevance of socio-environmental problems, the university strives to deepen its presence in society, contributing to better understanding and solving the current challenges faced by the country and the world.

A key piece of the university's identity is respect for freedom of religion and thought for all its members, which is why the university rejects behaviours of discrimination and mistreatment that impact due respect for valuable human diversity and physical and emotional integrity.

The 2017-2022 Strategic Development Plan emphasizes the relevance of this aspect in its first guideline to be considered as a "**University that projects its identity**".

Since its origins, the University has positioned itself in the regional and national public space, as an institution defined by its vocation of service to society and whose identity is determined by three distinctive features:

Catholic University

Determined by its status as a university and moreover a Catholic university, at the service of understanding and disseminating the Magisterium of the Church, in the midst of a globalized, pluralistic and multicultural world.

University of Excellence

Characterized by the constant and permanent search for maximum quality in each of the academic and institutional management processes.

University with a public vocation

To the extent that it continually strives to meet the requirements that society demands at all times and to renew itself to fully satisfy its educational, research, institutional management and public relations work.

STRENGTHENING INSTITUTIONAL IDENTITY

In order to deepen the principles of the identity of our university, in 2019 significant activities were carried out in the context of the Chair of Institutional Identity, in which 296 members of the university community participated. These are: the **“Testimony of a Catholic Scholar”** Conference, given by Professor Joseph Ramos Quiñones; and the Reflection Day **“Identity of our University”**, organized by the Vice-Chancellor of Development, in conjunction with the Ecclesiastical Faculty of Theology.

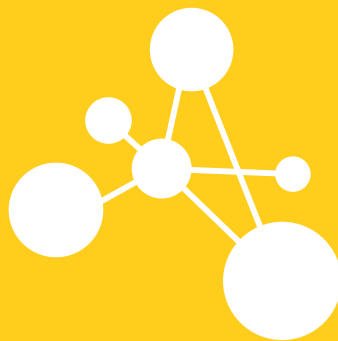
Within the framework of institutional identity which the university seeks to strengthen, the participation of academic units in 62 public recognition projects was promoted. These initiatives included the presence of 547 academics, which made the institution's commitment to society tangible, contributing information from different areas of knowledge.



UNIVERSITY NETWORKS

Conscious of the value of virtuous partnerships for the achievement of objectives, the university is part of various inter-university networks, including the Council of Rectors of Chilean Universities (CRUCH), of which the PUCV has been an active member since its inception.

- Council of Rectors of the Chilean Universities (CRUCH)
- Network of Public, Non-State Universities (G9)
- Council of Rectors in Valparaíso (CRUV)
- Group of Chilean Regional Universities (AUR)
- University Centre of Development (CINDA)
- Organization of Catholic Universities in Latin America and the Caribbean (ODUCAL)
- International Federation of Catholic Universities (IFCU)
- UNIVERSIA
- Sustainable Campus Network (RCS)
- STEAM Network, Valparaiso Territory
- Mediation Network Chile



COMMITMENT WITH THE SCHOOL SYSTEM

Recognizing the importance of education in each of its stages and as a teacher training institution, the Pontifical Catholic University of Valparaíso contributes, through its capacities and knowledge, to strengthening the quality and equity in school education. The following initiatives can be highlighted:

TEACHERS FOR CHILE: VISION AND SENSE OF MISSION

Seventy years of history support the commitment and continuity of the PUCV's mission as a teacher-training institution that drives the education of new generations.

Recognizing the central role of teachers in Chilean society, the university has declared itself as a "house in which teachers are trained".

The project "Implementation Plan for the Strengthening of Initial Teacher Training at the Pontifical Catholic University of Valparaíso" (MINEDUC UCV 1897) was awarded in 2018 and will be carried out from 2019 to 2021 within the context of the university's responsibility towards challenges in Chile.

In this way, it builds on progress and innovations made in previous projects, as well as in relationships with other specialized institutional centres. It aims to strengthen the excellence of initial teacher training in the PUCV, closely aligned with the development and needs of the school system, current definitions of public policies and a commitment to the country's development, in faithful compliance with the Institutional Educational Project.

EDUCATIONAL LEADERS - LEADERSHIP CENTER FOR SCHOOL IMPROVEMENT

The PUCV's Leadership Centre for School Improvement was established in 2017 thanks to an agreement between the Ministry of Education and in partnership with the University of Chile, the University of Concepción, Fundación Chile and the University of Toronto, with the mission to support, from an interdisciplinary perspective, the strengthening of the quality of the school system, through training, the development of alliances and innovation on educational leadership topics. In order to develop innovative training, research and outreach programs to contribute to the strengthening of educational leadership in Chile.

During 2019 and thanks to its programs, a total of 1,221 educational leaders were trained, thus improving the practices of primary and high school leaders from different regions of the country and enabling the development of skills for work in school networks and from a territorial perspective.

As a result of this inter-university work, in 2019 various documents and support tools were published on the website www.lidereseducativos.cl. In 2019 the portal had more than 370 thousand visits and more than 57 thousand downloads of educational resources.

In research matters, the Centre's team of professionals carried out a total of 53 presentations at seminars and congresses, both nationally and internationally.

TEACHER INDICATORS IN CHILE

	2018	2019
Accredited Teaching Programs	13	13
First year teaching students	796	821
Total students	2.897	2.964
Graduates	432	346

EN ESTA CASA SE FORMAN PROFESORES



La Pontificia Universidad Católica de Valparaíso saluda a los profesores de Chile en su día.





COSTADIGITAL CENTER PUCV

The Costadigital Centre was established in 1995 with the aim of contributing to the continuous improvement of the teaching and learning process through the use of technologies. Its' origin is connected to the "Enlace" (Links) Program from the Ministry of Education in the Valparaiso Region in order to improve educational quality integrating educational informatics in the school system. Currently, one of the main focuses of the Centre is continuous training for teachers, designing and imparting national level, e-learning and b-learning training courses.

However, another area of interest is the monitoring of emerging technologies, paying special attention to those that could be incorporated into the classroom with a pedagogical sense, such as drones and augmented reality and the creation of computer systems to implement efficient information management networks in the education system. Likewise, robotics is another line of interest, and since 2016 maker workshops in different TP training spaces, schools and neighbourhoods have been implemented. Finally, it develops research on the integration of ICT in the classroom.

Some of the main projects carried out during 2019 are: Network of Maker Clubs; the Use of Drones in Education in the communes of Quillota and Valparaiso; and the Approach to Problems and Final Dimensions of the use of ICT in final teaching practices.

RESEARCH CENTER FOR INCLUSIVE EDUCATION (EDUINCLUSIVA)

Since its inauguration in 2017, the Research Centre for Inclusive Education (EDUINCLUSIVA), has become a leader in the fields of scientific research, development and transfer, support in public policies and scientific dissemination as a vehicle for the transmission of knowledge to society.

With funding from Conicyt, through this Centre, the university has manifested its intention to work for a quality, sustainable and inclusive education, offering all students, children and youth, the opportunity to develop their different abilities with a sense of ownership, eliminating the barriers of exclusion and segregation.

The Centre is the result of efforts led by the Schools of Psychology of the Pontifical Catholic University of Valparaiso in partnership with the University of Chile, Andrés Bello University, the University of Tarapacá and the Technological University of Chile, INACAP.

Among the most impactful activities of 2019 are the completion of the 2nd Educational Summer School: "Educational trajectories, transitions and inequalities"; the 2nd Educational Winter School: "Moving together towards inclusive education"; the seminar/premiere of the video-documentary series: "Good practices for transforming the classroom"; and the International Seminar on Scholarly Coexistence.

PUBLIC AND SOCIAL INITIATIVES

The PUCV manifests its public vocation and social commitment through various institutions, centres and programs that address public interest topics.

THE FORUM FOR HIGH SOCIAL STUDIES OF VALPARAISO

The Forum for High Social Studies of Valparaiso is a centre of study and discussion that brings together high-level academics in the social sciences to address the evolution of Chilean and Latin American society, its processes of insertion into realities derived from globalization, the information society and other phenomena of sociocultural relevance.

In this way, the influence of phenomena such as poverty and inequality and how they impact the possibilities for the expansion of democracy at the national and international levels is analysed and socialized.

In 2019, the Forum launched its Notebook XXI "APEC Challenges", in the context of a seminar that served as a preamble for the Asia Pacific Economic Cooperation (APEC) Forum in the region.



CENTER FOR OCEAN LAW

With its more than 6,000 kilometres of coastline, the ocean is a part of Chile's origin and destination as a country. For this reason, this Centre as part of the PUCV Law School, actively participates in the legislative and public discussion on the global situation of the oceans, which have reflected as never before the consequences of climate change and the vulnerability of our underwater and terrestrial ecosystems.

The researcher at the Centre for Ocean Law, Rocío Parra, participated in a panel on coastline protection, in the context of the 25th Conference of the Parties to the United Nations Framework Convention on Climate Change (COP25). This Conference was referred to as the "Blue COP" for its maritime approach and was chaired by Chile in Madrid in December 2019.





CENTRE FOR LEGISLATIVE STUDIES AND ASSISTANCE (CEAL)

Established in 1989 to collaborate in the reopening of the National Congress, the Centre is recognised as an interdisciplinary actor in the treatment of highly complexity challenges in the management of public and private policies. Through its lines of work, the Centre constitutes a concrete and effective link between the academic world and public and private actions, supporting processes leading to state modernization, legislative reforms and other projects, including the implementation of the Valparaíso Labour Observatory.



PROGRAM OF SOCIAL STUDIES AND DEVELOPMENT (PRESODE)

The Social Studies and Development Program (PRESODE), under the Faculty of Economic and Administrative Sciences, aims to promote the study, dissemination and applied research of social reality from a multidisciplinary perspective, with the aim of contributing to its better understanding. In this way, the program contributes to the diagnosis, design and measurement of public policy effects through studies and cultural cooperation initiatives.



ASIA PACIFIC PROGRAM

The Program was established with the aim of contributing to a better sociocultural knowledge of the area, promoting the well-being of cultural relations and to address challenges in issues of relevance to both Latin America and Asia Pacific. In this way, the Program develops, projects and consolidates actions aimed at promoting academic exchange and cultural relations, stimulating the improvement of institutional performance, from a multidisciplinary and interdisciplinary approach, to the treatment of topics of relevance to both Latin America and Asia Pacific.

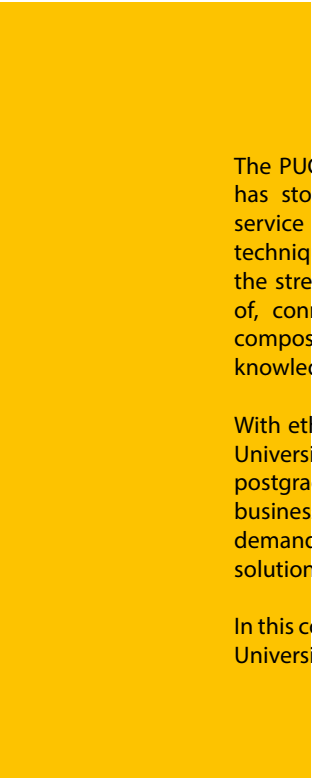


05

A UNIVERSITY THAT GENERATES KNOWLEDGE

Strategic objectives:

- Increase productivity and the impact of research and development
- Incentivize interdisciplinary research
- Consolidate doctoral programs and their international projection
- Strengthen the link between research and innovation, technology transfer and entrepreneurship



The PUCV promotes a culture of research that has stood out for its trajectory, in constant service of the development of knowledge, techniques and capabilities that contribute to the strengthening of the society that it is part of, connecting with the various actors that compose it and articulating the generation of knowledge that are currently needed.

With ethics rooted in its founding mission, the University continues to position its research, postgraduate programs, research centres and business incubators in 2019, driven by a high-demand scenario for knowledge and innovative solutions to far-reaching problems.

In this context, the second strategic guideline "A University that generates knowledge" is framed,

which seeks to deepen the standards of quality, innovation and impact, effectively responding to a complex and constantly changing environment.

SUPPORTING RESEARCH

Thanks to the work, commitment and trajectory of its researchers, academics and students, the PUCV is widely recognised in Chile and abroad, showing its permanent interest in contributing to the generation of knowledge with high quality and ethical standards, in consistency with the requirements of the local and global environment.

This approach has been instrumental in addressing some of the country's main problems from a view that emphasizes not only disciplinary diversity, but also the richness and relevance of the topics addressed by each of its research projects.

EXTERNALLY FUNDED PROJECTS

In 2019 the University achieved a total of 97 projects awarded with national and international external financing funds.

The 2019 figures continue to consolidate the PUCV among Chile's best research institutions. In this sense, the 57 Fondecyt projects awarded in 2019 place the University first at the regional level and fourth nationally.

INTERNATIONAL AND NATIONAL FUNDING

TYPE OF FUNDING	No OF AWARDED PROJECTS		FINANCING (MILLION PESOS)	
	2018	2019	2018	2019
National Funding	85	87	6.792	7.577
(Fondecyt, AGCID, ANID and others)	5	10	137	245
International Funding	90	97	6.929	7.823
Total				

Source: Department of Research, Vice-rectorate of Graduate Studies and Research

In terms of national external funding, the University registers a total of 87 projects awarded, including 57 Fondecyt and 30 from other competitive processes.

In addition, international funding received a significant increase in the period with the adjudication of 10 funds totalling 245 million pesos. This increase is explained in part by the establishment of new centres and consolidated nodes for the application of these funds and, on the other hand, the growing interest of researchers in the academic community to participate in international funding processes.



CONICYT Ring project in Science and Technology “Ecological intensification: Integrating knowledge of ecosystem services to promote sustainable agriculture in Chile”.

The project, led by Juan Celis, an academic in the School of Agronomy, was awarded in 2019 from a total of 200 nominations, and is a transformative impetus for sustainable agriculture.

Thanks to research work, which will be extended over three years, the project aims to study the functioning of farmers’ ecosystems, analysing the use of natural cycles to enhance less agriculturally intense processes, as opposed to those that negatively impact areas of forests and natural areas, degrading soils, altering the hydrological cycle, enhancing the release of greenhouse gases , reducing biodiversity and increasing socio-environmental vulnerability.

PROJECTS ALIGNED WITH THE SUSTAINABLE DEVELOPMENT GOALS (SDG)

In 2019, out of the total of 57 Fondecyt projects awarded, 44 respond directly or indirectly to the Sustainable Development Goals (SDG).

2019 FONDECYT PROJECTS (ACCORDING TO FUNDING AREAS)

FONDECYT COMPETITIONS	2018	2019
Initial FONDECYT	10	11
Postdoctoral FONDECYT	10	8
Regular FONDECYT	9	25
Total projects by year	29	44

2019 FONDECYT PROJECTS ALIGNED WITH THE SDG

(BASED ON SUPPORT FOR A SPECIFIC SDG)

SDG	2018	2019
SDG 1: No poverty	4	-
SDG 2: Zero hunger	1	2
SDG 3: Good health and wellbeing	2	9
SDG 4: Quality education	8	19
SDG 5: Gender equality	-	-
SDG 6: Clean water and sanitation	1	-
SDG 7: Affordable and clean energy	-	-
SDG 8: Decent work and economic growth	-	4
SDG 9: Industry, innovation and infrastructure	2	3
SDG 10: Reduced inequalities	-	-
SDG 11: Sustainable cities and communities	1	-
SDG 12: Responsible production and consumption	-	-
SDG 13: Climate action	5	-
SDG 14: Life below water	-	2
SDG 15: Life on land	4	3
SDG 16: Peace, Justice and strong institutions	-	2
SDG 17: Alliances to achieve the objectives	1	-
Total number of projects per year	29	44

Source: Department of Research, Vice-rectorate of Graduate Studies and Research

INTERNAL COMPETITIVE FUNDINGS

The University encourages the generation of knowledge in its teams of academics and researchers, through its Research and Innovation Strengthening and Incentive Program, which considers competitive funding and direct allocation funds.

These tools to support the diversification and dissemination of knowledge are characterized by incorporating most of the lines of research that are cultivated in the university and by a wide coverage that includes support for its academics and students, ranging from emerging lines or large projection, to more consolidated lines of research.

INTERNAL RESEARCH COMPETITIONS

Internal research projects are valued by both academics and students as a fundamental bridge for their development as researchers.

Continuing its mission to expand knowledge, a total of 268 projects were funded by the PUCV with its own funds in 2019, representing a total funding of \$1,040,537,981. Of these, 105 were supported through internal competitions and 149 through non-contestable funds and complementary support.

The significant increase in these funds compared to the previous year responds, in part, to the creation of new research nodes and the PUCV's decision to continue to support interdisciplinary research projects.

INTERNAL RESEARCH COMPETITIONS (ACCORDING TO COMPETITION AREA)

COMPETITION LINE	2018	2019
Consolidated	-	25
Regular	28	-
Emerging	-	31
Initial	14	-
Institutional Identity	-	7
Innovative interdisciplinary research	5	6
Value Seal	10	-
Post doctorate	19	13
Artistic Creation	8	8
Undergraduate research	9	6
Idea	2	-
Research nodes with PUCV funds	-	9
Independent Researchers	6	-
Total projects	101	105

PUCV RESEARCH NODES

High impact knowledge at the service of a new society

Contributing to the advancement in research matters and with direct relation to SDG 17 “Partnerships for the goals” the PUCV provided funding in 2019 to nine Associate or Interdisciplinary Research Nodes, with the aim of promoting the generation of scientific-technological knowledge linked to relevant issues of high national and global impact.

Together with contributing to the SDGs, the University is making progress in the fulfilment of its strategic guideline “A University that generates knowledge”, promoting the consolidation of networks with national and international institutions and centres of excellence, to increase its research in international collaboration and lead projects of relevance and social impact.

The Research Nodes are composed of academics of excellence and PUCV undergraduate and postgraduate students, who develop research in the areas of “**Science and Technology**” and “**Social Sciences and Humanities**”, promoting networks of collaboration with teams of national and international researchers.

SOCIAL SCIENCES AND HUMANITIES NODE

- Research Node on Accessibility and Inclusion Studies
- Data Analytics Research Node
- Research Node on Language, Learning and Pedagogical Practices

SCIENCE AND TECHNOLOGY NODE

- Research Node on Naturally Based Solutions for Emerging Environmental Challenges
- Electromobility Research Node
- Climate Change and Protected Agriculture Research Node
- Smart Telecommunications Research Node
- Lithium Science and Technology Research Node
- Teacher Training Research Node



DIFFUSION AND KNOWLEDGE SHARING

Standing out nationally in the number and quality of its research projects and publications, the PUCV encourages publication in indexed journals and digital libraries.

In this sense, the dissemination through Web of Science (WOS) publications increased 4,5% compared to the previous year, rising from 681 in 2018 to 712 publications in 2019. As for the impact of these publications, 74% corresponded to the Q1 and Q2 quartiles, representing an increase in appearance in magazines that receive a greater number of citations.

With respect to Scopus publications, there was a decrease of 3,3% from the previous year.

In addition to the publications in the aforementioned journals, PUCV researchers disseminated their results by participating as authors or co-authors of 47 books and 106 book chapters in 2019.

PUBLICATIONS IN INDEXED JOURNALS

PUBLICATIONS	2018	2019
Web of Science (WOS) Publications	681	712
Scopus Publications	865	836

Source: Department of Research, Vice-rectorate of Graduate Studies and Research.

RESEARCH CENTRES

The university promotes the creation and continuity of centres that promote research, innovation and the transfer of knowledge, always based on the principles of development that incorporate the values of social justice, environmental protection and economic prosperity, indivisible dimensions that drive sustainable development.

INTERDISCIPLINARY ENGINEERING CENTRE (CII)

This centre, created in 2014, is an Innovation, Research and Training space that aims to articulate the capacities of researchers in the Faculty of Engineering with the needs of the industry, through interdisciplinary work in the generation of high impact solutions for the productive sector of the country, thus contributing to sustainable development.

In turn, it promotes and strengthens applied research, creating spaces to address complex business ecosystem issues through I+R+D solutions. In its training areas, the CII offers a Diploma in Innovation and a Masters in Environmental Engineering that has almost a decade of experience.



CURAUMA BIOTECHNOLOGY NUCLEUS (NBC)

The NBC was inaugurated in 2010 with the mission of addressing business biotechnological challenges, enhancing the development of clean technologies, bioprocesses, energy aspects and greenhouse gas mitigation. Its fields of action are the analysis, evaluation, design and execution of projects related to processes and technologies involving biological activity.

The NBC has marked a new trend in biotechnological research that stands out for supporting, driving and developing innovative projects and cutting-edge technologies for the country's growth, which has earned it numerous recognitions and the trust of companies in Chile, Germany, Spain, Japan, Argentina, Mexico, Peru, France, United Arab Emirates, among other countries.



REGIONAL STUDY CENTRE FOR HEALTH NUTRITION (CREAS)

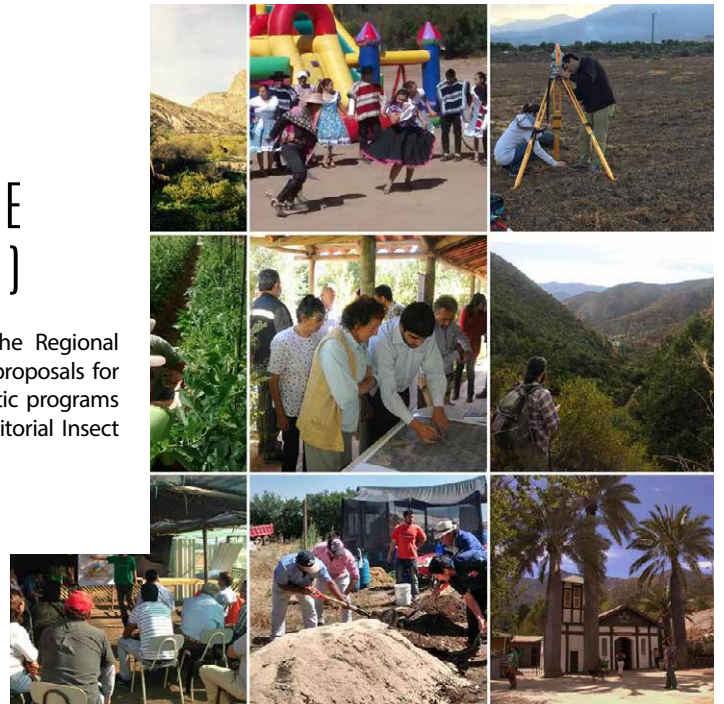
The Centre, founded in 2007, is made up of the PUCV, the Federico Santa María Technical University (UTFSM) and the University of Valparaíso (UV), as well as the La Cruz Institute of Agricultural Research (INIA). Its aim is to establish itself as a technological scientific centre of excellence dedicated to the promotion of public and private innovation and R&D investment for the development of products and solutions in food processes.

Co-financed by Conicyt and the Regional Government of Valparaíso, the centre has as one of its founding objectives the strengthening of Valparaíso's National and Regional Innovation Strategy, through the development of functional ingredients and the formulation of healthy foods that position Chile as a food power, thus incorporating added value into the production chain.



REGIONAL RESEARCH AND INNOVATION CENTRE FOR SUSTAINABILITY IN AGRICULTURE AND RURAL TERRITORIES (CERES)

CERES emerged in 2011 as a joint initiative between the PUCV, the Regional Government of Valparaíso and Conicyt to offer new alternatives and proposals for sustainable agronomy and has since focused its work in three thematic programs with high socio-environmental impact: Biological Soil Restoration, Territorial Insect Management, and Landscape, Territory and Rural Development.



ECO-NEIGHBOURHOODS: A COMMITMENT TO REDUCE THE ENVIRONMENTAL IMPACT IN VALPARAISO

In July 2019, PUCV's Curauma Biotechnology Nucleus (NBC) launched the project "Circular Economy to Promote Eco-neighbourhoods in Social Housing in the Valparaíso Region", an initiative funded by the Competitiveness Innovation Fund (FIC) of the Regional Government of Valparaíso.

The development of Eco-neighbourhoods involves the organization of communities that implement efficient and sustainable practices, and in which their residents have environmentally responsible habits. An Eco-neighbourhood seeks to make the most of resources, to reduce the amount of waste and improve the well-being of people and the community. "It's a neighbourhood with people organized around sustainable practices, aiming for a cultural change in the way they live," the NBC commented.

INNOVATION AND HIGH SOCIAL IMPACT ENTREPRENEURSHIPS

PUCV promotes a culture of innovation and entrepreneurship both within its university community and in its surrounding environment, positioning itself as a leading institution of the ecosystem, which contributes to the economic and social development of the region and the country.

PROJECTS WITH EXTERNAL FUNDING

In 2019, the University was awarded a total of 35 innovation projects with external financing, surpassing 24 from the previous period. In this way, the University makes possible the generation of initiatives and programs that contribute to sustainable development.

INNOVATION PROJECTS WITH EXTERNAL FUNDING

FONDECYT COMPETITIONS	2018	2019
Total number of projects	24	35
Total funding	\$1.858.071.511	\$1.075.352.462

Source: Department of Research, Vice-rectorate of Graduate Studies and Research



INTERNAL INNOVATION AND ENTREPRENERUSHIP COMPETITIONS

The University promotes the innovation, entrepreneurship and creative work of its university community, through competitive funds that support the generation of academic and student projects. The support includes financing, accompaniment and monitoring for the different stages of project development.

In 2019, efforts were focused on enhancing an institutional entrepreneurial culture, through articulated engagement work with different academic units and programs to promote innovation and entrepreneurship, benefiting a total of 25 projects and amounting to \$33,000,000.

INNOVATION PROJECTS WITH INTERNAL FUNDING

FONDECYT COMPETITIONS	2018	2019
Total number of projects	30	25
Total funding	\$45.600.000	\$33.000.000

Source: Department of Innovation and Entrepreneurship, Vice-rectorate of Graduate Studies and Research.

HIGHLIGHTED PUCV STUDENT PROJECTS



LAVANDEPURE

Commercial Engineering Student

Creation of an eco-friendly, biodegradable and environmentally friendly detergent based on natural products, using walnut peel from India (Soapnuts) as the main ingredient.



HEMOCHIP

Master of Sciences in Physics student

Development of an optoelectronic device for the sensitive measurement of different blood parameters and contribute to the detection of haematological pathologies.



VERMIPLAST

Chemical Engineering student

Construction of a worm composter from recycled plastics, to encourage joint recycling of organic material and plastic waste, promoting environmental awareness by social networks.

INCUBATORS AND BUSINESSES

Thanks to its commitment to the generation of a high-impact innovation and entrepreneurship ecosystem at the regional and national levels, in 2019 the Department of Incubation and Business (DIN) supported a total of 2,665 beneficiaries, through advisory and training programs focused on the gestation and development of SMEs, entrepreneurships, companies, organizations and student initiatives.

In this way, during the year the scope of dynamic ventures generated within the PUCV was enhanced, as a way to increase the participation of the university community in its various initiatives, projects and incubation and business programs.

INCUBATORS

CHRYSALIS, PUCV BUSINESS INCUBATOR

Chrysalis has positioned the University as a relevant player in the development and impact of regional economies, contributing to the decentralization of entrepreneurship and using innovation as an engine of transformation.

The incubator has enhanced projects within the university, developed by students, academics, and researchers, who are supported by funding, advice, mentoring and workshops.

CHRYSALIS INDICATORS

	2018	2019
Incubated entrepreneurships	63	59
Incubated entrepreneurships that undertake sales	42	37
Jobs created (incubated projects)	530	781
Companies or organizations (in Conviva)	8	5
Entrepreneurship promotional activities	100	79

COWORK ATACAMA

Chrysalis has extended its services to the city of Copiapó, through its Cowork Atacama, focusing mainly on entrepreneurships in the mining sector and taking particular care to support women-made ventures.

Indicators

Activities undertaken	112
Activity participants	1906
Benefitted entrepreneurships	192
Benefitted organizations/companies	29
SME's assisted	36

Source: Department of Incubators and Businesses, Vice-rectorate of Graduate Studies and Research.

VALPARAÍSO MAKERSPACE

With the support of the Faculty of Engineering and its Engineering 2030 and CORFO project, Valparaíso Makerspace has been constituted in a space aimed at solving the needs and opportunities of the surrounding environment, through the development of prototype innovations in products and processes.

It also generates initiatives aimed at children and adolescents, promoting creativity and innovation from an early age.

VALPARAÍSO MAKERSPACE INDICATORS

Indicators	2019
Activities undertaken	83
Activity participants	2.652
Benefitted entrepreneurship	21
Benefitted organizations/companies	2
SME's assisted	25
PUCV Students assisted	1.322

CEINNOVA

The Open Entrepreneurship and Innovation Centre (Ceinnova) aims to foster the link between companies, entrepreneurs and the university community, promoting the development of an ecosystem of entrepreneurship and innovation that responds to the challenges of the environment.

Ceinnova has partnered with different companies and organizations, developing open innovation challenges and installing new capabilities to contribute to the development of the region and the country.

CEINNOVA INDICATORS

Indicators	2019
Activities undertaken	46
Activity participants	633
Benefitted companies	9
Benefitted entrepreneurship	43

BUSINESS DEVELOPMENT CENTRES

Thanks to the operation of its Business Centres in Quillota and Aconcagua, in 2019 the PUCV supported 922 beneficiaries, between SMEs and entrepreneurs, deploying extensive territorial work in 22 communes of the provinces of Quillota, Petorca, Los Andes and San Felipe. In this way it helped decentralize the regional offer of Sercotec's support, training, and technical assistance services in the Valparaíso region.

QUILLOTA BUSINESS CENTER 2019

Indicators	2019
Activities undertaken	265
Activity participants	3746
SMEs supported	369
Entrepreneurships supported	117
Total beneficiaries supported	486

ACONCAGUA BUSINESS CENTER

Indicators	2019
Activities undertaken	147
Activity participants	2978
SMEs supported	300
Entrepreneurships supported	136
Total beneficiaries supported	436

Source: Department of Incubators and Businesses, Vice-rectorate of Graduate Studies and Research.



06

A UNIVERSITY THAT SHAPES
PEOPLE WITH A VOCATION OF
SERVICE TO SOCIETY

Strategic objectives:

- Evaluate and update the institutional educational model
- Promote the renovation of academic processes and structures
- Ensure a relevant and distinctive academic offering

Together with providing comprehensive and quality training in its undergraduate, postgraduate, post title and continuous training programs, the University is distinguished by its commitment to the training of professionals with a vocation to serve society and with solid disciplinary knowledge in various fields of knowledge.

Attentive to the requirements of the surrounding environment, the PUCV promotes a thoughtful culture of self-assessment and with the participation of its entire university community, in safeguarding the relevance of the programs and the excellence of the training processes.

It has an academic offer that in 2019 considers a total of 62 undergraduate programs, 48 postgraduate programs, 16 doctorates and 32 master programs, reaching for the reported period, a total enrolment of 17,880 students for their different training options.

The Strategic Development Plan 2017-2022 emphasizes the relevance of addressing the challenges presented by the context through the strategic guideline **“University that shapes people with a vocation to serve society”**.

UNDERGRADUATE STUDIES

The undergraduate area is the essential foundation of university activities and its main aim is to offer students a quality university education, with its distinctive value seal, always taking into account their needs and the needs of the environment in which they operate.

The university's academic offering in 2019 consisted of 62 undergraduate programs, whose areas encompass various knowledge areas, from arts and humanities to engineering, basic sciences, education, and theological studies.

The design of these programs, leading to an academic degree or professional title, provides continuity of studies through the different graduate programs offered by the university.

In 2019 a total enrolment of 16.243 students was recorded, increasing 5,2% compared to the previous period.

UNDERGRADUATE STUDY INDICATORS

	2018	2019
Undergraduate programs	61	62
Total undergraduate enrolment	15.440	16.243
First year undergraduate enrolment	3.789	3.888
Undergraduate PSU Average	608,7	602
Graduates	1.754	1.571
Students with financial support for undergraduate fees	82%	85%

ACADEMIC OFFERING

In 2019, the nine faculties of the PUCV offered 62 undergraduate programs

Architecture
Design
Bachelor of Arts
Bachelor of Sciences
Biochemistry
Statistics
Kinesiology
Bachelors in Biology
Bachelors in Physics
Bachelors in Mathematics
Pedagogy in Biology and Natural Sciences
Pedagogy in Physics
Pedagogy in Mathematics
Pedagogy in Chemistry and Natural Sciences
Industrial Chemistry
Medical Technology
Agronomy
Food Engineering
Geography
Oceanography
Accounting & Auditing
Commercial Engineering
Journalism
Social Work
Law
Special Education
Early Childhood Education
English-Spanish Interpretation
Musical Interpretation
Bachelors in Musical Sciences and Arts
Bachelors in Philosophy
Bachelors in History with a mention in Political Sciences
Bachelors in Hispanic Language and Literature
Pedagogy in Spanish and Communication
Pedagogy in Basic Education
Pedagogy in Physical Education
Pedagogy in Philosophy
Pedagogy in History, Geography and Social Sciences
Pedagogy in English
Pedagogy in Music
Psychology
English-Spanish Translation
Civil Engineering
Civil Biochemistry Engineering
Civil Mine Engineering
Civil Electric Engineering
Civil Electronic Engineering
Civil Metals Extraction Engineering
Civil Industrial Engineering
Civil Informatics Engineering
Civil Mechanical Engineering
Civil Chemical Engineering
Execution in Bioprocesses Engineering
Execution in Informatics Engineering
Transport Engineering
Electrical Engineering
Electronic Engineering
Construction Engineering
Mechanical Engineering
Canonical Baccalaureate in Theology
Bachelors in Religious Sciences and Pastoral Studies
Bachelor's Degree in Theological, Biblical studies and Ecumenical Dialogue

UNDERGRADUATE MARKETING AND DIFUSION

By supporting school communities, the Corporate Dissemination Department facilitates contact with future applicants and encourages brand strengthening in influential agents, coordinating and implementing relational, outreach, dissemination, marketing and event support actions in educational establishments.

The PUCV has always undertaken responsible dissemination, informing future applicants with transparency and thoroughness. Uncertain scenarios that began with the October 2019 social protests and continued with failed university selection tests, generated more anxiety and uncertainty in applicants, which is why, supporting them with reliable and real information, became a fundamental pillar of work in recent months.

In 2019, there was a 8,2% drop in the number of activities carried out compared to the previous year, due to the suspension of all activities after 18 October, especially those carried out in the Valparaiso Region in those months. However, about 80,000 potential applicants were contacted. This figure corresponds to the quantification of attendees of talks, degree panels, fairs, tours, and internships, and also includes social networks.

It is important to mention that in 2019 two PSU Trial Tests were conducted, with the assistance of 600 students from different backgrounds, in each of them. In addition, academic talks were conducted on specific topics, aimed at school communities, integrating not only students, but also teachers and staff. In addition, vocational workshops in some degrees generated interest.

Another initiative initiated in 2019 was the Virtual Open Day, consisting of a degree fair that is visually deployed on a virtual platform. It received 1,059 visits.

EQUALITY AND INCLUSION PROGRAMS

The PUCV aims to ensure access to quality higher education, with a view to the formation of a more inclusive and fair society capable of extending from the University to its surrounding environment.

This welcoming culture for its students and future professionals is manifested not only through its fair access programs to students in the Valparaíso Region who do not have sufficient resources to finance their studies and wish to continue their academic development, but also by promoting a culture of recognition, value for differences and non-discrimination between people, favouring attitudes of respect that promote a healthy, harmonious and discrimination-free life.

ACADEMIC TALENT INCLUSION PROGRAMS

The BETA, PACE and Preparatory programs aim to strengthen inclusive access to higher education for high performance students with academic talent from educational establishments in the Valparaíso Region from vulnerable socio-economic contexts.



BETA PROGRAM

With 14 years of experience, the BETA program is positioned as the only regional body serving the wide range of students with high academic capacity who study from 7th to 12th grade in the Valparaíso Region, offering quality educational opportunities for their integral development, with an emphasis on areas such as humanities, basic sciences, formal sciences, applied sciences, social sciences and marine sciences, enhancing prosocial behaviours and superior cognitive skills such as learning to learn, reflect and research.

In 2019 the program extended its coverage to the commune of Quintero and will also cover Puchuncaví thanks to an agreement through which students and teachers of the commune will start their work with the program in the academic year 2020.

N° OF STUDENTS BENEFITED IN EACH COMMUNE

COMMUNE	2018	2019
Valparaíso	121	94
Quilpué	45	47
Quillota	34	34
Casablanca	20	25
Quintero	-	29
Subsidised and Particular	35	43
TOTAL	255	272

Source: Beta Program, Vicerectorate of Academics

PACE PROGRAM

The Program of Accompaniment and Effective Access to Higher Education (PACE), promoted by the Ministry of Education, and implemented by the university for the 5th consecutive year, allows access to higher education for outstanding high school students and support their academic progress, protecting their performance and permanence in higher education. From an integral and inclusive perspective, the program aims to reduce the existing gap between secondary and tertiary education.

The program includes the preparation of students from middle school and their accompaniment when they enter the University, promoting their progress, permanence, and graduation from higher education.

PACE PROGRAM INDICATORS

	2018	2019
N° Educational Establishments	18	18
N° of students benefitted	1.834	1.905
Percentage of student retention	76%	76%

Source: PACE Program, Vicerectorate of Academics

PREPARATORY PROGRAM

The aim of the Preparatory Program, which began in 2015 as a Ministry of Education Improvement Project, is the development of critical academic skills for successful performance in the first years of study in higher education.

The program's training activities, which take place during the second academic semester, are framed within three main lines of work: comprehension and production of academic texts; development of mathematical logic thinking and development of skills for self-efficacy.

As part of the 2019 admissions process, 31 students entered the PUCV through the inclusive Preparatory Program, all considering it as their first choice of studies.

With regard to the program's retention rate, in 2019 there was a slight decrease from the previous year, due in the first place, to the proportional difference in new students relative to the current enrolment, and secondly, to the situation experienced in the country at the end of 2019, which motivated a percentage of students to suspend their studies.

Differentiated Training Experience

In 2019 the pilot experience of differentiated training implemented from 2018, was institutionalized. This program allows students with interest and motivation to enter degrees in the area of engineering, to take the subject "Mathematical Foundations" with a levelling option. A total of 28 new students were added to the 25 who had participated in the previous period.

PUCV Initial Training of Teachers of Excellence

In 2019, the pilot version of the Preparatory Program for the PUCV Initial Training of Professors of Excellence was implemented, as part of the Implementation Plan for the Strengthening of Initial Teacher Training at the Pontifical Catholic University of Valparaiso (UCV1897). This project is committed to improving undergraduate training processes for the development of teachers of excellence.

Through this program, strategic alliances are developed with establishments, enhancing the incorporation of subjects such as English, new schools for the 21st century, construction of mathematical thinking, personal self-efficacy and teaching vocation.

PREPARATORY PROGRAM INDICATORS

	2018	2019
N° Educational Establishments	48	52
N° of students benefitted	3.127	3.852
Percentage of student retention	98%	94%

Source: Preparatory Program, Vicerectorate of Academics

GENDER EQUALITY PROGRAM

Established in 2018, the Gender Equity Program is intended to **incorporate the gender perspective into the various university fields**, strengthening the construction of equitable relationships that prevent violence that is mainly exercised on women and sexual and gender diversities.

In this way, the university promotes a culture of recognition, the inclusion of differences and non-discrimination of students, not only in their interpersonal treatments, but also in their vision as future professionals. Likewise, and with regard to internal procedures and practices, a climate of respect continues to be strengthened that prevents manifestations of violence towards different identities, sexual orientations and gender expressions, in all institutional areas.



MAKING PROGRESS ON SDG5: GENDER EQUALITY

The main program areas include the promotion of gender equity and inclusion in the various university spaces, gender-sensitive training, the promotion of research and institutional studies in these areas, awareness raising and prevention of gender-based violence in its various forms and the connection with higher education institutions. In this way, the PUCV contributes to the advancement of the Sustainable Development Goals (SDG), specifically, to the SDG5: Gender Equality.



ACTIONS AND ALLIANCES 2019

- **Diagnosis of gender relations** at the university student level to provide relevant information to guide the required interventions.
- **Campaign to prevent sexual violence in the context of university parties**, in partnership with the Federation of Students, promoting a greater understanding of sexual consent.
- **Training of monitors for the promotion of gender equity** certified by the National Service of Women and Gender Equality (Sernameg).
- **Visibility of the program and socialization of its areas of action** with the different academic units and the entire university community, based on the study of cases of gender-based violence.
- Development of a **Policy and protocol for the recognition of gender identity and use of a social name**, which permits the definition of an institutional position in the matter, with student participation.
- **Work plan on prevention and resocialization**, in conjunction with the Commission on Prevention and Accompaniment in Abuse, Harassment, Violence and Arbitrary Discrimination.
- **Strengthening training with a gender perspective**, through the incorporation in 2019 of the fundamental training subject b-learning "Gender and Feminism: history and contemporary debates".
- Participation in **partnerships aimed at gender equity**, such as those generated by the Council of Rectors of Chilean Universities (CRUCH), the Council of Rectors of Valparaiso (CRUV), the Gender Equity Commission of the G9 Network of Non-State Public Universities and the Bureau of Universities for the Prevention of Violence against Women of Sernameg

ATTENTION PROGRAM FOR STUDENTS WITH DISABILITIES

The PUCV Inclusive Program aims to ensure equal access to knowledge and university life for all its students, valuing their characteristics and individual differences.

Its areas of work include raising awareness of the educational community, teacher training, promoting universal access and strengthening the participation of students with disabilities in collaborative networks.

During 2019 there was a considerable increase in the enrolment of Students in Situations of Disability (ESD) in relation to the previous year, enhancing a culture capable of advancing justice and reducing access gaps for people in contexts of hearing, visual, motor, cognitive and psychic disabilities.

Nº OF ENROLLED STUDENTS WITH DISABILITIES

TYPE OF DISABILITY	2018	2019
Sensory hearing	3	11
Sensory sight	-	6
Physical or motor	8	32
Mental cognitive	5	28
Mental psychiatric	2	3
TOTAL	18	80

Source: Attention Program for Students with Disabilities, Vicerectorate of Academics

Of the 80 students enrolled in the period, 23 entered their first academic year, which is why they received accompaniment in **coordination with their respective academic units**, promoting feedback and timely monitoring of their experiences to ensure greater well-being in the university environment.

In educational areas, in 2019 the program was awarded a **National Disability Service Project (SENADIS)**, which aims to “enhance the learnings of students with disabilities, to ensure the progress and continuity of their studies, through the generation of learning strategies in the classroom; to enable them to achieve adequate academic performance.”

The program also integrates the **Inclusive Higher Education Network (RESI)** which brings together public and private higher education institutions that promote inclusive education processes.

INCLUSIVE INFRASTRUCTURE IMPROVEMENTS IN 2019

In terms of inclusive infrastructure improvements, access adaptations were made in 2019, such as the enabling of an inclusive bathroom in the Monsignor Gimpert building and a side access ramp in the Cineteca from the Rubén Castro Building, favouring inclusion for all students with physical and motor disabilities within the educational system. In this way, it contributes to the progress of the Sustainable Development Goals (SDG), specifically “**SDG10: Reduced Inequalities**”.

10 REDUCED INEQUALITIES



LEARNING SUPPORT PROGRAM

The Department of Student Affairs (DAE) aims to increase the initial academic skills of undergraduate students, strengthening their learning processes and effective integration, as well as their pass rates and academic retention rates, through various strategies implemented by its Learning Support Unit.

PUCV ACADEMIC TUTORING

The objective of PUCV's Academic Tutoring Program is the acquisition and strengthening of academic skills in small groups of students along with a tutor in order to strengthen skills and knowledge in weaker areas. In 2019 a total of 514 students participated in the program.

PSYCHO-EDUCATIVE WORKSHOPS

In response to the need to strengthen psychoeducational traits and abilities in students in cognitive, emotional and attitudinal dimensions, students are offered a variety of strengthening workshops, in areas such as "Autonomy", "Anxiety Management in Academic Contexts", "Emotional Self-Management", "Time Management", "Learning Strategies" and "Study Habits". In 2019, 547 students participated in these workshops.

WELCOME, INDUCTION AND NEW STUDENT PROFILE

The Welcome and Induction Program envisages a set of actions that encourage the integration of new students into university life, through strategies such as diagnostic tests, fairs and trainings in the use of resources for learning and study habits.

In 2019, a total of 3,203 students participated in the various assessments, which addressed initial academic competencies, psychoeducational dimensions, development of formal logical thinking, learning styles and habits, among other areas of interest.

STRENGTHENING CRITICAL SCIENCE SUBJECTS

The Learning Support Unit implements reinforcements in order to level academic skills and improve the pass rates of students enrolled in mathematics, physics and chemistry that show weaker results and academic risk, with an approval rate of less than or equal to 50%.

This reinforcement space, in which 366 students participated in 2019, considers different actions for the levelling of initial skills such as the review of content, solving typical exercises and revision of the learning style.

ASSESSMENT AND IMPACT ON ACADEMIC RESULTS

In order to measure the impacts of the strategies implemented to improve students' academic performance and their academic efficiency indicators, all participants and beneficiaries undertake ongoing assessments.

In 2019, students participating in the Academic Tutoring Program show an approval rate of 83% in the subjects taken, followed by the students participating in the Critical Subject Reinforcement, which exhibited an approval rate of 73%.

Skills levelling program and psychoeducational supports for students were financed through public resources and with input from the University itself. These sources have been increased each year, facilitating an improvement in coverage and expansion of actions in this area.

QUALITY AND INTEGRAL EDUCATION

As part of its educational project and its institutional mission, the University seeks to provide a solid value, intellectual and professional training to all its students, attending to and appreciating their differences and contributing to their preparation for a full and fruitful life, both from a personal and community perspective.

FUNDAMENTAL EDUCATION

The University has a Fundamental Education Program for all undergraduate students, with the aim of transmitting the institutional set of values that emanate from its identity as a Catholic university with a public vocation of excellence.

During 2019, the focus was on consolidating the fundamental training proposal that considers and promotes the cross-cutting and structural curriculum skills, which are not reflected exclusively in these subjects, but also in other cross-cutting curriculum elements and with an impact on all university degrees, such as leaving profiles, skills matrix and programs, among others.

The program includes a set of subjects which enable the development of diverse skills such as verbal and written communication, the value of reading, development of self-learning, promotion of a healthy lifestyle and responsible citizenship, promoting scientific and reflexive skills, promotion of ethical behaviour and respect for human rights, promotion of arts and culture, environmental protection and the development of interdisciplinary skills that are highly appreciated and needed for the 21st century.

Of the 70 Fundamental Training subjects taught in the period, 27 promote learning that contribute to the advancement of the **Sustainable Development Goals (SDG)**, strengthening values that focus on progress that safeguards the balance of social, environmental and economic well-being.



2019 FUNDAMENTAL EDUCATION COURSES - ALIGNED TO THE SDG

SUSTAINABLE DEVELOPMENT GOAL (SDG)	FUNDAMENTAL EDUCATION COURSE
SDG 1: End of Poverty in all its forms	- Geography of poverty and social inequality
SDG 3: Good health and wellbeing	- Self-care and healthy living - Health: Personal responsibility and social responsibility
SDG 4: Quality education	- The teaching vocation - University and academic freedom in Chile
SDG 5: Gender Equality	- Gender and feminism: history and modern debates - Norms and gender
SDG 8: Decent work and economic growth	- Labour insertion
SDG 9: Industry, innovation and infrastructure	- Great engineering works: past, present and future - Innovation in my profession - Innovation and social entrepreneurship - Sustainability in engineering
SDG 10: Reduced inequalities	- Mapuche games (Araucanos) of Chile - Multi-culturalism and gender - Human beings and the Common Good: Fundamentals of Social responsibility
SDG 11: Sustainable cities and communities	- History, Heritage and Landscapes: from the city we were to the city we want to be
SDG 12: Responsible production and consumption	- The market economy: lights and shadows
SDG 13: Climate action	- Communication and climate change
SDG 14: Life below water	- The Chilean Ocean and the use of its living marine resources
SDG 15: Life on land	- Appreciation of the marvellous Chilean fauna - Environmental bioethics - Biosecurity - Ecological geography of Chile - Environmental bio-ethics workshop
SDG 16: Peace, Justice and strong institutions	- Citizenship training
SDG 17: Partnerships to achieve the goals	- Sustainability management

MINORS PUCV

Challenged by the complexity of an environment that demands greater flexibility and interdisciplinarity on a daily basis to meet the needs of society, the PUCV joined the trend of prestigious Institutions of Higher Education in Chile and the world with the initiative of undergraduate Minor degrees.

In 2019 the pilot plan of this certification was launched, which deepens and complements the academic training of students, under a specific thematic line.



MINORS PUCV 2019

SUBJECTS

MINOR IN ARTS AND CULTURE

The Art of Photography / Poetry in Rock / Poetic Creation: Seminar Workshop / Contemporary Theatre Workshop / Theatre Workshop: Initial Performance / Historical Evolution of Cinema / Contemporary Plastic / The Look of Painting / Law in Dialogue with Art / Law and Politics through Film and Literature.

MINOR IN HISTORY, TERRITORY AND SOCIETY

Ecological Geography of Chile / Geography of Greater Valparaiso / The Industrial Heritage of Valparaiso from a global perspective / Multiculturalism and Gender / Citizen Formation / Introduction to the History of the Accounting Revolution / Political and Electoral History of Chile / History, Heritage and Landscape: from the city we were to the city we want to be / The community criticism of Liberalism, Conservatism and Totalitarianism.

MINOR IN PEOPLE AND SOCIETY FROM THE CHRISTIAN VISION

Christian Anthropology / Christian Ethics / Environmental Bioethics / Faith, Church Politics and Social Doctrine / Religion After Freud / Sects and Worrying Proposals: The Rise of Magic and Esoterianism in Today's Society / Workshop on Environmental Bioethics / Reading Prophets / Prosocial Responsibility Challenge of Professional Exercise

MINOR IN INNOVATION AND ENTREPRENEURSHIP

Leadership and personal entrepreneurship / Creativity for entrepreneurship / Innovation and social entrepreneurship / Job insertion / Starting my business as a professional / Innovation for my profession

MINOR IN HEALTH AND HUMAN WELFARE

Self-care and healthy living / Man and games / Mapuche (Araucanos) Games of Chile / Body mediation / Health: personal responsibility and social responsibility / Traditional dances of Chile / Food, nutrition and health

Source: Vice rectorate of Academics

ENGLISH PROGRAM

Since its inception, the English as a Foreign Language Program has considered high standards of international quality, framed in the descriptors of the Common Framework of Reference for Languages and an updated modality of teaching supported by audio-visual resources generated by the University of Cambridge.

It has also aimed to address all the skills of oral and written communication in the English language, necessary for professionals of the 21st century, in order to facilitate their insertion and participation in contexts of multicultural and interdisciplinary performance.

Since its inception in 2011, the English Program has increased the presence of its four English courses as compulsory subjects in undergraduate degree curricula.

Thus, in 2019 and reflected by its scope, there was an increase in both the number of courses offered and the total number of students benefiting from them in relation to the previous period.

	2018	2019
Students who took the diagnostic test "Cambridge English Placement Test"	3.098	3.023
English courses offered	143	185
Benefitted students	2.819	3.699
Students certified with an advanced level	190	203

Source: English Program, Vice-rectorate of Academics

CONTINUOUS CURRICULUM IMPROVEMENT

The PUCV is constantly reviewing and improving its curriculum, incorporating constant changes based on the quality, importance and relevance required for the training of professionals today and in the future.

In this sense, the University considers the accreditation processes of each degree as being crucial, as well as the efforts and commitment of the different Academic Units to carry out the respective improvement plans. In this context, the following actions were carried out during 2019:

- **New academic offer:** during the year the engineering degree in Statistics was created.
- **Study plan modifications:** Medical Technology and Electronic Engineering curricula were modified.
- **Curriculum update:** Curricula of Civil Engineering degrees were updated, defining, among other aspects, the duration of the degrees in 11 semesters.
- **Curriculum renewal:** during the period, the degrees of Civil Engineering and Mechanical Civil Engineering completed this process.



UPDATING THE EDUCATIONAL MODEL

In a changing and globalized world, the PUCV faces the challenge of training professionals for the 21st century. This largely explains the institutional decision, contained in the Strategic Development Plan 2017-2022, to update the Educational Model, with the aim of adapting the training of people to the demands of today's society.

In the process, a study commission was created, national and international experiences reviewed, and previous institutional experience was analysed. Suggestions from "Pensemos PUCV" (Think About the PUCV), a consultation activity for the development of the Strategic Plan, were also addressed; and the approaches arising from the processes of self-assessment of the undergraduate and postgraduate programs were considered, generating a comprehensive process of participation with teachers, officials, students and employers.

STUDENT SUPPORT SERVICES

In 2019, 85% of PUCV students received some form of financial support or assistance, whether in terms of not having to pay fees, or by receiving scholarships, exemptions and/or educational loans.

The benefit of free education allowed access to higher education to a total of 8,178 students located between the first and sixth decile of socioeconomic income.

In addition, a total of 2,457 students accessed the University Loan Solidarity Fund, which is entirely funded from PUCV resources. This was slightly lower than in 2018, in response to the increase in students who obtained the benefit of free education.

Finally, 68% of students received a maintenance scholarship through PUCV or State support programs.

N° BENEFICIARIES - UNIVERSITY LOANS

INDICATORS	2018	2019
University Solidarity Credit Fund	2.597	2.457
State Guarantee Loan	2.727	2.773

N° BENEFICIARIES OF FEE SCHOLARSHIPS - FINANCED BY THE STATE

INDICATORS	2018	2019
Free Education Benefit	7.248	8.178
Bicentennial Scholarship	1.069	875
Children of Educational Professionals Scholarship	91	75
Valech Scholarship	34	24
Academic Excellence Scholarship	92	66
PSU Scholarship	1	1
Teacher Vocation Scholarship	886	829
Articulation Scholarship	3	3
Relocation Scholarship Universidad del Mar	2	1

N° BENEFICIARIES OF FEE SCHOLARSHIPS AND PRIZES - FINANCED BY THE PUCV

INDICATORS	2018	2019
PUCV Student Insurance	33	34
Rector Rubén Castro Prize	22	22
PUCV Scholarship	96	78
Isabel Caces de Brown Scholarship	119	102
Juan Fernández Scholarship	1	2
Rapa Nui Scholarship	3	3
Outstanding Admission Prize	265	294
PUCV Teacher Vocational Complementary Scholarship	887	829

N° BENEFICIARIES OF SUPPORT AND MAINTENANCE SCHOLARSHIPS

INDICATORS	2018	2019
Parent Student Scholarship	111	142
Lunch Scholarship	185	311
Residence Scholarship	380	436
Study Scholarship	212	277
President of the Republic Scholarship	641	617
Solidarity Bank Scholarship	28	27
Indigenous Scholarship	158	178
Sara Braun Scholarship	42	55
JUNAEB Lunch Scholarship (BAES)	9.046	10.061
JUNAEB Maintenance Scholarship (BEMES)	72	71
Territorial Integration Scholarship	55	60
UMAR Maintenance Scholarship	2	1
Indigenous Residency Scholarship	22	32
Patagonia Aysén Scholarship	85	93

STUDENT MEDICAL SERVICES

Through the Directorate of Student Affairs' Student Welfare Unit, personalized professional care is provided to students in the areas of psycho-educational, specialist and general medicine and dental care.

During 2019, the availability of professional hours in the Medical Service, in the various areas of care increased due to the incorporation of preventative strategies in mental health through attention applications and group sessions. The percentage of students who were attended to in 2019 grew by 12% compared to the previous period.

In terms of internal partnerships, the Medical Service works with the School of Psychology, the School of Kinesiology and the PUCV Medical Technology degree, in order to incorporate student practicals in their respective university clinics.

Likewise, as a result of a series of agreements with external institutions, the PUCV has allowed vulnerable students to be referred to different specialized care facilities.

UNIVERSITY LIFE AND STUDENT DEVELOPMENT

Committed to the integral development and well-being of students as the central axis of the university mission, the University offers various instances for their formative growth, favouring their physical, cognitive, emotional, social and creative strengthening, and promoting the cultivation of all their potential.

STUDENT ENTREPRENEURSHIP AND MANAGEMENT

Thanks to a trajectory developed over decades, the PUCV supports the management and entrepreneurship of its students as part of its mission of social vocation and educational strategy.

For this purpose, the DAE invited all students to present initiatives in the 4 competition areas that make up the program **"With your ideas: the university is alive"**:

Confia Fund: Finances cultural, environmental, recreational, pastoral or academic initiatives.

Social Action Fund: Supports student initiatives that focus their action on vulnerable sectors of the community, encourage the development of volunteer networks and interventions that promote social responsibility among students.

Teacher Network Fund: Supports projects aimed at generating and strengthening links between teachers and students by carrying out joint activities in meeting spaces outside the classroom, thus promoting a sense of belonging within their respective Academic Units.

Live Health Fund: Selects projects that promote healthy living and the good use of free time, through the practice of sport, recreation, and the promotion of healthy lifestyles.



SELECTED STUDENT PROJECTS - "WITH YOUR IDEAS: THE UNIVERSITY IS ALIVE" PROGRAM

COMPETITION AREAS	2018	2019
Confia Fund	55	69
Social Action Fund	21	20
Teacher Network Fund	10	13
Live Health Fund	25	30
Total projects received annually	145	186
Total projects selected annually	111	132

Source: Department of Student Affairs, Vice rectorate of Academics.



STUDENT WORKSHOPS

The PUCV offers all its students a series of free workshops in areas that favour cultural creation and expression, as well as the development of skills in various trades.

In 2019, a total of 1,357 students participated in these spaces, in courses such as choir, drawing, digital photography, guitar, theatre, contemporary dance, cooking, chocolate making, slackline and vertical vegetable gardens.

SOCIAL RESPONSIBILITY AND VOLUNTEERING

The PUCV supports a number of initiatives that promote the exercise of university social responsibility. These actions are coordinated through volunteer networks that have the professional support of the Directorate of Student Affairs and workshops and trainings are organized with the aim of promoting responsible leadership among students.

In 2019, 20 projects were financed through the Social Action Fund, which were distributed in the following areas: law and citizen participation, sustainable socio-environmental development, socio-artistic and cultural entrepreneurship, community networks and integration.

Of particular importance were the calls for socio-environmental volunteering and public space recovery actions in Valparaíso, which brought together more than 2,000 students in 2019, doubling the previous year's participation.

STUDENT EVENTS

In 2019, a series of activities, events and artistic cycles were carried out in order for university students to access quality cultural activities and to allow them to increase their knowledge and express themselves artistically and culturally in different instances. Music, Film, Photography and Literary Contests were held on campuses and university facilities.

QUALITY OF LIFE AND HEALTHY LIFESTYLES

The University has the PUCV Live Healthy Program that promotes a better quality of life among students through socio-educational interventions.

Along with the above, professional support and companionship was maintained through the student networks CONVIDA, ALERTA and PROMUEVE that permanently collaborate in the implementation of the program's activities.

In 2019, five health fairs and interventions were organized in which more than 4,000 students participated. In addition, trainings were implemented to train monitors in different preventive areas: sexual responsibility, prevention of drug and alcohol use, and healthy eating.

In partnership with universities of the Council of Rectors of Universities of Valparaíso (CRUV), the HIV prevention actions developed as part of the Alert program and the Interuniversity Commission were strengthened, implementing testing centres for the detection activities in which 721 students participated for the reported period.

RESOURCES AND EQUIPMENT

VIRTUAL CLASSROOM

With the aim of reducing the digital divide of the entire academic community, the university offers virtual and teaching support. In this way, in 2019 and in collaboration with the Department of Information and Communications Services, work was carried out on updating these learning environments, with an emphasis on creating support resources to improve their use and configuration.

The new version of the **Virtual Learning Environment** considers, among other modifications, the incorporation of inclusion criteria and universal accessibility, improvements in graphics, in its assessment tools and security devices.

PUCV ICT RESOURCES

The portal "**PUCV ICT Resources**" permanently incorporates new technological resources, positioning itself as a reference space for support and guidance for the improvement of teaching and learning processes through the use of ICT. This includes devices, software and applications that allow teachers and students to access up-to-date tools that enhance teaching and promote active learning and greater autonomy on the part of students, complementing with this the work carried out in the classroom.

LIBRARY SYSTEM

In 2019 the university had 5 main libraries and 9 specialized libraries with a total of 7,072m² of facilities, 1,933 study spots and 374,173 books, in addition to a full digital catalogue with books, specialized journals, theses, films and academic databases distributed across all campuses.

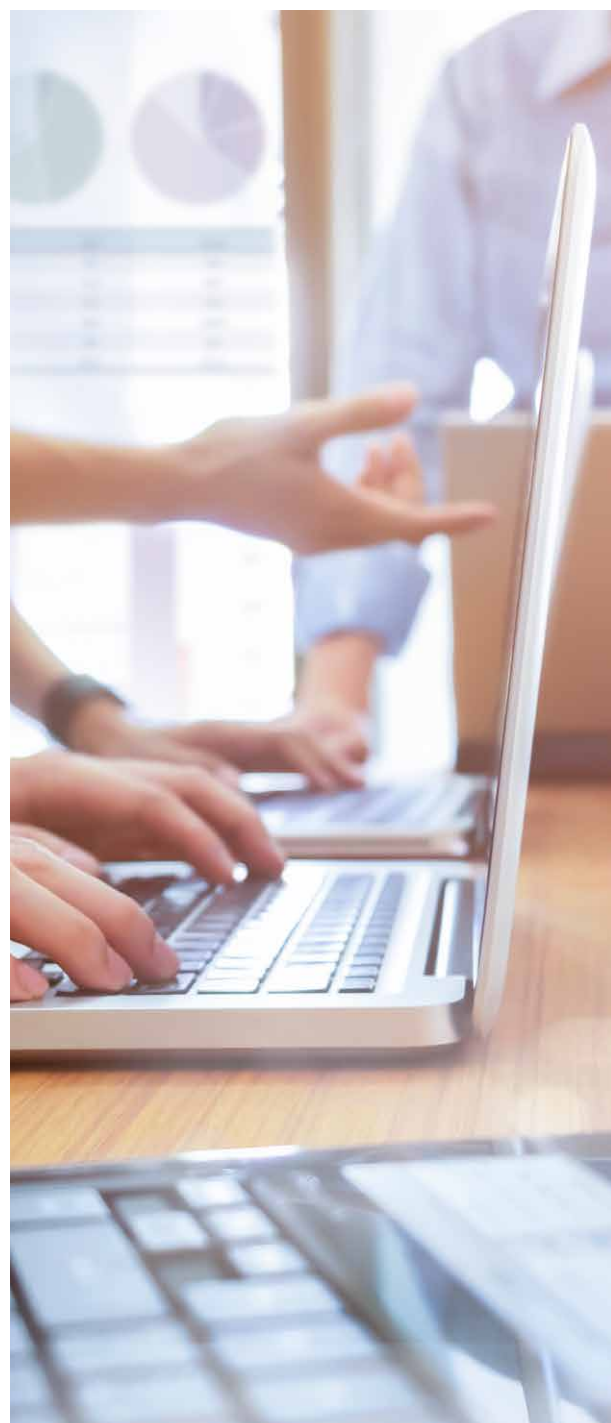
During the year, the **Library System** initiated a modernization process that seeks to actively influence learning, training and research processes, delivering quality services and relevant information resources in accessible, inclusive and collaborative physical and digital spaces according to the educational model and the needs of the university community.

ACTIVE PARTICIPATION CLASSROOMS (A3)

Active Learning Classrooms (A3) are spaces equipped with technological tools and methodological resources arranged to improve the teaching and learning process of students, through horizontal learning environments, moderated by academics that motivate students to learn, research and share their findings.

The university has three Active Learning Classrooms and thanks to a work in conjunction with the University Teaching Improvement Unit (UMDU), a workshop was held on university teaching on "Strategies to Promote Active Learning in A3 Classrooms".

The university provides its entire academic community with a set of resources and equipment designed to improve its educational processes, in line with the guidelines of the Strategic Development Plan, the Educational Model and the PUCV University Teaching Qualification Framework, in which it reaffirms its commitment to quality assurance, positioning Information and Communication Technologies (ICT) as an important learning element for the strengthening of teaching and the performance of its future graduates.



STUDENT MOBILITY AND EXCHANGE

The university maintains its commitment to support international student mobility, which is an element that distinguishes the institution nationally. A budget of 125 million pesos was assigned in 2019 to provide scholarships for students with special economic needs.

During the period a total of 194 students participated in the Student Mobility Program (PME), mostly to develop a semester of study abroad and dual degree visits.

In addition, through the Student Mobility Program, the Department of International Relations offers language classes (English, French and Italian). These classes are in addition to German classes taught by PALE in order to prepare students for their overseas studies in non-Spanish speaking countries. A total of 274 students participated in these courses in 2019.

At the same time, the International Student Exchange Program (PIIE) allowed 808 international students to pursue their studies in the PUCV in 2019.

STUDENT MOBILITY AND EXCHANGE

INDICATORS	2018	2019
Number of international students in the PUCV	817	808
Number of PUCV students on Exchange Programs	213	194

It should be noted that the main country of origin of international students was the United States, which accounted for 38% of the total, followed by Spain (18%); France (12%); Germany (6%); Italy (4%); Colombia (2%); and Mexico (4%).

MAIN COUNTRIES OF ORIGIN FOR EXCHANGE STUDENTS

COUNTRY	2018		2019	
	STUDENTS	%	STUDENTS	%
United States	433	53,0%	310	38,4%
Spain	97	11,9%	148	18,3%
France	62	7,6%	96	11,9%
Germany	39	4,8%	48	5,9%
Italy	26	3,2%	31	3,8%
Colombia	23	2,8%	13	1,6%
Mexico	21	2,6%	35	4,3%
Others	116	14,2%	127	15,7%

Source: Department of International Relations, Vicerectorate of Development

POSTGRADUATE EDUCATION

For more than nine decades, the PUCV has advanced in the consolidation, quality, positioning and variety of its postgraduate offer. In 2019 it had a total of 16 doctoral programs and 32 master's programs, taught to a total of 1,637 students.

With respect to its master's programs, the 2019 offer was reduced from the previous year pending three of its programs integrating new criteria to improve their processes, to re-operate in successive years and meet the quality standards to which PUCV is committed.

POSTGRADUATE INDICATORS

INDICATORS	2018	2019
Masters programs	37	32
Total enrolment in Masters programs	1.241	1.267
Masters Graduates	494	337
Foreign Masters Students	66	82
Masters Students with CONICYT Scholarships	42	40
Doctoral Programs	16	16
Total enrolment in Doctoral programs	359	370
Doctoral Graduates	50	55
Foreign Doctoral Students	57	65
Doctoral Students with CONICYT Scholarships	120	118
Percentage of postgraduate students in the total university enrolment	9,4%	9,2%

Source: Department of Graduate Studies, Vice rectorate of Research and Graduate Studies

DOCTORAL PROGRAMS

- Doctor of Aquaculture
- Doctor of Biotechnology
- Doctor of Agri-food Sciences
- Doctor of Engineering Sciences in Biochemical Engineering
- Doctor of Physical Sciences
- Doctor of Sciences in Chemistry
- Doctor of Law
- Doctor of Education in Mathematics
- Doctor of Philosophy
- Doctor of History
- Doctor of Industrial Engineering
- Doctor of Computer Sciences
- Doctor of Linguistics
- Doctor of Literature
- Doctor of Mathematics
- Doctor of Psychology

MASTERS PROGRAMS

- Master of Physical Activity for Health
- Master of Banking and Financial Markets
- Master of Agronomic and Environmental Sciences
- Master of Engineering Sciences in Electrical Engineering
- Master of Engineering Sciences in Biochemical Engineering
- Master of Sciences in Physics
- Master of Sciences in Microbiology
- Master of Communication
- Master of Law
- Master of Criminal Law and Penal Sciences
- Master of Education in Mathematics
- Master of Education in Experimental Sciences
- Master of Business Administration
- Master of Public Administration
- Master of Education in Educational Evaluation
- Master of Statistics
- Master of Latin American Cultural and Literary Studies
- Master of Philosophy
- Master of Aquatic Resource Management
- Master of Management
- Master of History
- Master of Environmental Engineering
- Master of Engineering in Construction
- Master of Industrial Engineering
- Master of Computer Sciences
- Master of Scholastic Organization Leadership and Management
- Master of Applied Linguistics
- Master of Mathematics
- Master of Clean Development Mechanisms and Energy Efficiency
- Master of Oceanography
- Master of International Relations
- Master of Social Work



POSTGRADUATE SCHOLARSHIPS

In 2019, the PUCV awarded 158 CONICYT external funding grants, a figure to which a total of 416 internal scholarships are added in the fee waiver, maintenance, completion of thesis, research trips, attendance at scientific events, and visiting professors and mentors.

N° OF POSTGRADUATE STUDENTS WITH CONICYT SCHOLARSHIPS

SCHOLARSHIP CATEGORY	2018	2019
Masters	42	33
Doctorates	120	125
Total	162	158

N° OF POSTGRADUATE STUDENTS WITH INTERNAL SCHOLARSHIPS

INTERNAL SCHOLARSHIPS	2018	2019
Fee waivers	183	202
Maintenance	87	131
Completion of Thesis	26	30
Research Trips	10	10
Scientific events	20	24
Visiting lecturers	15	16
Mentors	3	3
Total	344	416

TOTAL AMOUNT FOR INTERNAL SCHOLARSHIPS

YEAR	TOTAL AMOUNT
2018	M\$ 536.500
2019	M\$ 661.550

Source: Department of Graduate Studies, Vice rectorate of Research and Graduate Studies

INTERNATIONAL POSTGRADUATE PROJECTION

One of the commitments adopted in the Strategic Development Plan 2017-2022 is the consolidation of postgraduate programs and their international projection, a task that has been systematically worked on through the improvement of its accreditation indicators and the creation of new programs and scholarships to address the complexity of problems in the surrounding environment.

During 2019 there were 18 agreements signed with foreign universities, in addition to two co-degree agreements, thus consolidating their international projection and giving their doctoral programs greater levels of flexibility, through adaptation of application deadlines and the integration of virtual workshops for scholarship applications.

Finally, in 2019 the process of reception, induction and welcome of students was optimized, providing better tools and resources in order to improve their permanence and the quality of their stay.



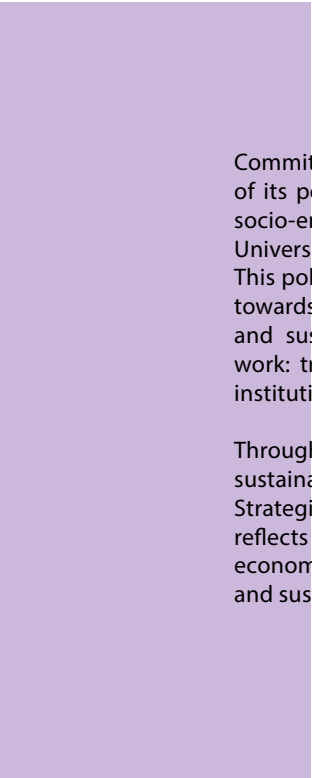


07

A QUALITY AND SUSTAINABLE UNIVERSITY

Strategic Objectives:

- Strengthen the development of the academic body
- Promote the continuous improvement of institutional processes
- Improve the management of financial, physical and information technology resources



Committed to the continuous improvement of its performance and aware of the existing socio-environmental challenges, in 2015 the University published its Sustainability Policy. This policy became the framework for moving towards the integration of good practices and sustainability criteria in all areas of its work: training, research, public relations and institutional management.

Through its fourth guideline, "A quality and sustainable university", the Institutional Strategic Development Plan 2017-2022 reflects the Institution's commitment to economic, social and environmental quality and sustainability.

In this way and from its management areas, the PUCV reaffirms its purpose of reconciling its growth with the care of people and the environment, ensuring quality and responsible management and use of resources.

ACADEMIC EXCELLENCE

Since its inception, the university has fostered the strengthening of a highly qualified and committed academic body, thus enabling a continuous improvement of their educational processes.

In 2019 the PUCV had a total of 1.427 academics with extensive experience in different disciplines. In addition, the institution has different opportunities for teaching improvement and promotion of research, for the development and enrichment of their performance, focusing on the present and future requirements of their students.

LECTURER CONTINUOUS IMPROVEMENT

The PUCV, through its University Teaching Improvement Unit (UMDU), ensures the maintenance and deepening of systems with a focus on the continuous improvement of its teachers, offering various spaces and tools to promote the updating and improvement of their knowledge and skills, in coherence with the PUCV University Teaching Qualification Framework.

UMDU INDICATORS 2019

	2018	2019
Full Time Equivalents (FTE)	674	677
Total Academics	1.426	1.427

2019 ACTIVITIES	Nº OF ACTIVITIES	Nº OF TEACHERS BENEFITTED
Diploma in university teaching	1	30
Workshops in university teaching	22	391
Advisory services	2	18
Innovation and Improvement Projects	19	52
Assistant Teacher Training	4	121

Source: Unit for Improvement to University Teaching (UMDU), Vice rectorate of Academics



DIPLOMAS IN UNIVERSITY TEACHING

In 2019 the tenth version of the Diploma in University Teaching allowed a total of 30 academics to strengthen their teaching skills to improve the quality of undergraduate learning.

WORKSHOPS IN UNIVERSITY TEACHING

In order to develop skills for the design and application of concrete improvements in university teaching, the workshops added in their four annual seasons a total of 391 academics, in their face-to-face, semi-presential and virtual modalities.

ADVISORY SERVICES BY THE UMDU

Through its advisory services, the Unit for Improvement to University Teaching (UMDU) provides answers to specific needs of the academic units related to improvement in university teaching. In 2019, advisory services were given to three academic units and 18 academics.

PROGRAM FOR THE IMPROVEMENT AND INNOVATION OF UNIVERSITY TEACHING

The program offers **pedagogical and financial support for the development of initiatives** by teaching teams, which promote learning in undergraduate students. In 2019, 52 academics from 19 academic units received support to implement 29 projects. Of these projects, 26 were completed due to the national context in October 2019.

ASSISTANT TEACHER TRAINING PROGRAM

Program aimed at developing pedagogical tools in teaching assistants, to strengthen learning in undergraduate courses. In 2019, through the use of **semi-presential workshops**, a total of 121 assistants graduated, as opposed to 194 graduates in 2018. In contrast to previous years, in 2019 a series of specific trainings were implemented with a focus on Initial Teacher Training, both in the School of Agronomy and the School of Law.

ICT RESOURCES

In order to promote the autonomous learning of teachers through **Information and Communication Technologies (ICT)**, in 2019 the UMDU developed a series of resources which included 24 videos of teaching innovations, a formative capsule and 36 info graphs, resources and tools to exemplify good teaching practices and give concrete guidelines for the design of planning, teaching and evaluation tools.

LECTURER EVALUATION SYSTEM

As part of its culture of evaluation and continuous improvement, the university's Lecturer Evaluation System reached an average response rate of 93% to its 4 measurement instruments: Student Opinion Questionnaire; Teacher Performance Self-Evaluation Questionnaire; Student Opinion Questionnaire on Intermediate Teaching Practices; and Student Opinion Questionnaire on Final Teaching Practices. These questionnaires have been applied consistently since the first semester of 2017.

QUALITY ASSURANCE

In 2018 the new Higher Education Law was promulgated, which substantially modified the Law of Quality Assurance. Thanks to the systematic and consolidated work by the university on these matters, it was possible to deal successfully with the legal changes, thus continuing the path of quality and continuous improvement of its teaching processes.

In 2019 the University Quality Assurance Policy was designed and will be presented to the Superior Council in January 2020.

Work was also carried out on strengthening the internal quality assurance system, and on the preparation of non-accreditation self-assessment procedures for non-compulsory undergraduate programs, and for Master's programs that are not accredited under the National Accreditation Commission.

DEGREE ACCREDITATIONS

Complying with mandatory accreditation imposed by the law to teaching degrees, in 2019 the University worked on the self-evaluation process for the Teaching in Mathematic, Spanish Teaching and Communication, Basic Education, Music Teaching and Philosophy Teaching Degrees.

In addition, non-accreditation self-assessment processes were developed in five degrees: Transportation Engineering, Mechanical Engineering, Civil Engineering, Medical Technology and Civil Mining Engineering.

The following masters degrees were accredited:

- Master of Scholastic Organization Leadership and Management, accredited for 4 years.
- Master of Education in Experimental Sciences, accredited for 6 years.
- Master of Criminal Law and Penal Sciences, accredited for 5 years.
- Master of History, accredited for 6 years.
- Master of Engineering Sciences in Biochemical Engineering, accredited for 7 years.
- Master of Engineering Sciences in Electrical Engineering, accredited for 3 years.

And the following four doctoral degrees were accredited:

- Doctor of Agri-food Sciences, accredited for 3 years.
- Doctor of Education in Mathematics, accredited for 4 years.
- Doctor of Aquaculture, accredited for 5 years.
- Doctor of Philosophy, accredited for 2 years.

In relation to postgraduate programs, the average doctoral accreditation was 4.5 years, with 15 accredited programs, or 94%, representing one of the highest percentages nationally. The average master's accreditation reached 5.5 years, with 15 accredited programs.

CURRICULUM COMMITTEE FOR QUALITY ASSURANCE

As part of the University's commitment to the quality of its teaching, since 2019 curricular committees have been formed in all academic units. These committees are advisory bodies aimed at strengthening aspects of self-regulation, improving learning teaching processes and feedback from undergraduate curricula.

These committees are made up of executives, teachers, students, alumni and employers.

RETENTION AND TIMELY GRADUATION

Thanks to its assistance and support programs for students, and all of the efforts employed by the institution to raise the levels of quality and efficiency of its training processes, in 2019 there was a general improvement in the indicators of academic retention, with an increase in the percentage of first year postgraduate students retained.

In addition, there was a reduction of the time period to graduate for undergraduate students. This was accompanied by an increase in the rate of timely graduation for undergraduate and doctoral programs.

	2017	2018	2019
ACADEMIC RETENTION			
Retention of first year undergraduates	80%	80%	80%
Retention of first year master's students	85%	88%	89%
Retention of first year doctoral students	94%	95%	97%
TIME TAKEN TO GRADUATE			
Time to graduate – undergraduate degrees (in semesters)	14	13,4	13,2
Time to graduate – master's degrees (in semesters)	6,1	5,9	6,4
Time to graduate – doctorates (in semesters)	12,8	11,7	11,9
GRADUATION RATE			
Timely graduation rate – undergraduate degrees	23%	23%	24%
Timely graduation rate – masters	47%	57%	50%
Timely graduation rate – doctorates	34%	26%	37%

Source: Department of Institutional Analysis and Strategic development

PERSONNEL MANAGEMENT

The University promotes in its organizational culture the commitment of people to the Institution and the promotion of harmonious interpersonal relationships. In addition, it strives to strengthen the personal and professional skills required by its staff, consistent with the relevance of the tasks assumed in its commitment to quality and sustainability.

Another central aspect of staff management in the PUCV is its concerns for the stability and well-being of its employees and families.

In this way, the University contributes to the **Sustainable Development Goals (SDG)** of the 2030 Agenda, specifically Objective 8 which seeks to “promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all”.

TRAINING AND DEVELOPMENT

In recognition of the value of learning for continuous improvement, the university promotes a culture of evaluation, training and development of its administration and services staff.

One of the ways in which the University moves forward in this regard, are the working commissions established in its collective agreements, which recognize the crucial role that staff play not only in achieving the objectives set out, but also for the integrity and quality of university services.

By means of the annual training plan, the institution focuses on strengthening personal and professional capabilities and skills, responding to the needs identified in the performance evaluation process.

In 2019 a total of 18.957 hours was spent on training, reaching an average rate of 38 hours per staff member, with an emphasis on topics related to informatics, the use of web platforms, hazardous waste management and quality of service.

TRAINING PLAN

PROGRAM	2018 N ^o of Hours	2019 N ^o of Hours
Appropriation of the English Language Program	3.435	4.826
Job Position Requirements Program	50.593	2.546
Professional Training Program	594	11.585
Total training hours	59.066	18.957

Source: Department of Administration, General Direction of Economic and Administrative Affairs.

DUAL TRAINING COMMITTEE

According to the applicable public policy, in May 2019 a new Dual Training Committee was established, in order to support compliance with the defined strategic guidelines and promote the development of staff member's professional skills, through an institutional training plan focused on improving the quality of service from administration and services personnel.

TRAINING HOURS BY GENDER

	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Total number of training hours	22.333	31.928	5.146	13.811
N° of employees	622	611	634	658
Average hours by gender	35,56	60,47	8,13	20,99

Source: Department of Administration, General Direction of Economic and Administrative Affairs.

TRAINING HOURS PER EMPLOYEE CATEGORY

	N° OF EMPLOYEES	2018		2019		
		TOTAL TRAINING HOURS	AVERAGE HOURS BY CATEGORY	N° OF EMPLOYEES	TOTAL TRAINING HOURS	AVERAGE HOURS BY CATEGORY
Academic	0	0	0	12	191	16
Administrative	72	5.828	81	72	2.332	32
Agricultural	0	0	0	1	8	8
Catering	3	326	108	2	42	21
Assistance	144	11.151	77	116	3.074	27
Library	11	653	59	0	0	0
Professional and Technical	286	20.209	71	184	7.457	41
Secretaries	140	13.060	81	92	5.097	55
Services	55	3.694	76	21	698	33
Directors	2	166	91	0	0	0
Management	17	407	24	3	58	19
TOTAL	731	54.261	82	503	18.957	38

Source: Department of Administration, General Direction of Economic and Administrative Affairs.

BENEFITS

The PUCV provides a series of benefits focused on staff welfare that contribute to the quality of life, professional satisfaction and family group prosperity. These benefits relate to aspects such as housing, education, family, health and insurance, amongst others. Some of these benefits have historically been provided by the Institution and others have been added on the basis of collective bargaining process.

With a history of 45 years since its inception, the Staff Wellbeing System funds a series of benefits, which in 2019 reached an annual refund amount of 392 million pesos.

BENEFITS OF THE SOCIAL WELFARE SYSTEM

	2018	2019
Annual amount provided	\$403.000.000	\$392.699.230

Source: Department of Administration, General Direction of Economic and Administrative Affairs.

Amongst the supports described above, the "1+1 System" should be highlighted. Through this mechanism, the university contributes the equivalent of the contribution made by its members on a monthly basis.

One of the most valued benefits is the financing of 100% of the annual fee in undergraduate degrees for children of academic and administration and services staff, throughout the period of the chosen degree. In 2019 this benefit supported the families of 138 employees and the education of 192 children, for an amount of 498 million pesos.



HEALTH AND INSURANCE

- Life insurance.
- Catastrophic insurance.
- Health exams for all staff members.
- Payment for the first three days of medical leave.
- Flu vaccination.
- Agreements with clinics and opticians.
- Reimbursement of medical expenses, dental and ophthalmic consultations.



FAMILY

- Creche monthly bonus.
- Vacation or school loans.
- Agreements for school purchases.
- Summer camp for children of staff members.
- Winter holiday activities for children staff members.
- Children's day celebration.
- Vocational orientation workshop.



RECOGNITIONS

- Prize for years of service.
- Prize for academic and research excellence.



HOUSING

- Assignment for house purchases.
- Loans.
- Assessments.
- Deposit agreed for housing purposes 1+1.



EDUCATION

- 100% undergraduate scholarship for children of PUCV staff members.
- 50% fee scholarship for children of PUCV staff members in CFTUCEVALPO.
- Student bonuses loans.
- Study leave.



ADDITIONAL BENEFITS

- Emergency loans.



ASSISTED RETIREMENT PROGRAM

This program offers a number of actions and benefits aimed at supporting the transition of its employees into retirement, including individual counselling, briefings and compensation for years of service.

During 2019 the program extended its coverage, anticipating the participation of employees within two years of the fulfilment of their legal retirement age. More than 50 PUCV employees participated and were supported by the mechanism.

OCCUPATIONAL HEALTH AND SAFETY

In safeguarding the integrity, health and well-being of its workers in the performance of their functions and in compliance with current regulations and guidelines, the PUCV promotes a culture of risk prevention, ensuring the constant improvement of its plans, procedures and protocols.

HYGIENE AND SAFETY JOINT COMMITTEES

In 2019, PUCV established a fourth Joint Committee on Hygiene and Safety at the School of Biochemical Engineering, joining the three existing committees in the Faculty of Agronomy, Curauma Campus and Central House, all composed of designated representatives and members elected by the workers who support the management of the Risk Unit.

During the period, the University participated in the XIX National Congress of Joint Committees of Chilean Universities which was attended by 21 other universities in the country and allowed effective feedback between the different institutions, promoting debate and collaborative reflection on challenges and improvements in the field of occupational health.

RISK PREVENTION WORKSHOPS

The Risk Prevention Unit, in conjunction with the Institute of Labour Safety (IST), conducted a series of trainings during the year aimed at strengthening self-care and preventive culture in the different roles of workers, adding a total of 229 workers trained in 2019.

It should be noted that as a product of the social crisis, the timetable for training was interrupted, and some of these activities had to be postponed until 2020.

EVACUATION DRILLS

In September 2019, the PUCV joined the Second Regional Coastal Zone Evacuation Drill, planned by the ONEMI Regional Directorate, Valparaiso Region, which aimed to verify the proper functioning of the human and material means provided for emergencies, specifically those caused by earthquakes and/or tsunamis.

CONTRACTOR STAFF

The PUCV requires and ensures compliance with the legal regulations established in Law 20.123/2007 for contracting companies and subcontractors. Alongside this it establishes safety procedures in all the tasks that are carried out, mainly in those that generate a high risk, such as work in dining halls, maintenance of green areas, cleaning services, work at heights, excavations, cranes and those involving the use of abrasives, compressed gases and any other critical equipment.

PSYCHO-SOCIAL RISK EVALUATION

During 2019, with the advice of professionals in the IST area, the implementation of the Psychosocial Risk Protocol based on the "2018 Method Manual" was updated through the formation of an Implementation Committee (CDA) for the university facilities that required it.

The CDA complied with the requirements of parity in terms of worker and employer participation, with officials from the Joint Committee on Hygiene and Safety, Human Resources area, trade unions and prevention personnel.

COURSES AND WORKSHOPS 2019

- Accident investigation with causal methodology.
- Use and handling of fire extinguishers.
- Defensive bike handling.
- Use and handling of portable extinguishers.
- First Aid.
- Handling hazardous substances.



SAFETY INDICATORS

Thanks to the ongoing training of its workers on issues related to the safeguarding of their occupational health and safety, and as a result of a work culture that has focused on the prevention, supervision and inspection of cases, the accident and severity rates have remained low in 2019, which is why the rate of contribution is in the lower risk category.

Accidents that were filed for the reported period were entirely moderate and mild, as in the previous year. In this way, in 2019, 69% of cases associated with accidents at work were recorded, 22% were recorded in journeys to work and, finally, 15% to occupational diseases.

	2018	2019
Accidents at work	66%	69%
Accidents in journeys to work	22%	31%
Professional diseases	15%	0%

	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Accident Rate	2,36	1,33	2,4%	1,9%
Total Accident Rate	1,9		2,1	
Severity Rate	60,71	30,99	50%	21%
Total Severity Rate	47,41		34,7	

Source: Statistical registers of the Work Safety Institute (IST).

LABOUR RELATIONS

The University has maintained and strengthened relations with its workers inspired by a culture of permanent dialogue, fuelled by a climate of trust and mutual collaboration that materializes through two collective agreements that not only establish economic conditions, but also a significant number of working commissions that seek to face in a peaceful and dialogue way, the new challenges, topics or differences to be resolved.

Thus, by 2019, the PUCV had a unionization rate of 72% of its non-academic staff, a figure that matched that of 2018 and continues to far exceed the national average, constituting a value for the stability and sustainable development of the University.

In this way, a total of 932 workers are represented in the two trade unions: "Alberto Hurtado Cruchaga" and "Workers No.1".



UNIONIZED WORKERS

	2018	2019
Number of unionized employees	890	932
Total number of employees	1.233	1.292
Proportion of unionized non-academic employees	72%	72%

Source: Administration Department, General Direction of Economic and Administrative Affairs

STAFF REMUNERATIONS

The University has a remuneration scale that sets salary categories and ranges by degree, in its commitment to a transparent, adequate and equitable remuneration system. Moreover, the ratio of the value of the total remuneration of the 90th percentile to the 10th percentile for 2019 remains at 5,6, equal to the previous year.

A major advance in wage matters is the agreement reached in December 2019, where the University commits to a monthly gross remuneration of not less than \$500,000 for its full-time workers as of January 2020.

STAFF NUMBERS

The university considers its staff members as the cornerstone for the effective fulfilment of its institutional mission. In 2019, it had a total of 1,292 administration and service workers and 1,427 academics.

With regards to diversity-related indicators, in 2019 female participation reached 51% in the administration and services area, surpassing the 49% registered in 2018. The same increase is seen in the academic area, where there is a 38% to 39% increase.

In the same area, the University's Higher Council, the highest governing body of the PUCV, is made up of 85% of men and 15% of women, slightly receding from 2018, when the organ was composed of 79% of men and 21% of women.

As for the age range of management and service staff, in 2019, 62% were made up of people between the age of 30 and 50, maintaining the same values as the previous year.

Moreover, the turnover rate of management and service personnel for the reported year was 17,27%, a figure that is explained by an increase in the professional and technical segment by contracts in projects.

ACADEMIC STAFF

TIME	2018			2019		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Full time	177	358	535	179	355	534
Part time	21	23	44	22	23	45
Amplified Part Time	13	7	20	13	5	18
Per hour	327	500	827	336	494	830
Total	538	888	1426	550	877	1427

ADMINISTRATIVE AND SERVICES STAFF

STAFF BY CONTRACT TYPE AND GENDER (AVERAGE MONTHLY FIGURES FOR EACH YEAR)

TYPE OF CONTRACT	2018			2019		
	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL
Indefinite	539	508	1.047	562	556	1.118
Fixed Term	84	102	186	72	102	174
Total	623	610	1.233	634	658	1.292

Source: Administration Department, General Direction of Economic and Administrative Affairs

STAFF BY CONTRACT TYPE AND REGION

TYPE OF CONTRACT	2018		2019	
	VALPARAISO REGION	METROPOLITAN REGION	VALPARAISO REGION	METROPOLITAN REGION
Indefinite	1.036	11	1.107	11
Fixed Term	183	3	171	3
Total by region	1.219	14	1.278	14
Total	1.233		1.292	

STAFF BY EMPLOYMENT TYPE AND GENDER

EMPLOYMENT TYPE	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Administrative	40	45	40	47
Agricultural	18	1	17	0
Catering	10	5	11	6
Assistance	166	47	167	56
Library	11	6	11	4
Professional and Technical	278	318	292	358
Secretaries	0	164	0	164
Services	63	0	61	0
Management	19	19	16	19
Directors	16	7	17	6
Total by gender	621	612	632	658
Total	1.233		1.292	

TOTAL NEW HIRES AND TURNOVER OF ADMINISTRATIVE AND SERVICE STAFF BY GENDER

	MALE	FEMALE	TOTAL	% OF WORKFORCE
Hiring's 2018	85	139	224	18,2%
Turnover 2018	95	102	197	16,0%
Hiring's 2019	96	147	243	18,8%
Turnover 2019	82	111	193	14,9%

TURNOVER RATE OF ADMINISTRATIVE AND SERVICE STAFF

	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Turnover rate by gender	14,5%	19,4%	14,2%	20,3%
Overall turnover rate	17,07%		17,27%	

TOTAL HIRINGS OF ADMINISTRATIVE AND SERVICE STAFF BY AGE GROUP

	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Less than 30 years	36	52	38	58
Between 30 and 50 years	43	72	50	76
Over 50 years	6	15	8	13
Total by gender	85	139	96	147
Consolidated total	224		243	

TOTAL TURNOVER OF ADMINISTRATIVE AND SERVICE STAFF BY AGE GROUP

	2018		2019	
	MALE	FEMALE	MALE	FEMALE
Less than 30 years	24	35	16	31
Between 30 and 50 years	44	23	47	61
Over 50 years	22	23	19	19
Total by gender	95	102	82	111
Consolidated total	197		193	

Source: Administration Department, General Direction of Economic and Administrative Affairs

ECONOMIC MANAGEMENT

The University has sought to maintain a strong financial position to ensure its sustainability in the long term, through responsible, rational and balanced economic management, in order to contribute to the achievement of the objectives set out in the Strategic Development Plan.

In this regard, a number of initiatives have been implemented that aim to increase the efficiency, effectiveness and good use of institutional resources, which have earned it the growing and sustained recognition of the university and financial sector.

In addition, the promotion of greater and necessary diversification of existing sources of funding has been strengthened. Below is the information on relevant aspects associated with the university's economic management in 2019.

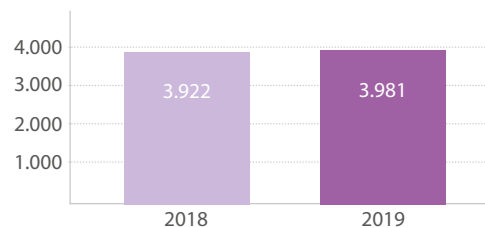
INSTITUTIONAL DEBT

Over the last few years the university has resorted to borrowing through the financial sector only to solve its policy of annual disengagement of academic staff and with the aim of financing infrastructure projects as part of the implementation of the Master Plan of Physical Spaces.

This is done in such a way as to ensure that debt levels that do not jeopardize the financial balances of the Institution are maintained.

In return, all operational and short-term requirements are covered by resources from funding sources linked to the annual budget, mainly derived from undergraduate activity and associated fees.

Debt Servicing of the PUCV (million pesos)



Source: Department of Finance, General Direction of Economic and Administrative Matters

In 2019, there was a slight increase in the total amount of debt servicing as a result of the loan for the construction of the Civil Engineering and Construction Schools building in the latter part of the year, which meant a lower debt service burden.

The balance between the 2018 and 2019 numbers, is due to the end of the debt service for the credit for the construction of the first infrastructure works on the Curauma Campus in 2007.

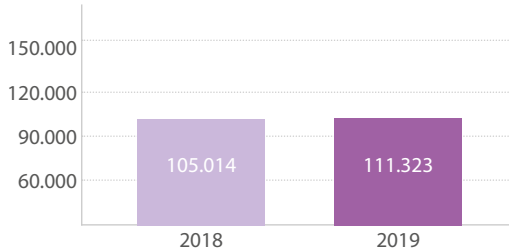
INSTITUTIONAL INCOME

With regard to the resource allocation regime, the University is governed by the annual budget, an instrument that guides the institution's income and expenditure.

This annual budget is presented by the Rector and subject to the revision and approval of the Higher Council. It is the tool that, through the use of financial flows, guarantees both the normal operation of the university in its different areas of development, and the fulfilment of actions, plans and projects associated with the Strategic Development Plan.

The following figure shows the evolution of income from ordinary activities, recorded in the Institution's financial statements as of 31 December 2019 in comparison to the previous year. This was impacted, inter alia, by public policy on financing higher education, as well as by the increase in technical cooperation and other activities associated with academic and research work.

Ordinary Activity Income (million pesos)

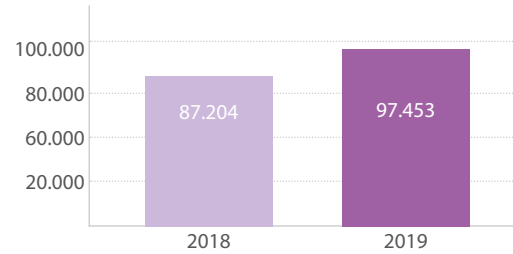


Source: Department of Finance, General Direction of Economic and Administrative Matters

ASSETS

In 2019, there was an increase in the university's equity with respect to the previous period, which translated into an increase from 87.204 million to 97.453 million pesos. The increase is explained, amongst other aspects, by the accumulated results of the latest period shown in this report.

PUCV Assets (million pesos)



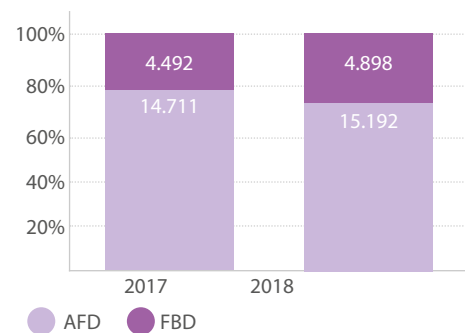
Source: Department of Finance, General Direction of Economic and Administrative Matters

SUPPORT FROM THE STATE

With regard to the contributions received from the State, it should be noted that both baseline contributions and direct tax input increased as a result of ministerial definitions in this area and the institutional indicators associated with the delivery of these resources.

These resources are mainly aimed at achieving actions associated with the Strategic Development Plan, as well as the financing of improvements in the areas defined as priorities by the Superior Authority with regard to the delivery of a quality service in the educational field.

Support received from the State (million pesos)



Source: Department of Finance, General Direction of Economic and Administrative Matters

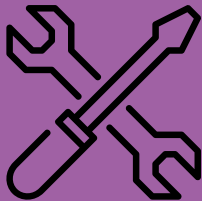
SUPPLY CHAIN

With regard to its supply chain, the University outsources services in the areas of surveillance, dining halls, maintenance, cleaning and passenger transport, thus ensuring the continuity and operation of the services offered, complying with the regulations required for these companies according to the Outsourcing Act No. 20.123.

The following are the expenses associated with the suppliers mentioned above:

2018	2019
2.268.573.170	2.561.656.318

Source: Department of Finance, General Direction of Economic and Administrative Matters



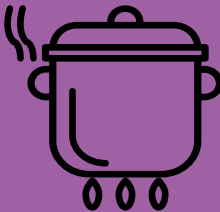
MAINTENANCE

Of central importance to the University are the maintenance of spaces and systems, in order to allow the safe and efficient operation of all its facilities. The Maintenance Unit is in charge of supervising outsourced services. In 2019, progress was made in the development of the "Supplier Register", organised by category of contractors and work costs, thus improving standards of institutional integrity and transparency.



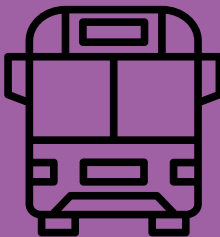
CLEANING SERVICES

With regard to cleaning services, part of the operations on the Curauma Campus have been outsourced to a company that must comply with The Outsourcing Act No. 20.123, and it is the responsibility of the Services Unit to monitor that the facilities are properly sanitized and in optimal condition.



CATERING SERVICES

In order to ensure food service for the entire university community, the PUCV outsources its dining hall services, with the Food Services Unit monitoring quality, hygiene and health standards in the handling of the food offered.



TRANSPORT SERVICES

The University has buses that allow transport to and from the Curauma and Quillota Campuses, with updated and available time information on the institutional website. The Mobilization Unit is responsible for monitoring compliance with the planned schedules, as well as the regulatory compliance of the Ministry of Transport.



SURVEILLANCE SERVICES

The PUCV Services and Surveillance Unit is responsible for ensuring that staff from external companies, with a presence in the different PUCV schools and institutes, comply with Law No. 20.123 and the "OS-10 Operating Directive - Private Security Office of the Police", so that all surveillance personnel are in full compliance with requirements.

INVESTMENT AND PROGRESS IN INFRASTRUCTURE

During 2019, the PUCV carried out 79 works of different size on its different campuses with an investment of more than 10,3 billion pesos. The effects of these works on increasing square meters built will be observed in 2020.

The Department of the Master Plan carried out a complete audit of square meters of all the campuses and facilities used by the University. According to these results an adjustment was made to the square meters reported in 2018.

INFRASTRUCTURE INDICATORS

	2018	2019
Built Surface area (M2)	165.375	166.817
Investment in infrastructure (millions of pesos)	5.785	10.300
M2 per student	10,7	10,3

Source: Department of the Master Plan, Vice rectorate of Development.

MAIN WORKS UNDERTAKEN

- **Finished projects:** School of Psychology building, Sausalito Campus.
- **Pilot projects:** new building for Civil Engineering and Engineering in Construction, Brasil Campus .
- **Projects started:** new buildings for Ocean Sciences on the Curauma Campus; and the Business School on the Recreo Campus.
- **Remodelling projects:** auditorium in the IBC Building; student common room and patio in the Engineering Faculty .
- **Universal Access improvement projects:** second floor, Sausalito Campus.
- **Expansion projects:** Sausalito Campus Dining Hall.



SCHOOL OF PSYCHOLOGY WORKS COMPLETED

The new building of the School of Psychology located on the Sausalito Campus symbolizes the consolidation of its long history. The property consists of four levels distributed over 1,240m² and houses academic, teaching, extension and research activities. It also includes the Psychological Clinic, which performs important social work in the field of mental and community health, and which for the first time, will be located within University facilities.



MEDICAL TECHNOLOGY BUILDING IS NOMINATED FOR "PROJECT OF THE YEAR" COMPETITION

The building, whose design was developed by the Department of the Master Plan, was nominated for the Arch Daily Portal competition, a showcase of international recognition in architectural projects. The four-story property has a total of 3,200m² and consists of a series of energy-saving elements such as solar panels, efficient heating systems and LED lighting, which reduces the carbon footprint by 5,9 tons of CO₂ per year, thus adapting to social demands for sustainable infrastructure.

SUSTAINABLE CONSTRUCTION

The University has incorporated in its trajectory and, with special emphasis, in the last four years, a series of elements and criteria that have led to the advancement of sustainable building standards in the projects developed by the Department of the Master Plan.

In this way, the University has consolidated a standard of design and construction for all new initiatives that leverages spatial orientations to amplify the benefits of natural lighting, uses LED lighting fixtures, solar hot water systems water-saving sanitary appliances.

In the projects under construction and completed for 2019, sustainable design criteria such as the use of taps with aerators for the reduction of water consumption, development of air conditioning and energy projects with an emphasis on energy efficiency and use of reflective or solar control crystals to improve thermal and energy-saving conditions on facades with greater exposure to solar radiation have been added.

In order to consolidate the incorporation of these criteria, the Department of the Master Plan has proposed the development of a Sustainable Design and Construction Manual that will bring together not only the measures already implemented in the development of its projects, but also a series of good practices and experiences of Chilean and foreign universities.

This manual, which will be developed over the course of 2020, aims to be a valuable guide and roadmap for the development of all future projects.

URBANISTIC DEVELOPMENT

The works developed by the PUCV incorporate architectural elements that contribute to the urban development of its surroundings, providing infrastructures that integrate into the community and enhance its development.

Integrating projects into the direct urban environment: a connected design has been enhanced between university and city. This is the case of the new Psychology building located on the Sausalito Campus, in which university activity is made visible by means of facades that incorporate large glass windows, favouring a communication with its surroundings.

Projects that respect the community in which they are located: taking into account the value of interactions between university and its surroundings, all necessary mitigation measures were contemplated, as well as a permanent communication with the neighbouring communities regarding the works of future buildings on the Recreo and Brasil campuses.

Source: Department of the Master Plan, Vice rectorate of Development

ENVIRONMENTAL MANAGEMENT

The PUCV has increased its resources and efforts to **advance on sustainable development** topics in line with the Sustainable Development Goals (SDG). This is part of the call for all areas of the university to strengthen their adherence to wide-ranging human goals, both local and global, in dimensions of environmental protection, social justice and economic prosperity.

As part of its first actions, the University subscribes to the Sustainable Campus Clean Production Agreement (APL) together with 13 other higher education institutions. In this way, in 2017 it received the certification of the Sustainability and Climate Change Agency (ASCC) that accredits the successful fulfilment of the goals and objectives adopted, including the measurement of the carbon footprint in two buildings of the Curauma Biotechnology Core (NBC). There is a commitment to extend this measurement to the rest of the premises and campuses in the coming years.

In terms of structural progress, the “**PUCV Sustainability Policy**” was published in 2015, in order to propose moving forward in all areas of university work. In the same year, the university joined the Sustainable Campus Network, a national inter-university body that brings together 26 institutions of higher education and in which the PUCV has been actively involved, promoting the generation of spaces for collaboration and exchange of experiences.

In 2017, the commitment to environmental management was included in the **Institutional Strategic Development Plan 2017 – 2022**. This is the result of the projection and participation of the entire university community to include in its fifth guideline, the call to be a “A Quality and Sustainable University”, integrating a quality imperative both in educational matters and in its campus management.

Finally, as part of the project “**Strengthening Sustainability Management**”, awarded in 2019 by the Ministry of Education, through a Regional Higher Education Agreement, the PUCV aims to make progress on objectives ranging from environmental standards, such as the measurement of the carbon and water footprint, to the implementation and strengthening of educational, research, dissemination and public relations initiatives.



COP25 CLIMATE CHANGE SUMMIT

As part of the **COP25 Climate Change Summit** due to be held in the country in December 2019, the University was selected to host the meeting in the Valparaiso Region, in recognition of its commitment to sustainability and the outstanding contribution made by its academics and researchers. To this end, the PUCV programmed a broad agenda of outreach and awareness-raising activities on climate change that took place before the event. However, as a result of social protests in Chile from October 2019, the international meeting was not held in Chile.

Despite the transfer of the international meeting, it is important to highlight the dedication and commitment of the entire PUCV academic community in the management of various initiatives, including the seminar “Vulnerability and Adaptation to Climate Change in the Valparaiso Metropolitan Area”, the conversation “Climate Ambition: an analysis of the NDC of Chile in the footsteps of its renewal”, the seminar “What should Chile commit to in the global climate change agreement” and the cycle of talks on climate change for PUCV students.

CLIMATE RESILIENCE PROGRAM

As part of the academic contribution to addressing the effects of climate change, the “**Climate Resilience Program for the Metropolitan Area of Valparaiso**” was established, a project developed by the PUCV in partnership with traditional universities in the region, and with the support of the Ministry of Environment (MMA) and the Development Bank of Latin America (CAF).

The program aimed to support the municipal governments of the communes of Valparaiso, Viña del Mar, Concón, Villa Alemana and Quilpué, in the development of resilient and prepared cities to deal with the present and future effects of climate change, and which will be reflected in critical and extreme environmental events, such as storm surges, droughts and fires, which put people’s safety at risk.

Thanks to an in-depth analysis of vulnerability to the effects described, adaptation measures were identified that will be of great relevance to reducing the vulnerability of the population living in the region.

AGREEMENT WITH THE SUSTAINABILITY AND CLIMATE CHANGE AGENCY (ASCC)

The PUCV, member of the Sustainable Campus Network since 2015, participates in the collaboration agreement with the **Agency for Sustainability and Climate Change (ASCC)** to jointly advance sustainability and carbon footprint reduction.

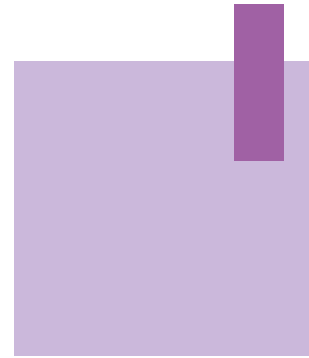
As part of the agreement, the University is committed to advancing and strengthening the progress already made, through various strategies, such as increasing the development of interdisciplinary research projects for the generation of new knowledge, promoting outreach projects such as seminars and congresses to drive a greater understanding of the complexity of this phenomenon and the deepening of training options specialized in the problems and challenges generated by climate change.

CARBON FOOTPRINT

Following the signing of the Clean Production Agreement (APL) in 2012, the University committed itself to the calculation and reduction of the institutional carbon footprint, starting with the measurement of greenhouse gas emissions (scope 1 and 2) of the Curauma Biotechnological Core buildings.

In 2018, the calculation scope 1 and 2 emissions were extended to all PUCV facilities. Continuing in the effort of a more complete calculation, in 2019 the voluntary and partial scope 3 measurement of indirect emissions, such as water consumption and waste management, was incorporated, among others.

A more complete measurement will be carried out in 2020, taking into account the three scopes.



TOTAL GREENHOUSE GAS EMISSIONS

The PUCV's carbon footprint for 2019 was a total of 4,481 tons of CO₂ equivalent, based on Scope 1 and 2 emissions (3,209) as well as Scope 3 emissions (1,272).

The calculation was based on the GHG Protocol on Greenhouse Gas Emissions (GHGs), considering an operational approach that accounted for all processes over which the institution has control or authority to modify its emission patterns.

TOTAL GREENHOUSE GAS EMISSIONS

YEAR	PUCV FACILITIES	TONS OF CO ₂ EQUIVALENT
2017	Facilities: Curauma Biotechnology Nucleus (NBC), NBC 1 and NBC 2 buildings	202,50
2018	All facilities: Valparaíso, Santiago, Viña del Mar, Quilpué and Quillota (Scope 1 & 2)	3.205
2019	All facilities: Valparaíso, Santiago, Viña del Mar, Quilpué y Quillota Scope 1 & 2: 3.209 tons of CO ₂ Scope 3: 1.271 tons of CO ₂	4.481

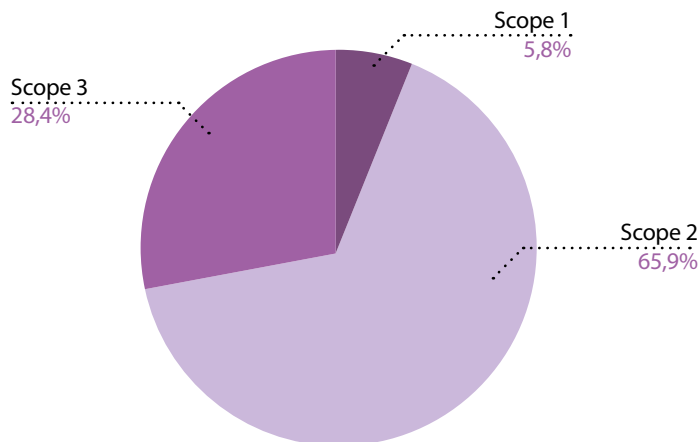
GHG EMISSIONS BY SCOPE

Of the total emissions for the year 2019, 65,9% corresponds to **Scope 2**, coming from the consumption of electrical energy, while the remaining 28,4% corresponds to **Scope 3** which includes measurements derived from water consumption, disposal of solid household waste and recycling of cardboard and glass. Finally, the **Scope 1** measurement represents 5,8%, corresponding to emissions derived from the consumption of fossil fuels, such as gasoline, diesel, natural gas and liquefied gas.

EMISSIONS BY SCOPE

YEAR	TONS OF CO ₂ EQUIVALENT	SCOPE (%)
2017 (only NBC)	202,50	Scope 1 3%
		Scope 2 42%
		Scope 3 55%
2018	3.205	Scope 1 12%
		Scope 2 88%
		Scope 3 No measurement
2019	4.482	Scope 1 5,8%
		Scope 2 65,9%
		Scope 3 28,4%

Source: Curauma Biotechnology Nucleus (NBC), PUCV



ENERGY CONSUMPTION

In 2019, the University recorded an electricity consumption of 6,923,166 KWH, representing a reduction of 1,6% compared to 2018.

The reasons for this decrease are explained by the lower occupation of physical spaces of the University, including classrooms, laboratories, libraries, casinos, cafes, photocopiers and bathrooms, among others, as a result of the student strike of the first half of the year and the social crisis experienced from October 2019.

As a result, for the reported year the energy intensity index was reduced, calculated based on the square meters of total area of the university facilities, from 40,8 kW/m² in 2018 to 39,2 kW/m² in 2019.

Similarly, for the third year in a row, PUCV reduced its fuel consumption by 16% compared to the previous year.



ENERGY CONSUMPTION

	2018	2019
Electricity Consumption (KWH)	7.034.620	6.923.166

ENERGY INTENSITY RATE

	2018	2019
Energy Intensity Rate (KW/M2)	40,8	39,2

FUEL CONSUMPTION (M3)

	2018	2019
Petrol	32,7	30,1
Diesel	4,7	5,1
Compressed Natural Gas - CNG	85.314	63.403
Liquid Natural Gas - LNG	59.971	58.328
Total	145.322	121.767

Source: Department of Finance, General Direction of Economic and Administrative Matters

WATER CONSUMPTION

In 2019 drinking water consumption decreased by 13,307 m³, a decrease of 8,6% compared to the previous year. The reduction, as in the case of electricity consumption, is explained by the student strike of the first semester and the subsequent social crisis of October, both events that resulted in a lower occupation of physical spaces by the university community.

In relation to the groundwater consumption of the Quillota Campus, there was a decrease of 4,248 m³ in relation to 2018.

WATER CONSUMPTION M3

	2018	2019
Drinking water (m ³)	142.041	132.982
Underground water (m ³)	12.745	8.497
Total	154.786	141.479

Since 2013, the Agronomy School located in Quillota has operated a water treatment plant, a Biological Control System that allows 100% of septic waste and wastewater to be degraded, recovered and deposited in the community irrigation channel of Quillota to supply the existing irrigation systems.

In this way, the system attached to the treatment plant, has allowed for an increase in the volumes of recycled and recirculated water annually, depending on the consumption of the university population.

As a result of the lower occupancy of physical spaces for the reasons set out above, the volume of recycled and recirculated water was also reduced by 251 m³ compared to 2018, representing a decrease of 12,9%.

RECIRCULATED AND RECYCLED WATER M3

	2018	2019
Recirculated and Recycled water	1.950	1.699

Source: Department of Finance, General Direction of Economic and Administrative Matters

WASTE MANAGEMENT

In terms of waste management, the University has made significant progress. What began in 2005 as a pilot plan at the Central House for the recovery and recycling of waste such as papers and plastics has, over the years, incorporated new materials and other university campuses, ensuring its effective management and promoting more awareness and better habits in members of the university community.

In 2019, total managed non-hazardous waste increased, while in relation to the hazardous waste generated there was a decrease as a result of lower occupation of teaching and research laboratories in the wake of the October 2019 social crisis.

WASTE BY TYPE AND DISPOSAL METHOD (KG)

	2018	2019
Total Hazardous Waste	30.019	25.685
Total Non-Hazardous Waste	1.412	20.385
Total Waste	31.431	46.070

Source: Department of Finance, General Direction of Economic and Administrative Matters



COMMITMENT TO WASTE MANAGEMENT

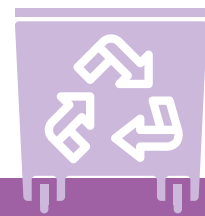
Persevering in its commitment to advance the proper management of its waste, the PUCV strengthened its strategies for waste management in 2019.



HAZARDOUS WASTE

New efforts are added annually to improve the monitoring and control of waste management, in line with the Hazardous Waste Management Plan implemented in 2016, which has the authorization of the Health Authority and complies with current regulations.

In order to enhance greater knowledge and a preventive culture in relation to these wastes and the danger they pose to public health and the environment, informative and regular talks are held in the university community.



NON-HAZARDOUS WASTE

During 2019, the implementation of the current **Non-Hazardous Waste Management Plan** continued, strengthening the available recycling points. To the waste already managed in previous years (cardboard, plastics, glass and aluminium), in 2019 the recycling of PET bottles was added by means of compacting machines and the recycling of cigarette butts, located in the Central House, Faculty of Engineering, Faculty of Engineering Lecture Theatres and the IBC Building.

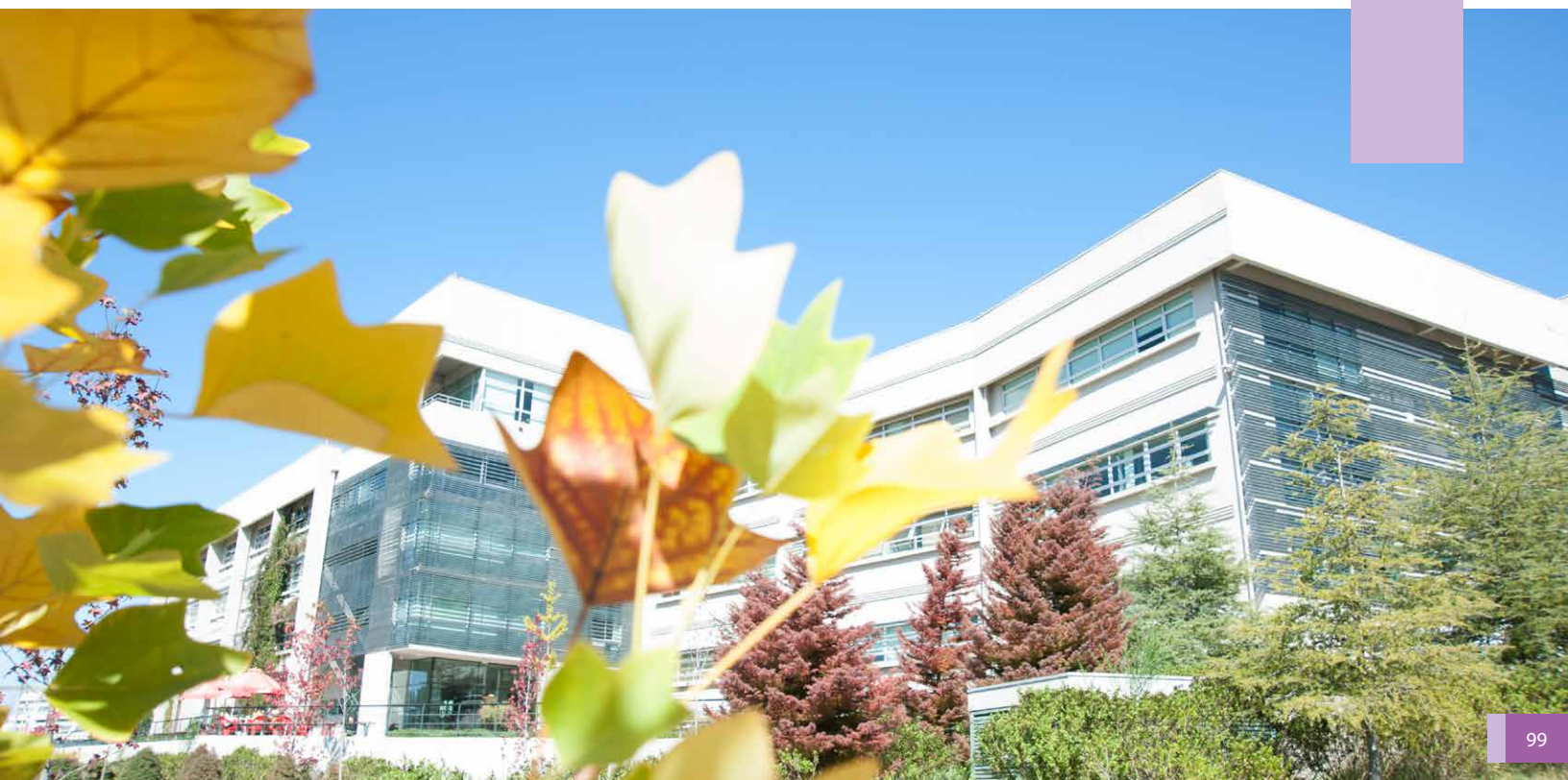
MANAGED HAZARDOUS WASTES

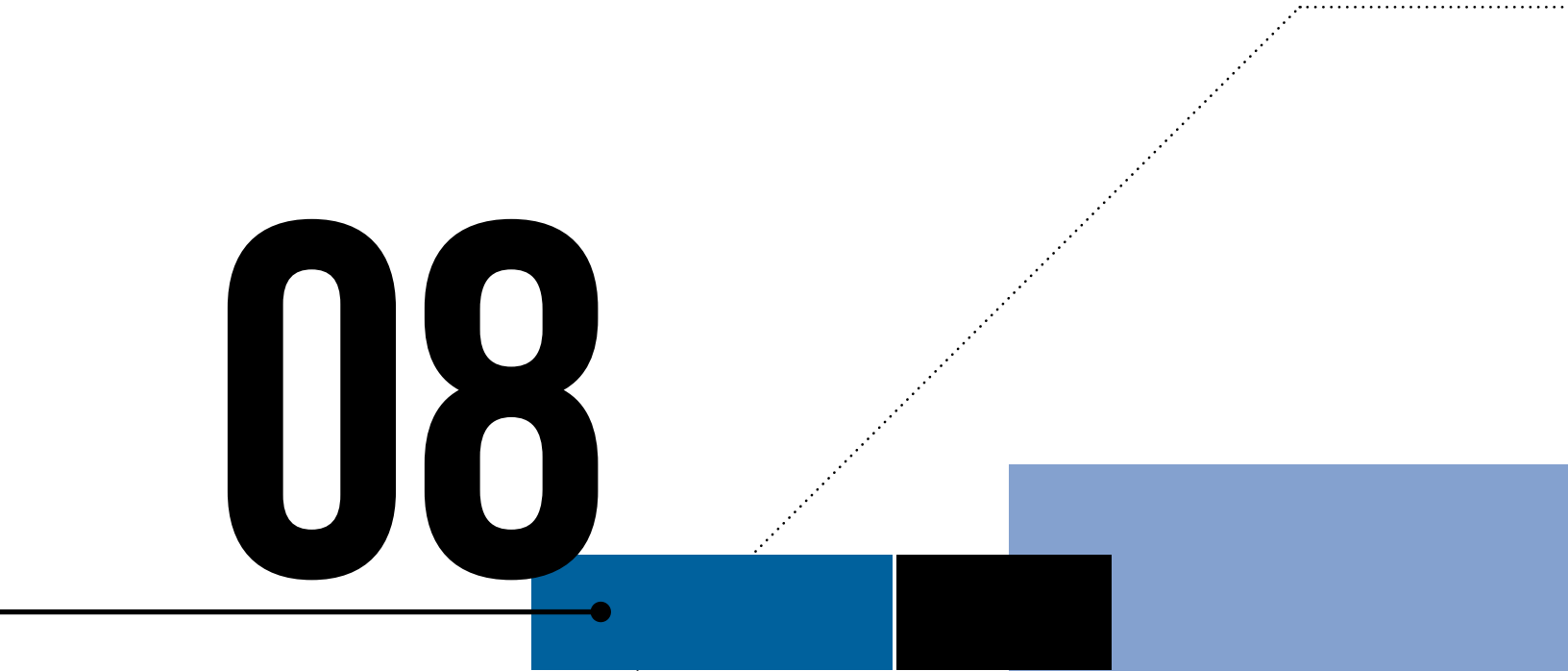
WASTE TYPE	QUANTITY (KILOGRAMS)	
	2018	2019
Acidic solutions	5.125	4.828
Alkaline solutions	1.261	2.370
Complex mixtures	129	0
Organic, non-halogenated solvents	4.395	3.392
Organic, halogenated solvents	63	16
Contaminated containers and glass	1.258	1.063
Solutions with heavy metals	1.502	1.953
Solids with heavy metals	1.796	249
Disused reactives	253	198
Biological	13.820	10.238
Fluorescent tubes	261	197
Batteries	144	0
Pharmaceuticals	12	30
Formalin	0	381
Others: Gases	0	335

MANAGED NON-HAZARDOUS WASTES

WASTE TYPE	QUANTITY (KILOGRAMS)	
	2018	2019
Plastic bottles	0	978
Glass	0	11.200
Cigarette Butts	0	2,88
Home waste	0	3.760
Electronic waste	95	0
Plastic	493	435
Cardboard	824	4.443

Source: Department of Finance, General Direction of Economic and Administrative Matters





08

A UNIVERSITY THAT CONNECTS

Strategic Objective:

- Deepen the university's relevance in society

The University considers public relations as one of its essential functions and an expression of its responsibility and social commitment, cross-cutting to all its functions and institutional areas.

According to the Public Relations Policy, the aim of maintaining a permanent interaction with society is to contribute to the integral, equitable and sustainable development of the people, institutions and territories of the region and the country.

The sense of connection is characterized by a two-way purpose, which seeks to put at the service of society the capacities and knowledge of the Institution and as a result of this relationship, enrich its tasks of education, research, creation and extension.

In this way, the PUCV incorporates in its Strategic Development Plan the guideline **“A University that connects”**, consistent with its public vocation and the close ties that connect it with the society in which it is inserted, progressively strengthening this function and the impact of the activities carried out.

PUBLIC RELATIONS MANAGEMENT SYSTEM

During 2019 the implementation of the Public Relations System began, consisting of a computer platform for planning, registration and evaluation, which brings together the wide variety of actions carried out by the University with its surroundings.

The purpose of this system is to strengthen the management of connections with society and to ensure the quality of the activities carried out.

The development of this system was made possible by the granting of a Regional Higher Education Performance Agreement, signed between the Ministry of Education and the PUCV. It also led to the development of socialization activities of the Public Relations Policy, on which the System is based, in order to achieve conceptual alignment and facilitate the recognition of this function in the institutional work.

In addition, training was carried out during the year for users of the system and support materials were published to guide the development of public relations activities.

As a result of this work, in the first year of implementation of the System, the balance sheet is positive, because all academic units began to record their public relations activities on the platform.

In 2019, two major activities were carried out, which incited great participation from both the external and internal audiences:



SEMINAR

“Towards effective Public Relations”

In October 2019, the first regional seminar on public relations was held at the PUCV, which brought together representatives from different houses of study in the country to share experiences and practices on public relations for sustainable development. On the occasion, the tenth Sustainability Report of the University was presented.



WORKSHOP

“Public Relations and Communications, PUCV Strategic Guidelines”

The instance, aimed at the internal community, was carried out in December and aimed to support from the central level the role of the public relations teams of the different academic units and centres, as well as strengthen the articulated and collaborative work.

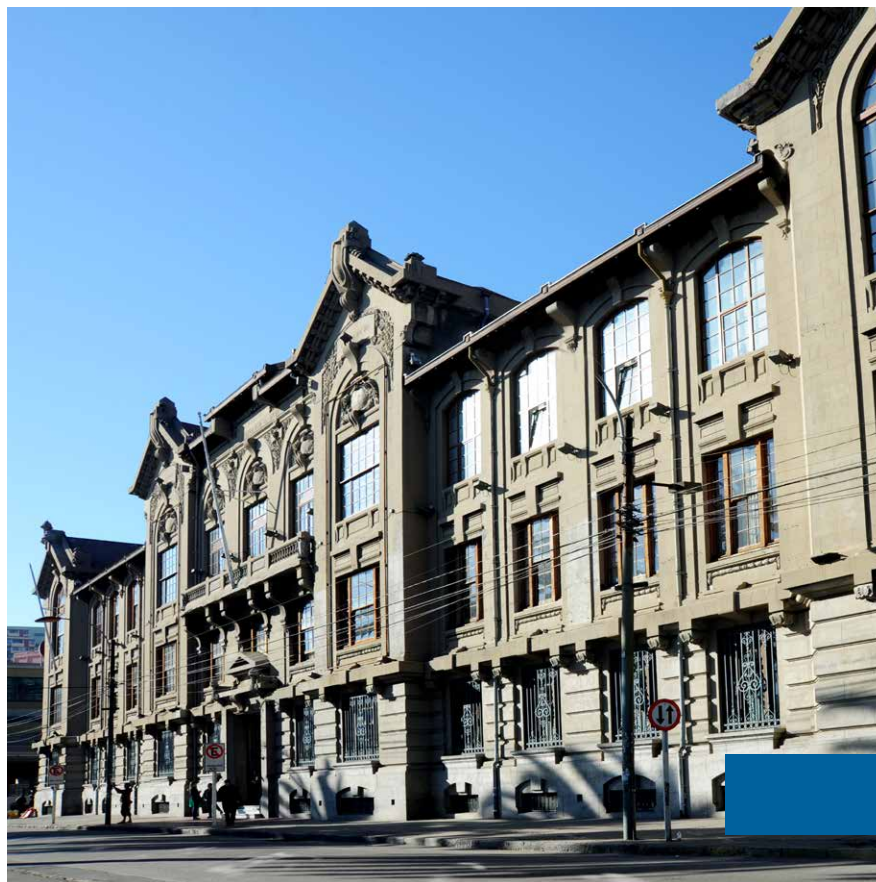
TECHNICAL COOPERATION

The University, through its technical cooperation activities, meets the requirements of continuous training and technical assistance and consulting to state institutions, public and private companies, social organizations and the educational system.

In this way, it transfers its knowledge and promotes relevant academic and professional development, responding to the real and emerging needs of society.

	2018	2019
Resources received through Technical Cooperation (M\$)	9.875.506	7.914.098
Activities with technical assistance	101	119
Academic extension activities	418	379
Students in academic extension activities	9.057	10.516

Source: Department of Institutional Analysis and Strategic Development, Vice rectorate of Development, PUCV



CONNECTING WITH ALUMNI

The PUCV understands engaging with its students as a connection that extends to their lives as graduates and professionals. In this way, it seeks to contribute to the personal and professional growth of alumni, as well as to building a support network when evaluating and improving programs and curriculum, to facilitate labour insertion and the development of professional practices of future alumni, among other actions of high importance to the Institution.

LABOUR INSERTION

The Alumni Network continued in 2019 to conduct job insertion workshops for students of recent years and recent graduates, preparing to enter the world of work through the simulation of interviews, effective job search and psycho-labour preparation.

In the same area, the Virtual Job Fair, held for the sixth consecutive year, was attended by 120 companies that contributed exclusive offers for PUCV graduates. For the first time, the activity "Correct your CV" was carried out, which was widely valued, bringing together about 200 graduates who were assisted in the preparation, updating and improvement of their work cover letter.



ALUMNI DINNER

Liquique and Punta Arenas were the cities chosen to host regional alumni from in a new version of their Alumni Dinner, bringing together 110 graduates from the extremities of the country, who could relive their university years and stay on top of the advances and novelties of the University.



ENTREPRENEURSHIP SUPPORT

With the aim of promoting entrepreneurship, in 2019 the Alumni Network became part of the Innovation and Entrepreneurship Competitions, opening a new line of funding for alumni, which allowed three projects created by PUCV professionals to obtain support to continue their implementation.

CULTURAL EXTENSION

In the PUCV, artistic and cultural extension is sustained through the work of schools and institutes, as well as from the unit that at the central level promotes its development.

In 2019 the Cultural Extension Unit focused on the development of activities that would enhance a greater approach, participation and assessment of artistic and cultural phenomena, with special emphasis on audiences of the school system.

This is how the areas of heritage, music and visual and performing arts added in 2019 a total of 202 activities, benefiting 16,401 people, 4,116 of them correspond to teachers and students from educational establishments in the Valparaíso region.

With regard to the **territorial scope of the activities**, work has been privileged in communes of Greater Valparaíso, followed by acts of mediation of pedagogical material in Iquique, concerts and recitals in Santiago, Rancagua and Mendoza, Argentina.

The sustained work with **various entities and cultural agents** allowed the University to execute agreements and award projects financed by the Ministry of Arts, Cultures and Heritage, such as the ChileCelebra program, which was intended to commemorate the centenary of Margot Loyola's birthplace; and the Professional Orchestra Support Program, which supports the work of the PUCV Chamber Orchestra.

A milestone for the cultural development of the University was to have its own space for the realization of chamber music concerts, thanks to the **acoustic enablement of the Major Lecture Hall of the Isabel Brown Caces building**, space widely used by the PUCV ensembles and various artistic groups of the Region.

With great participation and valuation, **Heritage Week** offered a set of activities that highlighted the cultural values and assets of the city of Valparaíso, driven by the collaborative work of managers, visual artists, stable casts and staff of the area.

As a result of collaboration with academics and students, in 2019, meetings were held in the field of **film dissemination and appreciation**, including the cycle "Cine a Ciegas" and the "Cine Club Revisitando Clásicos", exhibitions held monthly at the Cineteca PUCV and which are enriched with talks and conversations that were supported by the international independent cinema group Cinechilex and the Network of Film Festivals of Chile.

At the end of the second semester, the **agenda of activities in the educational field was subject to change** in the wake of the social crisis, which is why face-to-face cultural activities were decided, both in university campuses and in external facilities and public spaces.

The Centre for Advanced Studies and Extension, CEA PUCV, located in Santiago, developed a rich cultural program, which included seminars, film cycles, concerts, book presentations, among other activities, all open to the public. In 2019, **34 activities** were carried out, with the participation of **3,385 people**.



SOCIAL INCUBATOR

Highlighted among the first of its kind in Latin America, the Gen-E Social Incubator continues to provide technical and financial support to vulnerable entrepreneurs, people with disabilities and older adults through its various programs.

In 2019, the Gen-E Social Incubator added a total of 140 activities with direct impact on 761 participants, thus strengthening the University's support for innovative ventures of high value and socio-environmental impact for the development of replicable business models with long-term projection.

GEN- E SOCIAL INCUBATOR INDICATORS 2019

PROGRAM	ACTIVITIES	PARTICIPANTS
Entrepreneurship Cycle	11	50
Gen-E Academia	17	14
Micro-entrepreneurship Encounters	16	167
AGCID	2	100
Atacama Conciencia Lab (Conscious Lab)	2	8
Gen-E Partners "Circular White House"	11	6
Chilean Entrepreneur Cycle	52	190
Social Elevation	29	226
Total	140	761

INCUBATED PROJECTS WITH A SUSTAINABILITY SEAL



+ACCESIBLE

The project proposes a methodology of design and development of spaces that guarantees the universal cognitive accessibility of environments, services and products through a certification, with emphasis on those users with the greatest need, contributing to the generation of inclusive companies.



GLASSCRETE CHILE

Through the collection of glass found in landfills, the project promotes the manufacture of products that incorporate this waste, increasing its shelf life and covering not only a current market need, but also providing solutions to a socio-environmental problem.



VIVE TOUR

Through an online platform the project brings tourism closer to the global deaf community, through the implementation of accessibility protocols and attention to existing tourist services in the main tourist areas of Chile.

SCHOLASTIC ENTREPRENEURSHIP

Thanks to its ALCUBO PUCV School Incubator, the University develops a series of initiatives and programs that promote the early development of entrepreneurship and creativity in students from various educational establishments, including primary school, high school, technical-professional, special and adult schools in the Valparaiso Region.

In this way, a necessary cultural change is proposed, which promotes entrepreneurship as an option for personal and collective growth, from the early stages of development, identifying problems of the environment that need to be solved through innovation and impact analysis, thus contributing to sustainable and responsible development.

ALCUBO SCHOLASTIC INCUBATOR INDICATORS 2019

PROGRAM	ACTIVITIES	PARTICIPANTS
Scholastic Entrepreneurship Clubs	104	305
Taking Off from the Classroom	23	129
Compass	32	413
Innovation Camp	49	149
Active Minds	51	147
Total	259	1143



SOCIAL CONNECTION

The University has advanced in the development of a community social action program, in partnership with two Valparaiso organizations, the La Matriz Corporation and the Minga Valpo Foundation, providing opportunities and tools for social transformation in vulnerable sectors of the port city.

With the La Matriz Corporation, which seeks to promote the urban, social, environmental and economic recovery of the port neighbourhood, the University maintains a long-standing relationship. Academics and students have been actively involved in the development of programs that have contributed to improving the quality of life of the community.

Highlights include the formation of the Infant-Youth Orchestra La Matriz, with the support of the Institute of Music; and the Photoloric Ensemble, made up of members of the Barrio Puerto, sponsored by the Folkloric Ensemble of the University, who enrich community life. In addition, other permanent initiatives, such as the Legal Office, maintained by the Faculty of Law; and the Ophthalmological Office, of the Medical Technology Career, provide free care to the neighbours of the sector, also being a space of practice and formative enrichment for students.

The PUCV maintains a relationship with the Minga Valpo Foundation since its origin, given that it emerged from the experience that a group of architecture students had when they participated in the reconstruction of homes on Cerro Merced, after the fire of 2014.

The students, who as a result of their participation in a national competition had built a sustainable house, installed it on the hill, establishing the Ludoteca Minga, a space where the children of the neighbourhood gather, play and learn safely, helping to regenerate the social fabric of a vulnerable neighbourhood.

This alliance was formalized in 2019 with the signing of an agreement between the University and the Foundation, with the aim of enhancing this initiative, through connections with the PUCV's academic units, which through their competencies can contribute to the objectives of the Ludoteca and at the same time enrich their work by being in contact with the real needs of the community.

Thus, teachers and students from schools of Pedagogy, Commercial Engineering, Social Work and exchange students participate in the workshops and educational dynamics of Ludoteca, where it seeks to stimulate children through play and learning by doing.

Starting with the UCV 1995 project "Strengthening Sustainability Management", awarded by PUCV in 2019 it is expected to strengthen work with the La Matriz Corporation and the Ludoteca Minga, in order to consolidate a community social program of high impact for the territory.



SUPPORTING HEALTH AND WELFARE

The PUCV includes a number of initiatives and programs promoted by its schools and degrees, focused on supporting the local community in the field of health and contributing to the advancement of the Sustainable Development Goals (SDG), particularly the SDG3 “Health and Welfare”.

Thus, a virtuous linkage between the University and its environment is promoted, identifying aspects that represent a mutual benefit, both for the social, academic and research enrichment of its students, and for the communities served, which see these centres and care programs as opportunities for the improvement of their health and well-being.

- **Psychological Clinic** (School of Psychology)
- **Physiotherapy Centre** (School of Kinesiology)
- **Infant, Youth and Adult Neuro-kinesiology Program** (School of Kinesiology)
- **Diocesan Care Centre** (School of Social Work)
- **Diocesan Polyclinic of the Bishopric of Valparaíso** (School of Kinesiology)
- **Legal Office at La Matriz** (School of Law)
- **Placilla Popular Optics** (Medical Technology Degree)



POPULAR OPTICS PLACILLA

Thanks to a collaboration agreement signed between the PUCV and the Municipality of Valparaíso, as of September 2019 the work of the **Popular Optics of Placilla** was initiated. It is a place that will allow students and academics of the medical technology degree to provide low-cost ophthalmological health benefits to the community of Placilla.

The agreement represents a virtuous example of how the University, through its capabilities, establishes a two-way relationship with its surrounding environment, where both the community and students benefit. The latter because they have the opportunity not only to capture the social commitment that constitutes the hallmark of their study house, but also to know the stories of real patients, to understand the daily difficulties they face as a result of their visual limitations and to understand the different existing health referral systems.

CENTRO VINCULAR FOR CORPORATE SUSTAINABILITY

Founded in 2001, the Centre is the first Chilean university centre specialized in the development of methodologies for the implementation of sustainability in the management of organizations.

The Centre's fields of action, which is part of the PUCV School of Business and Economics, cover expert consulting, applied research, training programs and public policy development services. It has excelled in recent years for promoting the business and human rights agenda in the country and Latin America, in addition to imparting the Diploma in Strategic Sustainability Management for 15 years, positioning itself as the most outstanding and prestigious in the country.



PUBLIC RELATIONS FUND

In order to strengthen the links of the university community with its environment, six years ago the University provided the Competitive Fund to Support Public Relations Activities.

The objective of this competition, of the General Direction of Public Relations, is to support the development of activities arising from the University's own work and to account for a two-way interaction between the Institution and its stakeholders, that is, that respond to the demands of society and, at the same time, contribute to the enrichment and feedback of the quality and relevance of teaching and research.

Through a contribution of around 40 million pesos, during 2019 this fund benefited a total of 30 academic units and centres of the PUCV, which undertook 40 initiatives focused on social action and value seal, academic linkage, cultural artistic linkage and professional linkage, among which the following stand out:

FUTVALORES

The project "Football and Values: bringing social teaching closer to the community" aims to promote through sport the fundamental values of sociability such as respect, understanding, diversity, agreement and teamwork of children and young people in the sector of Barrio Puerto in Valparaíso.

Using football and training, sports sites stigmatized by alcoholism and drug addiction are inhabited, thus strengthening the territorial transformation and relationship of children with their families and community. To support this project of the La Matriz Corporation, the Faculty of Theology received support from the Public Relations Fund.

SOLIDARITY PREUNIVERSITY IN LANGUAGE AND COMMUNICATION

For the third consecutive year, the solidarity preuniversity "Letters that open paths" was carried out. It is an initiative organized by the degree of Pedagogy in Spanish and Communication of the Institute of Literature and Language Sciences (ILCL), and it aims to prepare students to take the University Selection Test (PSU), raising their scores and motivating students to continue their studies. In 2019, the project was first moved to the Bicentenario de Viña del Mar School, benefiting 50 students from 11th and 12th grades.

XI REGIONAL DAY OF CLASS STUDY 2019

The PUCV Institute of Mathematics organized the XI Regional Day of Class Study. This is an activity aimed at primary and middle school teachers, academics, researchers, managers and students. The day aimed to promote the formation of Class Study Communities, as a strategy for the generation of spaces of professionalization and exchange of good teaching practices. In this way, the day was attended by students and teachers from the Ramón Barros Luco School, the Bicentennial School of Valparaíso, the German School of Valparaíso and the Nuestra Señora del Huerto School of Quillota.



INTERNATIONAL ACADEMIC COOPERATION

The PUCV has continued its work towards the consolidation of International Academic Cooperation, increasing the intensity and depth of links with higher education institutions, embassies and diplomatic representations, to make a broader projection of the University's international work and, in passing, contribute to maintaining and strengthening internationally the name and reputation of the University. This work is carried out by the Department of International Relations (DRI) and developed with the participation and commitment of the University's academic units.

The PUCV maintains its leadership and spearheads the efforts of the sectoral brand for higher education services, Learn Chile, to offer an important platform for disseminating the undergraduate and postgraduate offer abroad.

In this way, in 2019 the University established 66 new international academic cooperation agreements, allowing to add new destinations for student and academic exchange, cooperation activities in research and creation, doctoral co-titles and project implementation through applied research.

These agreements include the one signed with Auckland University of Technology in New Zealand, which includes the FutureSPacific project, an interdisciplinary Research and Collaboration Program for future global environments, commitments and impacts.

During 2019 the presence of PUCV reached eight international events, in eight countries, from four continents. These actions, taken as permanent and strategic for the DRI, are fundamental to the international positioning of the University and its work. Another highlight during the year was visits by nearly 40 delegations from foreign universities and other visits by DRI staff to international universities, so that these higher education institutions around the world become familiar with the PUCV and jointly project forms of collaboration in areas of mutual interest.

OPEN PUCV

After six versions, and three years since its emergence in 2017, the PUCV continues to expand its offer of free, massive and open courses (MOOCs), thanks to the "OPEN PUCV" program. In this way it adds to the global trend that allows stakeholders from all corners of the world to access free learning in diverse areas ranging from natural and social sciences to knowledge related to technology and innovation, thus contributing to the achievement of the Sustainable Development Goals, specifically SDG4: "Quality Education" and targets associated with free and accessible knowledge.



The program not only resulted in the expansion of knowledge of people from all over the world, 90% of them from abroad, but also projected the work of the University's academics and researchers beyond national borders.

In this way, in 2019 three new courses were incorporated alongside the existing 10, adding 21,511 enrolments and a total of 4,552 certified participants, resulting in an increase of 60% of people who managed to certify the knowledge acquired in relation to the previous period.

OPEN PUCV COURSES 2019

	2019
N° Large-scale and Free Courses (MOOC)	13
N° of people registered	21.511
N° of people certified	4.552

Source: Department of Virtual Classroom, Vice rectorate of Academics.

- **Scientific Literacy: Science for All** (Faculty of Science / Institute of Chemistry)
- **Environmental bioethics: from an unsustainable human way of life to a sustainable one** (Ecclesiastical Faculty of Theology / Institute of Religious Sciences)
- **How to design a plan for local political communication?** (Faculty of Economic and Administrative Sciences / School of Journalism)
- **How to see a work of art?** (Faculty of Architecture and Urbanism / Institute of Art)
- **Science and Science Fiction** (Faculty of Science / Institute of Physics)
- **The Professor of the 21st Century** (Faculty of Philosophy and Education / School of Pedagogy)
- **Formulation of scientific school projects** (Faculty of Sciences / Institute of Chemistry)
- **Tourism Management: The value of information** (Institute of Geography / Research Centre in Tourism and Heritage)
- **Initiating a High Impact Entrepreneurship** (Faculty of Engineering / Engineering 2030)
- **Negotiation and Conflict Resolution** (Faculty of Economic and Administrative Sciences / School of Business and Economics)
- **Being a Citizen Today** (Faculty of Philosophy and Education / Institute of History)
- **Using the smartphone in learning** (Centro Costa Digital PUCV)
- **Christian Vision of the Human Person** (Ecclesiastical Faculty of Theology / Institute of Religious Sciences)

INSTITUTIONAL POSITIONING

During 2019, PUCV excelled nationally and internationally in various rankings that measure the quality of undergraduate, postgraduate, research impact, internationalization, reputation in employers and other aspects.

EL MERCURIO UNIVERSITAS RANKING

According to the ranking developed by the UNIVERSITAS and El Mercurio group, the University ranked 7th within the institutions that were measured in the field of “undergraduate teaching”. On the other hand, PUCV maintained the 5th place within the group of institutions in the category of “Research and Doctorate”, as in 2018.

As for its “Formative Processes” it remained in the 3rd place, while in “Institutional Management” and “Research”, it was placed in the 5th and 7th place, respectively.

AMÉRICA ECONOMÍA RANKING

In relation to the ranking of America Economics, the University ranked 4th nationally, ranking with a quality index of 76,18. In the field of “Internationalization”, the PUCV rose one position from 2018, from 4th to 3rd place. In the study breakdown, the following undergraduate degrees stood out:

AMÉRICA ECONOMÍA RANKING 2019

UNDERGRADUATE DEGREE | RANKING POSITION

Basic Education	2°
Law	3°
Agronomy	5°
Architecture	5°
Journalism	5°
Electrical Engineering	6°
Civil Industrial Engineering	7°
Commercial Engineering	10°

QUACQUARELLI SYMONDS (QS) RANKING

The study by British consultancy Quacquarelli Symonds (QS), one of the most prestigious in the world, measures the top 400 universities in Latin America. In 2019, the University ranked 21st in this ranking, ranking among the top 25 universities in Latin America, excelling in the areas of “academic reputation” and “reputation of employers”, both with the highest weights. It also improved in the category of “academic publications”, ranking 5th nationally.

TIMES HIGHER EDUCATION LATIN AMERICA

In the Times Higher Education Latin America 2019 ranking, in which 150 institutions from 12 countries participated, the PUCV ranked 23rd in the region, registering a significant increase from 2018, when it ranked 27th. It also recorded an improvement in its position at the national level, rising from 6th place in 2018, to 3rd within the Chilean universities evaluated in 2019, also highlighting within the top three positions at the national level in the areas of “teaching” and “industry income”. In the field of “research” it ranked 4th, climbing a place from 2018. Moreover, in the category of “publication citations”, it remained ranked 18th, while in “international perspective”, it ranked 14th.

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	102-25	Conflicts of interest	17
	102-26	Role of highest governance body in setting purposes, values and strategy	14
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	102-33	Communicating critical concerns	14
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* Los contenidos fueron validados por los vicerrectores y directores de cada una de las áreas responsables de la entrega de información.

** No se realizaron cambios en la elaboración del reporte. / *** El reporte no fue sometido a verificación externa.