



# TECNOLÓGICO DE MONTERREY



**Latin America  
Universities  
Summit**

In partnership with



**Tecnológico  
de Monterrey**

# **Regional collaboration for global application: How universities are driving social progress**

**July 3<sup>rd</sup> and 4<sup>th</sup>, 2023**

**Conference Center**

**Tecnológico de Monterrey, Campus Monterrey**

**<https://www.timeshighered-events.com/latin-america-universities-summit-2023>**

- KeyNotes
- Round Tables
- Networking
- Cultural events

**Open for Registration**

**94,424** students



**60,169** Undergraduate

**7,461** Graduate

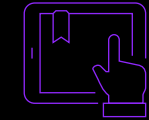
**26,794** Sr. High School



**+10,000**  
professors



**+330,000**  
alumni



**Academic programs**

**44** Majors

**41** Masters

**17** Health Specialities

**11** PhD Programs

**3** Sr. High School programs



**Campuses in 28** mexican cities



**6 Schools**

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



**+600**  
researchers

National Research System



**#161**  
in the world

**#30**  
private in the world

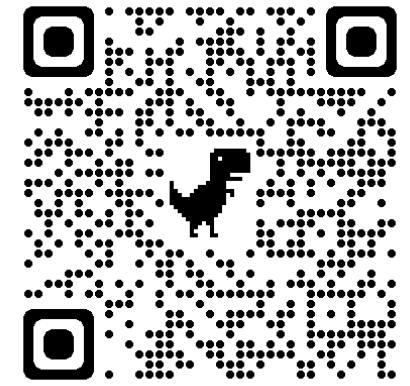
**#6**  
undergraduate entrepreneurship programs



Science in → Action



EIC EAAD EMCS  
ECSG EHE EN



 **Institute of Advanced Materials for Sustainable Manufacturing**

 **Institute for the Future of Education**

**Institute for Obesity Research**

**oriGen**

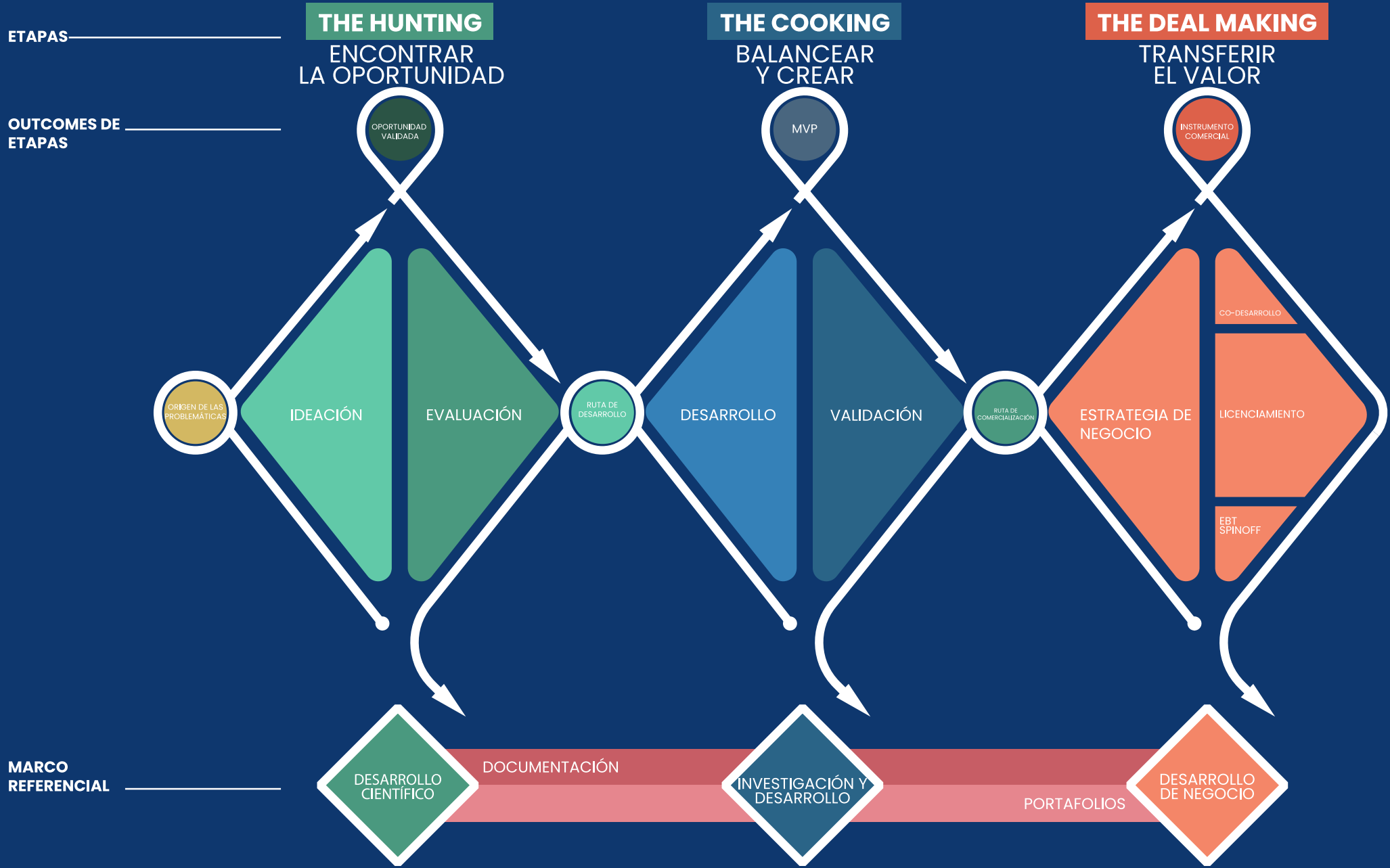


- Data Science
- Genomics
- Manufactura Aditiva
- Unidad de Investigación Preclínica

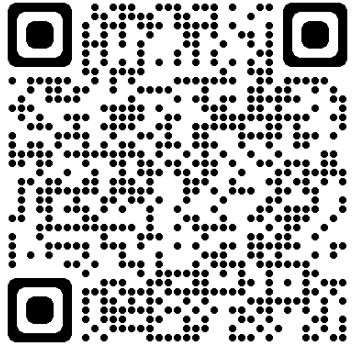
Emprendimiento basado en la ciencia

# Modelo EBCT

Emprendimiento de Base Científico-Tecnológica



# Modelo EBCT

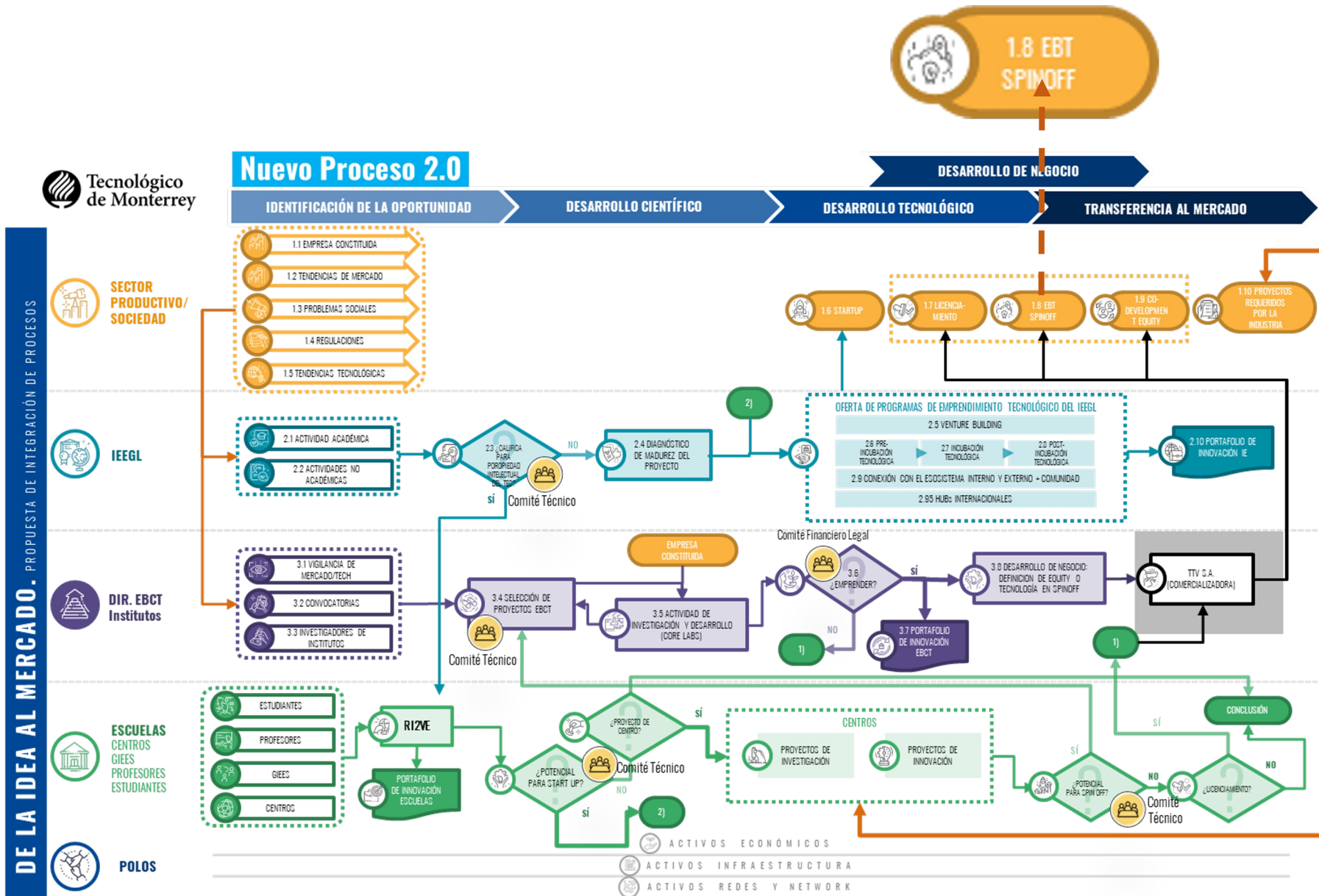


<https://youtu.be/lxY9QM1pnck>





# Modelo integrador del proceso EBCT para la Transferencia de Tecnología



Estrategia de salida **Spin offs** para poder clarificar las acciones y pasos requeridos para evaluar proyectos potenciales para asignar fondos y con ello encaminar un escalamiento y transferencia de tecnología

# EBCTs Portafolio 22-23



Producción de carne de origen vegetal y de cultivo celular Acuerdos de licencia y colaboración con Saya-Bio

Pre-Seed Stage



Aditivo lubricante para temperaturas y presiones extremas basado en nanotecnología

Seed Stage



Ingredientes y suplementos funcionales a base de frijol negro con beneficios potenciales contra enfermedades crónicas

Pre-Seed Stage



Cloud y On-Premise, laboratorios ciber físicos y virtuales en entornos de formación en tiempo real

Seed Stage

# EBCTs Portafolio 23-24 **Candidates**

## **Microbiota**

Simulación de tracto digestivo para análisis de ingredientes en la microbiota humana y animal de alimentos y medicamentos  
Pre-Seed Stage

## **Sytosol**

Sensores para ciencias de la salud y biotecnología, con aplicaciones nano-dispositivos, oftalmológicas, y cancerológicas  
Pre-Seed Stage

## **Horizon Architecture**

Framework de propósito general y sistema Data+AI para abordar tareas complejas dentro de dimensiones fractales en redes.  
Seed Stage

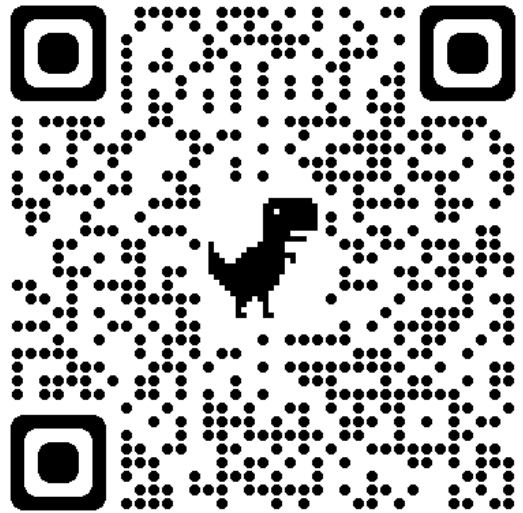
## **CollMemb**

Membranas de colágeno para uso oftalmológico tratamiento de opacidades corneales por trasplante intra-corneal.  
Pre-Seed Stage



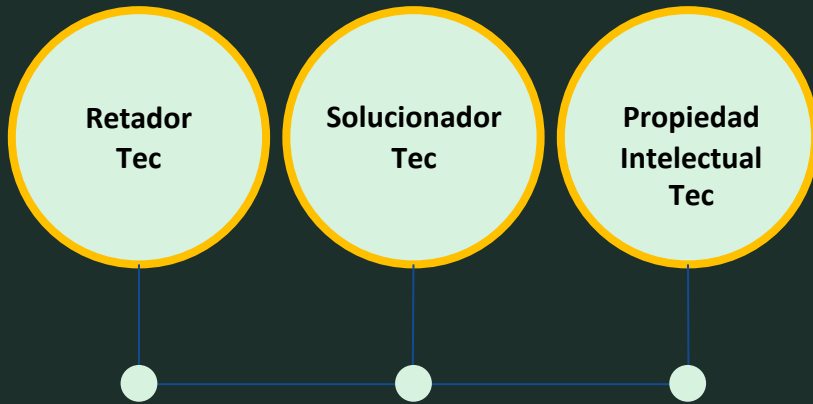


# Plataforma Science Connexion



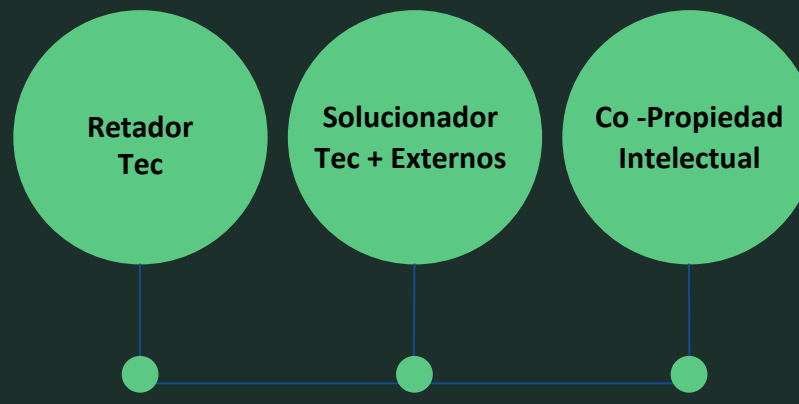


### Comunidad Tec



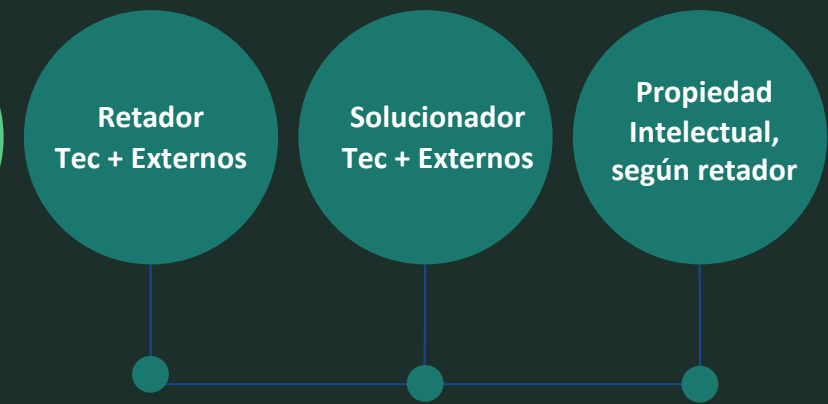
Fase 1

### Tec + Actores externos



Fase 2

### Plataforma abierta



Fase 3

Etapas del PoC Protocolo descentralizado científico de EBCT



Perfil de investigadores y empresas BCT



Tokenización de P.I.

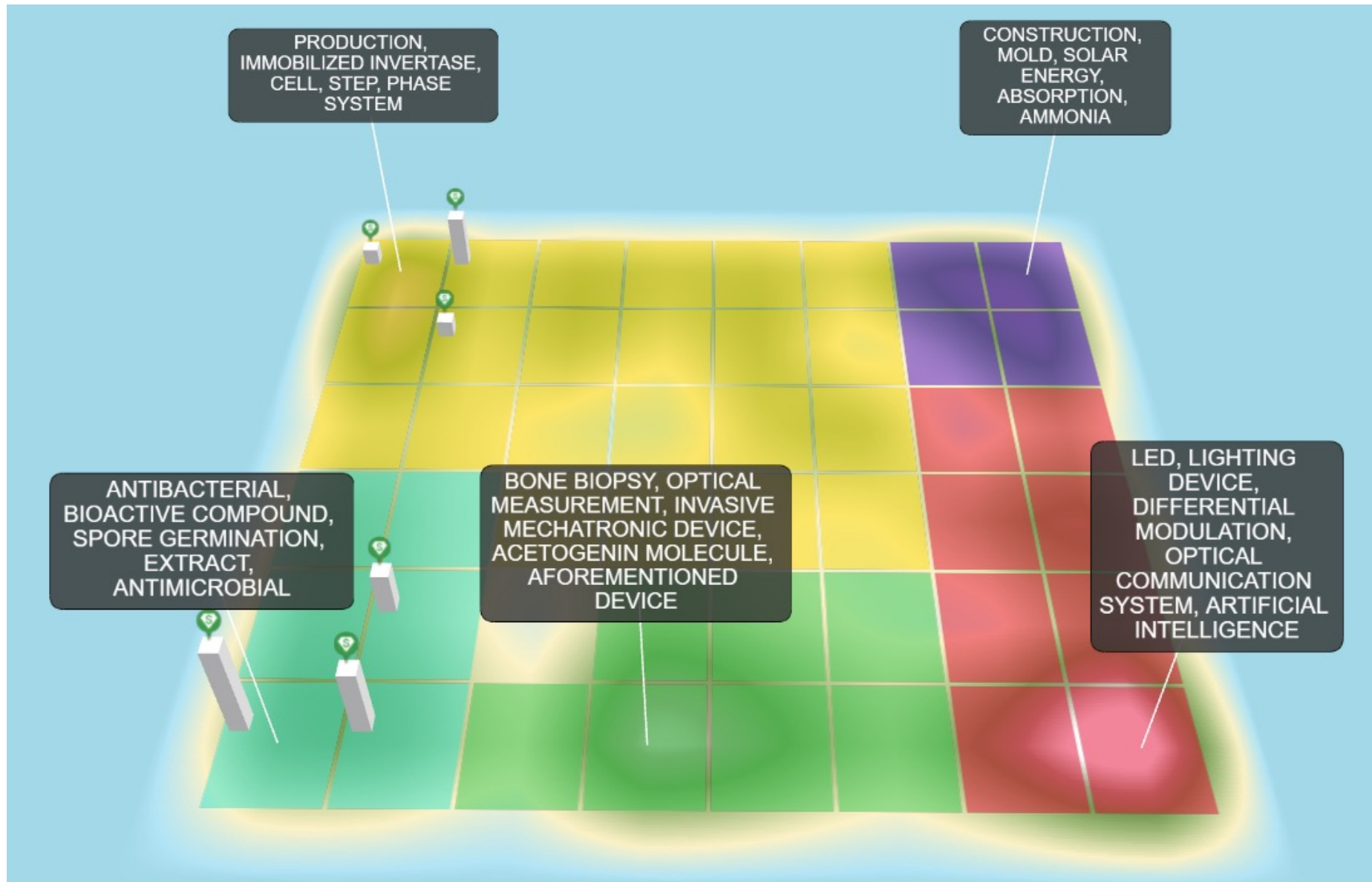


Marketplace de P.I. tokenizada

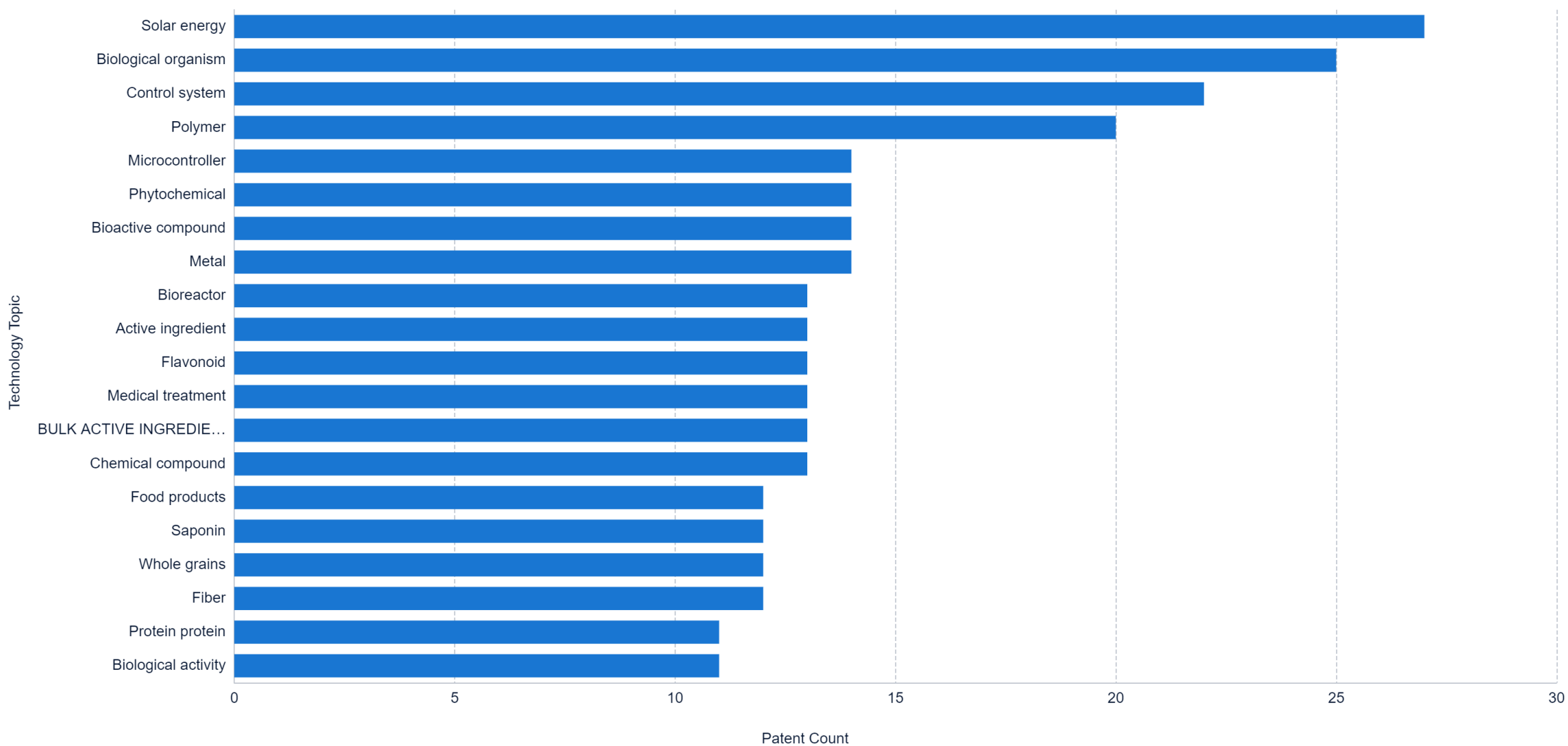


# Apéndice

# Portafolio general de tecnologías



# Principales sectores tecnológicos



# Patentes con Alto Potencial

## Energy-Saving LED-Based Lighting Device

🇺🇸 US 2010/0084984 A1, Family: 3s / 3ex, Applicants:

Published: Apr 8, 2010, Filed: Feb 25, 2008, Earliest Priority: Mar 2, 2007

## Antimicrobial, Antibacterial and Spore Germination Inhibiting Activity From an Avocado Extract Enriched in Bioactive Compounds

🇺🇸 US 2013/0216488 A1, Family: 22s / 22ex, Applicants:

Published: Aug 22, 2013, Filed: Feb 8, 2013, Earliest Priority: Aug 9, 2010

## Method for Obtaining Mucilage From Salvia Hispanica L.

🇨🇪 WO 2008/044908 A2, Family: 3s / 3ex, Applicants:

Published: Apr 17, 2008, Filed: Oct 12, 2007, Earliest Priority: Oct 12, 2006

## Cancer cell growth inhibition by black bean (*Phaseolus vulgaris* L) extracts

🇺🇸 US 2006/0024394 A1, Family: 18s / 18ex, Applicants:

Published: Feb 2, 2006, Filed: May 10, 2005, Earliest Priority: May 10, 2004

## Bone biopsy and bone marrow aspiration device

🇺🇸 US 8992442 B2, Family: 10s / 10ex, Applicants:

Published: Mar 31, 2015, Filed: Sep 5, 2008, Earliest Priority: Sep 7, 2007

## Dielectric Mineral Oil Conditioned With Graphene Nanoflakes

🇺🇸 US 2015/0294753 A1, Family: 9s / 9ex, Applicants:

Published: Oct 15, 2015, Filed: Oct 24, 2013, Earliest Priority: Oct 24, 2012

## Lubricating Oil for Automotive and Industrial Applications, Containing Decorated Graphene

🇺🇸 US 2016/0194575 A1, Family: 5s / 5ex, Applicants:

Published: Jul 7, 2016, Filed: Sep 19, 2014, Earliest Priority: Sep 4, 2013

## Method for Obtaining Oil Free From Oil Seed Solvents

🇨🇪 WO 2008/041834 A2, Family: 3s / 3ex, Applicants:

Published: Apr 10, 2008, Filed: Oct 5, 2007, Earliest Priority: Oct 5, 2006

## Modulator and Demodulator for a Differential Optical Modulation Format With Eight Phase Changes

🇺🇸 US 2011/0008054 A1, Family: 4s / 4ex, Applicants:

Published: Jan 13, 2011, Filed: Dec 1, 2008, Earliest Priority: Dec 14, 2007

## Variable Stair and Ramp System for Rehabilitating the Lower Limbs

🇨🇪 WO 2012/057595 A1, Family: 3s / 3ex, Applicants:

Published: May 3, 2012, Filed: Oct 26, 2010, Earliest Priority: Oct 26, 2010