



Instituto Tecnológico
y de Estudios Superiores
de Monterrey



Enseñanza
e Investigación
Superior, A. C.

Fundación 
Santos y De la Garza Evia

Evolution that Transcends

Annual Report



2022

Space for reflection, Monterrey campus

Introduction

TRANSCENDENCE



Letter from the President of Tecnológico de Monterrey



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Letter from the President of Tecnológico de Monterrey

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It is a pleasure for me to share the annual report of the endeavors that Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM), Enseñanza e Investigación en Ingeniería (EII), and Fundación Santos y de la Garza Evia (FSGE) undertook during the year 2022.

This year was marked by **our complete return to in-person activities**. It was most rewarding to welcome back our students to Tec and Tecmilenio's facilities, who returned and filled our campuses with life and dynamism. **We resumed the face-to-face experience of all activities**.

We are in the second year of our Strategic Plan 2025. We keep moving forward with our strategy of focusing on talent and the 3 "i's". On the matter of talent, our current faculty was developed and strengthened, and for the Faculty of Excellence initiative, we hired 17 new leading professors in their respective fields.

As to the 3 "i's", we consolidated the **investigation** with the launch of the Institute for Obesity Research and the Institute of Advanced Materials for Sustainable Manufacturing. Regarding **innovation**, we evolved onto phase two of distritotec with the start of construction of Expedition; our Tec21 Model grew stronger; we ventured into new educational technologies, such as the first class to be completely taught in the metaverse; and we evolved our continuous education offer. And for **internationalization**, we reinstated student mobility and we are taking steps to become a more international Tec, with more foreign students and professors. In addition to being

invited to be part of the Council of international organizations like SACSCOC, APRU, and U21, we also had more presence in international forums and visits of distinguished leaders on all of our campuses.

At **Tecmilenio and TecSalud**, we also continue to move forward. We celebrated two decades of Tecmilenio, with more than **61 thousand students** receiving formal education and we reinforced continuous education. In TecSalud, after **two years of intense performance brought about by the pandemic**, we formalized agreements with Houston Methodist Hospital and FunSalud. We also launched TecSalud Network with two new hospitals that joined and opened our first Primary Care Center in San Pedro Garza García, Nuevo León.

In the context of our **80th anniversary**, I would like to take this opportunity to recognize the impact that our current President of the Board of Trustees of Tecnológico de Monterrey, José Antonio Fernández Carbajal, has had in over a decade. In these 10 years, academic excellence has undoubtedly been strengthened and is a point of reference on an international scale. Our institution has gone through an unprecedented transformation, which gave birth to initiatives like Tec21 Educational Model, the Líderes del Mañana scholarship program, distritotec, and the research agreement with MIT, among many other projects in which we have had much support and encouragement from his part. José Antonio's leadership is a legacy that transcends and plants seeds that will continue to bear fruit throughout the history of Tecnológico de Monterrey.



We know that the challenges of the future will be more complex, but we are sure that they will be accompanied by opportunities. At Tecnológico de Monterrey, our academic excellence, innovation in education, entrepreneurship, global vision, and partnerships with the business sector sets us apart, which is why I have no reservations that we will successfully overcome the new challenges and that we will continue having an impact in more and more people for the benefit of society.

David Garza Salazar
President of Tecnológico de Monterrey

Tec in Numbers

For Tecnológico de Monterrey the year 2022 was a period of adaptation and evolution in the aftermath of the pandemic.



Tecnológico de Monterrey is a private non-profit multi-campus university system. It is formed by three institutions: Tecnológico de Monterrey, Tecmilenio and TecSalud. It was established in 1943 by a group of Mexican entrepreneurs led by Eugenio Garza Sada.

Tec de Monterrey

Tec de Monterrey is a private non-profit multi-campus university system that stands out for its **academic excellence, innovation in education, entrepreneurship, and internationalization** as well as for its **partnerships with industry** and employers, in addition to its great capacity for execution, which has made the institution a leader in research among the country's private universities.

Is present in **32 municipalities in 20 states of Mexico**; has an enrollment of more than 96,000 high school, undergraduate and graduate students; and over **11,000 professors**. The institution has been accredited by the **Commission on Colleges of the Southern Association of Colleges and Schools (SACSCOC)** since 1950 and is **part of several prestigious international networks** such as the Association of Pacific Rim Universities (APRU), Universitas 21 (U21), and The Worldwide Universities Network (WUN), among others.

Tecmilenio

Established in 2002, Tecmilenio is present in **27 cities** around Mexico and has over **61,000 students** enrolled in various academic degrees, plus a Competence Center that offers continuous education to over 35,000 entrepreneurs. It operates with a **Positive University model**, in which students discover their purpose in life and develop the skills to reach it. The formative model is closely related to different industries, with the aim of acquiring skills for work and have high employability. To date, it has more than **150,000 graduates**.

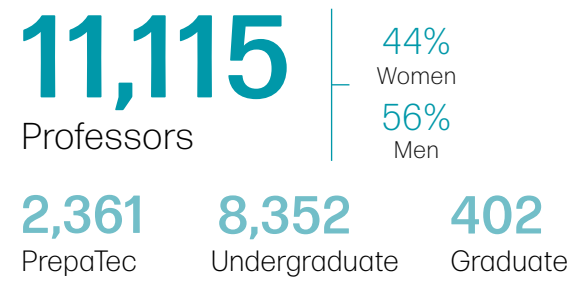
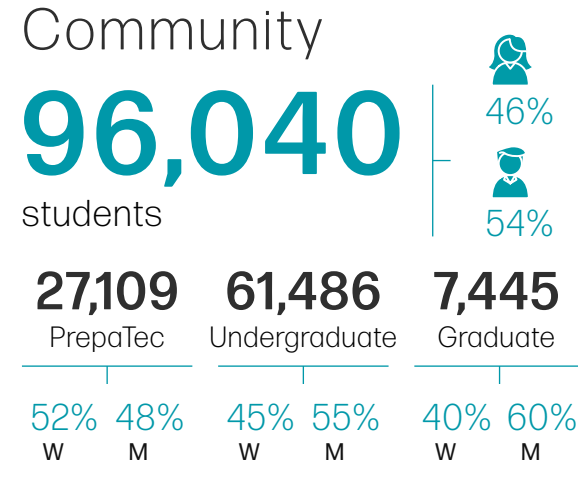
TecSalud

TecSalud is our Health System that integrates **innovative clinical, education, and research services**. It is comprised of: two Academic Medical Centers - **Hospital San José and Hospital Zambrano Hellion**-, the Speciality Institutes and the Fundación TecSalud. At TecSalud's Academic Medical Centers are where the students of the Tec de Monterrey School of Medicine and Health Sciences carry out their clinical and training activities.

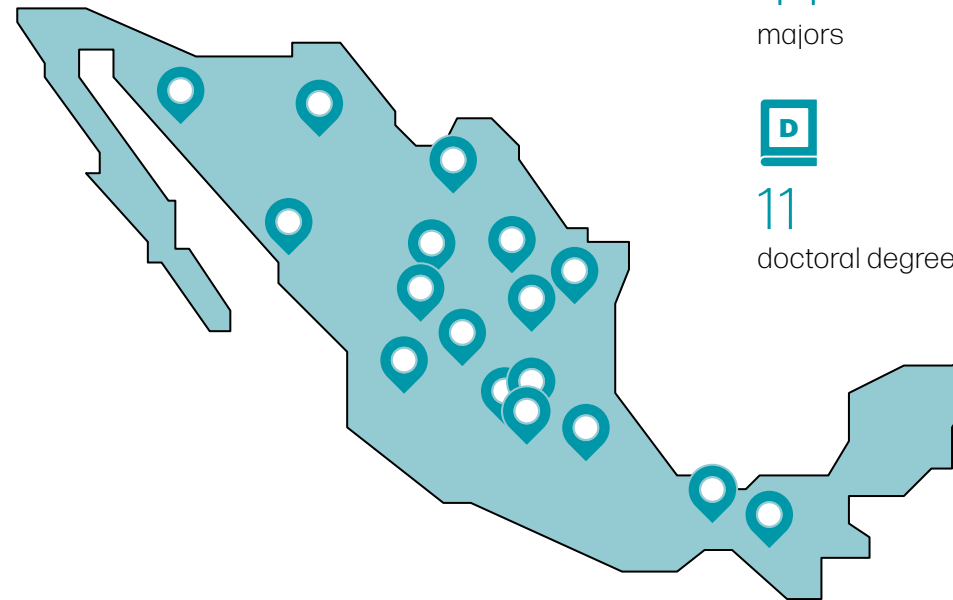


Tec in Numbers

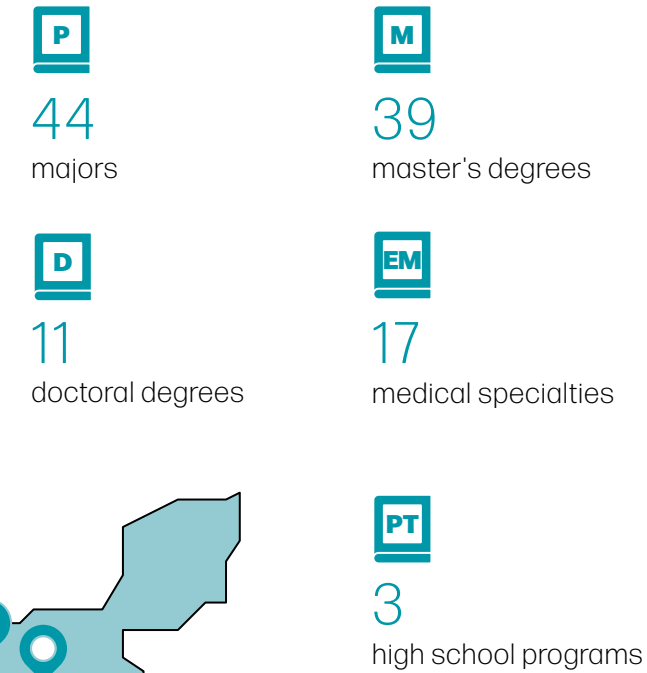
Tec de Monterrey



Presence in
32 municipalities
en 20 states

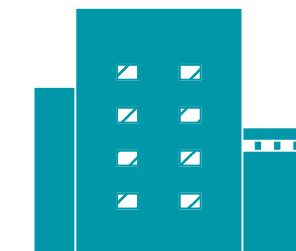


Academic Programs



National Undergraduate and Graduate Schools

- Architecture, Art and Design
- Humanities and Education
- Medicine and Health Sciences
- Social Sciences and Government
- Engineering and Sciences
- Business



*annual average

Attracting the Most Talented Students

New Undergraduate Students

A new generation enrolled during the August-December 2022 semester

12,048 undergraduate students

91.4
grade point average of newly enrolled students

From:

443 towns and cities and from Mexico's 32 states

31 countries

11% are the first generation in their family to go to university

50% with financial aid

Distribution of enrollment according to school:

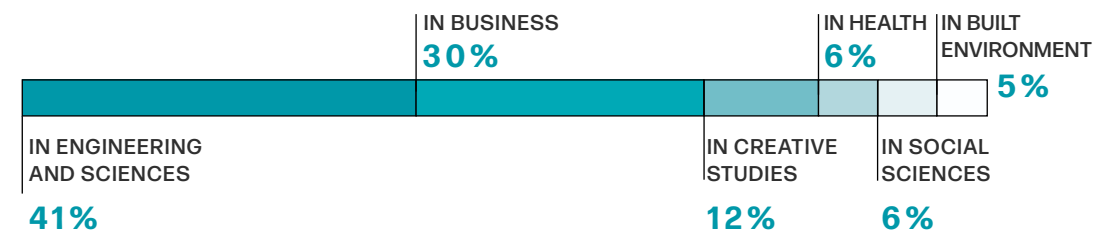
85%
in sporting activities

79%
in cultural activities

84%
in volunteering

63%
in work activities

La distribución del ingreso de la comunidad por entrada es de:



New PrepaTec Students

In the August-December 2022 semester we welcomed:

9,870 new students to PrepaTec

90.8
grade point average of newly enrolled students

From:

400 towns and cities from Mexico's 32 states

26 countries

45% with some kind of financial aid

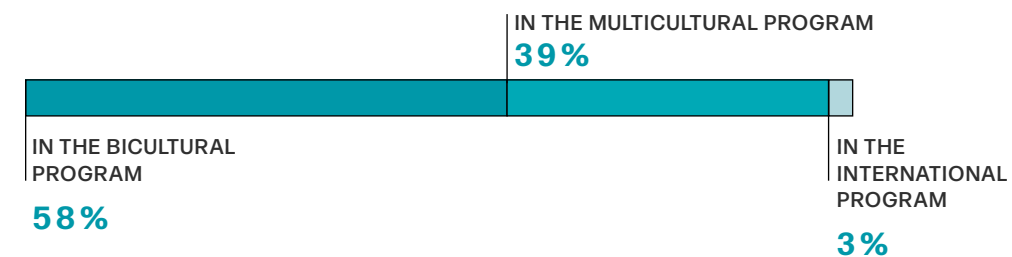
Regarding education, the students have experience in different areas:

90%
in sporting activities

83%
in cultural activities

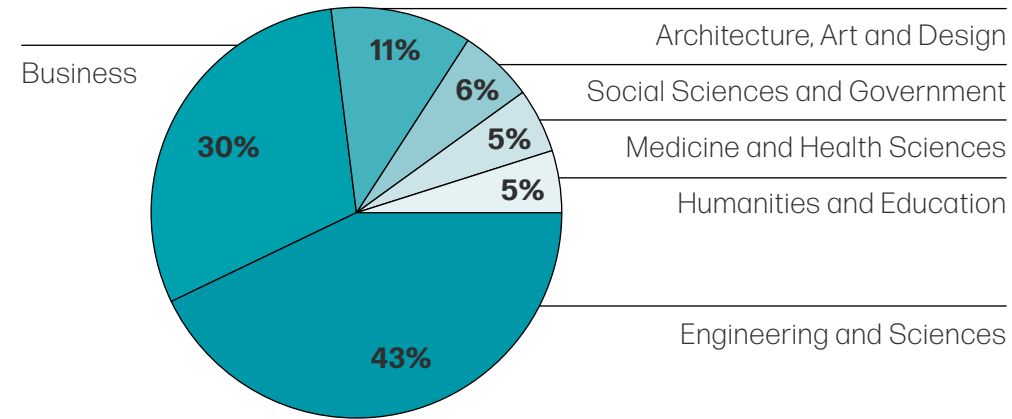
75%
in volunteering

Distribution of enrollment according to program:



Our Student Community

Undergraduate



61,486

50%

With financial aid

4%

International students

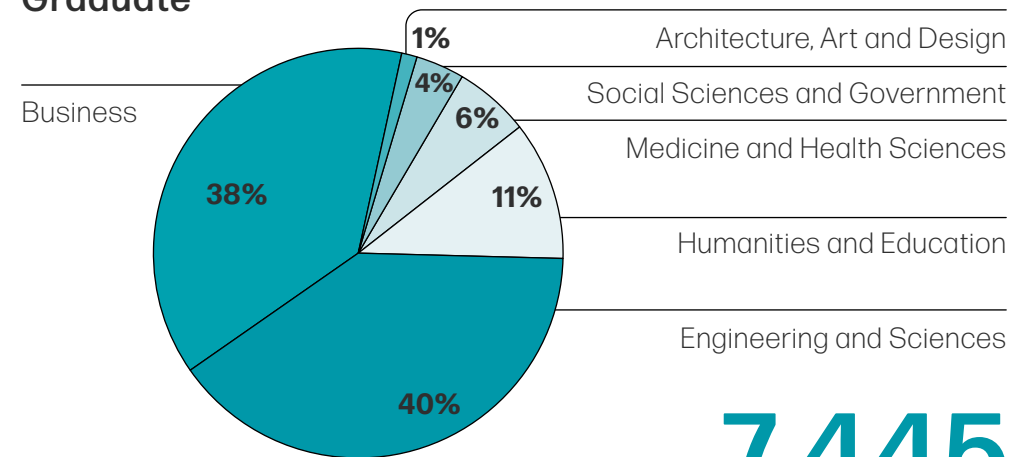
31%

Students from another state

11%

First generation to go to university in their family

Graduate



7,445

93%

With financial aid

16%

International students

31%

Out-of-state students

Selectivity and Scholarship

58% undergraduate students with a high school average greater than or equal to 90.

996	200
students in the Líderes del Mañana program	Members enrolled in august 2022 to Líderes del Mañana
9th Generation of Líderes del Mañana	

Internationalization

34% of alumni had an international experience during their studies

3,771 of high school students had an international in-person experience

7,517 of undergraduate students had an international in-person experience

172 online international faculty

2,392 international degree seeking students in the undergraduate program

Inspiring Faculty

8,754 faculty members taught undergraduate and graduate classes

67% of faculty members had a 9 or 10 in their Student Assessment²

² Encompasses full time faculty members teaching Tec21 from 2021 to 2022

43,056 undergraduate and graduate group classes

23% FULL TIME FACULTY MEMBERS

59% OF FULL TIME FACULTY MEMBERS HAVE A DOCTORAL DEGREE

40% OF FULL TIME FACULTY MEMBERS ARE ALUMNI OF FOREIGN UNIVERSITIES

17% OF FACULTY MEMBERS GRADUATED FROM A TOP 200 FOREIGN UNIVERSITY³

11% OF FACULTY MEMBERS ARE FROM ANOTHER COUNTRY

³ The rankings of the QS, THE and ARWU of foreign universities are being considered

Continuous Education

149,019

participants in the Continuous Education programs in Mexico and Latin America

1,500

Education partners, allies in the academic education of our Tec21 students

Philanthropy

694 million pesos were raised

Record year in fund raising

154

philanthropic projects were benefited

Rankings



QS World University Ranking 2023

#170 global level **#30** private universities **#1** in Mexico



Latin America Ranking 2022

Impact Ranking 2022

#5 in Latin America

Globally measures the positive impact that universities are making in the world to contribute to the Sustainable Development Goals

#1 in Mexico

#3 in Latin America

#2 in Mexico



Princeton Review and Entrepreneur Magazine's Entrepreneurship Universities Ranking

#4 out of 50 participating universities

EXATEC

341,539

alumni part of the EXATEC community

35

active EXATEC associations in Mexico

19

active EXATEC associations abroad

Results of follow-up studies of alumni

86% EMPLOYMENT RATE 3 MONTHS AFTER GRADUATION

95% EMPLOYMENT RATE 5 TO 35 YEARS AFTER GRADUATION

10 years after graduation

8 out of 10 EXATEC

has a graduate degree, international experience or an executive position

Research

Talent dedicated to research

650 faculty members who are members of Mexico's National System of Researchers (SNI, in Spanish)

8,067

publications in Scopus* over a five year period

107 externally funded research and development projects

4 tech-based companies created at Tec with business partnerships: spinoffs, co-developments/equity

48%

of publications with international collaboration

Launch of 2 new Interdisciplinary Research Institutes

262

faculty members participated in the Research Professor Model

*International Index of Scientific Journals

TecSalud

122,193

patients treated in the Academic Medical Centers

13,328

hospitalized patients

26,877

people benefited by Fundación TecSalud

108,865

patients treated with out-patient services

199,136

consultations offered at the Health Institutes

Tecmilenio

61,522

students enrolled in the high school, undergraduate and graduate programs

90% students employed by graduation day

11,297

online students

86%

students with financial aid or scholarship

Chapter 1.0

Strategy

for Evolution



TRANSCENDENCE

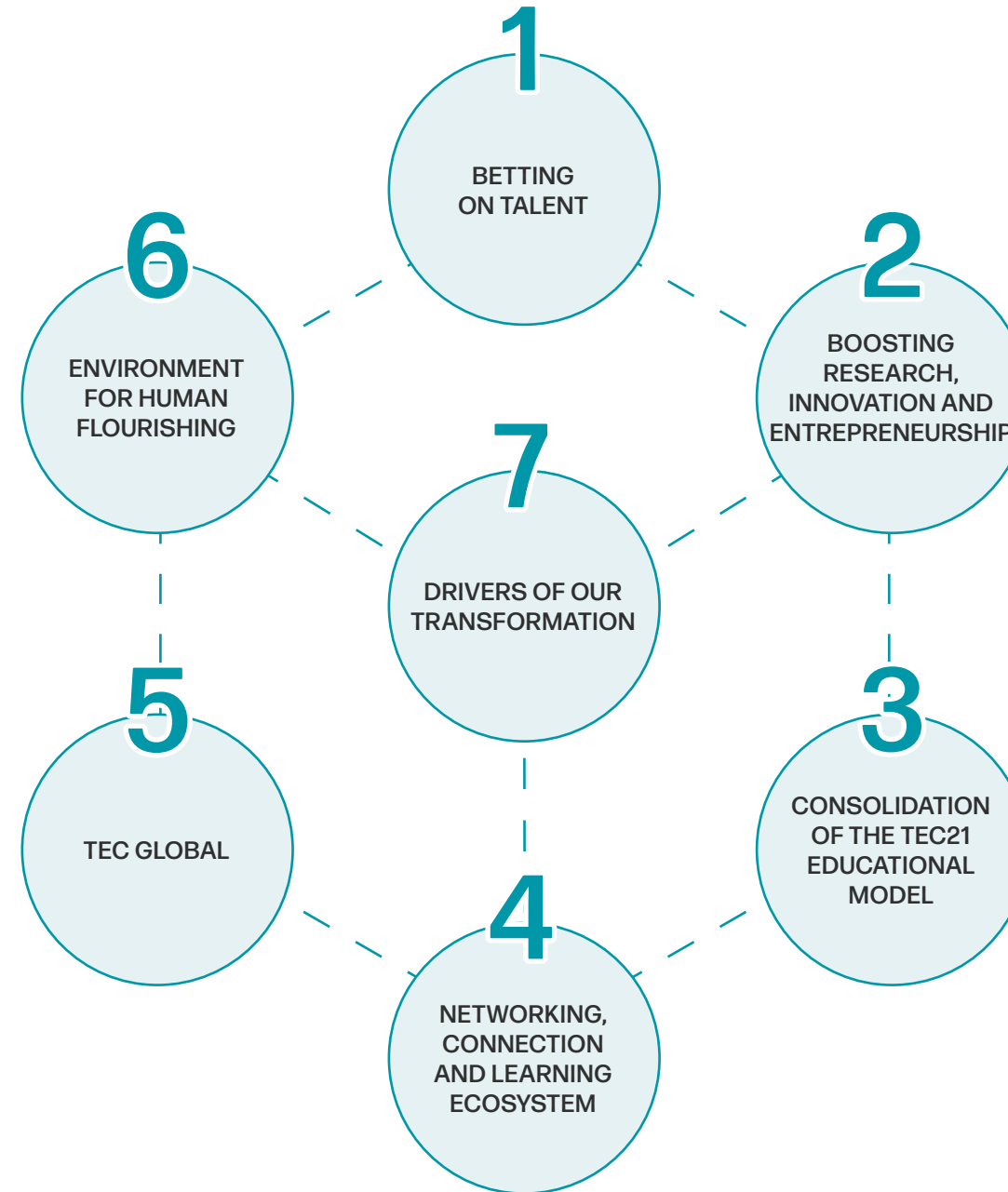
Strategy for evolution

This is How We Evolved in 2022

In 2022 progress was made in the Strategic Plan 2025.

The strategic initiatives are comprised of strategic projects to be developed over the next few years. Every project has a clear and defined goal of what it hopes to accomplish, as well as the expected achievements by 2025.

Strategic Initiatives



Most Relevant Accomplishments of the Strategic Plan 2025

Faculty of Excellence



All of them are international leaders in their fields, such as nanoengineering, retail and marketing, urban planning, advanced logistics, mathematical modeling, entrepreneurship, among others.

Consolidation of Tec21 Educational Model

Successful execution of Tec Semester in its different modalities:

- a) **Professional research and entrepreneurship internships.**
- b) **106 concentrations.**
- c) **International exchange.**
- d) **Elective educational units.**

The recently created **Center of Assessment and Alternative Credentials** has defined the characteristics of the competencies badge that will be awarded to the **first generation of alumni graduated from the 2019 programs.**

Interdisciplinary Research Institutes

Launch of the **Institute for Obesity Research** and the Institute of Advanced Materials for Sustainable Manufacturing.

Launch of Venture Café Monterrey

A space that allows members of **the innovation and entrepreneurship ecosystem** to connect and collaborate to enable solutions focused on solving global issues that affect the city.

MIT REAP Focus Mexico

Start of the **MIT REAP Focus Mexico** program as a strategy to offer Mexico City, Guadalajara, Chihuahua, Guanajuato and Querétaro the tools that will allow them to **boost the development of innovation and entrepreneurship** ecosystems through the launch of -at least- one high impact strategic intervention.

Second Phase of distritotec

Beginning of the second phase of distritotec, which seeks to create a district of innovation with the construction of Expedition, the district's catalyst building and where we will seek to solve the great problems of humanity.



Connection, Learning and Creation Platforms

Development of platforms with value creation models focused on the differentiators of the two ecosystems, leaning on intelligence tools:

Learning ecosystem:

Consolidation of the platform **Launching Pad** and the release of the peer to peer tutoring platform **SoyTutor**.

Creation ecosystem:

Launch of the **Training Partner's Marketplace** and **Science Connexion** for the creation of interdisciplinary teams.

Evolution of Continuous Education

Kick-start of the new continuing education platform "The Learning Gate". We launched professional paths in it to cover demand for topics such as data science, marketing, sales, leadership, and finances.

1,190

Learning hours* represented in **119 modules** on different topics

* Accumulated hours dedicated by the platform users.

Wellness

TECMed Center

Standardization of the **national basic medical care** available in the **68 medical units** of TECMed Center, found in 37 Tecnológico de Monterrey premises and that provided over **60,000 medical services**.



Wellness Index

Design and implementation of the individual Wellness Index to **identify first year students' wellness level**, as well as protective and risky factors, to take action with the students through their success advisors and network of experts.

Strategy for evolution

Ruta Azul

75% of renewable energy consumption throughout all the institution

100% of renewable energy consumption at TecSalud's Zambrano Hellion and San José hospitals

40% reduction of greenhouse gases

Implementation of the contingency plan for the water crisis in Nuevo León, which up to september 2022, saved 13 million liters.

Deployment of the guide to sustainable events, which prevented the waste of 86,800 single-use PET bottles

Diversity and Inclusion

Deployment of the first Diversity and Inclusion guides: inclusive language, accessible and inclusive contents, and accessible and inclusive events.

Tec Woman Award

10mo Tec Woman Award presented

Recertification, for third time in a row, by Equidad MX as the "Best LGBTQ+ Place to Work", a program of Human Rights Campaign.

Art at Tec

Strategic alliance with Science Gallery, an international network that promotes convergence between art, science and technology.

Strengthening of a Philanthropic Culture

Launch of the comprehensive campaign "Intervening the future" with a goal of

5 billion pesos

for the 2025-2026 period, a multi-year fund raising effort that integrates all of Tecnológico de Monterrey's inspiring projects.

Creation of three endowed chairs:

FEMSA Endowed Chair Director of the Institute for The Obesity Research

FEMSA Endowed Chair of Urban Planning*

FEMSA Distinguished University Professor of Conscious Enterprise

*Title pending

Digital Route

+200 improvements

to the public experience



Chapter 2.0

Tecnológico de Monterrey



2.0 Tecnológico de Monterrey

Education



Educational Model

Our Tec21 Educational Model is unique. It allows the acquisition of strong and comprehensive competencies that will help our students solve in a creative and strategic manner the challenges of the present and future.

We consolidated and strengthened the model with our faculty, **who are the heart of our institution;** the internationalization initiatives, which allow our students to expand their knowledge beyond our borders; and the actions carried out to transform the learning experience through educational innovation.

Educational Model

Education



This Year was the Start of the Fourth Generation of the Model

We continued with the consolidation of our model, reinforcing Tec Week, with the implementation of Tec Semester, the new Competencies Evaluation Model and the devising of **multidisciplinary (27) and comprehensive blocks(53)**. With these, we keep moving forward with a continuous improvement philosophy to give our students the best experience.

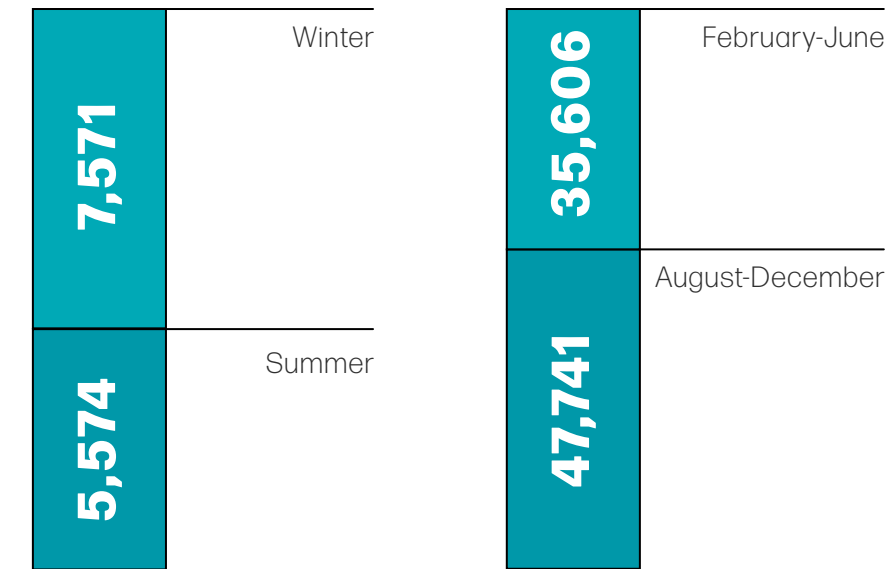
+400 educational units were designed

Continuous improvement of +1,500 educational units



Student population in Tec21 by academic term

In 2022



30,875 classes taught during the Feb-June and Aug-Dec semesters

Student satisfaction Tec21 Model

We continue to increase our student's satisfaction with our Educational Model

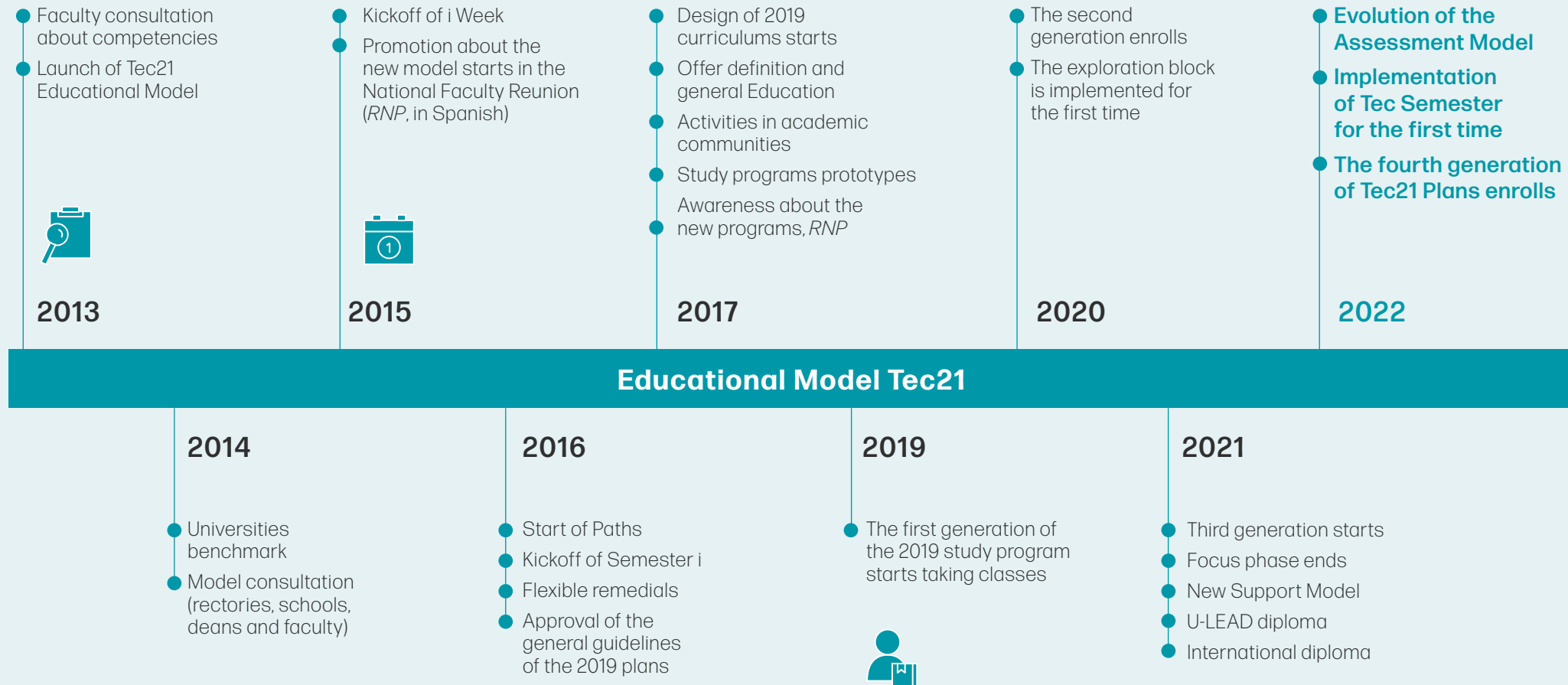
58%

5.5 pp vs. Aug-Dec 2021

Educational Model Tec21

Tec21 Educational Model promotes the development of competencies through challenge-based learning.

Milestones in the History of the Tec21 Educational Model initiative

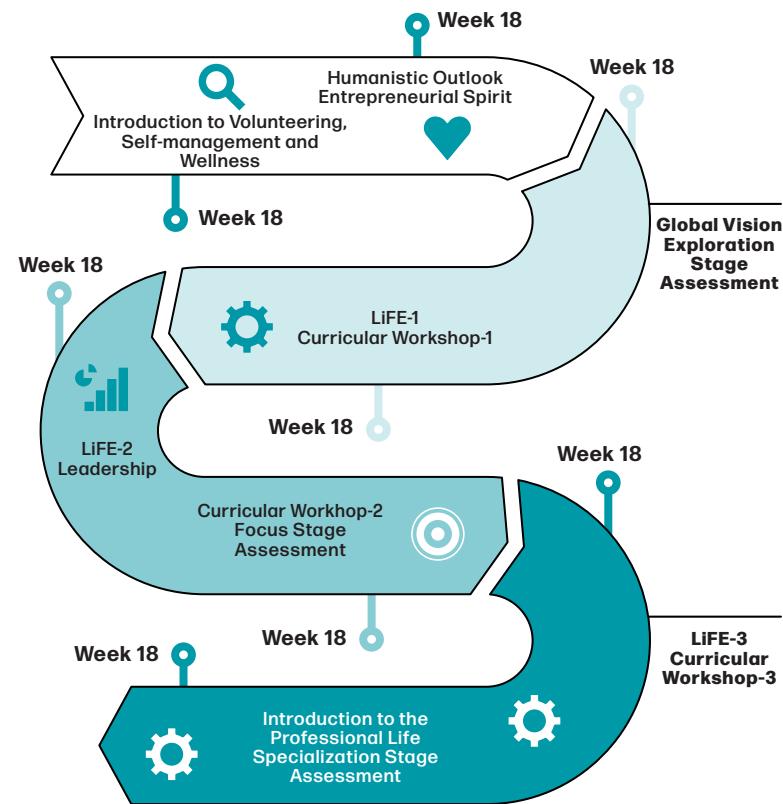


Tec Week

On the 6th, 12th and 18th weeks of the semester, the students live Tec Week, an educational unit in which they experience a week of immersion with activities designed for them to **develop competencies** and **discover new skills**.

This year the structure of types of Week 18 evolved to one called "Assessment and feedback".

During this year, Tec Week was introduced as a **journey of experiences** that the student lives in different moments of their career.



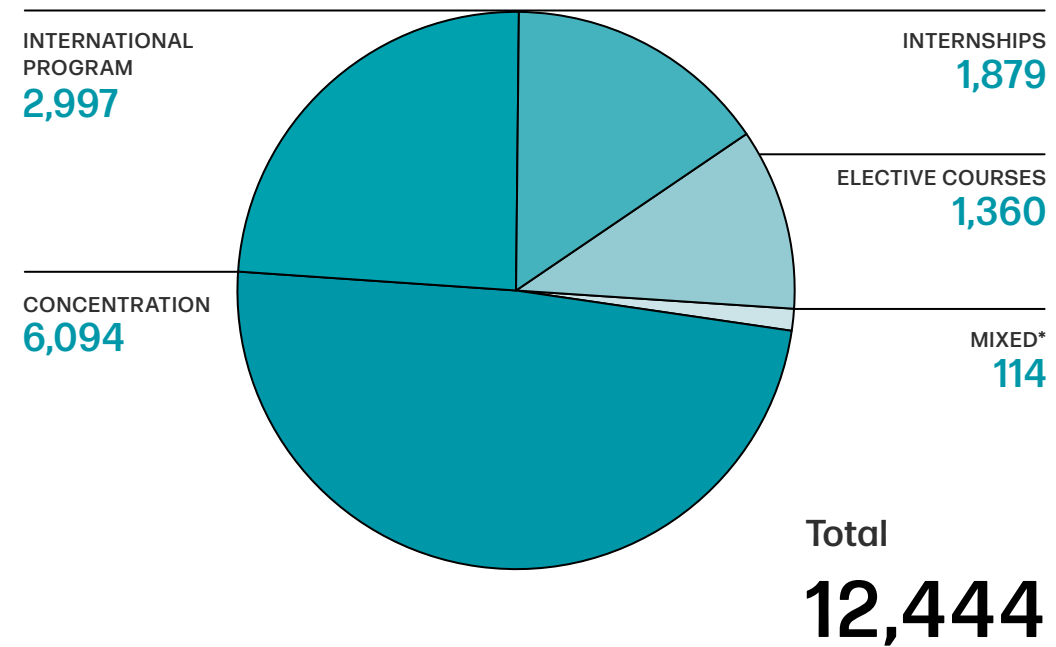
Tec Semester

It is located in the **specialization stage (sixth, seventh and eighth semesters)** of the academic plan of each program. These Tec Semesters enable our students to **delve into their professional career** or **broaden their education** by connecting with one or more subjects. Experiencing this semester can be done through four modalities:

- Concentrations
- International student exchange
- Entrepreneurship or research professional internships with an Education Partner
- Elective subjects and blocks

Participation of students in Tec Semester

Sum of semesters FJ22 and AD22




*combination of 2 or more options

Faculty

Our High-Impact Faculty: Attracting New Scholars

In 2022, the impact of our faculty got stronger with the incorporation of:


203

full time faculty members


20%

of full time hires are foreign scholars


100

Global Visiting Faculty




49%

of full time new hires have
graduate studies abroad


27%

of full time new hires have
graduate studies abroad from
a **Top 200 university***



* The rankings of QS, THE and AEWU from foreign universities are being considered

Faculty of Excellence

With the objective of attracting **100 global leading scholars by 2026**, Faculty of Excellence is one of the biggest efforts to strengthen the faculty in the history of the Institution.

By november 2022, **17 professors have been incorporated** to this initiative, with the mission to build a legacy that solidifies Tecnológico de Monterrey's international prestige through the impact on our students, faculty, programs, and in society.

Development and Wellness of the Faculty

Center for Faculty Development and Educational Innovation (CEDDIE, in Spanish)

6,049 professors from all participating campuses **177** Refresher Courses on the Discipline (CADIs, in Spanish)

4,000 faculty members part of the Professor Wellness Program

National Faculty Reunion 2022

Our faculty: impact, proximity and technology, first hybrid multi-site event

+4,500 registered faculty members



Recognizing the Impact of our Faculty

Assessment in ECOA, the Students' Evaluation Survey

Our faculty members **keep improving their recommendations*** in the students' evaluation surveys, in the academic period 21-22

*Professor percentage with evaluation grades greater than or equal to 9.00 in ECOA

% Professor Satisfaction¹

Undergraduate:

TEC21
67%

+2.4 pp vs 20-21

Graduate:

68%

+10.2 pp vs 20-21

Professors' rating average²

Undergraduate:

9.0

Under Tec21

Graduate:

9.0

Under graduate degree

¹% of answers greater than or equal to 9

²Professors' rating average (scale 1 to 10)

Faculty Classification

140 professors have some kind of classification, of which:

- 8** are tenured
- 24** are associates
- 108** are assistants

Nuevos profesores titulares:



Iliana Rodríguez Santibañez, Social Sciences and Government in Mexico City campus.



Ciro Angel Rodriguez Gonzalez, Engineering and Sciences in Monterrey campus.



Eva María Guerra Leal, Business in Monterrey campus.

Tenured professors are celebrated as an **example of excellence** nationally and internationally for their level of accomplishments and human quality.

National winners of the Inspiring Professors Award:



Federica Maria Alessandra La Morella from PrepaTec Mexico City campus.



Eder Alonso Hernández Vite from PrepaTec Santa Catarina campus.



Laura Eugenia Romero Robles from the School of Engineering and Sciences in Monterrey campus.



Ashutosh Sharma from the School of Engineering and Sciences in Querétaro campus.



Sergio Arturo Bárcena Juárez of School of Humanities and Education in Mexico City campus.

Circle of Outstanding Faculty

Professors celebrated for their accomplishments in teaching and intellectual vitality:

 **283**

professors
recognized
in 2022

 **21**

more professors
than in 2021, and 52
more than in 2020



Faculty members recognized by external institutions

26 full time professors from the School of Social Sciences and Government, School of Engineering and Sciences, School of Medicine and Health Sciences, Business, and EGADE Business School were included in Stanford's World's Top 2 % Scientists.

- **Leopoldo Eduardo Cárdenas Barrón**
EIC - MTY
- **Bryan Husted**
EGADE - MTY
- **Roberto Castro Muñoz**
EIC - TOL
- **Hafiz Muhammad Nasir Iqbal**
EIC - MTY
- **Sergio Serna Saldívar**
EIC - MTY
- **Salvador Venegas Andraca**
EIC - CSF
- **Alex Elías Zúñiga**
EIC - MTY
- **Julio César Gutiérrez Vega**
EIC - MTY
- **David Romero Díaz**
EIC - CCM
- **Roberto Parra Saldívar**
EIC - MTY
- **Guillermo Torre Amione**
TecSalud - MTY
- **Ajñesh Prasad**
EGADE - CSF
- **Mostafa Hajiaghaei-Keshteli**
EIC - PUE
- **María Soledad Ramírez Montoya**
IFE - MTY
- **Marco Rito Palomares**
TecSalud - MTY
- **Daniel Jacobo Velázquez**
EIC - MTY
- **Mario Moisés Álvarez**
EIC - MTY
- **Gerardo Escobar Valderrama**
EIC - MTY
- **Israel De León**
EIC - MTY
- **Gaurav Chauhan**
EIC - MTY
- **Arturo Molina Gutiérrez**
Inst. Manuf - MTY
- **Tamir Bar-On**
ECSG - QRO
- **José Ernesto Amorós Espinosa**
EGADE - MTY
- **Hatem Azim**
EMCS
- **M. R. Mohammadi**
EIC - PUE
- **Carmita Camposeco**
EIC - TOL

Internationalization

The year 2022 was marked by the return to in-person internationalization, the permanence of digital internationalization, and the challenges of incorporating more experiences to the Tec21 Educational Model.

Under our commitment to become an increasingly global Institution, the leaders of Tecnológico de Monterrey participated in different international forums.

International Mobility Agreements

868 updated and renewed academic cooperation agreements for mobility and distance learning

596 universities and partner institutions from **52 countries** with which we collaborated in 2022



International Mobility with Academic Credit

Tec Students Abroad

11,294 lived an in-person international experience

10,673
took courses abroad
with curricular value

269
students had
professional internships

134
students performed
medical rotations

218
students carried out
research stays

736 attended virtual classes
abroad with curricular value

696
subjects with curricular
value abroad

40
students had virtual
professional internships

27
had the
experience in
mixed format

Scholarships and support funds for internationalization

43 Undergraduate students were benefited by the *Garza Lagüera Gonda* family's My International Experience fund, destined for on-site mobility programs

4 Undergraduate students were benefited by the UAM-SANTANDER-TEC scholarship

Tec's international students

In-person format

1,712 international students lived an international experience at Tec de Monterrey, from which

1,680 of them took classes with curricular value

32 of them had a professional internship, research stay, or a medical rotation

Digital format

82 took classes with curricular value

New Internationalization Models: Global Shared Learning

Global Shared Learning (GSL) promotes collaboration between students, professors and international partner universities through technological tools in a digital environment.

Its two main initiatives are:

GSL Classroom

Connects a Tec class with one or more classes from an international university, to connect students, encourage collaboration, and to facilitate learning in multicultural environments.

- **5,167 Tec students** participated
- **4,413 students** from 80 partner universities from 25 countries participated

GSL Week

Students and teachers are connected to a multicultural, collaborative, and comprehensive environment. The success of this format lies in generating an **"at home" international experience.**

- **1,118 Tec student**
- **1,046 student** from 12 partner universities from 10 countries

The Global Shared Learning Classroom model won the U21's innovation award within the **U21 Educational Innovation Symposium.**

GSL Classroom and GSL Week were included as digital mobility successful cases in UNESCO's Virtual Student Mobility report. This initiative was invited to be part of the conferences:

- Sustainable and Inclusive Internationalization Virtual Conference
- organized by York University and UNESCO.
- APAIE 2022 Annual Conference & Exhibition.
- IACEE World Conference on Continuing Engineering Education.
- Global SDGs Best Practices in Empowering the Society
- International Virtual Seminar by Indonesia University.

International Positioning

Tec de Monterrey is member of

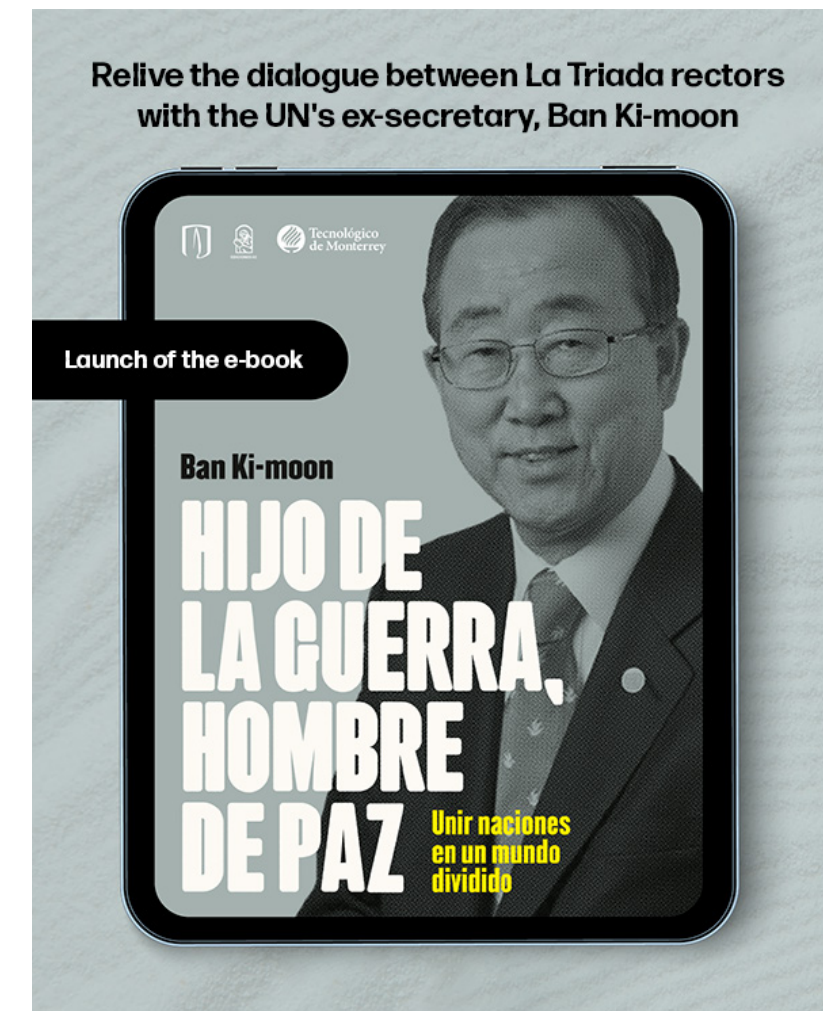
12 prestigious international organizations and networks

such as the Association Pacific RIM Universities (APRU), Universitas 21 (U21), SACSCOC, Edison Alliance, among others

In addition, the President was invited to be part of the Board of APRU, U21, and SACSCOC.

Kickoff of Digital Publishing House

This year's highlight was the **first publication**, in collaboration with La Triada, under the title "*Hijo de la guerra, hombre de paz: unir naciones en un mundo dividido*", from Ban Ki-moon, the UN's ex-secretary.



Educational Innovation

Educational innovation is part of Tecnológico de Monterrey's DNA. Following our calling of innovation in the teaching-learning process, we will continue to move forward with the implementation and deployment of educational innovation initiatives to transform the experience of our students, faculty, and community.

Educational Technology

Educational technologies ecosystem

It is a group of **educational technologies** that boost **Tec21 Educational Model's** teaching-learning process, which are focused on customization. This year strategic initiatives were implemented to improve the teaching-learning process implementation, such as Redesign of Subcompetencies Assessment, Adaptive Learning, and Analytics for learning customization.

Benefited

55,000

students

7,000

professors

Adaptive Learning

Personalized learning routes to boost the academic success within Tec21's educational units.

Initiative's impact

+1,200

students

65

Faculty members

11

educational units

5

campuses

Analytics for Learning Customization

Seizes the information generated in the teaching-learning process by **applying artificial intelligence**. Analytics have been successfully deployed to:

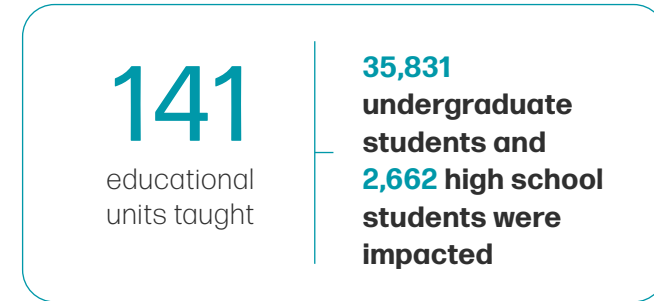
- Identify Tec21's **competency process** in our students.
- Follow up academic leader's **educational programs**.



Digital Education

The new Digital Education model is part of the institutional strategic plan to **ensure significant long lasting knowledge** in our students, through the application of innovative pedagogies based in the intentional, systematic, and conscious usage of digital media and technologies.

Within the reach of this initiative



We won the QM Award: Making a Difference for Students, in the Outstanding Impact by a Non-U.S. Higher Education Organization category.

Educational Innovation Initiatives

The first intercontinental telepresence class, with hologram effect, was held among Tec and TU Delft for the School of Architecture, Art and Design, which impacted:

329
students

13
participant professors

7
Educational Units in 5 campuses



Inmersive Learning



+29,000 students
525 professors in **140 subjects**

Impacted by the immersive learning initiative with extended reality

The telepresence technology with **hologram** effect was used in Isabel Allende's exhibition at the 2022 International Book Fair, and with the participation of the President in the National Technology Enhanced Learning Conference in Singapore, among others.

Hall Immersive Room



+5,000 students
52 professors
47 educational units

Tec Virtual Campus

Tec de Monterrey's academic metaverse has enabled:

12,047 students to participate in **148** academic activities

11 campuses have spaces that promote the use of virtual reality, this year **4 new VR Zones**, have impacted **+1,300 students**

Accreditations

Tecnológico de Monterrey's institutional and academic programs accreditations:

Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)*

Federation of Private Mexican Institutions of Higher Education (FIMPES, in Spanish)**

EGADE has the triple accreditation crown: Association to Advance Collegiate Schools of Business (AACSB), Association of MBAs (AMBA), and European Quality Improvement System (EQUIS)

36 programs/Undergraduate campuses are accredited by the Accreditation Board for Engineering and Technology (ABET) and the Association for Education in Journalism and Mass Communication (ACEJMC)

68 programs/Undergraduate campuses are accredited by national agencies recognized by the Board for Higher Education Accreditations (COPAES, in Spanish)

38 Graduate programs were recognized by CONACYT's National Register of Quality Graduate Programs: 12 master's degrees, 10 doctoral degrees, and 16 medical specialities

* 2018 reaffirmation with a 10 year validity

** Reaffirmation in march 2022

Our National Schools

Our reason to be is to provide a quality education, so that through our six National Schools we manage the efforts to strengthen the programs and the faculty to ensure academic excellence.

During this year the School of Architecture, Art and Design (EAAD), the School of Social Sciences and Government (ECSG), the School of Humanities and Education (EHE), the School of Engineering and Sciences (EIC), the School of Medicine and Health Sciences (EMCS), and the School of Business (EN) focused on actions that contributed to the purpose of managing the academic operation, ensuring quality implementation, and foster disciplinary research.



This is how the National Schools are set up

	Students per school		Faculty per school	
	Undergraduate	Graduate	Full time	Professorship
Engineering and Sciences	25,724	3,045	827	1,784
Business	18,346	2,775	472	2,106
Architecture, Art and Design	6,747	40	173	727
Social Sciences and Government	3,891	301	173	629
Medicine and Health Sciences	3,108	435	155	856
Humanities and Education	2,755	792	187	621
Total	60,571	7,388	1,987	6,723

Engineering and Sciences School (EIC)

Strengthening of the School of Engineering and Sciences

Among the several initiatives and advancements carried out this year, the following stand out:

228 new companies comprised as educational partners, bringing **the total to 523**.

18 national boards of advisors created for each academic program, with 126 members from 11 countries.

Following up the **Professors in the Future** program in partnership with UC Irvine, Carnegie Mellon, Houston University, and the Polytechnic University of Turin.

Actions for the development of our faculty, such as participation in the Downstream program for Mechanics, Electronics and Chemistry professors, among other disciplines, at RWTH Aachen University; and participation in the Soft program for academic management for the development of competencies at Ottawa University.

Research e innovación

The rise of scientific and technological productivity was reflected in:

1,426
publications

300%
increase in scientific-technological productivity in the last 5 years

Consolidation of the School's research groups, with focus topics:

BIO, CYBER, NANO and NEXUS

In the QS Ranking by Subject we excel in different areas with the following positions:

#37
Operations Management

#87
Mechanical Engineering (Manufacture)

#101
Computer Sciences

#138
Electrical Engineering

#139
Engineering and Technology

#151-200
Agriculture

#151-200
Chemical Engineering

#151-200
Civil Engineering

Growth and Expansion of the School's Hubs



Cybersecurity Hub

The diploma course was organized for the Mexican Bank Association, in which over 60,000 employees received training. Opening of new Hub facilities in the Santa Fe campus. Also, we welcomed MIC México and Microsoft as new partners.



Data Science Hub

We won Csoftmty's National Data Science Award, over **200 professors** received training in Data subjects, and we are now the only Mexican University to be part of Quantum Collaborative, an agreement focused on quantum computing with the Arizona State University.



Artificial Intelligence Hub

Activities related to project fAIr continue between the Inter-American Development Bank and the government of Jalisco.

Boosting the Innovation Ecosystem

3 new startups in acceleration

12 technologies identified for licensing

Launch of the new partnerships program: **Corporate Engagement Program (CEP)**

Creation of the **Master Class Sandbox, Innovapreneurs and Talent Scouting programs**

16
workshops taught to:

380
students impacted and innovation tutoring service to:

35
student projects

Continuous Education



Experiential Sessions were held for the CENIT-Colombia group and for the EgyTP and EGADE schools in Monterrey and Mexico City, as well as **Logistics with the Port of Barcelona**, involving the Center for Logistics, and energy topics with the city of Houston.

Strategic Partnerships

Consolidation of more than 30 partnerships with international organizations, such as Global Engineering Council (GEDC) and the Institute of Electrical and Electronics Engineers (IEEE).

Ingenia: Women in Engineering and Sciences

Alliance with **Fundación Carlos Elizondo** for the promotion of scholarships aimed to girls interested in STEM.

The launch of Women Mentoring in STEM, Innovation & Entrepreneurship, a mentorship program for **high school and university women** in other institutions.

Collaboration in related programs like Patrones Hermosos, Ingenia at spotlight, and the **International Association for Continuing Engineering Education (IACEE)**.



Awarded Faculty Members and Students

Faculty

Sergio Serna, research professor

Was recognized as Honorary Professor by the University of Azuay (UDA) of Ecuador, granted only to those who contribute to research development.

Jorge Membrillo, research professor

Author with the biggest number of articles about Challenge-based Learning published in the Scopus database. Currently has 14 publications about this topic.

The Sustainable and Applied Biotechnology research group

developed a packaging for snacks that degrades in two to five years, while regular packaging takes up to 200 years. The OXXO store chain is in the process of implementing it in its products.

Manuel Indalecio Zertuche Guerra, with almost a 37 year career at Tec de Monterrey, retires from the institution and from his position as dean of the School. Julio Noriega Velasco was named as acting dean.



Manuel Indalecio Zertuche Guerra

Students

Starlight team

The team comprised of Sonora Norte campus students is a global finalist and represent Mexico in the NASA International Space Apps Challenge Hackathon. They created a mobile application that will allow users to learn, with an interactive format, about stellar variability.

Santa Fe campus students

Won the first place in the national Electración championship, university competition in which they design, from scratch, a fully electric go-kart type car.

Daniela Cavazos

Is the first EXATEC to be admitted to MIT's Chemical Engineering doctorate.

The Chihuahua campus non-motorized car team

Conquered the El Diamante curves for the third consecutive year in the Gravity Race Car 2022 organized by Tec de Monterrey and the Tlaxcala University. They placed first and second, and obtained the distinction for best design.

Abraham Guerrero

San Luis Potosí campus student that was recognized with a honorable mention by MIT Supply Chain Excellence Award 2022.

Students from the Mexico City region

Created Proyecto Gusani, which achieves the rapid degradation of unicel, going from 800 years to 2 days, with which they won the third place in the Santander X Award.

Business School (EN)

Academic Initiatives

85% favorable opinion of the +900 Training Partners in their collaboration with the School, among them: BanBajío, Aeroméxico, P&G, OXXO, Puma, Citibanamex, BMW, LALA, Coppel, Liverpool, Snickers and L'Oréal.

Among this year's challenges:

Oxxo Challenge



to propose innovative solutions to the company's challenges, according to megatrends in retail.

Telcel Challenge



developed a proposal to add value to the company's clients, focusing on generation Z.

Krispy Kreme Challenge



developed proposals to strengthen the brand's omnichannel quality with a experiences plan.

Horacio Arredondo Villalba was invited to be part of EGADE Business School as the new dean in november 2022.



Global Case Competition at Tec 2022



participated in the first edition of the **Global Case Competition at Tec 2022**, where they developed an innovative proposal to solve a **real business case** from training partner Viñedo San Juan de la Vaquería

EGADE Business School based in Guadalajara carried out the International Workshop on Emerging Business and Regulatory Frameworks in Electricity Markets, a meeting conference for international experts about innovation in the competitive production of electric energy, the ideation of business models that adapt to the new realities of consumption, and solution of the sector's new regulation challenges.

Continuous Education

Among the results of the Closed Programs for Executive Education (U40), the following stand out:

- In the InCompany programs, highlights include the start of the **Program for Management Counselors** by Alpura, and the upcoming start of the Program for Family Businesses, with TRANE.
- Kickoff of the **first generation of the EGADE Search Fund Accelerator (ESFA)**, which accompanies entrepreneurs in the search for and attraction of investors through acquisitions, and the acquisition of companies.
- **10 training programs** in digital transformation.

Launch of the new Open Programs for Executive Education (U40)

- **Leading Business Families Program**, in collaboration with the Institute of Family Businesses for Mexico and LATAM (IFEM).
- **Women Leading Organizations Program**, which promotes the development of women executives in management positions.
- **Health Systems Management Program**, in collaboration with TecSalud and the Mexican Hospitals Consortium.
- **Leadership for Climate Action Program**, in collaboration with the Conscious Companies Center.

Ecosystem of Business School Centers

Retail Business Center

The project **Trends in the retail industry in Mexico** was carried out. Project advisory by international professor Dhruv Grewal: **Business Models for Sustainable Fashion and The Use of Artificial Intelligence in Retail Industry.**

Innovation and Entrepreneurship Center

The panel **"Search Funds & Entrepreneurial Acquisitions"** was held at INCmty, with the participation of Germán Canales, Agua Fría's CEO, and experts from Yale School of Management, Linden Equity Partners, IPADE Business School, and the center.

Financial Think Tank

A specialized publication was done from the project on ASG metrics analysis and Net Zero legislation, headed by professor Luz del Carmen Díaz. Writing of the paper "Diversifying Risk and Beating the Market through ESG Evidence for Latin America", led by professors Jorge Martínez and Teófilo Ozuna.

Digital Evolution Center

The training "Cloud AWS" from Amazon Web Services was given to 530 students, in collaboration with the School's Data Science Hub.

Conscious Companies Center

Publication of the book **Empresas Mexicanas: El Viaje hacia un Capitalismo Consciente** with 13 inspirational cases of companies that promote and practice conscious capitalism.

Launch of Raj Sisodia's podcast "The Conscious Capitalists", Distinguished University Professor of Conscious Enterprise, at Tec Sounds.

FAIR - Center for Financial Access, Inclusion and Research

The call for FAIR FINTECH Lab 2022 attracted 44 proposals for fintech projects, from which 15 were selected for incubation, outreach, and partnerships, with the professional support of the center.

Family Business Institute (IFEM)

We supported **four families from Mexico City, Querétaro, Michoacán and Colombia**, part of the automobile, real state, and commerce sector.

The INC Family Forum was organized with **120 people** in attendance from 11 states of Mexico and 11 different industries, 15 workshop leaders and panelists, and nine activities.

School's Research Groups

104 Scopus articles published by the Research Groups in 2022.

International Rankings

We stood out on a professional level for the QS by Subject results:

#30
in Business & Management Studies. We climbed 17 spots in the last two years

#85
in Accounting & Finance. In 2021 we placed in the 101-150 position

On a graduate level, EGADE keeps positioning itself internationally in the QS Global MBA and Business Masters Rankings

#1
in Latin America in Full-Time MBA in Innovation & Entrepreneurship

#1
in Master in Finance

#1
in Latin America in the QS Global 250 Business Schools report for its research excellence

#1
in Master in Business Management

In the Financial Times Executive MBA's global ranking

#1
as the best MBA in Latin America

#20
with respect to the international experience in our courses (International Course Experience)

#14
on a global level in the international Undergraduate experience (International Work Experience)

Eduniversal Business School Ranking

For 15 consecutive years, the Eduniversal Business School ranking named EGADE as the best Business School in Latin America, giving us the distinction of "**5 Palms of Excellence**", being the only institution in Mexico to have it. Additionally, in Eduniversal's Best Masters Ranking our Master in Finance occupies the **first position in Corporate Finance**, as well as MBA's General Management.

Education Quality Accreditation Agency

EGADE was celebrated by the Education Quality Accreditation Agency (EQUAA), during the award ceremony in Spain in 2022, in the category of **Academic and Institutional Internationalization** because to the initiative "**De lo presencial a lo digital: EGADE transformando la experiencia internacional del estudiante**".

Awarded Faculty Members and Students

Faculty

Carlos Scheel

Professor at EGADE Business School, was recognized by Waxsen University in Hyderabad, India, which established the Carlos Scheel Professor Chair in Circular Economy and Sustainable Innovation, in honor of his trajectory, contributions, and international leadership. In addition, the professor led the SWIT model working group for sustainable wealth generation, and was recognized at the AMBA & BGA Excellence Awards 2022.

Eduardo Carbajal

Professor at Monterrey campus, participated in the elaboration of a circular economy business plan for the Gulu University and the Nelson Mandela African Institute of Sciences and Technology, in Africa.

Alejandro Servín Arroyo

Professor at the Guadalajara campus, he participated as an international speaker in the "Social Media Seminar" in Bogotá, organized by the General Secretariat of Foreign Affairs of the Government of Switzerland; in the "Global Design Challenge", organized by UNESCO and the Liiv Center in New York; and in "Gen Z: Digital Journey", organized by Google Latin America in Mexico City.

Celia Fabiola Vásquez

Professor at Santa Fe campus, participated as a Visiting Scholar at MIT's Center for Transportation and Logistics.

Ernesto Amorós

Research professor at EGADE Business School, is member of the World's Top Scientists, created by Stanford University.

Edgar García

Professor at Monterrey campus, was a facilitator in the social entrepreneurship international competition at Camilo José Cela University.

Ajmesh Prasad

Research professor at EGADE, is member of the World's Top Scientists, created by Stanford University.

Bryan Husted

Research professor at EGADE, is member of the World's Top Scientists, created by Stanford University.

Students

Alejandro Rivas, Dina Román, Jocelyn Donají Escareño, Jorge Alberto Mendoza and Julio Andrés Bohórquez

Students from the Guadalajara campus, obtained the pass to the continental final of the CFA Institute Research Challenge, a financial analysis competition, and reached the 6 best performances of the continent in the semifinal held in New York.

Lorna Obando y Ricardo Argüelles

Lorna Obando and Ricardo Argüelles
Students at EGADE, stood out as finalists in the second edition of the Global Stock Trading Competition, organized by the Yale School of Management.

Architecture, Art and Design School (EAAD)

The **Creative Leaders** program promotes the connection between the School's and Tecnológico de Monterrey's community with national and international leaders for them to share their knowledge and experience surrounding the strategic initiatives of the School: Design for Value, City, and the Arts initiative.

Awards and Acknowledgements

Students, EXATEC, and faculty members from the School participated in the development of **movies and television series** like **Discovery Kids México** and **Day of the Dead**.

Were awarded prizes in short film festivals for the **Best animated short film** in the Sunscreen Film Festival 2022.

Won **honorable mentions and awards in national and international competitions** like On Water from Next Generation Water Action, Inédito Universitario from Design Week Mexico, Red Dot Design Award 2022 in Germany, and the SIGA Award in Monterrey.

This year we had five guests:

- **Víctor Legorreta**, CEO and design director of LEGORRETA.
- **Alejandro Aravena**, winner of the 2016 Pritzker Prize and visiting professor from Harvard University.
- **Tadao Ando**, winner of the 1995 Pritzker Prize and member of the Royal Academy of Arts.
- **Frances Whitehead**, collaborator at ARTetal Studio and professor emeritus at the School of the Art Institute of Chicago.
- **Kazuyo Sejima**, winner of the 2010 Pritzker Prize and co-founder of SANAA architecture studio.

Exhibitions

We participated in national exhibitions such as **Mextrópolis 2022 / XII BIAU, Zona MACO and Design Week Mexico** in Mexico City, in the **Pixelatl 2022 festival** in Guadalajara and in the **Monterrey International Book Fair**. Participation in international forums such as **Milan Design Week and Milan Jewelry Week 2022** in Italy, **Wanted Design** in Manhattan, United States and the **Guggenheim Museum** in Bilbao, Spain, with the piece "Destinos Diversos" in the exhibition **MOTION: Autos, Art, Architecture**, curated by British architect Norman Foster, among others.



Rankings

This year it climbed in the results of the QS World University Rankings by Subject

51-100
in Art & Design

101-150
in Architecture,
Built Environment

Research Groups

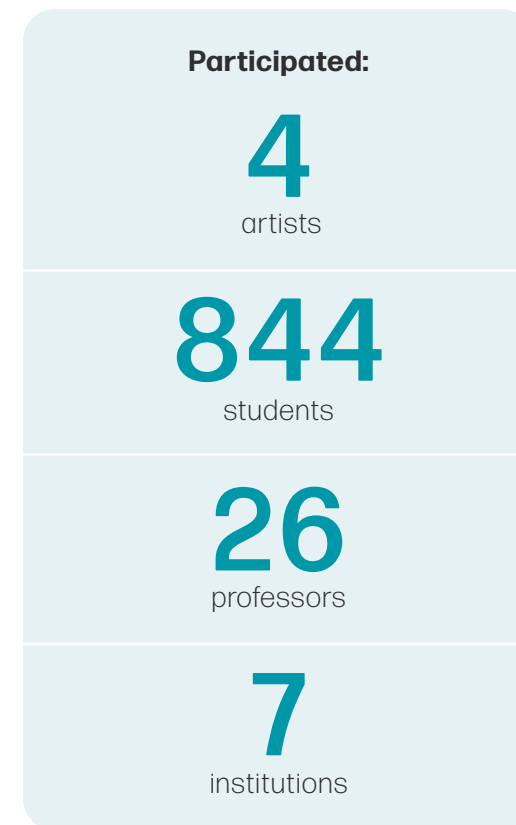
A new research group was created: Advanced Design Processes for Sustainable Transformation.



Achievements and Advancements of the Schools Initiatives

Arts

Second generation of Artists in Residence, an initiative aimed at artists to encourage the development of experimental artistic projects through the exploration of new technologies in dialogue with the city, the community and memory.



Cities and Communities

Through C-Lab, a platform that seeks to help lead our communities towards sustainability, inclusion and innovation, **22 projects** were developed with municipal governments and communities in the areas of:

📍 **Monterrey, Guadalajara, Querétaro and Mexico City, in addition to international projects.**

The second edition of the Educational Course for Urban Managers was held in Cartagena de Indias, Colombia in October 2022.

The Cities Observatory created the project **"Ciudades para Todos"** from the Inter-American Development Bank's (IDB) Cities Laboratory, and participated in the exhibition in the context of the **50th anniversary of INFONAVIT.**

Awarded Faculty Members and Students

Professors

José de la O

Head of the Design Department in Mexico City, won the MDF Designer of the Year 2022 award, presented by Rimowa.



Students

Daniela Cruz, Angélica García and Diego Montoya

From the Querétaro campus are winners of the Next Generation Water Action Prize, their project is a design based on chinampas as a way to develop an urban and environmental regeneration solution in Brooklyn, with the advice of their professors Diana Cejudo and Rodrigo Pantoja.

Victoria Talamantes, Jorge Ortegón, Livier Hernández, María Fernanda Lara, Fernanda Ordorica, Mónica Sánchez, Paola Rivera and Luisa Medina

Lived an international experience at Aalto School of Arts, Design and Architecture in Helsinki, Finland, to propose circular economy solutions through design.

Short film MIGO

The students of the Bachelor's Degree in Digital Art at the Guadalajara campus, with their short film MIGO, won the best animated short film at the Sunscreen Film Festival 2022.



Social Sciences and Government School (ECSG)

Achievements and Advancements of Projects and Strategic Initiatives

Members of Reach Alliance

We are one of **8 universities** participating in Reach Alliance, founded in 2015 at the Munk School of Global Affairs & Public Policy at the University of Toronto. Reach is a student-driven, faculty-mentored research and leadership initiative that examines how policy interventions and innovations impact the hardest to reach: those living in extreme poverty, the geographically remote, the administratively invisible, and the marginalized. Since the beginning of our collaboration with this initiative, **3 professors and 21 students have participated in various projects.**

Launch of the Scholarship Transformational Talent

The Scholarship to Transformational Talent has the objective to **identify, attract, and support students with talent and leadership skills** to nurture their knowledge and to work on proposals that will transform communities, students that show the capacity to recognize present problems and to face the challenges of the future.

The scholarship covers 70% of tuition for up to 15 outstanding students that want to enroll in one of the programs of the School, to help them to **generate solutions to present and future problems through research and critical thinking.**



Continuous Education

We highlight the updating of the **Municipal Urban Development Plan** of Naucalpan, Estado de Mexico, and the project "Prevention and Reduction of Violence in Mexico".

The implementation of **public policies** to combat **money laundering** for the Unidades de Inteligencia Patrimonial y Económica Estatales (UIPES) of Chiapas, Baja California Sur, and Michoacan.

Additionally, we carried out a series of conferences for the metropolitan mayors' offices of Monterrey and Mexico City, with the participation of **mayors and collaborators**.



Main Advancements and Achievements in Research Groups

Research Stays

11 research stay projects deployed with the participation of

3
international

66 students and **1 education partner** per project

8
nationals

Scopus Publications

30 Q1 and Q2 Scopus publications, with

25 citations to date

National System of Researchers

14 professors obtained new classifications in the National System of Researchers:

3
Level 1

11
Level C

Awarded Faculty Members and Students

Faculty

Susana Peña

Imparts and coordinates the Tec ELITE Global Week "Diversity in a Globalized World" in partnership with professors and students from foreign universities, such as the University of Notre Dame and BINUS University, in which 534 Tec students from 20 campuses participated.

Sebastián Vallejo

From Santa Fe campus, published an article in "Scientific Reports" from Nature, one of the most prestigious scientific journals on an international level.

Students

André Salinas, León Hernández, Alexa Jeressi, Alejandro Domínguez and Verónica Márquez

From the Monterrey campus, won first prize in the INFONAVIT Economy Award.

Mariana Frías Coss and Sebastián Nin Sánchez

From the Monterrey campus won first place in the second edition of FINANHACK 2022, organized by Refinitiv LATAM and BIVA Institute. They developed a machine learning algorithm to forecast changes in inflation.

Arturo Nepomuceno, Marla de la Cruz, Alejandra Martínez and Gonzalo Mendoza

From the Monterrey campus were selected to be part of the Reach Alliance network of researchers, from the University of Toronto.

Mariana Frías Coss and Sebastián Nin Sánchez



Government and Public Transformation School (EGTP)

Miguel Ángel Santos was named during this period as the dean of the Government and Public Transformation School.

The Master's degree in Government and Public Transformation was launched with a perspective of innovation, public entrepreneurship, and based on data science, which seeks to develop and implement technologies, processes, and intersectoral systems to promote projects that have an impact on the transformation of public value.



Achievements and Advancements in Projects and Estrategic Initiatives

Impact and involvement of students in the strategic initiatives

They aim to contribute to public transformation through the generation of knowledge, training, and advocacy for the resolution of problems from a technological perspective and with social responsibility. Since 2022, the School's students can **collaborate** in these initiatives and participate in high-impact projects or case studies, in order to broaden their knowledge and gain experience in various fields.

The initiatives currently operatering at the School are:

- Entrepreneurship and Transformation Laboratory (LET)
- Transparency and Anti-corruption Initiative, Digital (ITAC)
- SDG at Tec
- Education with Equity and Quality Initiative (IEEC)
- Artificial Intelligence with Public Value Initiative
- Gender Program
- Initiative for Economic and Demographic Transition (ITED)
- LegalTec Lab
- Public Policy and Health Initiative (IPPS)
- Science of Decisions Initiative

Decision Making Under Deep Uncertainty (DMDU)

For 3 days, nearly **87 researchers** from more than **50 universities** worldwide attended the DMDU annual meeting to discuss methodological innovations, sustainability, risk analysis, and decision making. Some of the outstanding participants included: Steven W. Popper, Robert Lempert, Jazmin Zatarain, and Edmundo Molina, professor of the School and organizer of the event.

Urban Expansion Monterrey Project and Website

This project, led by Roberto Ponce, aims to use a series of quantitative methodologies and visualizations to characterize and analyze the urbanization process in Monterrey. It presents more than 30 years of data and information to trigger a conversation about the city we want and need for the future. The project was carried out in collaboration with distritotec and Fundación FEMSA.

Data Science Center

It boosts the data ecosystem applied to public policy problems. Its value is three-dimensional, as it empowers the decision-maker, improves the public problem, and trains students in the right, equitable, and fair application of data.

Coordination of the Support Group for the creation of the new federalist Constitution of the State of Nuevo León

Pedro Torres, a professor at the School, coordinated the Group supporting the analysis of the preliminary draft of the new federalist Constitution of the State of Nuevo León. The Constitution came into effect in October 2022, and among the specific contributions of the School is the inclusion of the concept of public entrepreneurship in the third constitutional article.

New Accreditations and Alliances

Summer School DMDU

The School brought together undergraduate and graduate students, postdoctoral researchers, and faculty from different national and international universities for 8 days of intensive study and interdisciplinary training in DMDU.

Faculty participation in Data Science for Public Good with the Carnegie Mellon University

The 12 week program seeks to teach international students, governments, and NGOs around the world the application of data science, machine learning, and artificial intelligence through 10 real public policy projects.

MIT AI Policy Forum

Participation of our faculty in global round tables of discussion to generate an agenda that helps to implement, with positive impact, artificial intelligence in decisions and public policy strategies.

Awarded Faculty Members and Students

Faculty

Fernanda Sobrino

Doctor in Economics from Princeton University. She has extensive experience in applied microeconomics, crime economics, and data analysis with machine learning techniques.

Roberto Durán

Doctor in Regional Development and Infrastructure from Oxford University. He is a specialist in development, strategic planning, infrastructure, public finance and restructuring of operations. Among his collaborations, his participation in the WHO Council on Health Economics for All with economist Mariana Mazzucato stands out.



Daira Arana Aguilar

Students

Tabatha Melissa Cantú Reyna

The student won the Global Essay Competition of the University of St. Gallen, Switzerland, for their public policy proposal to fight child obesity in Mexico. Cantú Reyna also received the Global Ambassadors distinction from the Korea Development Institute (KDI School of Public Policy and Management).

Daira Arana Aguilar

The student participated in the discussions on the National Law on the Use of Force in the Mexican Congress, highlighting the need to care for the mental health of police officers. She also brought to public discussion the distinction between the phenomena of militarization and militarism in Mexico, as well as their effects on the consolidation of democracy and the exercise of human rights.

Nadia García Santaolalla

The student completed a doctoral stay at the Max Planck Institute for International European and Regulatory Procedural Law's guest program. She is the winner of the Certificate of Excellent Contribution, issued by the United Nations in the framework of the Policy Hackathon on Model Provisions for Trade in Times of Crisis and Pandemic in Regional and Other Trade Agreements, and also a speaker at the Geneva Trade Platform.



Humanities and Education School (EHE)

The thirtieth edition of the Monterrey International Book Fair, held at Cintermex, had:


500
publishing houses


273,437
assistants


1,100
cultural events and activities


1,355
news reports in media

221,000 transmissions' reach on the institutional platforms

First edition of the Short Film Festival at the Cineteca of Guadalajara:

43 animated short films

300 participating students on a national level

Filmmaker Juan Carlos Rulfo was recognized, and with the strategic alliance with the Toronto International Film Festival (TIFF).

33rd National Meeting of the Mexican Association of Communication Researchers (AMIC):

340 researchers from

20 participating faculty members

26 states of Mexico

70 participating students

Differentiating and Cross-cutting Initiatives

Writing Center

23,500 students helped with mentoring and/or workshops

The center is an **strategic partner** of the Tecnológico de Monterrey's Digital Publishing House as an **academic writing consultant for authors**.

Cultural Heritage

The Historic Archive of the Real Caja of Zacatecas, which Tecnológico de Monterrey guards, preserves, and disseminates in the Zacatecas campus, was recognized in UNESCO's Memory of the World Register of Mexico for its exceptional value and the interest this collection represents for the documentary heritage of humanity.

Alfonso Reyes Professorship

More than **35 events** were held, including conferences, seminars, workshops, book presentations and roundtables, generating more than **285,000 reproductions** on digital platforms.

Also, some activities were carried out in connection with the **Passion for Reading program**, strengthening the generation of content, such as the conference given by Michael Kimmel.

The Professorship was consolidated on the campuses with Gustavo Ariel Schwartz's seminar, generating more than **20,000 reproductions** of the transmissions.



Awarded Students

Students

Itzel Andrea Hernández and Jorge Andrés Martínez

from the Puebla campus won silver and bronze medals, respectively, at the AES Latin American recording competition in Buenos Aires, Argentina.

Nelly Garza Bernal

of the Bachelor's degree in Hispanic Literature, collaborates in the Share+ for Mexico project, an accessible and interactive platform for elementary and junior high school students affected by the pandemic.

Andrés Rojas

founder of Aura Records, is linked to Tec Lean Launch in the Entrepreneurship section, and is producing his first album.

Jesús Salvador Valdez

founder of Ear Candy Technologies, has participated in AES Mexico, AES Latam, and AES Argentina conferences, and through his company in competitions like TEC Lean Launch 2020, Brain Mexico 2021, and in the Creative Fund for Arts, Science and Technology 2022.



Students from the Puebla campus in the AES Latin American recording competition

Medicine and Health Sciences School (EMCS)

We named Luis Alonso Herrera as the dean of the Medicine and Health Sciences School.



Most Relevant Projects and Achievements

The **Clinical Simulation Center** was inaugurated on the Mexico City campus and the **Medicine and Health Sciences School** opened its doors on the Querétaro Campus, which will expand the educational offer of the Central Southern Region with the opening of the *Entrada en Salud*, starting in August 2023.

International Rankings

QS World University Rankings by subject

For five years we have been the only Mexican private medical school listed in this ranking. This year we placed second nationally.

#351-400
on an international level

#33
in Medicine in Latin America

The Times Higher Education World University Rankings

#1
of private universities in Medicine & Dentistry on a national level

#2
general on a national level

#501-600
on an international level

International Positioning

AAHCI Latin America & the Caribbean (LAC) Regional Office

The School was named as the **host of the Regional Office for Latin America and the Caribbean** for the Alliance of Academic Health Centers International (AAHCI).

FILS 2022

As part of the activities of the regional office and in conjunction with the AAHCI, the eighth edition of the International Health Leadership Forum (FILS, in Spanish) "Global Health Challenges: Local Solutions" was held in person, with more than 70 leaders from institutions focused on health research, clinical care, and medical education.

Awarded Faculty Members and Students

Faculty



Cynthia Villarreal

From the Monterrey campus, Villarreal won the International Women Who Conquer Cancer (WWCC) Mentorship Award for the 2022 Conquer Cancer organized by ASCO Foundation.

Yareni Gutiérrez

From the Guadalajara campus, Gutiérrez was the coordinator of the Global Shared Learning Classroom course on nutrition in collaboration with the Pontifical Catholic University of Chile, the University of Aberdeen in Scotland, as well as California State University and Drake University in the United States.

Joaquín Zúñiga

From the Mexico City campus, Zúñiga received the Miguel Hidalgo Award- Banda Grade.

Students

Natalia Lozano

From the Monterrey campus, Lozano participated in the International Neuropsychological Society (INS) 50th Annual Meeting with the presentation of the poster The Intersection of Mood and Finger Tapping in Traumatic Brain Injury in collaboration with a team from the University of California at Los Angeles (UCLA).

Carlos López

From the Guadalajara campus, López obtained third place in the National Examination for Medical Residency Applicants (ENARM, in Spanish), reinforcing the academic excellence of our graduates.

Ana Rodríguez

From the Monterrey campus, Rodríguez obtained the scholarship for the International FIA Medical Seminar On the Road Of Motorsport 2022, in addition to being assistant to the medical direction of the Mexican Formula 1 Grand Prix, and member of the Ballester-Esquenazi research laboratory from MD Anderson and the University of Texas.



Continuous Education

The current concept of Continuous Education reflects the need for lifelong learning. Through a diverse portfolio of flexible programs in hybrid and digital formats, leaders, professionals and learning enthusiasts who aspire to continue growing and who require reskilling, upskilling, networking, as well as spaces for personal development are formed. This is how they generate value and a positive impact on their lives and organizations.

83,246

people participated in Solutions Incompany (U40) with 146,621 hours of education



2022

Participants	149,019
Organizations with projects under implementation	475
Projects Incompany (U40*)	1,101
Launch of catalog programs (U4P)	714

*Solutions Incompany

The Learning Gate

2 complete topic areas on Leadership and Data Science that represent:

- 6** career paths
- 34** professional competencies
- 96** professional subcompetencies
- 912** learning hours
- 775** learners enrolled
- 9,555** modules bought

University for People (U4P)

In 2022 there were **16,028 people** enrolled in Continuous Education open programs.

Solutions Incompany (U4P)

124,544 people
145,002 hours of education
1,101 projects

New Products

10 microcredentials created in topics like construction, data analysis, and coaching.

Tec on demand was created, it gives access to unlimited exclusive content of Tec de Monterrey for professional development and actualization.

Alliance with Pearson Education

Entrepreneurship in Tec's DNA

In ten years of life, the [Eugenio Garza Lagüera Entrepreneurship Institute](#) has consolidated its position as the driving force of entrepreneurship at Tecnológico de Monterrey, ensuring its position as a university leader in entrepreneurial training, communication, and entrepreneurial culture in Mexico and Latin America, promoting the creation of businesses, and being the only Latin American university internationally recognized.

In these years, more than **11,325 entrepreneurs** have been impacted and more than **10,200 jobs** have been generated through the largest ecosystem of services in Latin America, with Technology Parks, incubators, and mentorship networks.

This year

+30,000

students received some kind of **entrepreneurial guidance** in their curricular programs

Entrepreneurship is part of Tec de Monterrey's DNA



Entrepreneurial Training

Our Tec21 Educational Model's students lived:

11,240

students in Tec Week groups with a entrepreneurship theme

162

Innovative Social Entrepreneurship groups

2,347

group classes with the subjects of Entrepreneurship and Innovation

121

educational units incorporated entrepreneurship at different Schools, which represents a total of:

2,796

impacted students

145

students benefited by the Scholarship for Entrepreneurial Talent

85%

of professors who teach Entrepreneurship have entrepreneurial and business experience

+3,550

students in high-impact entrepreneurial activities*

1,345

students enrolled in specialized academic programs with the purpose of creating a business during their studies

19,625

students guided in mass academic programs for the promotion of the entrepreneurial spirit

Launch of the Conscious Entrepreneurships Accelerator.

Our entrepreneurship model is considered a successful case of study in the report "Innovation and Entrepreneurship in Higher Education Institutions in Latin America", led by the OECD, IDB, and Santander Universities.

Entrepreneurship Initiatives and Startups

Accelerated incubation Tec Lean programs that support entrepreneurs with different levels of maturity.

Business Incubation

299

Impacted businesses

177 in exploration stage

71 in launch stage

51 in growth stage

*Examples of these activities are hackathons, bootcamps, business model contests, social entrepreneurship contests, startup weekends, among others.

Innovative Social Entrepreneurship

Support program for social and/or environmental entrepreneurs in early stages:

8 Hubs
of Social Entrepreneurship

In the Guadalajara, Monterrey, Querétaro, Mexico City, Puebla, León, Toluca and Chihuahua campuses

192 participating projects from
335 students, from which

9 projects won in international competitions

The PyMES SOS Program came about in April 2020 because of COVID-19's economic effects to trigger the digital transformation of traditional business. This is its impact:

228 participating mipymes

238 student advisors

25 consultants

3

accreditations part of the PyMES SOS program

INCmty

The entrepreneurship festival powered by Tec de Monterrey

Tenth anniversary of the entrepreneurship festival INCmty

10,000
participants

50

venture capital and corporate venture capital firms

+300

national and international speakers

+100

startups applied to the INCmty accelerator



Graduate Programs

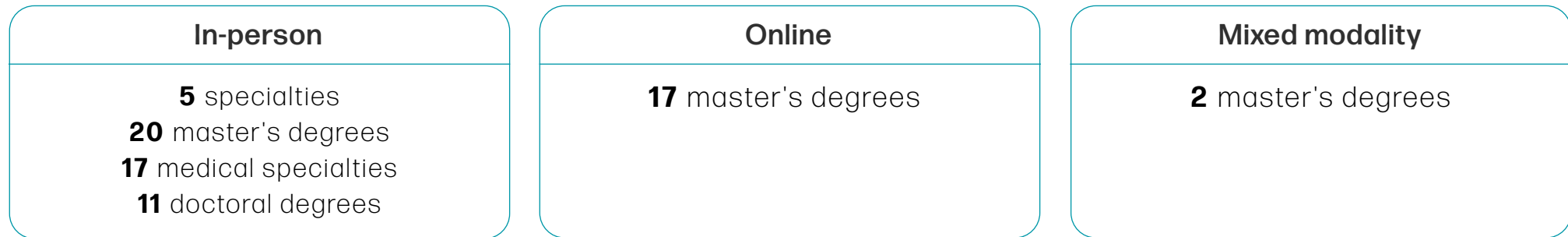
The **Direction of Graduate Programs** is defining the **new models of professional and scientific graduate programs** in terms of their tangible value, social capital, and extraordinary experience, as well as the strategic partnerships to social, public, and productive ecosystems so that they become the best option for the public.

16% of graduate students are foreigners

To date, there are 71 programs:



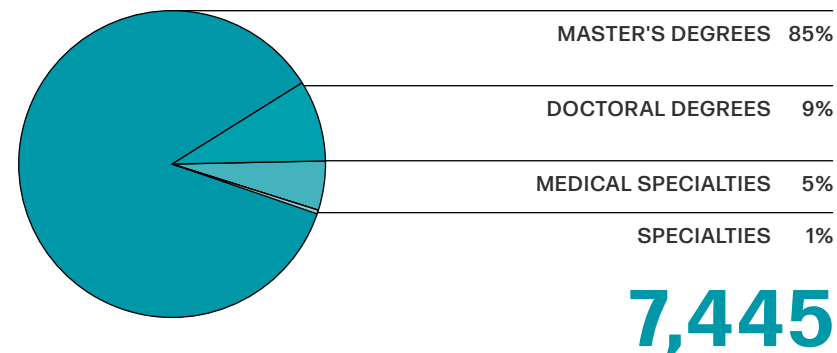
Being taught:



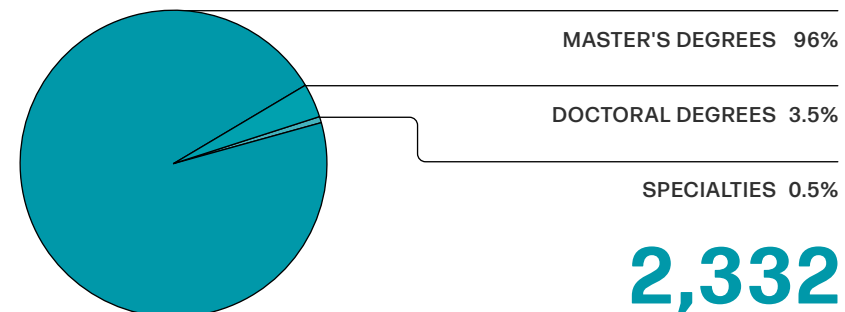
From the 54 graduate programs:

34 master's degrees and specialties of high professional impact 7 scientific master's degrees 11 scientific doctoral degrees

Of the total number of students enrolled in graduate degree program in 2022:



Of the total number of graduate alumni in 2022:



Graduate Programs

Education

PrepaTec

We are committed to helping our students boost their talents, as they are at a very important stage in their lives, where it is their time to discover who they are and what they want to be in the future.

We develop the disciplinary and formative competencies necessary to favor their personal and academic development, as well as their student experience, which is fundamental to their education. Therefore, during 2022, in addition to academic activities, we promoted initiatives such as RULER Day, in which 25,000 young people participated, UNO Day to welcome the new generations of students, the Meeting of

Leaders with Humanistic Outlook on social projects, among others. All this contributes to the transformation and evolution of our students.

+27,000

students in the three **PrepaTec** programs

+8,000

students in all of the **PrepaTec** campuses that experienced their graduation

+3,700

PrepaTec students that traveled abroad in 2022



PrepaTec Initiatives

9,870 new students

UNO Day

It is the **welcoming experience** for the new generation of PrepaTec students

8,400

students participated in UNO Day

34

high schools

+8,000

students participated in the **Meeting of Leaders with Humanistic Outlook** that brings together the best social projects



In total, they generated

1,479

social projects

1,900

PrepaTec students participated in Tec's artistic talent festival



VibrArt

PrepAppsTec

concentrates the best projects, applications, and technological prototypes with a social approach of PrepaTec students

7,800

students participated in **INCmty**, with:

+2,400

projects

5 campus participated in the **FIRST Tech Challenge**

27

Teams in the **Robotic Competition** category

that achieved:



2

international awards



23

national awards



3

classified to the world competition in Houston

PrepaTec's Borregos

Regarding sporting activities, in the **CONADEIP tournament** the PrepaTec's Borregos got:

 **35** Gold medals

 **34** Silver medals

 **20** Bronze medals


 **5,200**
students participated in the Inter-campus Borregos

Ruler Day

A day filled with activities that seek to promote the development of socioemotional competencies, with the subjects:

- Love Yourself
- Healthfully

 **25,000**
participating students

 **+600**
professors

 **348**
activities

 **1,300**
family members participated


Hagámoslo Bien PrepaTec

In 2022 the first national reunion **Hagámoslo Bien PrepaTec** was held, aimed at promoting the culture of legality and citizen participation.

This initiative is the result of the strategic partnership with the association:

Hagámoslo Bien + Production laboratory SUMA

With over:
 **7,000**
projects

with the participation of
 **27**
PrepaTec campuses

Internationalization at PrepaTec

+3,700

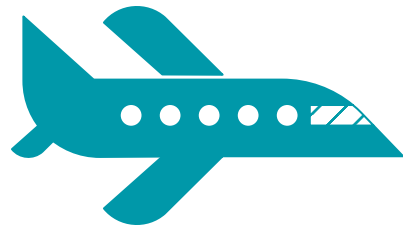
PrepaTec students traveled abroad and were accompanied by

+280
professors



~600

students participated in the international programs on a virtual format



11
countries

43
cities



LiFE, Leadership and Student Education

At Tecnológico de Monterrey, we are committed to generating a memorable student experience through LiFE. With it, we contribute to the comprehensive education of our PrepaTec, Undergraduate, and Graduate students.

710

LiFE disciplines

75,646

students participated in LiFE activities

1,153

Student Groups on a national level

6,196

Group classes



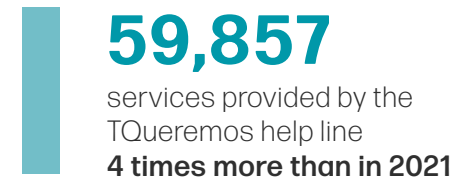
Through its experiential model and accompaniment, LiFE is oriented to the student community to **promote the discovery of their talents and the management of their emotions, encourage leadership in their lives**, and generate social relationships with positive meaning and impact on their environment.

This year, the **priority** was the **integral wellbeing of the student community**. The Personal Wellness Index Initiative was designed and implemented, with the development of pilot programs such as the Inner Knowledge and Compassion Program, Tec Week Your 7-day Challenge, and the Fostering wellness in the classroom program.

LiFE: Contributing to Comprehensive Education

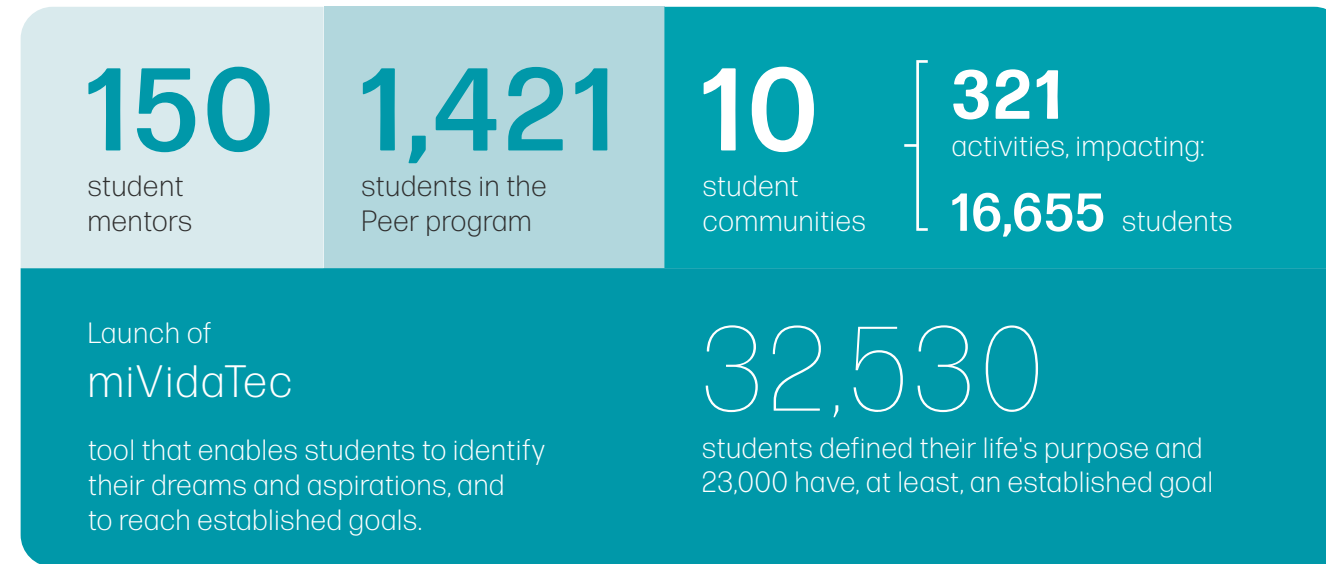
Wellness

Emotional support:

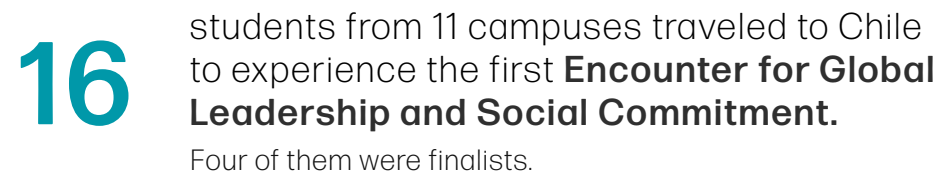
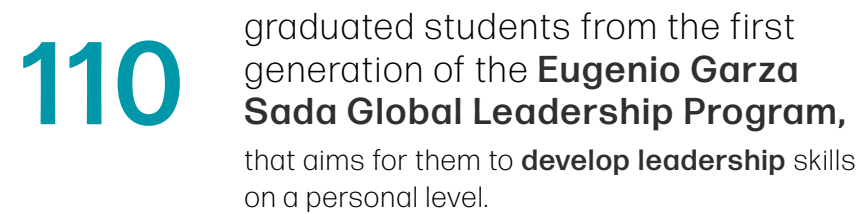


Student Mentorship

With this program we promote a positive impact to the wellbeing of students, through accompaniment for a life with purpose.




Leadership Education




Art and Culture

Through cultural classes

 **271**
subjects were
taught to:

32,239
students

Stagings

 **44**
shows presented

41,818
spectators

Tec de Monterrey's national festival to share the artistic talent of its students, VibrArt, celebrated eight festivals in four venues.

3,387 students participated

Sporting Experience

Borregos Championship

After 14 years we went back to ONEFA and we won the championship.



We have two portfolios

1 Athletics

Focused on **high-performance** athletes who compete at national and international level.

2 Rec Sports

Through sports classes and tournaments, sports are promoted as part of a comprehensive education.

In Basketball 3x3 in FISU University World Cup, in Turkey, Borregos Athletics won:

 **1** Silver  **1** Bronze

in FISU America Games

 **7** Gold  **3** Silver  **3** Bronze

in the National Universiade

 **20** Gold  **23** Silver  **24** Bronze

in the National Championship CONADEIP

 **20** Gold  **15** Silver  **13** Bronze

18,000
students participated in several sporting tournaments

2,300
sports classes impacted



41,582
students

eSports

The eSports tournaments keep generating high expectations among the student community.

We organized:

 **3** tournaments  **9,319** participants

Campus Life

This year, during the August-December semester, our campuses once again came alive with events and activities as the community returned to a 100% in-person format after the confinement due to the COVID-19 pandemic.

In 2022, **52 graduation ceremonies** were held for a total of **12,789 Undergraduate and Graduate students**.

22 infrastructure projects completed and 118,000 square meters built, renovated, and improved during this year.



Memorable Experience and Services in Campus

This year we once again **opened the doors of our campuses** to welcome our community in a responsible manner. Prevention and health care measures were maintained, such as having an updated vaccination scheme, the voluntary but highly recommended use of masks in closed spaces and according to the guidelines of the state authorities, and in case of symptoms of COVID-19, refraining from going to the campus and calling the TQueremos line.

A Memorable First Day of Classes

On the first day of school of the August-December semester, around 12,000 new Undergraduate students lived the Hi!Tec experience, organized by current students to welcome their new classmates to the Institution.



We celebrated the anniversary of our campuses

In 2022, our campuses celebrated in blue some anniversaries, such as:

- 79 years** of the Monterrey campus
- 45 years** of Tecnológico de Monterrey in Guadalajara
- 40 years** of the Toluca campus
- 35 years** of PrepaTec Eugenio Garza Lagüera
- 20 years** of the Morelia campus
- 15 years** of PrepaTec Esmeralda

Tec Residences

This year our 17 residence buildings were the home of:

1,805

students, distributed in the Monterrey, Guadalajara, Querétaro, Puebla and Chihuahua campuses

248

international students from countries like Ecuador, United States, Guatemala, Honduras, Colombia, El Salvador, among others

Also, this year, the new residence building in Querétaro opened its doors to offer more space to our students. It went from **494 beds to 654.**

TECMed Center

TecMed Center are medical units inside our Institution with the goal of providing basic health care, through the 68 units distributed in 37 facilities in different campuses.



151

health care professionals attending



+60,000

consultations attended during the year



Selectivity and Scholarships

With the objective of offering financial aid and scholarships for the talent that is part of Tecnológico de Monterrey, during the **August-December 2022 semester we helped:**

44,119

High School and Undergraduate students, who represent the

49.8%

of the total population

The proportion of outstanding students has increased in recent years; in Undergraduate, in 2015 it was 24.7% and this year it grew to 58.2%, while in High School it went from 33.7% to 48.9%.

By comparison with 2021

1.7%

of growth in the student population

96,040

High School, Undergraduate and Graduate students

Undergraduate

In Undergraduate, total enrollment **grew by +2.2%** compared to 2021. There was also an increase of more than **4.2%** in the number of applicants from external high schools, impacting the number of first-time enrolled students.

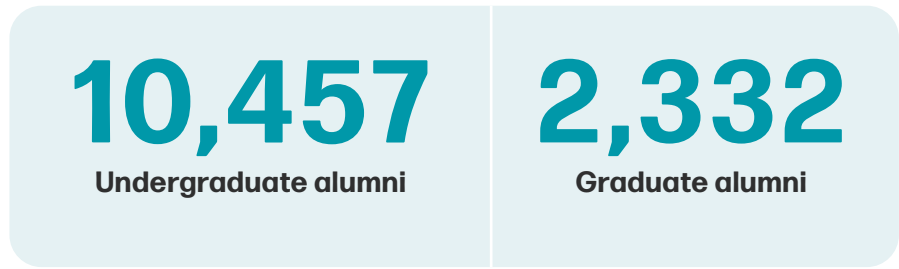
PrepaTec

The growth of first-time PrepaTec students is of **12%**, which represents the **9,870 students** that started in August-December 2022.



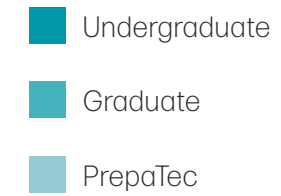
Graduations

This year **52 graduations** ceremonies were performed for a total of **12,789 Undergraduate and Graduate students.**



Graduates per school

Architecture, Art and Design	993 1
Social Sciences and Government	815 49
Humanities and Education	468 218
Engineering and Sciences	4,393 797
Medicine and Health Sciences	489 17
Business	3,299 1,172
PrepaTec	8,701



Career and Life Planning Center

We have registered a total of:

15,200 companies in the Tec's Job Board, published 13,000 vacancies for professional internships, and formal employment opportunities.

National Empleatec
employment event

500
companies

29,000
students and recent graduates

5,000
open vacancies in offer at National Empleatec



My Tec Experience

With My Tec Experience, we look to transform the services and interactions with our students and tutors into extraordinary experiences that generate a stronger emotional bond with the Institution. This year we evolved the Student Support Services to strengthen this area.

Designing and enabling student experiences

We developed and enabled academic management experiences that support, in parallel, the consolidation of our Tec21 Educational Model:

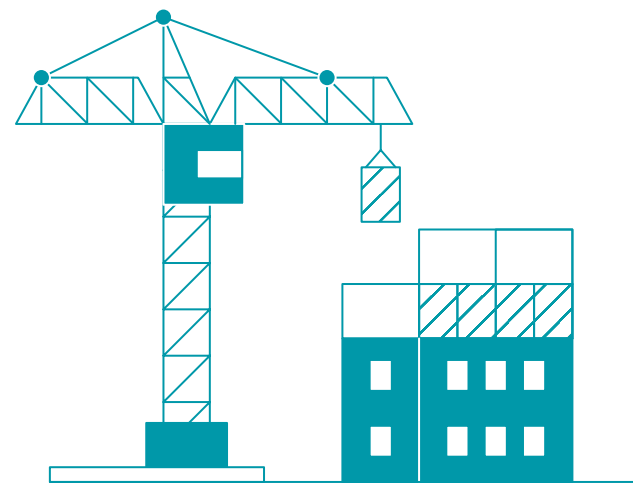
- We facilitated **student decision-making** derived from the change of stage within the curriculum.
- **Pre-registration was enabled in the IRIS enrollment system** in the Tec Semesters, to maximize efficiency between student assignments and available options.
- We enabled improvements to **simplify** and increase efficiency during the **campus transfer process**.
- **The Tec21 Graduation service** was deployed, which allows students to declare the period in which they plan to graduate so they can see their progress in fulfilling the requirements.



Infrastructure

From the Chiapas campus to the Ciudad Obregón campus, we continued to strengthen our infrastructure to provide optimal environments for learning, the arts, sports, health, and sustainability.

With **22 completed projects** and **approximately 118,000 square meters built**, renovated, and improved this year, the transformation of our campuses continues to enhance the experience of our students, faculty, and staff, as well as society in general.



22 finished projects

≈118,000 m² built, renovated, and improved

37,000 m² built

34,000 m² renovated

47,000 m² exteriors

+21,000 m² of new spaces for students

4 structurally reinforced buildings to guarantee the safety of the community

Campus Life

Education

Projects in 2022

ZONE	PROJECT	M ²
Monterrey	Faculty spaces in Classroom Building 3	650
	Turrell Skyspace in Central Park	422
	TecMed Clinic in Centrales	252
	Student Groups	550
	Sports courts in PrepaTec Eugenio Garza Sada	4,886
	Concentration spaces in the Library	450
Mexico City	TEC21 CCM: Building D1 and D2 on the Mexico City campus	9,395
	Food court in buildings E1 and E2 on the Mexico City campus	2,400
	Laboratories in building E2 on the Mexico City campus	242
	Parking lot on the Mexico City campus	42,336
	South Building on the Mexico City campus	2,328
	Faculty spaces on the Santa Fe campus	1,200
Central Southern	Transmissions on the Mexico City campus	3,814
	Connecting structures at the Puebla campus	975
	Student Center at Puebla campus	14,699
	Roofed structures at Cuernavaca campus	12,340
	Attention, Attraction, and Scholarships Center at Puebla campus	205
	Classroom Building 2 structure at Puebla campus	6,158
	Residences, Phase 1, in the Querétaro campus	13,653
Faculty spaces at the Cuernavaca campus	500	
Development	Enrollment Spaces at the Ciudad Obregón campus	259
Sorteos Tec	House 213 from Sorteos Tec by Elemental, in Monterrey	630
TOTAL		118,344

As an educational institution, we are aware that optimal spaces promote learning, student experience, and connection with the community inside and outside Tecnológico de Monterrey.

The transformation of our campuses in 2022 **avored spaces for learning** such as classrooms, laboratories, and library spaces; promoted the **memorable experience** of our students in **LiFE activities**, with spaces for student groups, art and culture, **as well as sports**; created recreational and wellness spaces, such as cafeterias, TecMed Centers, spaces dedicated to professors and Admissions, and reinforced spaces to ensure the safety of the community.

Due to our commitment to be an **Institution of society and for society**, the house #213 of the 75th anniversary of Sorteos Tec was inaugurated. It is part of the "signature houses" and, on this occasion, the architect Alejandro Aravena of the Chilean architectural firm Elemental gave life, through design and architecture, to the Sorteos Tec house, which is part of our philanthropic mission.

We opened a new Residence Hall at the Querétaro campus and the building E2 Off-grid in the Monterrey campus.

Our Campuses

In addition to the achievements and projects reflected in sections of this report such as Entrepreneurship, Infrastructure, LiFE, Enrollment, Schools, PrepaTec, and Faculty, we dedicate this space to highlight some other advances and initiatives of our campuses,

which are grouped into Regions. In them, the culture of Tecnológico de Monterrey, which connects with its communities in academic, formative, and experiential areas, is alive.

Central Southern Region

Cuernavaca Campus

The IKTAN Roving team, integrated by students from the School of Engineering and Sciences, won first place in the Overall Winner and the Ingenuity Award in the NASA Human Exploration Rover Challenge competition. It is the first Mexican team to win first place in the international university category in this U.S. space agency design competition.

Hidalgo Campus

A collaboration with the **MIT Center for Transportation & Logistics on the Genesys project**, which contributes to the survival and growth of small companies, was established.

Puebla Campus

The Center for Intelligent Sustainable Logistics was inaugurated, comprising 5 research professors, 4 international graduate students, and with the participation of more than 1,000 undergraduate students from the Schools of Business, and Engineering and Sciences; to generate greater partnerships with companies, government projects and alliances with universities in the region.

In addition, Janet Gutiérrez, a research professor at the School of Engineering and Sciences, won the "Badge" category, the highest award of the Rómulo Garza Prize, making her the second woman to receive this recognition.

Querétaro Campus

To strengthen internationalization, new Residence halls were built, quadrupling the number of beds available to nearly 700.

In addition to the institutional commitment of inclusion, social impact, and sustainability, the **Pabellón Tec** was inaugurated, an inclusive and sustainable space that seeks to **flourish in community**, within the framework of respect for human dignity.

The entrance to the School of Medicine and Health Sciences was inaugurated. And, in conjunction with the government of the State, the 3rd INCqro edition was held, with an attendance of more than 5,000 people.

San Luis Potosí Campus

The robotics team from PrepaTec in San Luis Potosí, LamBot 3478, reached the quarterfinals at the FIRST World Championship in April 2022. It placed fifth among 75 teams from around the world in the Hopper division.

Tampico Campus

Academic experiences were carried out, such as the summer of Logistics Vision and Innovation, with ALPASA, API, ASIPONA, GT+Logistics, among others, as education partners, as well as a series of conferences in partnership with CONAGUA, and visits to the Laguna System.

Toluca Campus

Professor Alfredo Méndez was recognized with the **Red Dot Design Award**, one of the most prestigious international design awards. He stood out in the Sustainability category for his project "Oysterland", an eco-friendly basket with Internet of Things technology that reuses sea garbage and turns it into a useful tool for oyster farmers.

Mexico City Region

Mexico City Campus

Industrial and Systems Engineering students represented the Institution and Mexico at the **MIT SCALE Latin America Conference 2022**. Their project focuses on helping micro-enterprises to cope with the consequences of the pandemic.

The Clinical Simulation Center was inaugurated so that students from the School of Medicine and Health Sciences have the opportunity to apply their knowledge with robots.

Jonathan Magaña, professor and researcher, received the **Jorge Rosenkranz Medical Research Award**, in the biotechnology category, for his project that seeks to reverse the ataxia disease.

Amelia Isabel Espinosa Beltrán qualified for the **World Taekwondo Championship** and won the **gold medal** in the First National Women's Championship in Querétaro.

The women's beach team was ranked first in the National Universiade.

The athletics team won 4 gold, 4 silver, and 6 bronze medals in the CONADEIP National Championship.

Estado de México Campus

Ivanna Naomi Millán Flores, a Biotechnology Engineering student, was selected for **a stay at NASA** for her project that studies the effects of the absence of gravity on cancer cells. She was also part of the list of the 100 most powerful women in Mexico, published by Forbes Mexico.

Architecture students **won** the international **Next Top Metaverse Build** competition, which seeks to promote entrepreneurs and builders in the metaverse.

Andrea Guevara, Aurora Antonio, and Brenda García, professors from the School of Engineering and Sciences, were among the **winners** in the annual call of the **Consejo Mexiquense de Ciencia y Tecnología (COMECyT)**, which promotes research funding for women scientists.

Santa Fe Campus

Diana Flores Arenas, a student of Marketing and Communications, is the **world champion of World Game 2022**, in Alabama. A multisport event in which athletes from all over the world participate and whose competitions are sports that do not participate in the Olympic Games.

Andrea Heinze and Pedro Ceballos won the **bronze medal and fifth place**, respectively, at the **Goyang 2022 World Taekwondo Poomsae Championships**, in South Korea.

And the youth American football team **won the ONEFA League's Green Conference Championship**.



Diana Flores, student of the Santa Fe Campus.

Development Region

Tec Experience: intense winter and summer 2022

The Tec Experiences are national mobility programs, after identifying the vocation of various regions of the country. In these programs, 412 students had the opportunity to live a unique experiential learning experience.

They worked on real projects with more than 50 education partners in Chiapas, with social innovation projects at the Center for Social Innovation; in Zacatecas, with creative industries projects at the Center for Cultural and Creative Industries; in Ciudad Obregón, with food industry projects at the Food Innovation Center; in Irapuato, with Conscious Bio-Business projects; and in Ciudad Juárez, with binational activity projects on the U.S.-Mexico border.

In addition, the Laguna campus is involved in technology and smart business projects in the wine industry, and the Tampico campus in logistics innovation.

Signing of partnership between El Gran Bajío and Tecnológico de Monterrey

In order to strengthen the link between companies and higher education, El Gran Bajío signed a collaboration agreement with our Institution, initially with the seven educational campuses located in the states that are part of the Bajío corridor. It will



Center for Social Innovation

be the Irapuato campus that will set the tone for joint initiatives.

Agreements with SEISA Medical, SteviaSON and PolyBion for professional internships

The biomedical company SEISA Medical signed an agreement with the Institution for the student community to develop real projects during professional internships. Among the results, two of our students worked on a five-week project, in which they helped design a device that repairs torn veins. Agreements were also made with training partners Fertilizantes Tepeyac, Sales del Valle (SteviaSON), and PolyBion.

Launch of full academic programs at Ciudad Juárez campus

This year we launched four full academic programs, two from the School of Engineering and Sciences and two of the School of Business.

Tec de Monterrey's Center for Social Innovation, at San Cristóbal de las Casas, Chiapas

We acquired the property occupied by the Tec de Monterrey Center for Social Innovation in San Cristóbal de las Casas, Chiapas. This center will contribute to the formation of a social innovation ecosystem for research, and generation and validation of innovative solutions to problems faced by marginalized communities in Mexico.

Monterrey Region

Two teams from PrepaTec Monterrey won their pass to the world competition FIRST: "Botbusters" from PrepaTec Eugenio Garza Sada and "Overture" from PrepaTec Cumbres.

The Central Park, located in the heart of distritotec, **received the Obra CEMEX Award 2022** in the category of Special Award - Social Value.

Forma Foods, a company created by professors **Mario Moisés Álvarez and Grissel Trujillo** from the School of Engineering and Sciences, and promoted by the Sayabio investment fund, **was inaugurated**.

The **FEMSA Biotechnology Center** of the School of Engineering and Sciences **celebrated its 15th anniversary** and since its creation, it has had more than 100 researchers, registered 35 patents, and published more than 2,000 scientific articles. As part of the anniversary, the International Biotechnology Congress was held with the participation of speakers from Colombia, Denmark, Spain, the United States, and Mexico.

Our students stood out in the sports field. In CONADEIP, PrepaTec Monterrey won first place nationally in women's and men's junior B soccer, as well as in women's and men's junior B swimming. Undergraduate students won first place nationally in soccer, swimming, athletics, and indoor soccer for women and men, as well as in basketball and

taekwondo for men and women, and in tennis in women's doubles. In the National Universiade, Borregos Monterrey won first place in women's and men's soccer, women's volleyball, and women's doubles tennis. In ONEFA, PrepaTec won the national championship; and in 14 grandes ONEFA conference, they won first place in groups.

In Arts and Culture, the Monterrey Ballet and the Tec Symphony performed at the celebration of the orchestra's 35th anniversary; the Verbena de Día de los Muertos was held; the first Interuniversity Dance Encounter took place; and the Tec Symphony participated in the closing of the Santa Lucia Festival.

Students from PrepaTec in Monterrey collected **more than 10,200 food items** by participating in the Food Bank collection and helped to assemble food pantries, joining the initiative **Hambre Cero Nuevo León**, which seeks to eradicate extreme food poverty and food waste in the state.

Laguna Campus

The Parras Summer Experience on technology and smart business was offered. Twenty two local and from other campus students and professors participated. Educational units were taught, linked to education partners, such as Vinícola Parvada, Parras City Hall, and local artisans, to whom students delivered more than 15 projects.

Saltillo Campus

Campus Saltillo and the **Automotive Industry Cluster of Coahuila** signed a collaboration agreement for the execution of projects and initiatives that benefit the community of students and professors, as well as the different companies that are part of the cluster.



Western Region

Aguascalientes Campus

Students from the School of Engineering and Science created an electric car prototype and were recognized internationally in the Shell **Eco-Marathon competition**. **They won fourth place** worldwide.

Chihuahua Campus

The **iGEM team**, made up of 11 students from the School of Engineering and Science, **won the gold medal in the International Genetically Engineered Machine competition** held in Paris, France. Their project Agrocapsi is a bio-fungicide that protects chili bell pepper plants from wilting prematurely.

Kathya Aguilar, a PrepaTec Chihuahua student, **won first place in the Yale Young Global Scholars** program with her project Green Again, which seeks to raise awareness of environmental care and control of the ecological footprint.

Emanuele Giorgi, Mauricio Flores, and Virginia Aveces, professors from the Schools of Architecture, Art and Design, and Humanities and Education, presented the book **Design for Vulnerable Communities**, the result of research related to the challenges of designing urban architecture for vulnerable communities. Their work is part of an international research network between Mexico, Italy, and China.

Guadalajara Campus

Eighteen students from the Industrial Design major presented their jewelry collection at the Milano

Jewelry Week exhibition in Italy. Five students from the School of Business reached the final stage of the CFA Institute Research Challenge in New York. As part of the International Book Fair in Monterrey, student Renata Uribe Sánchez won the essay contest in honor of Elena Poniatowska.

The Music Production Laboratory was remodeled for students of the School of Humanities and Education. Professor Daniel Jacobo Velázquez won the Research Award for Young Scientists 2022 in the area of natural sciences, for his studies on the elucidation of physiological and molecular mechanisms that induce the generation of secondary metabolites in fruits and vegetables.

León Campus

The School of Social Sciences and Government participated in the initiative **Aprendizaje para todos**, in Guanajuato, that seeks to help **over 2,000 high school students**, who because of the pandemic, had their learning process affected. In this edition 206 tutors from 6 campuses participated.

Morelia Campus

As part of the celebration of the 20th anniversary, the **first book festival** was conducted, in which 700 people participated in various artistic and cultural activities.

Moreover, **Sound Tec** led an academic event designed in collaboration between the Schools of Humanities and Education, Architecture, Art and Design, and Engineering and Science to teach three blocks at a regional level, with the Morelia Music Festival as a formative partner. It seeks to generate through art, sculptures, performances and sound installations, an inclusive and intuitive space for everyone to create sounds without the need for prior training.

Sinaloa Campus

Professor **Ernesto Diezmartínez** will participate as one of the **103 new international voters** at the **Golden Globes**, being one of the four Mexican participants. Professor **Ana Valeria Calvo** presented her research on artificial intelligence in the omnichannel experience at the Colloquium on European Research in Retailing: The New Age of Retailing, in Croatia.

Sonora Norte Campus

The play "En 15 minutos" toured **five campuses** as part of the "**Teatro por la Dignidad Humana**" initiative, which seeks to open the conversation about femicide. The cast is made up of high school and undergraduate students. Fátima Córdova, Emma Almada, Guadalupe Peñuñuri, and Diana Urías, professors at the School of Architecture, Art and Design, received **the award from the Federation of Colleges of Architects of the Mexican Republic**.

2.0 Tecnológico de Monterrey

Research

TRANSCENDENCE

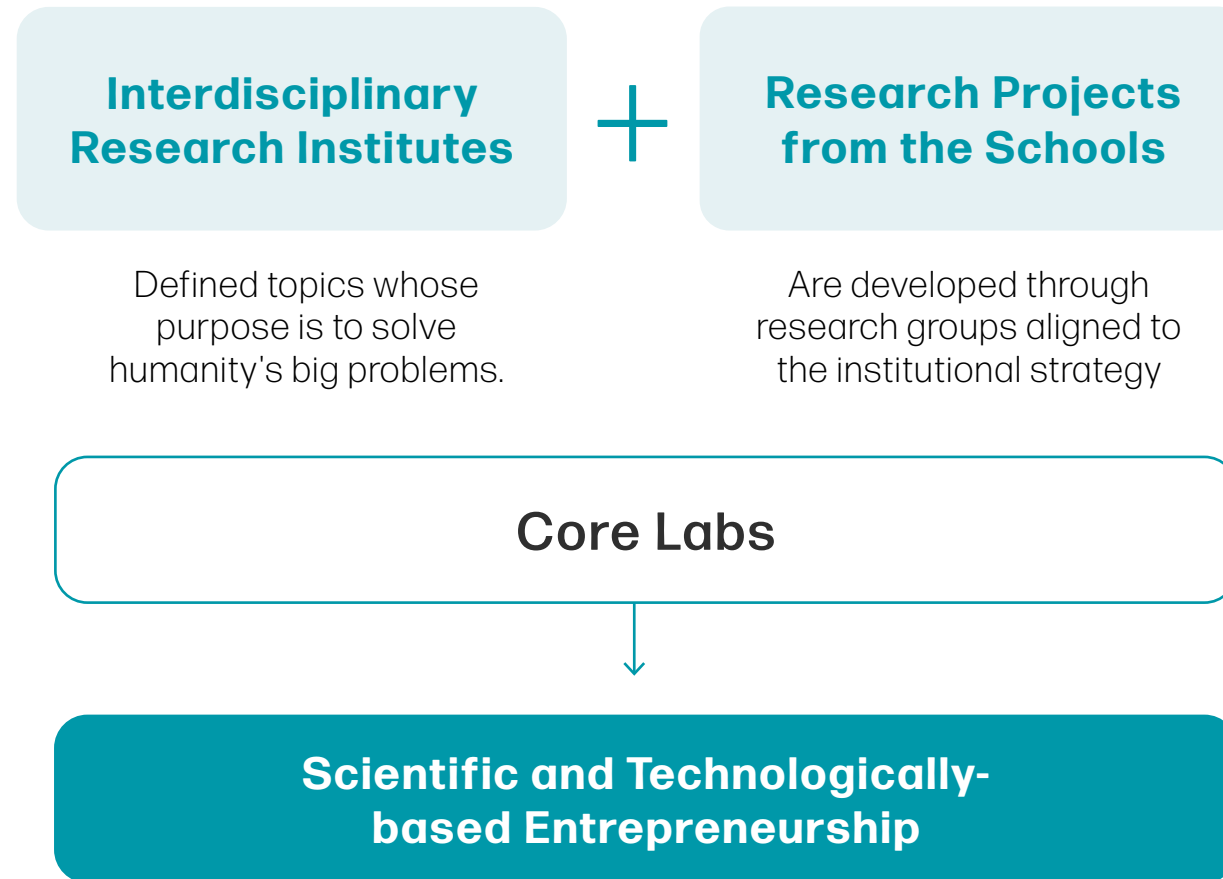


Our goal is that the research conducted at the Tecnológico de Monterrey results in a practical application through ventures that generate solutions to relevant problems that our country and world face.

After the pandemic it was clear that research is a key factor for the development of society.

Tecnológico de Monterrey's Research Vision

We work so Tec's research results in the practical application through ventures that generate solutions to relevant problems that our country and world face.



Interdisciplinary Research Institutes

Defined topics whose purpose is to solve humanity's big problems.

Research Projects from the Schools

Are developed through research groups aligned to the institutional strategy

Core Labs

Scientific and Technologically-based Entrepreneurship

107

research and technological development projects funded by external agents at the Schools

6

projects financed with external funds at the 3 Interdisciplinary Institutes

2,188

publications a year in Scopus

Interdisciplinary Research Institutes

In 2022 it's notable the launch of the Institute for Obesity Research and the Institute of Advances Materials for Sustainable Manufacturing, as well as the Institute for the Future of Education.

The 52nd Research and Development Congress (CID, in Spanish) gathered researchers from all campuses with experts in different fields of science.

5,160
attendees

711
participating
businesses/ institutions



The Institute for Obesity Research

Leader - Dr. Marco Rito

The Institute for Obesity Research seeks through research and innovation to address solutions to the problem of obesity in Mexico and Latin America. It was officially launched in February during the **International Congress on Obesity Research** and has 25 research professors and a Scientific Advisory Committee.

Research centralized in five units:



Healthy Foods



Integrative Biology



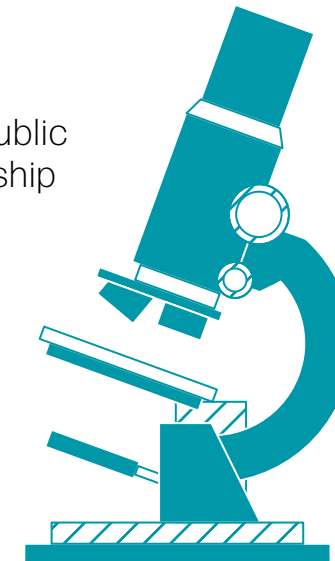
Devices and Bio-process



Politics and Public Entrepreneurship



Experimental Medicine and Advanced Therapies



The Institute for the Future of Education

Leader - Dr. Michael Fung

Looks to **improve people's lives by transforming higher education** and lifelong learning. We launched four research units:

- Competency-based education,
- Educational technology,
- Engaging and motivating learning models, and
- Policy, governance, and systems.

The IFE Observatory, that hopes to impact the world's academic community by offering open content about education to their users, was recognized by the Open Educational Global with **the award for best Open Curation/Repository 2021**.

The Innovation Hub Europe started operations, in **Comillas, España**.

267

professors' papers were accepted for publication in different journals

153

high quality proposals received as part of the 3rd edition of TPrize

24

publications indexed to Scopus

The IX International Congress of Educational Innovation, CIIE 2023, "The Future of Education", was organized.

11 research projects were financed through IFE

The **IX International Congress of Educational Innovation, CIIE 2023, "The Future of Education"**, was organized.

4,960

attendees

36

countries

561

institutions

+350

activities

The Institute of Advanced Materials for Sustainable Manufacturing

Leader - Dr. Arturo Molina

We conducted scientific and applied research, developed, and innovated technologies to generate **new materials** and design **sustainable manufacturing processes**. It was launched in August during the First International Congress on Advanced Materials Research and seeks to solve two major challenges:

01

Boosting the **development of advanced materials** for different applications that generate net zero emissions and zero carbon footprint.

02

Creating and **developing high-tech manufacturing processes** to rapidly accelerate and expand the use of advanced materials that achieve minimal impact on the environment.

Signing of agreement with Southwest Research Institute (SWRI).

The solutions that the Institute generates are conducted with the following approaches:

- Manufacturing processes for advanced materials.
- Enabling technologies for the development of advanced materials.
- Development of bio-productive systems for sustainable manufacturing.
- Competitive intelligence and public policies for sustainable manufacturing.
- Accelerated development of intelligent materials and lightweight materials.
- Reduction, use, and mitigation of CO₂.



Research in the Schools

The National Schools make an important contribution to the research vision of Tecnológico de Monterrey by promoting disciplinary research, contributing to the growth and development of existing institutes, helping to attract funding, and promoting the culture and experience of high-performance research communities.

They also manage the connection between research and the scientific graduate programs and establish the relationship between research and the Tec21 Model. In addition, from there they support the research professors of the **32 research groups formalized in 2022**, promote the intellectual vitality and disciplinary update of the faculty in general, attract external researcher talent, and create collaborative networks with strategic partners.

The National Schools are spaces for the creation of new transdisciplinary research opportunities and potential new institutes.

32 research groups

School of Architecture and Design

- Territorial and sustainable development
- Advanced design processes for sustainable transformation
- Critical theory of art and design

School of Sciences and Government

- Legal systems innovation
- Economies of the future
- Democracy and global affairs
- Government and public entrepreneurship

School of Humanities and Education

- Educational innovation
- Digital humanities
- Humanities for sustainable development

School of Business

- Leadership and effective organizations
- Development of conscious businesses
- Impactful entrepreneurship and innovation
- Organizational strategy and industries transformation

School of Medicine and Health Sciences

- Diagnostic and therapeutic innovation in chronic degenerative diseases
- Advanced therapies in visual sciences
- Global health and emerging diseases
- Research in breast cancer
- Developmental biology and comprehensive well-being in childhood
- Neurological sciences and neurorestoration

School of Engineering and Sciences

- Molecular and systems bioengineering
- Emerging food technologies and nutraceuticals
- Advanced manufacturing
- Nanodevices
- Photonics and quantum systems
- Advanced artificial intelligence
- Smart supply chain and logistics
- Innovation in smart digital technologies and infrastructure
- Cyber-physical systems
- Water science and technology
- Energy conversion, storage and management
- Circular economy, decarbonization and climate change

Core Labs

These are laboratories with specialized infrastructure and equipment, full time personnel, and operation protocols that **provide services to research projects of Institutes and National Schools**, startups, and industry.

Biotherium

- Storage, care, and maintenance of preclinical models used in research.
- Performs invasive and non-invasive procedures on preclinical models.

Genomics

- Genome, exome, single cell and mitochondrial DNA sequencing.
- Metagenomics.

Data science

- Descriptive, causal, predictive, and prescriptive analysis.
- Data processing, cleaning, storage, and visualization.

Scientific and Technologically-based Entrepreneurship

Tec de Monterrey created a model of science and technologically-based entrepreneurship that consists of the development of a platform to **catalyze the formation of businesses**, through the identification and selection of projects, development of first trials, construction of the business model, and commercialization.

Some of the projects in the technology scaling program are:

01

JASEDA | sustainable solutions

This company is dedicated to the design and **production of dietary supplements** from black bean extract.

03

Laiboyan Technology

Remote laboratory system for learning about electrical, electronic, and control circuits as well as its implementation method.

02

Forma Foods | Meat Sústitutes

Company focused in the **cellular agriculture industry**, which seeks to offer a meat product 100% developed in vitro.

04

Global Nano Additives

Company that manufactures **lubricating oil** for automotive and industrial applications with decorated graphene additives.

Collaborative Research

At Tecnológico de Monterrey we seek to promote the construction of a new paradigm of knowledge-based development through alliances with national and international institutions, thus detonating a collaborative culture of entrepreneurship and research.

With our consortia strategy, we expand our research, technology transfer, and entrepreneurship capabilities, and complement them with the capabilities of leading universities and organizations inside and outside Mexico to solve societal challenges more quickly and effectively.

In 2022, we consolidated:

- Consortium TEC - UNAM (Universidad Nacional Autónoma de México)
- Consortium TEC - UANL (Universidad Autónoma de Nuevo León)
- Alliance TEC-FUNSALUD



Consortium Tec-UANL

With the Universidad Autónoma de Nuevo León, we work together to **provide solutions** to companies and society in the areas of **health, education, Industry 4.0, and sustainability.**

In 2022, **the collaboration agreement was signed and the work teams were defined.** The calls for proposals that are currently being designed are:

- Nuevo León Water Challenge
- Call for new research teams Tec + UANL



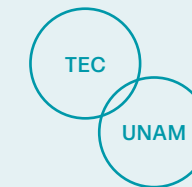
Consortium Tec-UNAM

With the Consortium for Research, Technology Transfer, and Entrepreneurship UNAM-TEC we seek to boost plans with global vision and impact that promote progress, advancement, and the use of scientific knowledge, where research groups collaborate, called Binomios UNAM-TEC.

- 5** Project developed from the "Scientific Entrepreneurship and Knowledge Transfer and Technology Modality 1: Mature Technologies UNAM-TEC Program".
- 1** Project in progress, winner of the Femsa Imbera Challenge, under the topic of "Technologies to incorporate models of circularity in polyurethane foam."
- 6** Projects in development from the "Scientific Entrepreneurship and Knowledge Transfer, and Technology - Modality 2: NEW BINOMIOS UNAM-TEC."
- 1** Project in progress, winner of the Cemex Challenge: "Future in Action: Innovative uses of Industrial CO2."

6 research projects in development as part of the Consortium TEC - UNAM

Research challenges with FEMSA IMBERA and CEMEX were launched.



Alliance TEC- FUNSALUD

Tecnológico de Monterrey and Fundación Mexicana para la Salud (FUNSALUD) **signed Alianza Emprende Salud**, an agreement to join forces to promote and accelerate research, innovation, technology transfer, and scientific entrepreneurship in Mexico.

Through Alianza Emprende Salud, the aim is to **promote global technological developments** that help to close the gap in access to healthcare, through the generation of innovative products, services, and business models to strengthen the healthcare sector at a national level.

In August 23rd, 2022, the collaboration agreement between FUNSALUD and Tecnológico de Monterrey was signed, and the work groups from both institutions were defined, which will be responsible for the call for proposals.



2.0 Tecnológico de Monterrey

Outreach

with Organizations and Society



TRANSCENDENCE

Initiatives with Impact in Society

An institution is only as strong as the community in which it operates. With this premise, and after the events of the last couple of years, in 2022 special emphasis was placed on actions that generate partnerships between organizations and society, creating a positive impact on them.

Strengthening the spirit of solidarity became more important than ever, because after the pandemic, we learned that it is one of the elements that most contributes to improving our surroundings. Thus, during this year we highlighted the work of those who

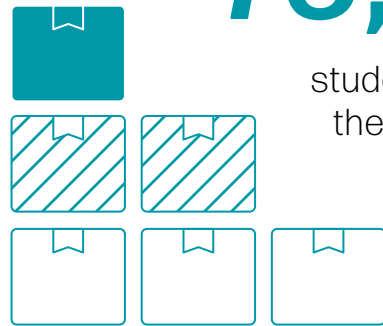
participated in Tec Volunteering programs and initiatives, the generosity of our community, which is evident in their donations, and we celebrated the initiatives and people who work to transform our environment.

+3 million

hours of social service

73,392

students carried out their social service



Prepanet

Prepanet provides education for youths and adults that have no access to this level of education because of economic, social, ethnic, religious, and physical mobility factors.

It was designed to help diminish the gaps in inequality and educational lag in Mexico.

In 2022:

2,104 students enrolled

445 graduated students

NEW ENROLLMENTS

1,130 < **1,328**
STUDENTS IN 2021 STUDENTS IN 2022

+37% more students graduated than in 2021

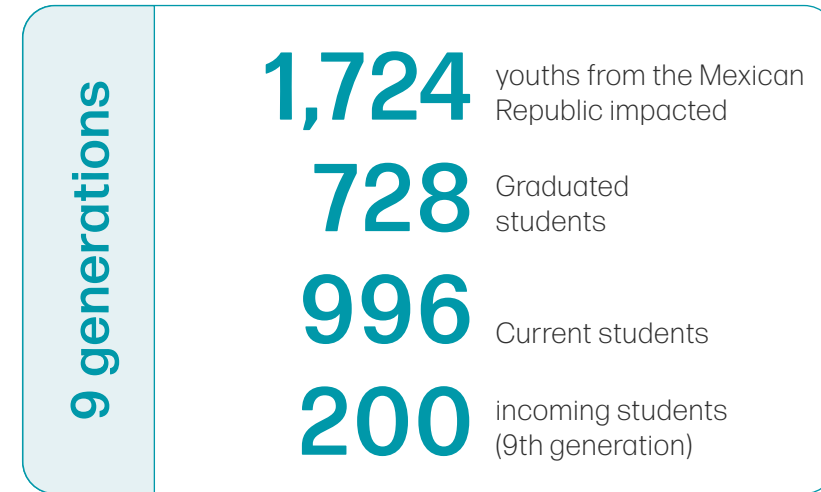
+18% of enrollment growth



Líderes del Mañana

Líderes del Mañana is a program for personal transformation, inclusion, impact, and social mobility for the development of transformational leaders, focused on youths with outstanding talent who need total financial aid to study a professional career at Tecnológico de Monterrey.

The *Líderes del Mañana* program had groundbreaking results this year and, to benefit students in other countries, it started *Líderes del Mañana LATAM*. The first generation is comprised by students from Central America.



The fund for *Líderes del Mañana* grew by **3.3 billion pesos**

Institutional Volunteering

Tec Volunteering was created to develop a spirit of solidarity and a commitment to address the problems faced by the public education sector.

This program operates in all the campuses of Tecnológico de Monterrey, TecSalud, Tecmilenio, and Sorteos Tec.

Initiatives such as Volunteer Day and Sponsor a School served to improve

the physical school spaces of more than **26,600 students in 123 schools**. The ***Voluntariado por la Educación de México*** program, an alliance between Arizona State University (ASU) and Tec de Monterrey, bore fruit and in 2022 had an impact on public schools in 20 states across the country that received training in innovative methodologies in technology and adaptive learning.



Social Service with Sense of Change


This year, **1,271 initiatives** were published in the **Social Service initiatives platform**, which included new experiences such as: Social Immersion with General Education subjects and Concentrations with Humanistic Outlook.

The participation of **73,392 students** resulted in **more than 3,327,726 hours of social service**.

This year **470 new organizations** registered as **Education Partners**, expanding the offer of initiatives for **Social Service**.

+3.3 million
hours of social service performed in regular and intensive school period during the year

Examples of High Social Impact Initiatives

 Learning for Everyone

Online courses and academic tutoring aimed to reduce the educational gap of high school students who have fallen behind in their studies.

2,284 Tec students help **8,143 students** from public high school education.

 Virtual Center for Learning

An educational platform with courses and digital resources available to children, teenagers, families, and underprivileged communities.

Over **41,000 people** were benefited with over **150 courses**, **215 educational materials**, and **500 conferences** and online videos.

 Center for Social Innovation in Chiapas

Courses and technological tools that enable the community to develop digital marketing strategies.

300 women from **20 artisan groups** were trained in digital marketing to help their businesses, this has potential positive impact on 15,000 people from their communities.

Philanthropy for Growth

Continuing with the mission of transforming lives and contributing to society were clear lessons learned after the health emergency of the last two years. With this in mind, this year, a total of 695 million pesos were raised from more than 14,000 donors.

Philanthropy networks totaled 2,598 donors. New networks were activated in Juárez and Guadalajara, each of which got 2 undergraduate scholarships.

The Borregos Philanthropy Network started operations, which will benefit students who participate as Borrego athletes with complementary scholarships.

Donations to transform society

695

Million pesos procured

+14,000

Donors

5,723

EXATECs donate and participate in philanthropy projects



Intervening the Future: Tec's Philanthropic Mission

With the same goal of promoting inspiring projects for social transformation and strengthening Tecnológico de Monterrey's mission to transform lives and contribute to society, the first comprehensive campaign was presented in February during the **2022 Annual Board of Trustees Meeting: Intervening the Future**.

Three strategic axes guide the projects aligned with the initiatives that are promoted to transform and impact the community.

3 strategic axes:

- 1 Extraordinary academic talent and social mobility:** represents the scholarships awarded, as well as the development of impact faculty, which seeks to strengthen the formative and academic experience of the student community.
- 2 Innovation, research, and entrepreneurship:** includes projects aligned with health, high-impact Research Centers, as well as initiatives promoted by the Eugenio Garza Lagüera Entrepreneurship Institute.
- 3 Environment and community:** focused on strengthening the space in which students develop, as well as their surroundings.

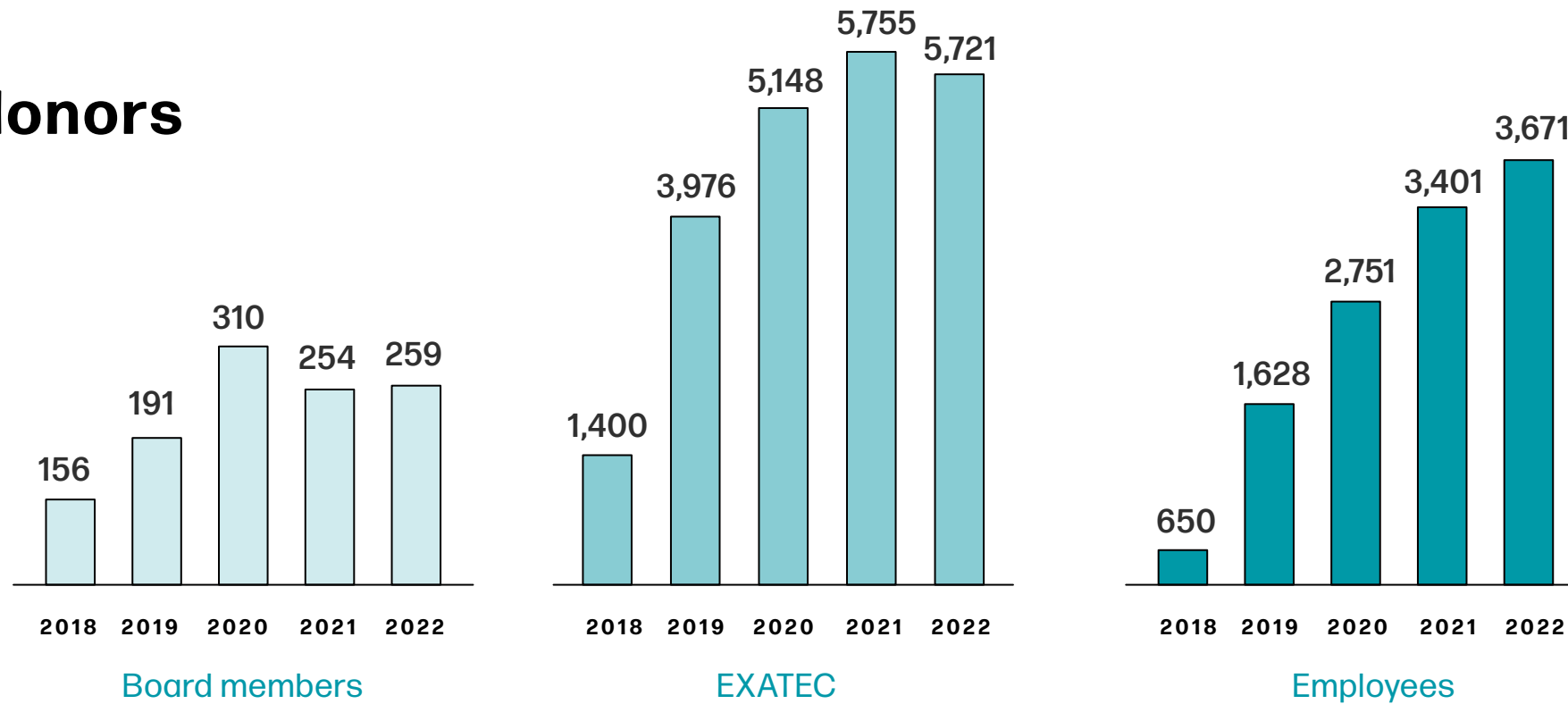


Two new endowments were formed corresponding to the Center for Conscious Companies and the Institute for Obesity Research.

Likewise, a historic donation was made that represents a legacy, which will be made tangible with the Innovation and Entrepreneurship Hub at Monterrey Campus within distritotec.



Total donors



Outreach with Organizations and Society

Awards that Boost Society's Transformation

Celebrating those who are driving the transformation of society has never been more important than after overcoming the challenges we have faced in the last couple of years.

Thus, during this year, with the Institutional Awards we recognize projects, ranging from social entrepreneurship and student social innovation to research and science research, as well as biology and education projects.



 Eugenio Garza Sada Award 2022

Recognize the work of people and institutions committed with philanthropy, human fraternity, and scientific knowledge.

Winners of the Eugenio Garza Sada Award 2022

Humanist Business Leadership:
Salvador Alcalá Alba.

Social Entrepreneurship:
Alternare, A. C.

Student Social Innovation:
De Raíz.



 Luis Elizondo Award to Humanistic Outlook Tecnológico de Monterrey

It is awarded to those whose actions strengthen, promote, and recognize humanistic leadership, as well as social entrepreneurship.

Luis Elizondo Award to Humanistic Outlook Tecnológico de Monterrey 2022 winners

Scientific and Technological:
Doctores Susana López Charretón and Carlos Federico Arias Ortiz.

Humanitarian: Patronato Pro Zona Mazahua, A.C.

Humanitarian for Student Groups: Share+.



🏆 Rómulo Garza Research and Innovation Award

It is awarded to people who stimulate and promote research within the academic and student communities at Tecnológico de Monterrey.

The winners of the Rómulo Garza 2022 Award are

Doctor Janeth Alejandra Gutiérrez Uribe
Winner of the "Insignia Award."

Doctor Jorge Rodríguez Ruíz
Winner of the category "Scientific Articles with High Impact Factor in Indexed Journals."

Doctor Sergio Othón Serna Saldívar
Winner in the category "Published Books."



Acknowledgments in the categories of research projects by students

PrepaTec

Máni Ulrik Nielsen from PrepaTec
Esmeralda, Estado de Mexico Campus

Undergraduate

Michaela Nicole Prado Larrea and Cristóbal Riojas Javelly from the Monterrey Campus.
Rodrigo Ruz Cuen from the Monterrey Campus.

Graduate

Diego Díaz Vázquez from the Guadalajara Campus.



Sorteos Tec

2022: 75 Years of Sharing the Fortune of Fulfilling Dreams

For **Sorteos Tec**, 2022 marked its **75th Anniversary** and a year of accomplished goals. It awarded **274,785 prizes with a total value of \$605,680,877 million pesos** and for the first time the **First Prize of the 213th Traditional Sorteo Tec - La Casa del Tec** was designed by a Pritzker Prize winner: the Chilean firm ELEMENTAL led by architect Alejandro Aravena.

During this period, **68 raffles** were held, of which 57 reported total sales. This year's novelties include advice and support to Fundación Teletón for the launch of its first digital sweepstakes; a temporary sweepstakes called Vamos a

Qatar in collaboration with Fundación Televisa, and the market launch of a new raffle called Sorteo Tec Casa Hábitat, which offers the consumer a multifunctional, intelligent and sustainable house as the first prize. With the incorporation of this sweepstakes, the Sorteos Tec portfolio has grown to 10 products.

This year, the sale of digital tickets represented **41% of total revenues**. Similarly, the number of **volunteer employees** increased from **130,871 to 150,521**. Their support was fundamental in meeting Sorteos Tec's philanthropic objectives.

We concluded the year 2022 with an increment of **99.8%** of the remaining balance in comparison with the previous year (**\$257 vs 129 million pesos**), destined in its totality to fund **Tec de Monterrey's Líderes del Mañana program**.

75 aniversario

of Sorteos Tec

274,785

prizes delivered

68 raffles

carried out, from which **57 were sold out**



distritotec

The **distritotec initiative** promotes **regeneration in an urban community** that recognizes the capacity to innovate and the quality of life, as well as the way in which these can mutually nurture each other. Since its public presentation in 2014, driven by the Tec de Monterrey, it collaborates with citizens, academia, companies, and governments **in an area of more than 450 hectares and 24 neighborhoods**, south

of Monterrey. It acts on four axes: to generate **meeting spaces**; to promote an **innovative community**; to promote a **sustainable environment**; and to give life to the district through **coexistence and art**. It seeks to become an open innovation ecosystem that attracts the best talent and where people live better.

This year saw the beginning of phase two of distritotec, which is a decisive step towards promoting a hub of **innovation and entrepreneurship**, focused on generating an environment of research and innovation that attracts talent, entrepreneurship, as well as partnerships with other institutions and companies.

Evolution of distritotec in 2022

- Board of neighbors of distritotec recognized by the Department of Citizen Participation of the State of Nuevo León as one of the **10 finalist initiatives in the Best Practices of Citizen Participation call**.
- **The work of art Skyspace:** Espíritu de Luz, by artist James Turrel was inaugurated. It's dedicated to the memory of Mr. Eugenio Garza Sada and Mr. Eugenio Garza Lagüera.
- The Comprehensive Urban Plan La Campana was created.
- The idea of a **Distrito de Innovación Tlalpan** is in an exploration stage.

Campana-Altamira Initiative

In 2022 this initiative was consolidated with the goal of improving the quality of life in this area, **among the accomplishments we highlight:**

501 PROGRAMS IMPLEMENTED

99 PROJECTS CARRIED OUT AMONG ALL THE INSTITUTIONS

271 ACADEMIC SOCIAL SERVICE AND VOLUNTEERING PROJECTS CARRIED OUT.

E2 Off-Grid Parking Lot

With the implementation and integration of rainwater harvesting, humidity condensation, and wastewater treatment systems, the E2 building at the Monterrey campus became **the first building** with the potential to cover its own water demand, making it a **"hydro-sustainable" space**.

Expedition

The construction of Expedition started, a new space that will detonate **collaboration, entrepreneurship, and creativity in the community**. Located at the Monterrey campus, it will encourage to look for alternative **solutions to global challenges**, like: feasible life on the planet in 100 years, innovative education for a better society, and better quality of life.

It will also host the three Interdisciplinary Research Institutes.

2.0 Tecnológico de Monterrey

Alumni

TRANSCENDENCE





Because of our commitment to offer value to the EXATECs, this year the Department of Alumni Relations evolved its strategy, redesigning -through co-creation exercises- different initiatives to encourage the participation of the EXATEC community and share their time and talent.

With three strategies defined for 2025, and through services that enhance their personal and professional development and that of their organizations, we seek to increase the value we offer to our graduates by strengthening the relationships among them and, consequently, their sense of belonging to the Institution.

In addition, initiatives to promote the philanthropic culture in the student community have been detonated in collaboration with LiFE. All this without ceasing to recognize, through the EXATEC Awards, the outstanding participation of our graduates and the impact generated in the different communities where they work and in which they are boosting social transformation and the development of the country.



EXATEC Mentors

The guidance and accompaniment of the EXATEC Mentors are of utmost relevance for students in their last semesters, since they are about to enter the professional field where the guidance and accompaniment of an EXATEC mentor is really helpful.

In 2022, this strategy was focused on students in their last semesters, considering it a crucial experience.

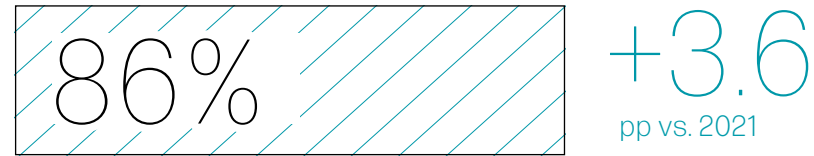
Over 1,100 of alumni mentored an equal number of current students.

Work Surveys' Results

Evolution of an EXATEC's career path from 5 to 25 years after graduation

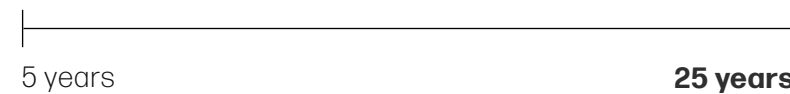
Employment rate

Three months after graduation

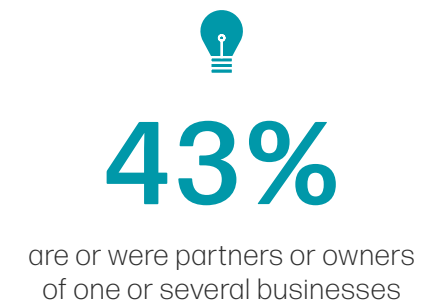
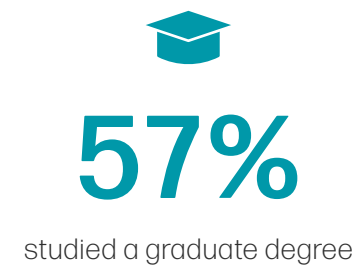


PROFESSIONAL PATH

Employment rate 5 years after graduation



Ten years after graduation, EXATECs:



Alumni Towards 2025



In 2022 is highlighted:

- 1 The reactivation of the EXATEC groups in the United States and abroad
- 2 The standardization of experiences at events
- 3 The strengthening of events for a cause
- 4 The improvement of the graduate's experience while accessing their value benefits through the mitec portal

We have rethought our approach to EXATEC outreach based on three guiding strategies, focused on generating value for the alumni:

1

To maximize the value of the relationships among alumni

2

To add value to their personal, professional, and organizational development

3

Tec as a medium for transcendence and philanthropic contribution

This evolution has enable the development of a model focused on the necessities of the EXATEC.

EXATEC Groups

This year we started the following Associations: EXATEC Accountants, EXATEC STEAM, EXATEC Irapuato, and the EXATEC *Líderes del Mañana Club*.

77 GROUPS THAT
CREATED MORE THAN:

80 events around the world, with **+1,800** participants

Outreach for Growth

Welcome Home

18 CAMPUSES
HAD:

26 Welcome Home events in which **5,822** EXATEC participated

3,800 generation leaders actively participated in **25** campuses

Blue Open Golf Tour, event with a cause

436 participants and **2.3 million pesos** raised for the scholarships programs

6 tournaments

EXATEC Awards

A total of 26 alumni were awarded one of two distinctions: EXATEC Trajectory Award (4) and EXATEC Merit Award (22), which celebrate the work, support, and transcendence that the graduate has had displayed in their community.

Tecnológico de Monterrey seeks to recognize and connect alumni considered agents of change, committed with the community and that represent the values of the institution.

EXATEC Trajectory Award 2022

The EXATEC Trajectory Award went to:

- **Antonio Cosío Ariño** (IC'59).
- **Bruno Giesemann Everbusch** (IAP'88).
- **Claudia Carolina Bárcenas Cárdenas** (IFI'90 and MIS'92).
- **Galia Borja Gómez** (MEK'14).

EXATEC Merit Award

The EXATEC Merit Award went to:

22 winners in 2022

each and every one of them celebrated during the ceremony in their respective campus

EXATEC on the Rise

2021 2022

Alumni part of the EXATEC Community

330,051

341,539

Participants in EXATEC events

36,398

10,053 The decline is due to a change in the criteria for counting event participants.

Events

Organized in 25 campuses, EGADE Business School, School of Government and Public Transformation, and Digital Education.

468

357

The decline is due to a change in the criteria for alumni events.

Active EXATEC clubs

13

13

Active groups in Mexico

46

35

The decline is due to the fact that it is now under new board criteria.

Active groups abroad

18

19

EXATEC on the Rise

Alumni

TecSalud



Our mission at TecSalud is to be the leading Academic Medical Center in Mexico, contributing to the transformation of medical practice and being known by its patient-centered culture of quality and safety.

The health crisis and global events of the past two years have reinforced our commitment to providing quality healthcare. Therefore, in 2022, an obvious step in TecSalud's evolution was the drive to improve private healthcare in Mexico.

To achieve this, we established strategic alliances with national and international institutions and created a new collaborative and advisory network for private healthcare institutions: TecSalud Network.

In addition, we continue to provide innovative medical services, which led Hospital Zambrano-Hellion and Hospital San José to appear in national and international rankings.

At TecSalud we work and innovate to continue improving the level and quality of medicine in Mexico.



At TecSalud we have an innovative academic model that prepares the best health care providers in Mexico, so that they develop the medicine and care of the future. We offer, through its Academic Medical Centers, a unique educational experience that has the leading experts in medicine and health sciences as its teachers, thus we attract and help graduate the best students.

734

students of the School of Medicine and Health Sciences rotate in our Academic Medical Centers.

269

residents from the multicentric program

13,328
patients hospitalized

7,200
surgeries

108,865
patients cared for with out-patient- services

+3.9
million
TecSalud
webinar
viewers

Cutting-edge Research

At TecSalud we seek to contribute to science by searching for solutions to eradicate, treat, and prevent diseases through the development of diverse basic, translational, and clinical research protocols.

Basic research conducts biological studies in pathophysiological conditions, while translational research aims to understand the disease from its origin, causes and evolution, to propose and evaluate new experimental therapies in preclinical models, which will lay the scientific foundations for conducting clinical studies with patients.

1 original protocol
in collaboration
with the Mexican
company Inosan
Biopharma

**27 clinical
research
protocols**
with clinic reseach
companies

248 participants
in clinical research
protocols

6 research groups
with an strategic
focus at the School
of Medicine and
Health Sciences

For the third consecutive year, TecSalud's San José and Zambrano Hellion Hospitals stood out among the top 10 private hospitals in Mexico, and among the top 3 hospitals in the Northern Region of the country in the 2022 national ranking of "The Best Private Hospitals in Mexico", conducted by the company Blutitude, the Mexican Health Foundation, and Expansión.

In addition, they stood out in the top 3 in specialties such as **emergency medicine, orthopedics, traumatology, gynecology, urology, plastic surgery, and pediatrics.**

This year we continued to strengthen our strategic areas of high specialty in cardiology, oncology, neurology, and transplants, through the inauguration of the Cardiovascular Intensive Care Unit, the Center for High Specialization in Epilepsy, and the organization of various forums and symposiums in cardiology, neurology, and organ transplants.

Our mission at TecSalud is to be the leading Academic Medical Center in Mexico, contributing to the transformation of medical practice and distinguished by its patient-centered culture of quality and safety.

In 2022, TecSalud achieved the Pathway to Excellence designation, an international credential awarded by The American Nurses Credentialing Center, which recognizes a health care organization's commitment to creating a positive practice environment that empowers and engages nurses.

Following the objective of improving the level of private medicine in the country, offering excellence in medical care, and sharing best practices, **in 2022 we created a new collaboration and advisory network for private medical care institutions called TecSalud Network.** This year Hospital CIMA

Hermosillo and Hospital Galenia in Cancún were added to the network.

This year also saw the opening of the first **Primary Care Center in San Pedro Garza García**, which enriches TecSalud's community outreach and positioning strategy. In addition, with the goal of **continuing to collaborate with science** to create new solutions to eradicate, prevent and control diseases, we worked on the development of clinical research protocols with companies and laboratories such as Inosan Biopharma, AstraZeneca, Pfizer, ObiPharma Inc, among others.

Toward 2025, we continue to promote a cultural movement in its three key areas: **Wellness, Prevention, and Longevity.** As part of this strategy, the Health4Life space was inaugurated at the Zambrano Hellion Hospital, which **promotes the concept of integrative medicine.**

This year, at TecSalud we established agreements with leading national and international institutions:

- **Houston Methodist:** in order to expand and reinforce the medical and health care services of both medical centers.
- **National Association of Private Hospitals (ANHP, in Spanish):** to improve the standard of the health care services offered in Mexico.
- **Mexican Hospital Consortium:** to improve the offer of hospital services in the country.



In 2022, at Fundación TecSalud we provided medical attention to close to 26,877 patients from our community, through different programs:

Integral Health Center

Comprised of the Ophthalmology Clinic, the Primary Care Clinic, the Women's Care Unit, and the Academic Center for Comprehensive Wellness Care (CAABI, in Spanish), the Center offers health services at a social price, with the quality and infrastructure that distinguish TecSalud.

16,450 patients benefited with 41,176 services:

- 26,969 consultations
- 13,618 studies
- 589 medications

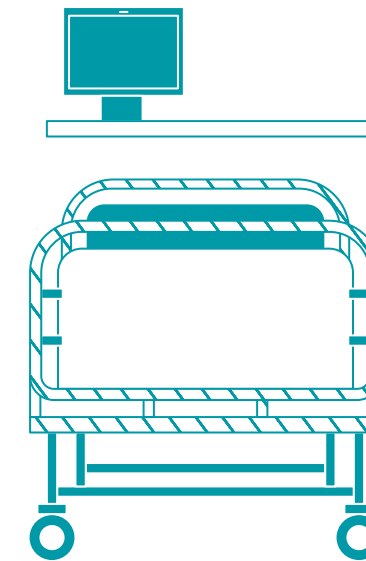
1,859 surgery and Ophthalmologic procedures



Prevention for Health Care

For us, true prevention has to come from **educating the community**, so that each person takes ownership of their health through knowledge, action, and daily movement. Through the PREVER Conference Program, we create a culture of health education for underprivileged communities.

In 2022, 34 volunteer medical professors and health care personnel of TecSalud gave 44 lectures that reached 9,391 people.



Health Care Funds

Fundación TecSalud has funds at its disposition to cover the medical and hospital care of social patients (people that meet the preset requirements to be benefited).

Medical Volunteering and Student Participation

The actions of Fundación TecSalud were conducted thanks to the altruist spirit and commitment of volunteer medical professors, residents, and students from the School of Medicine and Health Sciences.

This year, four doctors from TecSalud joined an international humanitarian aid brigade to Poland, to give medical care to Ukrainian refugees displaced by the war with Russia. Over a 100 patients were cared for a day.

In 2022, we had the participation of 71 medical faculty from TecSalud and 421 students and residents from the School of Medicine and Health Sciences of Tecnológico de Monterrey.

The care funds benefited 1,036 people in 2022.



Clinical Research Protocols

At TecSalud we work to contribute with science to find **solutions to eradicate, treat, and prevent diseases through the development of clinical research protocols**. In these protocols, patients participate voluntarily in order to have access to **new innovative and safe treatments**.

This year, **an original Phase 1 research protocol** was carried out in collaboration with the Mexican company **Inosan Biopharma**, to study the impact of

a polyclonal equine serum drug for the prevention of a severe case of COVID-19, in which **32 volunteers participated**. The original protocols are those designed and developed by TecSalud in collaboration with other companies.

This year **TecSalud developed 27 clinical research protocols with pharmaceutical industry laboratories such as Eli Lilly, AstraZeneca, Obi Pharma Inc, Pfizer, GSK, Vaxxinity, and Amgen**.

These protocols had **216 volunteers** and focused on the study of treatment of oncological diseases (breast and lung cancer), gastrointestinal diseases such as ulcerative colitis, COVID-19, and HIV.

The protocols sponsored by the pharmaceutical industry are protocols that have been carried out in TecSalud for more than 10 years and, based on the results and the installed capacity, we are selected to conduct new protocols.



Chapter 4.0

Tecmilenio



2022 was a year of celebration for Tecmilenio. We celebrated two decades dedicated to sharing and opening up paths towards the life purpose of thousands of people. We went back to campus and strengthened our offer for lifelong learners.

Two decades and one pandemic have given us big lessons.

The work landscape has changed a lot and at Tecmilenio we continue to adapt to offer the skills demanded by this era. In 2022 we strengthened the Digital Skilling portfolio with more than **220 programs** in alliance with organizations such as IBM, Google, AWS, and Microsoft, and we offered courses that allow us to upskill and reskill the competencies needed to manage the new business models of the digital world.

In addition, we had a historic growth in total enrollment on the way to fulfilling the 2030 vision of reaching millions of learners. **These 20 years of sharing paths towards the life purpose of thousands of people, endorse Tecmilenio's commitment to learning.**

Tecmilenio

61,522

students in the Formal Education offer, the highest level registered so far

4,830

professors

35,000

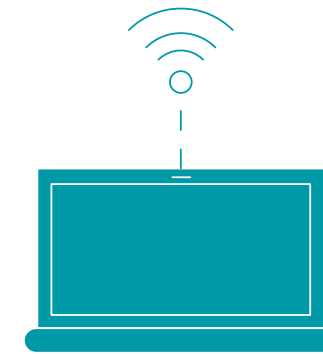
Lifelong learners

220

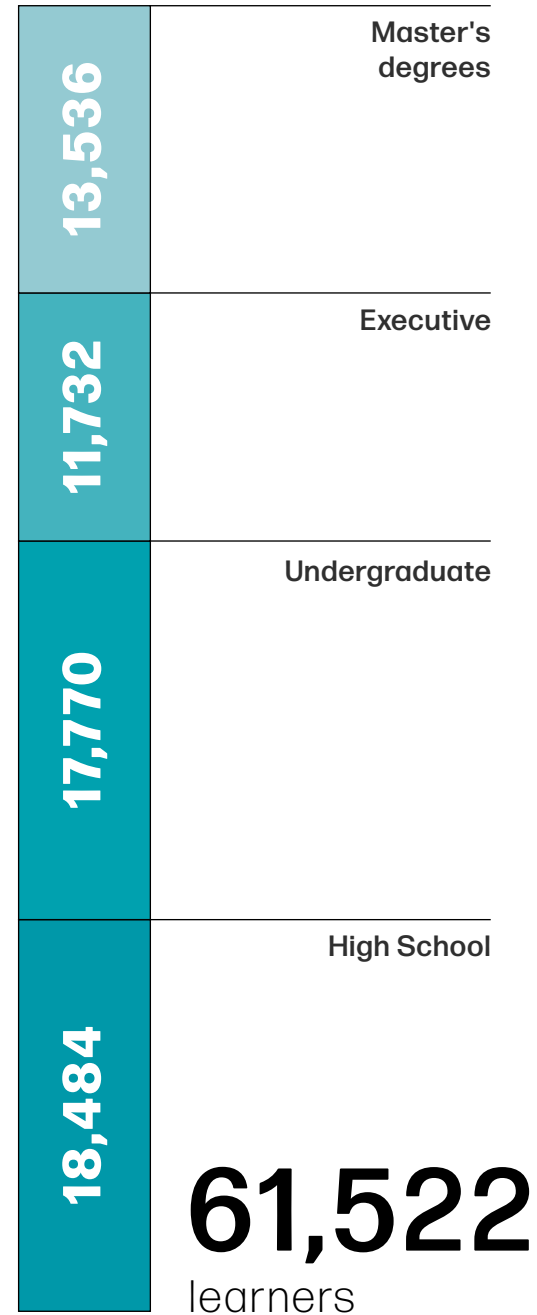
programs in the Digital Skilling portfolio

17,891

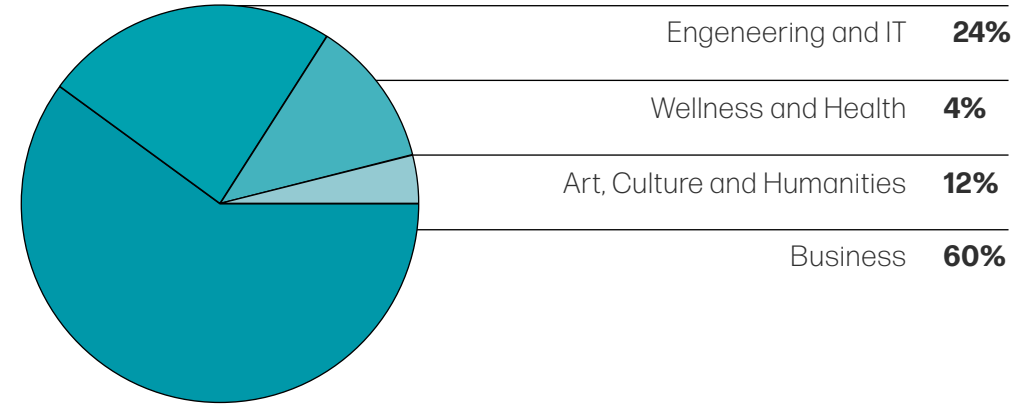
students in hybrid modalities (Online and Connect)



TECMILENIO'S PATH



STUDENTS PER KNOWLEDGE AREA



REMOTE MODALITIES

17,891

students in remote modalities

6,594 Connect students +69% vs 2021

11,297 in the Online program

FINANCIAL AID AND SCHOLARSHIPS

52,705

students with financial aid or a scholarship for a semester or tetramester, which represents:

85.7%

of total enrollment

ALUMNI

11,734

Alumni in 2022

151,434 Alumni to date

90% of graduation candidates have a job before graduation

*Survey of Graduation Candidates, DEC 2022

Tecmilenio



43% of our undergraduate alumni are the first in their family to obtain a university degree

 **90.4 %** of employability for graduate and undergraduate alumni every semester

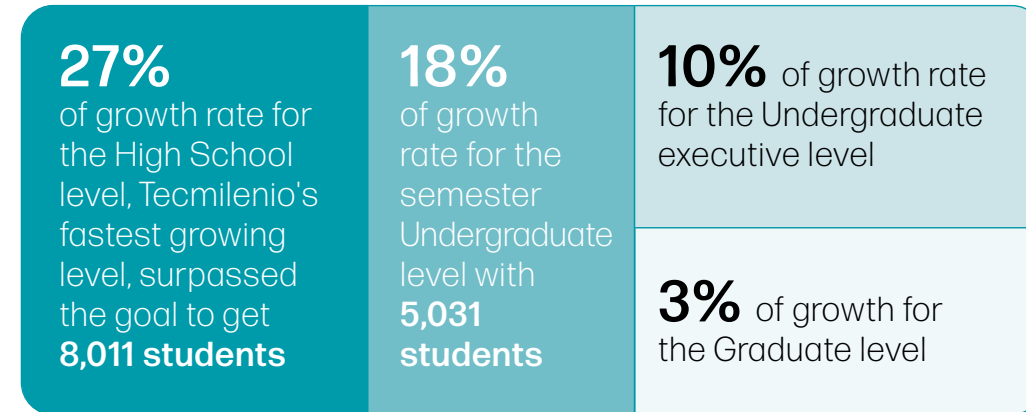
CAMPUSES AND PRESENCE

29 Traditional campuses **10** Connect spaces **1** Online campus

Presence in 27 Mexican cities



Growth



Professional Institute Tecmilenio

We have increased the offer of the Associate Professional, an intermediate level between High School and Undergraduate, with which it is possible to obtain a Higher Technical University Degree (STU, in Spanish) in only two years.

3 new

Associate Professional undergraduate degrees: **Software Development, Tourism and Business Administration**

The programs offer remote and tetramester modalities, to better fit the students' context

Tecmilenio Competence Center

We strengthened the **Tecmilenio Competence Center (CDC, in Spanish)** to offer **97 certificates, 615 micro credentials, 283 credentials, 16 educational routes, and 22 bootcamps for digital competencies.**

Tecmilenio University

During 2022, our High School and Undergraduate students excelled in different competencies:

40 robotics teams represented Tecmilenio

12 awards won at the world FIRST Robotics Competition 2022

280 participating students

52% of participants are women

8 out of every 10 will study a STEM program

6 awards won

1 pass to the World Cup

FIMPES Accreditation

During 2022, the process of reaffirming the most important **national accreditation of private universities was carried out: FIMPES**, which was obtained for the first time in 2016 and corroborates the quality and academic excellence of each of the campuses nationwide.

In 2022 we celebrated two decades with events like the tenth edition of Wellbeing 360, a panel of rectors, and the TecmiFest:

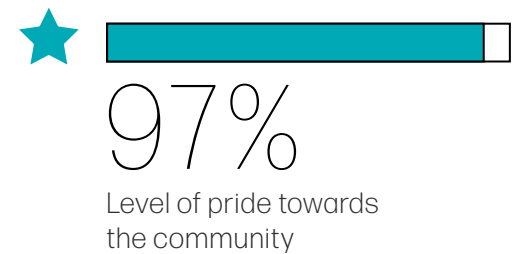
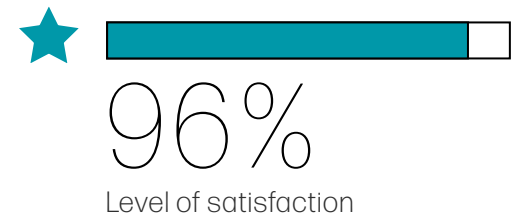


Wellbeing 360

Wellbeing 360 celebrated 10 years of benefiting more than 250 thousand people from 86 countries, with the participation of more than 250 world-class experts in different dimensions of wellbeing. The 2022 edition had **24,000 registrations** from more than 60 countries.

Business Partnerships and Solutions

At Tecmilenio we specialize in providing solutions based on integral wellbeing. We collaborate with leading companies such as BBVA, FEMSA, Coppel, LAMOSA, Banregio, and Farmacias del Ahorro, reaching more than 14 thousand employees.



Chapter 5.0

Our Organization



TRANSCENDENCE

Institutional Culture

Despite the external events that happen in the world, the culture of Tecnológico de Monterrey stands tall, as it is the way of being and acting of an Institution of society and for society.

This culture is a reflexion of values, norms, leadership, processes, spaces, systems, beliefs, and how to face the challenges of today and tomorrow.

In spite of the tests that the pandemic brought, it was shown that our values are stronger and more rooted than ever in the community, part of Tecnológico de Monterrey.



Institutional Culture

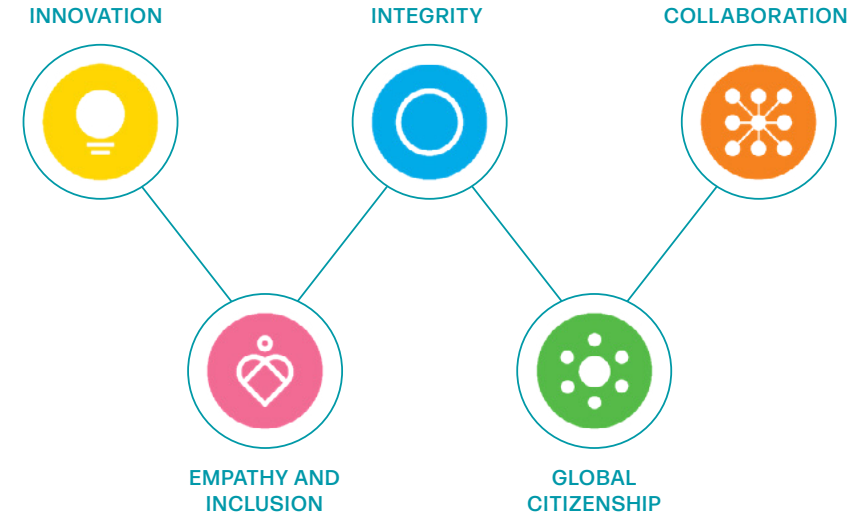
Our Organization



Institutional Values that Transcend

The Tecnológico de Monterrey community is united through the values that identify it, with which they lead by example.

The five values that characterize us as an Institution are beliefs that govern and bring us closer to the aspiration of fulfilling our vision and being the best place to grow personally and professionally.



Results of the organizational climate survey miECO 2022

After 4 years, we applied the organizational climate survey, which obtained good results

		2022*
Institution	Index of values	4.42
	Innovation	4.43
	Integrity	4.44
	Collaboration	4.38
	Empathy and Inclusion	4.42
	Global Citizenship	4.45

*1 to 5 scale where 1 is "definitely in disagreement" and 5 is "definitely in agreement"
Source: Measurement done through miECO 2022, a Gallup tool.

Average commitment of employees 4.12

Number of persons committed for one person not committed	
Global	1.10
Universities in Gallup	2.75
Promedio Gallup	4.36
Tec	6.75
Highest Gallup Percentile	10.66

Culture of Integrity for Growth

To strengthen the culture of integrity among the students, professors and employees of our Institution conducted different initiatives, from which we highlight the following achievements:

 76,237

(79%) students signed the Academic Integrity Code

 91 %

professors and employees accredited the course "My Commitment with Integrity"

Human Flourishing that Transforms

Human flourishing is a personal and conscious skill development process for all aspects of life, in which each person relates to their community and environmental surroundings to create a better world, respecting their own dignity and the dignity of others.

In 2022 a new narrative and visual strategy was design for the socialization of the definition and component of Human Flourishing among the community of Tecnológico de Monterrey, concentrated in:

- ° Best person ° Best community ° Best planet.



Talent


A part of Tecnológico de Monterrey's success and development are the employees and all the people that are part of this institution.


65% of leadership positions in the institution were covered with internal talent.

This year we identified **190 faculty members** from the **6 National Schools**.

Young Talent

To prepare tomorrow's leaders, in 2022 processes and programs aimed at young talent were designed, like Tec Trainees and Oncampus Interns.


49
recently graduated professionals are part of the third generation of Trainees


+1,500
of students from Tecnológico de Monterrey and Tecmilenio University participated in the program **Oncampus Interns**

Talent Management

Processes like detecting and preparing a group of talented employees for future replacement movements were implemented.

<p>We identified potential in over</p> <p>2,400</p> <p>academic and support leaders</p>	<p>We defined successors of</p> <p>607</p> <p>(64%) leadership positions</p>
--	---

Development

We supported the development and growth of employees through tools, specific resources, and differentiating programs.

+200
employees with growth potential were invited to join programs and specialized support sessions to boost their professional development.

+4,000
employees as part of the Development Plan, defined concrete actions to enhance their learning, based on their aspirations and professional interests, with their leader offering guidance as their coach.


Our Organization

Growth Opportunities

We work on the professional advancement of teachers and employees, providing transparency in the selection processes.

2,708 growth opportunities

42% opportunities covered with internal employees.

 <p>Women in managerial positions</p>	2014	8%
	2019	18%
	2022	27%

62% of all promotions were occupied by women

The pay gap in the last 3 cycles has been reduced from 11.1% to 7.8% in 2022

The increase of High Potentials in the 21-22 cycle were mainly women (64%)

Fostering a Sense of Belonging

Family Day

Space for integration that seeks to increase the sense of belonging through aspirational activities to get to know the institution, live the culture, values, and to encourage environmental care, reinforcing that: **#WeAreTecFamily**.

59 entirely in-person events with an attendance of **+20,900 people**

Loyalty

To promote a sense of pride and belonging in teachers and employees, we recognize their years of commitment to the institution.

+3,000 people recognized for their loyalty to all institutions

TechSavvy

It was created as a development offer to measure and build tech skills.

+3,500 employees and professors identified tech skills to work on

TECservices

Some years ago at Tecnológico de Monterrey we dreamed of offering to the public a service model that integrates all possible solutions in a sole point of attention, with the promise of providing an extraordinary experience, today, that is a reality with **TECservices**.

+145,000 people solved their needs thanks to TECservices

Optimized infrastructure

With the new Data Center, built under world class standards, it is guaranteed the availability of critical services to +99% of the:

500,000 users from different audiences of the Tec community



Agility Enablers

mividatec

Provides timely support to over 60 thousand students, where they can share their likes and interests, design and follow up on their life plan, and interact with key persons to make the version of what they want their reality to be happen.

App mitec

Our new student app was created to strengthen their relationship with the institution, facilitating access to the main services.

Parents

+60,000

have access to the improvements of the academic, administrative, and financial services through mitec.

For all audiences

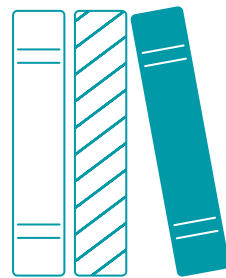
With over 280,000 active users and 4 million monthly visits, mitec is a unique platform for all audiences of the community: students, parents, EXATECs, employees, and Board members.

Though mitec, TECbot has positioned itself among users and receives over 46,000 monthly inquiries.

Diversity and Inclusion

Talking about diversity, inclusion, and equity is recognizing the dignity in all people. Which is why, at Tecnológico de Monterrey we are convinced of the great value that this subject brings and that makes us a unique community.

In 2022, the actions taken were based on the **principle of equality and non-discrimination**. The committees, educational courses, and publications were part of the efforts to become an increasingly more inclusive community and to strengthen this culture at Tec.



There are five Diversity and Inclusion advisory committees:

- *Impulsa*, for gender equality
- Persons with Disabilities
- LGBT+ Community
- Cultural Diversity
- Socioeconomic Diversity

The Guide for Inclusive Language was one of 3 inclusion guides published this year.

Education in Human Dignity

24,595 staff/faculty members concluded the educational courses on Human Dignity

34,596 High School, Undergraduate, and Graduate students credited the subjects on Human Dignity



Safe Community and Gender Equality

974

consultations with experts in gender violence, discrimination or violation of human dignity

74

attended reports with the protocol

Consolidation of Structure for Prevention

24

on-site attention points at 16 campuses, which provide services to the 25 campuses

3

regional coordinations of attention points for Tecmilenio

Our Organization

Tec Woman Award 10th Anniversary

<p>154 unique nominations</p>	<p>69 students 40 alumni 29 staff or managers 16 professors</p>
<p>16 winners in 9 categories</p>	<p>9 alumni 4 staff or managers 2 professors 1 PrepaTec student</p>
<p>2 winners in special categories</p>	<p>Career María Elena Estavillo for her contribution and impact in different fields</p> <p>Pioneer Rosaura Barahona (posthumous) for her fight and for closing gaps in communication and academia.</p>

The Tec Woman Award was created to recognize and make visible the contributions, talent, and career of the women in the Tecnológico de Monterrey community.



Sustainability

This year's sustainability efforts helped us reduce our ecological footprint in terms of greenhouse gas emissions, waste, and water, while raising awareness in our community.

All the advances of the six axes of the plan (Culture, Mitigation, Adaptation, Education, Research, and Outreach) were published in our Annual Ruta Azul Report, which reaffirms that at Tecnológico de Monterrey we are on the right path in the fight for a sustainable future.

Sustainable Development

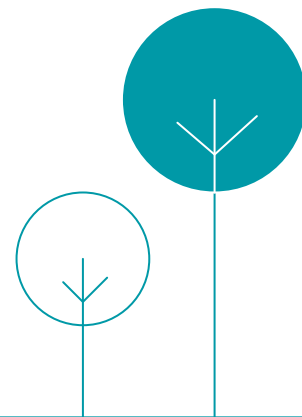
The fight against climate change and the global environmental crisis have been priorities of the Institution for several years, but with the lessons learned after the pandemic, in 2022 sustainability actions were implemented with more commitment than ever.

Ruta Azul, the Sustainability and Climate Change Plan for 2025 of Tecnológico de Monterrey is our guide. It is the path laid out to achieve a sustainable future that will make us a model of sustainability.

Presentation of the 2nd Sustainable Development Initiatives Report

At Tecnológico de Monterrey we are ranked 1st in LATAM in THE Impact Ranking in SDG* 13 Climate Action, and SDG 17 Partnerships to Achieve the Goals.

*SDG: Sustainable Development Goal defined by the UN.



Sustainable Future Under Construction

Ruta Azul

Ruta Azul is the Plan for Sustainability and Climate Change Towards 2025 at Tecnológico de Monterrey.

As part of the project we have participation in the following networks:

- International Sustainable Campus Network (ISCN)
- Alliances for Climate Action in Mexico
- University Global Coalition (UGC)
- University Climate Change Coalition (UC3)

Ruta Azul was at 40 events:

12 International
18 Nationals
10 In-house

Greenmetrics

+178 positions climbed in the Greenmetrics* at Monterrey Campus

*It is the ranking that compares the impact of academic institutions around the world on energy, climate, waste, transportation, water, biodiversity, and infrastructure. It also analyzes the sustainability of the education and research programs of these institutions.

Faculty

994

professors trained in sustainability

351

expert professors in sustainability

Events

Tec Week with Humanistic Outlook

3,997 students took a course on the climate crisis and the sustainability culture

Participation in the COP27 event in Sharm el-Sheik, Egypt.

We participated as nominating entity in the **Earthshot Prize**, the most prestigious environmental award.

Programs

Launch of the Leadership for Climate Action Program

the corporate government agenda, with Chapter Zero and EGADE.

Launch of the Arroyo Vivo Project

Amendment and inclusive recycling model in the initiative Campana-Altamira and distritotec, with funding from NOAA, Fundación FEMSA, and Tec de Monterrey.

Chapter 6.0

Institutional Government



TRANSCENDENCE

During this year, the governing bodies of Tecnológico de Monterrey accomplished their responsibility to **safeguard Tec's vision and values, and assist in establishing and enforcing its strategy**, as well as the management of its resources and talent.

In 2022, both the Board of Trustees of the Institution and the Assembly of Associates reflected on these topics and applied the lessons gained during the pandemic for the growth and evolution of Tecnológico de Monterrey.

Annual Assembly 2022

The Anual General Assembly 2022 of the Board was held in February of 2022 in the Sala Mayor of the Rectory, in a hybrid format with the in-person participation of members of the Board of Trustees, and the virtual participation of Board Members brought on board because of the COVID-19 health crisis.

Board of Trustees Meeting 2022

The Annual Meeting of Trustees presented the Institution's vision for an innovative and sustainable future and discussed the challenges facing the country and the world.

This year event was held in a hybrid format from the Monterrey campus, and was attended in-person and online by:

Personalities such as **Gordon Brown**, former British Prime Minister; **Esther Duflo**, Nobel Prize winner in Economics; and financial journalist **Michael Lewis** gave lectures in which they shared their ideas on how to face the challenges of the future.

645
participants

167
in-person

478
virtual



Institutional Government

Institutional Government

Assembly of Associates of ITESM, EISAC and ITESMAC

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Appendices

For our institution, this year was about evolution. We applied the lessons we learned in these last few years in our day to day, and are reflected in the actions we take and the accomplishments we had in this period.



Appendices

Appendices

Conglomerado de siglas

AACSB	Association to Advance Collegiate Schools of Business	ARWU	Academic Ranking of World Universities
AAHCI	Alliance of Academic Health Centers International	ASCO	American Society of Clinical Oncology
AAHCI LAC	AAHCI Latin America & the Caribbean	ASU+GSV Summit	Arizona State University and Global Silicon Valley Summit
ABET	Accreditation Board for Engineering and Technology	AWS	Amazon Web Services
ACEJMC	Association for Education in Journalism and Mass Communication	BGA	Business Graduates Association
AECID	Spanish Agency for International Development Cooperation	BID	Inter-American Development Bank
AMBA	Association of MBAs	CAABI	Academic Center for Comprehensive Wellness Care
AMIC	Mexican Association of Communication Researchers	CADIs	Refresher Course on Discipline
Aug-Dic 2022	August - December 2022	CDC	Tecmilenio Competence Center
ANHP	National Association of Private Hospitals	CEDDIE	Center for Professor Development and Educational Innovation
APAIE	Asia-Pacific Association for International Education	CEP	Corporate Engagement Program
APRU	Association of Pacific Rim Universities	CID	Research and Development Congress
		CIIE	International Conference on Educational Innovation
		COFECE	Federal Economic Competition Commission

Appendices

COMECyT	Mexican Council of Science and Technology	Employees	people that provide their services to Tecnológico de Monterrey in exchange for a fee
CONACYT	Consejo Nacional de Ciencia y Tecnología	EN	Business School
CONADEIP	National Student Sports Commission of Private Institutions	ENARM	National Examination for Medical Residency Applicants
COPAES	Council for the Accreditation of Higher Education	EQUAA	Education Quality Accreditation Agency
CPD	Cicle of Outstanding Professors	EQUIS	European Quality Improvement System
CV	Curriculum Vitae	ESFA	EGADE Search Fund Acceleration
D&I	Diversity and Inclusion	EXATEC	Alumni of Tec de Monterrey on Undergraduate and Graduate Level
EAAD	Architecture, Art and Design School	FAO	Food and Agriculture Organization
ECOA	Students' Opinion Survey	FEMSA	Fomento Económico Mexicano S.AB. de C.V.
ECSG	Social Science and Government School	FILS	Global Health Leadership Forum
EGADE	Graduate School of Administration and Business Management	FIMPES	Federation of Private Mexican Institutions of Higher Education
EGS Global Leadership	Eugenio Garza Sada Global Leadership	FIRST	For Inspiration and Recognition of Science and Technology
EGTP	Government and Public Transformation School	First Generation with Professional Studies	Students who are the first in their families to access higher education
EHE	Humanities and Education School	FISU	International University Sport Federation
EIC	Engineering and Sciences School	Foreigners	Students residing in a state or city outside the place of study
EMCS	Medicine and Health Sciences School		

Appendices

FUNSALUD	Mexican Foundation for Health	Líderes del Mañana	Students pertenecientes al Programa Líderes del Mañana
GEDC	Global Engineering Deans Council	Líderes del Mañana Program	Total financial aid program for brilliant youths that require financial support
Graduate	Higher education level further than a bachelor's degree	LIFE	Leadership and Student Comprehensive Education
GSL	Global Shared Learning	MDP	Million Pesos
Hospital San José	TecSalud Hospital	NOAA	National Oceanic and Atmospheric Administration
Hospital Zambrano Hellion	TecSalud Hospital	NPS	Net Promoter Score
IACEE	International Association for Continuing Engineering Education	OCDE	Organization for Economic Co-operation and Development
IEEE	Institute of Electrical and Electronics Engineers	ONEFA	National Student Organization of American Football
IFE	Institute for the Future of Education	Outstanding Professors	Professors with a high grade in the Student Evaluation
IFEM	Family Business Institute	Outstanding Students	"Outstanding student with a High School average of ≥ 90 and a notable extra-academic profile (evaluated through CV and essay)."
iGEM	International Genetically Engineered Machine	pp	Percentage Points
INFONAVIT	National Workers' Housing Fund Institute	PrepaTec	Tec de Monterrey's High School
International students	Students with a nationality other than Mexican	Positive University Model	Model under which Tecmilenio operates
INS	International Neuropsychological Society		
LATAM	Latin America		
LGBTQ+	Lesbian, Gay, Bisexual, Transsexual, Queer, and more		

Appendices

Pyme	Small and medium-sized enterprises	Tecmilenio	TecMilenio University
Ranking QS	QS World University Ranking	Tecnológico de Monterrey	Private, not-for-profit, multi-campus university system
RECLA	Continuous Education Network for Latin America and Europe	TecSalud	Tecnológico de Monterrey's Health System
RISE	Real Impact on Society and Environment	TI	Information technologies
RNP	National Professors Reunion	TIFF	Toronto International Film Festival
SACSCOC	Southern Association of Colleges and Schools Commission on Colleges	U21	Universitas 21
Scopus	Bibliographic database	U40	Soluciones Incompany
SDGs	Sustainable Development Goals	U4P	University for People
SEMESP Brasil	Union of Higher Education Maintenance Entities in the State of Sao Paulo	UAM	Autonomous University of Madrid
SIUM	Metropolitan Urban Information System	UCLA	University of California, Los Angeles
SNI	Mexican National System of Researchers	UDA	University of Azuay
STEAM	Science, Technology, Engineering, Art and Mathematics	UGC 2022 Virtual Gathering	University Global Coalition 2022 Virtual Gathering
SUTD	Singapore University of Technology and Design	UIPES	State Asset and Economic Intelligence Units
SWRI	Southwest Research Institute	UN	United Nations
Tec21	Educational Model of Tec de Monterrey	Undergraduate	Higher education level (bachelor's degree)
Tec de Monterrey	The university	UNESCO	United Nations Educational, Scientific, Cultural Organization

Appendices

UNICON	Consortium for University-Based Executive Education
UNIDO	United Nations Industrial Development Organization's Global Entrepreneurship Statement
VR	Virtual Reality
WUN	The Worldwide Universities Network
WWCC	Women Who Conquer Cancer