



TRANSPORTATION SHORT COURSE

NINETY SEVENTH ANNUAL





From Globalization to Regionalization: Analysis of Texas Cross-Border Goods Movement

Daniel Covarrubias, Ph.D.

INDEX

01 International Trade

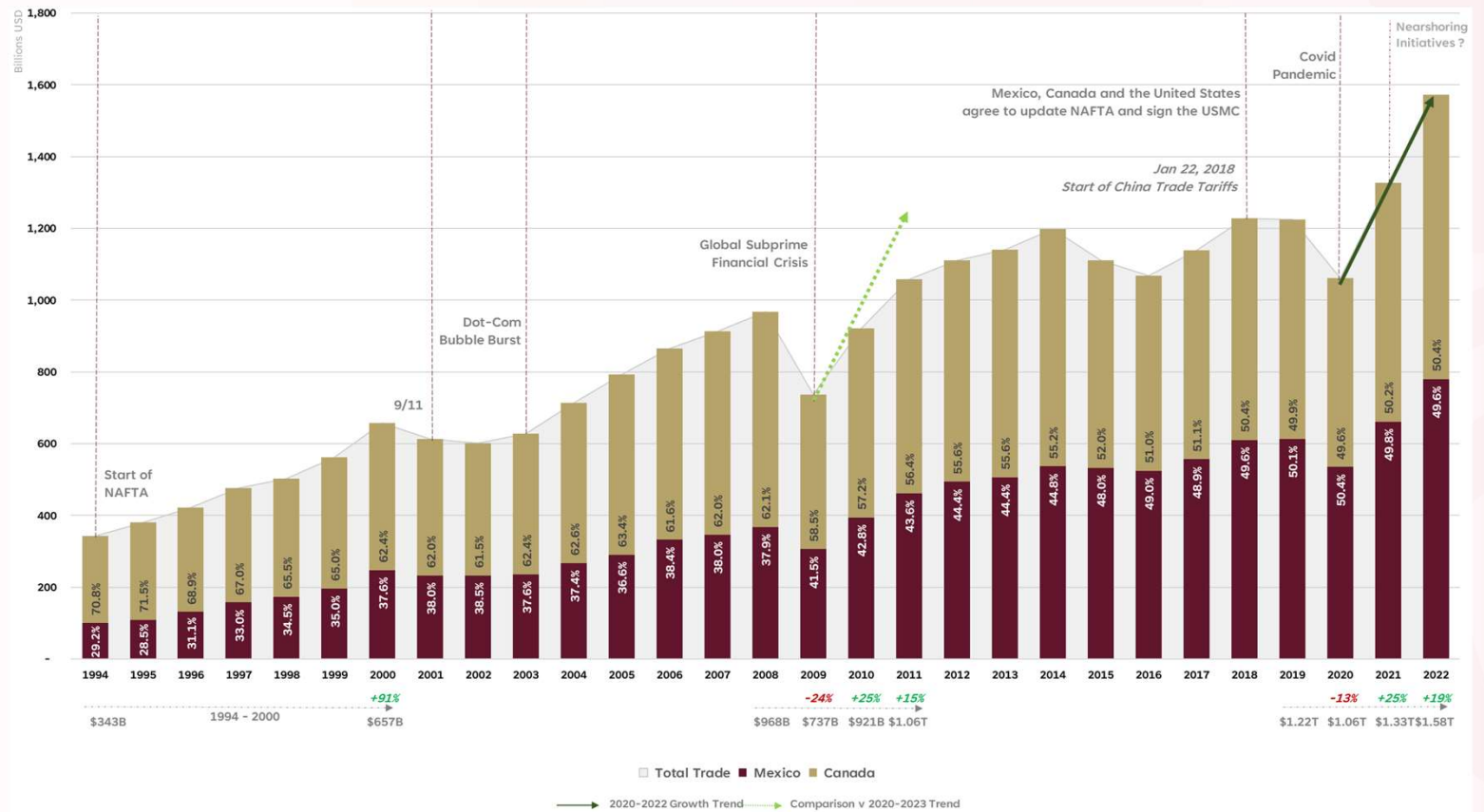
02 Nearshoring

03 Smart Borders

US TRADE MEX / CAN



NAFTA / USMC TRADE

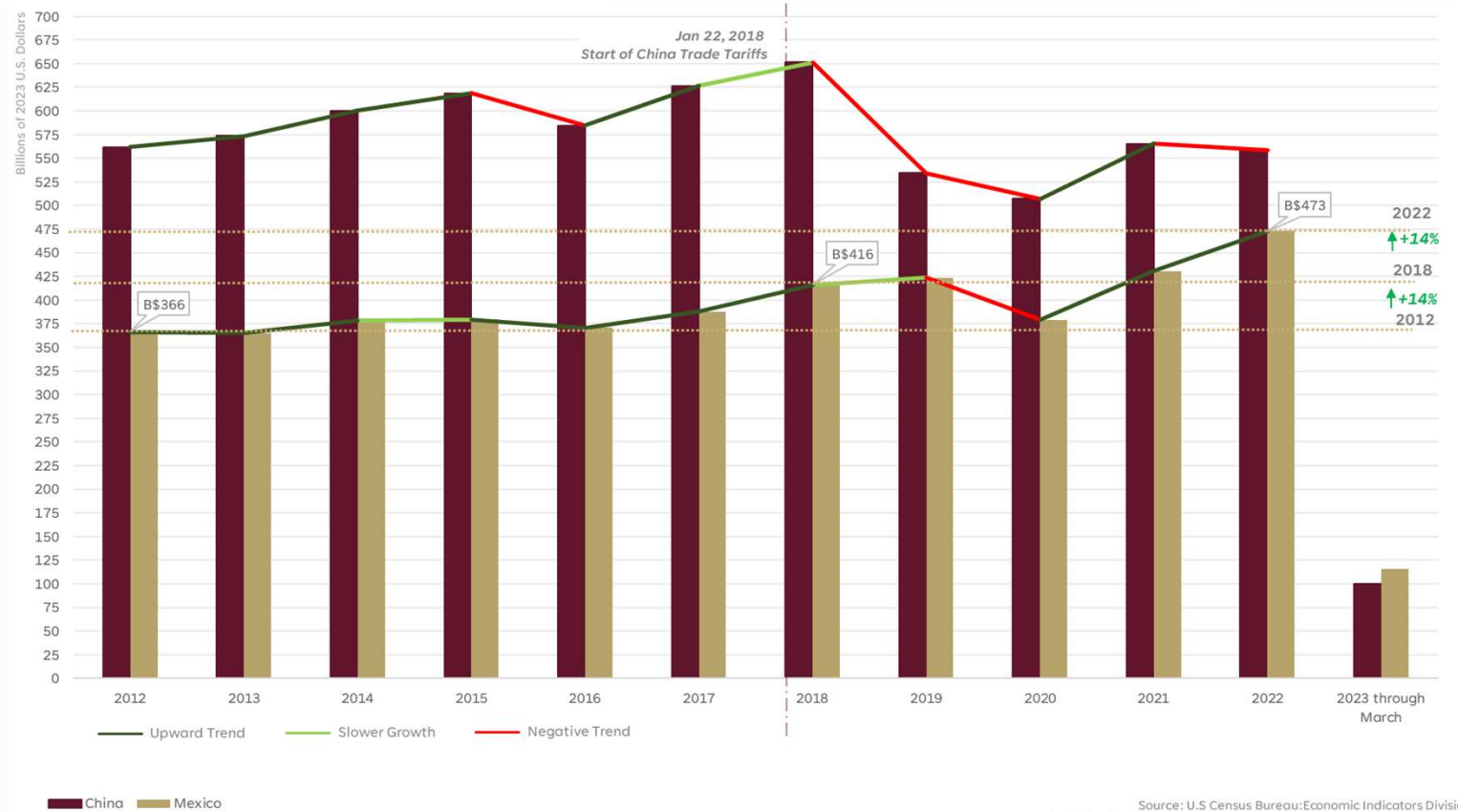


Source: U.S. Census Bureau; Economic Indicators Division
Analysis: Texas Center for Border Economic and Enterprise Development

U.S. IMPORTS



U.S. TOTAL IMPORTS VALUE MEXICO VS CHINA 2012-2023 (ADJUSTED FOR INFLATION)

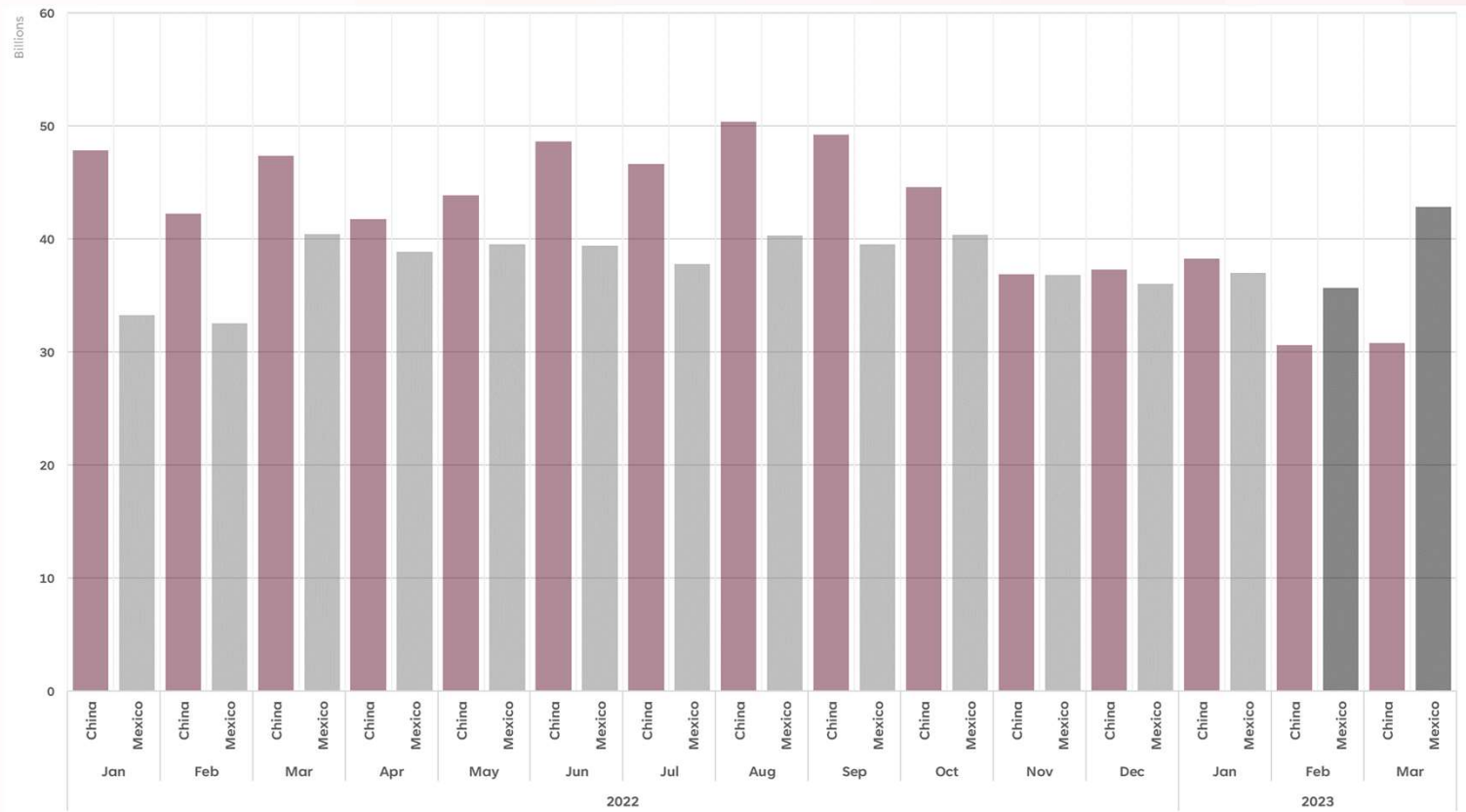


Source: U.S. Census Bureau; Economic Indicators Division
 Analysis: Texas Center for Border Economic and Enterprise Development

U.S. IMPORTS



MONTHLY TOTAL U.S. IMPORTS MEXICO VS CHINA JANUARY 2022 - MARCH 2023



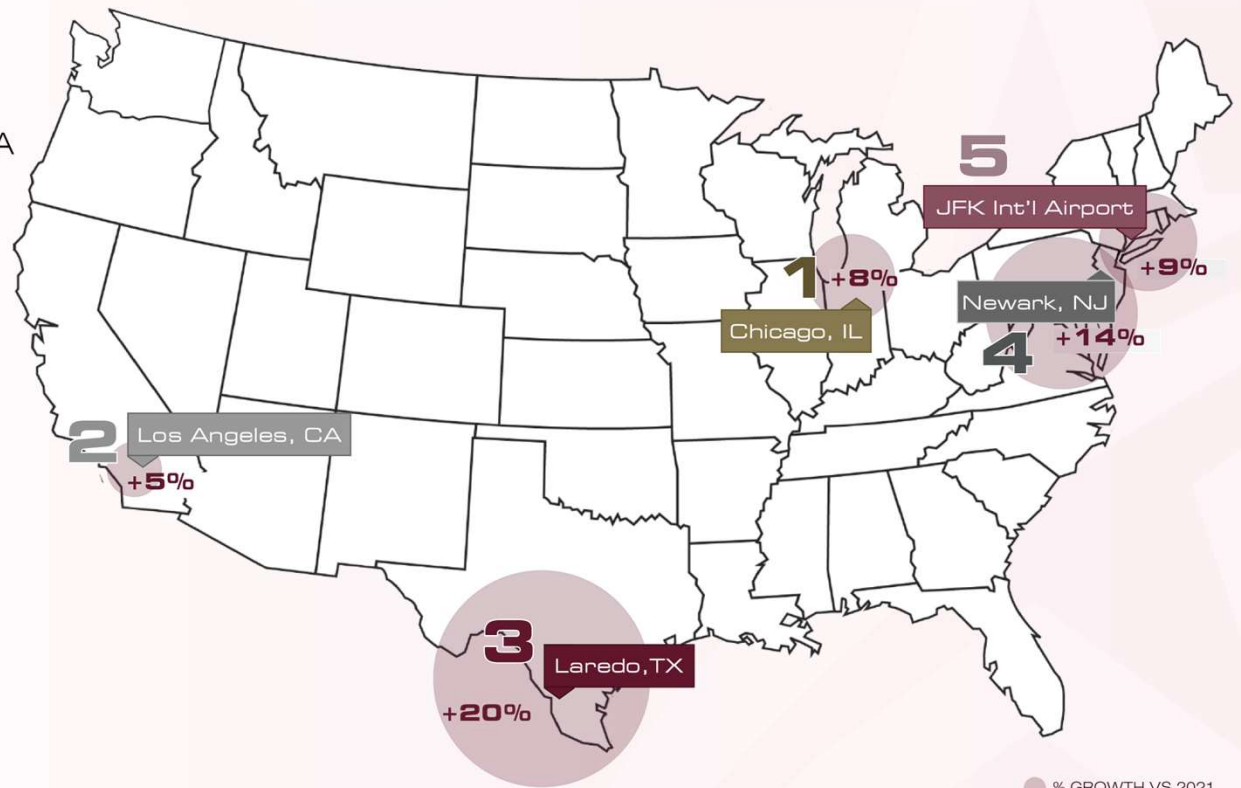
Source: U.S. Census Bureau; Economic Indicators Division
Analysis: Texas Center for Border Economic and Enterprise Development

U.S. PORTS



2022 TOP 5 U.S. PORTS OF ENTRY BY TOTAL TRADE VALUE

- 1 \$330 billion
Chicago, IL
- 2 \$312 billion
Los Angeles, CA
- 3 \$299 billion
Laredo, TX
- 4 \$259 billion
Newark, NJ
- 5 \$258 billion
JFK Int'l Airport

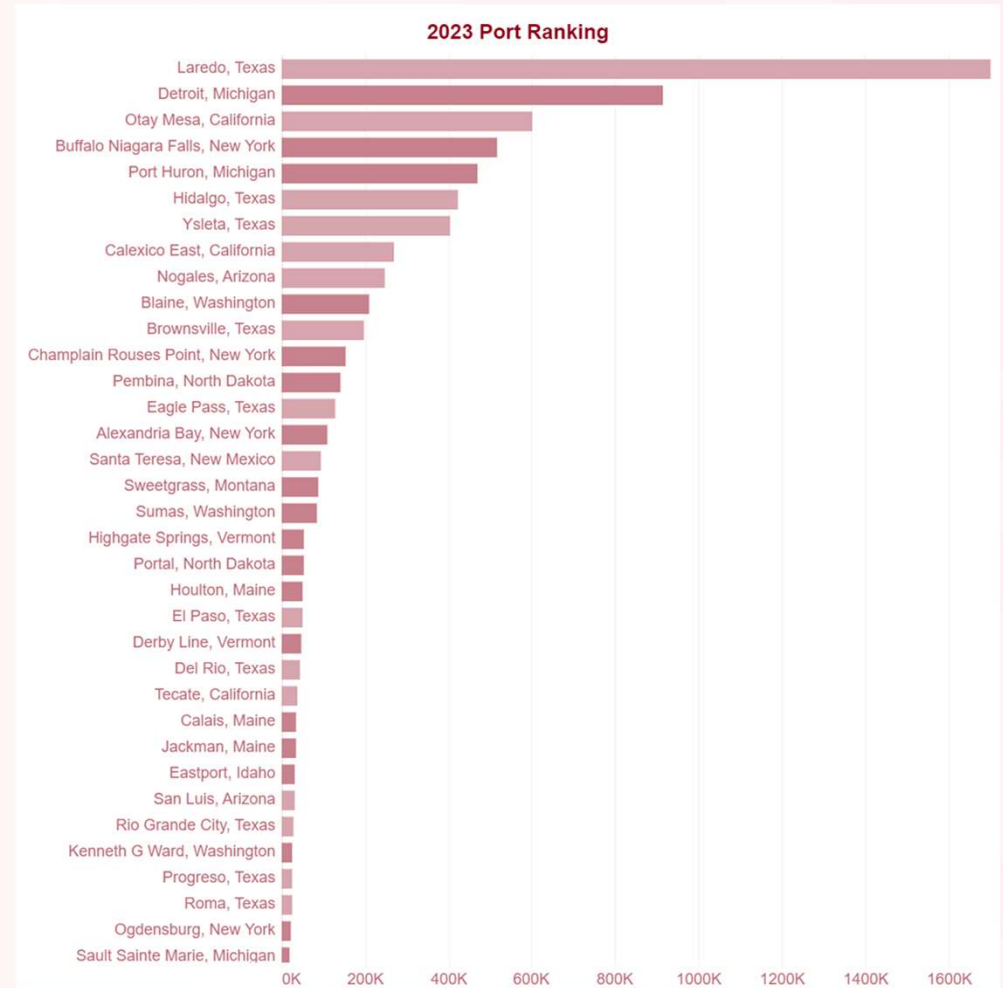


● % GROWTH VS 2021

IN-BOUND (USA)

2023

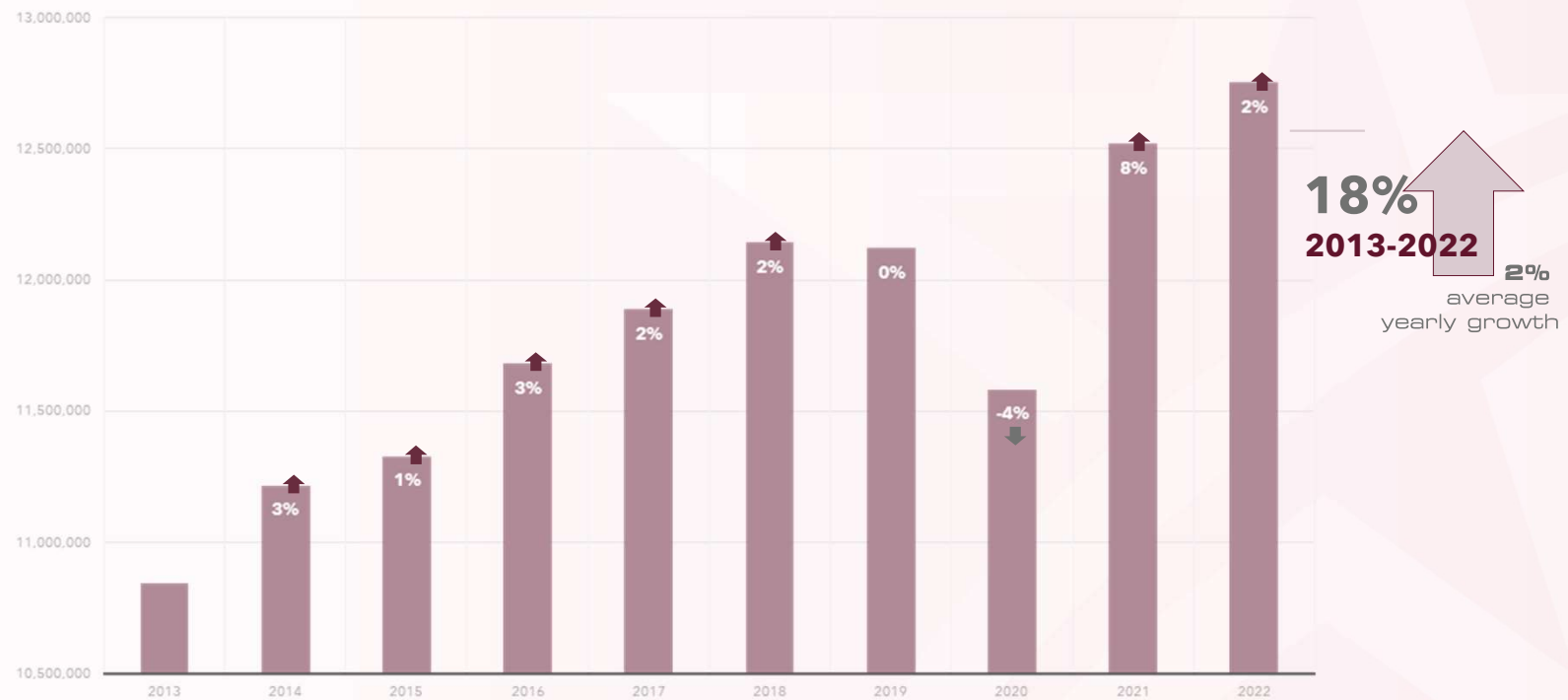
TRUCK CROSSINGS



IN-BOUND (USA)

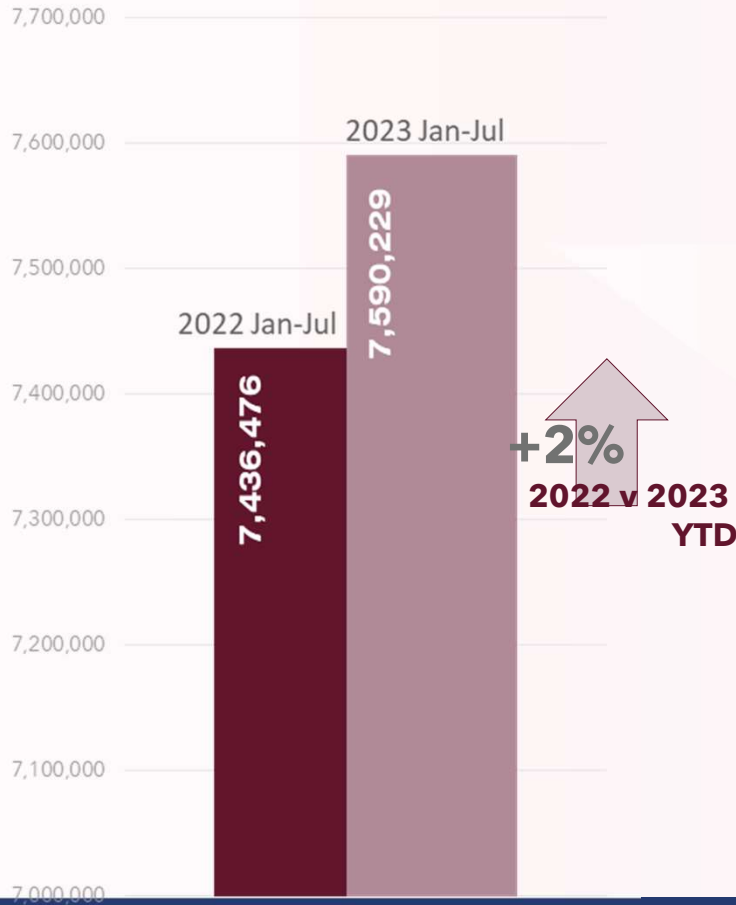
2013 - 2022

TRUCK CROSSINGS

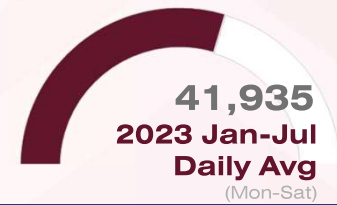
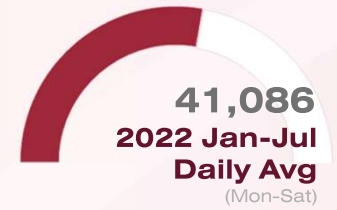
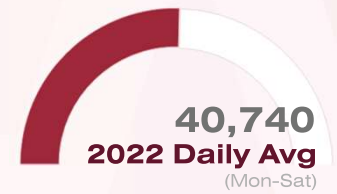


IN-BOUND (USA)

2022 - 2023



TRUCK CROSSINGS

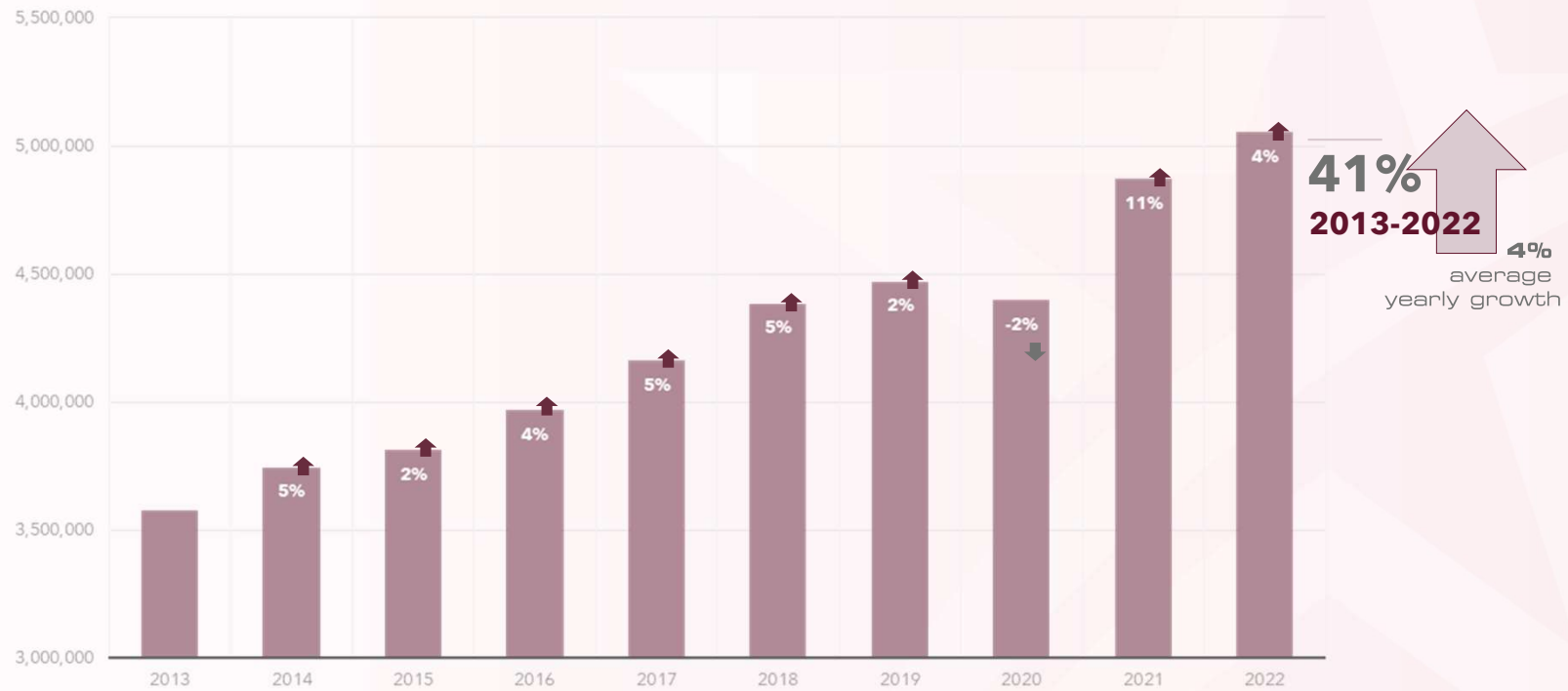


IN-BOUND

(TX)

2013 -
2022

TRUCK CROSSINGS



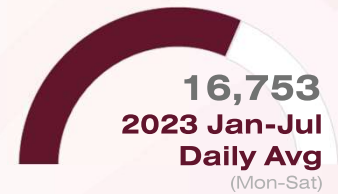
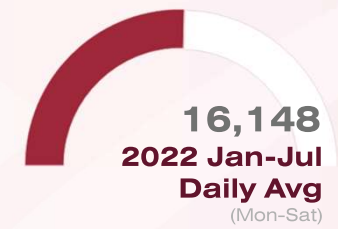
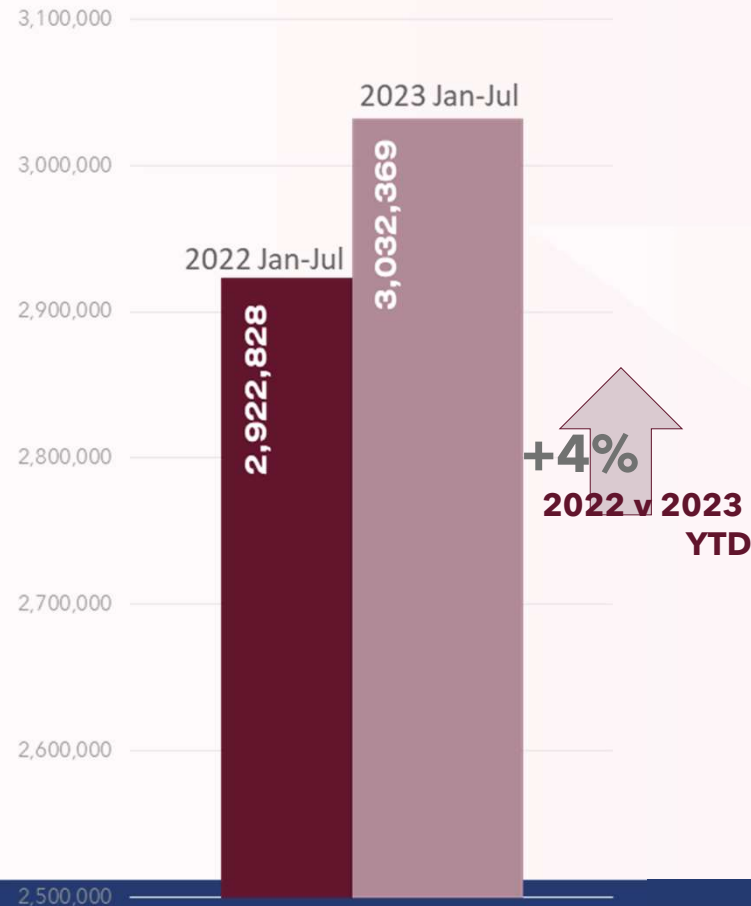
IN-BOUND

(TX)

2022 - 2023



TRUCK CROSSINGS



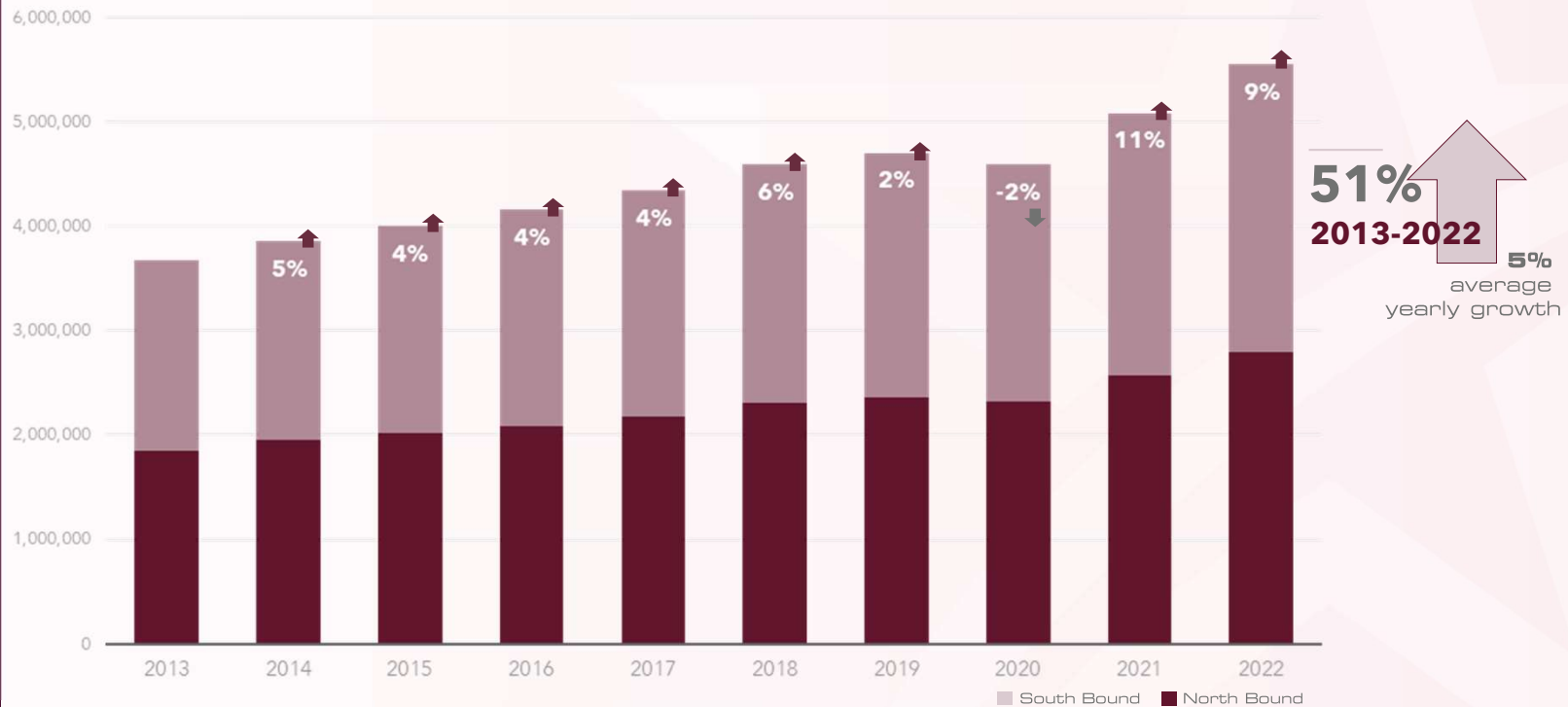
LAREDO

2013 -2022

NORTH-SOUTH
BOUND



TRUCK CROSSINGS



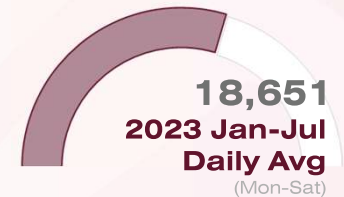
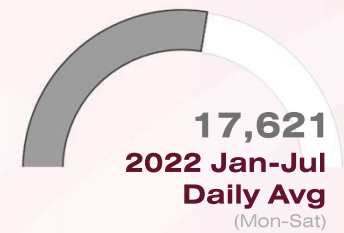
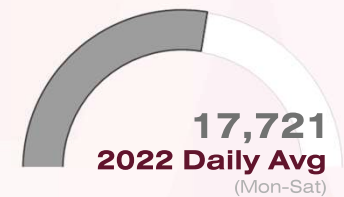
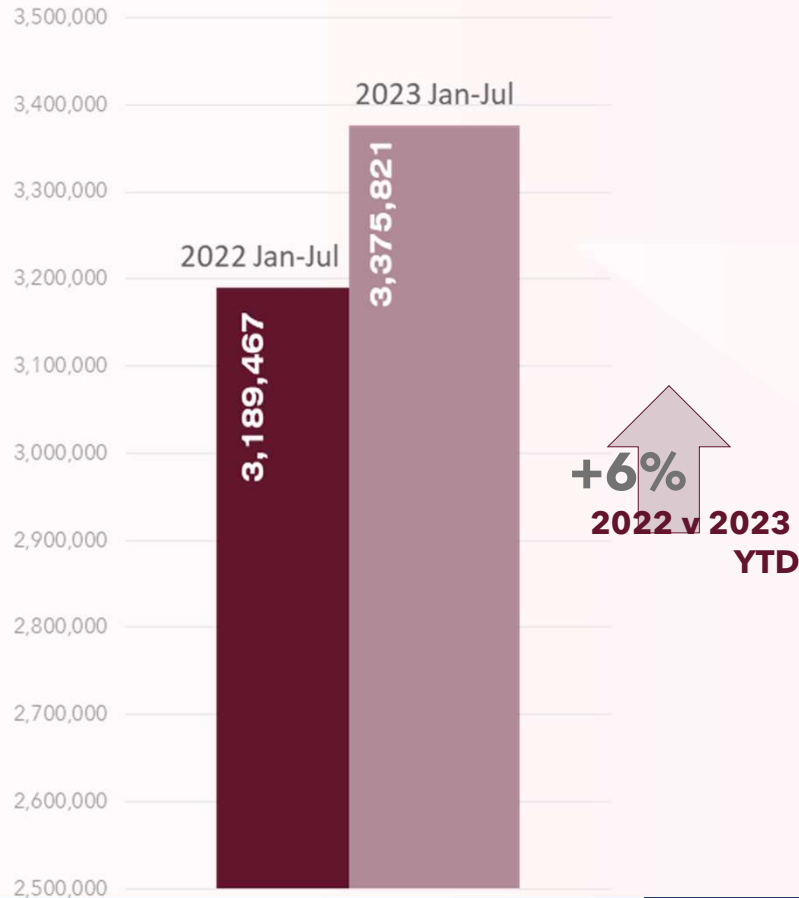
LAREDO

2022 -2023

NORTH-SOUTH BOUND



TRUCK CROSSINGS



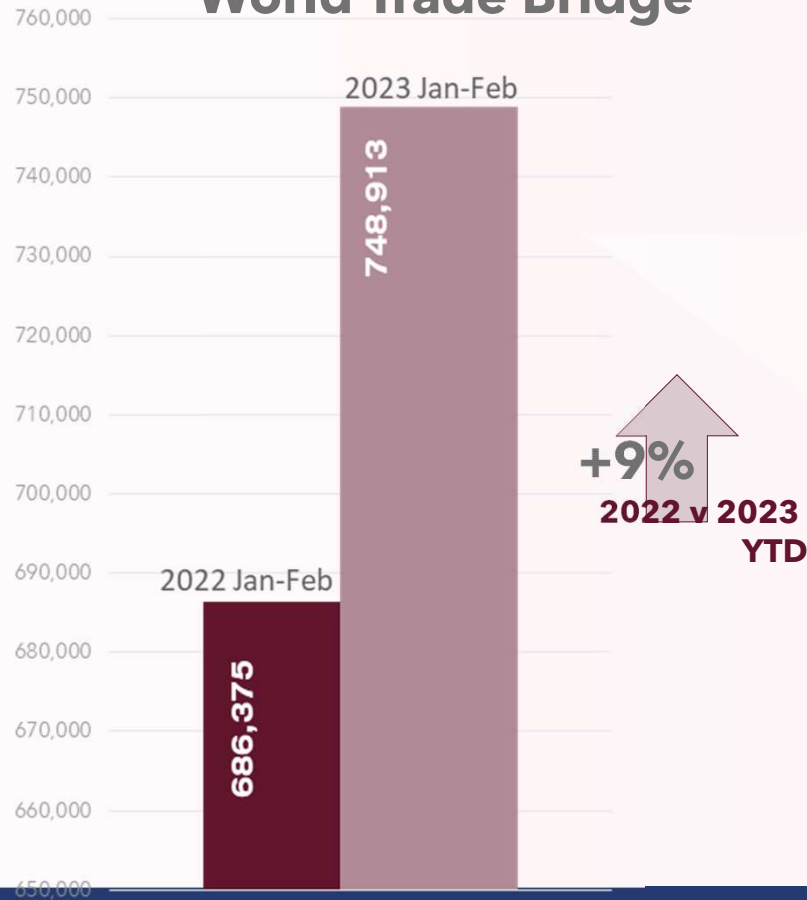
LAREDO

2022-2023

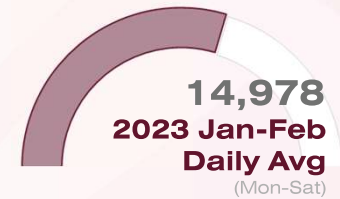
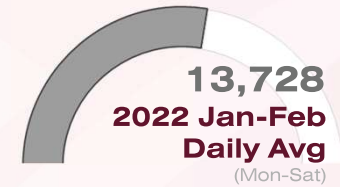
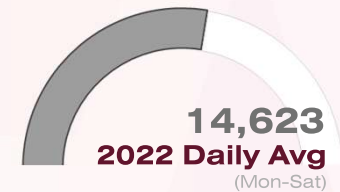
NORTH-SOUTH
BOUND



World Trade Bridge



TRUCK CROSSINGS



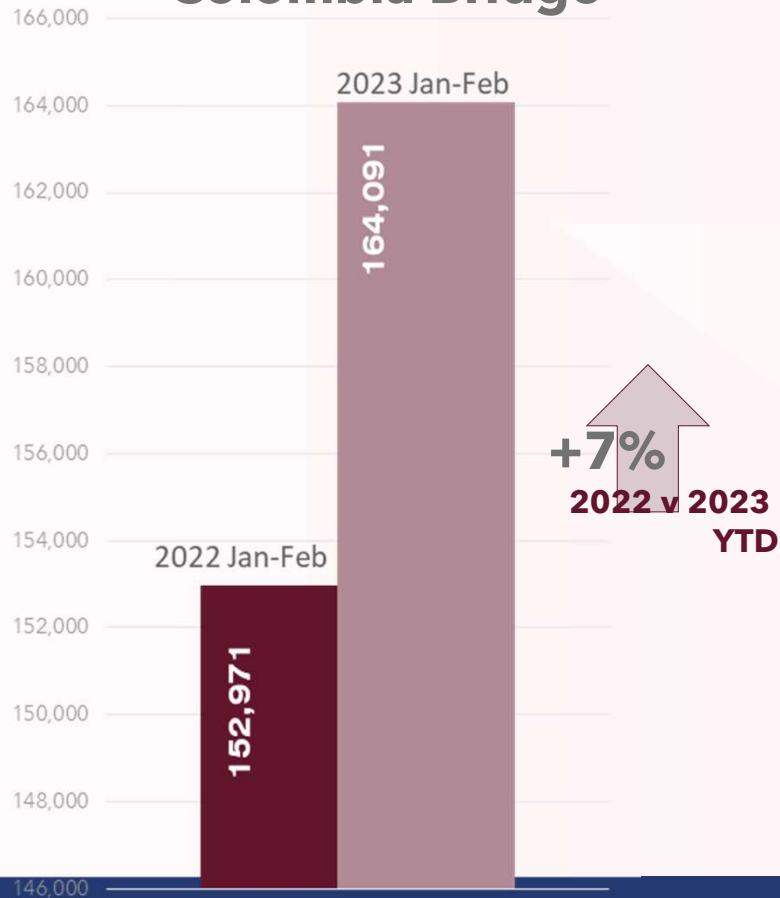
LAREDO

2022-2023

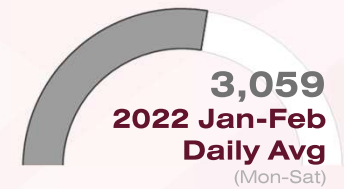
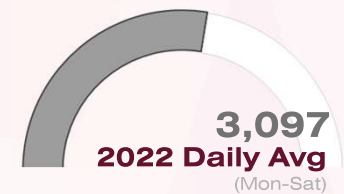
NORTH-SOUTH
BOUND



Colombia Bridge



TRUCK CROSSINGS



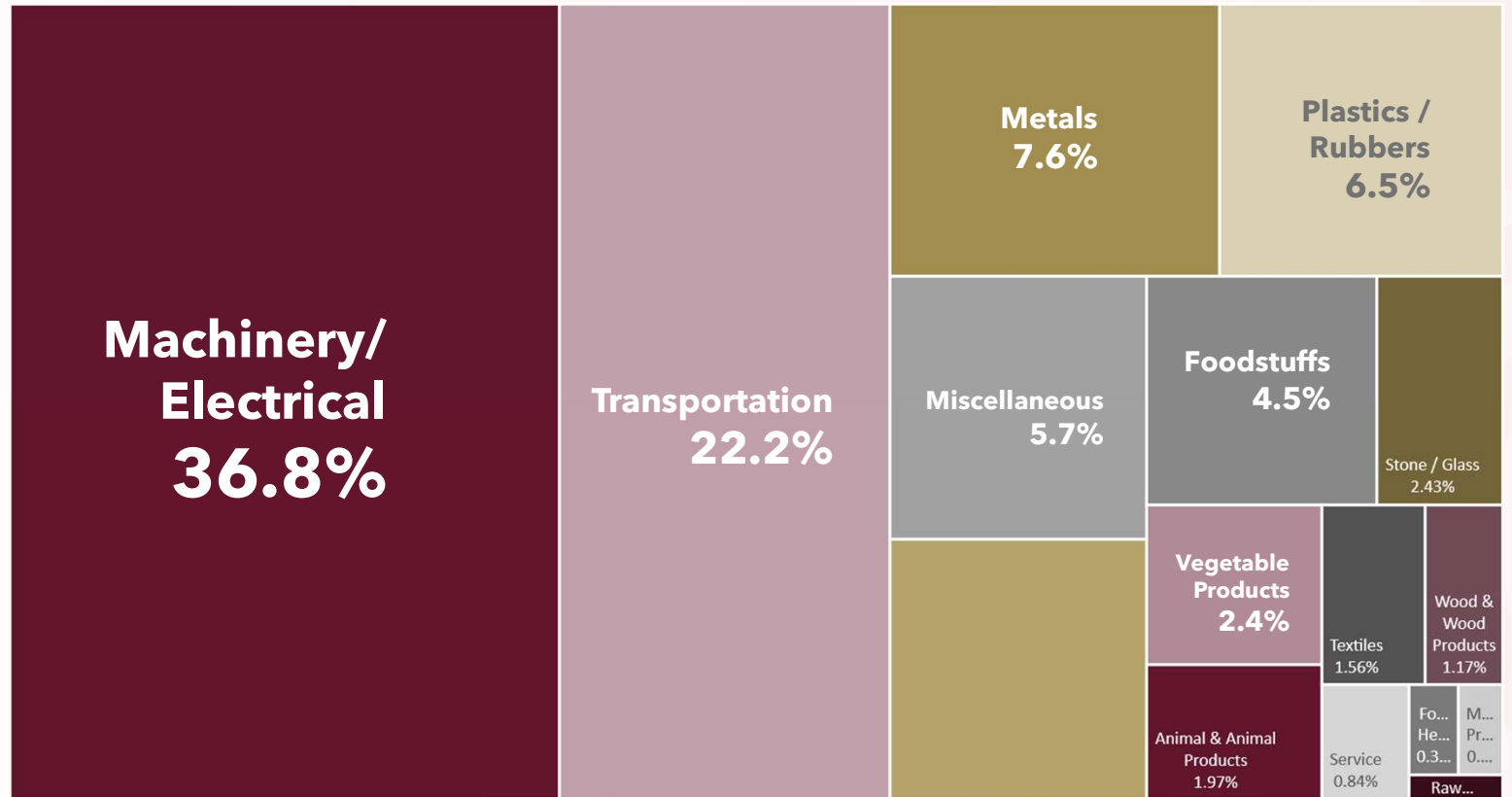
LAREDO POE

2023 JAN-JUL

TRUCK



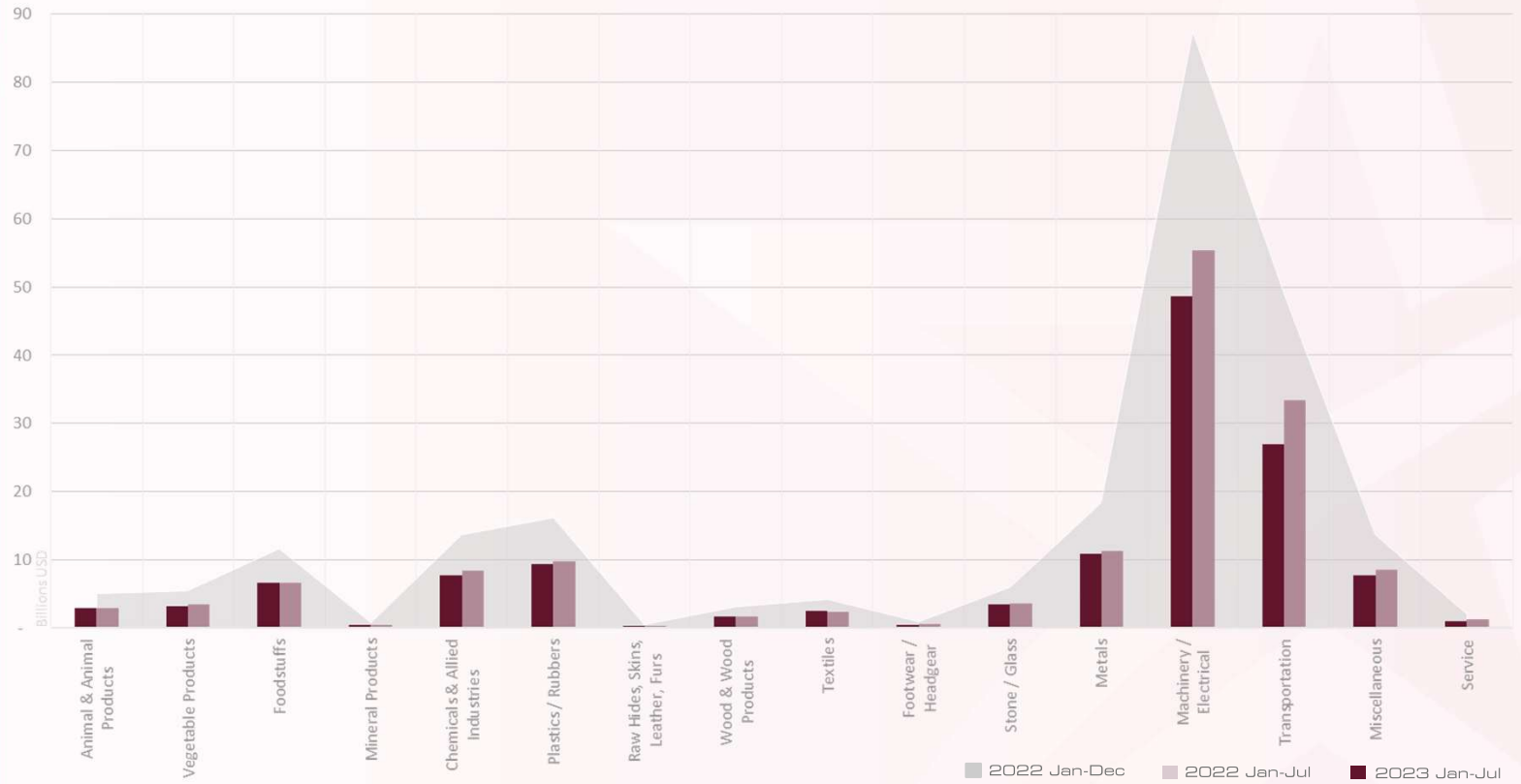
TOTAL TRADE SHARE BY COMMODITY GROUP



LAREDO POE TRUCK



TOTAL TRADE VALUE

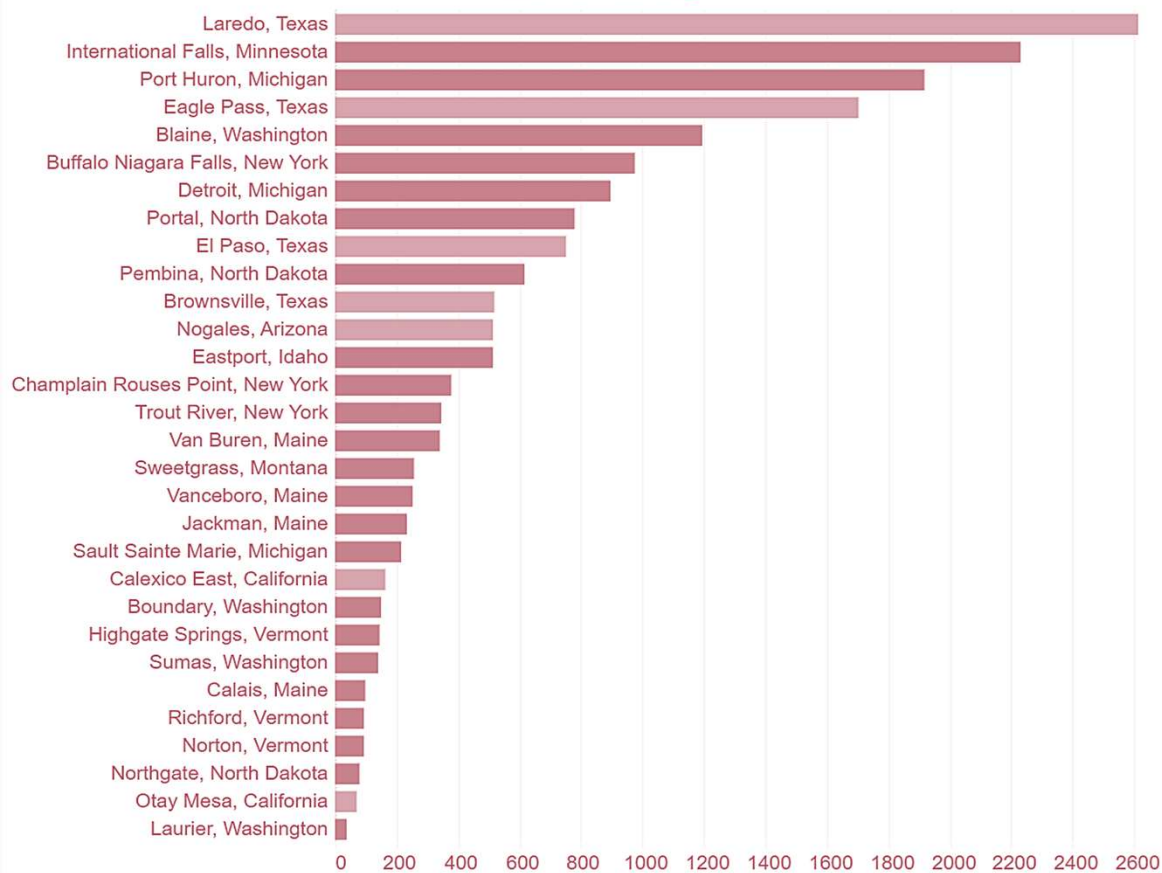


IN-BOUND (USA)

2023

RAIL CROSSINGS: TRAINS

2023 Port Ranking

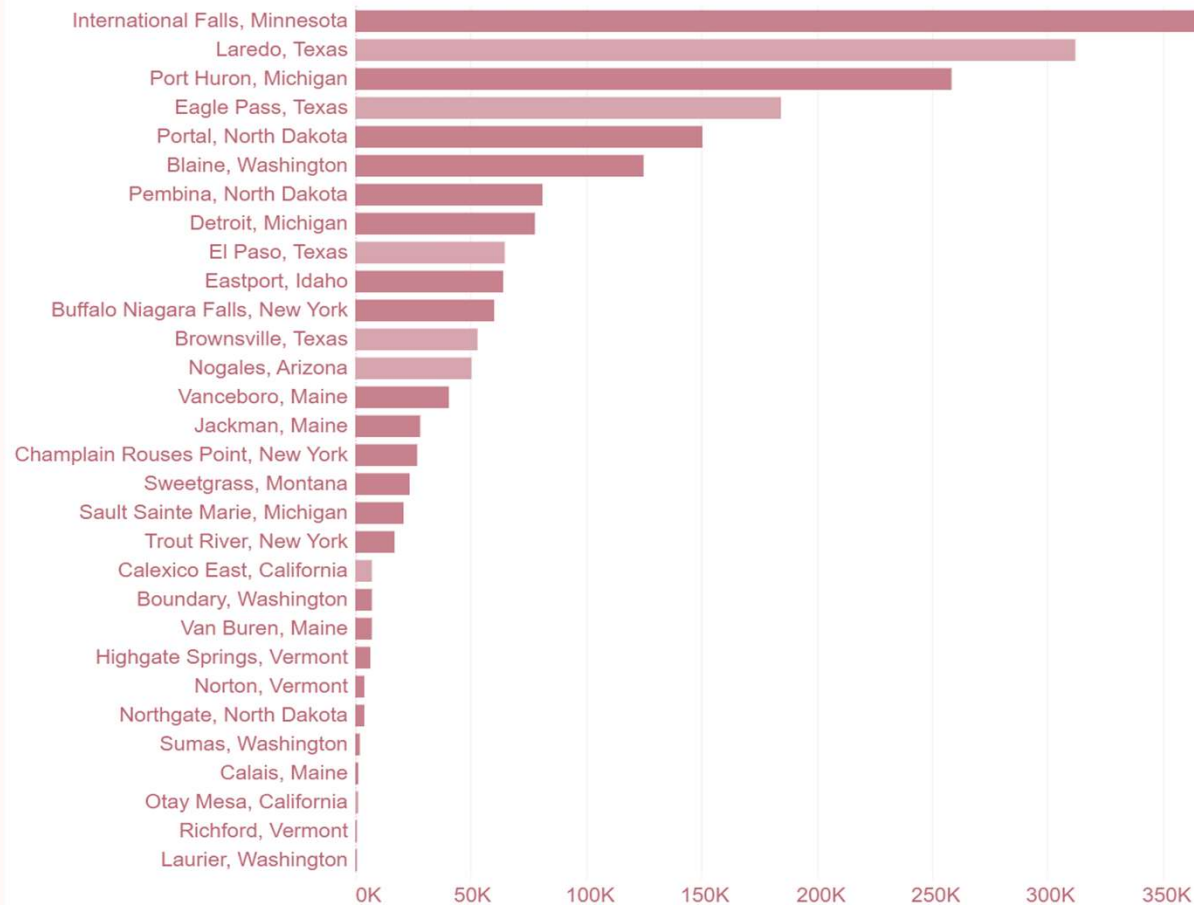


IN-BOUND (USA)

2023

RAIL CROSSINGS: CONTAINERS

2023 Port Ranking

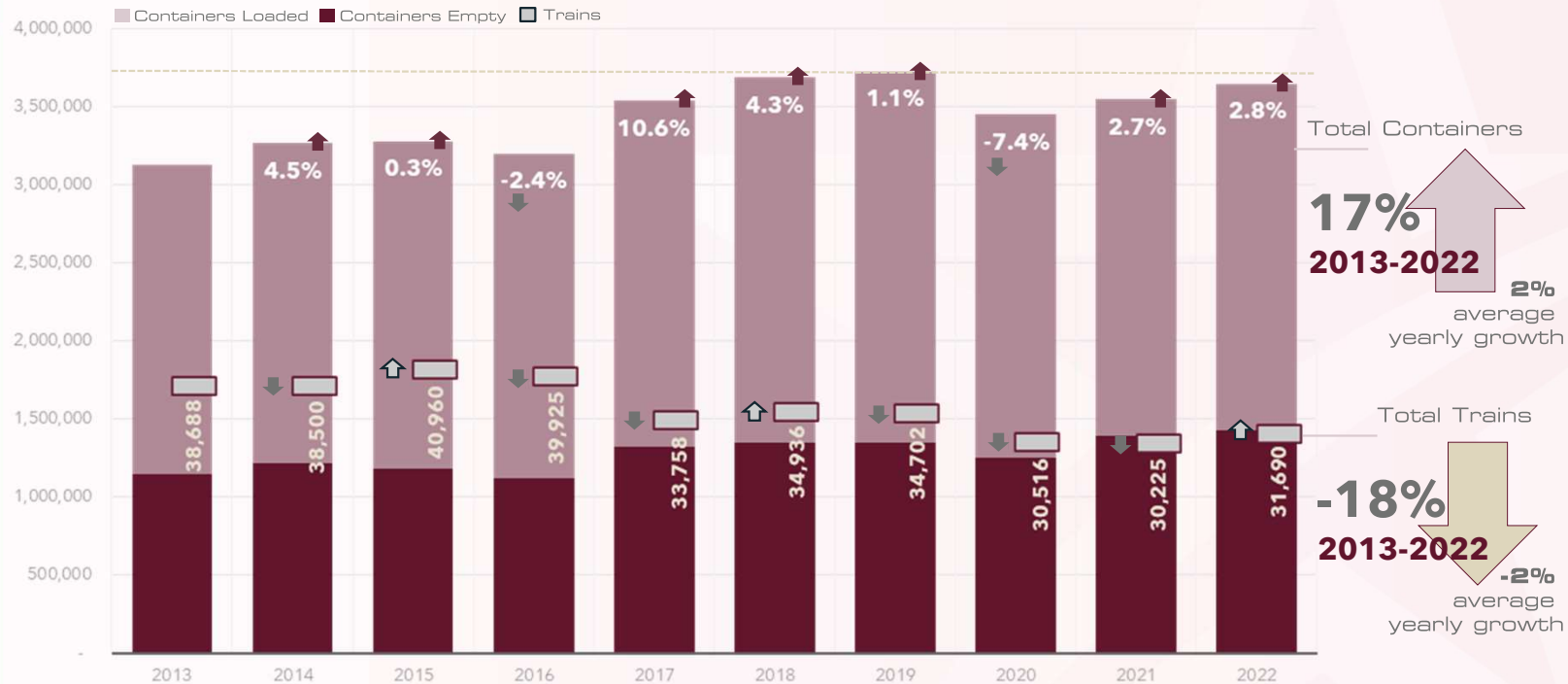


IN-BOUND (USA)

2013 - 2022 ALL BPOE



RAIL CROSSINGS

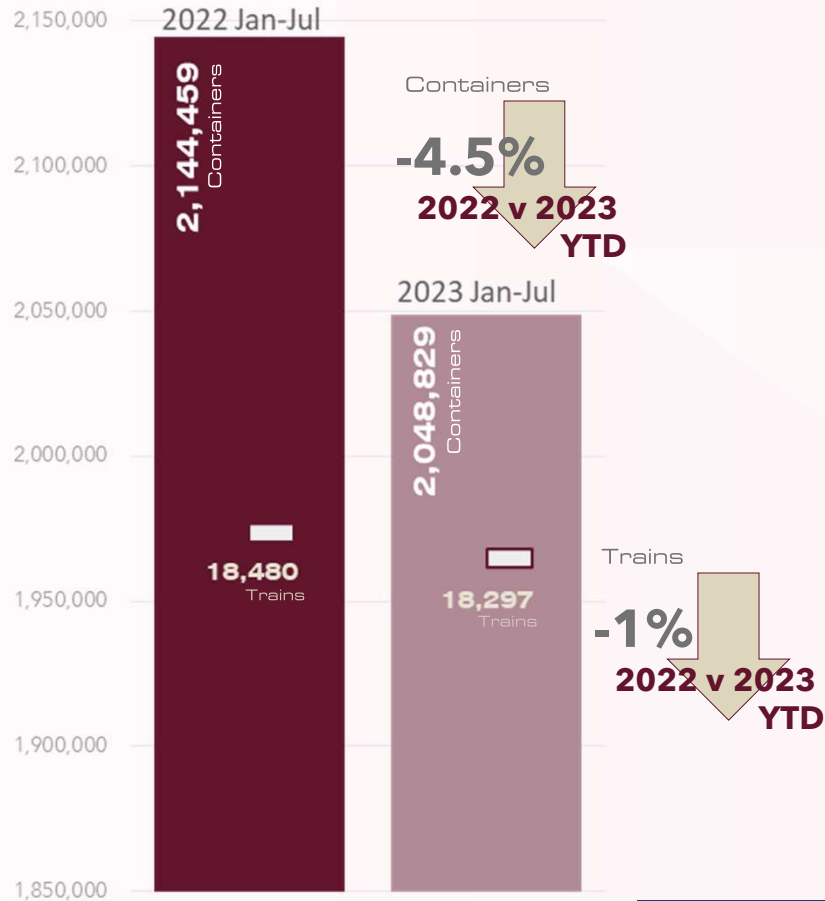


IN-BOUND

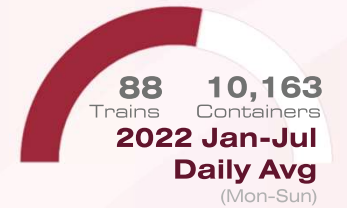
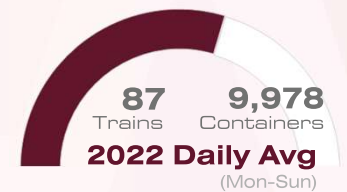
(USA)

2022 -
2023

ALL BPOE



RAIL CROSSINGS



IN-BOUND

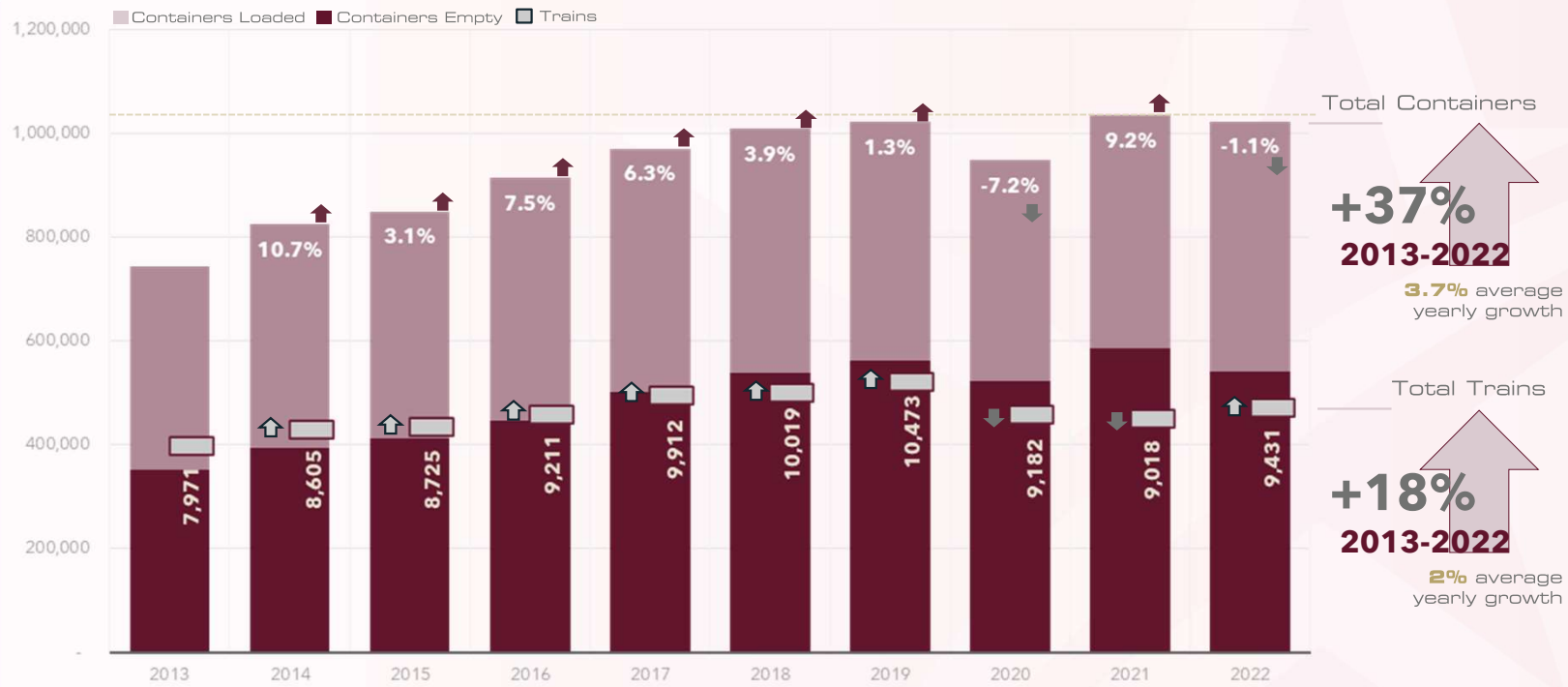
(TX)

2013 -
2022

TX BPOE



RAIL CROSSINGS

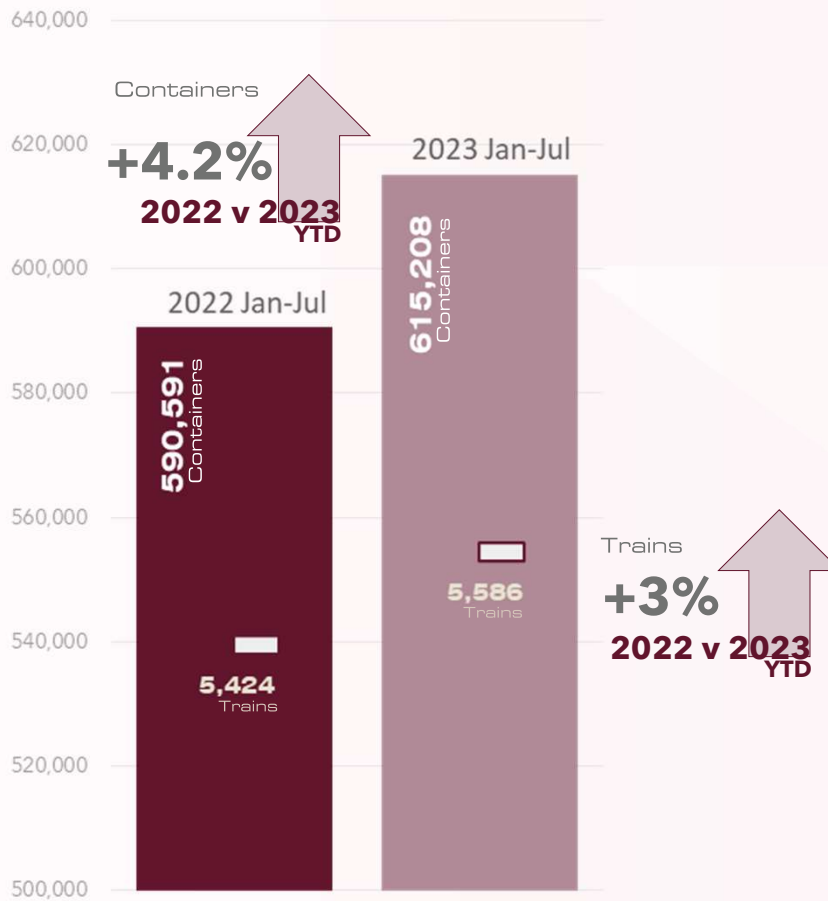


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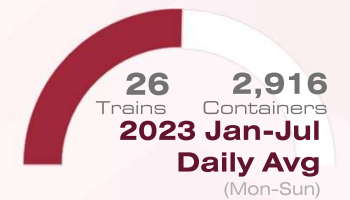
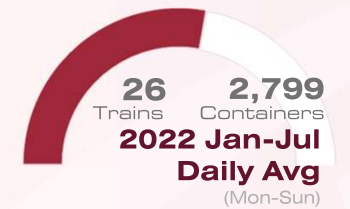
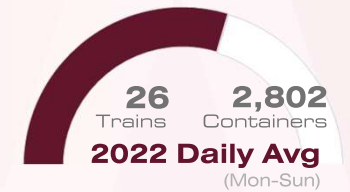
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2022 - 2023

TX BPOE



RAIL CROSSINGS



IN-BOUND

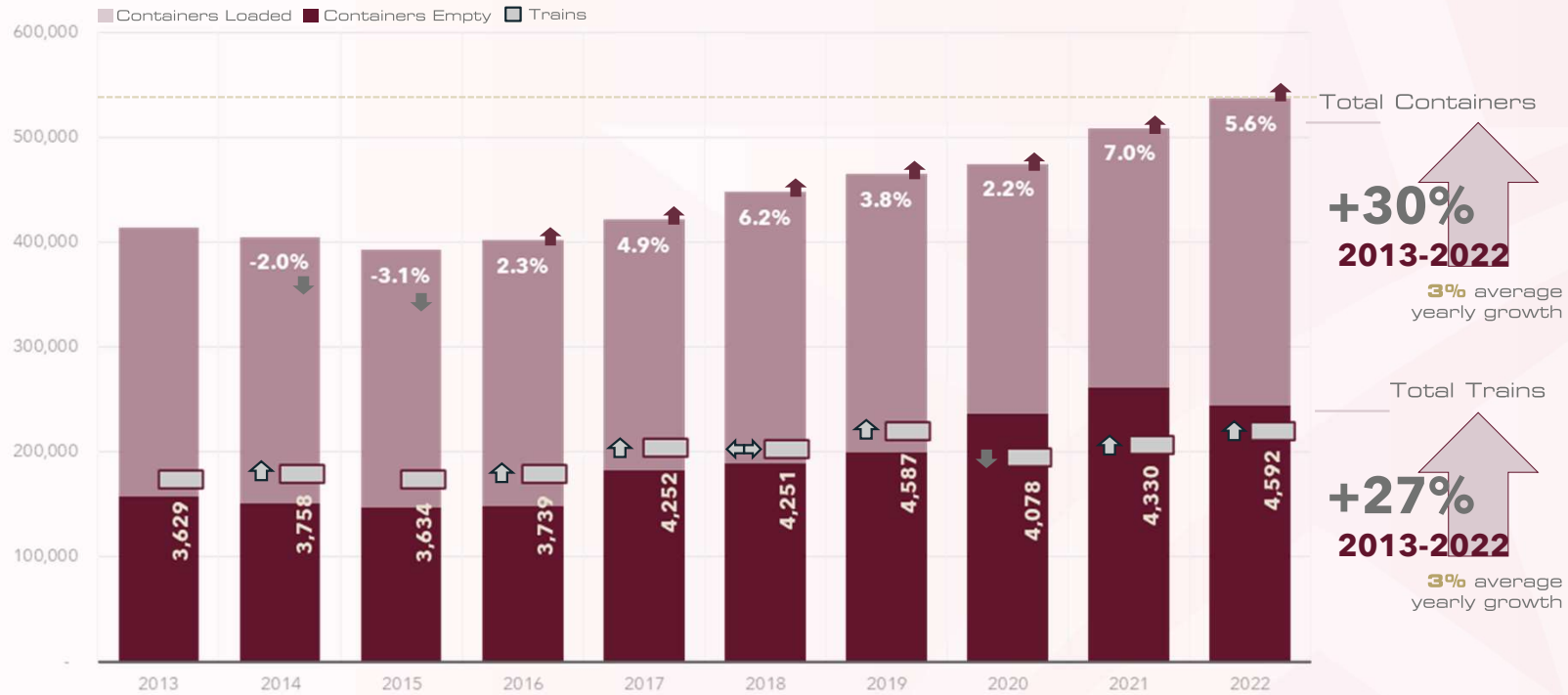
(TX)

2012 -
2023

LAREDO
POE



RAIL CROSSINGS

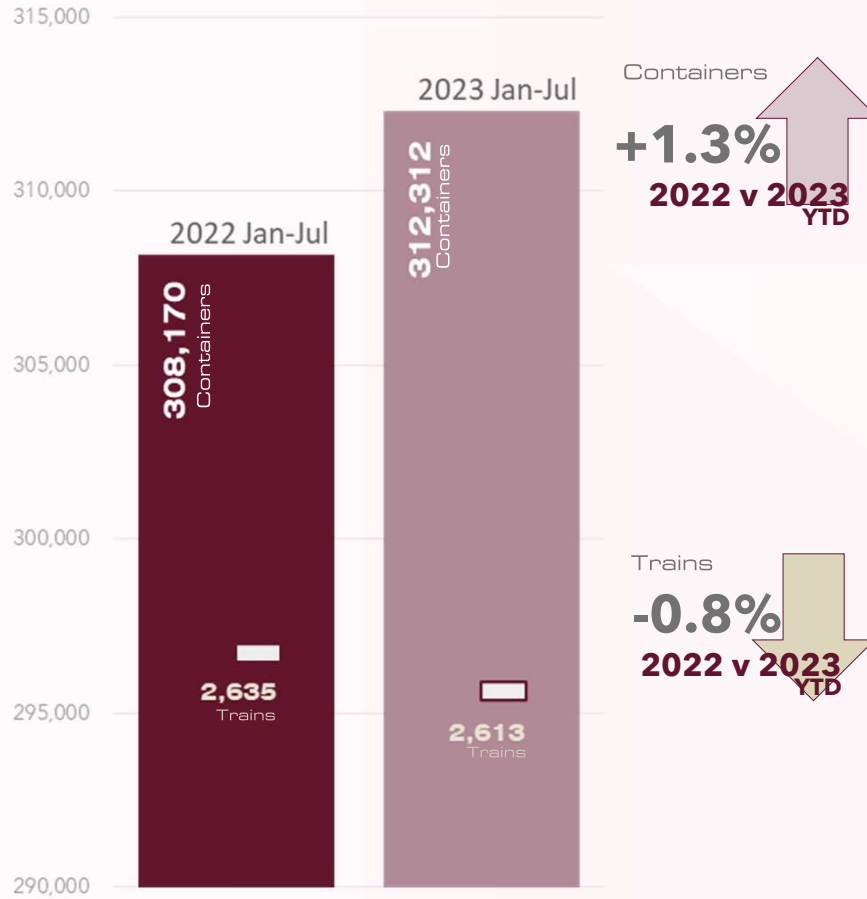


IN-BOUND

(TX)

2022 - 2023

LAREDO POE



RAIL CROSSINGS



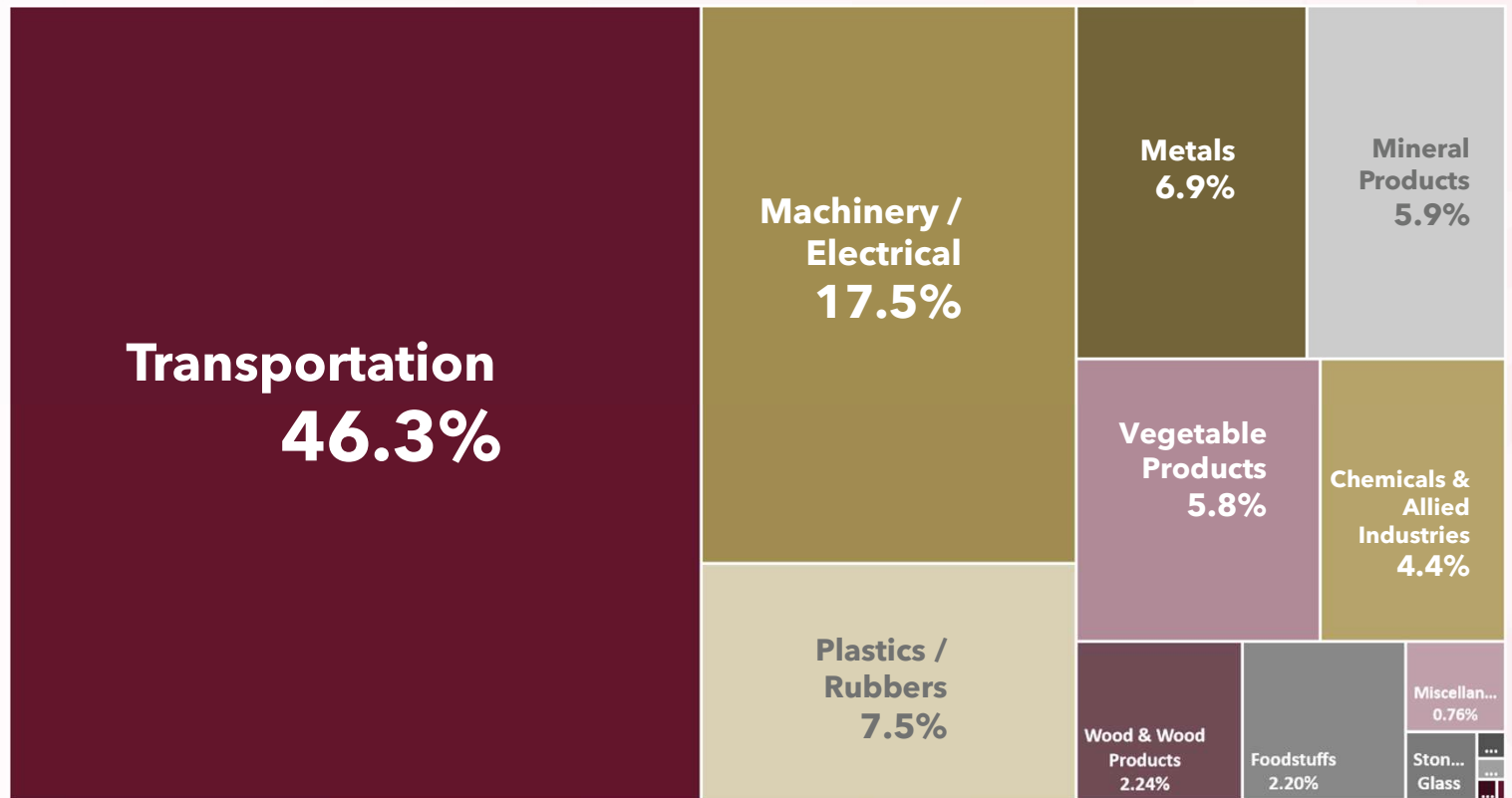
LAREDO POE

2023 JAN-JUL

RAIL



TOTAL TRADE SHARE BY COMMODITY GROUP

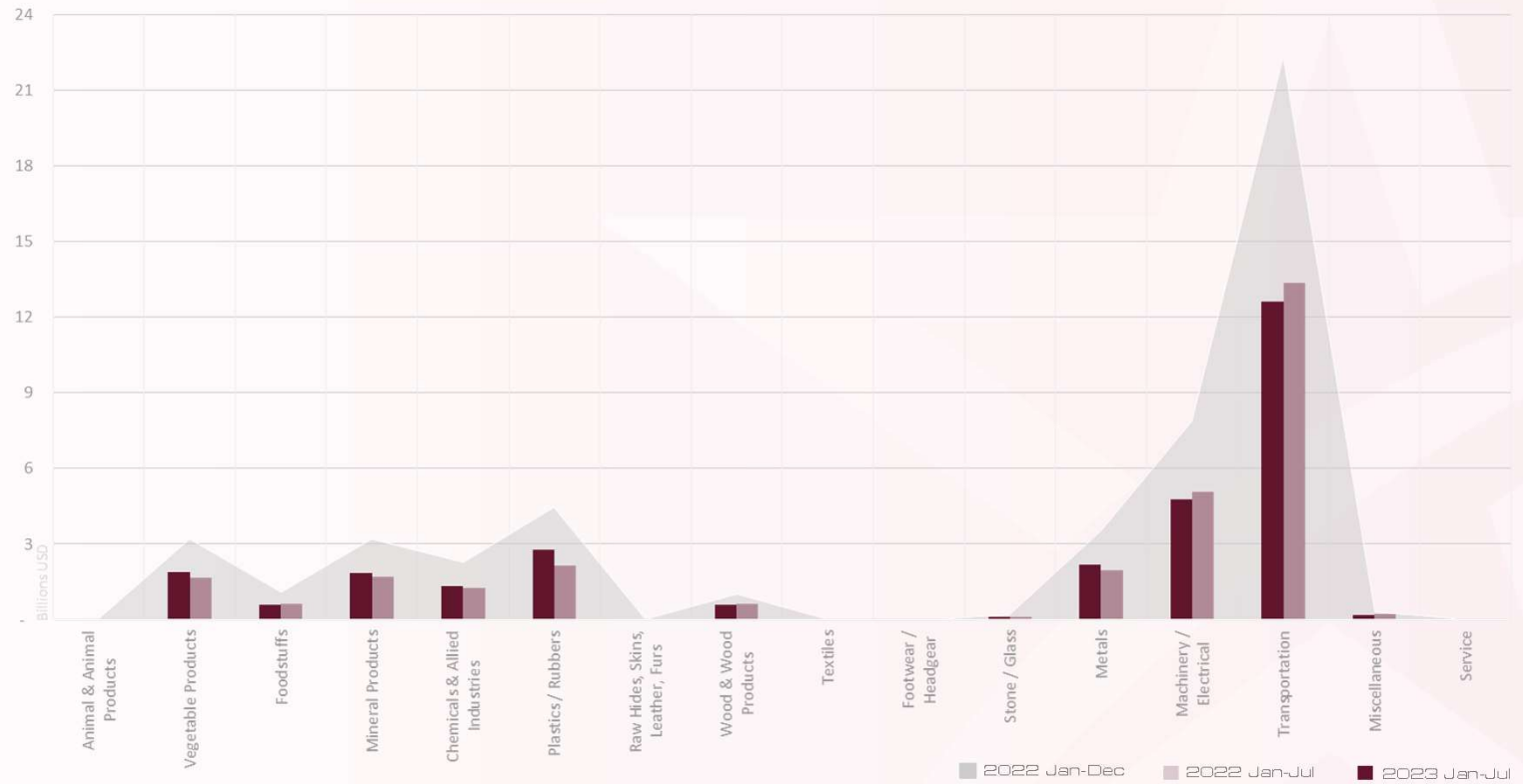


LAREDO POE

RAIL



TOTAL TRADE VALUE



The background of the slide is a dark red overlay on a blurred image of financial data. On the right side, there is a line graph with several data points. On the left side, there is a list of numbers, some of which are aligned with the graph's data points. The text is white and centered on the slide.

200 69.00 ▲
1 756.2 ▲
1 7475 ▲
300 7.56 ▲
2,000 7.56 ▲
20,000 19.00 ▲
13,100 2.12 ▲
500 135.00 ▲
100,000
45,000 28.75 ▲
100 28.75 ▲
400 40.75 ▲
200 9.20 ▲
2 747A ▲
32,000 1.85 ▲
32,800 3.16 ▲

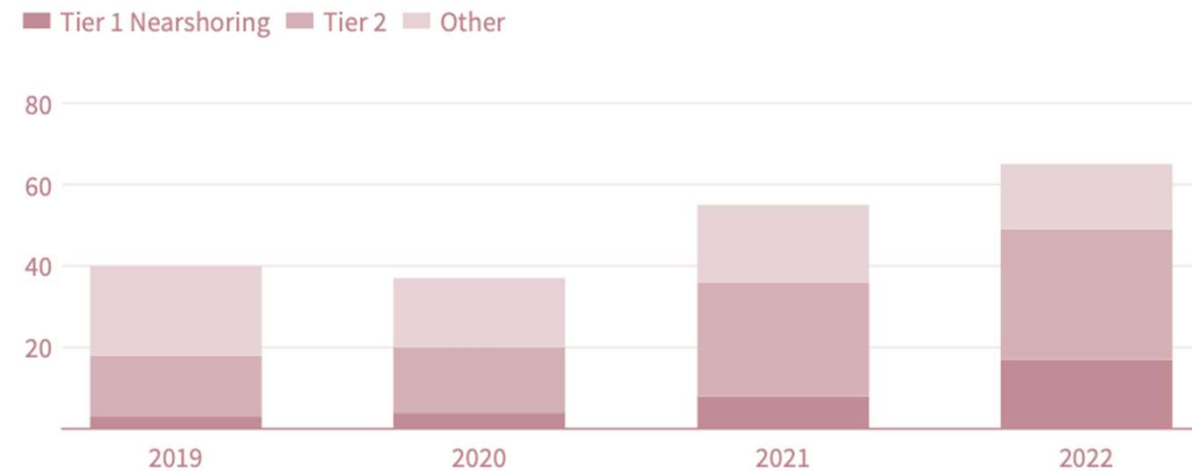
Nearshoring: A Boom for U.S. – Mexico Cross-Border Trade?

Nearshoring Growth by State



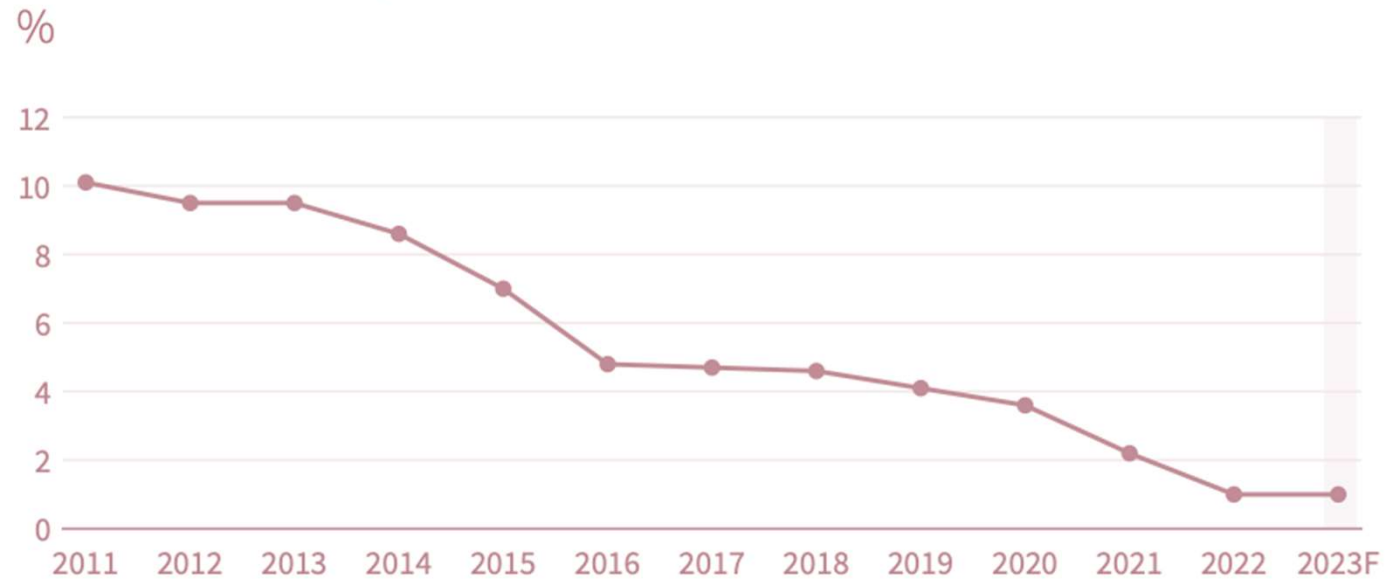
NEARSHORING-RELATED AND TOTAL GROSS ABSORPTION, MEXICO

MSF



- Annual nearshoring absorption (direct manufacturing capacity expansions to supply the US, installed in leased logistics space) grew from **3 MSF in 2019 to 16 MSF in 2022, increasing from 8% to 26% of gross absorption in the country.**
- Tier 2 nearshoring absorption (domestic providers and third-party logistics providers specializing in manufacturing warehousing) **grew from 15 MSF in 2019 to 29 MSF in 2022, or nearly half of the gross absorption.**

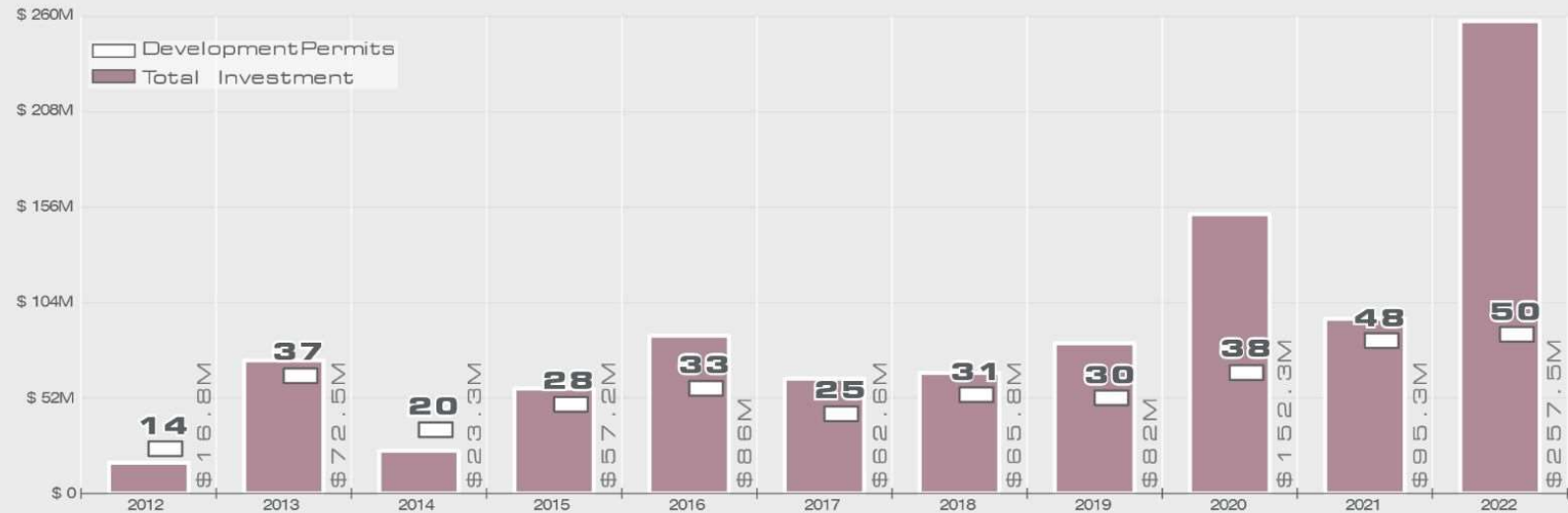
VACANCY RATE, MEXICO 6 MAIN MARKETS



- Very low space **availability (1.1% as of Q1 2023 vs. 6% expansion average for 2013-2019)** pushes demand into the future.
- **60%** of the space currently under construction is pre-leased, compared to **36%** in 2019.
- CDMX, Monterrey, Ciudad Juárez, Guadalajara, Reynosa y Tijuana

LOGISTICS FACILITIES

LAREDO POE WAREHOUSE & INDUSTRIAL PARK DEVELOPMENT



TOTAL NEARSHORING OPPORTUNITIES BY COUNTRY

ADDITIONAL EXPORTS OF GOODS

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



0 - 1000
1000 - 2000
+2000



Source: Inter-American Development Bank

Nearshoring: potential opportunities for increased exports, by country
Trade in goods only - US\$ millions

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

LAREDO TRUCK CROSSINGS

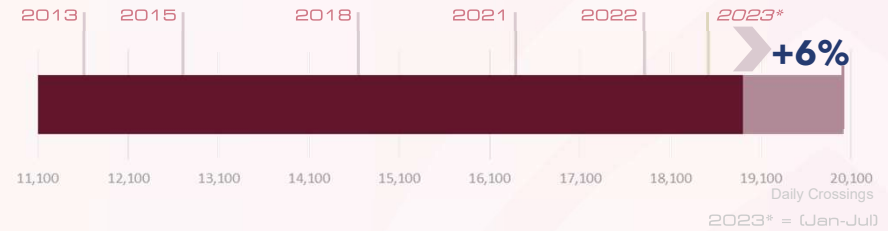
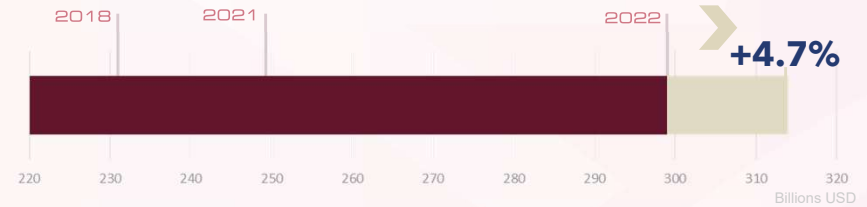


↑ +\$35B
Expected US-Mexico
Trade Increase

↑ +\$14B
Expected through
Laredo POE

↑ 950-1,120
Estimated Additional
Daily Truck Crossings

NEARSHORING IMPACT



Why Mexico in this Nearshoring Context?

- **Location:** Proximity to the US, which favors companies that serve North American consumers.
- **Free Trade Agreements:** Mexico is the only developing country that has free trade agreements with the US, Canada, the European Union and Japan. In total, Mexico has 13 Free Trade Agreements signed with 46 countries
- **Regulations and Trade Wars:** Recent regulatory decisions and trade wars are favoring alignment among North American supply chains.



Smart Borders: The key to more resilient cross-border trade

SMART BORDERS

Smart borders refer to the use of technology and data to facilitate the movement of people and goods across borders while ensuring security.

These initiatives include electronic customs systems, automated border control systems, and risk assessment tools (Svitek et al.:2019).



SMART BORDERS

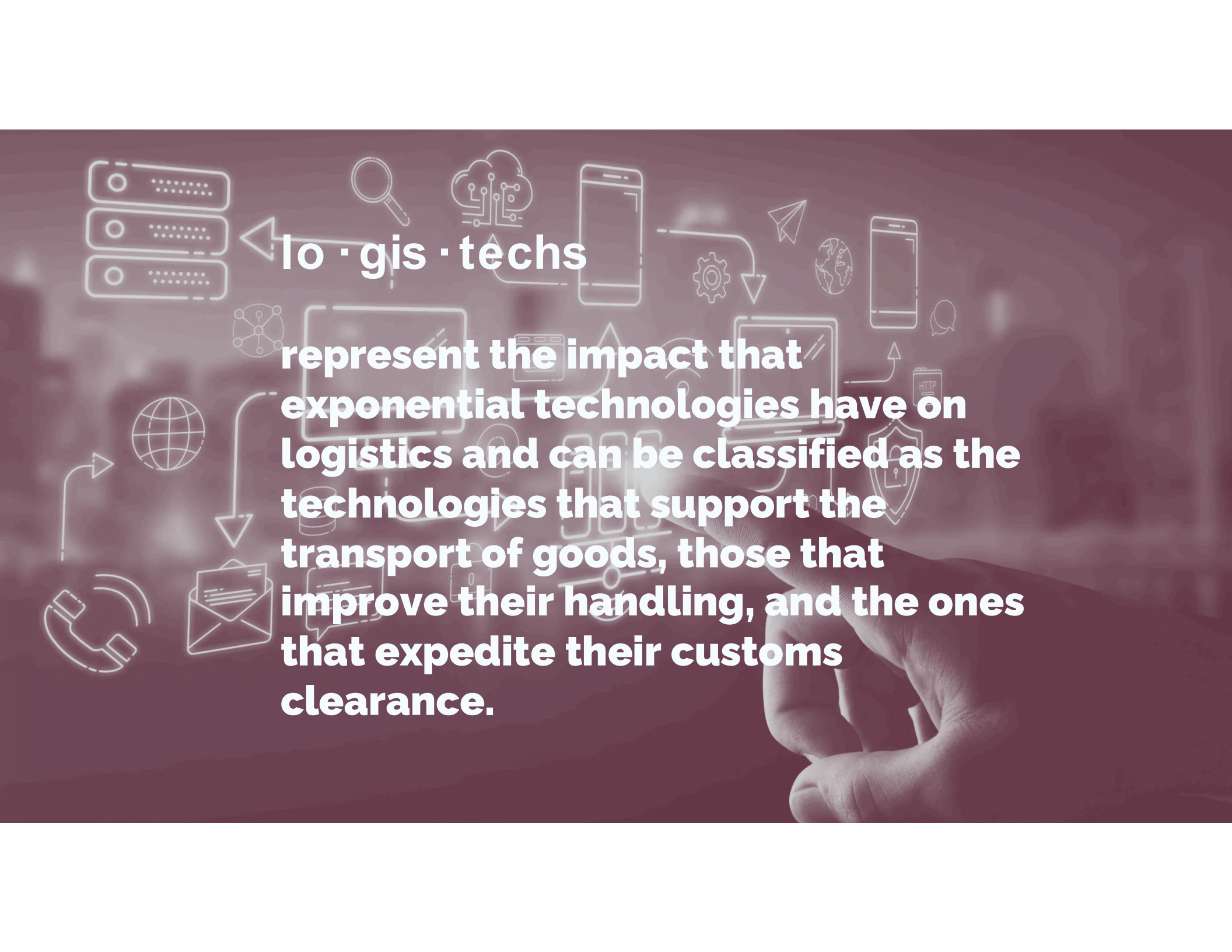
Benefits & Challenges

Benefits

1. Increase the efficiency of border crossings by reducing wait times and processing times.
2. Can improve security by effectively identifying and targeting high-risk individuals and goods.
3. Reduce costs by decreasing the need for manual processing and increasing automation.
4. improve data collection and analysis, allowing for better decision-making and risk assessment

Challenges

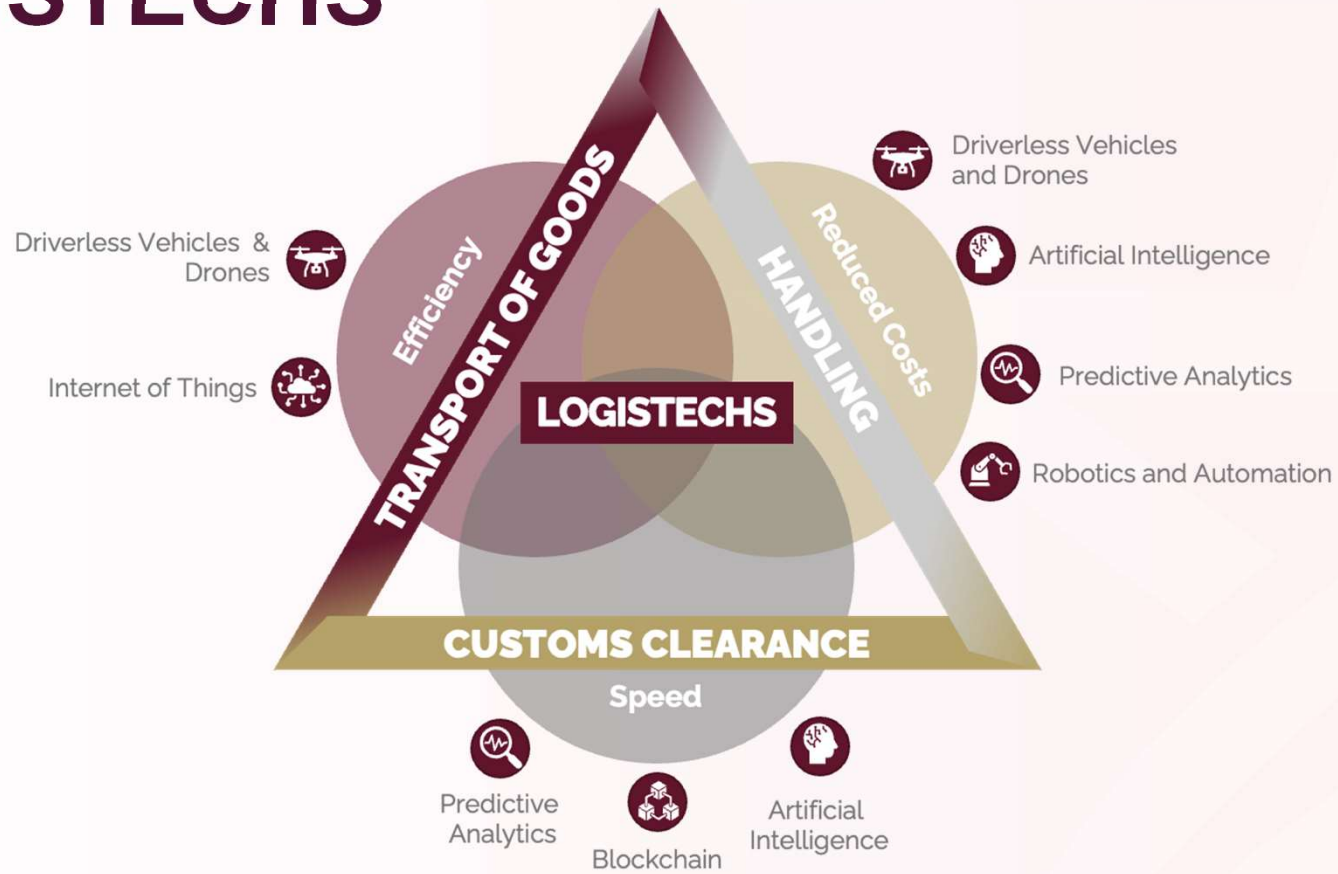
1. Implementing smart border initiatives requires significant investment in technology and infrastructure.
2. using technology and data raises concerns about privacy and data protection. Smart borders require collecting and analyzing significant amounts of personal data, raising privacy and data protection concerns.
3. Implementing smart borders requires international cooperation and coordination, which can take time and effort.



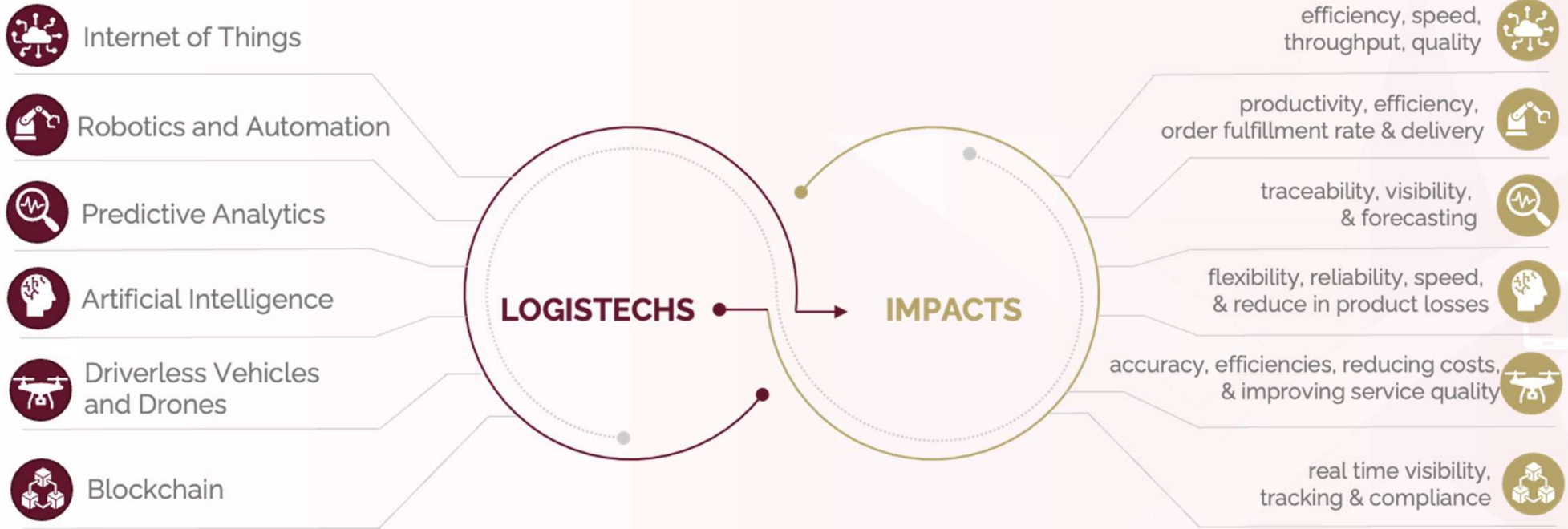
lo · gis · techs

represent 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



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