

# Nearshoring & Economic Impact on the Southern Border – Port Laredo

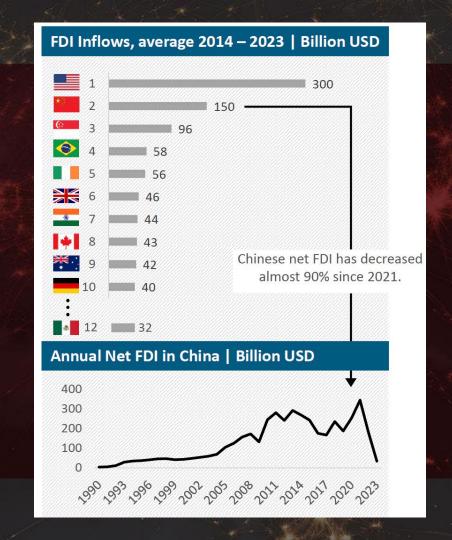
Daniel Covarrubias, Ph.D. October 28, 2024

Fall 2024 Supply Chain Management 548 Section 001 Global Supply Chain Management

**University of Tennessee** 





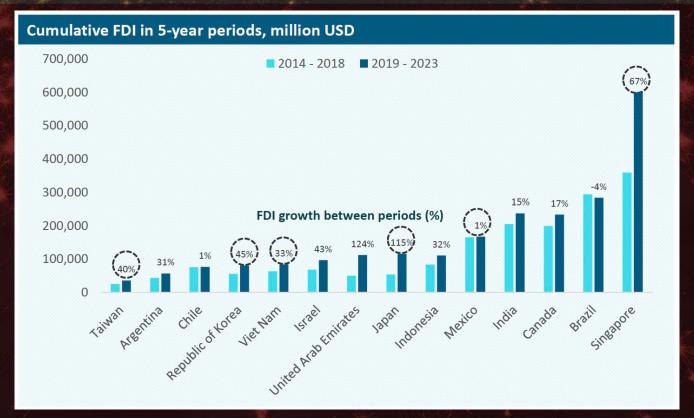


TEXAS A&M INTERNATIONAL UNIVERSITY



Source: Deloitte Mexico Investment Monitor 2024

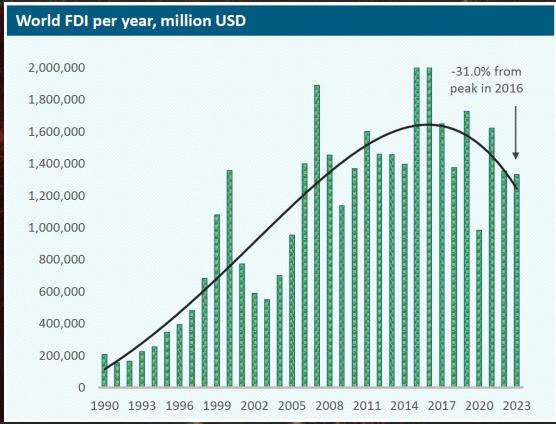






Source: Deloitte Mexico Investment Monitor 2024

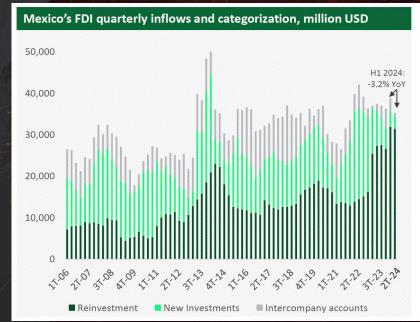






Source: Deloitte Mexico Investment Monitor 2024

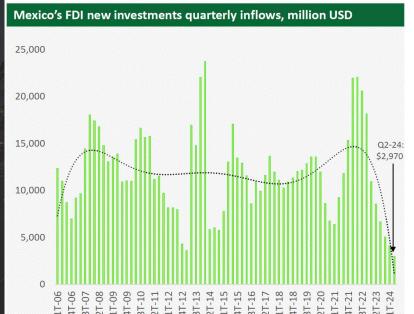


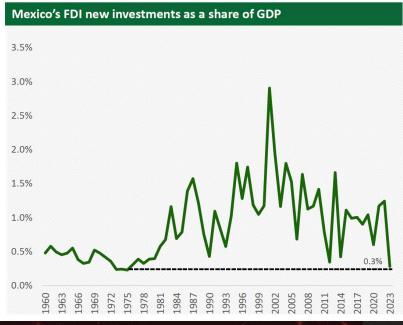






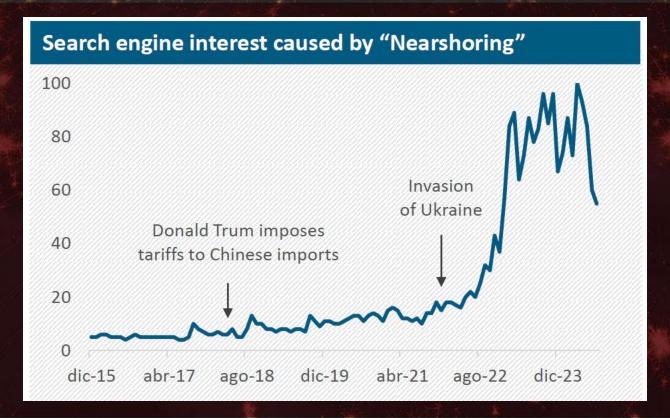




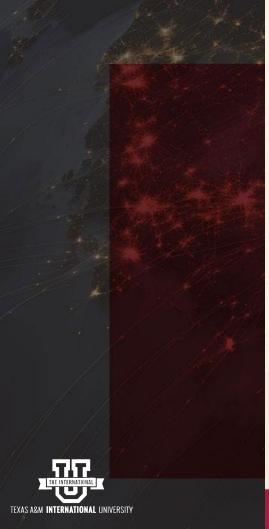












**Anuncios** de Inversión en México

Del 1 de enero al 31 de diciembre de 2023

Se han identificado 378 anuncios de inversión, con una expectativa de

110 mil 744

6.7 % del PIB de 2022.

Con una posibilidad de 234 mil 725

nuevos empleos directos

42% asociados



<sup>1</sup> Cifras originales a precios corrientes

Los 10 principales países de origen concentran el 91% de los anuncios de inversión:



**El 47%** 

de la inversión anunciada corresponde al sector de la manufactura

**Principales industrias** manufactureras



41%



@ 4. Australia 7%

5. Corea 6%











9. Taiwán 3%

@ 10. Países Bajos 2%



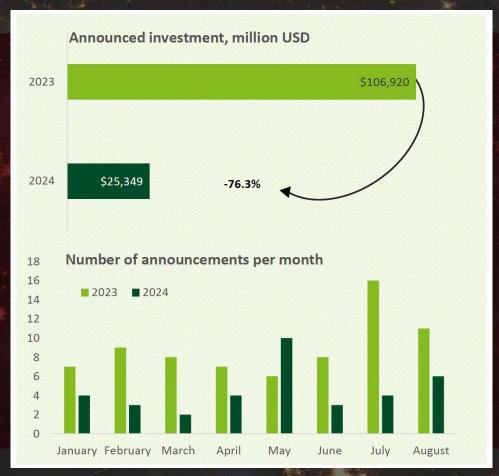


Source: Secretaria de Economia



**ECONOMÍA** 

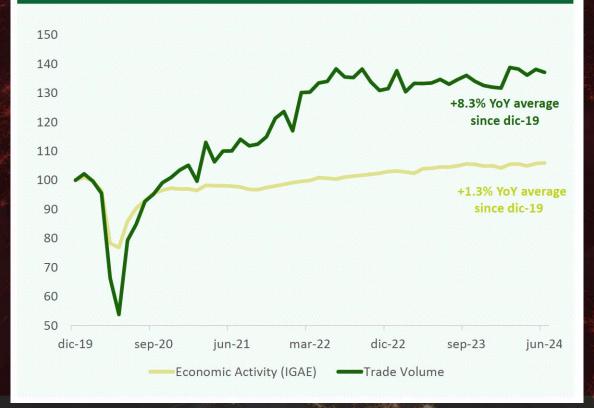








#### Growth of Mexico's Index of Economic Activity vs Trade Volume





Source: IADB



# Anuncios de inversión extranjera directa

110,744

2023

(millones de dólares)

64,703

ene - sep 2024

(millones de dólares)



#### **TOTAL NEARSHORING**

OPPORTUNITIES BY COUNTRY
ADDITIONAL EXPORTS OF GOODS

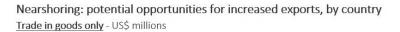
(M: US\$ MILLIONS, B: US\$ BILLIONS)









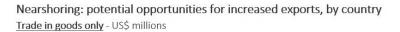


COUNTRY	Quick Wins - United States	Intra-LAC Quick Wins	Medium-Term Opportunities	Total
Argentina	890.7	1518.0	1497.8	3906.5
Bahamas	33.2	23.8	119.9	177.0
Belize	5.9	6.3	31.7	43.9
Bolivia	50.5	60.8	14.1	125.3
Brazil	4153.0	3144.3	546.8	7844.1
Barbados	9.7	42.8	8.1	60.6
Chile	665.8	516.0	641.1	1822.9
Colombia	1498.5	886.9	188.4	2573.8
Costa Rica	918.1	539.3	87.4	1544.8
Dominican Republic	1362.9	150.2	67.6	1580.7
Ecuador	482.0	285.8	72.8	840.7
Guatemala	436.4	293.8	55.5	785.7
Guyana	23.7	370.1	6.2	400.0
Honduras	745.1	418.7	79.0	1242.8
Haiti	237.2	11.4	4.4	253.1
Jamaica	84.9	25.8	27.8	138.5
Mexico	29679.4	2628.2	2970.6	35278.2
Nicaragua	473.3	78.2	17.0	568.5
Panama	81.3	549.2	171.5	802.0
Peru	792.0	498.0	128.4	1418.5
Paraguay	43.9	181.1	26.3	251.3
El Salvador	686.4	343.6	19.9	1049.9
Suriname	25.0	18.7	14.8	58.5
Trinidad and Tobago	87.9	304.5	84.3	476.7
Uruguay	69.3	369.5	89.4	528.2
Venezuela	218.4	48.7	53.8	320.9
Latin America and Caribbean (LAC)	43754.4	13313.7	7024.9	64093.0



Source: IADB





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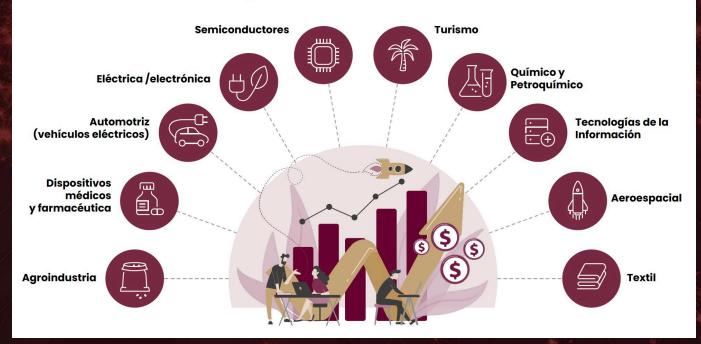


Source: IADB





# **Sectores Estratégicos**











# Highlighting how the shift from globalization to regionalization impacts trade patterns.

- •The transition from globalization to regionalization, driven by geopolitical tensions and supply chain disruptions, leads to the reconfiguring of international trade networks.
- •Regionalization promotes the development of more localized, resilient supply chains as companies seek to reduce their dependence on distant suppliers and tap into nearshoring opportunities.
- •The shift towards regionalization can result in increased trade flows between neighboring countries, as exemplified by the growing importance of U.S.-Mexico trade in North American economic integration.

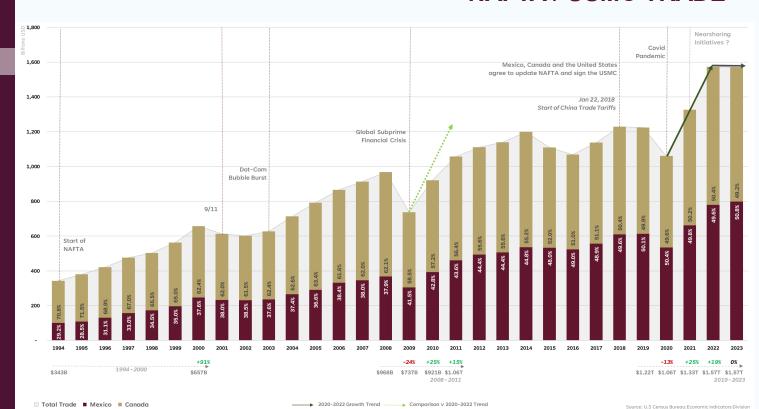


### **US TRADE**

#### **MEX / CAN**



## **NAFTA / USMC TRADE**

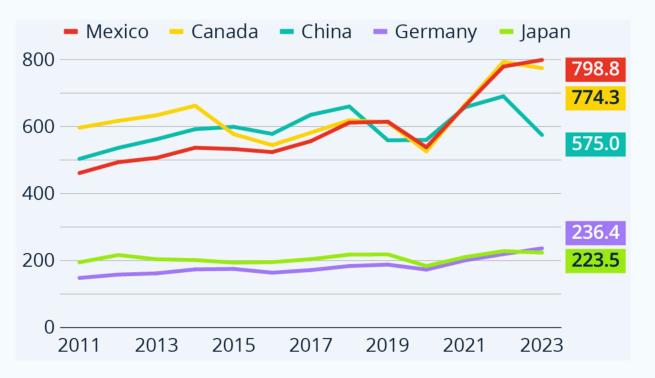


Analysis: Texas Center for Border conomic and Enterprise Development

# U.S. TOTAL TRADE



# U.S. TOTAL TRADE VALUE IMPORTS PLUS EXPORTS 2011-2023



Source:. Statista. U.S. Census Bureau Economic Indicators Division

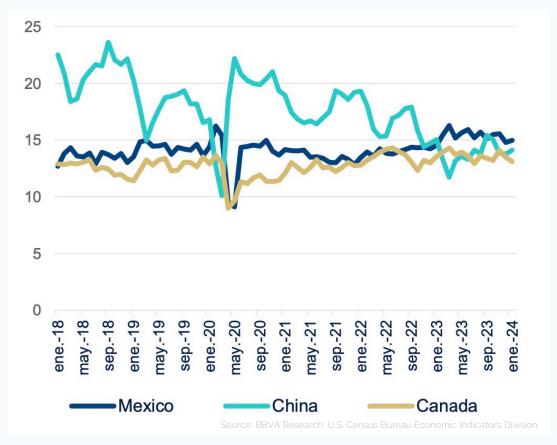
# U.S.

#### **IMPORTS**



#### **U.S. TOTAL IMPORTS VALUE**

MEXICO, CANADA & CHINA 2018-2024



#### U.S.

#### **IMPORTS**



#### **U.S. IMPORTS FROM MEXICO BY STATE**

**BILLIONS OF DOLLARS** 

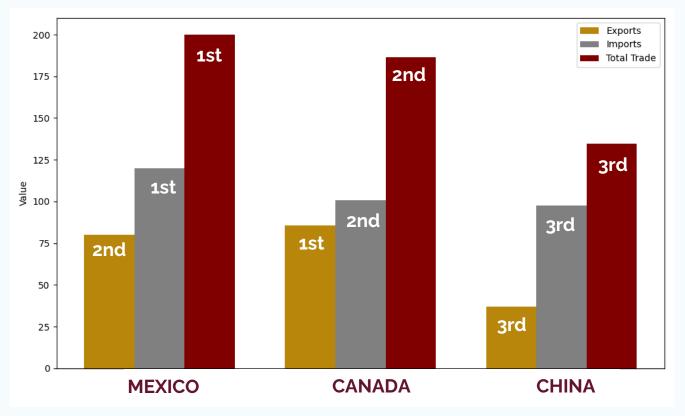


Source: BBVA Research. U.S. Census Bureau Economic Indicators Division,

# U.S. TOTAL TRADE

# TEXAS CENTER TEXAS A&M INTERNATIONAL UNIVERSITY

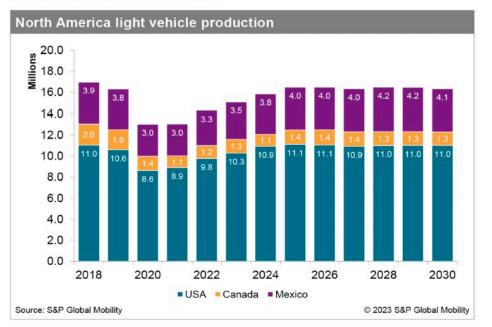
#### TOTAL U.S. TRADE YEAR-TO-DATE 2024 (AUGUST)





# North America production outlook

Intra-regional production shifts

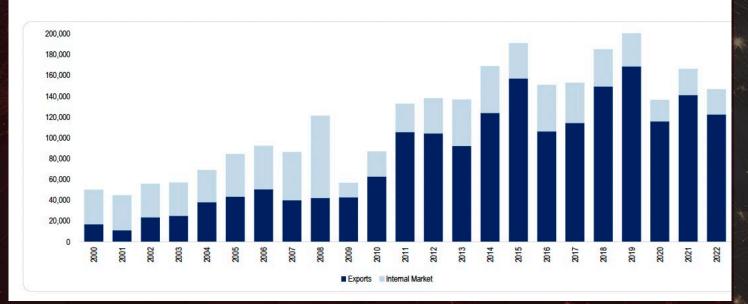




Source: Cluster Automotriz de Nuevo Leon (CLAUT) 2022



# Production of Heavy Vehicles in Mexico





Source: Cluster Automotriz de Nuevo Leon (CLAUT) 2022



## Key Indicators of the Automotive Industry in Mexico









# El T-MEC en cifras

30%

del PIB mundial

**501** 

millones de consumidores Comercio intra T-MEC

\$1.63

Billones de dólares

Equivalente a:

3.1 millones

de dólares por minuto

(Datos al cierre de 2023)



# The USMCA era marks a new chapter in North America trade relations.

- •Mexico has surpassed Canada as the top U.S. trading partner, with imports from Mexico outpacing those from China for the first time in 2023.
- •U.S. imports from Mexico and Canada have shown steady growth, while imports from China have declined. However, imports from China increased in July.
- •Texas, California, and Michigan lead the nation in imports from Mexico, highlighting the strong regional ties in cross-border trade.
- •Implementing the USMCA and U.S. tariffs on Chinese goods has contributed to the shifts in trade patterns, favoring closer economic integration between the U.S., Mexico, and Canada.







## **Laredo Trade Outlook**



#### **Share of Total U.S. Trade**

2023 Top 5 Ports of Entry (POE)

\$1.41 Trillion

28% TOP 5 POE

W.S. Trade w/World \$5.1 Trillion \$348 Billion

22%

W/USMC \$1.6 Trillion \$318 Billion 40%

W.S. Trade w/Mexico \$799 Billion





## **Laredo Trade Outlook**



# Top 5 U.S. Ports of Entry 2023 Total Import/Export Trade Value

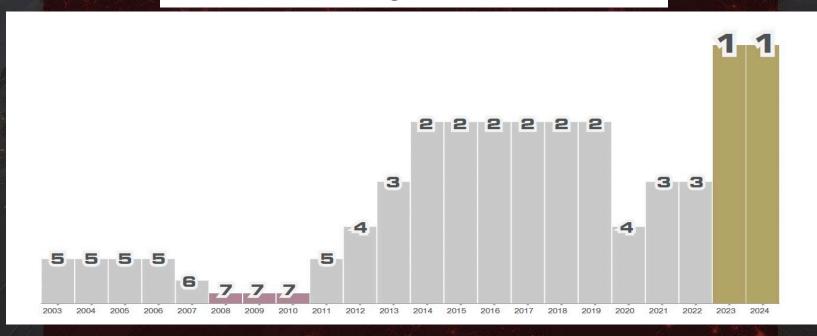
- \$321billion Laredo, TX
- \$311 billion Chicago, IL
- \$293 billion Los Angeles, CA
- \$248 billion JFK Int'l Airport
- \$239 billion Newark, NJ







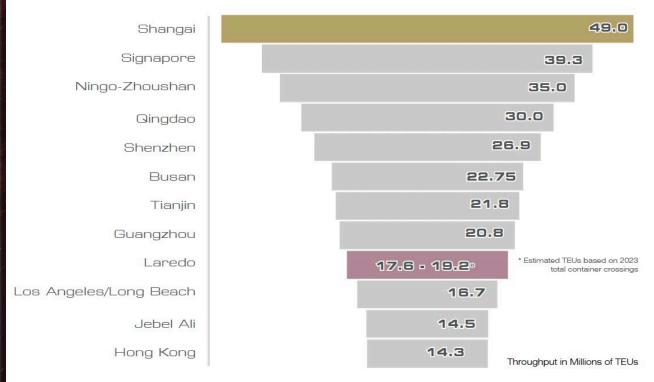
# Port of Laredo Yearly Ranking vs Other U.S. POE Figure 1





# 2023 Port of Laredo Placement Within the Largest Ports in the World Based on Throughput Figure 2

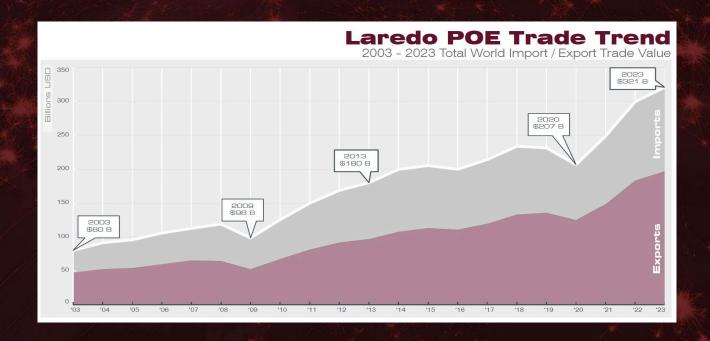






# **Laredo Trade Outlook**







Source: U.S. Census Bureau Economic Indicators Division, U.S. Bureau of Transportation Statistics, City of Laredo Building Development Services

#### **Laredo Trade Outlook**



### Commodity Transportation 2023 Container Crossings into U.S. through Border POE



Truck Container Crossings

3.1 Million Truck Containers Crossing into the U.S.

\$261 Billion
Total Import/Export Traded Value



Rail Container Crossings

531,566
Rail Containers Crossing into the U.S.

\$50 Billion
Total Import/Export Traded Value

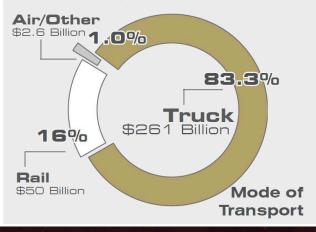


#### **Laredo Trade Outlook**



#### **Total World Import / Export Trade**

2023 Laredo POE



#### Top Exports

- Machinery, Boilers \$22.2 Billion
- Vehicles and Parts \$18.6 Billion
- Electric Machinery \$15.1 Billion
  - Plastics \$10.8 Billion
  - Mineral Fuel, Oil \$4.5 Billion

- Vehicles and Parts \$62.2 Billion
- Machinery, Boilers \$40.1 Billion
- Electric Machinery \$33.1 Billion
- Furniture, Bedding \$6.3 Billion
- | Iron or Steel Articles | \$4.6 Billion |

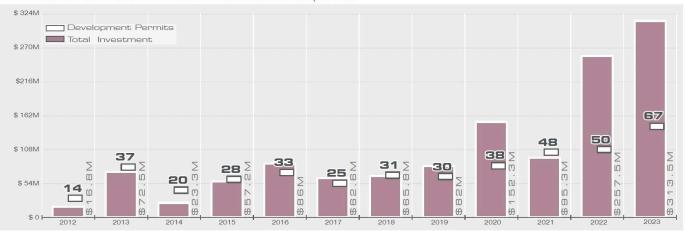
Top Imports



#### **Laredo Trade Outlook**



## Logistics Facilities Laredo POE Warehouse & Industrial Park Development

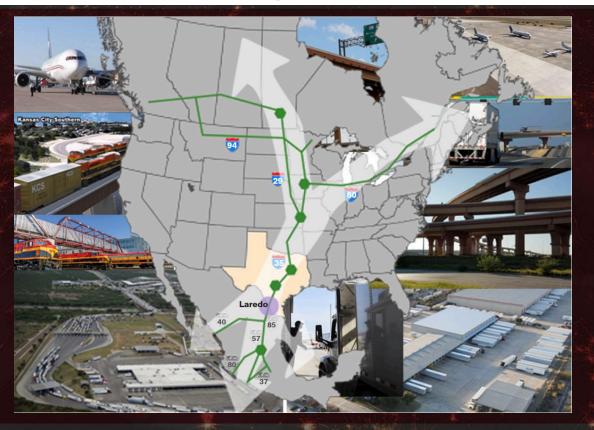




Source: U.S. Census Bureau Economic Indicators Division, U.S. Bureau of Transportation Statistics, City of Laredo Building Development Services

#### Port Laredo's Geographical Advantage and State of the Art Facilities Figure 3







Source: Marine Insight https://www.marineinsight.com/ports/top-10-busiest-ports-in-the-world/ U.S. Bureau of Transportation Statistics, City of Laredo Bridge System, Port of Long Beach, Port of Los Angeles,

#### Port Laredo's Geographical Advantage and State of the Art Facilities Figure 3







Source: Marine Insight https://www.marineinsight.com/ports/top-10-busiest-ports-in-the-world/ U.S. Bureau of Transportation Statistics, City of Laredo Bridge System, Port of Long Beach, Port of Los Angeles,

## Port Laredo's rise to the top showcases its efficiency, strategic location, and infrastructure.

- •Port Laredo emerged as the top U.S. port of entry in 2023, surpassing Chicago O'Hare Airport and the Port of Los Angeles.
- •The port's truck throughput ranks 9th globally, surpassing major seaports like Guangzhou and Los Angeles/Long Beach.
- •In 2023, Port Laredo facilitated \$321 billion in total trade value, experiencing significant growth in key sectors like vehicles and electric machinery.
- •Substantial investments in warehouse and industrial park development underscore Laredo's expanding capacity to accommodate future trade growth.





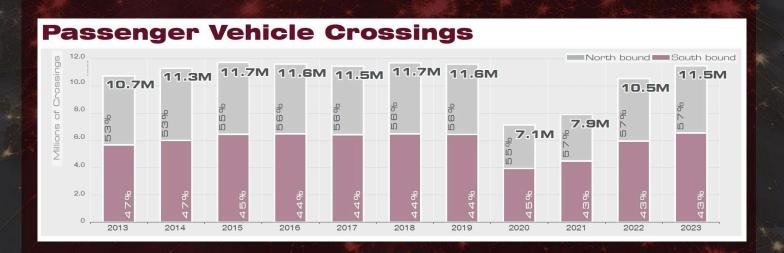






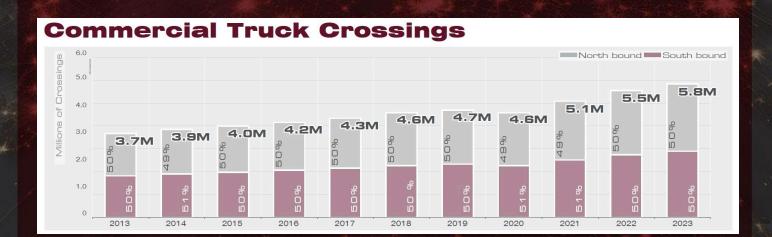














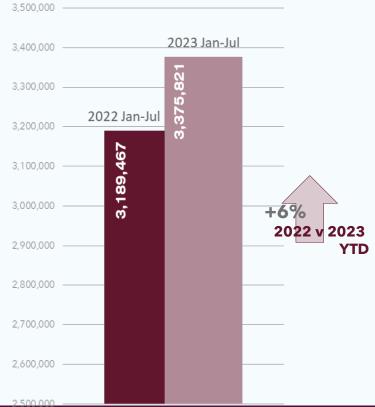
#### **LAREDO**

2022 -2023

NORTH-SOUTH BOUND



#### TRUCK CROSSINGS









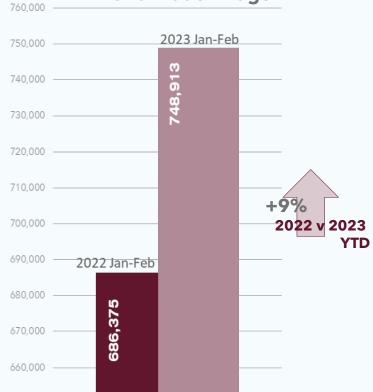
#### **LAREDO**

2022-2023

NORTH-SOUTH BOUND



#### **World Trade Bridge**



#### TRUCK CROSSINGS







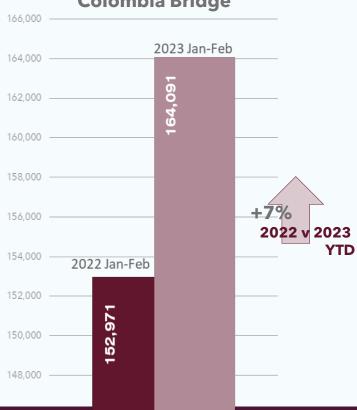
#### LAREDO

2022-2023

NORTH-SOUTH BOUND



#### **Colombia Bridge**



#### TRUCK CROSSINGS





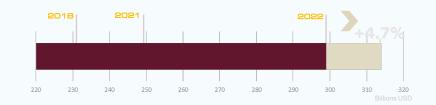


#### **LAREDO TRUCK CROSSINGS**

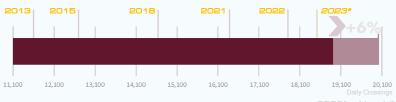
#### **NEARSHORING IMPACT**







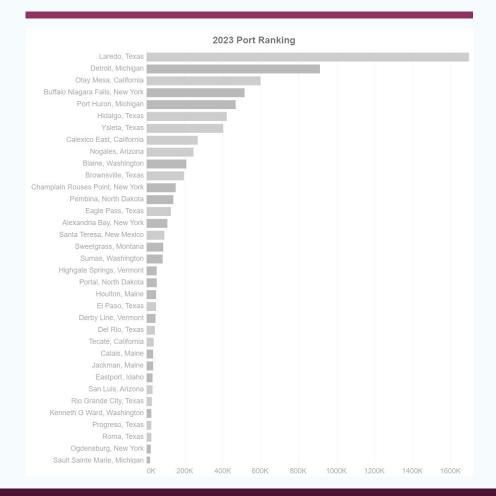




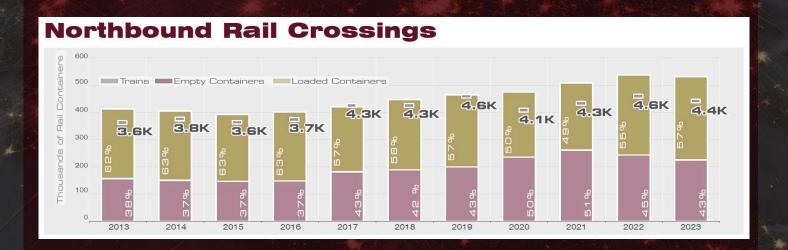


IN-BOUND (USA) 2023

## TRUCK CROSSINGS







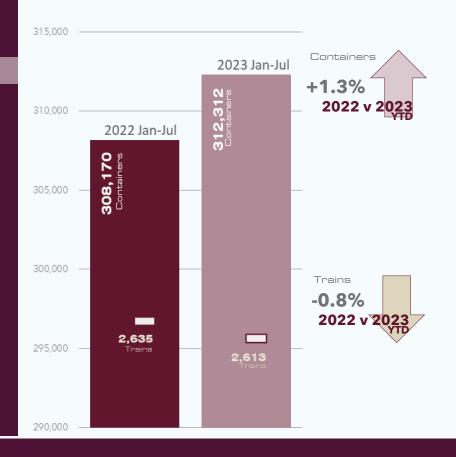


#### **IN-BOUND**

(TX)

#### 2022 -2023 LAREDO POE





#### **RAIL CROSSINGS**

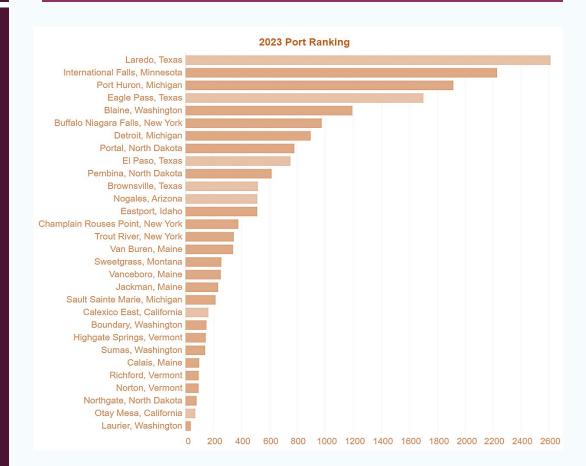






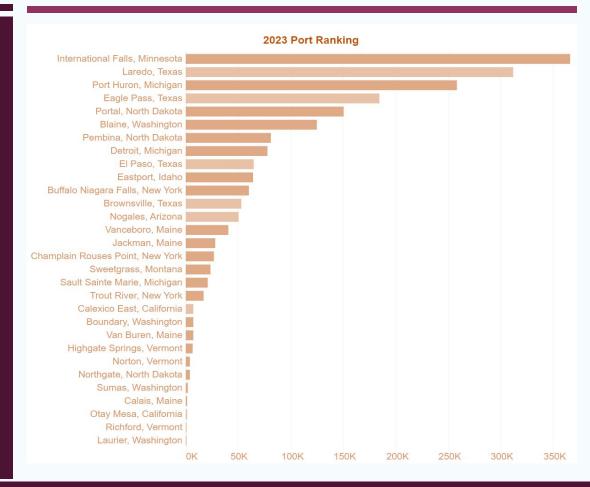
IN-BOUND (USA) 2023

# RAIL CROSSINGS: TRAINS



IN-BOUND (USA) 2023

# RAIL CROSSINGS: CONTAINERS



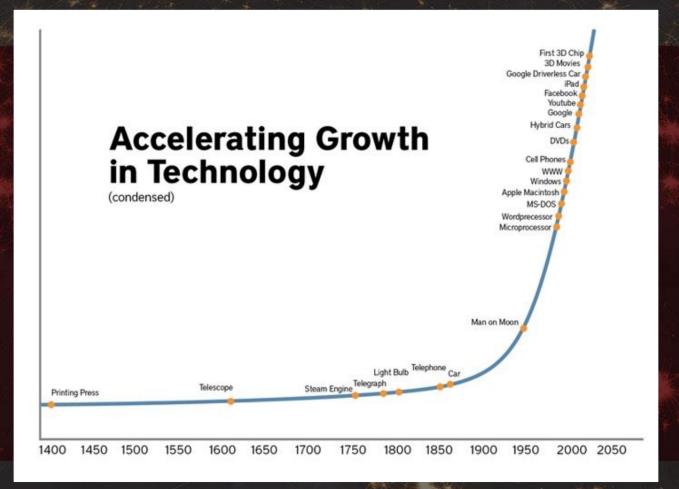
## As trade volumes continue to surge, investments in bridge infrastructure and technology upgrades are crucial to maintaining Laredo's competitive advantage.

- •Laredo's international bridges witnessed substantial growth in cross-border traffic, with a 6% increase in north and south-bound truck crossings from 2022 to 2023.
- •The World Trade Bridge experienced a remarkable 10% growth in truck crossings, handling an average of nearly 15,000 trucks per day in 2023.
- •Colombia Bridge also saw a 7% increase in truck crossings, with a daily average of of over 3,000 trucks in 2023.
- •Laredo's rail infrastructure plays a vital role in facilitating trade, with a 1.3% increase in rail crossings from 2022 to 2023 despite a slight decrease in loaded containers.



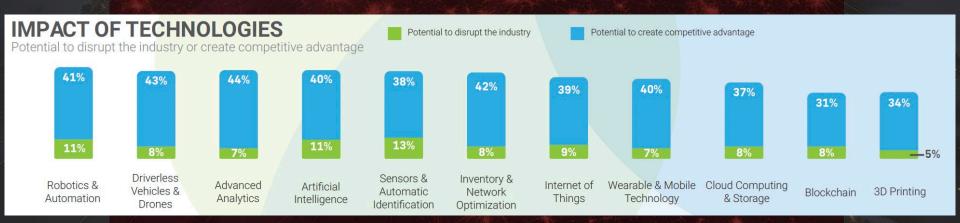








Source: Asgard Human Venture Capital for Artificial Intelligence





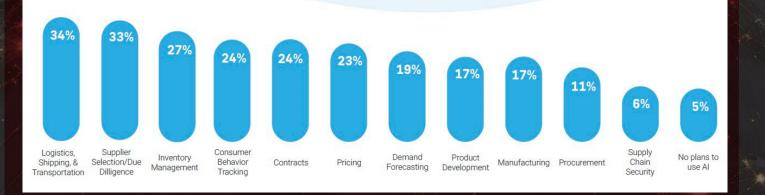
44%

#### INCORPORATING TECHNOLOGY

Reason for merging supply chain technology with human-managed activities

#### **USE OF ARTIFICIAL INTELLIGENCE**

Current or predicted adoption of AI within 2 years



#### **TOP SUPPLY CHAIN CHALLENGES**

Top 5 company challenges rated extremely or very challenging



The lack of a clear business case was the **number 1** biggest barrier to adoption for every technology over the past five years.

	8	8	8		8		8	8	8	8	8	8	8	
	9	9	9		9		9	9	9	9	9	9	9	
	1	1	1		1		1	1	1	1	1	1	1	11
_	2	2	2	П	2	П	2	2	2	2	2	2	2	
	3	3	3		3		3	3	3	3	3	3	3	

In 2023, the lack of adequate talent to implement and use these technologies was the **number 1** reason for the biggest barrier to the adoption of each technology.

#### LOGISTECHS & ITS IMPACT

The readiness gap for Harnessing technology





My organization is very ready to use technology to improve work outcomes and team performance.



Using technology to improve work outcomes and team performance is very important or important to my organization's success

## LO · GIS · TECHS

represents the impact that exponential technologies have on logistics and can be classified as the technologies that support the transport of goods, those that improve their handling, and the ones that expedite their customs clearance.



### **LOGISTECHS**

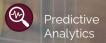


LOGISTECHS

Redu Co

Drones

Artificial Intelligence



Autonomous Vehicles



Robotics and Automatization

#### **CUSTOMS CLEARANCE**

Speed



Predictive Analytics



Blockchain



Artificial Intelligence



## KEY POINTS THAT YOU NEED TO KNOW

- Focus on U.S.-Mexico trade challenges
- Highlights the growing role of cross-border trade
- Examines the impact of exponential technologies on logistics
- Discusses challenges of the "digital wall" in trade
- Introduces the new "LOGISTECHS" concept for the digital era

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