# **Latin America Infrastructure**

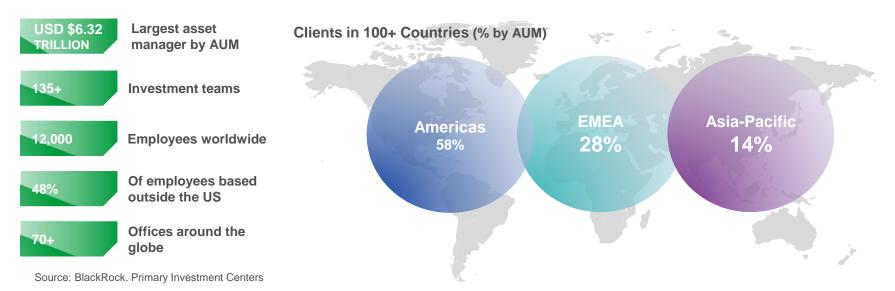
May 2018

**BLACKROCK®** 

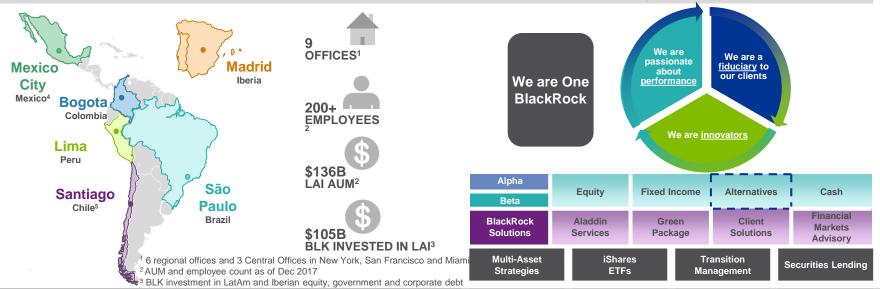
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## **BlackRock brings Worldwide Asset Management Capabilities**

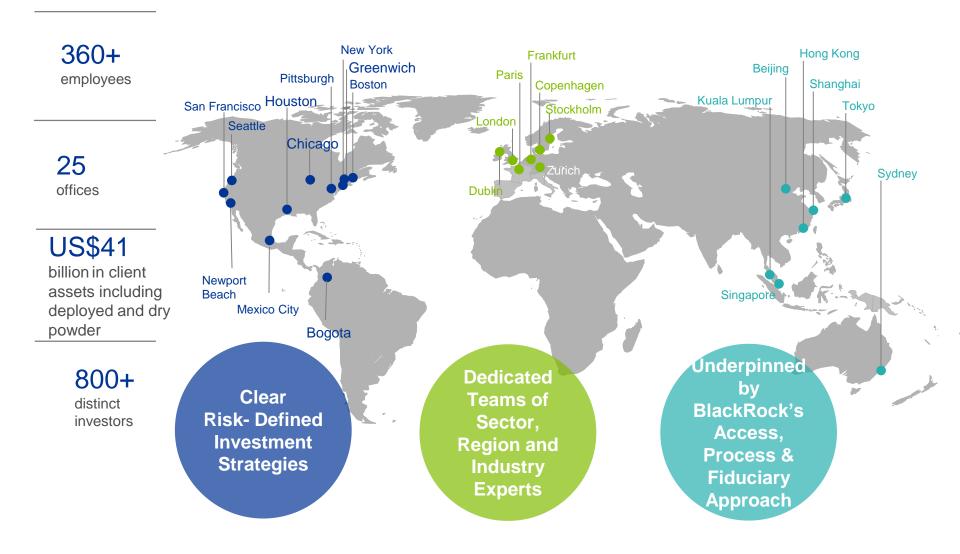


## BlackRock Latin America and Iberia (LAI) - Committed to the region since 1994



Source: BlackRock

## BlackRock Real Assets — Global reach with local expertise



Source: BlackRock as of 31 December 2017

## BlackRock Infrastructure – At a Glance

### Global investment activity span across different sectors

**180+ wind and solar projects** globally, generating clean energy to over **6.5 million homes** 



**US\$7.5bn of investments** in power generation and generation assets in 18 countries across 5 continents



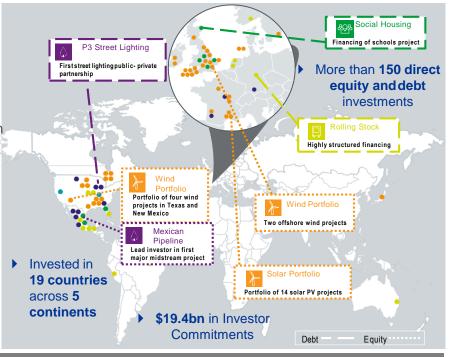
30,000km of gas pipelines providing secure energy supply to manufacturers and households globally



Invested in 25 transport infrastructure assets connecting cities, countries and regions across the world



More than US\$600 million of investments in local schools. hospitals, social housing and student accommodation



#### BlackRock Infrastructure - Over US\$19.4 billion AUM - 153 professionals

#### Infrastructure Executive Team – 41 Professionals

**Equity Indirect Equity** Debt Global Infrastructure **Energy & Power Global Infrastructure** Renewable Power **Latin America Solutions** Debt US\$4.9 bn AUM US\$650 mm AUM US\$3.8 bn AUM US\$1.9 bn AUM1 US\$8.2 bn AUM 27 Professionals 21 Professionals 20 Professionals 37 Professionals 7 Professionals Underpinned by BlackRock Global **BlackRock** 

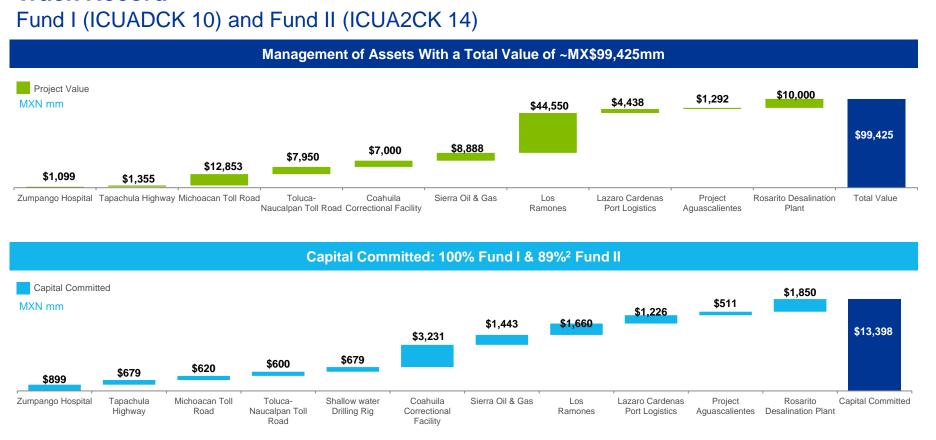
**Risk Analytics** BlackRock Solutions **Investment Teams** Up data as February 2018; bottom data as of december 2017; Risk Factors: It cannot be assumed that long-term contracts will be obtained in the future for existing projects or for new

**Investment Institute** 

projects; Access to similar projects in the future are not guaranteed; Past Performance is not a reliable indicator of current or future results and should not be the sole factor of consideration when selecting a product or strategy.



#### **Track Record**



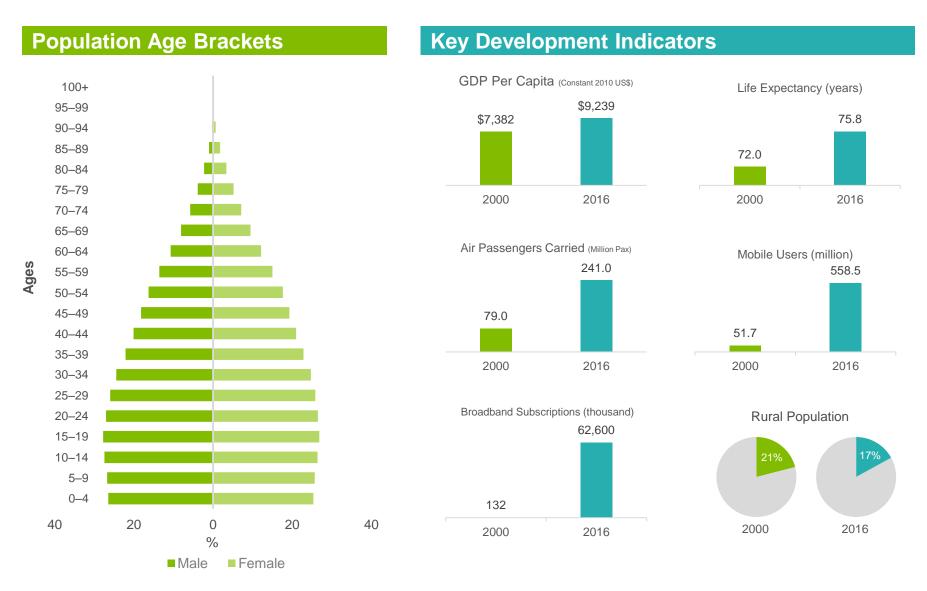


<sup>2.</sup> \_Assumes commitment in TAG project (currently in closing process)

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## Latin America Market Assessment

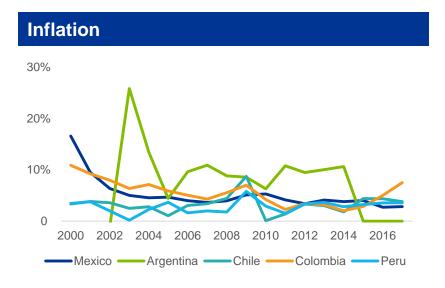
## Latin America – a Young Region Coming into Prosperity



Source: INEGI, Index 100 - 2008, with information of U.S. Census Bureau; population in



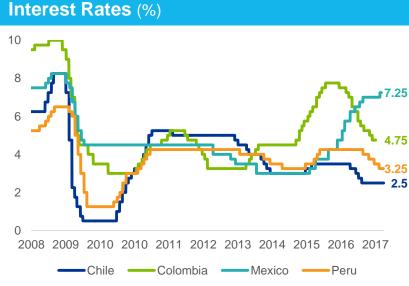
## **Macroeconomics Also in Convergence**











Source: World Bank, as of December 2017; with data from Argentina, Chile, Colombia, Mexico and Peru; Bloomberg

## Near term investment opportunity is uneven

Different themes and cycles in individual markets



- Impact of power prices
- Sustainability of recent real estate boom



### **United Kingdom**

- Brexit watch on prices, volumes and flows
- Demand for secure income assets
- Two-speed market: London vs. the Rest
- High pricing for large headline investments

Asia

Rise of alternative real estate sectors



#### **United States**

- Inflows of international capital
- Changing power generation mix
- Low energy prices
- RE Supply/demand in balance
- New construction on the horizon
- Impact of omni-channel retail
- Rise of alternative real estate sectors



- Large, liquid market with diverse deal flow
- Low rates
- Shifting demographics and rise of migration
- Rise of renewables and utility disruption
  - Strong CBDs, weaker fringe



- Rising infrastructure volumes / falling real estate volumes
- China's direction
- Investors chasing hot cities
- Impact of low power prices in SE Asia
- Tourism



## Latin America

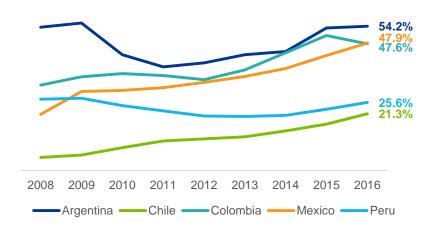
- Infrastructure investment as a fiscal tool
- National reforms driving energy sector liberalization
- Strong commitment to renewables
- Robust outlook on transportation
- Changing composition of off-takers

## **Latin America Infrastructure Lags – Economic Development**

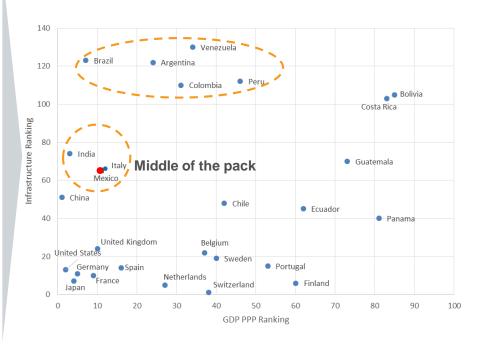
#### Infrastructure Quality Ranking 2016 (140 Countries) 1

# 123° 122° 110° 65° 48° 20°

#### Debt as % of GDP<sup>2</sup>



#### GDP per capita vs. Infrastructure ranking<sup>3</sup>



- Marginal return on infrastructure higher than comparable countries
- Undercapitalized sectors provide opportunity for lower competition
- Potential to realize cap compressions in key investments

<sup>1.</sup> World Economic Forum Report Global Competitiveness Index 2006-2015

Bloomberg

Source: 2015-2016 Global Competitiveness Report, World Economic Forum: http://reports.weforum.org/global-competitiveness-report-2015-2016/competitiveness-rankings

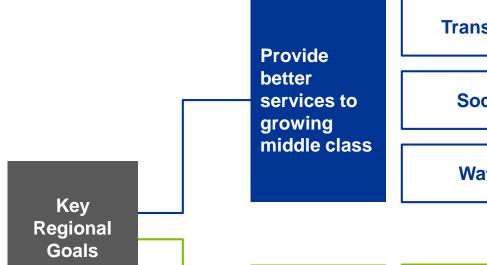
## Time to look at Latin America – Again



PF AUM projected growth 2016/2018 in local currency.

## **Infrastructure Opportunities in Latin America**

### **Infrastructure Response**



growth

**Transport** 

- Toll Roads
- BRT's
- Rails



Social

- Hospital
- Schools

Water

- Desalination
- Drainage
- Water Treatment



**Develop** energy sufficiency for competitive

**Energy** 

- Midstream Infrastructure
- Other energy Investments

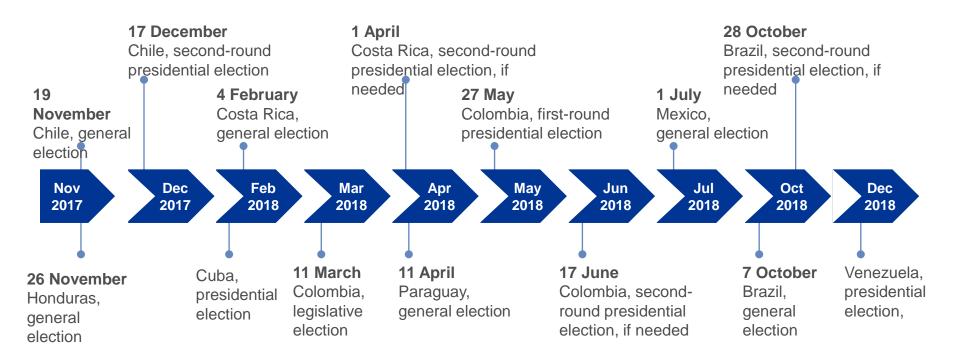


**Power** 

- Generation Capacity
  - Renewables
  - Conventional
- Transmission
- Distribution



## **Latin America Elections 2017-2019**



Source: The Economist

# **Appendix**

## **Latin America Transport Infrastructure Outlook**

#### **Market Highlights**



- MX\$117,000 mm invested
- New ~1,800 km developed
- CAGR 8% cargo traffic



**Mexico** 

• 2.7% GDP investment in Transport, Water and Social 2016-2030

- Highest quality assets expected to come to market in the next 2-3 years
- Opportunity for cap compression; currently undercapitalized sector
- Attractive execution risk profile proven traffic and existing rights of way



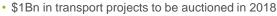
Chile

• Effective transportation and port systems developed since program launched in 1992.

- 80+ project with close to \$20Bn investment.
- In coming years, in addition to some greenfield projects, bids are expected for second concessions and maintenance contracts.

#### **Investment Opportunities**

- Transport Pipeline for the next 2-3 years:
  - MX\$11,100 mm in 2 Pemex Cargo ports
  - MX\$35,700 mm for Mexico City Urban Metro mobility
  - MX\$20,450 mm in 7 Federal PPP toll roads
- SCT, federal toll roads C&P PPPs for MX\$10,900 mm: : Queretaro-San Luis Potosí; Coatza.-Vill.; Matehuala-Saltillo; Pirámides-Tulancingo; Saltillo-MTY-Nvo. Laredo
- +11,000 km Highway Concessions Package April of 2018
  - A. Buenos Aires-Azul-Bahía Blanca –US\$984 mm
  - B. B.Aires-Santa Rosa US\$989 mm
  - C. Routes 9,11,34,193A,008 -US\$1,300 mm
  - D. B.Aires-Rosario-Santiago –US\$1,114 mm
- Renovacion integral FFCC Belgrano 851 km



- Second concession Ruta 5 US\$541 mm
- Autopista Metropolitana Puerto Montt US\$358 mm
- G 21 broadening US\$103 mm



Colombia

- Intermodal transportation needs identified at US\$72 billion
  - Roads: US\$63 billionAirports: US\$5.6 billionRail: US\$3.5 billion
- Fluvial Transportation US\$3.0 billion

- Corredor Perimetral del Sur US\$1,000 mm
- Cartagena Airport US\$1,000 mm
- El Dorado II Airport US\$718 mm
- Puerto de Antioquia US\$246 mm
- Magdalena River Navigability and Channeling Project
- Barranquilla Light Rail



Peru

- Investment gap in transportation sector of US\$21 billion on near term opportunities (2016-2020)
- 10-year gap estimated at US\$58 billion
- Local construction companies involved in corruption scandals, open opportunities for international players
- Anillo Vial Periférico Lima US\$ 1,700 mm
- Longitudinal de la Sierra S4 and S5 US\$464 mm
- · Rehabilitation and Maintenance PPPs
- Salaverry Port modernization concession US\$215 mm

## **Latin America Water Infrastructure Outlook**

#### **Market Highlights**





Since 2012, 176 water treatment plants incorporated

- 5,645 I/s of installed capacity with a total investment of MX\$136,706 million
- 2013-2015 government invested MX\$5,586 mm to drainage and water treatment system
- MX\$18,404 mm investment in 11 water projects for next 3 years

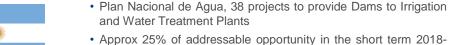


and Water Treatment Plants

- 2021
- Support program from multilateral agencies in place US\$2.5 Bn

#### **Investment Opportunities**

- MX\$12,378 mm in 11 water Infrastructure projects for the next 3 vears:
  - \$2,050 mm in 6 water supply projects (Delivery and PPP)
  - \$8,278 mm for 3 facility maintenance (Service Delivery)
  - \$2,050 mm in 2 water sanitation (Federal PPP)



- Acueduct Rio Norte y Rio subterraneo Norte
- Water purification plants in AMBA y Gran Rosario
- Water plant in Cd Santa Fe
- Modernization of sewerage system in San Miguel Tucuman
- 108k has nuevas de riego por desarrollar



Chile

- · Focus on universal coverage and waste water treatment in the past.
  - Privatization of water services in 1997 2007.
  - Waste water treatment reached 100% in 2013.
- · Infrastructure required to support agriculture and mining in the future.
- · Three hydro projects to support agriculture.
  - Embalse Murallas Viejas US\$132 mm
  - Embalse La Tranca US\$169 mm
  - Embalse Los Angeles US\$205 mm
- Radomiro Tomic (Codelco) Desalination Plant US\$1,000 mm.



Colombia

- Water Transportation and Potabilization: US\$10 billion
- Waste water treatment: US\$5 billion

- Santa Marta Aqueduct
- Canoas Waste Water Treatment Plant



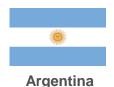
- Near Term (5-years) investment gap of US\$11.5 billion
- · Main focus if current administration, with strong presence of global players
- Headworks for water supply to Lima
- Titicaca Lake water processing US\$304 mm
- Amazon Waterway Concession –US\$204 mm

## Latin America Social Infrastructure Outlook

### **Market Highlights**



- · Mexico is 74 out of 138 in health and primary education, which is far behind its infrastructure position (57 out of 138)
- Mexican government will strengthen the medical care infrastructure through 7 IMSS and ISSSTE PPPs hospitals with a total \$11,000 investment and 1,344 new beds



- Approximately 10% of addressable opportunity
- Relatively low penetration of specialized players low competition

#### **Investment Opportunities**

- MX\$8,376 mm in 6 new general hospitals:
  - Durango Hospital \$1,127 mm
  - Torreón General Hospital \$1,073 mm
  - Zona Oriente (Texcoco) Hospital \$1,933 mm
  - Zona Norte Hospital \$1,547 mm
  - Tampico General Hospital \$1,341 mm
  - Acapulco GeneralHospital \$1.355 mm



- Hospital Agudos Isidoro Iriarte B.A.
- · Hospital Agudos Lucío Menendez B.A.
- · Hospital Pilar, Pilar, B.A.



Chile

- In spite of Chile's successful experience with concessions, most health investments have been government funded in the past.
- · However, since a few years ago, focus is starting to shift towards concessions given their superior actual performance and lower cost when compared to the State-run hospitals.
  - Hospital El Salvador, Felix Bulnes, etc...

Hospital Clinico Universidad de Santiago



Colombia

- Health US\$19.4 billion
- Education US\$3.9 billion
- Waste management US\$1.2 billion

- · 6 PPP's hospitals: Materno Infantil, Santa Clara, Simón Bolivar, Bosa, La Felicidad, Usme
- 7 Educational PPPs: Barranquilla, Medellín, Cartagena, Soacha, Ibaqué, Antioquía, Bogotá
- 8 Museum PPPs: Cartagena, Antioquía Villa de Leyva, Honda, Villa del Rosario, Popayán (2), & Ocaña



Short term investment requirements of US\$12 billion

- Hospital de Niños y Adolescentes
- Hospital de Alta Complejidad de Chimbote US\$110 mm
- Hospital de Alta Complejidad de Piura US\$144 mm

## **Important notes**

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