

 **Innovación, Ciencia
y Tecnología**





1. Jalisco in a nutshell

Facts about Jalisco

Total population: total population in Jalisco is **8,348,151 inhabitants**

Strategic sectors:

1. IT and electronics
2. Advanced manufacturing contractors
3. Agro-industries
4. Pharma/health
5. Digital creative industries (CCD)
6. Others: furniture, jewelry, clothing, tourism, etc.

GDP: 198, 612 million GDP (*PPP)

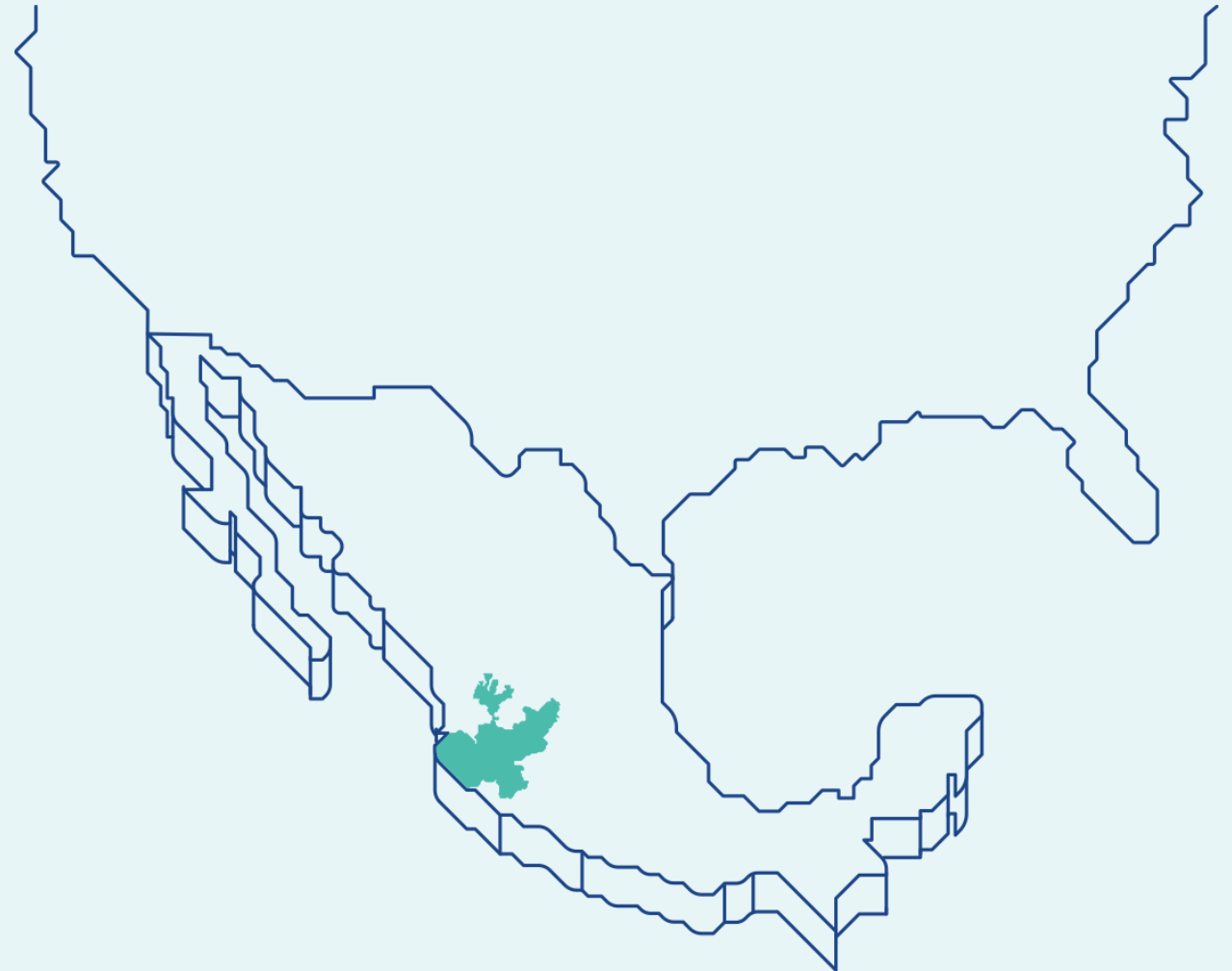
Foreign investment: in 2021 Jalisco received **763.1 million dollars of Foreign Direct Investment (FDI)**, which places the entity second in the national ranking, only behind the state of Nuevo Leon, with 921.7 million dollars

Agri-food leader: Jalisco contributes on average **11% of the National GDP in the primary sector**, the highest in the country. It is currently a leader in the production of staple foods: maize, agave, sugar cane, milk, eggs, meat, honey, etc.

Other products: avocado, peppers, chia seed, persian lemon, blueberries and raspberries, tamarind, etc.

***PPP:** Purchasing Power Parity

Source: Instituto de Información Estadística (IIEG) y Geográfica and SEDECO.



Location

Jalisco is close to the United States

- **1,074 km of highway infrastructure** leading towards Nuevo Laredo, Tamaulipas
- **Los Angeles, California** is only **2,104 km away**; that is less than 3.5 hours on a direct flight from Guadalajara
- The distance by railroad to Mexico's other main cities is also very short: only **600 km to Mexico City** and **1,400 km to Monterrey**
- Jalisco's capital is **300 km from the Port of Manzanillo**, which:
 - Is three hours away by highway
 - Has **35 sea transportation lines** and it maintains commercial relationships with **57 ports in exports** and **67 in imports** focus on containerized cargo
- The exit to the Pacific through Lázaro Cárdenas Port is around **500 km away** and approximately **1,000 km from the Atlantic** through the Port of Veracruz
- Jalisco has **2 international airports** that offer direct or connecting flights to any destination

Territorial extension: Jalisco has an area of 78,588 km², organized in 12 regions and 125 municipalities, being the 7th state out of 32 with the largest extension.

Source: Instituto de Información Estadística (IIEG) y Geográfica and SEDECO.





2. Innovation, Science and Technology in Jalisco

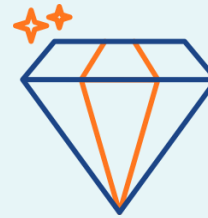
IS&T: strategic pillars of economic and social development



**Investment
attractiveness** of
high-tech industries



Talent development,
attraction and
retention



**Higher value-added
economy**

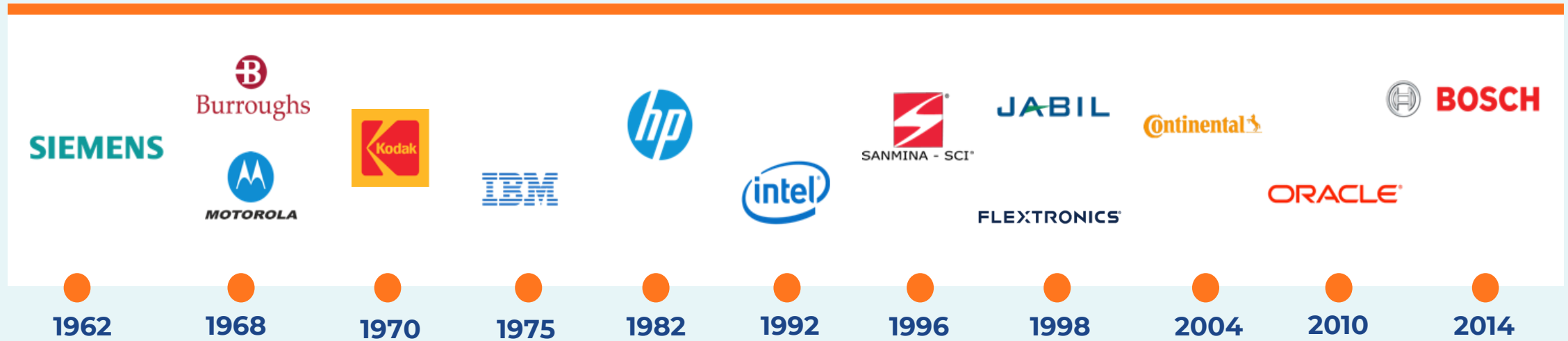


**Improvement of
quality of life in
Jalisco**



3. Milestones of IS&T in Jalisco

High-tech industry



Milestones of IS&T in Jalisco 2019-2022

Creation of the Ministry of Innovation, Science and Technology (SICyT)

Creation of Plataforma Abierta de Innovación (PLAi)

Birth of the Undersecretariat of Higher Education

First place in patent applications at national level



First edition of Jalisco Talent Land

Opening of Red de Centros de Innovación y Emprendimiento (REDi)

- Creation of the Law of Higher Education
- Creation of the Law of Entrepreneurship

Entrepreneurs

Funding

Government



Jalisco Innovation and Entrepreneurship Ecosystem

Clusters

Research
centers



Corporations

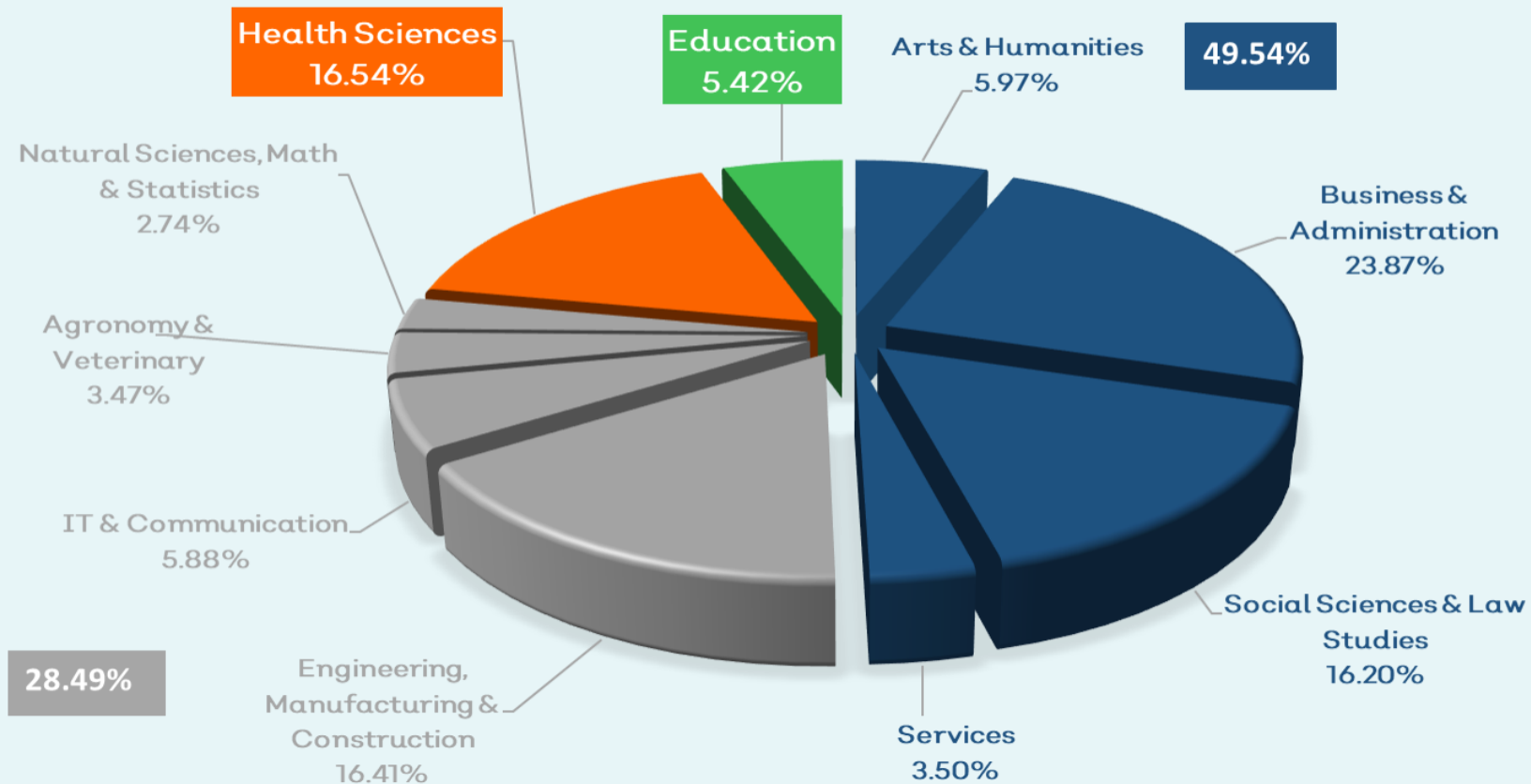
Universities



4. Strategic areas of SICyT Undersecretariat of Higher Education

Higher Education in Jalisco

Students enrolled in Higher Education programs (2021-2022) **285, 423**



Higher Education in Jalisco



Strategic Programs:

- Scholarships and Incentives for the Strengthening of Talent in the Higher Education System:
 - Lifelong learning opportunities
 - Outstanding young students
 - University professor training and development programs
 - International cooperation for the promotion of educational innovation

- New strategy of development and attraction of highly skilled and educated talent for IT and electronics sector

Ecosystem of Higher Education in Jalisco

State Universities and Colleges



Educational institutions linked to the Ministry of Innovation, Science and Technology

The Jalisco Consortium for Higher Education Cooperation and Internationalization (Consortio Jalisco)



The Jalisco Consortium is composed of representatives of the public university (UdeG), and the most renowned private universities in the region + SICyT

Private Universities



In Jalisco 187 private universities are incorporated in the Higher Education system coordinated by Ministry of Innovation, Science and Technology



4. Strategic areas of SICyT

Innovation and Entrepreneurship

Innovation and Entrepreneurship

Red Jalisco



**More than 12,000
public sites with free
Internet access**



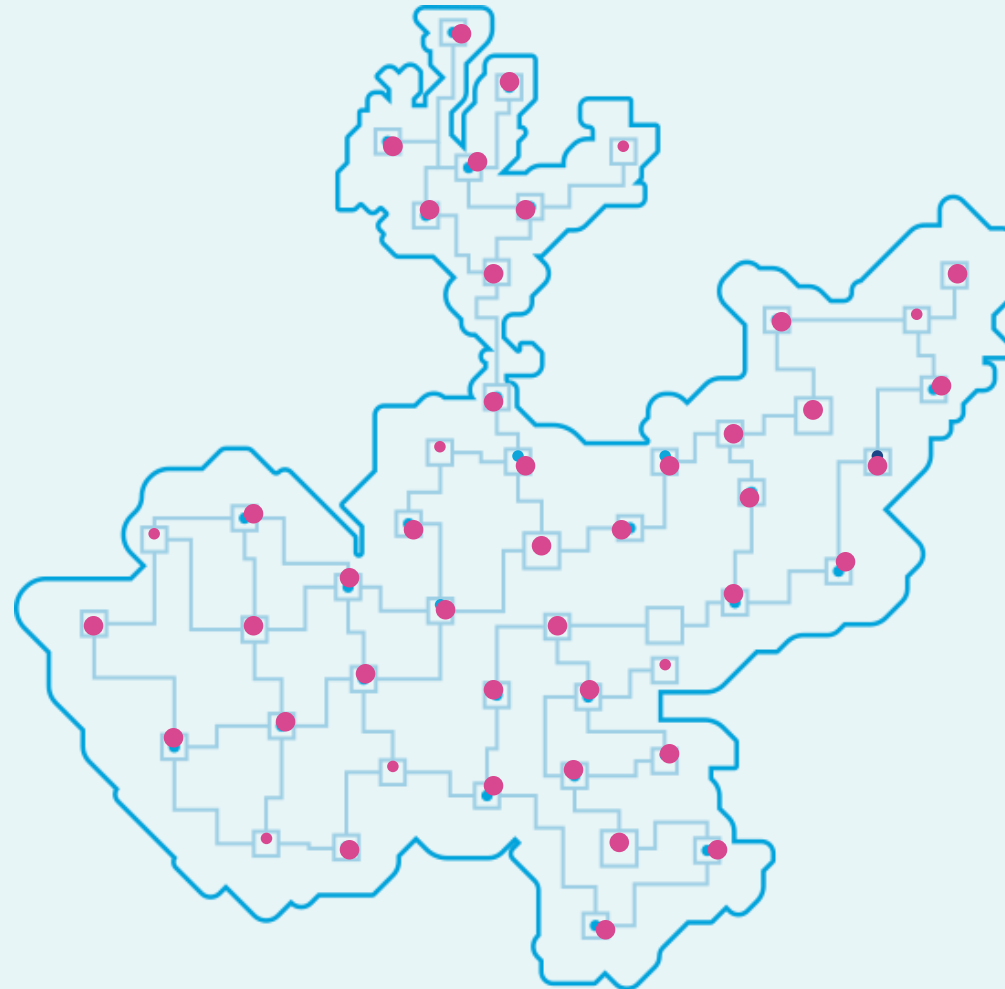
Innovation and Entrepreneurship

Open Platform of Innovation (PLAi)



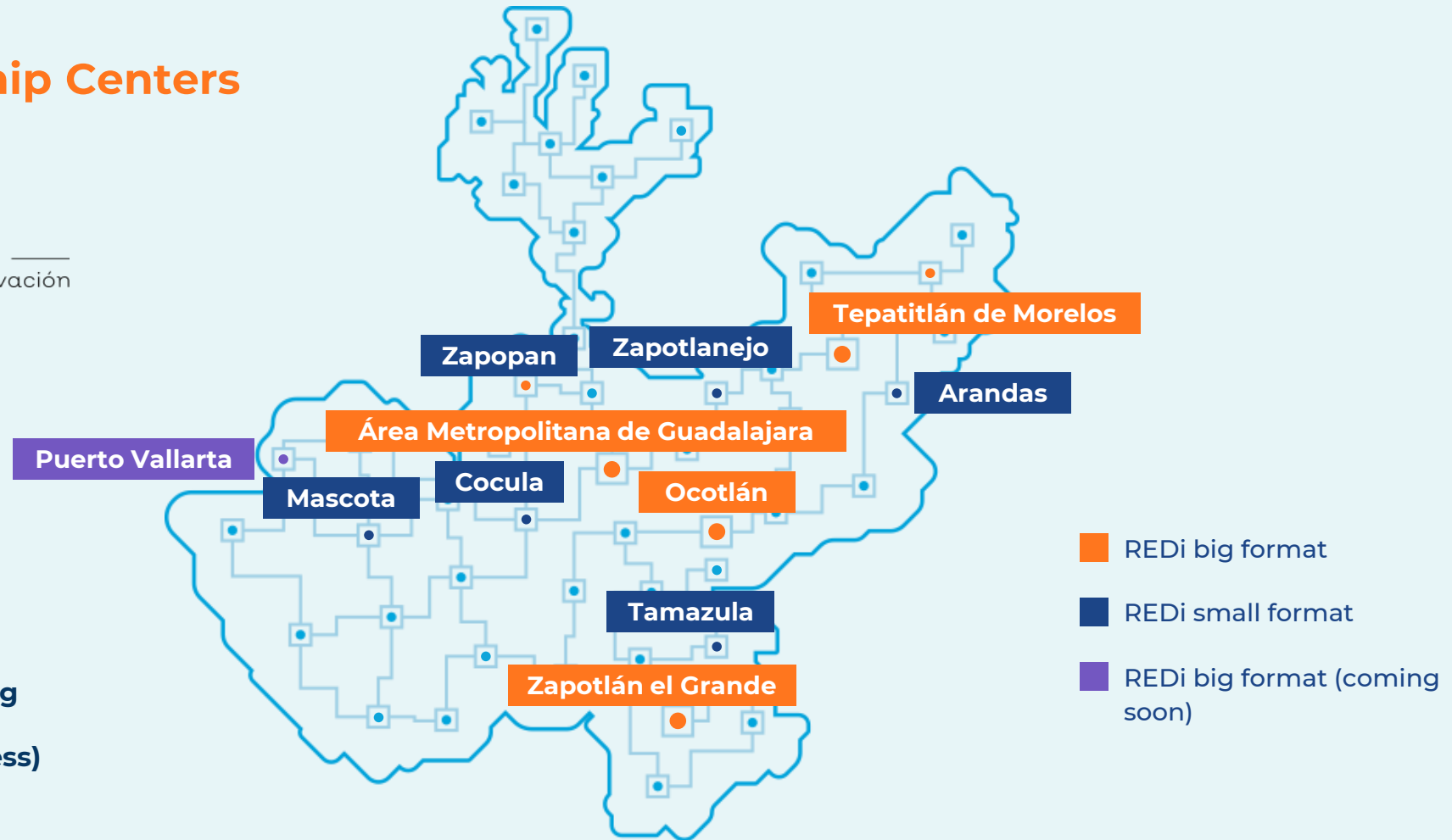
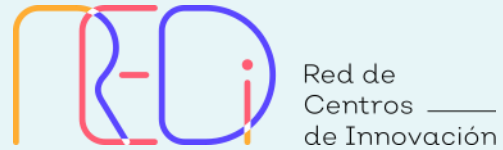
Virtual and hybrid programs to train and to develop:

- Technical skills
- Soft skills
- Entrepreneurs
- SMEs



Innovation and Entrepreneurship

Innovation and Entrepreneurship Centers Network (REDi)



- Public co-working and co-creation spaces (free access)
- Training
- Mentorship

Guadalajara Metropolitan Area Startups Ecosystem

Fintech



Healthtech



Marketplaces



Proptech



Cripto



Insurtech



Traveltech



Cleantech



Sporttech



Materials



Guadalajara Metropolitan Area Startups Ecosystem

Software



Mobility/ Logistics



Legal technology

EasyLex

Artificial Intelligence



Robotics



Tech for entertainment



Edtech



MIT REAP* (developing)

We collaborate with these actors:



**UNDERGRADUATE
STUDENTS**



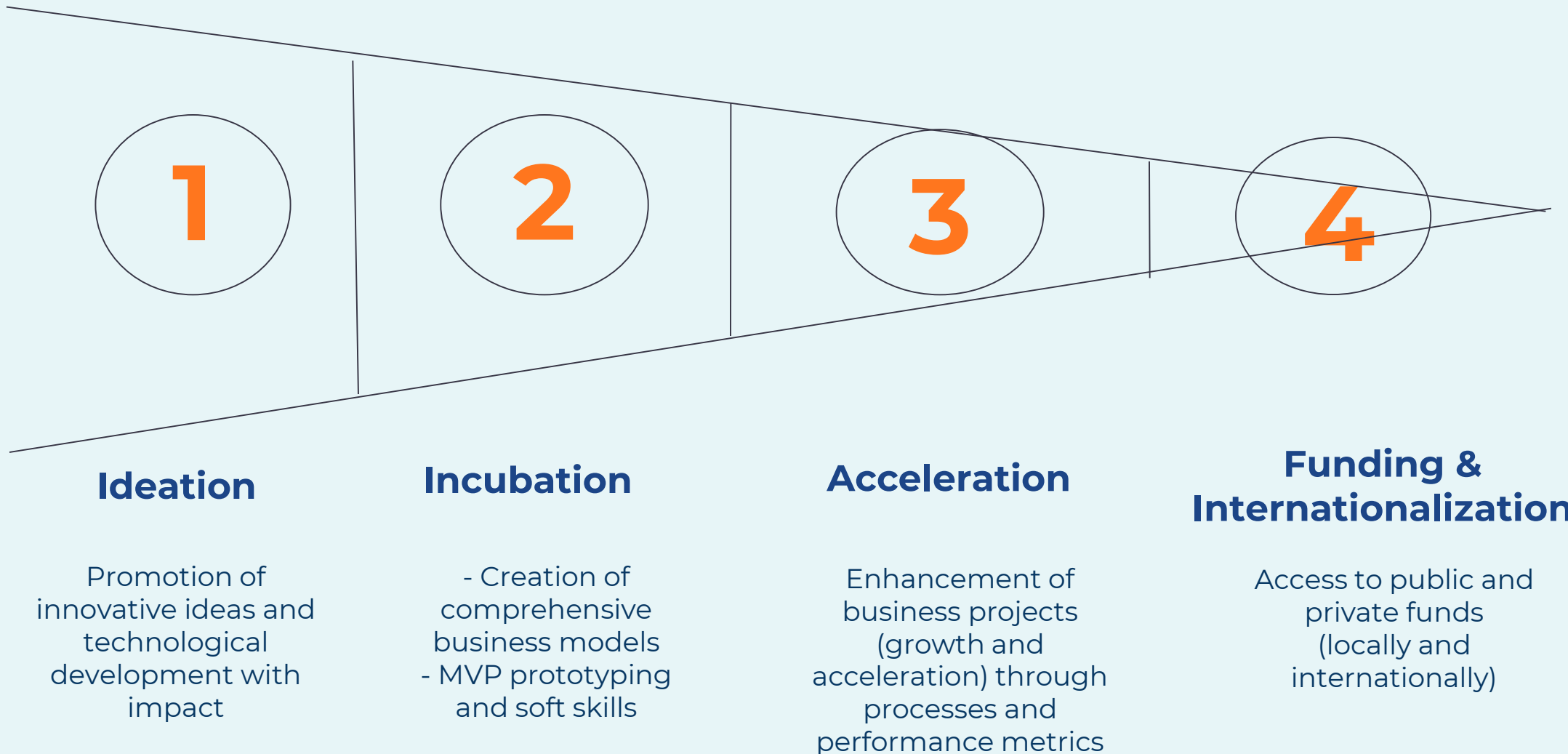
**HIGH IMPACT/
SCIENTISTS**



**INNOVATIVE
SMEs**

MIT REAP

INNOVATION ROADMAP





4. Strategic areas of SICyT

Science and Technological Development

Research Centers

9 Public institutions



55 Private institutions



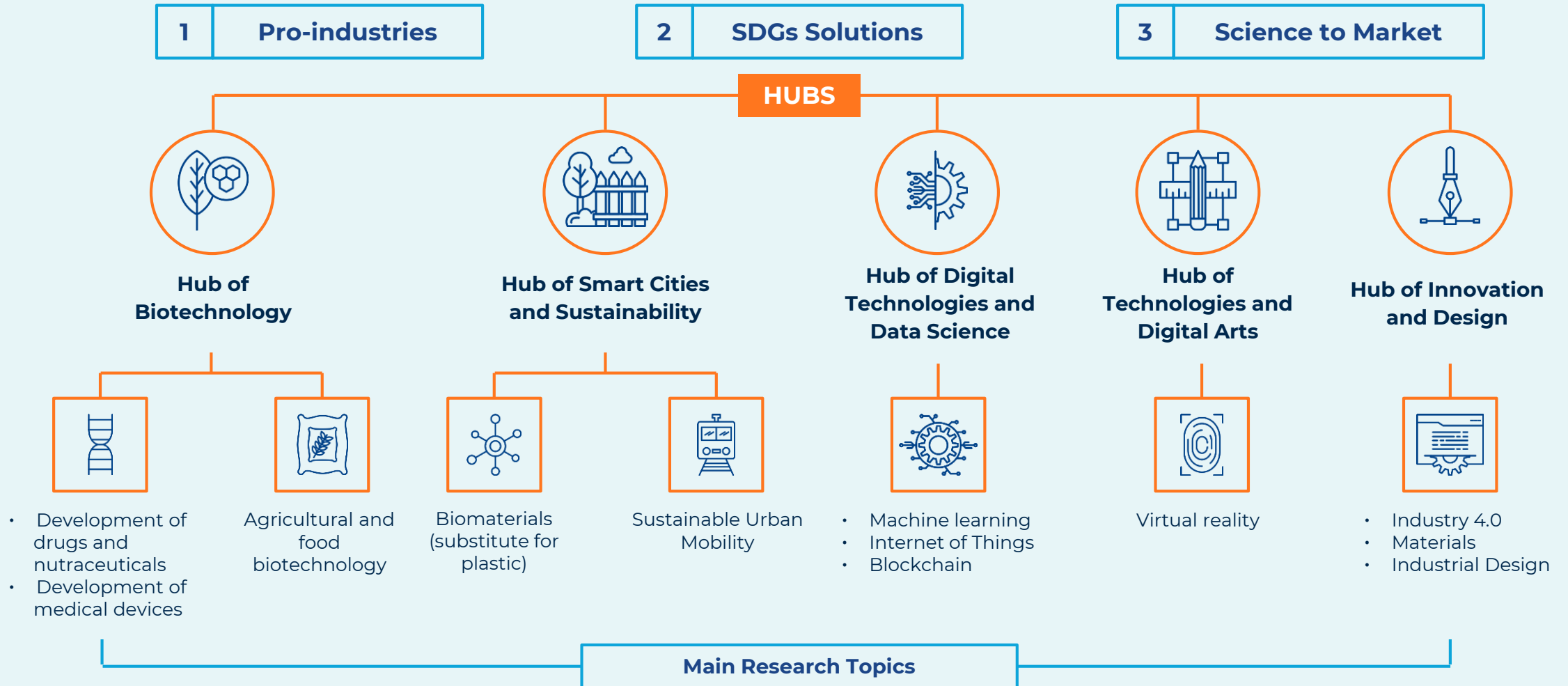
2040 researchers in the National System of Researchers (SNI)**

Source: INEGI (2021) Available on <https://www.inegi.org.mx/app/mapa/denue/default.aspx>,
Last updated on June 21st 2022

*Logos are not in any particular order and it is only to name a few of them.

**Source: CONACyT (2021) Sistema Nacional de Investigadores: Padrón de beneficiarios.
Available on <https://www.conacyt.mx/Información-de-Ciencia-y-Tecnología.html>

High impact Science and Technology public investment



Technology transfer in Jalisco



Promotion of IP in
2014 - 2022



Diagnosis and support
for IP protection



Science to Market:
TRL + IRL

- **12 projects completed** in 2020-2021
- **Investment 20 MDP (2021)**
- **12 projects in action** in 2021-2022
- **Investment 32 MDP (2022)**



Jalisco holds the first place in patent
applications nationally with a total of 227
in 2021

Jalisco Innovation and Entrepreneurship Ecosystem

Entrepreneurs

Government

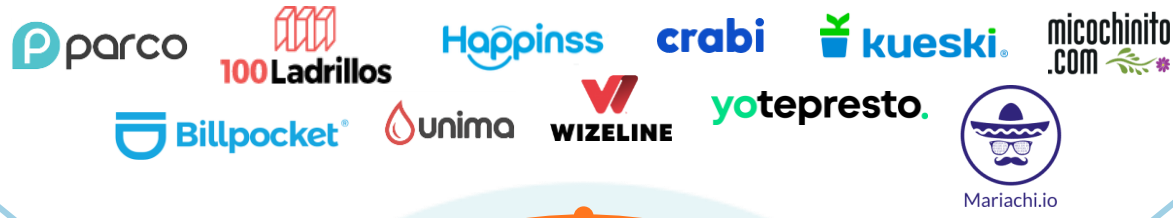
Funding

Research centers

Clusters

Universities

Corporations





ANNEX

Innovation and Entrepreneurship

REDi Entrepreneurship programs 2021-2022



+10 innovation and entrepreneurship centers with operations in the region

FARO

+1,600 participants

Training and Acceleration Program for MSMEs

Mueble Next

100 enterprises

Acceleration, Innovation and Sustainability Program designed for MSMEs in the furniture sector for the enhancement of production chains

+6,200 people reached through innovation and entrepreneurship programs

TIC JALISCO

501 teams

Talent and Innovation Competition of the Americas, in cooperation with the Young Americas Business Trust(YABT)

Innovation Tour

1,347 participants

Series of knowledge events promoted by the Network of Innovation Centers (REDi), to bring innovation to 9 municipalities in Jalisco

+1,200 events, workshops and training & mentorship activities

JalisConecta

1,100 participants

Forum that seeks to promote commercial operations of Mexican SMEs and startups abroad

Innovation Journey

952 participants

Series of specialized events designed to spread, inspire, learn and co-create towards innovation

7,746 participants in regional events

PLAi Innovar

+1,600 Users

First public virtual incubator and accelerator

Respond, Rebuild, Reinvent

9 countries

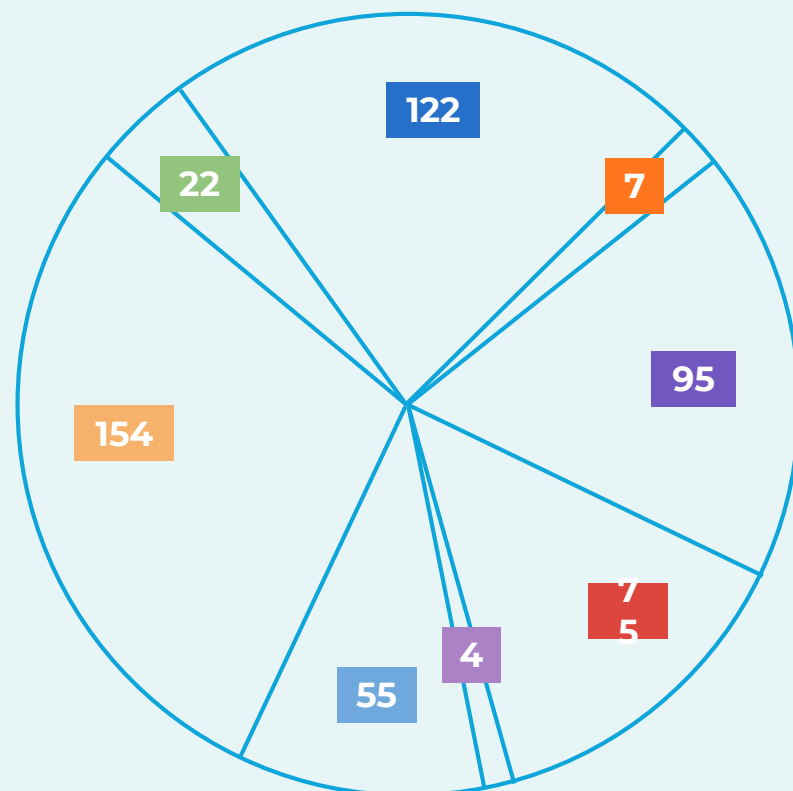
Offers 9 cities the opportunity to learn, share, and collaborate across countries and regions

ANNEX

Science and Technological Development

Inventions Applications in 2019-2021

Projects approved per sector



Technical area	%
Mechanics	22.85%
Electrics	1.31%
Electronics	17.79%
Chemicals	14.04%
Pharmaceuticals	0.75%
Biotechnology	10.30%
Design	28.84%
Software	4.12%

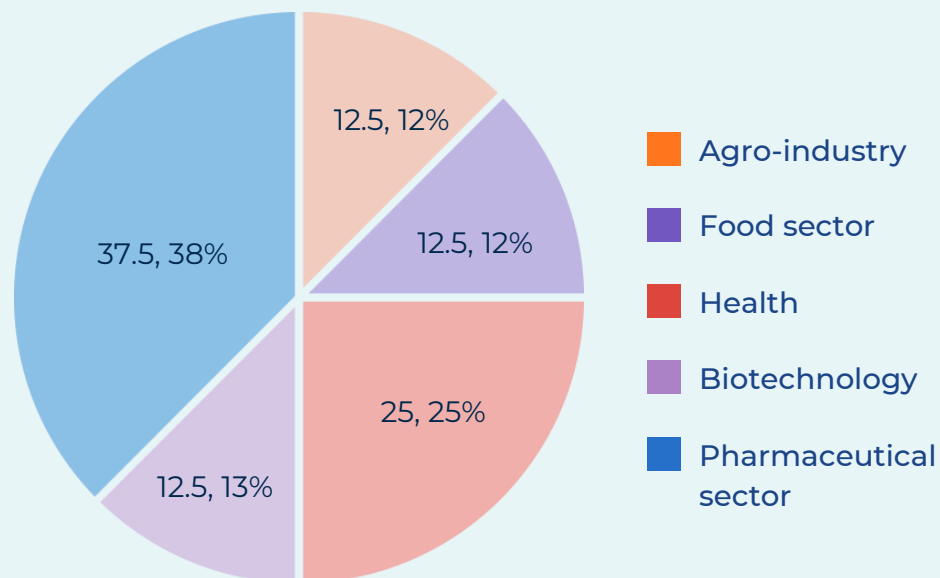
Total number of projects approved: **534**

Source: DGCyDT- DPI-SICyT

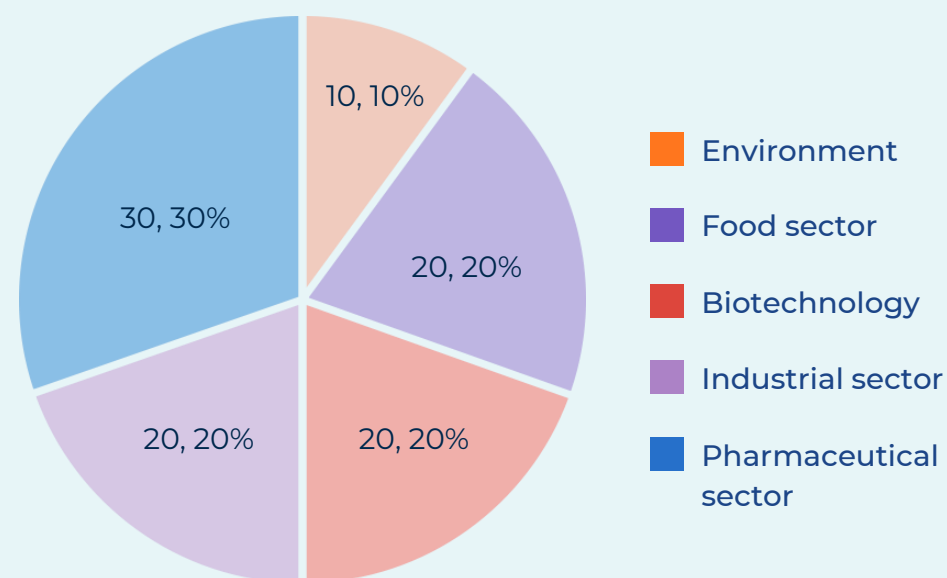
Universities and Research Centers (public and private)

Inventions per sector (integrated in the technological portfolio as a transfer action in 2020-2022)

Percentage of projects with transfer actions per sector 2020-2021



Percentage of projects with transfer actions per sector 2021-2022



Source: DGCyDT- DPI-SICyT

ANNEX

Contact information

Contact information

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Contact information

2. Jalisco Consortium for Higher Education Cooperation and Internationalization

- Universidad de Guadalajara (UdeG) (public)

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- Instituto Tecnológico y de Estudios Superiores de Occidente (ITESO) (private)

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Contact information

3. Research Centers

- Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, A.C. (CIATEJ)

(Center for Research and Assistance in Technology and Design of the State of Jalisco, A.C.)

Contact person:

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- Centro de Tecnología Avanzada A.C. (CIATEQ) (Advanced Technology Center)

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- Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV) Guadalajara

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