

# MINISTRY OF TRANSPORT



# OUR MISSION

Implement the most ambitious infrastructure plan in the history of the country, fostering growth and development.

- **Transform, and modernize all the transport infrastructure.**
- Eliminating corruption and **securing transparency** in purchases and contracts.
- Prioritizing **sustainable transport** modes all over the country.
- **Enhancing, extending and modernizing** the **freight logistics matrix**: reaching a better capacity for waterways, recovering the railway freight system and facilitating private investment processes.
- **Optimizing safety** in all possible ways and across all forms of transport.
- Empowering air transport with a new map of commercial aviation to enhance connectivity.

# ROADS

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# NATIONAL ROAD NETWORK

## Plan 2016-2019



Today: 40% of roads are risky and in poor safety conditions



New highway design between Rosario and Sunchales

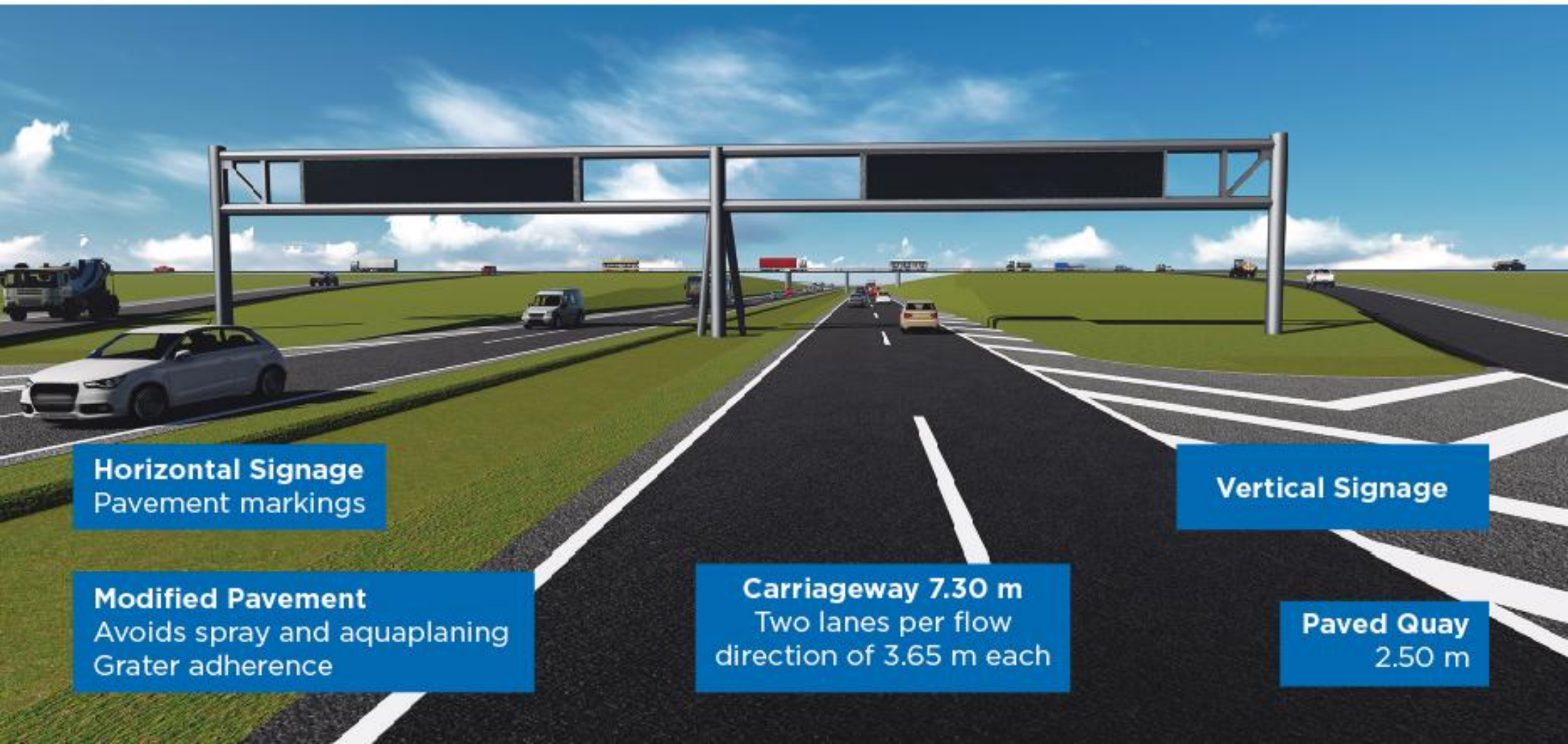


# WHERE WE ARE



# WHERE WE ARE GOING

## Motorways



**Horizontal Signage**  
Pavement markings

**Modified Pavement**  
Avoids spray and aquaplaning  
Grater adherence

**Carriageway 7.30 m**  
Two lanes per flow  
direction of 3.65 m each

**Vertical Signage**

**Paved Quay**  
2.50 m

# WHERE WE ARE GOING

Safe Road



**Horizontal Signage**  
pavement markings

**Paved Quay**  
2.50 m

**Modified Pavement**  
Avoids spray and aquaplaning  
Grater adherence

**Carriageway 7.30 m**  
One lane per flow direction of  
3.65 m each

**Vertical Signage**

**Third Line**  
3.65 m

# NATIONAL ROAD NETWORK

## Long-term plan for 2027



**28,000 M USD**

**11,400 km** of new highways

**13,000 km** of safe roads

**15,600 km** of routes in good conditions

New bridge between Corrientes and Resistencia



New highway between Rosario de la Frontera and Metán



# INSTITUTIONAL IMPROVEMENTS

## Management

- Organization restructuring by processes and specialties  
(Engineering, Procurement, Construction, Maintenance, etc..)
- Strengthening the team with experienced private sector professionals

## Tender Process

- Adequacy of the terms of participation to each work
- Open to the participation of constructors from other sectors and international companies (International Tender)
- Greater transparency and information  
(Free digital documentation)
- Digitalization and centralized management of Q&A processes

## Works Control

- Construction Inspectors
- Quality Inspectors

# WORK TENDERS IN JULY

## **National Road 19: Córdoba - San Francisco - Publication 1/7 - 153 km - 558 M USD (International)**

- Highway 2+2 draw 100% new - 4 lots (32 km, 29 km, 58 km, 34 km)
- Possibility to bid for all sections - Maximum awarding: 2 lots per bidder
- International Tender - BID Tender Conditions - Ad referendum BID financing
- **More Information:** [www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf](http://www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf)

## **National Road 7: Carmen de Areco - Chacabuco - Publication 8/7 - 80 km - 160 M USD (International)**

- 2 lots - 56 km carriageway duplication, 24 km new carriageway (2+2)
- Possible joint bid
- International Tender - DNV Tender Conditions
- **More Information:** [www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf](http://www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf)

## **National Road 3: Puerto Madryn - Trelew - 30/7 - 21 km - 44 M USD**

- Adequacy and duplication of carriageway
- National Tender - DNV Tender conditions
- **More Information:** [www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf](http://www.vialidad.gob.ar/licitacionesdeobra/2016/proyecto/LICITACION-RN19-CBA.pdf)

# Construction Work Tender

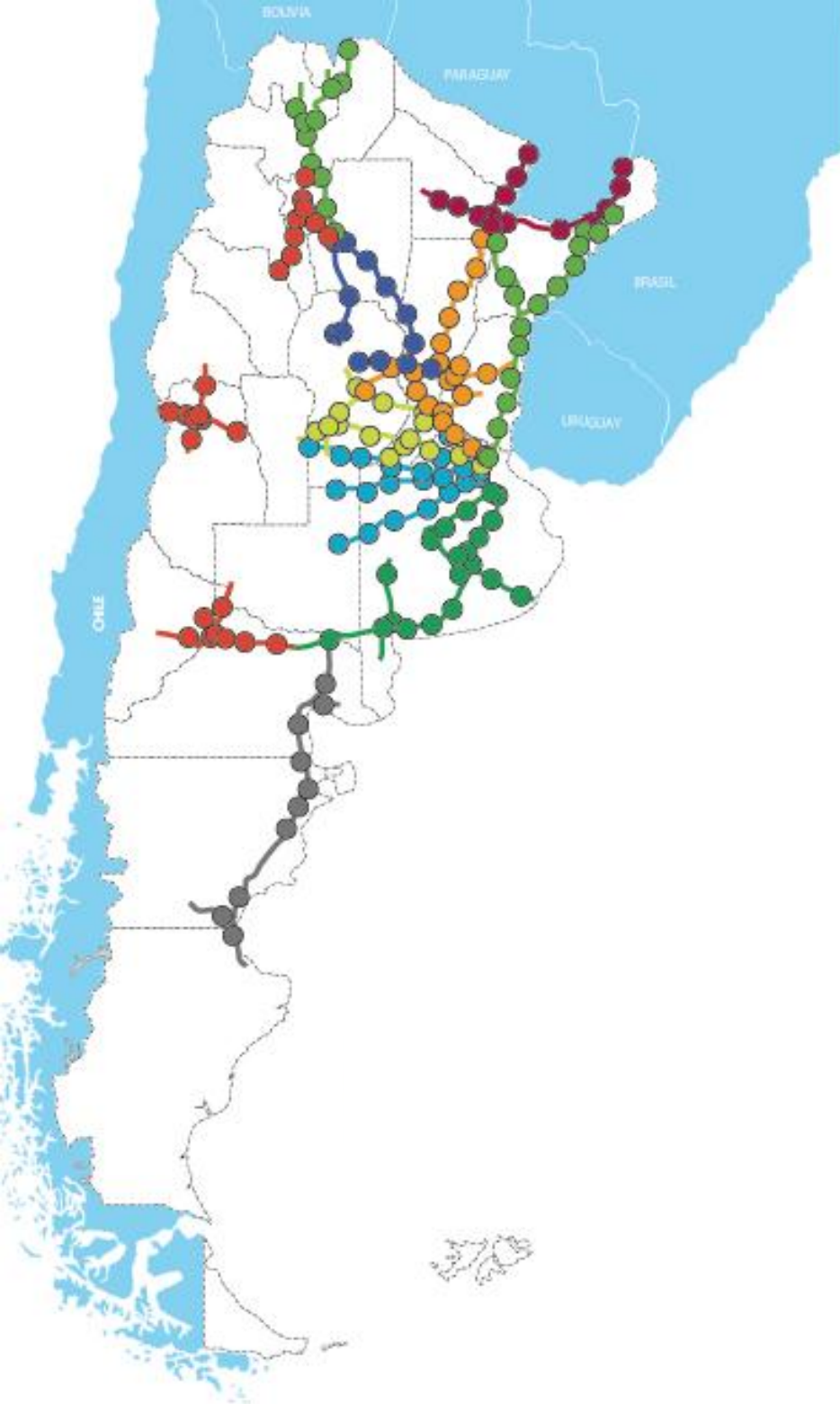
## Program 7/2016 - 6/2017

ROUTE	STRETCH	SECTION	KMS	WORK
RN. 0003	Cañuelas - Azul	Variante S. M. Monte	11	Duplication
RN. 0003	Azul - Bahía Blanca	Ingreso a Bahía Blanca - Int. RN 33	15	Duplication
RN. 0003	Azul - Bahía Blanca	Int. RN 33 - Int. RN 22	22	Duplication
RN. 0003	Puerto Madrin - Trelew	Accesos a Puerto Madryn	10	Duplication
RN. 0003	Puerto Madrin - Trelew	Puerto Madryn - Trelew	50	Repaving
RN. 0003	Puerto Madrin - Trelew	Accesos a Trelew y travesía urbana	11	Duplication
RN. 0003	Ringroad Cdro. Rivadavia	Circ. a Comodoro (Sección 1, 1ra calzada)	13	Complex
RN. 0009	Córdoba - Santiago del Estero	A° Carnero - Villa Totoral	40	Duplication
RN. 0009	Corredor del NOA	Acc. Lastenia - Int. RN 38	5	Duplication
RN. 0009	Corredor del NOA	Acc. Cadillal - Acc. Raco	9	Duplication
RN. 0011	Conexión Vial Santa Fe - Santo Tomé	Puente Nuevo	7	Complex
RN. 0033	Bahía Blanca - Pigué	Int. RN 3 - Int. ExRN 33	8	Duplication
RN. 0033	Rufino - Rosario	Rufino - Venado	100	Duplication
RN. 0033	Rufino - Rosario	Firmat - Sanford	49	Duplication
RN. 0033	Rufino - Rosario	Sanford - Int. RN A08	52	Duplication
RN. 0034	Corredor del NOA	Rosario de la F - Metán	34	Duplication
RN. 0033	Rufino - Rosario	Firmat - Sanford	90	Duplication
RN. 0009	Corredor del NOA	Metán - Int. RN 9	20	Complex
RN. 0034	Corredor del NOA	Int. RN 9 - Lte. St/Ju (Variante Güemes)	46	Duplication
RN. 0034	Corredor del NOA	Lte. St/Ju - San Pedro de Jujuy	8	Duplication
RN. 0038	Camino de la Sierra	Costa Azul y puente	63	Complex
RN. 0034	Corredor del NOA	Int. RN 9 - Lte. St/Ju (Variante Güemes)	109	Duplication
RN. 0034	Corredor del NOA	Lte. St/Ju - San Pedro de Jujuy	122	Duplication
RN. 0040	Barrancas - Malargüe	La Pasarela - Int. RP 181	41	Paving

# CONCESSIONS

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# Concessions



## General Guidelines:

- Extension of the actual network (+15.000 Km).
- Categorization by their ability to pay, investment, operation and maintenance.
- Self-sustaining Concessions.
- State Investment in Works.
- Promotion of the continuous improvement.
- Competitiveness for user.

## Tender Main Conditions

- Local and international Companies.
- Individually prior prequalification.
- Individual or consortium bids.
- Management background qualification.
- Maximum term 25 years.
- Shorter period.
- Concessions Law 17,520.

# ECONOMIC STRUCTURE

## Concessions

- **Investments (23,000 M USD approx.)**
  - Initial works
  - Obligatory works
  - Capacity expansion works on demand
  - Additional works
- **Revenues (51,000 M USD approx.)**
  - Toll fee for right of way (in \$ adjustable for inflation)
  - Available toll plaza (known traffic) and new toll plaza
  - Minimum revenue guaranteed
  - Electronic collection
  - Toll rate adjustable by quality factor (Q)
- **Expenses (15,000 M USD approx.)**
  - Conservation and maintenance (O&M)
  - User services

# SCHEDULE

## Concessions

- Concessions to tender - (11 in successive calls)
- Bidding's average time – 180 days
- Tender publication - 2nd half 2016
- Bidding expected 1st half 2017
- Operation start - 1st half 2017

# CONCLUSION

- **LONG TERM INVESTMENT PLAN (12 YEARS)** \_\_\_\_\_ **28,000 M USD**
- **FIRST FOUR YEARS INVESTMENTS** \_\_\_\_\_ **12,500 M USD**
  - 2,800km new motorways
  - 4,000 km safe roads
  - 13,000 km paving
  - 1,030 works
  - 250 new projects
- **NEXT 12 MONTHS CHALLENGE** \_\_\_\_\_ **2,300 M USD**
  - 1,200 km new work
  - 50 engineering projects (3,200 km)
- **NEW CONCESSIONS TO TENDER 2016/2017** \_\_\_\_\_ **15,000 km**
  - 25 years term

# RAIL SECTOR

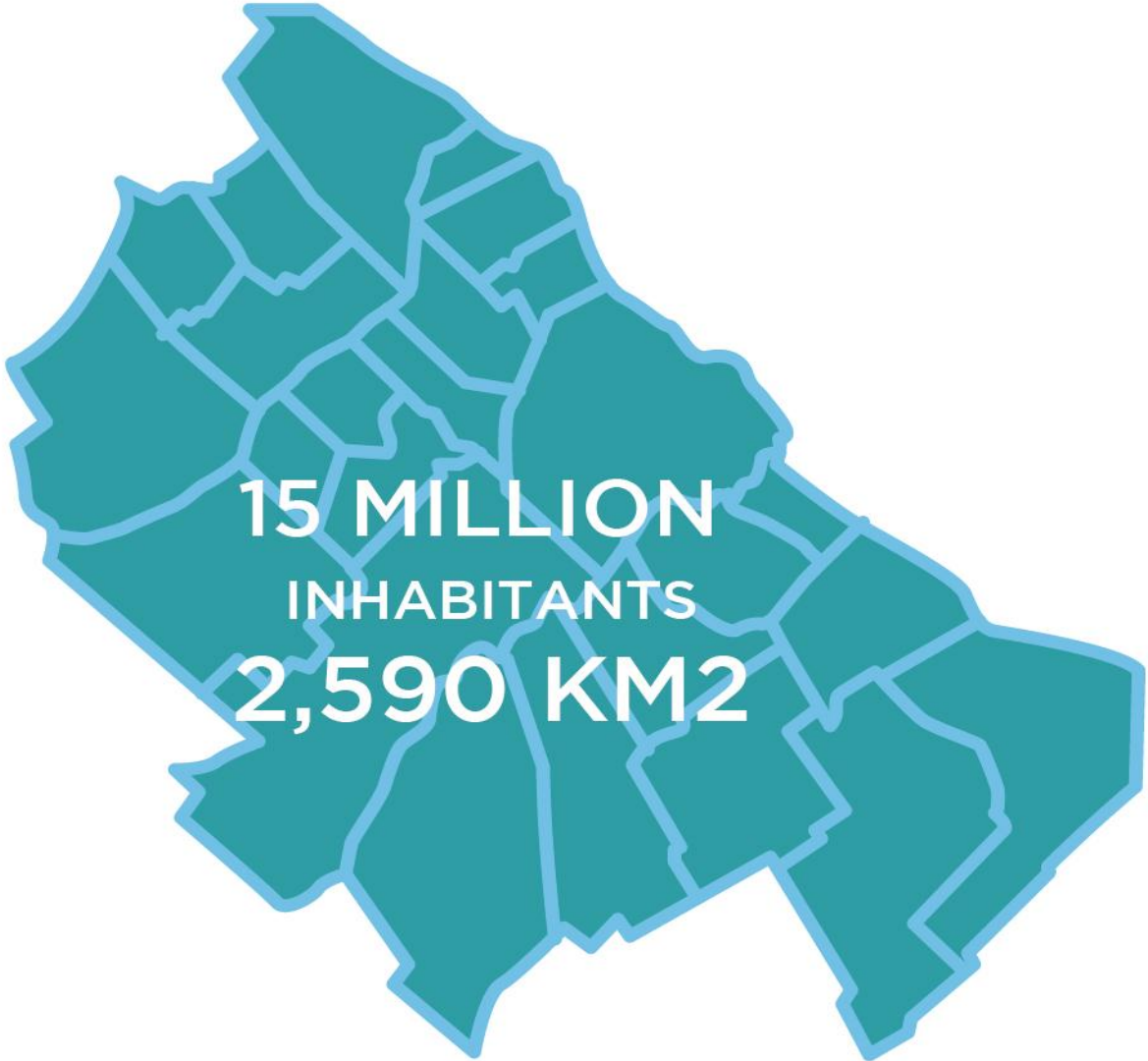
## 2016-2035 Investment Plan

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- Urban Rail
- Freight Rail

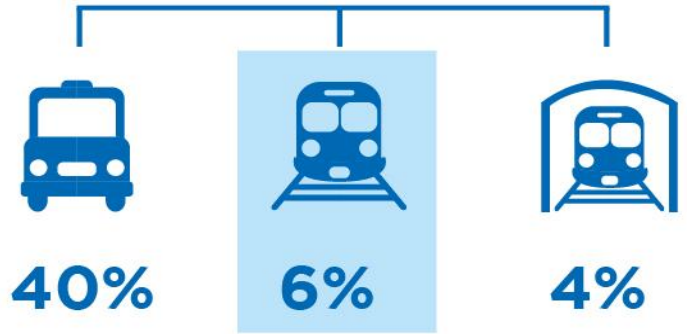
# METROPOLITAN REGION OF BUENOS AIRES

Urban



22.000.000  
daily trips

PUBLIC TRANSPORT  
59%

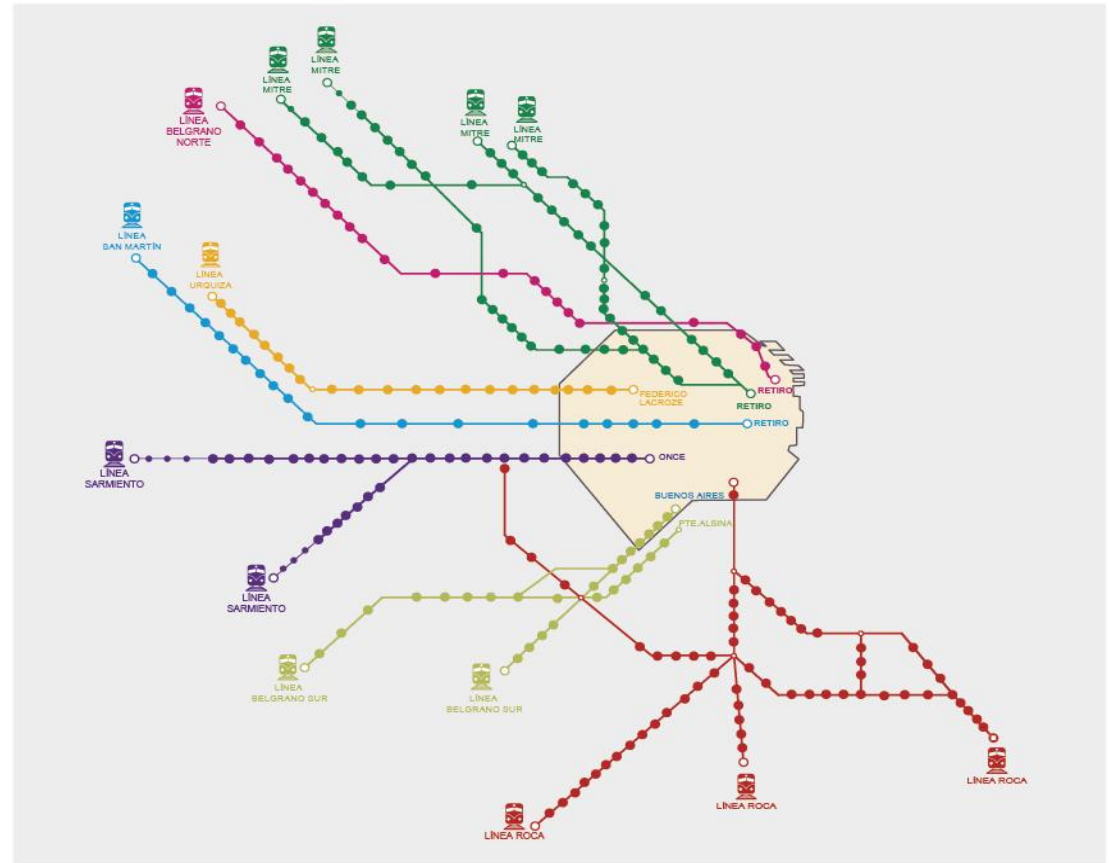


# URBAN RAILWAY TODAY

The Buenos Aires Metropolitan Railway Network, which started operations in 1857, is 850 km (528 miles) long. It is one of the largest railways worldwide.

## Urban

- **7** Metropolitan Lines
- **1365** Cars
- **278** Stations
- **2166** Daily Journeys
- **1.3 M** Daily Passengers
- **2.7 M** Daily System Capacity



## Infrastructure Problems - Current Situation

● **Track**

● **Signals**

● **Rolling Stock**

## 850 km-Long Metropolitan Network

 **17%**

143 kms

- Speed less than 40 km/h
- Retiro Station switch yard: installation is > than 80 years old, high failure rate

 **40%**

337 kms

- Speed less than 70km/h
- Tracks have wooden sleepers, useful life of materials about to expire

 **43%**

370 kms

- Speed up to 120km/h

 Critical

 Regular

 Good

### 850 km-Long Metropolitan Network

 **60%**

510 kms

Mechanical signals  
is 100 year old

 **30%**

255 kms

Automatic signals:  
average life of 40 years

46 kms have ATS

 **10%**

85 kms

Have modern installations

 Critical     Regular     Good

Note: Our 850km-long network equals approximately to 1700 km of track

# ROLLING STOCK

## Current Situation

Type	Cars	Description	Age
<b>Electric Cars</b>	<b>874</b>		
- Broad Gauge	469	Catenary 25,000 V AC	66% 1 year, 34% 32 years
- Broad Gauge	405	3rd Rail 800 V DC	100% 2 years
<b>Diesel Cars</b>	<b>491</b>		
- Broad Gauge	258	Locomotive - Trailer car	65% 4 years, 35% 50 years
- Narrow Gauge	233	Locomotive - Trailer car	33% 1 year, 67% 54 years
<b>Current Fleet</b>	<b>1365</b>		

### Old Diésel Rolling Stock

- Poor passenger comfort, system close to maximum capacity
- High failure rate
- High maintenance costs



# INVESTMENT PLAN TO TRANSFORM THE METROPOLITAN RAILWAY SYSTEM

Urban

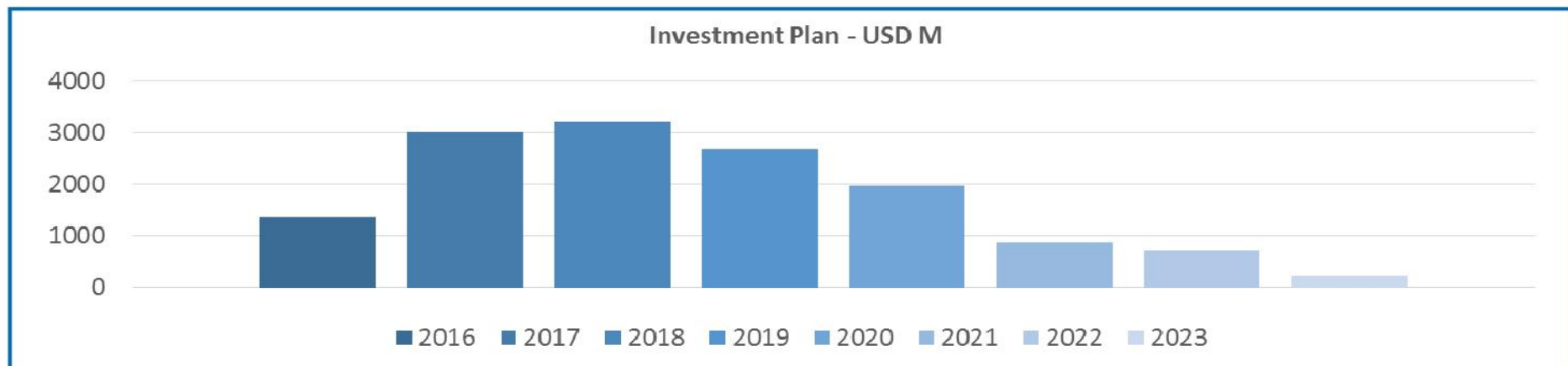
Investment  
Plan

- Regional Express Rail (RER)
- Sarmiento Line Tunnelling Project
- Electrification of Diesel Services
- Automatic Brake Technology (ATS)
- Total renewal of track infrastructure and signals
- 200 new stations
- New rolling stock acquisition
- Change level crossings to different levels

# INVESTMENT PLAN

## Urban

Main actions	Investment (M USD)								Total
	2016	2017	2018	2019	2020	2021	2022	2023	
Stations	135	115	40	0	0	0	0	0	290
Infrastructure	1,200	2,500	2,630	2,200	1,500	315	110	0	10,455
Rolling Stock	20	370	535	465	465	560	610	225	3,250
Technology	20	35	35	30	0	0	0	0	120
<b>Total</b>	<b>1,370</b>	<b>3,020</b>	<b>3,240</b>	<b>2,695</b>	<b>1,965</b>	<b>875</b>	<b>720</b>	<b>225</b>	<b>14,115</b>



# INTERNATIONAL TENDERS - ROLLING STOCK

## Urban

Detail	Units	Total	2016	2017	2018	2019	2020	2021	2022	2023
<b>Broad Gauge Electric Cars (1676/25kv, 50hz)</b>	U\$S M	<b>2,277</b>	<b>42</b>	<b>119</b>	<b>173</b>	<b>152</b>	<b>397</b>	<b>452</b>	<b>440</b>	<b>501</b>
Number of Cars	units	<b>1,504</b>	<b>0</b>	<b>100</b>	<b>100</b>	<b>128</b>	<b>128</b>	<b>349</b>	<b>349</b>	<b>350</b>
<b>Narrow Gauge Electric Cars (1000/25kv, 50hz)</b>	U\$S M	<b>525</b>			<b>79</b>	<b>112</b>	<b>112</b>	<b>112</b>	<b>112</b>	
Number of Cars	units	<b>350</b>				<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	
<b>Electric Cars Maintenance</b>	U\$S M	<b>193</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>42</b>	<b>30</b>	<b>97</b>
Broad Gauge	U\$S M	<b>168</b>					<b>24</b>	<b>36</b>	<b>24</b>	<b>85</b>
Narrow Gauge	U\$S M	<b>25</b>						<b>6</b>	<b>6</b>	<b>12</b>
<b>Total</b>	USD M	<b>2,994</b>	<b>42</b>	<b>119</b>	<b>252</b>	<b>264</b>	<b>532</b>	<b>606</b>	<b>582</b>	<b>598</b>

# INTERNATIONAL TENDERS – KEY INFORMATION

## Urban

### Bid Broad Gauge EMUs. Key Data:

- 188 Electric Multiple Units (EMU), 8-car formation.
- Includes provision of spare parts, medium and heavy maintenance
- Deliverables:
  - Phase 1: 100% manufacturing in country of origin
  - Phase 2: addition of parts made in Argentina

### Bid Narrow Gauge EMUs. Key Data:

- 50 Electric Multiple Units (EMU), 7-car formation
- Includes provision of spare parts, medium and heavy maintenance
- Deliverables:
  - Phase 1: 100% manufacturing in country of origin
  - Phase 2: addition of parts made in Argentina

# INTERNATIONAL TENDERS - KEY INFORMATION

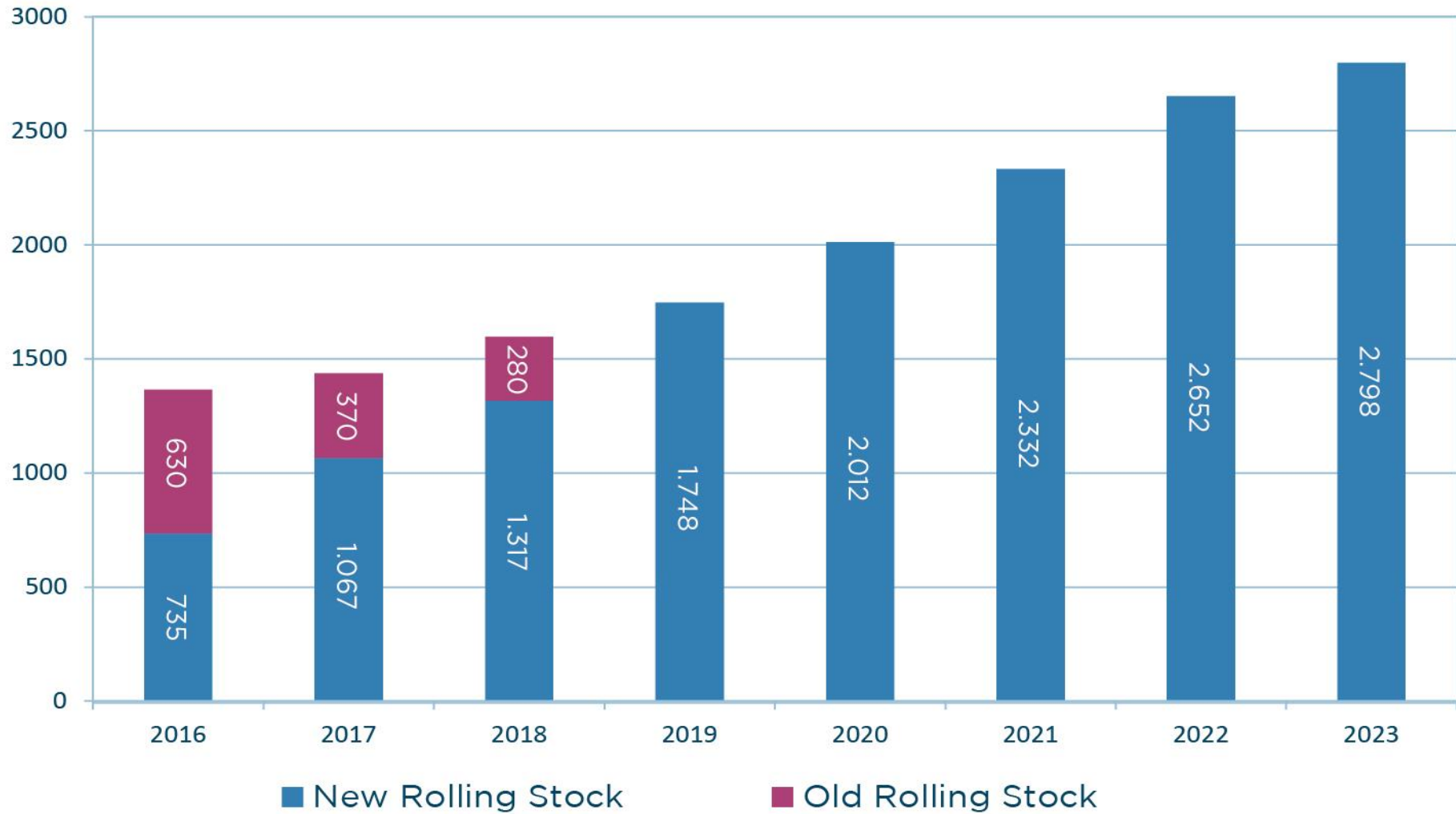
## Urban

- Bidders must secure **local facilities** for the assembling of national parts, and capacity for medium and heavy maintenance
- **Required financing offered** in the **Proposal** will have significant weight
- Bidders must be locally-established companies or have local representatives
- Warranty Period: 24 months
- Award Timelines:

Contracts	Tender Dates	Award Dates	Start-Up Dates
Broad Gauge EMUs	sep-16	dic-16	dic-17 / jul - 23
Narrow Gauge EMUs	ago-18	nov-18	mar-20 / jul-22

# FLEET GROWTH PROJECTION

Urban



The logo consists of the letters 'RER' in a bold, blue, stylized font. The letters are interconnected, with the 'R' and 'E' sharing a common base and the 'E' and 'R' sharing another. The 'E' has a unique shape with a horizontal bar that is slightly offset from the vertical stems. The overall design is modern and geometric.

REGIONAL EXPRESS RAIL



**ESTACIÓN  
RETIRO**

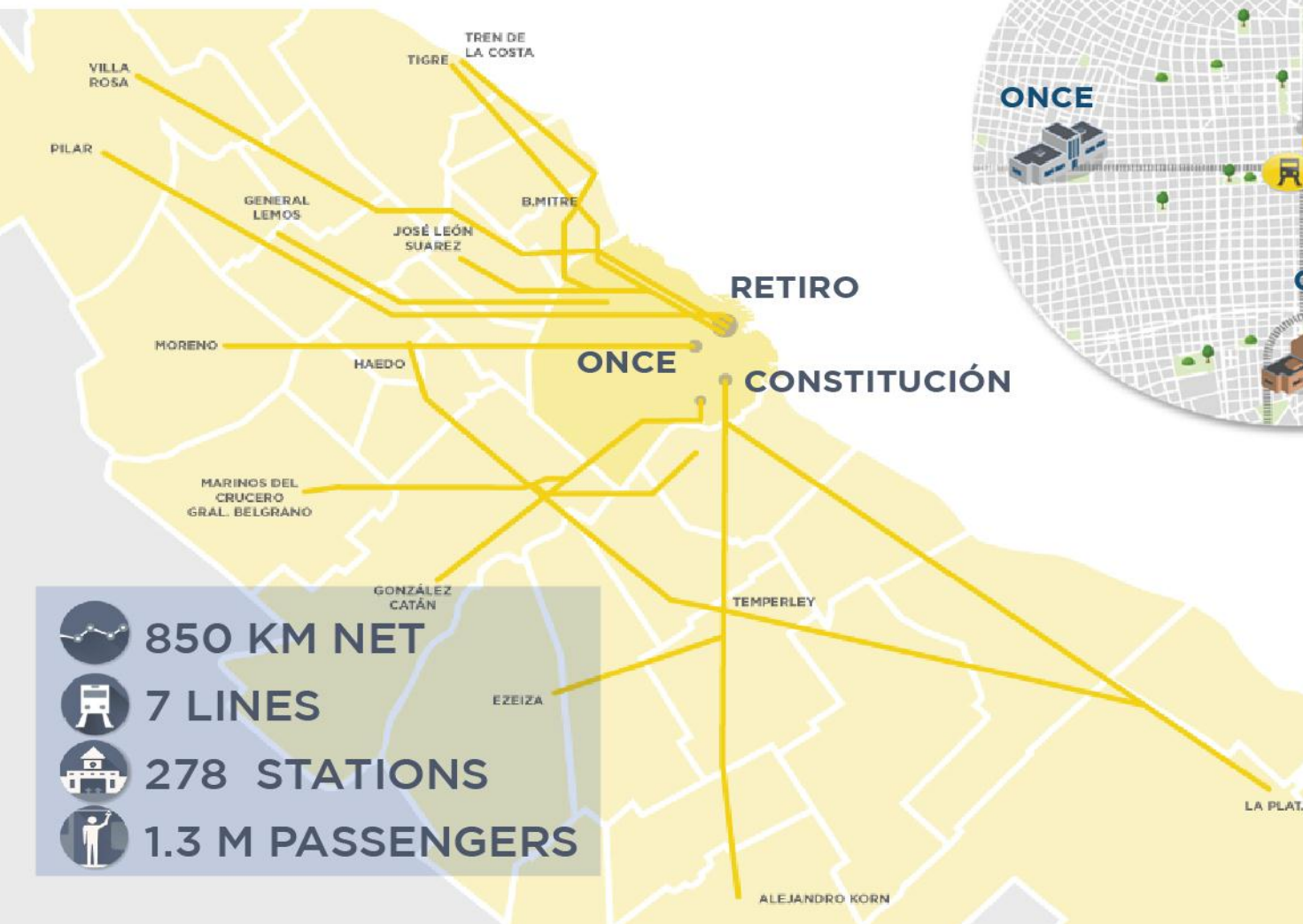
**ESTACIÓN  
ONCE**

**ESTACIÓN CENTRAL  
OBELISCO**

**ESTACIÓN  
CORREO CENTRAL**

**ESTACIÓN  
CONSTITUCIÓN**

# CONNECTION OF RAILWAY NETWORKS IN THE CITY CENTER



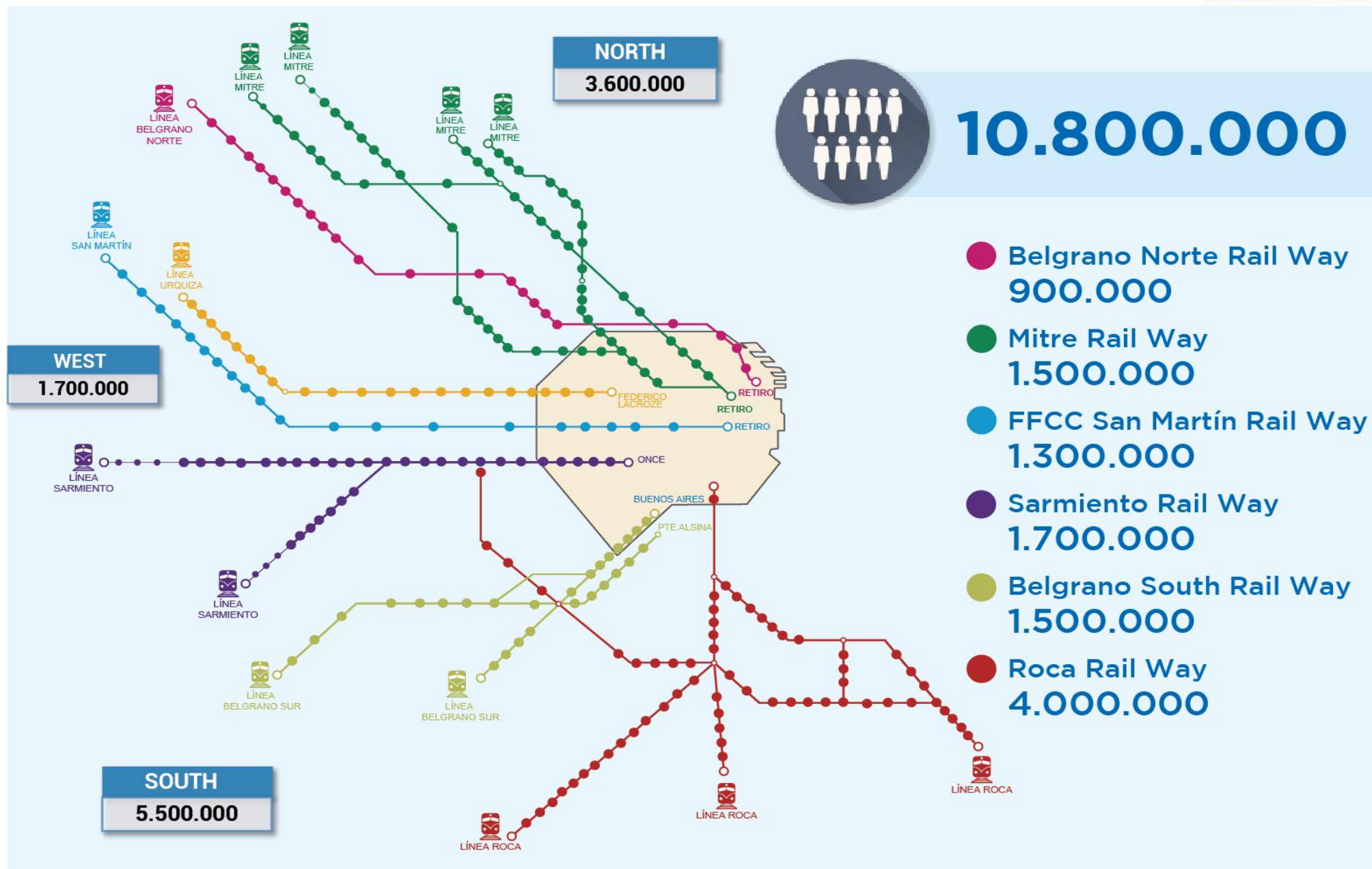
## CONNECT:

- 790km
- 241 STATIONS

Better connections between:

- ✓ Province-City
- ✓ Province-Province
- ✓ City-City

# TOTAL BENEFITED POPULATION



# SARMIENTO'S UNDERGROUNDING INVESTMENTS IN PROGRESS



**TOTAL INVESTMENT**  
**U\$S 3.000 M**

Elimination of 49 low level crossings  
20,000 daily vehicles  
180,000 daily passengers  
25% travel time reduction



# ROCA ELECTRIFICATION INVESTMENTS IN PROGRESS

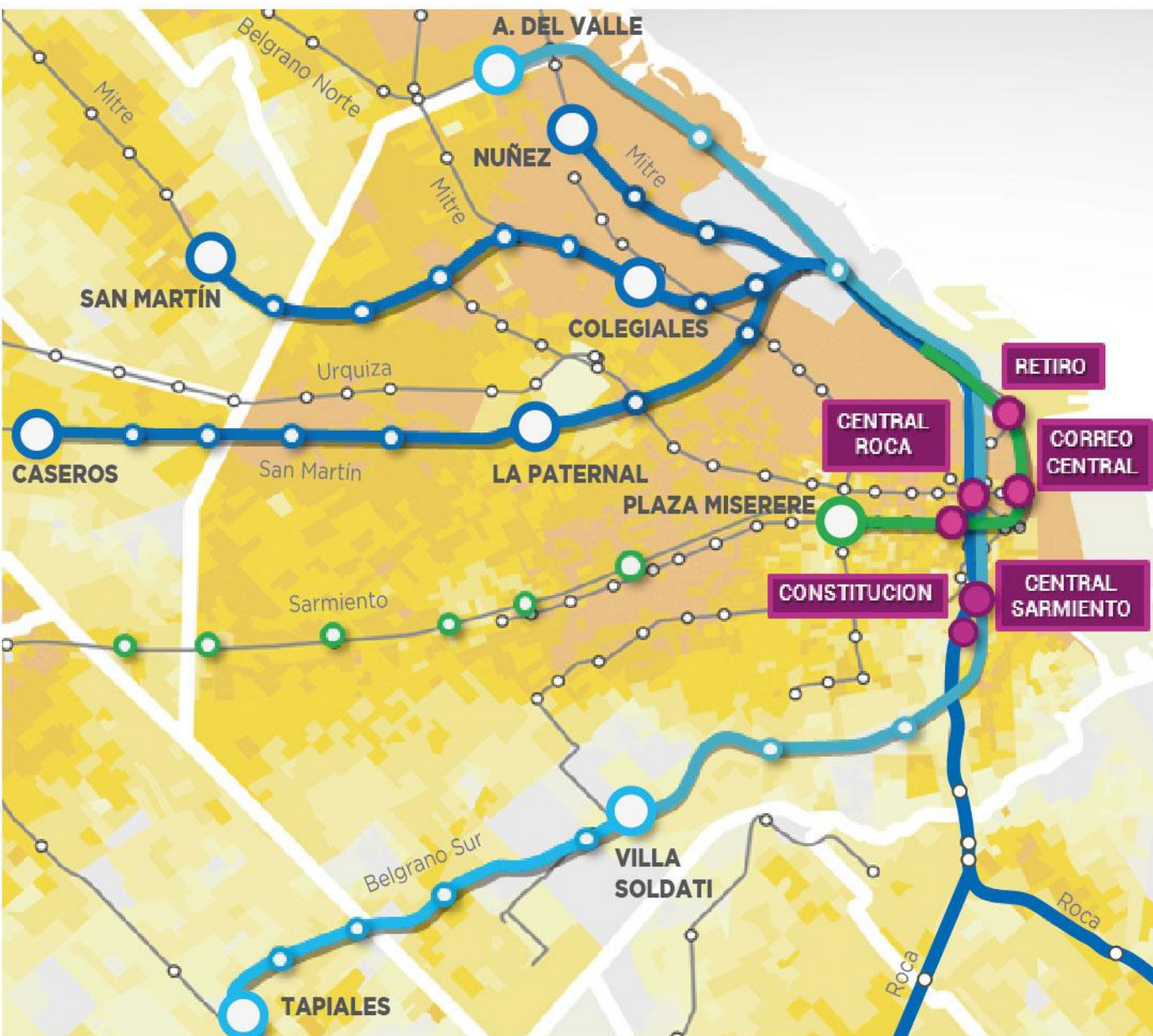


TOTAL INVESTMENT  
**U\$S 500 M**

IN PROGRESS  
**U\$S 175 M**

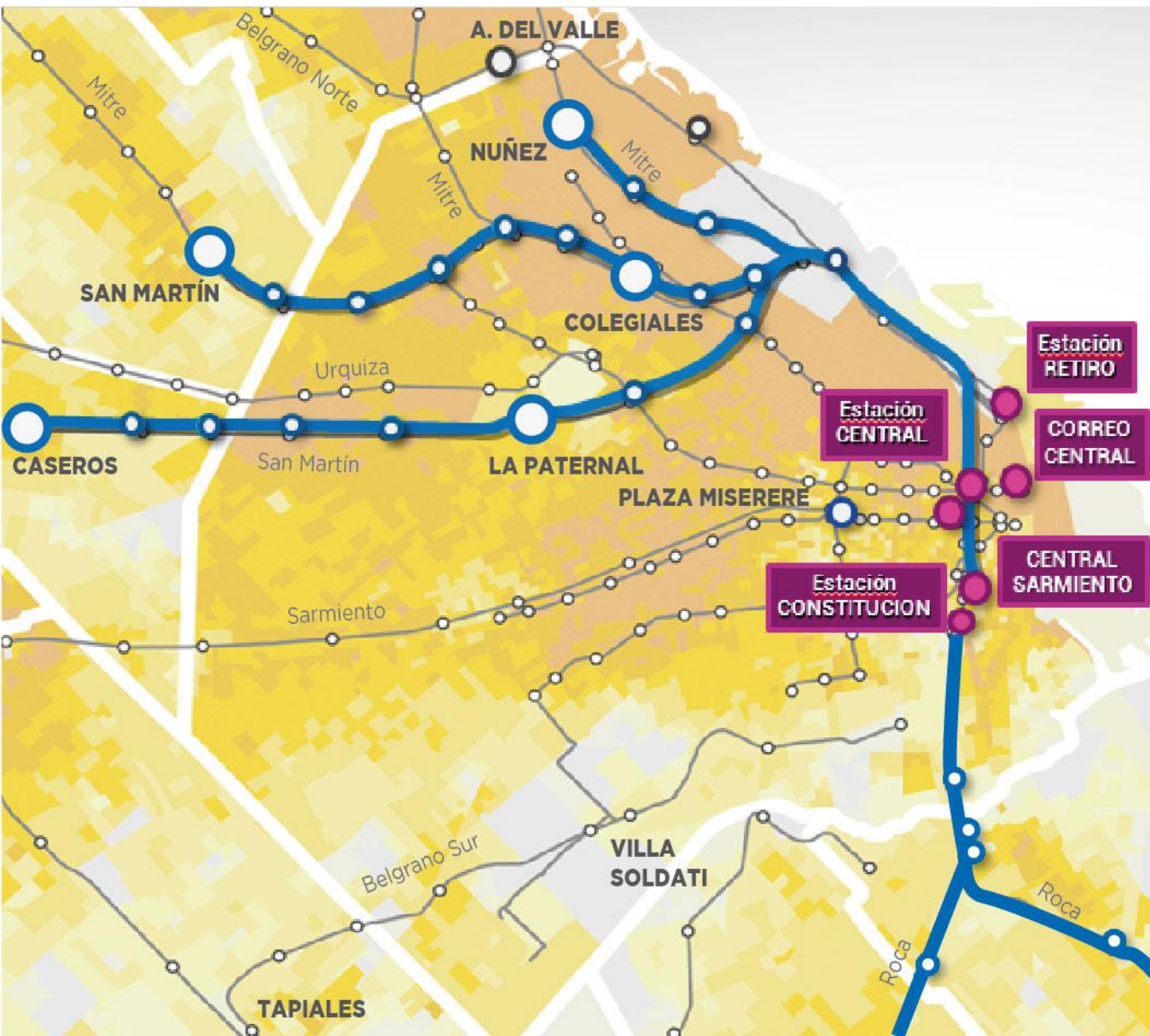


**440.000** Daily passengers  
**33%** Travel time reduction  
Length **70 km**



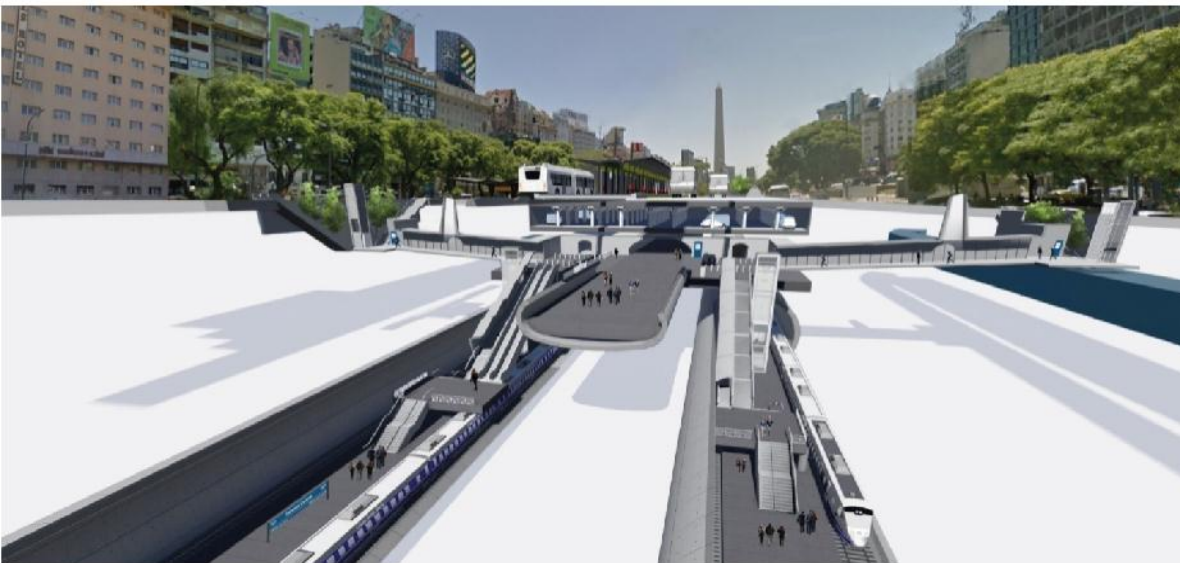
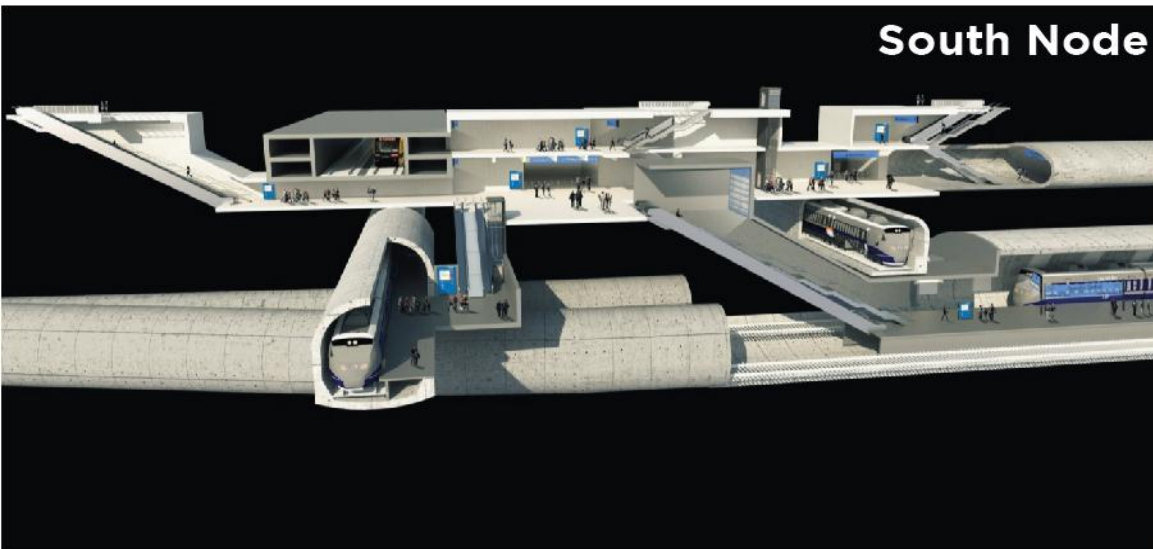
# STAGE 1

## ROCA / SAN MARTIN / MITRE



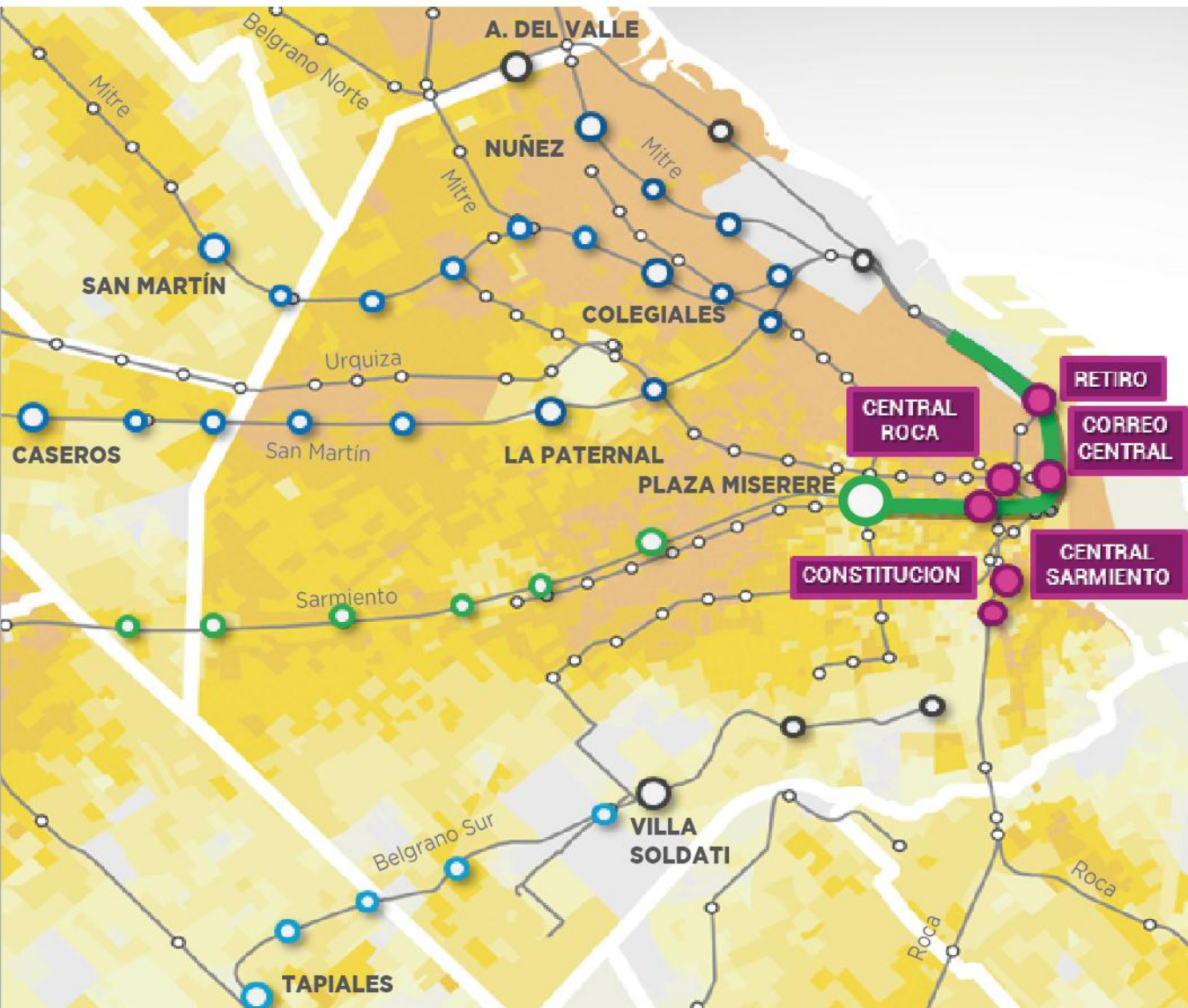
- A** **ROCA until Underground Constitución St.**  
Access + Underground Constitución  
  
**2016 Tender: U\$S 200M**  
**Projection from 2017: U\$S 150M**
  
- B** **ROCA until Caseros St.**  
Link Tunnel Roca + Central St. + Link SAN MARTÍN + SAN MARTÍN Viaduct + Electrification until Caseros  
  
**2016 Tender: U\$S 802M**  
**Projection from 2017: U\$S 315M**
  
- C** **ROCA until San Martín St.**  
Link with Mitre Suarez Branch Line + Electrification until San Martín  
  
**Projection from 2017: U\$S 460M**
  
- D** **ROCA until Nuñez**  
Link with Mitre Tigre Branch Line + Mitre Viaduct + Electrification until Nuñez  
  
**Projeccion from 2017: U\$S 360M**

# CENTRAL STATION



# STAGE 2

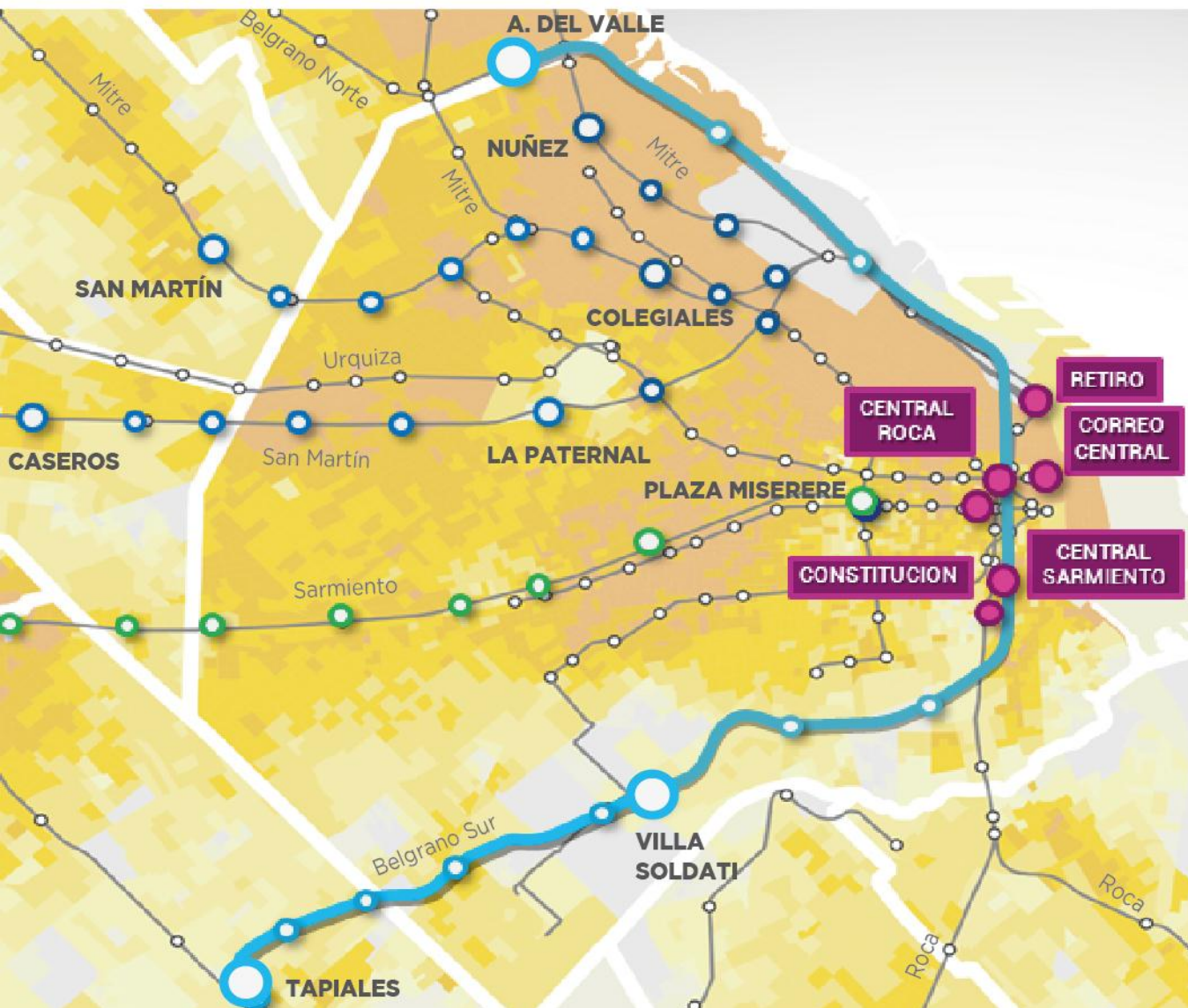
## SARMIENTO / MITRE



- A** **SARMIENTO to Correo Central St.**  
Sarmiento Tunnel + SARMIENTO  
Central St. + Correo Central St.  
  
**Tender 2017 y 2018: U\$S 530 M**
  
- B** **SARMIENTO connection to MITRE**  
Tunnel linking SARMIENTO with MITRE+  
Retiro Underground St.  
  
**Tender 2017: U\$S 760 M**  
**Projection : U\$S 330 M**
  
- C** **SARMIENTO Undergrounding**  
49 Low Level Crossings Elimination  
  
**Projection U\$S 3.800M**

# STAGE 3

## BELGRANO NORTH AND SOUTH



- A BELGRANO SOUTH / BELGRANO NORTH**  
BELGRANO South Viaduct + BELGRANO Tunnel + BELGRANO Electrification (Villa Soldati- Aristóbulo del Valle).

**Projection: U\$S 330M**

- B BELGRANO SOUTH to Tapiales**  
Tapiales Electrification - Villa Soldati + Rail way interferences elimination

**Projection: U\$S 470M**

# BUENOS AIRES VIADUCTS



**MITRE TIGRE | U\$S 150 M**  
21 months - September 2019  
Tender process: 3rd quarter 2016



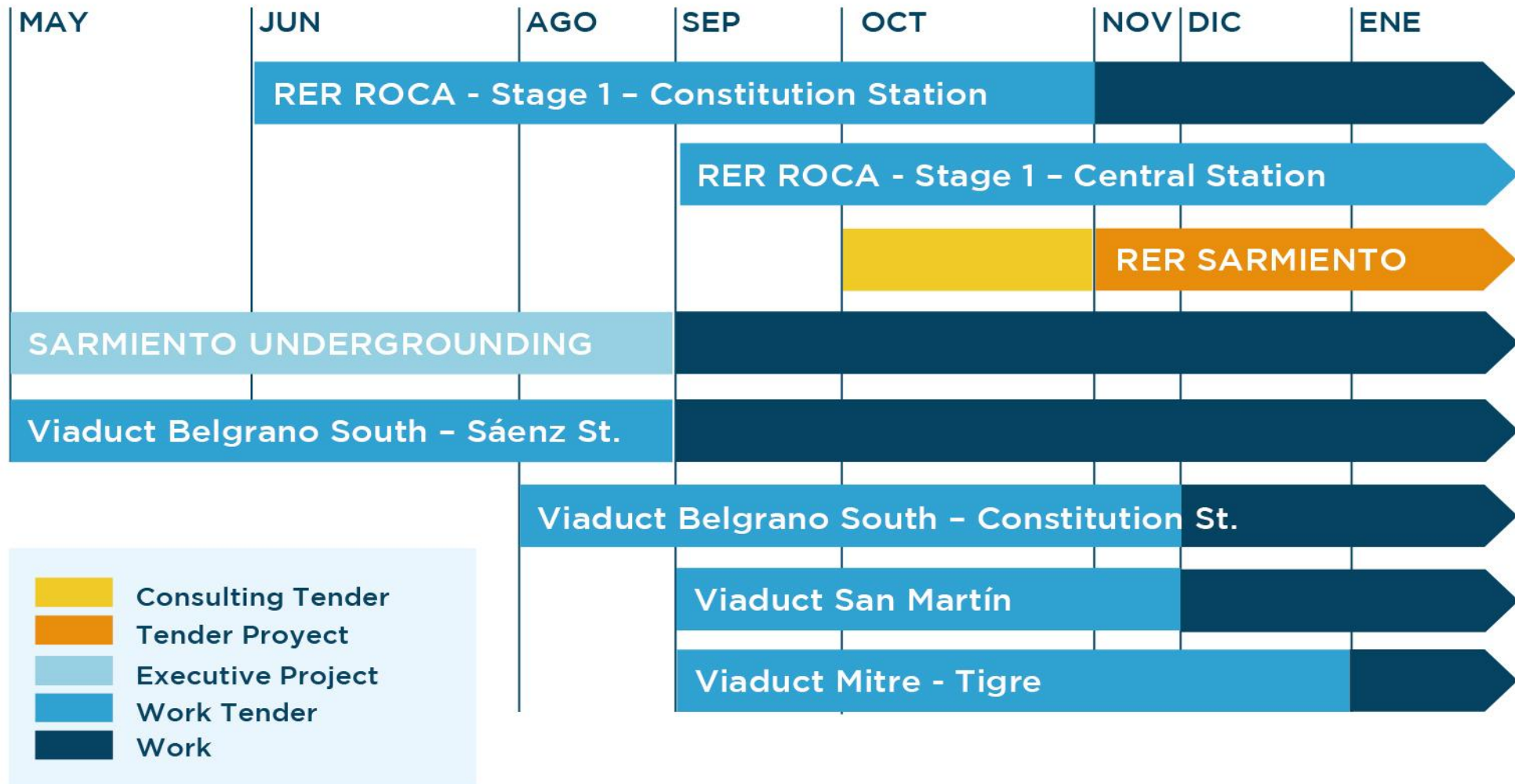
**SAN MARTÍN | U\$S 200 M**  
28 months - July 2019  
Tender process:  
3rd quarter 2016

**BELGRANO SUR | U\$S 150 M**  
28 months - October 2018  
#1 Stage: Tender in process (Saenz Station)  
#2: 3rd quarter 2016 (to Constitución)

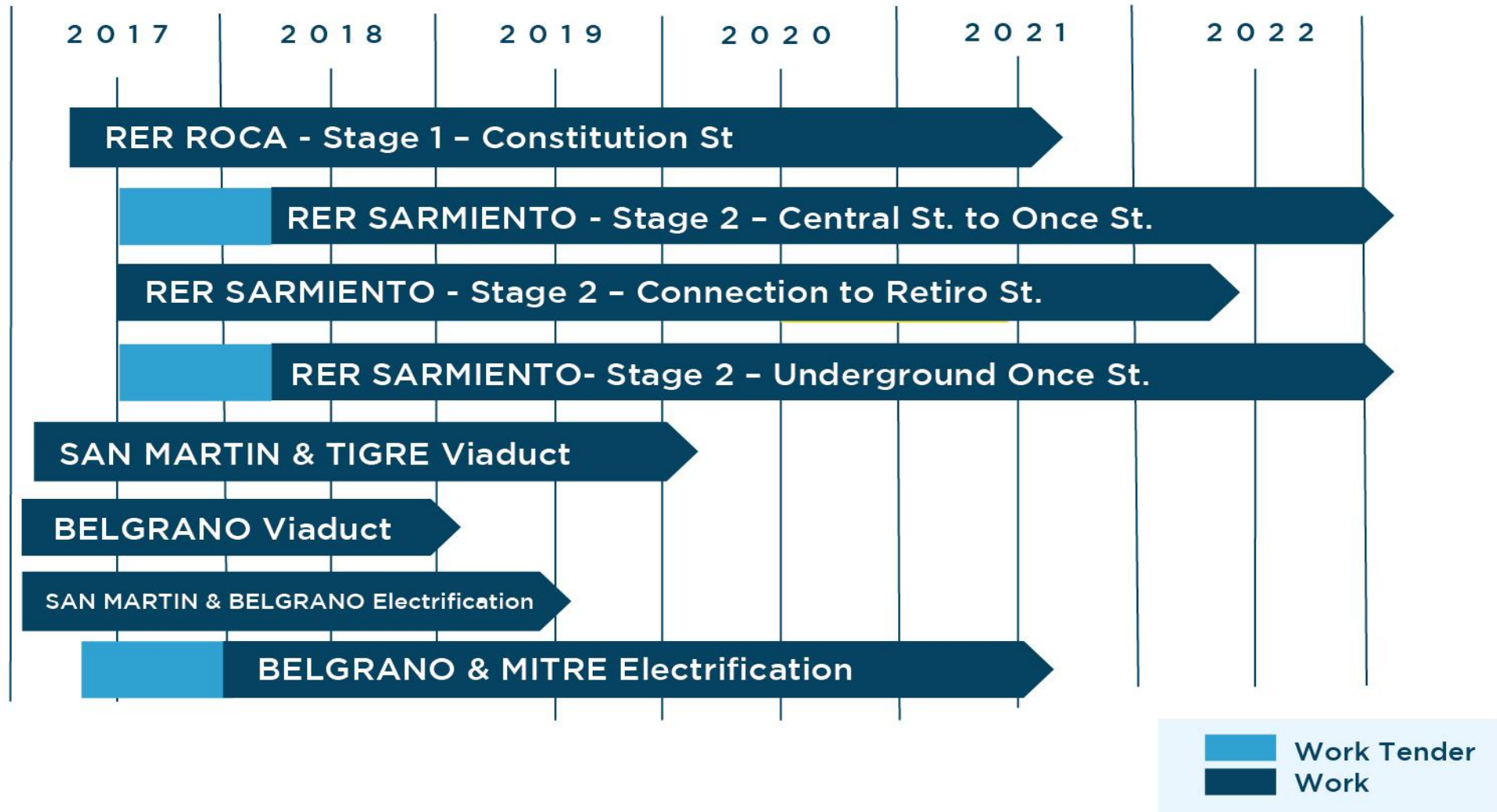
TOTAL INVESTMENT  
**U\$S 500**



# WORK EXECUTION SCHEDULE 2016



# WORK EXECUTION SCHEDULE 2017 - 2022



# FREIGHT RAILWAYS

Freight

Today

- Only 5% of the total freight is transported by train
- 18 M tons per year
- 12-15 km/h average speed

2016-2019

**2,600 M U\$S**

**3,600 km** of recovered railways

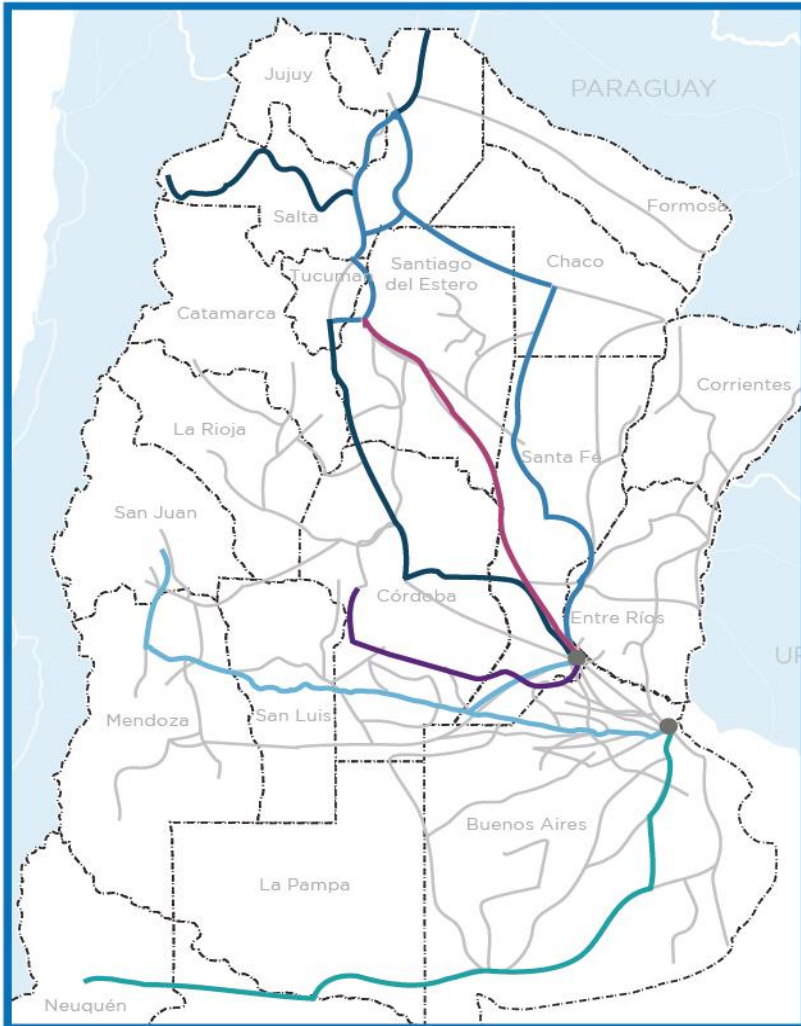
**30 M** tons



# INVESTMENT POSSIBILITIES

## FREIGHT NETWORK PROJECTS

Freight



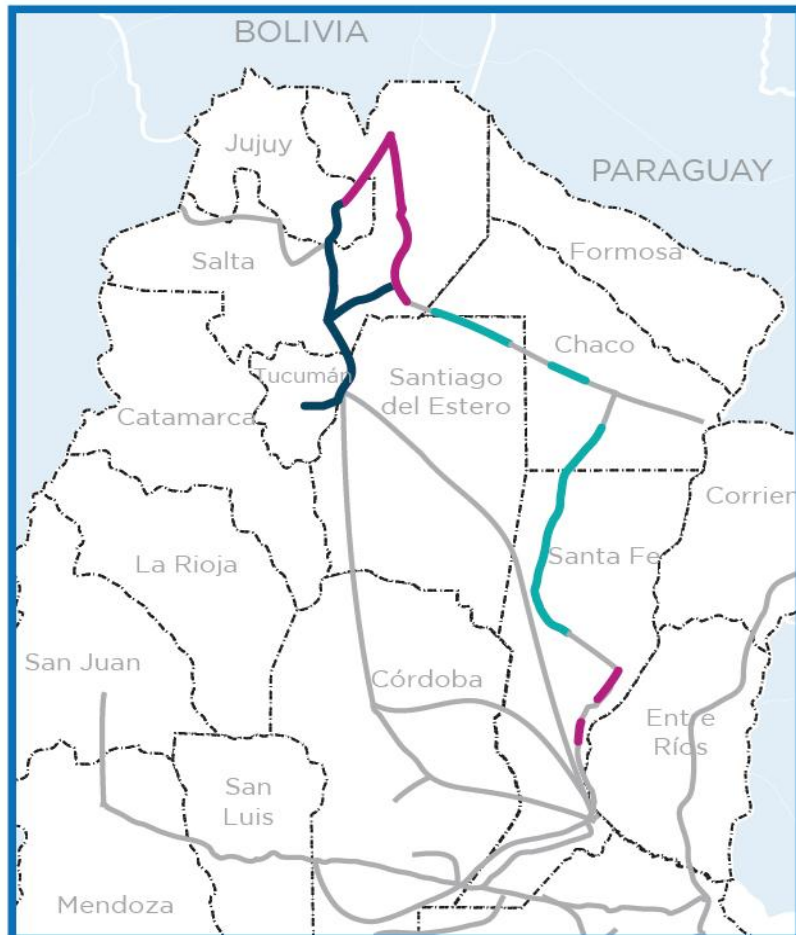
Mitre, Urquiza and Sarmiento lines, projects under evaluation

TERMS	KMS	CORRIDOR	PROVINCES
<b>Belgrano Railway Line</b>			
2016-2019	1,500	Rosario - Pichanal - Tucumán - Joaquín V. Gonzalez	Santa Fe - Chaco S. del Estero - Salta Jujuy - Tucumán
To be defined	1,500	Rosario - Tucumán	Santa Fe - Córdoba S. del Estero - Tucumán
<b>Mitre Railway Line</b>			
2016-2019	400	Rosario - Córdoba	Santa Fe - Córdoba
To be defined	900	Rosario - Tucumán	Santa Fe - S. del Estero Tucumán
<b>San Martín Railway Line</b>			
To be defined	1,400	Rosario - Mendoza Buenos Aires - Mendoza Mendoza - San Juan	Buenos Aires - Santa Fe Córdoba - San Luis Mendoza - San Juan
<b>Roca Railway Line</b>			
To be defined	1,400	Vaca Muerta Logistic Project	Neuquén - Buenos Aires Río Negro - La Pampa

# NOA (ARGENTINE'S NORTH WEST) NETWORK REPLACEMENT 2016-2019 PLAN OF WORKS IN STAGES

Freight

## Reach



## Objective

Renewal of lines to connect the NOA with the ports of Santa Fe and Rosario.

**Investment: 1,663 M U\$S**

**Length: 1,555 km**

**Completion Term: 40 months**

**ON-GOING**

<b>STAGE 1</b>	<b>535 km</b>	Tender launched	Santa Fe   Chaco Santiago del Estero	<b>U\$S 572 M</b>
<b>STAGE 2</b>	<b>445 km</b>	Tender August 2017	Santa Fe   Salta Jujuy	<b>U\$S 476 M</b>
<b>STAGE 3</b>	<b>575 km</b>	Tender April 2017	Tucumán   Salta   Jujuy	<b>U\$S 615 M</b>

**Financing: CDB- CMEC**

# PLAN OF WORKS 2016-2019

Freight

## 6 provinces

Chaco | Salta | Jujuy  
Santiago del Estero |  
Santa Fe |  
Tucumán

11 M

inhabitants along  
the railway line

+ 6,000

Direct jobs  
+ 15.000 indirect jobs

1,555 Km  
railroad

US\$ 2,463 M

Chinese funding  
(CDB-CMEC)

Railroad investment

U\$S 1,663 M

RAILWAY WORKS

U\$1,153

SUPPLIES U\$S 510  
(rails, sleepers, fasteners)

Contract Goods  
investment

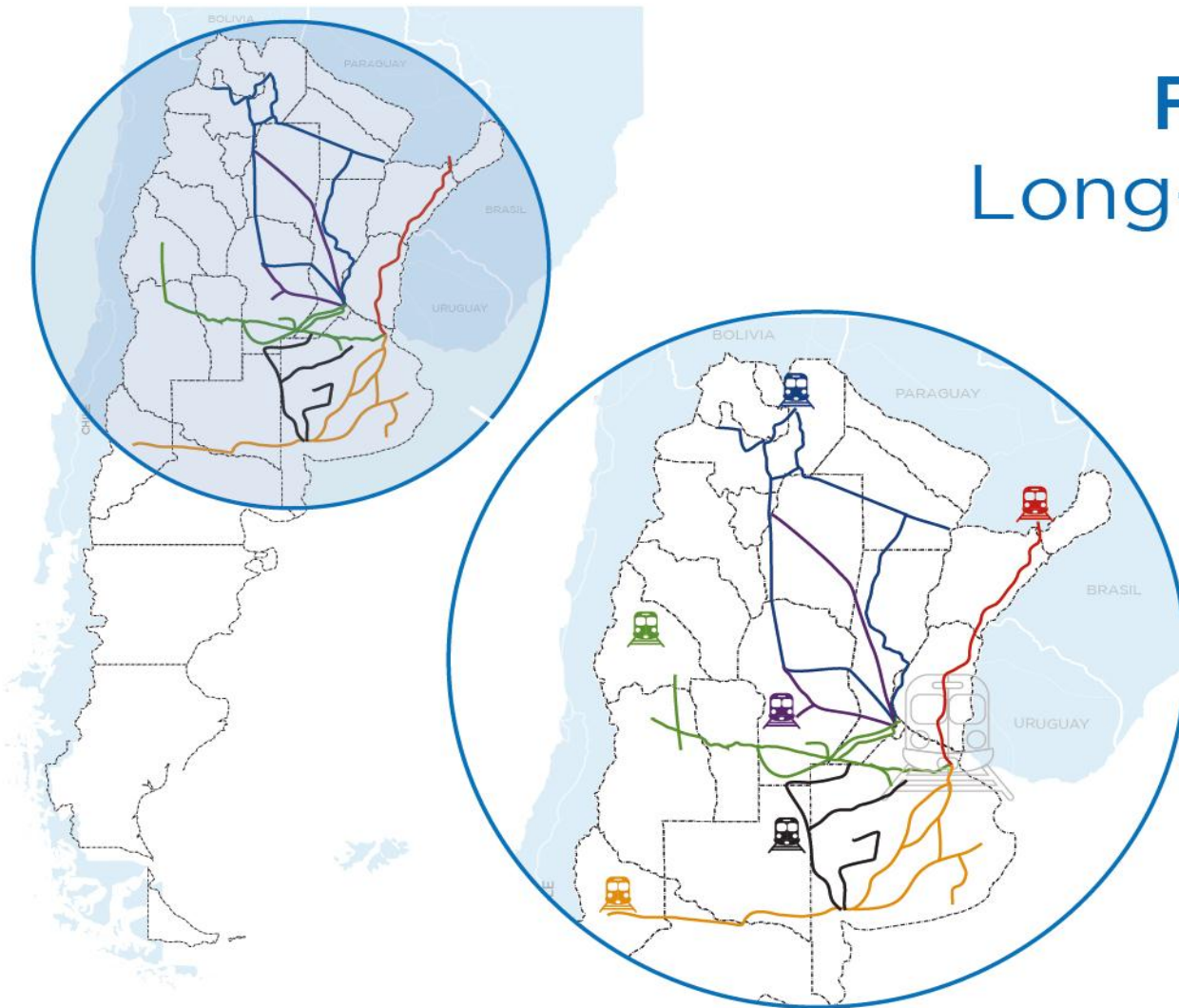
U\$S 800 M

- > Locomotives: 107
- > Wagons: 3500
- > Spare parts: 2000
- > Maintenance machinery
- > Tools for workshops
- > Containers

# FREIGHT RAILWAYS

## Long-term plan for 2035

Freight



**Public-private partnerships**  
Promoting collaboration and investment

**Completely recovered network**

**15,000 M U\$S**

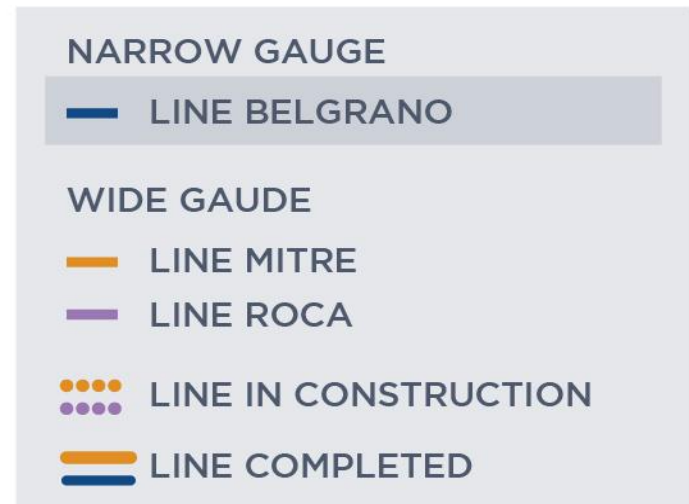
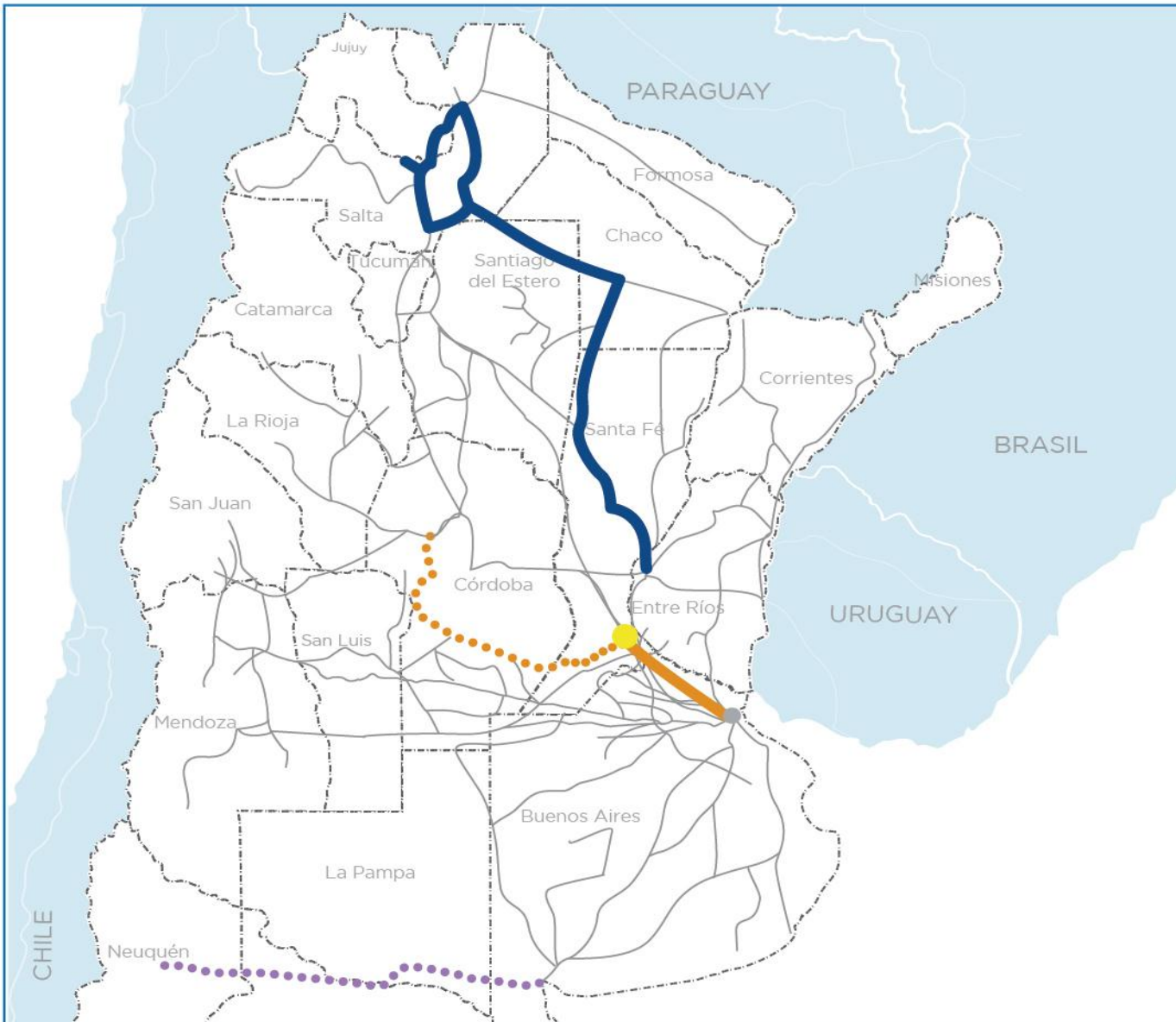
**80-100 M tons**

**20,000 km** of recovered railways



# EVOLUTION OF THE INVESTMENT PROGRAM

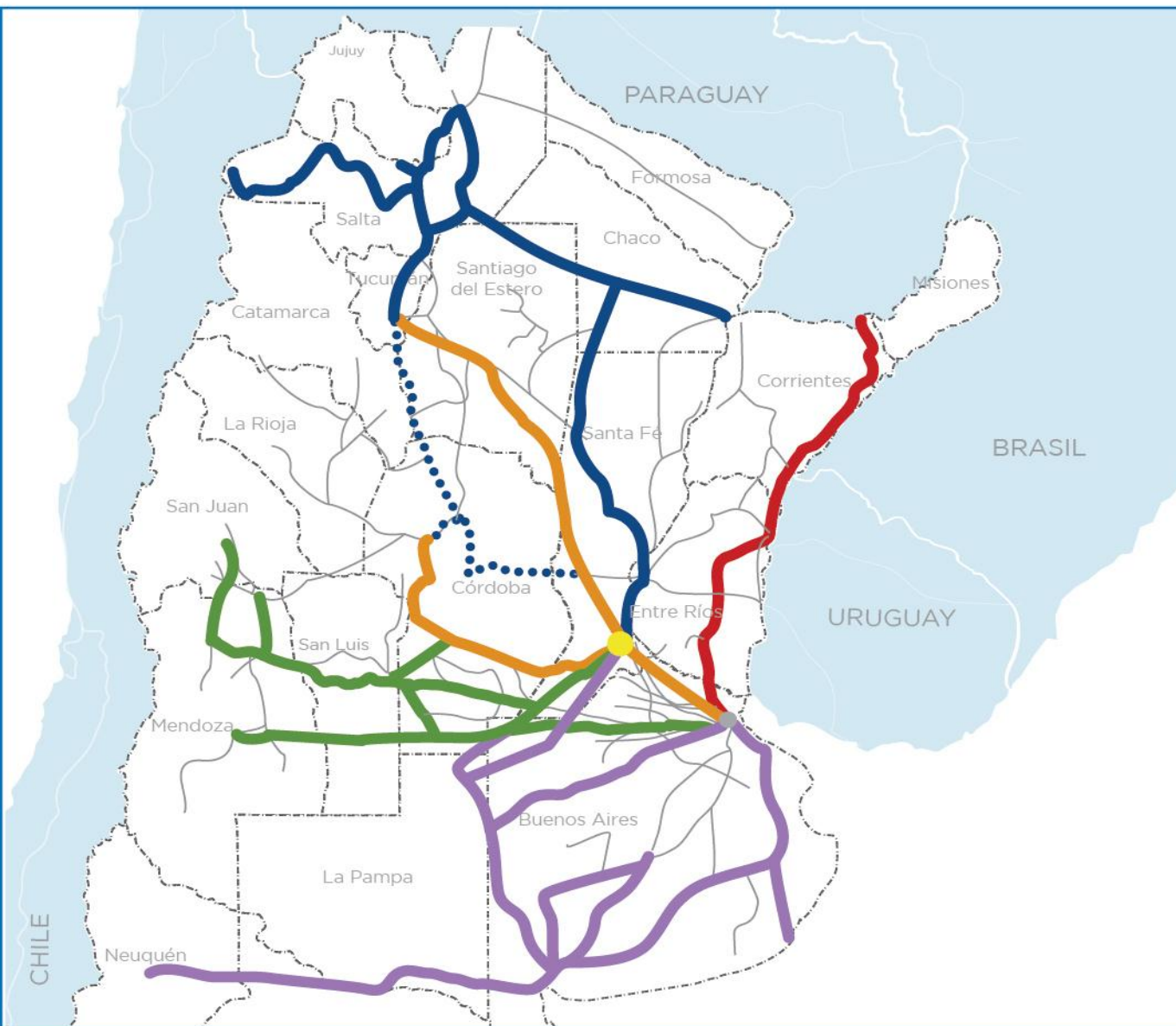
## CURRENT SITUATION 2019



PERIOD	2016 - 2019
<b>Investment US\$ M</b>	<b>2,600</b>
Investment: recovered railways and others works	
KM RECOVERED	
Core network	1.711
Secondary network	564
Lightweight improvement	1.385
<b>TOTAL</b>	<b>3.660</b>

# EVOLUTION OF THE INVESTMENT PROGRAM

## CURRENT SITUATION 2035



PERIOD	2032 - 2035
<b>Investment US\$ M</b>	<b>2.782</b>
KM RECOVERED	
<b>Core network</b>	<b>488</b>
<b>Secondary network</b>	<b>4.987</b>
<b>Lightweight improvement</b>	<b>-</b>
<b>TOTAL</b>	<b>5.475</b>

# WHAT DO WE NEED FROM COMPANIES?

We invite companies in the international railway sector to participate in the project through the following interventions:

Freight



## CONSTRUCTION COMPANIES



## EQUIPMENT PROVIDERS

- Railway equipment/mechanized railway equipment: ballast train, tamper liner machine, leveler machine, profile machine and stabilizer, assembling and disassembling of rails and rails welding.



## ENGINEERING COMPANIES

- Geotechnical, hydraulic and other studies.
- Basic Engineering
- Detail/design engineering
- Work support



## FISCALIZATION COMPANIES

- Control of executive project
- Fiscalization of works execution
- Provisional and final work reception

# AIR SECTOR

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# AIR MARKET

## 2016-2019

Control tower at Aeroparque today



New control tower at Aeroparque



- Doubling the number of domestic passengers.
- Enhanced domestic and international connectivity.
- More routes and frequencies.



# INVESTMENT IN AIRPORTS

## 2016-2019



**900 M USD**

4 time the investment of  
the previous 3 years

17 airports

22 million of domestic users



Ezeiza International Airport today



New passenger terminal at Ezeiza



- More safety and security
- Better travel experience

# AIR TRAFFIC SERVICE (ATS)

2016 – 2019

## 122 M USD

4 times the investment of  
the previous 3 years

Increase Safety

Increase user's savings

Reduce CO2 consumption

### Investment:

- In communication: 28 M USD
- In navigation: 51.5 M USD
- In air traffic service: 12 M USD
- In surveillance: 23.5 M USD
- In low visibility procedures: 4 M USD



# PORTS

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# PORTS MODERNIZATION

## Port of Buenos Aires



- The most important container terminals of Argentina can handle in total 1.5 million TEUs.
- Investment in the layout of the terminals in order to increase capacity and receive new generations ships (Post-Panamax).
- Current concessions expire in 2019 and we expect the tender process to be launched during 2017.
- Investments are estimated in around 1,500/2,000 M USD -including access infrastructure in order to increase capacity of the port.

# PORTS MODERNIZATION

Investment 2016-2019

## PUBLIC WORKS IN PORTS

(scheduled for 2016)

New Itá Ibaté port: **18 M USD**

Puerto Madryn: **35 M USD**

Ushuaia: **18 M USD**

Comodoro Rivadavia: **4 M USD**

Concepción del Uruguay: **1 M USD**

TOTAL INVESTMENT  
**425 M USD**

## SAFETY WORKS

### Waterway

Crossing areas Río de la Plata: **20 M USD**

Redock repairs and capacity expansion;  
new terminal in Itá Ibaté.

Risk reduction of accidents, stranding  
and delays in the waterway.



# URBAN MOBILITY

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# BUS RAPID TRANSIT

metr**ibus** network

BUSES

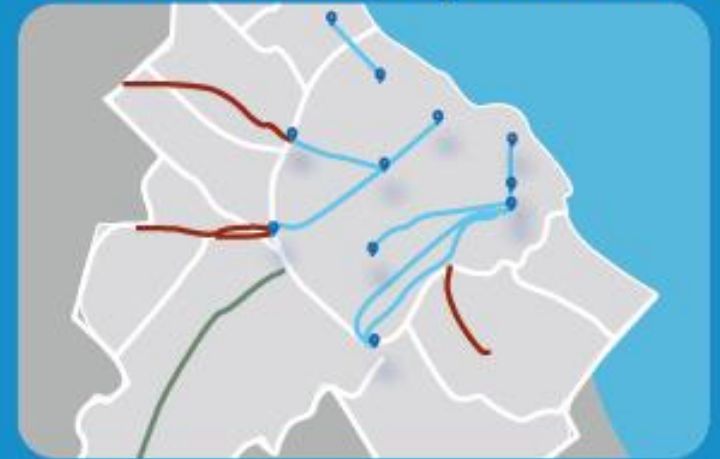


TOTAL INVESTMENT  
**335 M USD**



9 de Julio

## Buenos Aires Metropolitan Area



### Operating

Juan B. Justo  
9 de Julio  
Sur

Norte  
25 de Mayo  
San Martín



### Under construction

La Matanza



### Projected

Lanús  
Tres de Febrero  
Morón

# SUSTAINABLE URBAN TRANSPORT

Interventions throughout the country



TOTAL INVESTMENT  
**20 M USD**  
for 2016

CITY	BIKE LANES	PUBLIC TRANSPORT	PEDESTRIANS	OTHER INTERVENTION
JUNÍN		●	●	
BARILOCHE	●			
CÓRDOBA	●	●		●
CORRIENTES	●	●		
NEUQUÉN	●	●		●
MENDOZA	●			
SALTA				●
ROSARIO		●		
JUJUY	●	●	●	●
AVELLANEDA (SF)	●			●
A.M.B.A.	●	●	●	●
CATAMARCA	●	●	●	
USHUAIA				●
MAR DEL PLATA				●
MARCOS JUAREZ	●		●	●
TUCUMÁN - YERBA BUENA				●
PARANÁ				●
SANTA FE	●	●		●
ESQUEL	●	●		●
LA RIOJA		●		
RAFAELA				●
ARECO	●			●
POSADAS	●	●		
SAN JERONIMO SAN CARLOS SUD				●
SAN LUIS	●		●	
RÍO CUARTO	●	●		
BARRANQUERAS		●		

# IMPROVING ROADS FOR PUBLIC TRANSIT

BUSES

## Buenos Aires Metropolitan Area

National Road n°1



José C. Paz – Unpaved road for public transport



**INVESTMENT: 134 M USD**

- Road paving, sidewalks, hydraulic, more lighting, traffic lights.
- New shelters for public transport.

# INVESTMENT PLAN

2016-2019

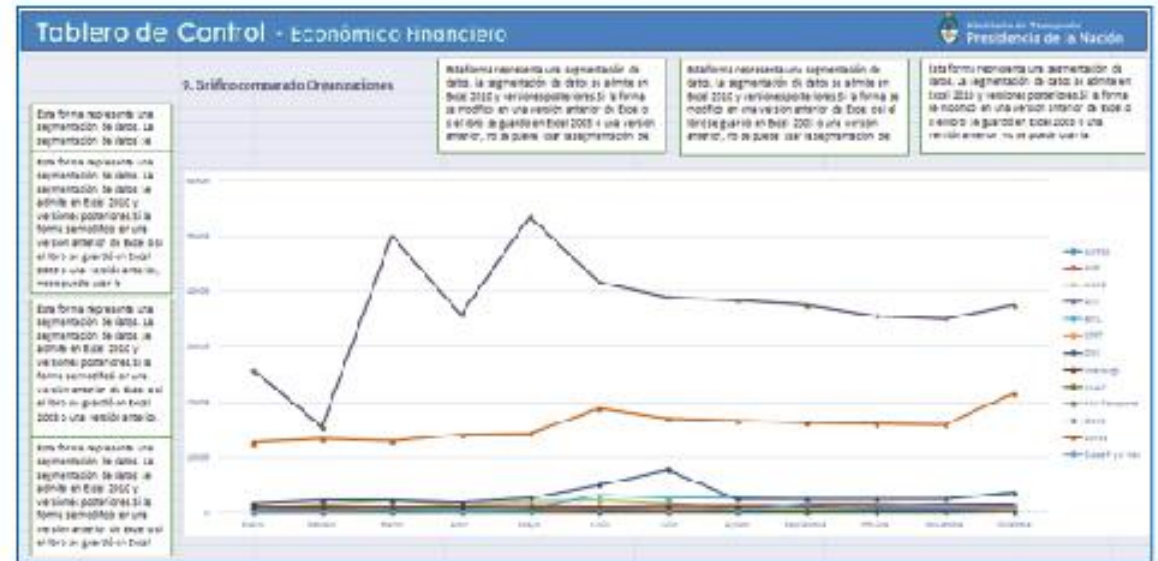
## 33,225 M USD

Public investment (millions USD)					Private investment 2016-2019 (projected)	Total	
	2016	2017	2018	2019			
Airports	200	245	240	225	350	1,260	
Freight railways	300	700	800	800		2,600	
Urban rails	1,400	3,000	3,200	2,700		10,300	
Urban mobility	165	310	240	225		940	
Road	2,800	3,400	3,100	3,200		5,000	17,500
Ports	70	125	115	115			200
<b>Total</b>	<b>5,135</b>	<b>9,380</b>	<b>9,095</b>	<b>6,565</b>		<b>5,550</b>	<b>33,225</b>

# A NEW MANAGEMENT MODEL

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# RESULT ORIENTED MANAGEMENT SYSTEM



- Multiannual budget
- Short-term and long-term targets (KPIs) for all the areas, companies and decentralized agencies.
- Model and standardized report agenda.
- Monthly follow-up meetings with the heads of fifteen decentralized agencies and companies.
- Monthly financial and human resources follow-up.
- Ongoing follow-up on the status of public works and projects.
- Merged and comparative analysis on the agencies' information.

# TRANSPARENCY POLICY

- Free access to information and tender documents.
- Higher participation of small and medium companies.
- Incentives to innovation for construction and technology.
- Requirements and conditions more flexible.
- Participation of companies from others sectors.
- Major control of contractors.
- International participation in equal conditions.

# TENDERS

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# ROADS

105 future tenders: 7847 M USD

Contacto: Javier Iguacel (President, DNV) [jiguacel@vialidad.gov.ar](mailto:jiguacel@vialidad.gov.ar)

Category	Description	Province	Budget (Million U\$)	Tender
Roadway duplication	AU 3 Madryn - Trelew	Chubut	19,6	June 2016
Repaving	AU 3 Madryn - Trelew	Chubut	14,6	June 2016
Roadway duplication	AU 3 Madryn - Trelew	Chubut	21,6	June 2016
Roadway duplication	AU 7 Carmen de Areco - Chacabuco	Buenos Aires	149,3	June 2016
Roadway duplication	AU 19 S. Fco - Córdoba	Córdoba	102,4	June 2016
Roadway duplication	AU 19 S. Fco - Córdoba	Córdoba	160,9	June 2016
Roadway duplication	AU 19 S. Fco - Córdoba	Córdoba	152,2	June 2016
Roadway duplication	AU 19 S. Fco - Córdoba	Córdoba	105,3	June 2016
Roadway duplication	AU 40 Mendoza - San Juan	Mendoza	19,4	June 2016
Roadway duplication	AU 40 Mendoza - San Juan	San Juan	83,1	June 2016
Road Concessions	Concessions of 12 corredors	Several	To be defined	August 2016
Roadway duplication	AU 9 Acceso Norte Tucumán	Tucumán	166,2	July 2016
Repaving	Repav RN 152	La Pampa	30,5	August 2016
New road	AU 11 Variante Resistencia	Chaco	59,7	August 2016
Roadway duplication	AU 9 Córdoba - V. Totoral	Córdoba	126,6	August 2016
Roadway duplication	AU 34 Jujuy - San Pedro	Jujuy	94,2	August 2016
Repaving	Pav RN 40 Barrancas - Malargüe (Sec. 1 y 2)	Mendoza	27,1	August 2016
Roadway duplication	AU 3 Bypass S. M. del Monte	Buenos Aires	47,4	Septembre 2016
Specific works	AU 3 Circunv. Comodoro (Etapa 1)	Chubut	37,3	Septembre 2016
Roadway duplication	AU 33 Circunv. Bahía Blanca	Buenos Aires	24,3	Septembre 2016
Specific works	Cno. Costa Azul y Puente s/San Roque	Córdoba	93,3	Septembre 2016

# ROADS

105 future tenders: 7847 M USD

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Category	Description	Province	Budget (Million U\$)	Tender
Roadway duplication	AU 12 Acceso Sur Paraná	Misiones	9,3	October 2016
Roadway duplication	AU 3 Dorrego - Bahía Blanca	Buenos Aires	179,7	October 2016
Specific works	Puente Santo Tomé - Santa Fe	Santa Fe	140	October 2016
Roadway duplication	AU 33 Rufino - Venado	Santa Fe	0	October 2016
Repaving	Pav RP 40 Corrientes	Corrientes	22,5	October 2016
Safe road	AU 158 Villa María - Río Cuarto (Etapa 1)	Córdoba	79,7	November 2016
Roadway duplication	AU 9 Acceso Sur Tucumán	Tucumán	12,1	December 2016
Roadway duplication	AU 9/34 Ros. Frontera - Jujuy	Salta	70,4	December 2016
Specific works	AU 9/34 Ros. Frontera - Jujuy	Salta	93,3	December 2016
Roadway duplication	AU 9/34 Ros. Frontera - Jujuy	Salta	41	December 2016
Roadway duplication	Circunvalación RN A012	Santa Fe	74,7	January 2017
Roadway duplication	Accesos a Puertos de Rosario Norte	Santa Fe	26,7	March 2017
Roadway duplication	AU 3 Travesía por Bahía Blanca	Buenos Aires	45,5	April 2017
Roadway duplication	Circunvalación RN A012	Santa Fe	111,8	April 2017
Roadway duplication	AU 3 Travesía por Bahía Blanca	Buenos Aires	66,7	May 2017
Specific works	Accesos a Puertos de Rosario Norte	Santa Fe	28	May 2017
Specific works	AU 252 Accesos a Puertos BB	Buenos Aires	84	June 2017
Roadway duplication	AU 3 Monte - Las Flores	Buenos Aires	92,6	June 2017
Roadway duplication	AU 3 Monte - Las Flores	Buenos Aires	60,4	July 2017
Roadway duplication	Makallé - La Escondida	Chaco	32	July 2017
Roadway duplication	La Escondida - Presidencia de la Plaza	Chaco	83,6	July 2017

# ROADS

105 future tenders: 7847 M USD

Contacto: Javier Iguacel (President, DNV) [jiguacel@vialidad.gov.ar](mailto:jiguacel@vialidad.gov.ar)

Category	Description	Province	Budget (Million U\$)	Tender
Roadway duplication	Presidencia de la Plaza - Sáenz Peña	Chaco	129,3	July 2017
Safe road	Cobertizos, Guido y Uspallata	Mendoza	115	July 2017
Safe road	Cobertizos, Soberanía	Mendoza	150	July 2017
Safe road	AU 11 Santa Fe - San Justo (Etapa 1)	Santa Fe	60	July 2017
Safe road	RS 237 Collón Curá - V. La Angostura	Neuquén	61,6	July 2017
Roadway duplication	AU 22 Travesía Cipolletti y 4to puente	Río Negro	93,3	August 2017
Roadway duplication	AU 33 Venado - Firmat	Santa Fe	150,4	August 2017
New road	AU 12 Variante Corrientes	Corrientes	47,8	September 2017
Roadway duplication	AU 3 Las Flores - Azul	Buenos Aires	102,7	October 2017
Roadway duplication	AU 3 Las Flores - Azul	Buenos Aires	131	October 2017
Roadway duplication	AU 3 Circunv. Comodoro (Etapa 1)	Santa Cruz	93,3	October 2017
Roadway duplication	AU 5 Chivilcoy - Bragado	Buenos Aires	109,4	October 2017
Roadway duplication	AU 5 Anguil - Santa Rosa	La Pampa	72	October 2017
Roadway duplication	AU 34 San Genaro - RN 19	Santa Fe	241,6	October 2017
Roadway duplication	AU 34 Taboada - La Banda (SE)	Santiago del Estero	169,2	October 2017
Roadway duplication	AU 25 Cañuelas - Lobos	Buenos Aires	86	October 2017
Roadway duplication	AU 5 Suipacha - Chivilcoy	Buenos Aires	58	October 2017
Roadway duplication	AU 12 Corrientes - Paso de la Patria	Corrientes	68	October 2017
Roadway duplication	AU 33 Firmat - Rosario	Santa Fe	155	November 2017
Roadway duplication	AU 33 Firmat - Rosario	Santa Fe	164,6	November 2017
Repaving	Pav RN 40 Barrancas - Malargüe (Sec. 1 y 2)	Mendoza	64,4	November 2017

# ROADS

105 future tenders: 7847 M USD

Contacto: Javier Iguacel (President, DNV) [jiguacel@vialidad.gov.ar](mailto:jiguacel@vialidad.gov.ar)

Category	Description	Province	Budget (Million U\$)	Tender
Safe road	RS 34 Sunchales - Taboada (SE)	Santa Fe - Santiago del Estero	36	December 2017
Safe road	RS 34 Sunchales - Taboada (SE)	Santa Fe - Santiago del Estero	85	December 2017
Safe road	RS 34 La Banda (SE) - Ros. Frontera	Santiago del Estero - Salta	53	December 2017
Safe road	RS 34 La Banda (SE) - Ros. Frontera	Santiago del Estero - Salta	20	December 2017
Safe road	RS 123 Corrientes - RN 14	Corrientes	15	December 2017
Safe road	Repav RN 127 Paraná - RN 14	Entre Ríos - Corrientes	35	December 2017
New road	RN 8 Bypass Venado Tuerto*	Santa Fe	40	December 2017
Safe road	RS 11 San Justo - Resistencia	Santa Fe	69,8	December 2017
Safe road	RS 11 San Justo - Resistencia	Santa Fe	46	December 2017
Safe road	RS 11 San Justo - Resistencia	Chaco	15,9	December 2017
Safe road	AU 14 Paso de los Libres - Posadas	Corrientes	55,6	December 2017
Safe road	AU 14 Paso de los Libres - Posadas	Corrientes - Misiones	36,2	December 2017
Roadway duplication	AU RN A05 Circunv. Ría Cuarto	Córdoba	51,6	January 2018
Roadway duplication	AU 7 Variante Palmira	Mendoza	104,6	July 2018
Safe road	RS 34 San Pedro - Pichanal	Jujuy	65,8	July 2018
Safe road	RS 34 San Pedro - Pichanal	Jujuy	56	July 2018
Safe road	RS 34 San Pedro - Pichanal	Salta	60,2	July 2018
Safe road	RS 35 Int. RN 188 - Int. RN 7	Córdoba	35	July 2018
Specific works	Puente Paraná - Santa Fe	Santa Fe - Entre Ríos	653,3	July 2018
Safe road	RS 174 Rosario - Victoria	Entre Ríos	16,2	July 2018
Safe road	RS 188 Pergamino - Junín	Buenos Aires	23,2	July 2018

# ROADS

105 future tenders: 7847 M USD

Contacto: Javier Iguacel (President, DNV) [jiguacel@vialidad.gov.ar](mailto:jiguacel@vialidad.gov.ar)

Category	Description	Province	Budget (Million U\$)	Tender
Specific works	Segundo Puente Resistencia - Corrientes	Chacho - Corrientes	560	Diciembre 2018
Safe road	RS 3 Azul - Dorrego	Buenos Aires	52,1	2018
Safe road	RS 3 Azul - Dorrego	Buenos Aires	31,7	2018
Safe road	RS 5 Carlos Casares - Anguil	Buenos Aires	57,7	2018
Safe road	RS 5 Carlos Casares - Anguil	La Pampa	14,8	2018
Safe road	AU 8 Holmberg - V. Mercedes	Córdoba	21	2018
Safe road	AU 8 Holmberg - V. Mercedes	San Luis	8,4	2018
Safe road	RS Tucumán - Ros. Frontera	Tucumán	15,4	2018
Safe road	RS Tucumán - Ros. Frontera	Salta	16,8	2018
Safe road	Ruta Segura Caucete - Int. RN 141	San Juan	8,5	2018
Safe road	RS 22 Bahía Blanca - Chichinales	Buenos Aires	20,4	2018
Safe road	RS 22 Bahía Blanca - Chichinales	La Pampa	17,4	2018
Safe road	RS 22 Bahía Blanca - Chichinales	Río Negro	9	2018
Safe road	RS 22 Bahía Blanca - Chichinales	Río Negro	3,1	2018
Safe road	RS 22 Bahía Blanca - Chichinales	Río Negro	33	2018
Safe road	RS 12 Corrientes - Int. RN 123	Corrientes	48,9	2018
Safe road	Pergamino - Rosario	Buenos Aires	11,5	2018
Safe road	Pergamino - Rosario	Santa Fe	18,8	2018
Safe road	RS 33 Pigüé - Rufino	Buenos Aires	51,8	2018
Safe road	RS 33 Pigüé - Rufino	Buenos Aires	33,6	2018
Safe road	RS 33 Pigüé - Rufino	Buenos Aires	28	2018

**Total**

**7847**

# RAILWAYS

## 32 future tenders 1267 M USD

Contacto: Guillermo Fiad (President, ADIF) [gfiad@adifse.gov.ar](mailto:gfiad@adifse.gov.ar)

Category	Description	Province	Budget (Million USD)	Tender
TRACKS	Belgrano Cargas C12 Total Track Renewal Km 1264,960 - Km 1332,500	Santiago del Estero	56	april 2016
TRACKS	Belgrano Cargas C6 Total Track Renewal Km 338 a Km 492	Santa Fe	102	april 2016
SIGNAL & TELECOM	Roca New Signalling BZ-LP	Metropolitan Area Buenos Aires	7	june 2016
SIGNAL & TELECOM	ATS Equipment purchase - Metropolitan Area of Buenos Aires	Metropolitan Area Buenos Aires	108	june 2016
TRACKS	Belgrano Cargas C12 Total Track Renewal Km 1411,000 a Km 1436,500	Chaco	20	June 2016
SIGNAL & TELECOM	Mitre New Signalling Victoria-Capilla del Señor y Suárez-Zárate	Metropolitan Area Buenos Aires	88	july 2016
CIVIL WORKS	Belgrano Cargas New Bridges F1 Belgrano Line	Santa Fe	12	july 2016
TRACKS	San Martín line - mechanized track, stage I y II	Metropolitan Area Buenos Aires	33	july 2016
TRACKS	Belgrano Cargas C18 and C22 Total Track Renewal - Km 1290,400 - Km 1082,200 and km 1082,200 - km 1138,900	Salta	183	august 2016
SIGNAL & TELECOM	Sarmiento - New Signalling for lines: Merlo-Lobos and Moreno-Mercedes	Metropolitan Area Buenos Aires	78	August 2016
CIVIL WORKS	Belgrano Norte - Platform Improvement	Metropolitan Area Buenos Aires	58	august 2016
TRACKS	San Martín - Various Track Improvement	Mendoza	28	August 2016

# RAILWAYS

## 32 future tenders 1267 M USD

Contacto: Guillermo Fiad (President, ADIF) [gfiad@adifse.gov.ar](mailto:gfiad@adifse.gov.ar)

Category	Description	Province	Budget (Million USD)	Tender
SIGNAL& TELECOM	New Signalling for Roca, San Martin, Urquiza, Belgrano Sur Lines	Metropolitan Area Buenos Aires	22	August 2016
TRACKS	Belgrano Cargas C and F1 Total Track Renewal - Km 83,800 - Km 53,400 and km 9,400 - km 48,311	Santa Fe	112	September 2016
SIGNAL& TELECOM	Control Center for Roca line	Metropolitan Area Buenos Aires	10	September 2016
ELECTRIFICACIÓN	Third Rail Improvement for Mitre line	Metropolitan Area Buenos Aires	8	September 2016
TRACKS	Switches and Crossings provision for Belgrano Cargas	Buenos Aires province	14	September-2016
SIGNAL& TELECOM	On board ATS implementation San Martin, Belgrano and Urquiza lines	Metropolitan Area Buenos Aires	10	October- 2016
SIGNAL& TELECOM	Signalling equipment	Metropolitan Area Buenos Aires	11	December 2016
TRACKS	Track Renewal Branch Maldonado - J. L. Suárez	Metropolitan Area Buenos Aires	2	Feb-17
TRACKS	Railway Grid Retiro - Maldonado. Track Renewal and Signaling	Metropolitan Area Buenos Aires	113	Mar-17
TRACKS	Track Renewal Branch Bosques - V. Elisa	Metropolitan Area Buenos Aires	28	Abr-17
TRACKS	Double Track - Tapiales - Bonzi	Metropolitan Area Buenos Aires	3	Abr-17
TRACKS	Tacks Renewal Branch Constitucion Temperley	Metropolitan Area Buenos Aires	60	Abr-17

# RAILWAYS

## 32 future tenders 1267 M USD

Contacto: Guillermo Fiad (President, ADIF) [gfiad@adifse.gov.ar](mailto:gfiad@adifse.gov.ar)

Category	Description	Province	Budget (Million USD)	Tender
TRACKS	Track Renewal - Branches G y M - Belgrano SUR	Metropolitan Area Buenos Aires	42	May-17
TRACKS	Track expansion Lavallol railway warehouse Gral. Roca Line	Metropolitan Area Buenos Aires	1	May-17
ELECTRIFICATION	Electrification Claypole - Bosques	Metropolitan Area Buenos Aires	10	Jul-17
TRACKS	Track Renewal Branch Sáenz - Tapiales - Ramal "G"Line Belgrano Sur	Metropolitan Area Buenos Aires	9	Ago-17
TRACKS	Railway Crossing LBS / Roca	Metropolitan Area Buenos Aires	19	Oct-17
TRACKS	Track Renewal Branch Sáenz - Tapiales - Ramal "G". Belgrano Sur	Metropolitan Area Buenos Aires	11	Oct-17
Civil Works	Stations Modules Line Belgrano Sur	Metropolitan Area Buenos Aires	7	Nov-17
Civil Works	New Station Ezeiza	Metropolitan Area Buenos Aires	2	Nov-17

**Total**

**1267**

# PORTS

## 4 future tenders: 72 M USD

Contacto: Manuela López Menéndez (Public Transport Secretary) [manlop@transporte.gob.ar](mailto:manlop@transporte.gob.ar)

Category	Description	Province	Budget (million USD)	Tender
Puerto Madryn	Reparation of solid piles ( Alte. Storni pier)	Chubut	35 USD	July 2016
Concepción del Uruguay	Adequacy of pier structure 3-4 and accesses to the port	Entre Rios	1 USD	August 2016
Itá Ibaté	Construction of the new port	Corrientes	18 USD	September 2016

**Total**

**72 USD**

# AIRPORTS

## 43 future tenders: 436.4 M USD

Contacto: Patricio Di Stéfano (President, ORSNA) [pdistefano@orsna.gov.ar](mailto:pdistefano@orsna.gov.ar)

Felisa Blaquier (Comunicaciones, ORSNA) [fblaquier@orsna.gov.ar](mailto:fblaquier@orsna.gov.ar)

Category (by airport)	Description	Province	Budget (Million USD)	Tender
Chapelco	RUNWAY RENOVATIONS AND BEACON SYSTEM	NEUQUEN	11,1	January - July 2016
Comodoro Rivadavia	NEW TERMINAL	CHUBUT	23,3	April - May 2016
Tucumán	EXPANSION OF COMMERCIAL PLATFORM AND SERVICE STREETS	TUCUMÁN	6,2	April - May 2016
Mendoza	MAIN RENOVATIONS AND NEW BEACON SYSTEM ON RUNWAY 18-36	MENDOZA	36,5	April - July 2016
Ezeiza	SEVERAL PROJECTS IN NEW TERMINAL B	Buenos Aires	14,0	April - September 2016
Aeroparque Jorge Newbery	INTERNAL RENOVATIONS FOR NEW DINING AND SERVICES AREA	Buenos Aires City	3,3	May - June 2016
Comodoro Rivadavia	EXPANSION OF PARKING AREA	CHUBUT	4,6	May - July 2016
Ezeiza	MAINTENANCE AREA PLATFORM	Buenos Aires	1,6	May - July 2016
Formosa	NEW HIGH INTENSITY BEACON SYSTEM	FORMOSA	2,3	May - August 2016
Mendoza	RENOVATIONS AND EXPANSION OF PARKING AREAS	MENDOZA	8,3	May - August 2016
Ezeiza	OTHER PLATFORM RENOVATIONS	Buenos Aires	3,5	May - September 2016
La Rioja	NEW BEACON SYSTEM ON RUNWAY	LA RIOJA	2,0	June - September 2016
Malargue	REPAIRS ON RUNWAY	MENDOZA	1,2	June - September 2016
Rio grande	ALS AND OTHER RUNWAY RENOVATIONS	TIERRA DEL FUEGO	1,6	June - October 2016
Ezeiza	REPAVING SERVICE STREET ALFA, COMPLETION OF CENTER LINE, LIGHTING SYSTEM	Buenos Aires	4,3	June - August 2016
Ezeiza	MAIN RENOVATIONS AND NEW BEACON SYSTEM ON RUNWAY 17-35	Buenos Aires	8,6	June - August 2016
Bariloche	NEW WASTE TREATMENT PLANT	RIO NEGRO	1,3	July - August 2016
Ezeiza	RENOVATIONS ON ARRIVALS AREA TERMINAL A	Buenos Aires	3,3	July - August 2016
Córdoba	MAIN ENTRANCE AND PARKING RENOVATIONS	CORDOBA	2,6	July - September 2016
Salta	REPAVING RUNWAY AND SERVICE STREET	SALTA	10,0	August - November 2016

# AIRPORTS

## 43 future tenders: 436.4 M USD

Contacto: Patricio Di Stéfano (President, ORSNA) [pdistefano@orsna.gov.ar](mailto:pdistefano@orsna.gov.ar)

Felisa Blaquier (Comunicaciones, ORSNA) [fblaquier@orsna.gov.ar](mailto:fblaquier@orsna.gov.ar)

Category (by airport)	Description	Province	Budget (Million USD)	Tender
San Juan	NEW PASSENGER TERMINAL	SAN JUAN	17,3	August - november 2016
Aeroparque Jorge Newbery	EXPANSION OF MAIN CHECK-IN AREAS	Buenos Aires City	12,0	September - October 2016
Ezeiza	NEW DEPARTING AREA IN TERMINAL B	Buenos Aires	73,3	September - November 2016
Iguazú	NEW PASSENGER TERMINAL	MISIONES	26,6	September - November 2016
Malargue	EXPANSION OF EXISTING TERMINAL	MENDOZA	2,0	September - December 2016
Córdoba	RENOVATIONS ON RUNWAY 18-36 AND NEW BEACON SYSTEM	CORDOBA	8,4	October - december 2016
Esquel	PASSENGER TERMINAL REMODELATIONS	CHUBUT	5,6	October - december 2016
Ezeiza	RENOVATIONS AND ILUMINATION ON ZULU POST PLATFORM	Buenos Aires	3,3	October - december 2016
Formosa	MAIN RENOVATIONS ON TERMINAL	FORMOSA	6,0	November - January 2016
La Rioja	RENOVATIONS ON PASSENGER TERMINAL	LA RIOJA	4,3	November - January 2017
Jujuy	NEW PASSENGER TERMINAL	JUJUY	20,0	November - February 2016
Aeroparque Jorge Newbery	NEW POST PAMPA/CHARLIE, ENERGY & BEACON SYSTEM	Buenos Aires City	3,0	2017
Aeroparque Jorge Newbery	NEW COMMERCIAL PLATFORM (NORTH)	Buenos Aires City	10,0	2017
Comodoro Rivadavia	EQUIPMENT FOR NEW TERMINAL	CHUBUT	3,3	2017
Comodoro Rivadavia	RENOVATIONS ON RUNWAY AND PLATFORM, BEACON SYSTEM	CHUBUT	9,3	2017
Ezeiza	ELECTRIC REPOWERING.	Buenos Aires	1,3	2017
Ezeiza	EXTERNAL WORK ON NEW AND EXISTING TERMINALS	Buenos Aires	26,6	2017
Ezeiza	MAIN RENOVATIONS AND NEW BEACON SYSTEM ON RUNWAY 11,29	Buenos Aires	10,0	2017
Ezeiza	UPDATING BEACON SYSTEM ON MOVEMENT AREAS	Buenos Aires	10,0	2017
Jujuy	NEW CONTROL TOWER	JUJUY	2,6	2017

# AIRPORTS

43 future tenders: 436.4 M USD

Contacto: Patricio Di Stéfano (President, ORSNA) pdistefano@orsna.gob.ar

Felisa Blaquier (Comunicaciones, ORSNA) fblaquier@orsna.gob.ar

Category (by airport)	Description	Province	Budget (Million USD)	Tender
Posadas	RESURFACING RUNWAY, PLATFORM, SERVICE STREET, BEACON SYSTEM	MISIONES	11,3	2017
Rio grande	RESURFACING RUNWAY	TIERRA DEL FUEGO	4,0	2017
Several	OTHER SMALL AND MEDIUM SIZE PROJECTS	SEVERAL	16,6	

**Total**

**USD 436.4**

# AIR NAVIGATION

13 future tenders: 121,5 M USD

Contact: Agustin Rodriguez Grellet (President, EANA S.E.) arodriguez@eana.com.ar

Category	Description	Budget (Million UDS)	Tender
Network	ATN Update the current network infrastructure	USD 1,5	August 2016
Communication	Develop new VHF stations and updating of existing	USD 12,2	September 2016
Communication	VCS (Voice Switching) , and recorder equipment upgrade	USD 13,8	October 2016
Navegation	Implementation of ATM (Air Traffic Management)	USD 9	September 2016
Navegation	Renew equipment ILS	USD 31,5	September 2016
Air Traffic Service	Installation of new systems - Tower Ezeiza	USD 12	January 2017
Communication	ACARS Data link	USD 2	December 2017
Vigilance	Implementation of ADS- B surveillance	USD 5,5	September 2016
Vigilance	Updating primary /secondary and surface radars at Ezeiza	USD 16,5	February 2017
Vigilance	Update secondary radar at Paraná	USD 2,5	January 2017
Guidance Systems	Acquisition System A- SMGCS (Advanced Surface Movement and Guidande Control System)	USD 4	March 2016
Navegation	PBN (Performance Based Navigation) implementation	USD 3	September 2016
Navegation	Aircraft for nav aids inspection	USD 8	August 2016

**Total**

**UDS 121,5**

# URBAN MOBILITY

27 future tenders: 3353 M USD

Contact: Manuela López Menéndez (Public Transport Secretary) manlop@transporte.gov.ar

Category	Description	Province	Budget (million USD)	Tender
Regional Express Rail (RER)	Saenz transfer station	Metropolitan Area of Buenos Aires	35	Under bidding process
Roca line modernization	Stations between Berazategui and La Plata	Metropolitan Area of Buenos Aires	33	May-16
Roca line modernization	Signalling	Metropolitan Area of Buenos Aires	176	May-16
Roca line modernization	Track renewal	Metropolitan Area of Buenos Aires	57	May-16
Infraestructure	Street and sidewalk refurbish	Metropolitan Area of Buenos Aires	135	May-16
Infraestructure	Hydric infraestructure	Metropolitan Area of Buenos Aires	50	May-16
Infraestructure	Public Lighting	Metropolitan Area of Buenos Aires	17	May-16
Infraestructure	Retiro Bus Central Station	Buenos Aires City	30	June 2016
Roca line modernization	Station surroundings	Metropolitan Area of Buenos Aires	13	June 2016
Infraestructure	Bike lanes	Cities to be defined	17	July 2016
Metrobuses	Metrobus Lanus	Metropolitan Area of Buenos Aires	15	July 2016
Metrobuses	Metrobus Moron	Metropolitan Area of Buenos Aires	15	July 2016
Metrobuses	Metrobus 3 de Febrero	Metropolitan Area of Buenos Aires	20	July 2016
Metrobuses	Metrobus Mar del Plata	Buenos Aires province	15	July 2016
Regional Express Rail (RER)	Roca line - "Constitución" Station underground	Metropolitan Area of Buenos Aires	200	July 2016
Roca line modernization	Low level crossing	Metropolitan Area of Buenos Aires	15	July 2016
Regional Express Rail (RER)	San Martín viaduct	Metropolitan Area of Buenos Aires	140	Sep-16
Regional Express Rail (RER)	Belgrano Sur line extension to Constitucion station	Metropolitan Area of Buenos Aires	100	sept -October 2016
Regional Express Rail (RER)	Mitre Tigre viaduct	Metropolitan Area of Buenos Aires	110	Oct-16
Regional Express Rail (RER)	Roca line to "La Paternal" - tunnel + central station and viaduct	Metropolitan Area of Buenos Aires	800	October 2016
Regional Express Rail (RER)	Roca line connection in Retiro	Metropolitan Area of Buenos Aires	60	January 2017

# URBAN MOBILITY

27 future tenders: **3353 M USD**

Contact: Manuela López Menéndez (Secretaria de trabajos de transporte público) [manlop@transporte.gov.ar](mailto:manlop@transporte.gov.ar)

Category	Description	Province	Budget (million USD)	Tender
Infraestructure	Low level crossing	Metropolitan Area of Buenos Aires	150	January - May 2017
San Martin Line modernization	Line electrification	Metropolitan Area of Buenos Aires	150	June 2017
San Martin Line modernization	Electric Power Station	Metropolitan Area of Buenos Aires	50	June 2017
Regional Express Rail (RER)	Sarmiento line to Correo Central	Metropolitan Area of Buenos Aires	500	2018
Regional Express Rail (RER)	Sarmiento line connection with Mitre line	Metropolitan Area of Buenos Aires	300	2018
Mitre Line modernization	Line electrification	Metropolitan Area of Buenos Aires	150	2018

**Total**

**3353**

# THANK YOU

[www.transporte.gob.ar](http://www.transporte.gob.ar)



**MindeTransporte**

Argentina



# WE AIM TO DEVELOP INVESTMENTS AND EXPORTS, WHILE ADDING VALUE TO LONG TERM COUNTRY GOALS

High value-added services under a multi-disciplinary approach



- **Re-position Argentina**
- **Promote** specific industries
- **Assist** during investment process
- **Aftercare**
- Promote **re-investment**

**Quality Investments Management**

**INVESTMENTS**

**Integral Exports Development**

**EXPORTS**

- **Develop** industry/destination
- Convert PyMEs into **PyMEx**
- **Participation** in new markets and global value chains
- **Strengthen local companies'** export capabilities



**BUSINESS ENVIROMENT**

**Favorable Conditions Generation**

- **Improve** the investment and export processes
- **Promote initiatives** to improve competitiveness
- Generate an **attractive regulatory/fiscal framework**

**STRATEGIC PLANNING**

**Comprehensive Vision**

- **Identify key** value chains/ geographies
- **Monitor investment status**
- **Market intelligence**
- **Provide analysis** to the public and private sectors

# INVESTMENT OPPORTUNITIES IN SELECTED SECTORS

1

## ENERGY



- 20% renewable energy mandate (10GW by 2025)
- 10GW+ of new baseload power generation capacity and transmission infrastructure needed
- Largest shale oil/gas play outside USA (“Vaca Muerta”) with great production potential
- Large conventional oil and gas reserves
- Offshore and biofuels development



## INFRASTRUCTURE

2

- Construction and improvement of roads and highways
- Enhancement of freight and passenger railway networks
- Economic integration of the North-Western part of the country (Plan Belgrano)
- Metropolitan area transportation (bus, trains, stations and crossings)
- Airports improvement

3

## MINING



- Abundant mineral reserves with high mining grades: copper, gold, silver, potassium
- Technically and commercially viable projects
- High-purity lithium production in the “Lithium Triangle”
- ~75% of potential mining surface still unexplored



## AGRIBUSINESS

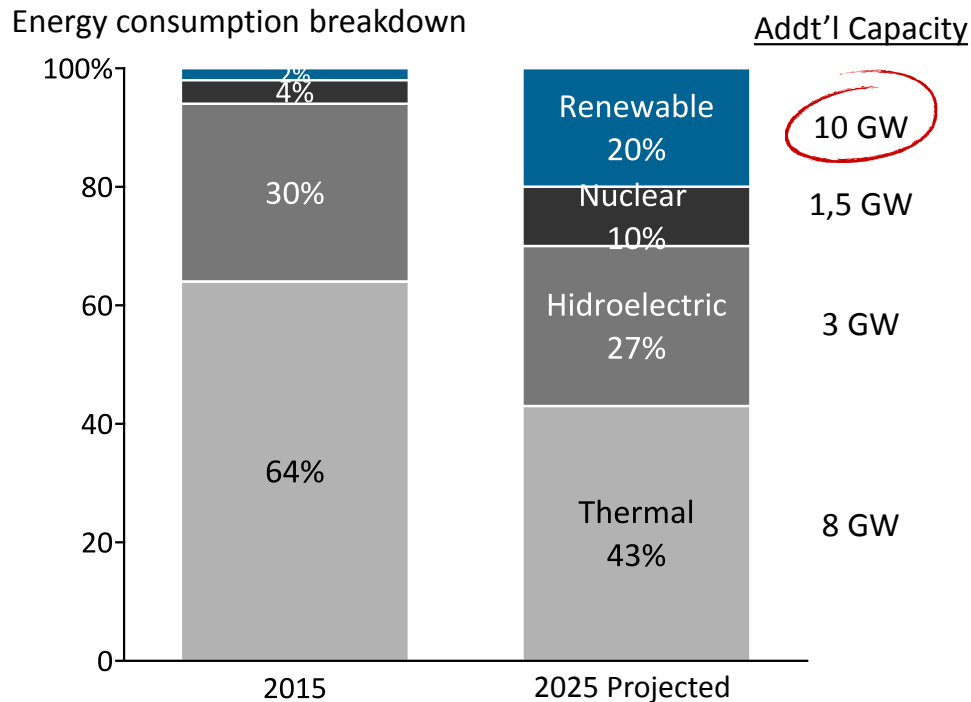
4

- Land development using irrigation systems
- Great conditions for animal protein production: beef, poultry and swine
- Expansion of the forestry and cellulose, paper and wood industries
- Increased food industrialization

### Opportunities in Selected Sectors

# Energy: Attractive Renewables and Unconventional O&G markets under development

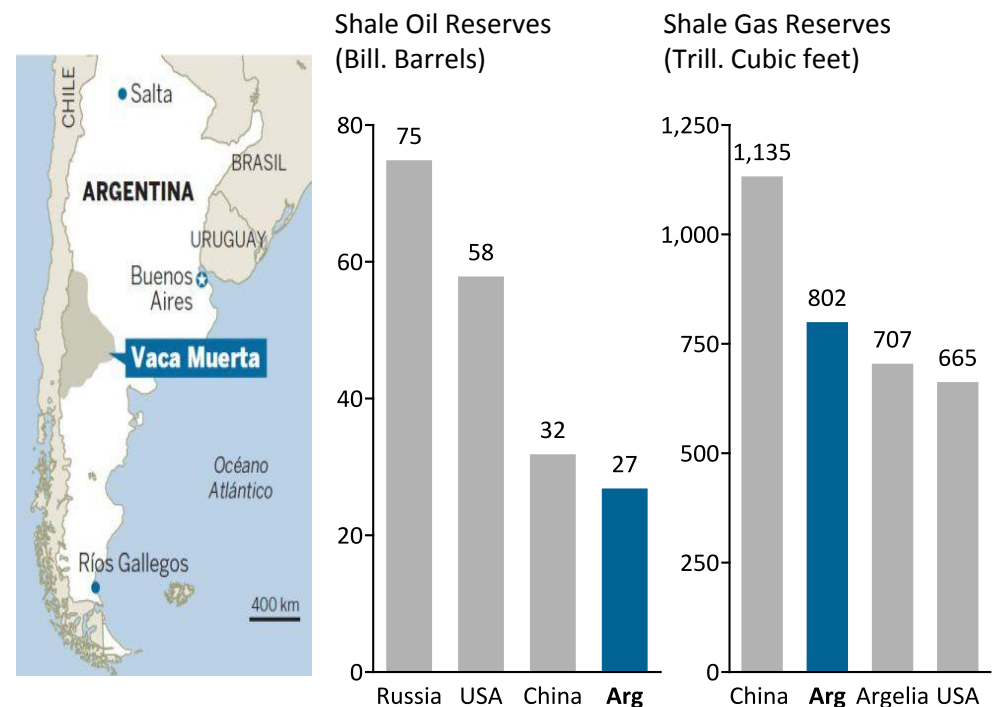
## POWER GENERATION: RENEWABLES TARGET OF 20% OF CONSUMPTION SHALL BE MET BY 2025



- **Investments of U\$15B needed** to meet renewables target
- Great conditions for **wind, solar, biomass** and **small hydro**
- **Government Commitment and Support:**
  - Competitive prices under guaranteed long term PPAs
  - Tax incentives (accelerated depreciation, levied import duties, etc)
  - Financing to renewable energy projects
- **>10GW of large baseload plants** (thermal/hydro) needed

Source: Ministry of Energy and Mining, EIA

## UNCONVENTIONAL O&G: "VACA MUERTA" PLAY HAS WORLD-SCALE POTENTIAL



- Argentina holds the **world's 2<sup>nd</sup> largest shale gas** and **4<sup>th</sup> largest shale oil** reserves
- *Vaca Muerta* is the **largest shale oil & gas play** outside the US, with 4+ years of cumulative development
  - Area of 30,000 km<sup>2</sup> with ~300m of shale layer at ~3,500m of depth (with 3-5% of Total O&G Content)
  - JVs between YPF and Chevron, Dow, Pampa, Petronas

## Infrastructure: Ambitious development plans for roads & highways, railways and airports

### ROADS: IMPROVEMENT AND CONSTRUCTION OF HIGHWAYS

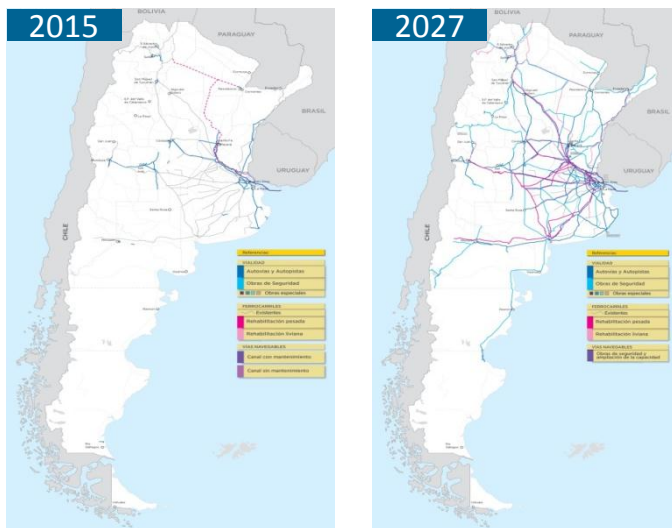
- ~40% of roads currently are in **poor conditions**
- Only 2.800km of highways in place
- **Plan 2027:**
  - 11.400 km. of total highways
  - 13.000 km. of roads
  - Investment of U\$28.000M needed

### RAIL FREIGHT: REHABILITATION OF THE ENTIRE NETWORK

- Only 5% of freight is transported by **railway** (18M tones)
- **Average speed of ~12-15km/h**
- **Plan 2027:**
  - 10.000 km of refurbished rails
  - 80-100M tones transported
  - Investment U\$15,000M needed

### AIRPORTS: MODERNIZATION & INCREASE OF FLIGHT USAGE

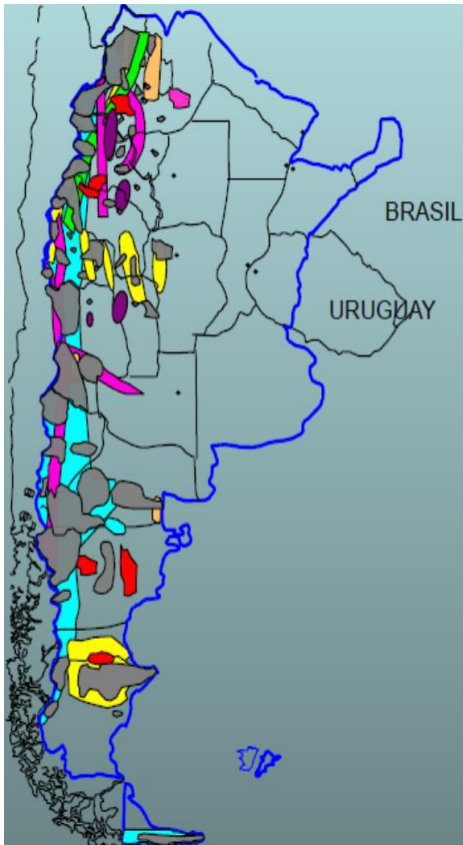
- **Growth by 2x of air traffic** expected by 2020 (10M to 20M passengers)
- **Greater international connections**
- **Plan 2019:**
  - 14 airports modernized of by 2019
  - Investments of U\$ 900M needed



**Goal:** To develop infrastructure that benefits productive corridors, strengthens logistics networks, and creates strategic connectivity to promote investment and trade

# Mining: Abundant reserves of Copper, Silver, Gold, Lithium and Potassium

## SIGNIFICANT MINING POTENTIAL WITH ~75% UNEXPLORED SURFACE



- 750,000 Km<sup>2</sup> of high potential mining areas
- 183,000 Km<sup>2</sup> of granted mining rights
  - 25 advanced prospects
  - 14 production mines

### Legend:

- Gold
- Copper
- Uranium
- Polymetallic
- Lithium
- Lead-Zinc
- Iron
- Prospective areas

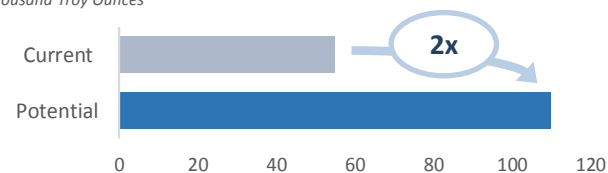
- ~75% of the mining surface remains unexplored
- As of 2016, no export taxes for mining products

## IMPORTANT OPPORTUNITIES IN GOLD, SILVER, COPPER AND LITHIUM



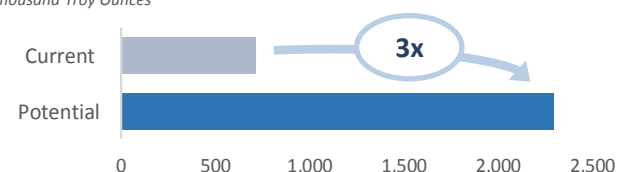
Gold

Thousand Troy Ounces



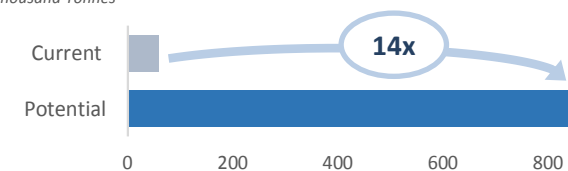
Silver

Thousand Troy Ounces



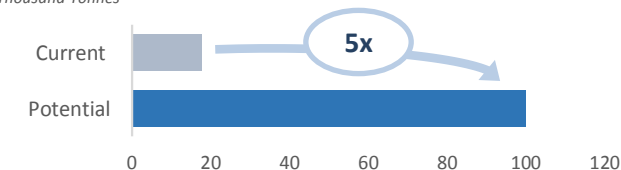
Copper

Thousand Tonnes



Lithium

Thousand Tonnes

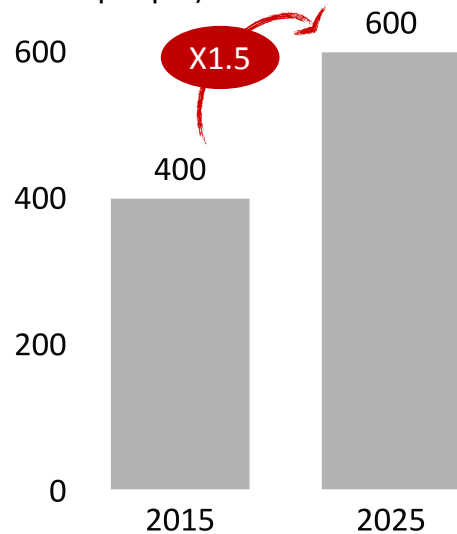


- Over U\$20Bn needed to develop existing Copper, Silver, Gold, Lithium and Potassium projects

# Agribusiness: Opportunities in Irrigation, Cattle raising, Forestry/cellulose/paper and Food industrialization

## ARGENTINA HAS EXCELLENT AGRICULTURE CONDITIONS AND FULL GOVERNMENT SUPPORT...

Argentina's food production  
(Million people)



### 2015 Argentine production



59M tons production  
1<sup>st</sup> soyoil exporter (6Mt)  
2<sup>nd</sup> soymeal exporter (32Mt)  
3<sup>rd</sup> soybean exporter (12Mt)



27M tons production  
3<sup>rd</sup> world exporter (17Mt)



2.8M Tons produced  
11<sup>th</sup> meat exporter  
(265MT)

- **Farming conditions:**
  - **Mild Climate** with abundant rainfall
  - **Rich soils** with low fertilizer needs
  - **Exceptional human resources**, long farming tradition
  - **High technology adoption** in crop genetics (>65% GMO)
  - **Unparalleled logistics** with 100% storage capacity
- **Government support:** one of the first measures adopted by President Macri's administration was the elimination of export taxes to wheat, corn, meat and regional products

## ...BUT THERE ARE STILL MANY OPPORTUNITIES FOR FURTHER DEVELOPMENT



Development of more than 4M Ha with **artificial irrigation**

Investment: **8.000M USD**



**Cattle raising** expansion– 10M heads, 200K swine and 1,5B poultry

Investment: **+10.000M USD**



Expansion of the **forestry and cellulose/paper industry**, biomass energy and housing. Raw material: 4-5M m<sup>3</sup>/year

Investment: **2.500M USD**



Increased **food industrialization** (milling, wine, canned and frozen food)

Investment: **+500M USD**