# TIJUANA REGIONAL PROFILE

PRODUCED BY SAN DIEGO REGIONAL EDC



**TIJUANA:** The largest city in the state of Baja California sits at one of busiest land border crossings in the world. Together with San Diego, Tijuana is part of a dynamic cross-border metropolis where deep economic and cultural linkages result in the creation of value, jobs and exports. The unique dynamics of the region provide local companies with an important comparative advantage in the global economy.

In Tijuana, employment in global companies has grown steadily, with many workers engaged in STEM and R&D-intensive industries. The city has become a powerhouse in industries such as semiconductors, medical devices, aerospace, electrical equipment, and audiovisual and communications equipment. Quality universities and an attractive cost of doing business have supported the development of these high-growth industries, attracting more than \$5.6 billion of foreign direct investment to the region since 2012.<sup>1</sup>

On average, 137,000 people cross the border each day between San Diego and Tijuana.<sup>2</sup> Like the economy, people's lives exist on both sides of the border. Tijuana's vibrant cultural scene – with trendy coffee shops, world-class restaurants, museums, art galleries and a top-ranked soccer team – provides an enriching quality of life to residents. Nearby beaches in Rosarito and Ensenada, as well as the bourgeoning Valle de Guadalupe wine region, attract tourists yearround.



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#### **ECONOMIC DRIVERS**



#### **TIJUANA QUICK FACTS** Population (2015): 1.6M Gross Domestic Product (2014): \$21B

Unemployment (2015): 4.1%

Sources: <sup>1</sup>Ministry of Economy, 2012-2016. <sup>2</sup>U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, Border Crossing/Entry Data, based on the U.S. Department of Homeland Security, Customs and Border Protection 2017

### TIJUANA: ECONOMIC DRIVERS

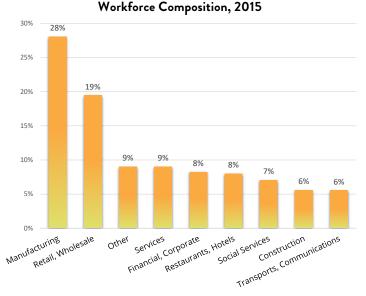


## TIJUANA: EDUCATED TALENT

Tijuana boasts a high-skilled and specialized workforce. The city has the highest concentration of talent in Mexico in medical device manufacturing and a host of other STEM-intensive industries. Strong universities and vocational high schools work closely with the private sector to prepare graduates for careers in advanced manufacturing and the service sector. Companies are supported by 8,000 professional, scientific and technical service providers, while a variety of incubators, accelerators and coworking spaces cater to startups and the tech and creative industries.



64% of high school graduates recieve technical education<sup>2</sup>



Source: National Survey on Employment and Occupation, 2016; National Institute of Statistics and Geography, 2016; National Survey on Employment and Occupation; Mexico City: INEGI

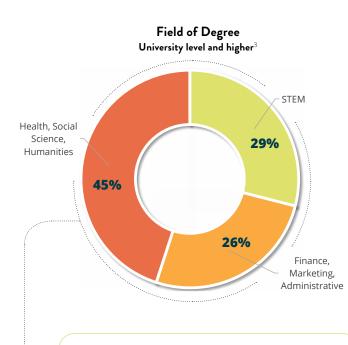
#### Number of graduates by degree type, 2014-2015

Degree type	Degree type Numer of graduates	
High School	16,346	
Bachelors	7,696	
MA / PhD	777	

Source: Mexican Ministry of Education, 2015. Education Statistics and Information Department, 2015. Education Indicators by State. Mexico City: SEP. Calculations by the UC San Diego Center for US-Mexican Studies.



BIT Center, Tijuana



#### **KEY UNIVERSITIES**

Autonomous University of Baja California (UABC) Center for Technical & Higher Education (CETYS) Ibero-American University Tijuana (IBERO) Tijuana Institute of Technology (ITT) Tijuana University of Technology (UTT)

A DIVERSIFYING ECONOMY: Tijuana is known historically as a global hub for advanced manufacturing – a reputation built by a talented workforce with established skills in manufacturing of medical devices, automotive parts and aerospace components. However, the **rise of the innovation cluster** in recent years is proof of Tijuana's diversifying economy. Global biotechnology giant **Thermo Fisher Scientific**, with a massive training center in San Diego County, cut the ribbon on its worldwide software center of excellence in Tijuana in September 2016. Additionally, **coworking spaces and incubators** such as BitCenter and MindHub foster the entrepreneurial spirit of locals who are positioned to benefit from Tijuana's proximity to California – the 5th largest economy in the world.<sup>3</sup>

### **TIJUANA: TOURISM + QUALITY OF LIFE**

Historically praised for its street tacos and nightlife, Tijuana has transformed into a burgeoning market for high-quality, locally sourced culinary experiences complemented by an up-and-coming craft beer scene. Leading this shift, the city is home to more than half of Baja's craft breweries and some of the region's most acclaimed chefs including Javier Plascencia and Martin San Roman. Top that off with an eccentric music and arts scene, Tijuana attracts weekend visitors and retirees from the U.S. who take part in a wide variety of activities including festivals, local artisan markets, shows and beachside fun.









#### EAT + DRINK

- Puerto Nuevo (lobster village)
- Ceasar's Restaurante (restaurant)
- Los Remedios (restaurant)
- Mission 19 (restaurant)
- Verde y Creme (restaurant)
- Plaza Fiesta (entertainment plaza)
- Cerveceria Insurgente (brewery)
- Border Psycho (brewery)
- Mamut (brewery)
- · Cerveceria Tijuana (brewery)
- Telefonica Gastro Park (food park)

#### LISTEN LEARN

- Centro Cultural de Tijuana (cultural center)
- Tijuana Inovadora (conference/festival)
- El Cubo (art gallery)
- El Foro (concert venue)
- Museo del Trompo (interactive museum)
- Museo de la Historia (history museum)
- Museo de las Californias (museum)
- Entijuanarte (music festival)
- Plaza Monumental (event venue)
- Avenida Revolucion (main street) • Cinepolis 4DX (theater)

#### TRAVEL + PLAY

- Valle de Guadalupe (wine country)
- Club Campestre de Tijuana (golf course)
- Toros de Tijuana (baseball)
- Xolos de Tijuana (soccer)
- · Zonkeys de Tijuana (basketball)
- Galgodromo Caliente (racetrack)
- Casino Caliente (casino)
- Parque Morelos (park, zoo)
- Mundo Divertido (amusement park)
- Surfing spots in Playas de Tijuana
- La Bufadora (geyser)
- Paseo Rosarito Ensenada (cycling event)



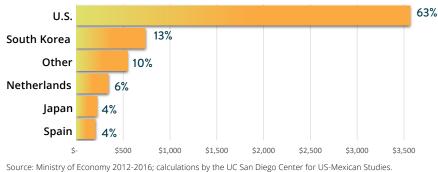
Mission 19 Restaurant • Border Psycho Brewery • Ensenada, Baja California • Valle de Guadalupe wine country

QUALITY OF LIFE ON THE RISE: Tijuana is one of Mexico's most affordable cities for an upscale lifestyle. It has been named a mecca of contemporary culture whose intense cultural diversity has given rise to the birth of new artistic and gastronomic tendencies.

## **BAJA CALIFORNIA:** GLOBAL CONNECTIVITY

### FOREIGN DIRECT INVESTMENT (FDI) + EXPORTS

#### FDI by Country of Origin, 2012 - 2016



#### Top Industries for FDI, 2012 - 2016

Industry	Million USD
Transport manufacturing (cars, trucks and aerospace)	\$1,154
Computer and electronic product manufacturing	\$722
Electrical equipment, appliance, and component manufacturing	\$387
Plastics and Rubber Products	\$347
Machinery Manufacturing	\$333
Beverage and tobacco product manufacturing	\$262
Paper Manufacturing	\$186
Natural gas pipelines	\$437
Retail and Deparment Stores	\$174
Credit intermediation and related activities	\$190

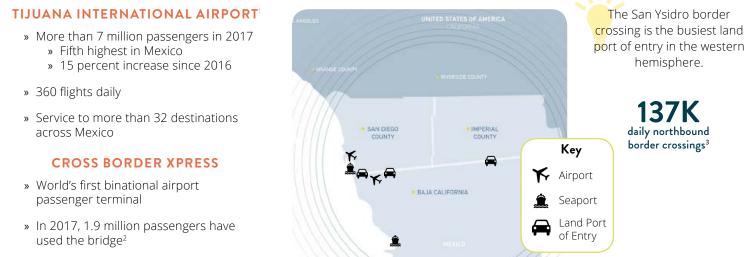
\$5.6B Total Foreign Direct Investment, 2012-2016<sup>1</sup>
EXPORTS
\$388B total exports, 2015
Source: National Institute of Statistics and Geography, 2015.

#### FOREIGN DIRECT INVESTMENT:

Manufacturing industries account for **71 percent** of Baja California's total investments by foreignowned companies. Global giants including BD, Samsung and Panasonic, among others manufacture innovative products in Tijuana that are exported all over the world.

Source: Ministry of Economy 2012-2016; calculations by the UC San Diego Center for US-Mexican Studies.

**CONNECTIVITY:** Tijuana's coastal geography and proximity to the U.S. border positions the region to expand trade and increase global connectivity. Among U.S.-Mexico border crossings, the Otay Mesa port of entry processes the third highest volume of trucks and value of commercial goods. The nearby Port of Ensenada has invested in infrastructure necessary for modern containerized shipping, while the San Ysidro border crossing is one of the busiest in the world. Many frequent border crossers are enrolled in trusted traveler programs which keep wait times down to under 15 minutes. In addition, Tijuana Airport passengers can enter the U.S. directly through the world's first cross-border airport terminal, the Cross Border Xpress.



Sources: <sup>1</sup>Passenger and Flight Arrival by Airport, 2016, Mexican Secretariat of Tourism with data obtained from Airports and Auxiliary Services & Secretariat of Communications and Transportations. <sup>2</sup>Pacific Airport Group, 2016, <sup>3</sup>US Department of Transportation, 2017.

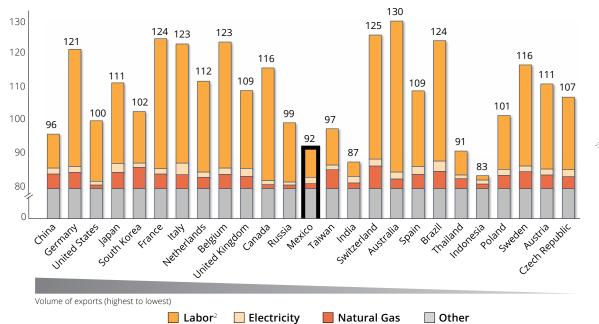
## TIJUANA: COST COMPARISON

Over the past decade, Mexico has risen to become a global manufacturing powerhouse - a reputation that can be largely attributed to its competitive wages, substantial productivity gains, energy costs advantages and stable exchange rates. China and Eastern Europe are historically recognized as top destinations for manufacturing - but slight gains in productivity in those regions have been offset by years of increasing wages and energy costs, allowing for shifts in the global manufacturing economy. In fact, Mexico now offers lower average manufacturing costs than China on a unit-cost basis, and foreign investment in Mexico is taking off.

#### Comparing the Top 25 Export Economies, Boston Consulting Group, 2014

#### Manufacturing cost index, 2014 (US = 100)

In 2014, the Boston Consulting Group developed the Global Cost-Competitiveness Index – a tool for analyzing a changing map of manufacturing centers across the globe.<sup>1</sup> The results have driven many companies to rethink decades-old assumptions about sourcing strategies. Over the past decade, Mexico's manufacturing cost structure has improved the most as compared to the top 25 export economies in the world.



When compared to China, Mexico is estimated to have 13 percent lower labor costs and an overall **average direct manufacturing cost** that is four percentage points **cheaper than China.** 

Sources: U.S. Economic Census; U.S. Bureau of Labor Statistics; U.S. Bureau of Economic Analysis; International Labour Organization; Euromonitor International, Economist Intelligence; BCG analysis;

Note: The index covers four direct costs only. Bod iffectively because and the contract of the

Mexico has 10 Free Trade Agreements with 45 countries; more than any other nation.<sup>5</sup>



**REGIONAL MANUFACTURING:** Tijuana has emerged as a center for lowcost manufacturing, giving many U.S. companies the opportunity to shift operations closer to home. Companies that transition from global manufacturing to regional manufacturing benefit from simpler and more **efficient supply chain** processes, **fewer communication barriers** and improvements in **collaboration between teams**.

#### Average annual wager per worker by industry<sup>2</sup>

Aerospace:	\$12,912
Precision Instruments:	\$11,254
Audio & Video Equipment:	\$10,781
Semiconductors:	\$10,100
Medical Devices:	\$9,406
Electrical Equipment:	\$9,104
Automotive Parts:	\$8,209

Industrial Facility Construction Costs <sup>3</sup>				
Facility Size	35.000 sq. ft.	65.000 sq. ft.	100.000 sq. ft.	
Basic Shell	\$26.00 - \$30.00	\$24.00 - \$29.00	\$21.00 - \$26.00	
Semi-Finished	\$28.00 - \$32.00	\$26.00 - \$30.00	\$24.00 - \$31.00	
Finished	\$29.00 - \$33.00	\$28.00 - \$32.00	\$26.00 - \$33.00	

Industrial Facility Monthly Leasing Rates USD per sq. ft.4			
Class A		Class B	
Min.	Max.	Min.	Max.
\$0.42	\$0.48	\$0.36	\$0.41

Sources: <sup>1</sup> Boston Consulting Group, The Shifting Economics of Global Manufacturing, August 2014. <sup>2</sup>National Institute of Statistics and Geography (2014). Economic Census. Mexico City: INEGI with calculations by UC San Diego Center for US-Mexico Studies. <sup>3</sup>Survey: Construction Companies Established in Tijuana, Tijuana Economic Development Corporation, 2015. <sup>4</sup>IVEMSA, Mexican Manufacturing Costs, 2018. <sup>5</sup> ProMéxico, Trade agreements, 2018

### TIJUANA: **RESOURCES + INCENTIVES**

A standard set of local, state and federal incentives exist to attract businesses and support expansion. Incentives can be accessed through government economic development organizations. Below are a few examples of partners and trade organizations in Tijuana.

#### GOVERMENT



**PROMEXICO** is a federal government agency responsible for developing strategies to strengthen Mexico's participation PRO MÉXICO in the international economy, supporting exporting firms and attracting foreign investment. ProMexico has an office in Tijuana.



Secretariat of Economic Development (SEDECO) reports to the Governor of Baja. SEDECO is involved in the permitting process, provides tax incentives to businesses and coordinates support from federal government entities.



Secretaría de Desarrollo Económico de Tijuana (SEDETI) is the municipal government entity in Tijuana which handles economic development matters. SEDETI engages in business attraction and retention and oversees local permitting and approval processes.

#### **NON-GOVERMENT**



Tijuana Economic Development Corporation (DEITAC) is a member-based organization founded more than 25 years ago that is made up of professional service providers. Overseen by a board elected by members, its primary focus is business attraction and retention within the manufacturing sector in Tijuana.



**CANIETI** is the National Chamber of the Telecommunications and Information Technology Electronics Industry, its primary focus is to promote economic growth, innovation and global competitiveness of the industry.



CANACINTRA is a corporate body governed by the Law of Business Chambers that seeks the integral and permanent development of the industrial companies of Tijuana through active and organized participation of the members of the sector.



**CANACO Tijuana** is the regional chapter of the National Chamber of Commerce which supports companies in the commerce, service and tourism sectors.



Economic Development Council of Tijuana (CDT) was founded in 1997 to provide strategic vision and leadership for long-term economic development priorities. It receives funds generated through the state payroll tax and re-grants to organizations and projects through a competitive and transparent process.

### **BUSINESS INCENTIVES**

#### Tax Incentives in Baja California

- Employee training subsidies
- Payroll tax exemption (25 percent 100 percent) from 1-5 years for new projects or significant expansions
- Water connection fees exemption (20 percent to 50 percent)
- · Access to funds from a special fund for infrastructure for strategic companies

#### National Tax Incentives

- "Maguiladora" partial income tax and business flat tax exemption and "safe harbor" transfer pricing rules
- 0% value-added tax for exporting activities
- · Value-added tax exemption for the construction and/or sale of homes
- · Immediate deduction of land for developers

The information presented in this document is based on data analyzed by the Center for U.S - Mexican Studies. For more information and a full list of sources, please contact San **Diego Regional EDC.** 

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