



TECNOLÓGICO DE MONTERREY

1943

350
students

Undergraduate
programs

only in:

Business &
engineering



94,424 students



60,169 Undergraduate

7,461 Graduate

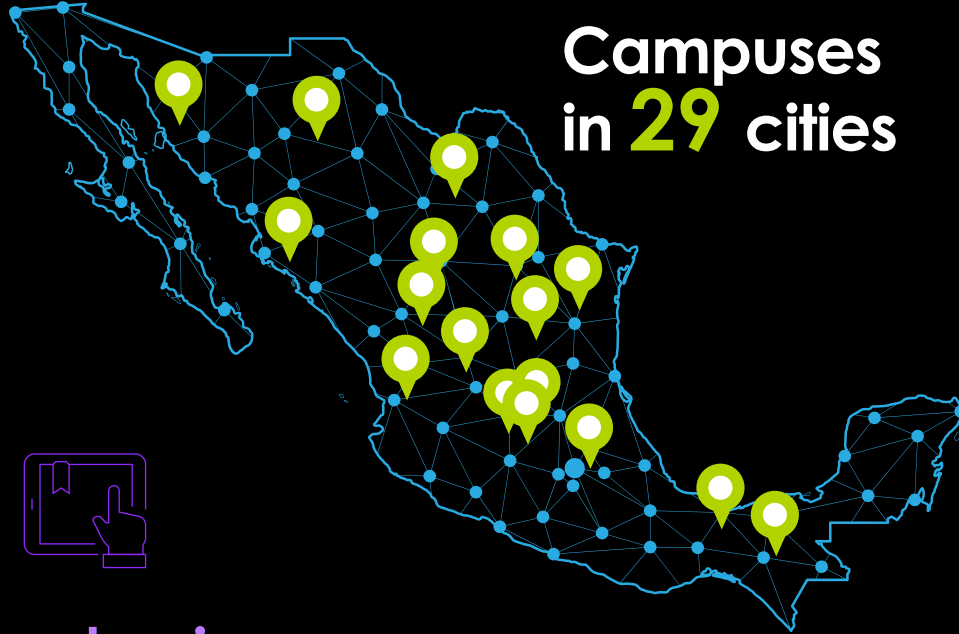
26,794 Sr. High School



+10,000
professors



+330,000
alumni



Campuses
in **29** cities

**Academic
programs**

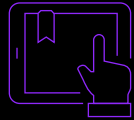
44 Majors

41 Masters

17 Health Specialities

11 PhDs

3 Sr. High School programs



6 Schools

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



617
researchers

National Research System



#170
in the world

#30
private in
the world

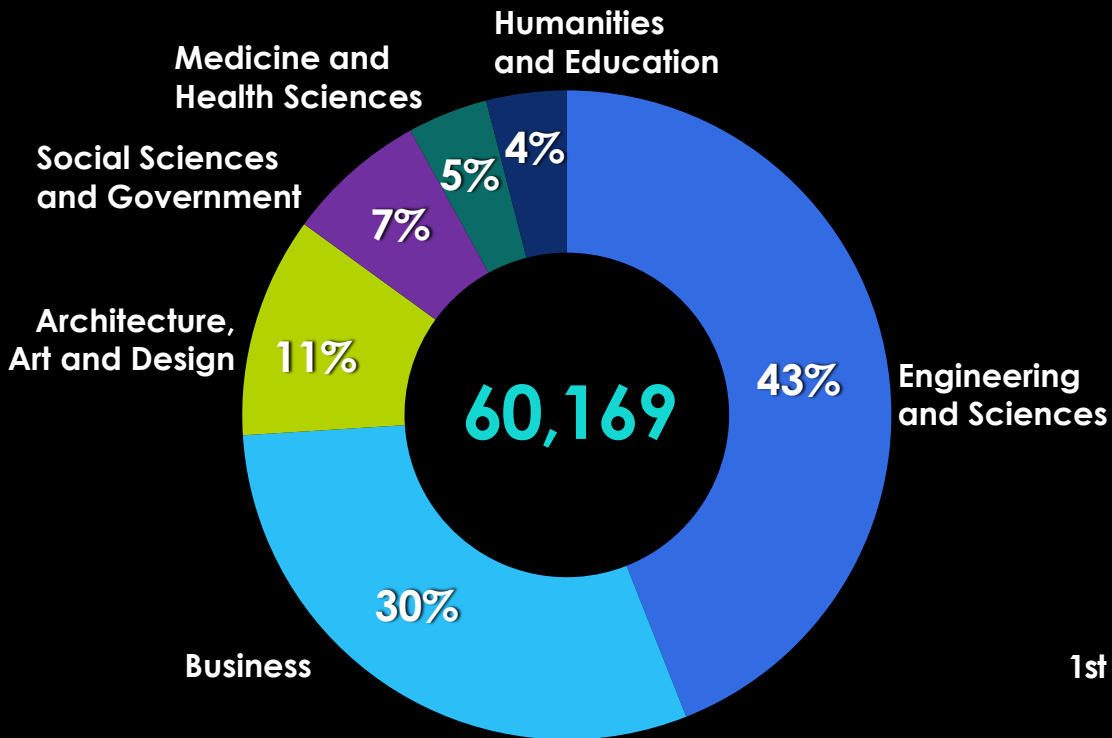
#6 undergrad
entrepreneurship
programs



Our students



Undergraduate



with financial aid

51% 92%

out-of-state
31% 43%

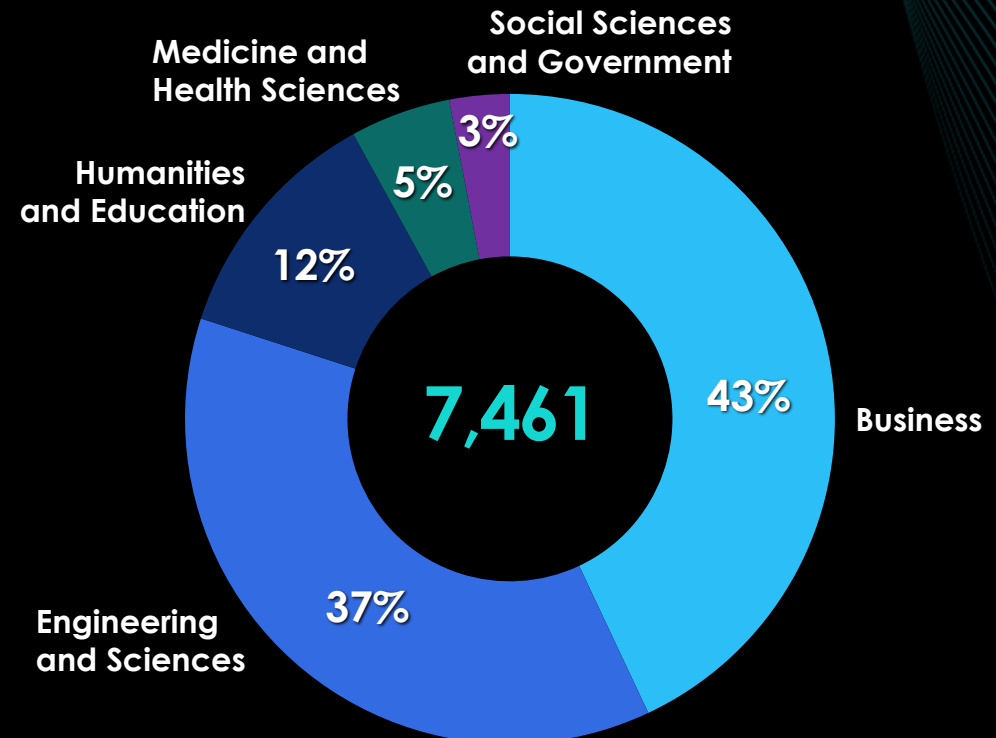
international students

5% 6%

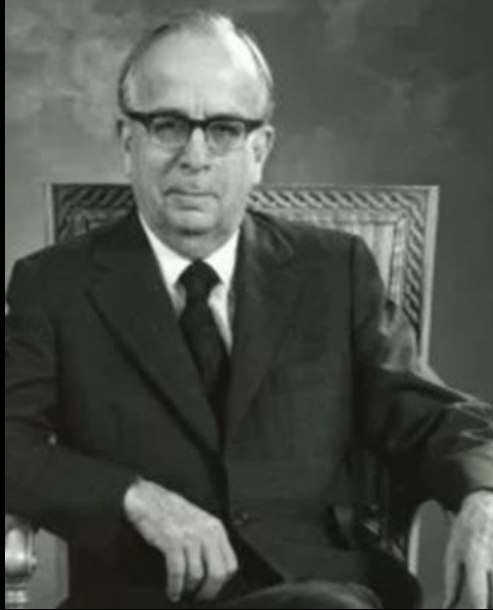
12%
1st generation

89/100
GPA

Graduate



International DNA



MIT: Reference at foundation.

1950: First **SACS** accredited school outside the USA

Among the global leaders in **student mobility**.

Strongest links in Latin America with universities in the **USA**

(MIT, Yale, Harvard, University of Texas, Arizona State, partners in MIT's nanotech lab, etc.)



Over the years...

1943 Foundation of Tecnológico de Monterrey

1950 SACSCOC International Accreditation
Majors that combine engineering with administration

1969 First major in Computing in Latin America

1973 Geographic expansion starts

1988 First Internet connection in Latin America

1989 First Virtual University in Latin America
(distance education)

1990 Strengthening graduate programs and research centers

1997 Teaching practice redesign
Requirement of a Laptop for all students

2005 Impulse of entrepreneurship ecosystem

2013 - 2018

Selectivity

Tec21 - Incremental implementation starts

Research MIT Agreement

DistrictoTec

Telepresence with hologram effect

2019 Tec21 Educational Model - Full Deployment

2020 - 2021

Research Institutes

Faculty of Excellence

MONTERREY





CIUDAD DE MÉXICO

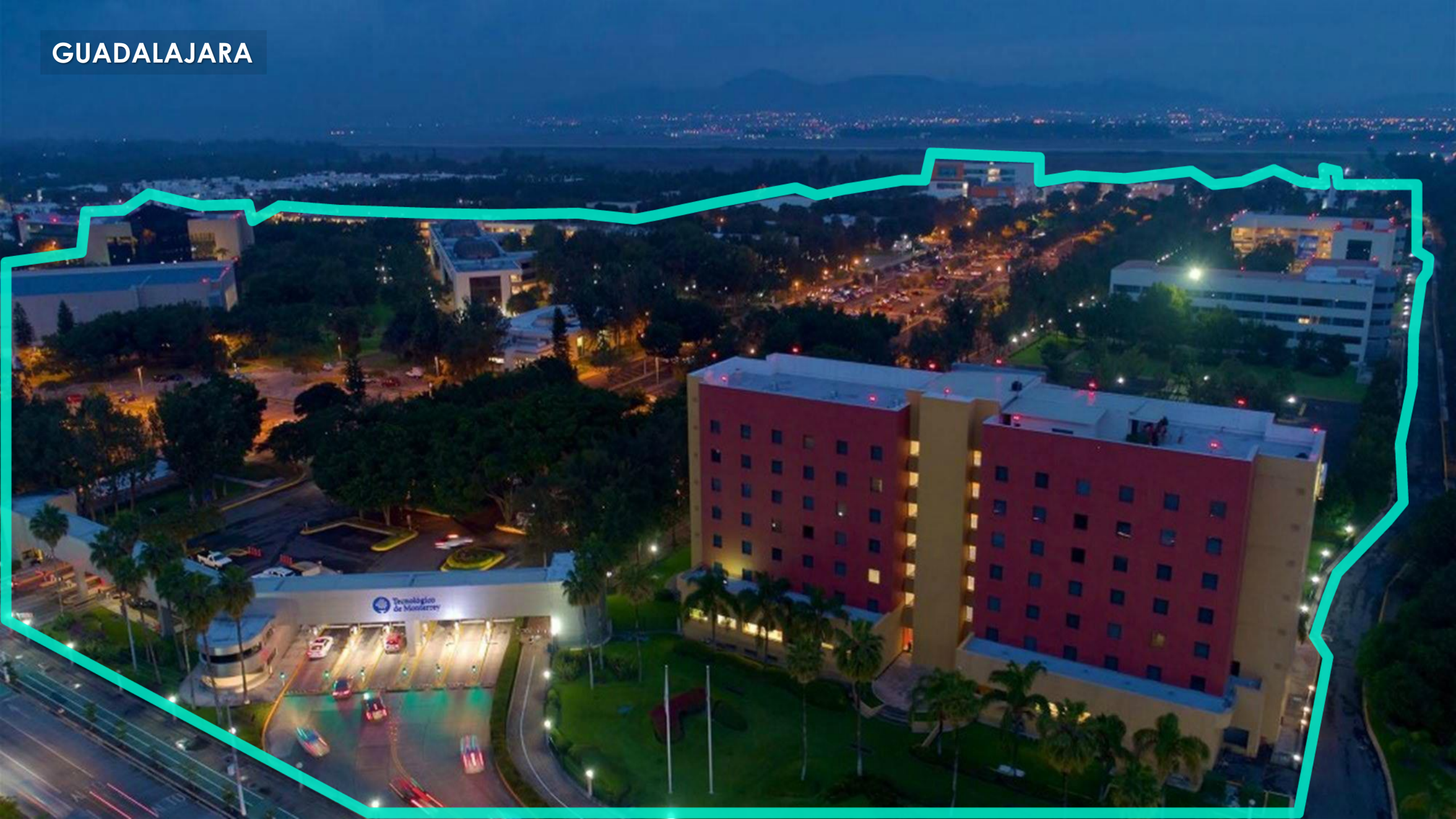
ESTADO DE MÉXICO



SANTA FE



GUADALAJARA



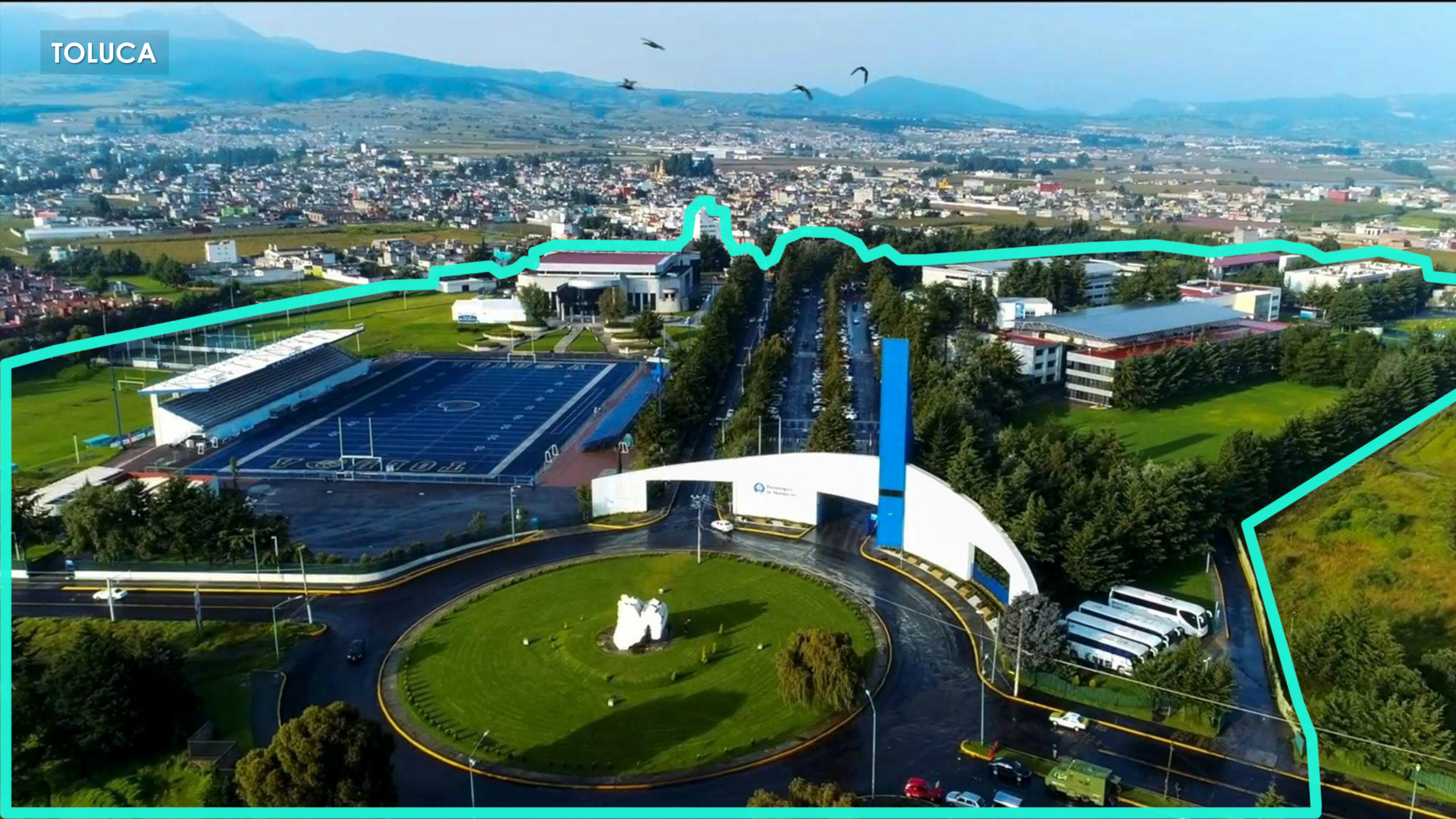
QUERÉTARO



PUEBLA



TOLUCA



AGUASCALIENTES



LEÓN



LAGUNA



SALTILLO



SONORA



CHIHUAHUA



HIDALGO



SINALOA

TAMPICO



SAN LUIS POTOSÍ



CUERNAVACA



MORELIA





CHIAPAS



ZACATECAS



CIUDAD OBREGÓN



CIUDAD JUÁREZ



VERACRUZ



IRAPUATO

+59,000

students

28,576 Undergraduate

13,182 Graduate

17,532 Sr. High School



29 campuses in 20
states of Mexico

141,000

alumni

40,060 Undergraduate

44,190 Graduate

56,980 Sr. High School

2 Academic Health
Centers

12 High Speciality
Institutes

7 Specialities

- Breast cancer
- Heart attack and heart failure
- Pain management
- Integral wellness
- Emergency
- Transplants
- Orthopedics



+100K patient
encounters
2021

TecSalud Foundation **+19K**
benefited patients per year



Tecnológico
de Monterrey



Universidad
Tecmilenio®



TecSalud
Sistema de Salud del
Tecnológico de Monterrey



Academic Excellence

Education Innovation

Entrepreneurship

Global Vision

Relationship with Industry

Ability to Execute

Impact of our alumni

In 75 years they have...

Created **2.8** million **jobs** worldwide which represents almost 4 years of new jobs created by the Mexican economy

Started **208,974** **businesses**
(41% of EXATEC (alumni) has created a company)

Generated **revenue** for **\$223 mil** USA billion
equivalent to **19%** of Mexico's economy for one year

Contributed with **1.3** million hours of **volunteering** a month

Started **30,085** **non-profit organizations**

September 2018



International networks and consortia



APRU

Association of Pacific Rim Universities (APRU)

(60 universities including UC Berkeley, UCLA, UBC among others)



Latin American Universities Consortium

LA TRÍADA

Alliance for higher education and research in Latin America (PUCC, UNIANDES y Tec de Monterrey)



The European Consortium of Innovative Universities



Worldwide Universities Network
(25 universities including UAlberta, MaastrichtU, ULeeds among others)

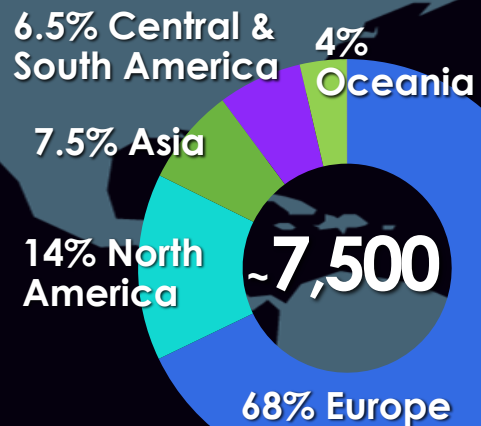
U21

UNIVERSITAS21
(27 universities including UEdinburgh, Melbourne, NUSingapore, among others)

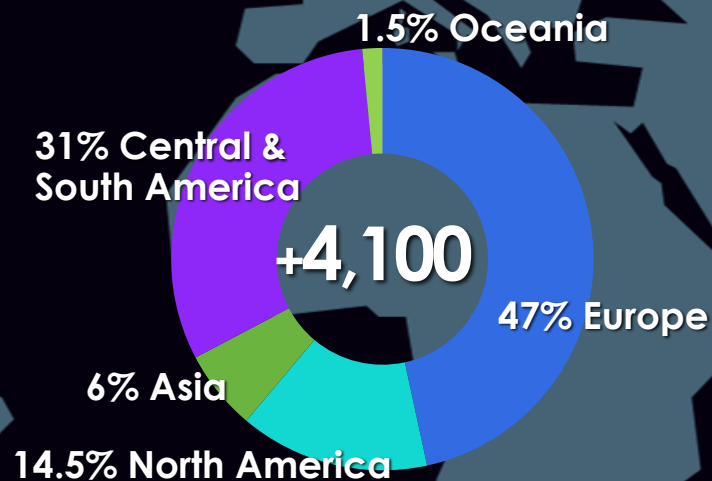
Internationalization 2019

Pre-pandemic

Outgoing students



Incoming students



Mobility in

+60 countries with **+400** universities

International Faculty

775 professors from **69** countries

University + Sr. High School faculty

40% full time university faculty with a degree from **~70** countries

Internationalization 2021

VIRTUAL



Global Shared Learning
~5,000 Tec students
with **virtual international experience** in
31 countries **120** universities



Despite the pandemic

TRADITIONAL

2,117 Outgoing students

+36 countries

1. Spain
2. Germany
3. France
4. USA
5. United Kingdom

488 Incoming students

+27 countries

1. Germany
2. Spain
3. France
4. Sweden
5. Netherlands

Teaching



Research



Outreach



11,796 (Ago 2021) incoming undergraduate students



89.9 /100 GPA

33 countries

2,031 Sr. High Schools

448 cities or towns in Mexico

+50% financial aid

9.9% 1st generation

46%
outstanding
students
(+10pp)



líderes del mañana

2021 eighth generation was integrated

~1,000

Students

539

Alumni

Leaders of Tomorrow

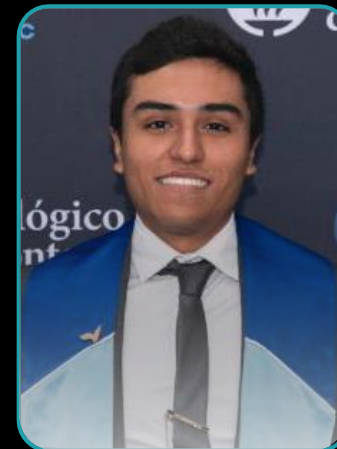
fund to maintain 1,000
full scholarships

Total amount

56%



Itzel Gaona,
graduated in **Law**
in 2021, from
Ziracuaretiro,
Michoacán and
today is the **mayor**
of her town.



Angel Noel Briones,
graduated in **Business
and Technology
Information** in 2019, from
Nuevo León today is the
**founder of Fundación:
Jóvenes Unidos por la
Tecnología (Young
People United for
Technology)**



TEC21

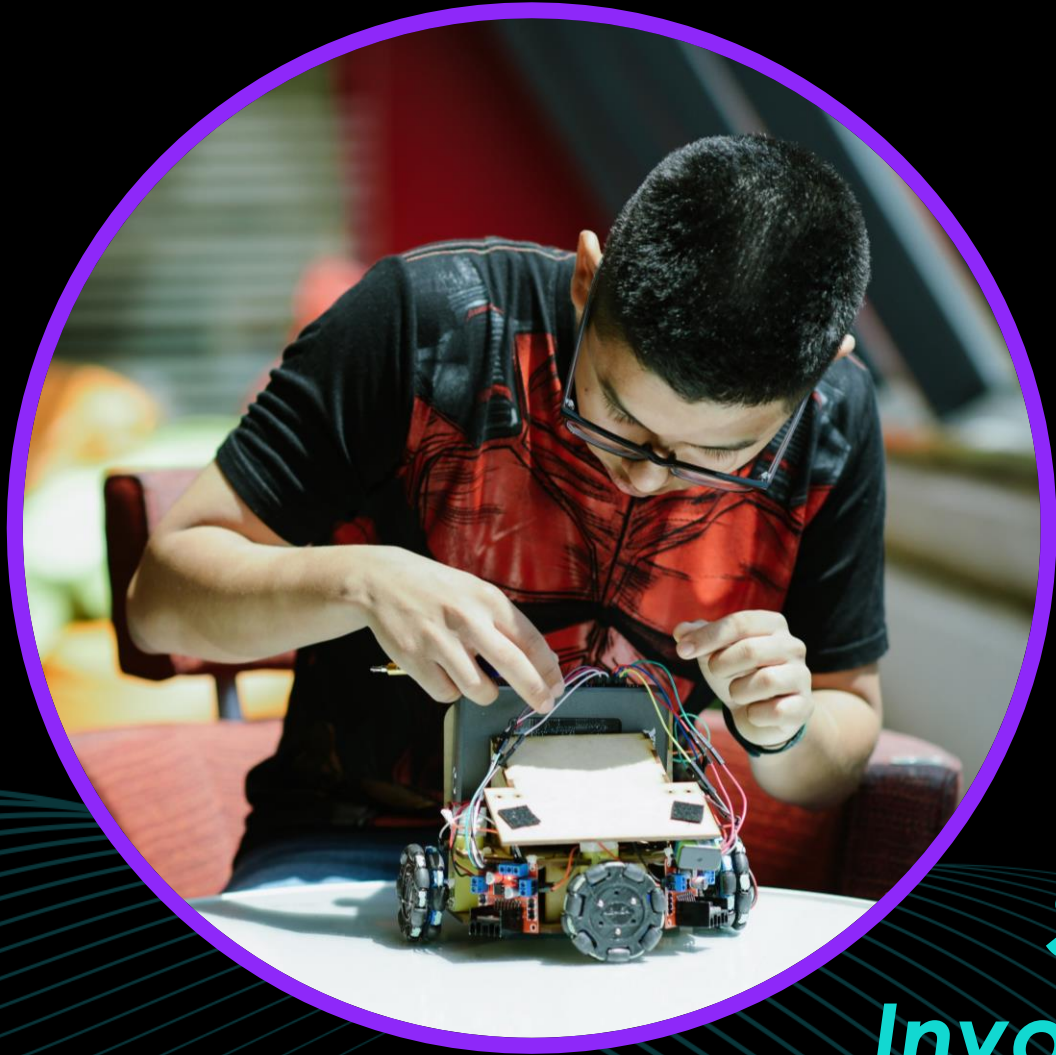
EDUCATIONAL MODEL

Universities are currently preparing students to:

- Work in **companies** or functions that don't yet exist
- Use **technologies** that haven't been invented
- Solve **problems** we don't even know are problems yet

Karl Fisch





Challenges

***“Tell me and I forget.
Show me and I remember.
Involve me and I understand”.***

Chinese proverb

Our Faculty



+9,800
professors

+7,300

Undergraduate
and graduate

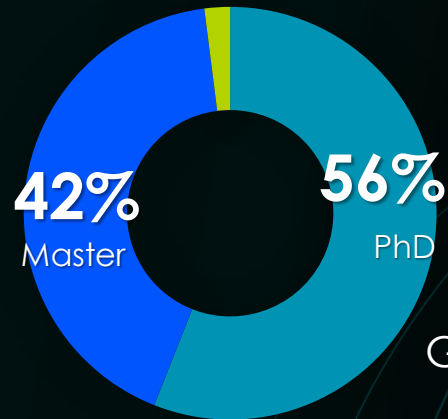


+2,500

Sr. High School

1,973

undergraduate
and graduate
full-time professors



13%
Graduates of **foreign**
Top200 universities
(QS, THE, ARWU)



Faculty of Excellence

To continue with the attraction, development and strengthening of our faculty.

Recruiting **100 top notch faculty** in strategic areas.

New hires



Raj Sisodia

Leading professor of Conscious Enterprise Center

- Co-founder and leader of the global movement of Conscious Capitalism
- Distinguished Professor, Babson College
- Author of 11 books and +100 articles



Michael Fung

Director of Institute for the Future of Education

- Chief Data Officer for *SkillsFuture*, Ministry of Education Singapore
- Former member of the Directive Team of *The Hong Kong University of Science and Technology*



Marc Madou

Research professor in Nanotechnology

- Global leader in Nanotechnology
- 33 patents and 3 enterprises
- Author of 11 books and +200 articles



Per-Olof Berggren

Research professor in Diabetes for the Institute for Obesity Research

- Member of *Nobel Assembly and Royal Academy of Sciences*
- 69 patents



Alejandro Echeverri

Professor of Urbanism

- Transformation project *Medellin, Colombia*
- Professor at Harvard Graduate School of Design
- Obayashi Award, one of the most important in Asia



Dhruv Grewal

Distinguished professor in Marketing and Retail

- Distinguished Member of the Academy of Marketing Science
- Author of +180 articles

International interest in our Tec21 Model

University World News  THE GLOBAL WINDOW ON HIGHER EDUCATION

Monterrey Tec's radical revamp to teach competencies



The challenger university landscape

Mario Barosevic
Emerge Education



Established institutions that **have managed to innovate** with existing structures and **create unique student experiences** and outcomes propositions.

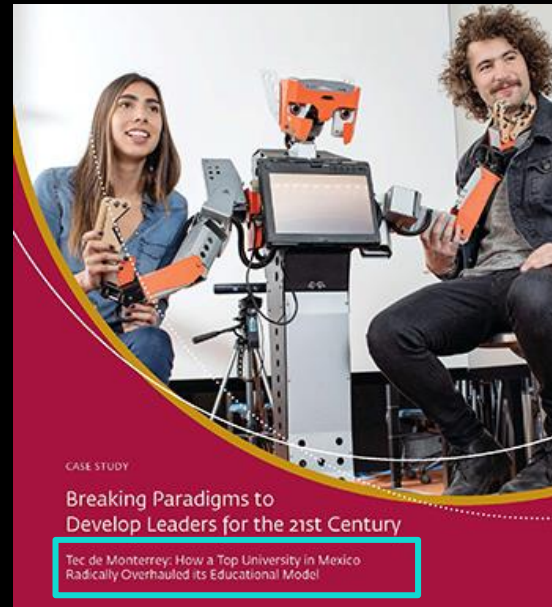
Tec de Monterrey: How a Top University in Mexico Radically Overhauled its Educational Model



Tec21 at BBC in London



so they can run tours themselves.



CASE STUDY

Breaking Paradigms to Develop Leaders for the 21st Century

Tec de Monterrey: How a Top University in Mexico Radically Overhauled its Educational Model

LATIN AMERICA 2019

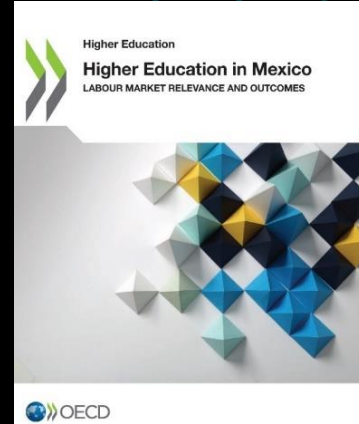


Challenged to rise

Active learning based on tasks set in the real world builds skilled graduates and good citizens ready to face a world of change. **David Garza-Salazar** says...

...more than half of learning will be based around challenges rather than traditional lecture-based courses

...the global state of the art in engineering education



Book: Universities as Engines of Economic Development



Case 3.3 Tecnológico de Monterrey- Tec21 Educational Model. Integrating the development of knowledge and intellectual, technical, and social skills with attitudes and values, through challenge-base and flexible learning experiences.

MIT School of Engineering

Tec de Monterrey, as part of emerging leaders in engineering education

...has recently developed the Tec21 curriculum that is structured around a series of design-based challenges. Each challenge is associated with a set of 'prior competencies'.

International Conference on Educational Innovation, CIE

8th. edition in 2021

5,540

participants
262 face-to-face

753

institutions

40

countries

33 rectors and presidents have participated since 2014

1. Arizona State University, USA
2. Northeastern University, USA
3. Babson College USA
4. Harvey Mudd College USA
5. University of Washington, USA
6. UT Austin, USA
7. San José State University, USA
8. Georgia Tech, USA
9. Southern New Hampshire, USA
10. University of Technology and Design, Singapore
11. U of Auckland, New Zealand
12. The University of Edinburgh, Scotland
13. Maastricht U, Netherlands
14. U of Twente, Netherlands
15. University of Alberta, Canada
16. The University of British Columbia, Canada
17. Instituto de Empresa, Spain
18. U de Mondragón, Spain
19. Universitat Jaume I, Spain
20. Universidad de Deusto, Spain
21. U of Cape Town, South Africa
22. U del Desarrollo, Chile
23. Pontificia U Católica de Chile
24. Universidad Estadual de Campinas, Brasil
25. U de los Andes, Colombia
26. ESPOL, Ecuador
27. U del Valle, Guatemala
28. UNAM, México
29. El Colegio de México
30. U de Guadalajara, México
31. UANL, México
32. Universidad Tecmilenio, México
33. U Veracruzana, México



Carl Wieman
Nobel Prize
in Physics



Ma. Victoria Angulo
Minister of Education
of Colombia



John Couch
Apple Vice
President of
Education



Jeff Selingo
Bestsellers
Author de New
York Times News



Marina Gorbis
Director, Institute
of the Future



Thomas Frey
Futurist, author of
"Communicating
with the future"



Dean Keamen
Founder of First
Challenge



Leonardo Garnier
Former Minister of
Education of Costa
Rica

Teaching



Research



Outreach



Research

Research agreements
with ~20 universities **Top200**

617 research professors (SNI)

1,961 scientific publications in 2021

+400 students in scientific masters

+600 PhD students



Massachusetts Institute of Technology



**Endowed Research Chair
Federico Baur**

- Former director of Research Center IBM ALMADEN
- 107 patents in USA

H. Kumar Wickramasinghe



- World leader in Nano Sensors, Nano MEMS, Nano Devices
- 33 patents. Created 3 companies
- Editorial Board Member Microsystems and Nanoengineering of Nature

Marc Madou



- Worldwide scientist in endocrinology & function/transplant of pancreatic cells.
- 69 patents
- Member of the Nobel Assembly & Royal Academy of Sciences.

Per Olof Berggren



Tec en Top50

- Business & Management

Tec en Top100

- Accounting & Finance
- Engineering, Mechanical, Aeronautical & Manufacturing
- Art & Design

Tec en Top150

- Computer Science & Information Systems
- Economics & Econometrics
- Engineering, Electrical & Electronic
- Education
- Modern Languages
- Architecture, Built Environment

Tec en Top200

- Agriculture & Forestry
- Engineering - Civil & Structural
- Engineering - Chemical
- Law
- Communication & Media Studies
- Politics & International Studies

EGADE Business School



Business Masters Rankings 2021

Full-Time MBA in innovation & Entrepreneurship¹

#51 mundial

#1 LATAM



Master in Business Management²

Top 40 mundial

#1 LATAM



#21 Empleabilidad Global

Master in Finance³

Top 39 Mundial

#1 LATAM



#16 Empleabilidad Global

High-impact research institutes

3 institutes

Interdisciplinary research
Innovation
High-impact entrepreneurship



focus on solving
societal problems

Institute for
the Future of
Educación



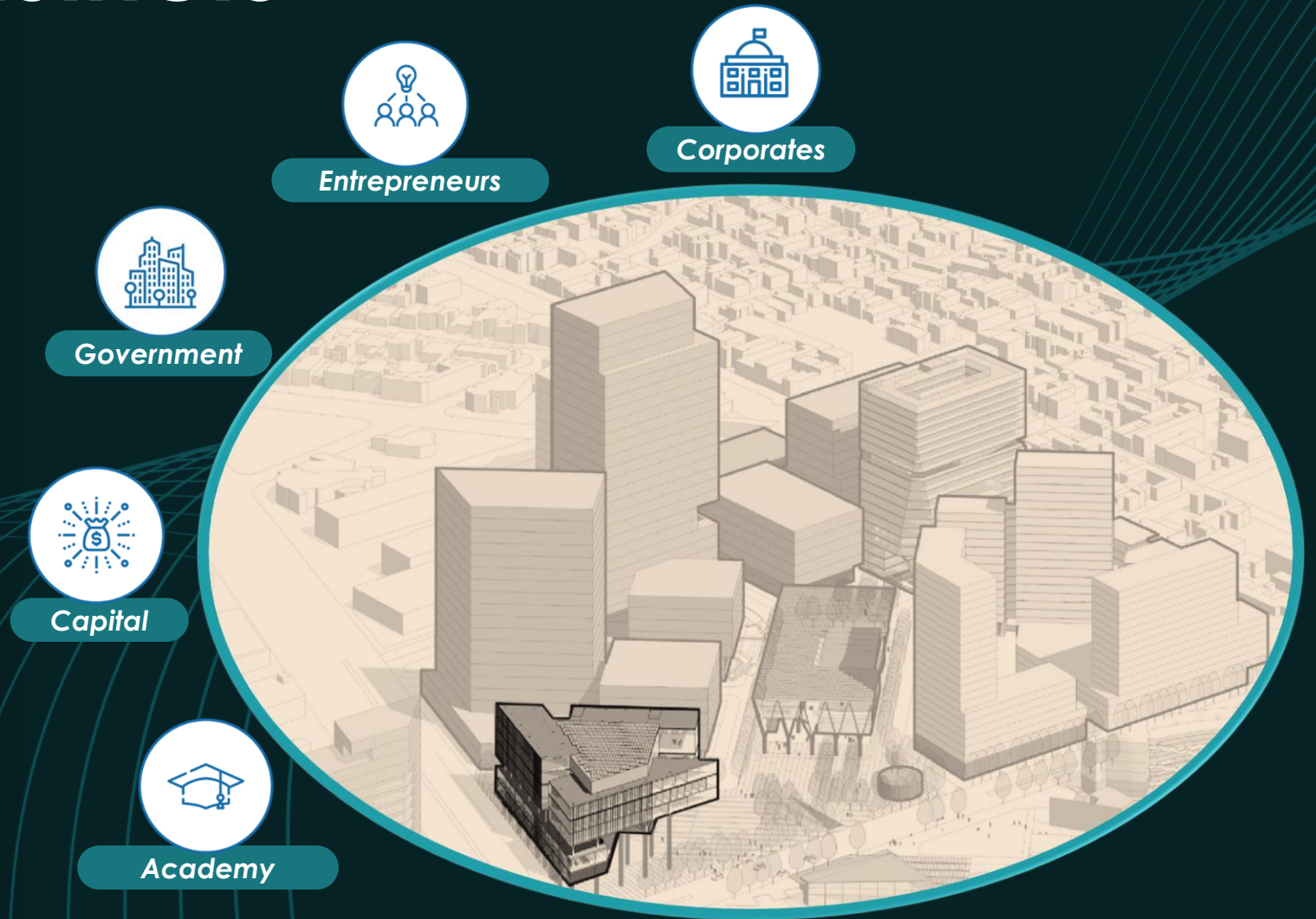
The Institute
for **Obesity**
Research



The Institute of **Advanced
Materials** for **Sustainable
Manufacturing**



Innovation districts



Innovation culture

4 principles for an innovation culture



Community
with purpose



Value
constellations



Intelligible
exploration



Knowledge
capitalization
EXPLOITATION

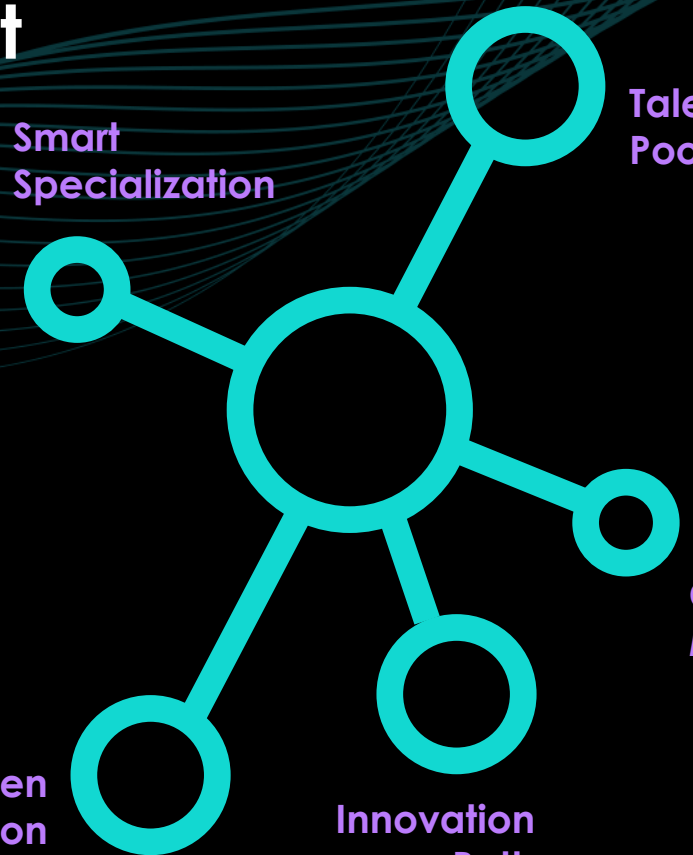
5 strategic axes

To involve an innovation
district



Smart
Specialization

Talent
Pool



Critical
Mass

Open
Innovation

Innovation
Path









VENTURE
CAFÉ



MONTERREY

Entrepreneurship

Creation and development of new companies

+900

companies in business incubation processes 2021

+3,500

jobs created by the entrepreneurship environment in the last 5 years

+700

companies graduated from incubation in 5 years



21 incubators

1,500 mentors

41%

of students each year take **entrepreneurship courses**

INCmty

The Biggest **Entrepreneurship Festival** of Latin America,

~10,000

participants each year



Richard Branson
Founder of the Virgin Group



Kevin O'Leary
"Shark Tank" Dragons' Dean



Uri Levine
Co-founder of WAZE



Rutopía

Hult Prize 2019

Tec entrepreneurs project to **help indigenous communities** in Mexico, with fair and sustainable tourism.

Teaching



Research



Outreach



Conscious Enterprise Center



Raj Sisodia

Distinguished University Professor of Conscious Enterprise (Babson College, Massachusetts)

Co-founder and leader of the global movement of Conscious Capitalism, co-founder and chairman emeritus of Conscious Capitalism Inc.

Our purpose

Develop a **new consciousness** in leaders, companies and organizations, that contributes to human flourishing and leads to a more **prosperous, fair, and inclusive society**.

Launch of the
**Conscious Enterprise
Center**



Social impact

+800

social impact initiatives
per year

- Education
- Health & wellbeing
- Reduction of inequalities
- Sustainable cities
- Endo of poverty



**Free digital
education**

+300,000 people in
Tec courses

(Coursera, EdX, PrepaNet,
Virtual Learning Center)

Each semester **30%** of students participate **in projects
with a social focus.**



+6,000 members of the Tec
community dedicate **~55,000**
hours of volunteering

Social initiatives

Examples of social impact initiatives

⇒ **Low cost
prosthetics**
Guadalajara



+400 prosthetics
delivered in 2021

+40 millions
pesos in savings
for families and state

⇒ **Social
inclusion**
Chiapas



**45 Impacted
families**

**30% Increase
in sales**

⇒ **Urban and social
transformation**
Campana
Altamira



Improvement of spaces
and public schools of
the polygon

**Strengthening
23 public schools**



*"Innovation seminar for
Municipal Public
Management"*

+500 participants
300 towns
61 mayors

17 neighborhoods adjacent to the campus 450 hectares (Campus 50 hectares)





Teaching • Research • Outreach

STRATEGIC
PLAN

2025

RESEARCH

3

“i”

INNOVATION

INTERNATIONALIZATION

Top Notch Talent

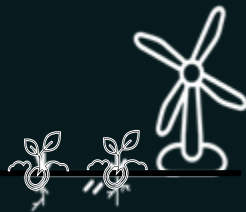
HIGH TECH - HIGH TOUCH

INNOVATION

TEC21
EDUCATIONAL MODEL



SUSTAINABILITY AND WELLBEING



RESEARCH

Institute for the **Future of Education**



The Institute for **Obesity Research**



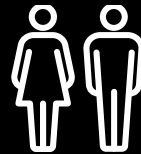
The Institute of **Advanced Materials and Sustainable Manufacturing**



Entrepreneurships



TALENT



2025

INTERNATIONAL



Mexico



Latin America



World



#170
of the world

#30
private of the world

#26



1. MIT
2. Stanford
3. UCLA
4. U of Sydney
5. Harvard

6. Tsinghua
7. Oxford

26. Tecnológico de Monterrey

#4



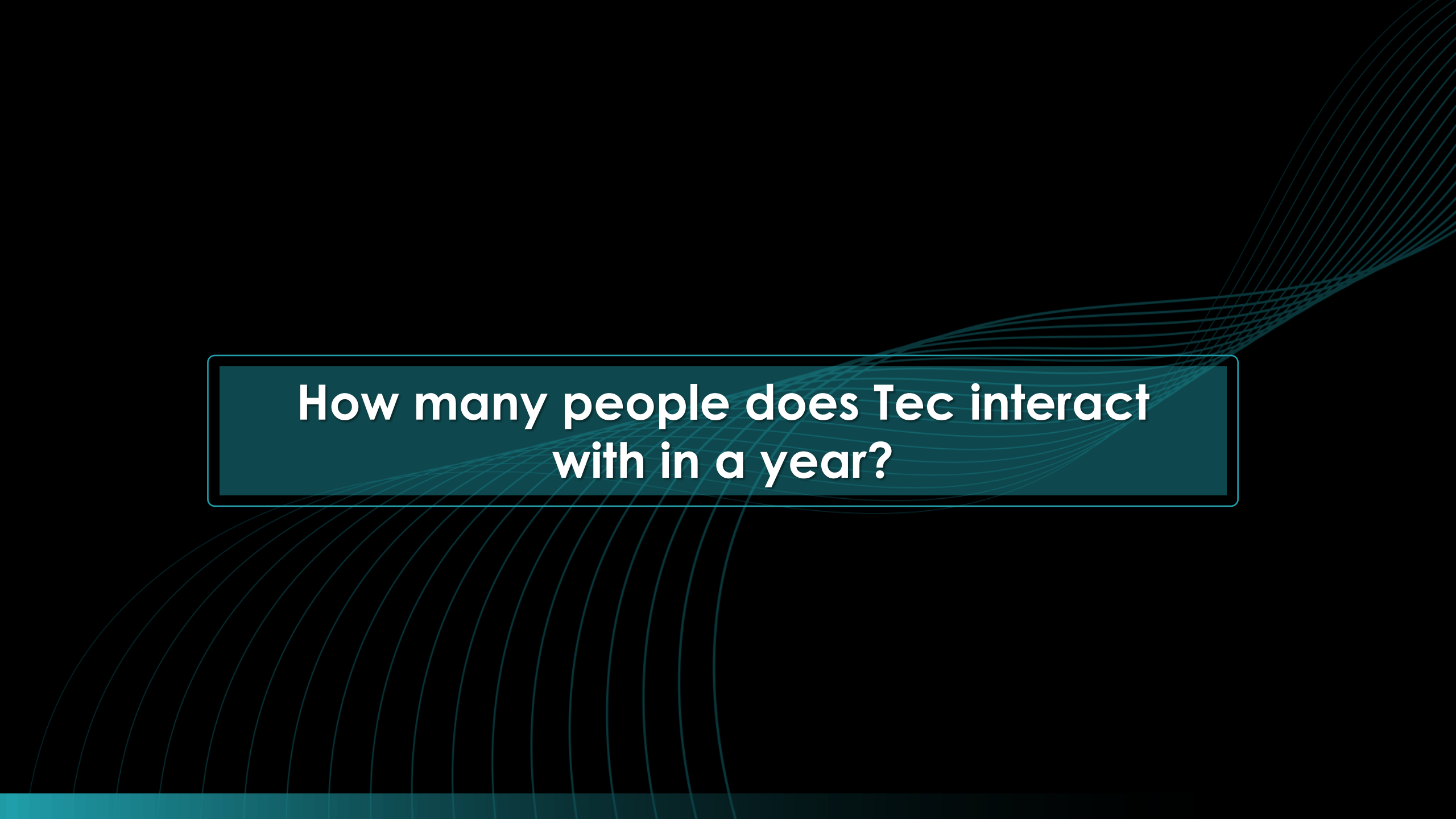
1. Pont Univ. Católica de Chile
2. Univ. Sao Paulo (Brasil)
3. Univ. Estadual Campiñas (Brasil)
- 4. Tecnológico de Monterrey**
5. Univ. Fed. São Paulo, UNIFESP (Brasil)



#6 undergrad
entrepreneurship programs

1. Univ. Houston
2. Babson College
3. Brigham YoungU
4. Univ. Texas Austin
5. Univ. Southern Calif

6. Tecnológico de Monterrey

The background features a dark teal color with a series of thin, light teal wavy lines that create a sense of motion and depth. A central teal rectangular box with rounded corners and a thin white border contains the text.

**How many people does Tec interact
with in a year?**



Tecnológico de Monterrey

- 94,400** Students
- 21,100** Professors and collaborators
- 105,000** People in continuing education courses
- 301,000** People in free digital courses
- 330,000** Alumni

851,400



Tecnológico de Monterrey

- 94,400** Students
- 21,100** Professors and collaborators
- 105,000** People in continuing education courses
- 301,000** People in free digital courses
- 330,000** Alumni



Tecmilenio

- 59,290** Students
- 7,780** Professors and collaborators
- 28,700** People in continuing education courses
- 141,200** Alumni

1,080,200



Tecnológico de Monterrey

- 94,400** Students
- 21,100** Professors and collaborators
- 105,000** People in continuing education courses
- 301,000** People in free digital courses
- 330,000** Alumni



Tecmilenio

- 59,290** Students
- 7,780** Professors and collaborators
- 28,700** People in continuing education courses
- 141,200** Alumni

1,088,870



TecSalud

- 3,100** Collaborators
- 108,000** Patient encounters
- 19,400** Patients benefiting from social programs of TecSalud Foundation



Tecnológico de Monterrey

94,400

Students

21,100

Professors and collaborators

105,000

People in continuing education courses

301,000

People in free digital courses

330,000

Alumni

153,000

Parents



Tecmilenio

59,290

Students

7,780

Professors and collaborators

28,700

People in continuing education courses

141,200

Alumni

83,700

Parents

1,238,820



TecSalud

3,100

Collaborators

108,000

Patient encounters

19,400

Patients benefiting from social programs of TecSalud Foundation



650

Members of the board



Tecnológico de Monterrey

- 94,400** Students
- 21,100** Professors and collaborators
- 105,000** People in continuing education courses
- 301,000** People in free digital courses
- 330,000** Alumni
- 153,000** Parents



Tecmilenio

- 59,290** Students
- 7,780** Professors and collaborators
- 28,700** People in continuing education courses
- 141,200** Alumni
- 83,700** Parents

1,486,320



TecSalud

- 3,100** Collaborators
- 108,000** Patient encounters
- 19,400** Patients benefiting from social programs of TecSalud Foundation



Sorteos Tec

130,000 Volunteers



650 Members of the board



That brings us to

+1,000,000

people each year





TECNOLÓGICO DE MONTERREY



D.R.© Instituto Tecnológico y de Estudios Superiores de Monterrey, México. 2022
Ave. Eugenio Garza Sada 2501 Sur Col. Tecnológico C.P. 64849
Monterrey, Nuevo León | México