

November 23, 2017

**TO:** MR. GUILLERMO VALENCIA, CHAIRMAN, GNSCCPA

**FROM:** Luis E. Ramírez Thomas, President, RAI-N

**SUBJECT:** October Activity Report

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On behalf of Ramirez Advisors Inter-National, LLC (“RAI-N”) allow me to present our activity report to you and the Board of Directors of the Greater Nogales Santa Cruz County Port Authority (“GNSCCPA”). Before outlining the issues and efforts we have addressed on your behalf to date, we request and welcome your continued comments and suggestions as to how we can improve on our services and our communications and on our activities on your behalf. With your feedback, we will make every effort to improve our response to your needs and learn to better anticipate your directives.

Our activities on behalf of the GNSCCPA have focused on the following key areas:

1. **Donation Acceptance Program Update;**
2. **Binational Bridges and Border Crossings Meeting;**
3. **Borderlands Conference in Tucson;**
4. **Visit by Governor Ducey to Nogales;**
5. **AMC Summit and Plenary Session in Puerto Peñasco;**
6. **Ambos Nogales Update on SETNRI at Mariposa;**
7. **Arizona-Mexico Corridor Update with ADOT; and**
8. **Representation of GNSCCPA with Key Entities.**

This report is not intended to be a full description of all our activities but rather provides highlights and information on the direction of our activities to keep Board of Directors informed and to ensure that our activities adhere to the vision and guidance imparted to RAI-N by the GNSCCPA and its leadership. Throughout this period, RAI-N has maintained active and frequent communications with Ms. Allison Moore, Mr. Guillermo Valencia and various other members of the Board of Directors in order to ensure that we have a fully coordinated approach to our efforts. RAI-N stands ready to address any issue, concern or suggestion that may arise from this report and from our on-going dialogue with the leadership and the Board of Directors.

**1. *DONATION ACCEPTANCE PROGRAM UPDATE***

- ◆ Dialogue between the GNSCCPA Technical Team and Customs and Border Protection and the General Services Administration continue with bi-weekly conference calls.
- ◆ On October 31, 2017, the Port Authority coordinated a visit by other interested vendors to the installations at the Mariposa Port of Entry.
  - One prospective vendor opted out from the visit and will not be submitting a proposal
  - Technical team is hoping to receive one competitive bid shortly.
- ◆ **Reminder:** information provided is limited due to Non-Disclosure Agreement signed that prevents public disclosure of detailed information.

**2. *BINATIONAL BRIDGES AND BORDER CROSSINGS MEETING***

- ◆ On October 23, 2017, the Ministry of Foreign Affairs of Mexico (SRE for its initials in Spanish), along with the its US counterpart, the Department of State, hosted the US-Mexico Binational Bridges and Border Crossings (Arizona and California) meeting in Hermosillo, Sonora.
- ◆ Sonora Governor, the Honorable Claudia Pavlovich, opened up the day and half long meeting.
- ◆ Chairman Valencia, along with the Honorable John Doyle, Mayor and the Honorable Cuauhtemoc Galindo, Municipal President, participated in the binational protocol meeting.
- ◆ Mayor Doyle started the presentation and Chairman Valencia provided detailed information on the following topics:
  - the need to modernize the DeConcini Port of Entry
  - the need to modernize the stormwater tunnels under the DeConcini Port of Entry
  - the need to construct new retention ponds and create a program to maintain the existing ones as well
  - the need to address flooding on the Nogales Wash and the urgent need to address the full repairs of the International Outfall Interceptor
  - Support efforts to deploy SENTRI lanes at Mariposa
- ◆ During the meeting, US Consul General in Nogales, Virginia Staab, indicated that the Mariposa port of entry has been selected as an example port due to its state of the art design, the level of cooperation with Mexico and the success of key pilot programs that were tested at Nogales such as Unified Cargo Processing. We look forward to hearing additional information from Consul Staab on this topic.
- ◆ A copy of Chairman Valencia's presentation is provided in Attachment #1.



Chairman Valencia, Mayor Doyle, President Galindo with Secretary Martinez of SIDUR and US Consul General Staab



Chairman Valencia with US Consul Generals Staab of Nogales and Tello of Hermosillo and the Nogales delegation during the presentation.

### ***3. BORDERLANDS CONFERENCE IN TUCSON***

- ◆ On October 19, 2017, the City of Tucson hosted its annual Borderlands Conference
- ◆ The event touched on a variety of trade and industry leading topics including trade with Mexico, deployment of smart vehicles and NAFTA negotiations.
- ◆ In addition to Chairman Valencia participating in this event, Nogales had a prominent presence during the event, including representatives from the Fresh Produce Association of the Americas, the City of Nogales, among others.



Nogales Councilmen Lucero and Varona with Larry Lucero of TEP and Former Nogales Mayor Marco Lopez with former Mexican Consul General Jaime Paz y Puente



Juan Ciscomani from the Office of the Governor with ADOT Director John Halikowski and a picture of the audience during the event.

#### 4. ***VISIT BY GOVERNOR DUCEY TO NOGALES***

- ◆ On October 4, 2017 and at the invitation of the Nogales-Santa Cruz County Chamber of Commerce, Governor Doug Ducey was in Nogales to participate in the Chamber's annual awards luncheon.
- ◆ The Governor provided his insights into the importance of Arizona's relationship with Mexico, including trade, tourism and investment in general. The Governor also spoke about his efforts to position Arizona as a leader when it comes to innovative and game-changing technologies, including smart automobiles.
- ◆ Congratulations to Ms. Olivia Ainza-Kramer for a fantastic event!



Various pictures from the Nogales-Santa Cruz County Chamber Luncheon with Governor Ducey.

**5. *AMC SUMMIT AND PLENARY IN PUERTO PEÑASCO, SONORA***

- ◆ The Arizona-Mexico Commission, along with its Sonoran counterpart, the Commission Sonora-Arizona, will be hosting its next summit in Puerto Peñasco, Sonora November 30 and December 1, 2017.

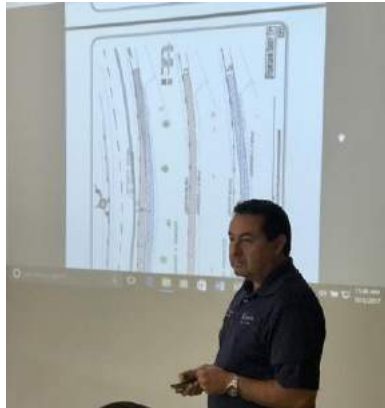
- ◆ As always, having a strong Nogales presence during this event is critical to the advancement of our ongoing initiatives.
- ◆ For additional information please visit [www.azmc.org](http://www.azmc.org).

#### 6. ***AMBOS NOGALES MEETING ON SENTRI AT MARIPOSA***

- ◆ On October 3, 2017, the GNSCCPA hosted a meeting that brought together Ambos Nogales to discuss the possible deployment of SENTRI at the Mariposa port of entry.
- ◆ During the meeting, Municipal President Galindo of Nogales, Sonora has his Public Works director provide an update on the proposed improvements required to add an additional vehicular lane for north-bound traffic at Mariposa.
- ◆ President Galindo reaffirmed that had the funding in hand necessary to make the road improvements but that some minor adjustments would be required on the US side of the border to accommodate the additional lane.
- ◆ President Galindo also indicated that the funding is secured until he leaves office in September 2018. That once a new administration enters office, there are no guarantees that they will adhere to the funding commitment.



Photo from the meeting which included US Customs and Border Protection, the City of Nogales, the Municipality of Nogales, Sonora, Santa Cruz County, INDEX, and the Fresh Produce Association of the Americas



Photos from the meeting on SENTRI at Mariposa, including the presentation by Nogales, Sonora on their proposal.

**7. ARIZONA-MEXICO CORRIDOR STUDY UPDATE WITH ADOT**

- ◆ On October 31, 2017, the Arizona Department of Transportation hosted a meeting during which the ADOT contractor for the Arizona-Mexico Corridor Study, Texas Transportation Institute, presented the initial findings of the study.
- ◆ Here are a few sample slides that indicate some of the many findings that impact the entire corridor. This information helps to identify sectorial trends, areas of opportunity and areas of need.
- ◆ For a copy of the entire 48 slide presentation please feel free to contact Ramirez Advisors so that the copy can be sent electronically.
- ◆ ADOT and TTI has asked that the board members of the GNCCPA, along with a few other key members of the produce and maquila industry in the Ambos Nogales region serve as an advisory committee to the study team.

**ADOT**

**Top 10 Supply Chains along the Corridor**

Supply Chain	US Exports (Metric Tons)			US Imports (Metric Tons)		
	Truck	Rail	Total	Truck	Rail	Total
1 Fruits and Vegetables	266,051	5,064	271,115	2,939,779	-	2,939,779
2 Electric Machinery and Equipment	135,072	5,677	140,749	210,125	-	210,125
3 Vehicles and Parts	38,186	51,691	89,877	41,422	1,507	42,929
4 Paper	137,524	160,547	298,071	100,538	-	100,538
5 Plastics	178,371	46,528	224,899	68,050	58,632	126,682
6 Wood and Articles of Wood	26,174	607	26,781	50,832	3,115	53,947
7 Sugars	779	47,407	48,186	63,609	56,945	120,553
8 Copper and Ores, Slag and Ash	51,773	-	51,773	0	-	0
9 Meat	47,351	-	47,351	10,205	-	10,205
10 Beer	693	-	693	24,035	256,917	280,952

**ADOT**

### Fruits and Vegetables

- Seven commodities make 75% of the total trade, and tomatoes make 19%
- Average weight per shipment = 15 tons

Impo/Expo	Description	Weight (000s Tons)	Value USD (Millions)	Truck Loads (000s)
MX Exports	Tomatoes, Fresh or Chilled	537.1	438.1	36.3
MX Exports	Watermelons, Fresh	507.2	93.5	22.2
MX Exports	Fruits of Genus Capsicum or Pimenta, Fresh or Chilled	380.5	242.4	26
MX Exports	Cucumbers & Gherkins, Fresh or Chilled	370.7	137.8	23.3
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MX Exports	Fresh Grapes	139.6	144.5	7.8
MX Exports	Melons ( Except Watermelons ), Fresh	125.4	35.1	5.2

**ADOT**

### Fruits and Vegetables

Travel Time (Hours)				
Origin / Destination	Nogales	Cd. Juárez	Nuevo Laredo	Reynosa
Culiacan	14:00 - 15:00	20:00	36:00 - 48:00	24:00
Uruapan	36:00	28:00	48:00	48:00
Guadalajara	32:00	22:00	24:00	14:00

Truck Rates in US Dollars				
Origin / Destination	Nogales	Cd. Juárez	Nuevo Laredo	Reynosa
Culiacan	1,571	2,446	4,000	2,514
	<b>2,914</b>	<b>4,520</b>	<b>6,400</b>	<b>3,828</b>
Uruapan	3,063	2,828	2,486	1,754
	<b>5,663</b>	<b>4526</b>	<b>3,977</b>	<b>3,188</b>
Guadalajara	4,345	3,899	2,334	1,611
	<b>6,954</b>	<b>6,183</b>	<b>3,735</b>	<b>2,977</b>

**Bold= Full trailers**

◆ A full copy of the presentation is provided in Attachment #2

**8. REPRESENTATION OF THE GNSCCPA WITH KEY ENTITIES**

◆ Continuing efforts to maintain an on-going dialogue with various agencies to ensure full coordination of efforts and maximizing the impact of our limited resources, including:


- ADOT;
- AMC;
- DHS/CBP;
- GSA;



- Offices of Arizona Congressional Delegation;
  - Office of the Governor;
  - SCT;
  - SIDUR;
  - State Department;
  - State of Sonora;
  - Transportation and Trade Corridor Alliance;
  - Union Pacific Rail Road; and
  - UP de Mexico
- ◆ It is imperative to highlight the great success that has been achieved on these efforts by coordinating efforts with key stakeholders, including the FPAA, Santa Cruz County, the City of Nogales and others as each has well established relationships with most of these entities.

**Attachment #1**

**Copy of PPT during Binational Bridges and Border Crossings Meeting**



**A Commitment to Competitiveness**

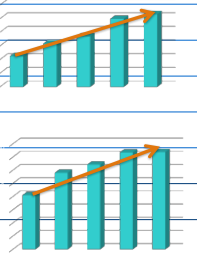
Guillermo Valencia  
Chairman

Hermosillo, Sonora  
October 24, 2017

**Regional Competitiveness**

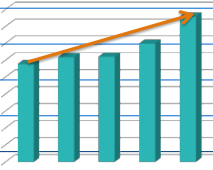
- Nogales is Arizona's principle gateway for trade, tourism and innovation
- \$250 million of investment in modernizing port of entry
- Close to \$1.8 billion being invested on MX15 connecting Arizona with Mexico City
- ADOT, in P3 with Community, investing up to \$169 million in road improvements
- Committed to promoting Nogales and the region to attract new trade and investment
- Home-base for the testing of Unified Cargo Processing
  - Northbound, Southbound and Rail operations
- THANKS TO CBP AND ADUANAS!

**Nogales by the Numbers**





- In 2016, Nogales processed 1.5 million cars and over 10.7 million people
- The period of Jan-July 2017 is showing a 9.2% increase in cars and a 3.7% increase in people
- Growth in cars and people means greater regional economic activity in tourism, retail, restaurants and professional services sectors


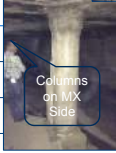

**Nogales by the Numbers**

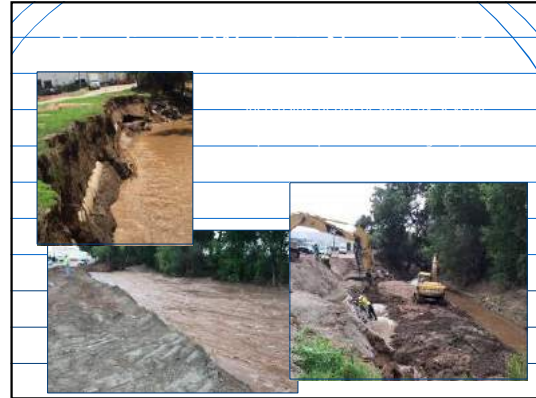
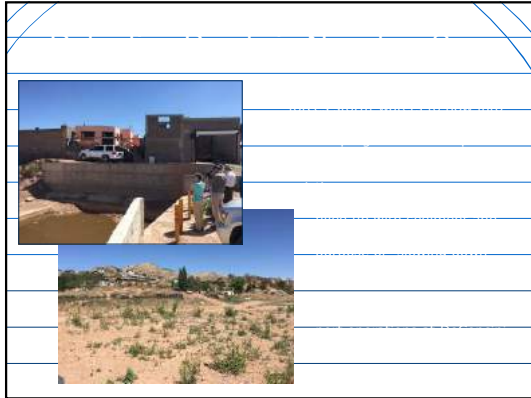


- Nogales processed more than 335,000 trucks in 2016
- According to USDOC this represents more than \$26 billion of trade between US and Mexico
  - \$3 billion in produce
  - \$21+ billion in manufactured products
- 2017-18 Produce season looks to surpass last season
- Expect trend to continue for foreseeable future

- DeConcini is the main pedestrian crossing for Nogales
- Landlocked on both sides of the border
- City grew up around the port
- Continual pedestrian and vehicular delays are an impediment to frequent crossings
- Downtown retail is down over 40% in recent years
- Need to get CBP and GSA to prioritize project



### International Outfall Interceptor

**OFFICE OF THE GOVERNOR  
DOUG DUCHEY**

FOR IMMEDIATE RELEASE  
October 9, 2017

**Governor Ducey Declares State of Emergency for Pipe Rupture in Santa Cruz County**

Based on assistance from the U.S. Army Corps of Engineers

**PHOENIX** – Governor Doug Ducey today declared a state of emergency following the rupture of a 48-inch wastewater pipeline near Nogales, Arizona and with a view of assisting the U.S. Army Corps of Engineers with its response to flood and damage mitigation efforts. The emergency declaration allows federal coordination from Santa Cruz County and the City of Nogales to obtain additional resources and materials to the response effort.

"Having a state of emergency in place as governor that the safety and health of Arizona citizens," said Governor Ducey. "The state has resources, I have declared a state of emergency in Santa Cruz County and requesting additional response assistance from the U.S. Army Corps of Engineers, including a state of emergency to be an governor that the safety and health of Arizona citizens, the well-being of Arizona's resources available as we continue to work with local and federal partners to respond to this incident."

Earlier this week, flooding caused by intense storms resulted in a breach in the International Outfall Interceptor in the town of Mariposa, Arizona. Because it is a 48-inch diameter pipeline, it is a critical part of the city's sewer system.

Today's declaration directs \$25,000 to the Department of Emergency and Military Affairs as well as emergency services within Santa Cruz County to assist with the state of emergency response and recovery plan.

To read the emergency declaration, click [here](#).

To read the governor's letter to the U.S. Army Corps of Engineers, click [here](#).

###

- Manhole dislodged and ruptured during storm
- Up to 14 million gallons/day of raw sewage flowing into water
- EWIC multiphase plan for Cues-in-Place of \$100 million

### International Outfall Interceptor (cont'd)

International Boundary and Water Commission  
United States Section

FOR IMMEDIATE RELEASE  
October 9, 2017

**CONSTRUCTION TO BEGIN OCTOBER 9 ON SEWER MAINHOLE IN NINO RICO, ARIZONA**

K&S Construction, Inc. of Tucson, Arizona, under the contract to the United States Section of the International Boundary and Water Commission (USIBWC), is scheduled to begin emergency repairs on a 48-inch pipe project in the International Outfall Interceptor (IOI) on Monday, October 9, 2017.

The IOI is a concrete mainline from the cities of Nogales and Flores, Arizona and Nogales, Sonora to the Nogales International Transportation Treatment Plant.

On July 25, 2017, the City of Nogales notified USIBWC, through IBW Health, of a pipe rupture in the IOI. The rupture was located in the town of Nino Rico, Arizona. A temporary system system has been in place since August and is being operated until the repair work is complete.

The \$1.65 million contract includes building a portion of the Nogales mainline around the repair area, installing piping along the line for leak protection, and replacing the damaged manhole and IOI project. Construction is expected to be completed within three weeks.

The International Boundary and Water Commission, United States and Mexico, is responsible for approving the boundary and water treaties between the two countries. The USIBWC oversees and maintains the Nogales International Wastewater Treatment Plant.

News Media Contact:

### Expansion of SENTRI

- Two SENTRI lanes downtown are essential for daily commuters
- Supporting efforts to deploy SENTRI at Mariposa, essential for Maquila industry
- All 12 primary inspection booths equipped for SENTRI
- Municipality and US Consulate General in Nogales, Sonora are working with CBP on possible High-Impact/Low-Cost project for a SENTRI lane

### Nogales DAP Proposal

- CBP has accepted proposal under Small Scale provisions of Section 559
- Convert 3 docks to refrigerated docks in order to cold-chain
- Cost estimates higher than anticipated
- CBP/CSA and Port Authority Technical team working on design of project
- Approximately the same capacity as the Cold Facilities at Laredo
- Wastewater Facility Strategic

Takeways
<ul style="list-style-type: none"><li>• DeConcini in need of modernization – conduct Feasibility Study in FY 2018-19</li><li>• Storm Water retention ponds need to be completed and an on-going maintenance program funded and implemented on the Mexican side</li><li>• Storm-water under DeConcini (Mexican side) in need of upgrades<ul style="list-style-type: none"><li>• Ask GSA to provide timeline on US-side repairs</li></ul></li><li>• IOI in desperate need of urgent repairs and the Cure-in-Place conducted</li></ul>

Thank You!
Guillermo Valencia Chairman Greater Nogales Santa Cruz County Port Authority
<a href="http://www.nogalesport.org">www.nogalesport.org</a> (520) 287-2707 gvalencia@evaleancia.com

**Attachment #2**

Copy of the ADOT/TTI presentation on the Arizona-Mexico Corridor Study

### Binational Freight Corridor Study

Presented by:  
**Juan Carlos Villa**  
TTI

October 1, 2017  
Nogales, AZ

### Study objectives:

- Comparatively assess the freight performance of the Pacific Corridor.
- Develop a comprehensive inventory of existing freight assets and planning needs for the corridor.
- Benchmark comparisons between the Pacific and Central Corridor.
- Estimate and quantify the improvement to highway performance through various strategies
- Develop a forecast of the future volume and value of freight that is likely to use the corridor

### Study Approach:

### Task 1: Economic, Geographic, and Demographic Definition of the Corridor

- Objective:
  - Descriptive analysis of the corridor's geographic, economic, and demographic context.
  - Summarize existing freight movement facilities within the market region defined for both, central and Pacific corridor.

### Population Density

Mexico City and Guadalajara's metro areas are the most dense regions

Top 10 Municipalities by Population Density Pacific Corridor by Atacumulo

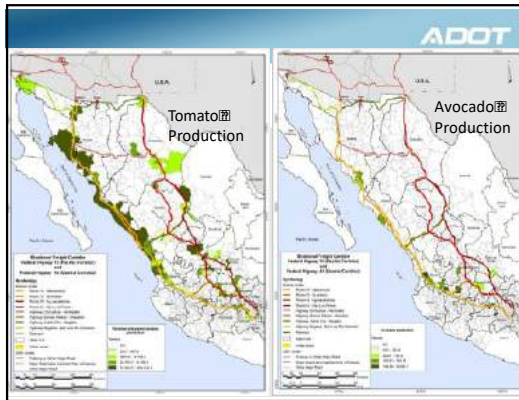
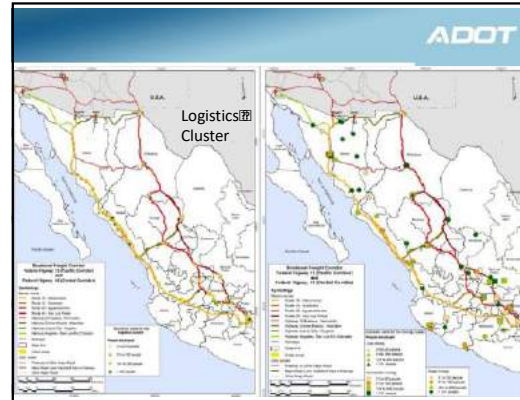
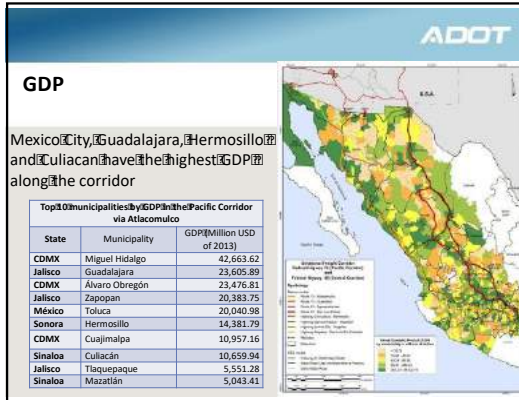
State	Municipality	Density KM2	National Ranking
Jalisco	Guadalajara	10,048.37	12
CDMX	Miguel Hidalgo	8,245.12	17
CDMX	Álvaro Obregón	7,683.65	19
Jalisco	Tlaquepaque	5,563.99	24
Jalisco	Tonalá	3,225.06	36
CDMX	Cuajimalpa	2,702.90	38
México	Toluca	2,148.89	40
Jalisco	Zapopan	1,169.21	68
México	Otzolotepec	794.50	77
México	Leona	698.29	86

### Education Level

Sonora, Sinaloa and Mexico City have the highest level of education

Top 10 Municipalities by Population 18 years old and more that has at least the degree of High School by Municipality

State	Municipality	Percentage of pop	Nat Ranking
Sonora	Nogales	24.6	23
Sinaloa	Ahome	24.2	30
Sinaloa	Salvador Alvarado	24.2	31
Sonora	Cajeme	23.2	41
CDMX	Álvaro Obregón	23	46
CDMX	Miguel Hidalgo	22.7	53
Sonora	Hermosillo	22.6	59
Sonora	Guaymas	22.6	58
Sinaloa	Mazatlán	22.4	64
CDMX	Cuajimalpa	21.6	81



### Top 10 Supply Chains along the Corridor

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### ADOT

## Electric Machinery

Impo/Expo	Description	Weight (000s)	Value USD (Millions)	Truck Loads (000s)
MX Imports	Parts of Switches, Automatic Circuit Breakers, Relays or Connector	33.6	526.5	5.5
MX Exports	Parts of Switches, Automatic Circuit Breakers, Relays or Connector	31.7	369.9	6
MX Imports	Other Electrical Apparatus for Making Connection to or in	25.1	243.4	5.7
MX Exports	Electrical Plugs & Sockets, Voltage <= 1000v	21.1	252.5	4.5
MX Exports	Other Insulated Electric Conductors, Voltage <= 80v	15.6	142.2	1.8
MX Exports	Ignition Wiring Sets & Other Wiring Sets, Used in Vehicles, Aircraft or Ships	15.5	480.9	1.5
MX Exports	Other Insulated Electric Conductors, Voltage <= 80v	15.4	159.7	1.7
MX Exports	Other Electrical Apparatus for Making Connection to or in	9.6	144.7	2.3
MX Exports	Electrical Circuits, Voltage <= 1000v	9	143.2	0.5
MX Exports	Radio Remote Control Apparatus	8.8	55.6	1.2
MX Exports	Co-Axial Cable & Other Co-Axial Electric Conductors	8.8	55.6	1.2
MX Imports	Printed Circuits	6.2	53.8	3.6
MX Imports	Optical Fibre Cables, Made of Plastics Individually Sheathed Fibres	5.6	69.4	1
MX Imports	Parts of Motors, of Generators, of Generating Sets, of Rotary Converters	5.5	28.2	0.5

### ADOT

## Auto Parts

- Electric machinery and auto parts have a more balanced trade
- Parts use rail compared to other commodities

Impo/Expo	HS Code Description	Weight (000s)	Value USD (Millions)	Truck Loads (000s)
MX Exports	Other Parts & Accessories of Bodies (Incl. Cabs) of Motor Vehicles	24.6	190.6	4.2
MX Imports	Other Parts & Accessories of Bodies (Incl. Cabs) of Motor Vehicles	15.3	175	2.3
MX Exports	Brakes and Servo-Brakes; Parts Thereof	10.3	42	1.1
MX Imports	Suspension Shock Absorbers of Motor Vehicles	5.7	31.3	0.6
MX Imports	Brakes and Servo-Brakes; Parts Thereof	5.5	51.7	0.5

### ADOT

## Fruits and Vegetables

- Sinaloa, Jalisco and Michoacan are key production states
- Distances, Tolls, Travel Times and Costs were estimated for each O-D pair.

Key Fruits and Vegetables Origin and Destination

### ADOT

## Fruits and Vegetables

Origin/ Destination	Travel Time (Hours)			
	Nogales	Cd. Juárez	Nuevo Laredo	Reynosa
Culliacan	14:00 - 15:00	20:00	36:00 - 48:00	24:00
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	<b>5,663</b>	<b>4,526</b>	<b>3,977</b>	<b>3,188</b>
Guadalajara	4,345	3,899	2,334	1,611
	<b>6,954</b>	<b>6,183</b>	<b>3,735</b>	<b>2,977</b>

Bold = Full trailers

### ADOT

## Other Commodities

Fruits and Vegetables

- Paperboard Boxes
- Plastic Containers
- Wood Pallets

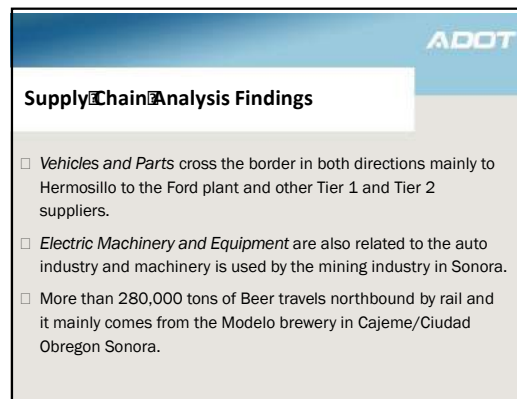
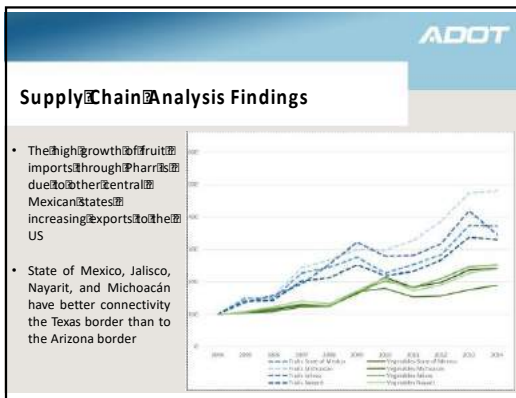
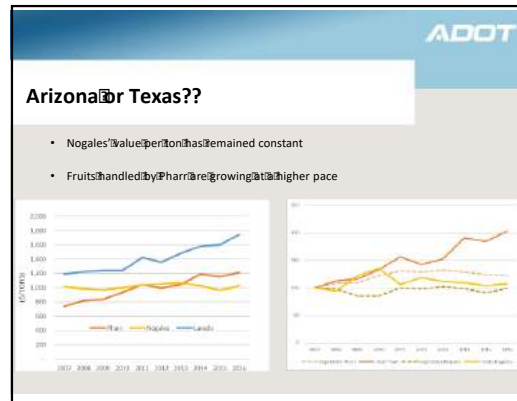
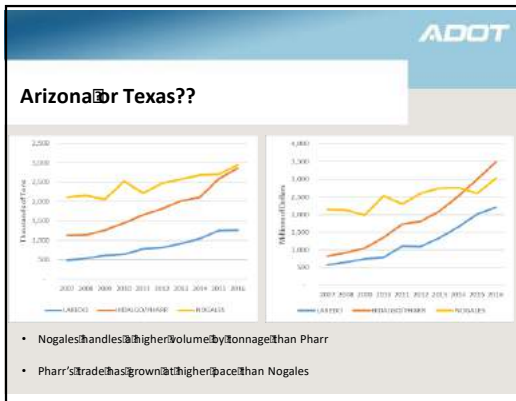
- Paper and cardboard products are used for packaging and wrapping fresh produce. Almost 400,000 tons of paper and cardboard crossed the Arizona-Mexico border 1/3 U.S. exports.
- Plastics are imported to produce packaging and plastic boxes. Reusable plastic containers (RPCs) are imported in bulk and then exported with fresh produce. Plastic pallets are also used by the fruits and vegetable industry.
- Wood is used to produce pallets to handle produce.

### ADOT

## Arizona or Texas??

**Travel Times:**  
Nogales - 15 hrs  
Reynosa - 24 hrs

**Rates:**  
Nogales - \$1,570 (\$2,900)  
Reynosa - \$2,500 (\$3,800)





**ADOT**

### Task 2: Multimodal System Condition and Performance

- Objective:**
  - Develop practical performance measures to inform system improvement decisions and investments.
- Approach:**
  - Develop practical performance measures to compare performance of specific assets both over time and geographically.

**ADOT**

### Task 2: Multimodal System Condition and Performance

Performance Category	Performance Objective	Performance Measures
Asset Management	Maintain the corridor in state of good repair (SOGR)	Pavement Conditions
		Bridge Conditions
		Height-restricted bridges
		Truck size- and weight-restricted roadways
Mobility	Improve mobility and connectivity	Rail track weight limits
		Clearance heights for double-stack rail cars
		Traffic level of service (LOS)
Efficiency and Reliability	Increase corridor efficiency and improve travel time reliability	Average truck travel speed
		Rail operating speeds
		Truck delay
		Truck travel time index (TTTI)
		Truck planning time index (TPTI)

**ADOT**

### Task 2: Multimodal System Condition and Performance

Performance Category	Performance Objective	Performance Measures
Asset Management	Maintain the corridor in state of good repair (SOGR)	Pavement Conditions
Safety	Improve corridor safety	Number of trucks involved in fatal crashes
		Number of trucks involved in injury crashes
Security	Improve corridor security	Number of thefts
Cross-Border Connections	Reduce delays at ports of entry (POEs)	Truck border crossing time
		Truck buffer index at border crossings
		Number of train crossings

**ADOT**

### Task 2: Multimodal System Condition and Performance

Performance Category	Performance Objective	Performance Measures
Logistics Performance	Improve logistics performance of selected key industries/supply chains	Transit time index
		Transit time reliability index
Policy and Regulations	Modify/eliminate policies/regulations that affect/impeid efficient freight operations in the corridor	Logistics Cost Index
		Inspections along the corridor
		POE hours of operation
		Truck size and weight limitations and permitting processes

### Asset Management

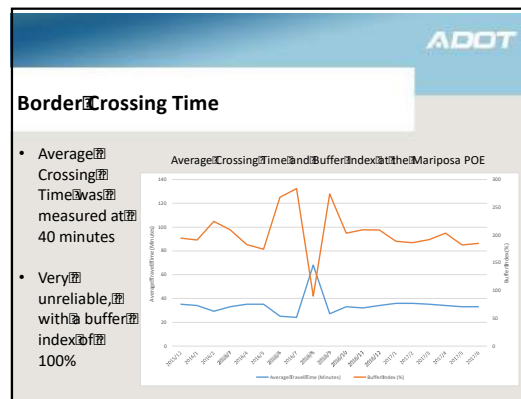
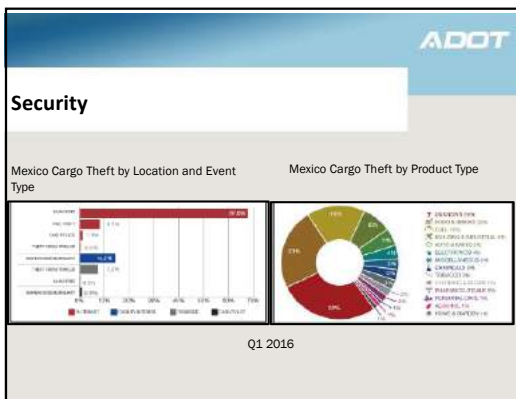
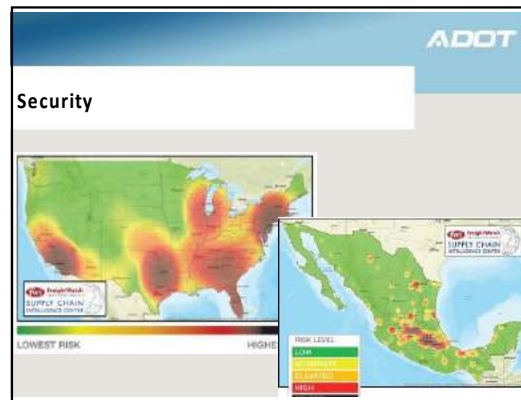
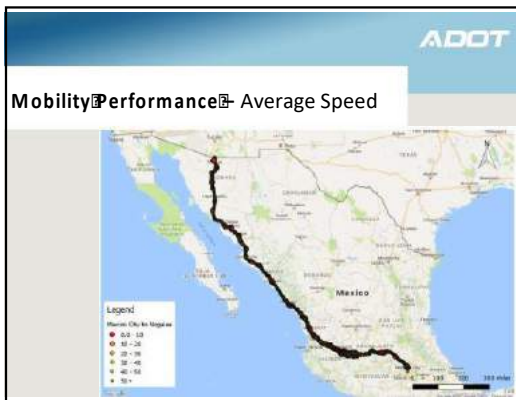
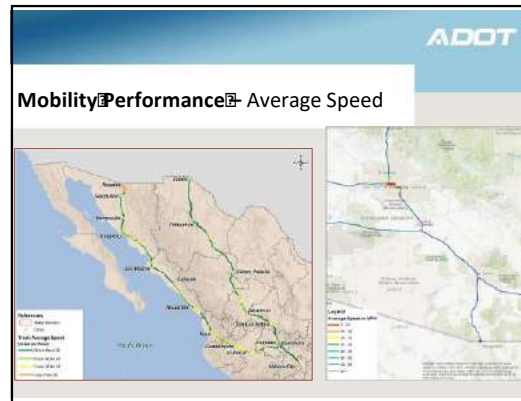
#### Truck size and weight restricted roadways

- East-West connections do not allow full trailers
- Pacific and Central Corridors have ET and A roadways

### Asset Management

#### Rail double stack clearance

- The Pacific Corridor has 5 tunnels between Guadalajara and Tepic that do not allow for double-stack trains



**ADOT**

### Performance Measures Data Sources

Performance Category	Performance Objective	Performance Measures	AZ Data Source	Mex Data Source
Asset Management	Maintain the corridor in state of good repair (SOGR)	Pavement Conditions	ADOT, Highway Performance Monitoring System (HPMS) dataset	SCT, Dirección General de Servicios Técnicos (data not publicly available)
		Bridge Conditions	ADOT Bridge Inventory	N/A
	Height-restricted bridges	ADOT's Intermodal Transportation Division Engineering Permits Section	SCT, bridge location database (data is not publicly available)	
	Truck size- and weight-restricted roadways	FHWA, ADOT	SCT, (NOM-012)	
	Rail track weight limits	Union Pacific Railroad	Ferromex	
	Clearance heights for double-stack rail cars	Union Pacific Railroad	Ferromex	

**ADOT**

### Performance Measures Data Sources

Performance Category	Performance Objective	Performance Measures	AZ Data Source	Mex Data Source
Mobility	Improve mobility and connectivity	Traffic Level of Service (LOS)	Arizona Travel Demand Model Version 2	SCT, Dirección de Servicios Técnicos
		Average truck travel speed	FHWA's Freight Performance Measure Class Railroads	SCT, Velocidades de Punto de Ferrocarriles
Efficiency and Reliability	Increase corridor efficiency and improve travel time reliability	Rail operating speeds	ADOT's PMS data, HERE data	Ferromex, Asociación Mexicana de Ferrocarriles
		Truck delay	ADOT's HERE data	N/A
Safety	Improve corridor safety	Truck Travel Time Index (TTTI)	ADOT's HERE data	Trucking firms that provided global positioning system (GPS) information (limited data available)
		Truck Planning Time Index (PTI)	ADOT's HERE data	N/A
		Number of trucks involved in crashes	FMCSA's Motor Carrier Management Information System (MCMS), Fatality Analysis Reporting System (FARS)	SCT, Accident Data Acquisition and Management System (SAADA)

**ADOT**

### Performance Measures Data Sources

Performance Category	Performance Objective	Performance Measures	AZ Data Source	Mex Data Source
Security	Improve corridor security	Number of thefts	FreightWatch International	
Cross-Border Connections	Reduce delays at ports of entry (POEs)	Truck border crossing time	Border Crossing Information System (BCIS) (northbound)	
		Truck Buffer Index at border crossings	Border Crossing Information System (BCIS) (northbound)	
Logistics Performance	Improve logistics performance of selected key industries/supply chains	Number of train crossings	Class Railroads, CBP	Ferromex, Aduana
		Transit time	ADOT's HERE data, BCIS	N/A

**ADOT**

### Performance Measures Data Sources

Performance Category	Performance Objective	Performance Measures	AZ Data Source	Mex Data Source
Policy and Regulations	Modify/eliminate policies/regulations that impede efficient freight operations in the corridor	Inspections along the corridor	CBP, FMCSA, ADOT, FDA	Mexican Military and Police, Aduanas, SAGARPA
		POE hours of operation	POEs	
		Truck size and weight limitations and permitting processes	ADOT	SCT, DGAF (Dirección General de Autotransporte Federal)

**Value Judgement Indicators**

- Quantitative performance measures are supplemented by qualitative measures or value judgement indicators
- Provide insight or PFI where little or no data are available
- LPI

**ADOT**

### Preliminary Recommendations

**Fruits and Vegetables Dominance**

- Produce joint inspections
- Measure Querobabi's impact
- Refrigerated warehousing
- Capture Nayarit, Jalisco and Michoacán markets
- Create synergies to handle fruit exports

**Port of Entry**

- Hours of operation
- Fiscal corridor location of Aduanas

**ADOT**

### Preliminary Recommendations

**Rail and Multimodal**

- Double stack rail from Central Mexico
- Full trailers through CBP, State and FMCSA

**Emerging industries**

- Electric vehicles
- Auto parts