

INSTITUTO
DE **INNOVACIÓN**
Y **TRANSFERENCIA**
DE **TECNOLOGÍA**



Impulsando la Economía y Sociedad del Conocimiento en Nuevo León

Research and Exchange Opportunities in Mexico

Institute for Innovation and Technology Transfer



Nuevo León
Gobierno del Estado



- **Nuevo Leon's Innovation System**
 - **Context:**
 - **Economic Data of Nuevo Leon**
 - **State Program in Science, Technology and Innovation 2010-2015**
 - **Programs for funding R&D, innovation and graduate scholarships**
 - **State programs**
 - **Federal Funds**

Economic Data of Nuevo León

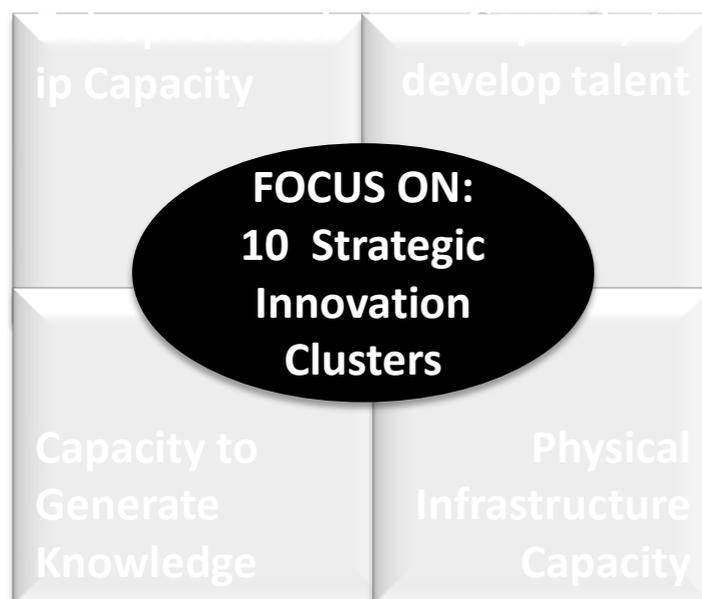


- Population of 5 M (4% of Mexico)
- GDP 8% of Mexico
- GDP per capita USD \$18 500 vs. avg. USD \$8 500 USD Mexico
- 4 major Universities (ITESM, UANL, UDEM, UR)
- 93 colleges and universities
- More than 150 000 students at University level
- 15 000 students graduated per year in engineering & sciences careers
- USD \$2 750 M FDI (20% of Mexico)

The State Program in Science, Technology and Innovation is based in six strategies:

- Strategy 1.** Developing **Human Resources** in Strategic Knowledge Sectors for Nuevo León
- Strategy 2.** **Promote innovation** in the strategic productive sectors
- Strategy 3.** Increase the **Scientific and Technological Infrastructure**
- Strategy 4.** **Promote the Basic and Applied Research** in strategic sectors of Nuevo Leon
- Strategy 5.** Promote **New Businesses based on Innovation**
- Strategy 6.** **Spread the impact of Science, Technology and innovation** on the economic and social development at entity level.

To support the State's Innovation Ecosystem



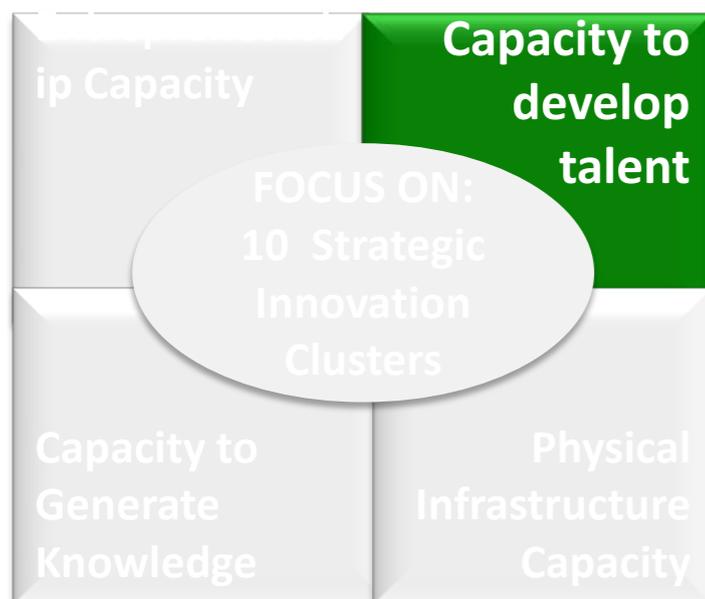
- **Operation supported by private & public funds**
- **Long Term Strategic Plan**
- **Strategic agenda and specialized committees:**
 - **Human Resources**
 - **Investment & Growth**
 - **Innovation**

Triple Helix Model : Academy-Government-Industry : cooperation for competitiveness and growth.

10 Strategic clusters :

- IT & Software
- Automotive and autoparts
- Domestic Appliances
- Biotechnology
- Medical Services
- Agribusinesses
- Nanotechnology
- Aeronautics
- Multimedia and Creative Industries
- Sustainable Housing Development

The R&D and innovation funds are tailored to make these clusters more competitive.



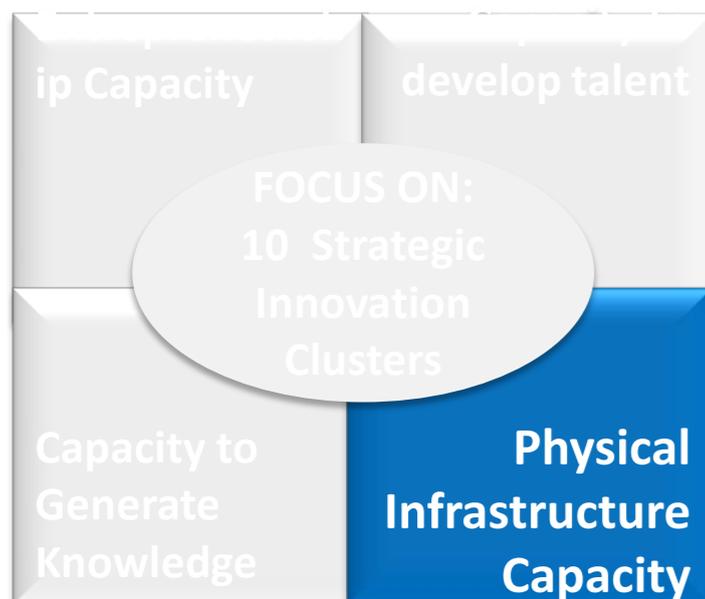
Human Resources for Research and Innovation

- **Scholarships in strategic areas:**

- Sustainability and renewable energy
- Health sciences
- Pharmaceutical
- Biotechnology
- Material sciences and Nanotechnology
- Information Technology
- Agriculture, beverage and food sciences
- Electronics
- Aeronautics
- Security
- Mechatronics, advanced manufacturing
- Logistics and supply chains

- We are looking for new partners with the best programs in these areas
- There are 200 scholarships available per year for studying abroad at PhD and MSC level
- The candidates must comply with a letter of intent of a local company/institution to hire them at the end of their studies

Nuevo León's Innovation Ecosystem



- 85+ Research Centers belonging to Public and Private Institutions
- 10 Medium Technology Incubators
- 4 High Technology Incubators; 2 at PIIT (Nanotechnology and Biotechnology)
- **1 Research & Technology Innovation Park (PIIT)**

We can facilitate contact with local universities to explore opportunities for joint dual degrees, student and professor exchanges, sabbaticals, etc.



Member of:

- IASP (International Association of Science Parks)
- AURP (Association of Universities Research Parks) Member

2012 - 2015:

- A total of **33 public and private research centers and 4 High-Tech Incubators**
- **USD \$350 million accumulated investment**
 - USD \$100 million state & federal resources
 - USD \$250 million are third-party resources
- **6 000 scientists, technicians and support personnel**

A thriving innovation ecosystem open to foreign R&D centers from universities and private companies.



- 40 Ha land extension
- 20 new research centers
- A land investment of USD \$11 millions

40 Ha land extension

Next Steps:

- 20 new research centers
- Master Plan for 2 500 Ha adjacent to PIIT: Creative and Knowledge City

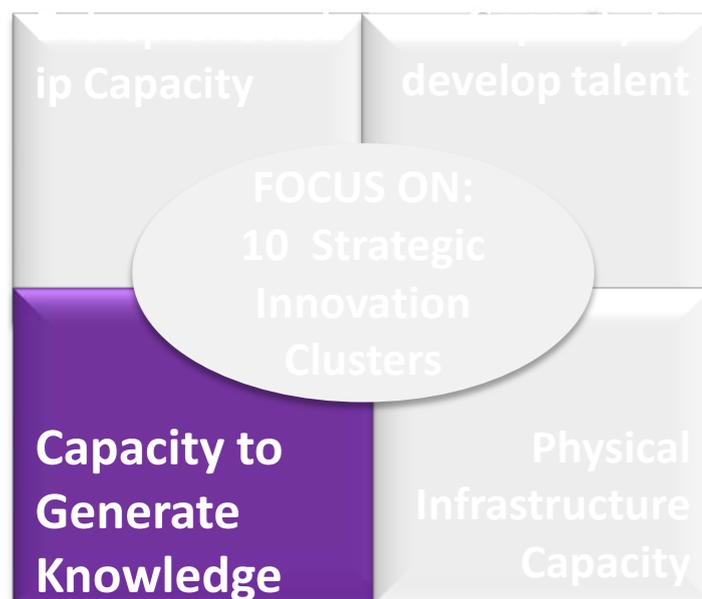


Universities	Public Centers	Private Research Centers	Incubators
UANL (2)	IANL	Motorola	Nanotechnology
ITESM	CINVESTAV (2)	Pepsico - Gamesa	Biotechnology
UT	CIMAV	Sigma Alimentos	Information Technologies
UDEM	CIDESI	Monterrey IT Cluster/ LANIA	Alternative Energy (Conceptualization stage)
UNAM (3)	CIATEJ	PROLEC - GE	
ITNL	IIE	VIAKABLE	
Universidad Regiomontana	CICESE	KATCON	
	CIMAT	METALSA	
		Schneider Electric	
		CAINTRA/IMITPH	
		QUALTIA	
		COPAMEX	
		ANCE	
		YAZAKI	
10	9	14	4

- In operation
- Under Construction
- construction 2013

Strategic areas:
Sustainable housing
Nanotechnology
Information Technologies
Mechatronics and Robotics
Health
Adv. Manufacturing
Renewable Energies
Biotechnology





MIX FUND CONACYT – NL 2001-2011

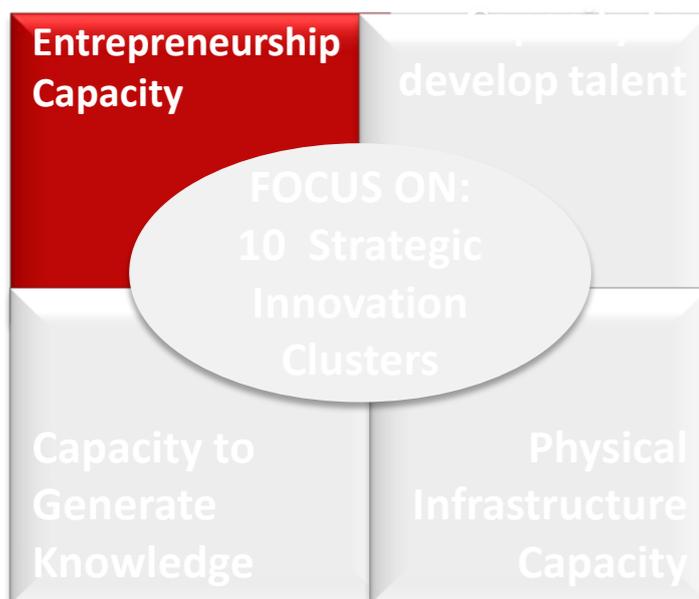
More than USD \$185 millions of allocated funds in Science, Technology and innovation in the following modalities:

- Scientific research
- Technological development
- Training of human capital
- Infrastructure creation and strengthen
- Spread of science

A total of 47 calls for proposals and 218 projects approved

FEDERAL INNOVATION FUNDS

The funds may be used for international cooperation in projects and to establish dual degree programs

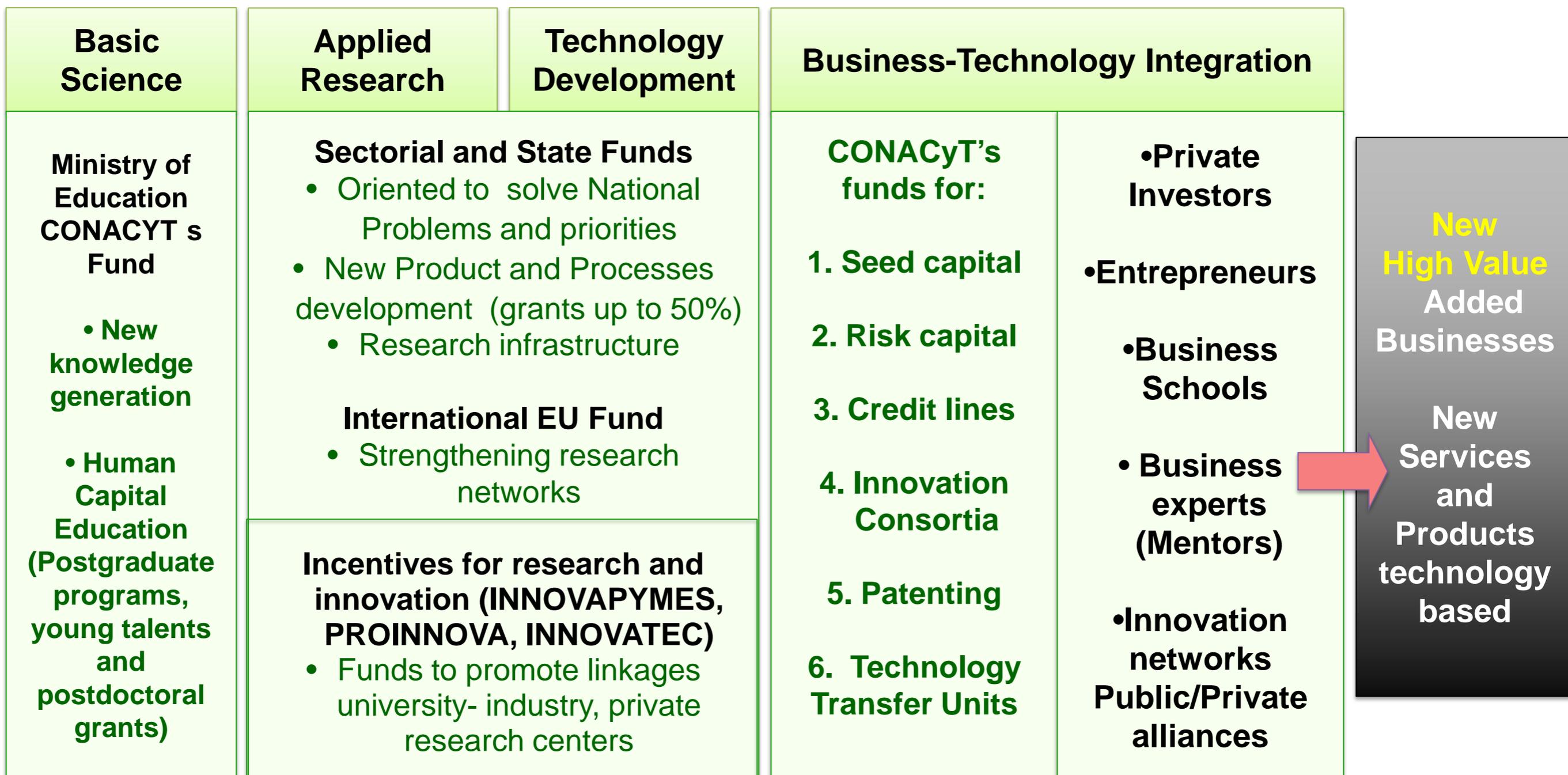


NUEVO LEÓN'S FUND FOR INNOVATION (FONLIN)

- New products or services proposals based on scientific and technological innovation that are in a pre-commercial stage
- The economical support depends on the nature of the project and the availability of the fund
- Runtime 2 years maximum
- Concurrent funds CONACYT, I2T2, FUNTEC, IADB
- Angel Capital:
 - Monterrey Global Ventures

We are open for entrepreneurs that would like to establish their technology based companies in Nuevo León.

CONACyT's Science and Technology Policy Mix of programs and instruments



All of these programs have the component of international cooperation

All of the programs may allocate funds for the component of international cooperation, such as:

- Scholarships for PhD or Master
- Student exchange at graduate level
- Professor exchange
- Joint collaboration in R&D projects
- Sabbaticals
- Dual degree programs
- New international businesses

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