

# The Argentine Engineering Schools and its contribution to the local and regional development

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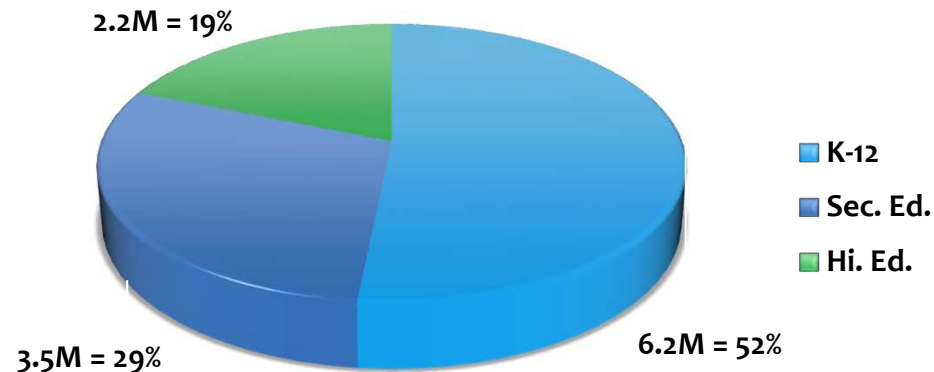
# Argentina: Location and data



- \* Almost 1.5 million sq. miles
- \* 2,361 miles in length
- \* 40+ millions inhabitants
- \* GDP Total \$368,400 billions
- \* GDP per capita \$8,881
- \* GINI coefficient 45.7
- \* HDI 0.775

# Argentina: Education System

- \* Public education is tuition-free from the elementary to the university levels
- \* National education budget/GDP = 6,4%
- \* Almost 12 million students in all levels

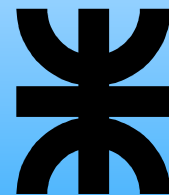


# Argentina: Higher Ed. System

- \* 54 Public Universities and Institutes
- \* 58 Private Universities and Institutes
- \* 1 Provincial State University
- \* 1 Foreign University
- \* 1 International University
- \* Undergraduate students = 2.1 M (12% in Engineering)
- \* Graduate students = 80 K

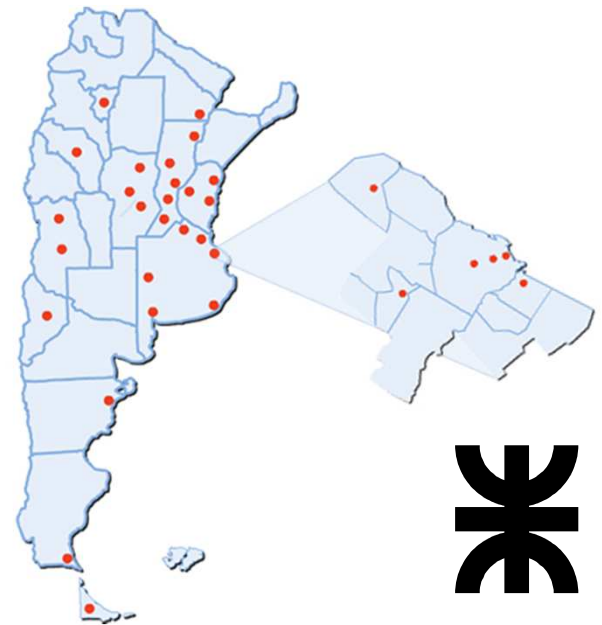
# Argentina: Engineering Education

- \* Engineering undergrad students = 242 K
- \* Applied Sciences grad students = 10 K
- \* UTN = 80 K undergrad and 3 K grad
  - \* 33% of undergrad engineering students
  - \* Almost 60% of all engineers in our country have graduated from its 16 majors



# Universidad Tecnológica Nacional

- \* It is the only Argentinian university exclusively devoted to Engineering Education.
- \* It is the only federal university in the country, with 31 campuses and 1 central administrative building, covering practically all our national territory.
- \* These characteristics entail a constant and close link with different regional productive systems and a rich academic exchange at national level.



# CONFEDI

- \* Engineering Deans Federal Council
- \* Established in 1998
- \* Member for ASIBEI and IFEES
- \* 60 Universities
- \* More than 100 Deans
- \* Very active in defining engineering accreditation criteria



# Engineering Education for a Sustainable Development in the XXI Century\*

- \* To generate early vocations
- \* To assure the quality of education
- \* To educate engineers with a systemic vision
- \* To educate engineers with a supranational-regional perspective
- \* To support the local and regional development

\* This guidelines has been recently established by CONFEDI





# Regional Program for Entrepreneurship and Innovation in Engineering

## \* Mission

- \* To promote and disseminate the culture of entrepreneurship and innovation among undergraduate students of engineering programs in the region, beginning with the joint development and implementation (between institutions in Argentina, Brazil, Chile and Uruguay) of a set of knowledge, materials and teaching and pedagogical tools that are meant to facilitate the training of entrepreneurs engineers and innovators.



# Business Incubator of Technology-Based Companies at UTN

- \* Mission

- \* To promote the setting up of new technology-based companies and spin-offs from the work of academics and researchers. This task is carried out in collaboration with the State Government and Industrial Union of the province (Chaco)

# Business Incubator of Technology-Based Companies at UTN

- \* General goals
  - \* To contribute to the creation, development, consolidation and growth of new companies and innovative businesses, thus supporting the training of entrepreneurs, in order to generate jobs and achieve economic growth and social development in northeastern Argentina
- \* 39 projects are currently under evaluation in the areas of agribusiness, software, food, energy, textile, metallurgical industry and forest industry

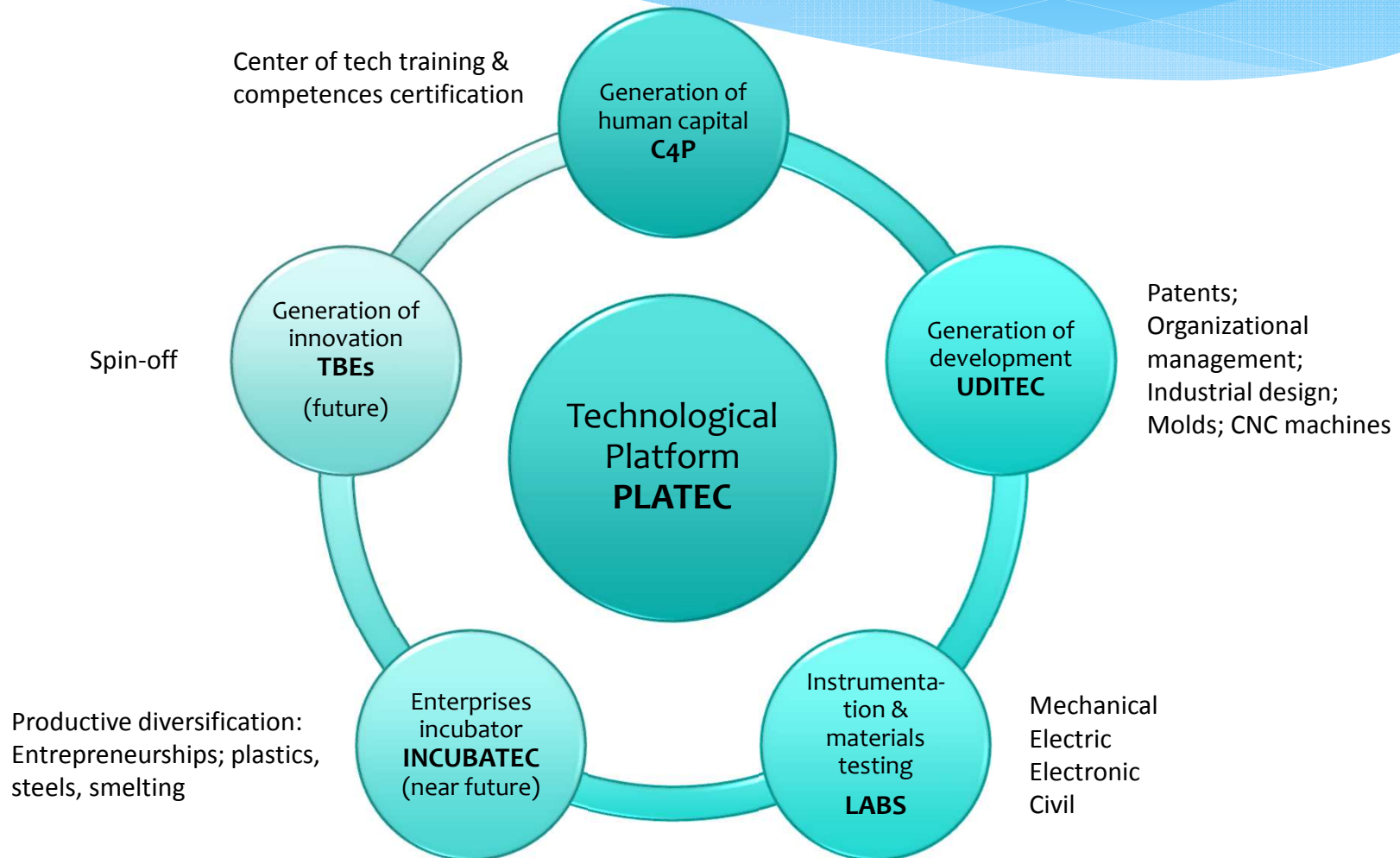
# Regional Development

## UTN – Industry - Government

- \* University, local government and private enterprises implement actions aiming to generate local and regional development. Located inside the Industrial Park of Bahia Blanca City
- \* Benefits:
  - \* The University works like the development dept. of the small or medium enterprise. Technology transference.
  - \* Students interact with the productive environment: internships, final projects, curricular feedback, problem based research, etc.
  - \* Social promotion, creation of qualified positions, added value production, improvement of governance.

# Regional Development

## UTN – Industry - Government



Mark your calendars!!!



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