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**30 November – 1 December 2021** 

### AMERICAN FOCUS Panel 1: A bright future for American rail freight?

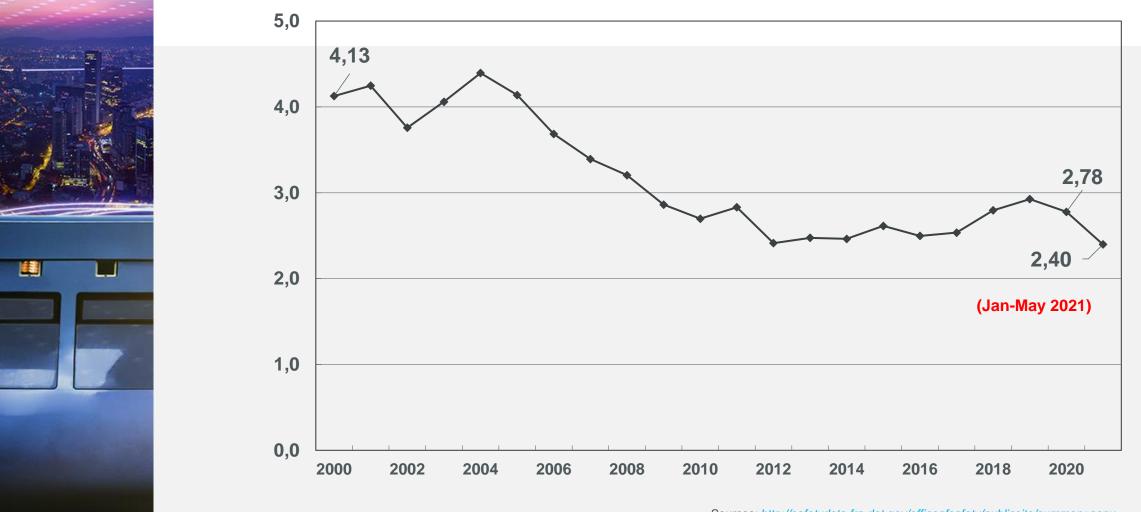
- Moderator: Mr. Anson Jack, Emeritus Professor, University of Birmingham
- Mr. Jeffrey F. Moller, AVP Transportation Systems & Practices, Safety & Operations, AAR
- Mr. Scott Cummings, AVP Research & Innovation, TTCI
- Ms. Caroline Healey, Executive Vice President and General Counsel, RAC
- Mr. Jorge Kohon, Consultant, Association of Latin American Railways, ALAF

30 November – 1 December 2021

Mr. Jeffrey F. Moller, AVP Transportation Systems & Practices, Safety & Operations, AAR

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#### SAFETY - In 2020, US Train Accidents / Million Train-Miles Dropped 33% since 2000 and 2% since 2011



Note: Excludes grade crossing accidents. Data for 2020 and Jan-May 2021 are preliminary, as of August 2021.



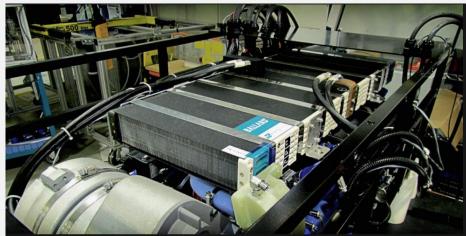
#### **Locomotive Innovations**



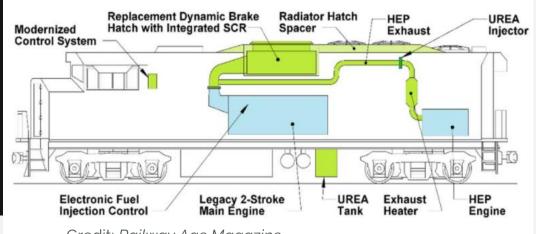
Credit: *Trains* magazine



Credit: Railway Age magazine



Credit: Balland



Credit: Railway Age Magazine



## **Successful Partnerships**

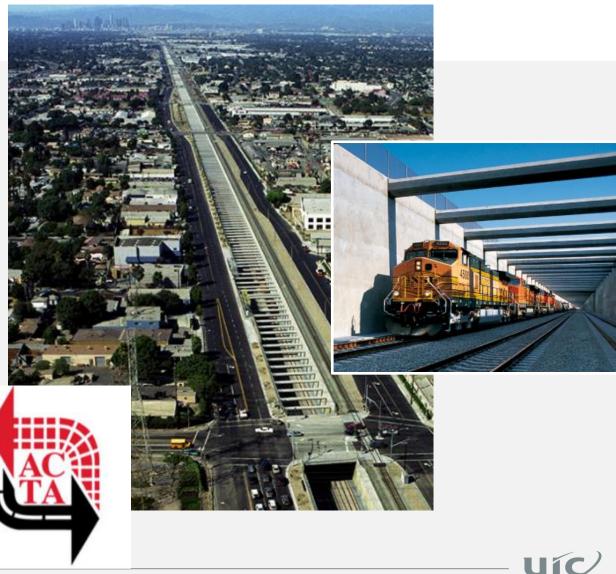






## **Other Public – Private Partnerships**





# Thank you for your attention



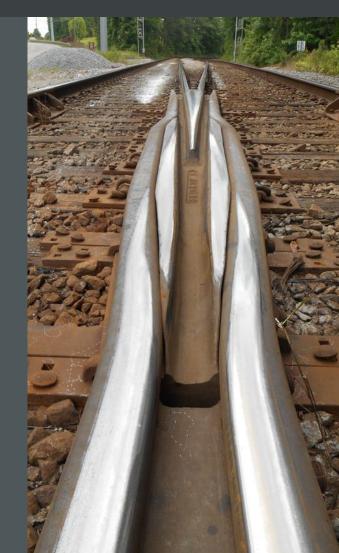
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**30 November – 1 December 2021** 

Mr. Scott Cummings, AVP Research & Innovation, TTCI

## **Challenges and Advantages**

- Capital investment
- Historical regulation
- Commodity mix
- Workforce
  availability
- Operational bottlenecks
- Extreme weather events



- Land ownership
- Fuel efficiency
- Labor efficiency
- Safety
- Self-sufficient infrastructure



## **Cooperation and Competition**

- Safety and regulation
- Interchange
- Pooled data
- Research and best practices
- Market share with other transportation modes

- Anti-trust
- Publicly traded
- Market share with other railroads





## **Timely Technology Adoption**

- Objective assessment
  - Teams
  - Facilities
  - Tools
  - Direction
- Business vetting





## **Bright Future Already Underway**

#### Reduced variation

- Energy management systems
- Automated inspection and detection for fixed and movable assets
- Reduced slow orders and unscheduled train stops
- Precision Scheduled Railroading
- Optimized effort
  - Data trending and skilled labor for fewer but more comprehensive rolling stock repairs
  - Incorporation of technology for infrastructure health assessments



# Thank you for your attention



30 November – 1 December 2021

## **UIC Symposium**

30 November – 1 December 2021

Ms. Caroline Healey, Executive Vice President and General Counsel, RAC

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Infrastructure

42,730

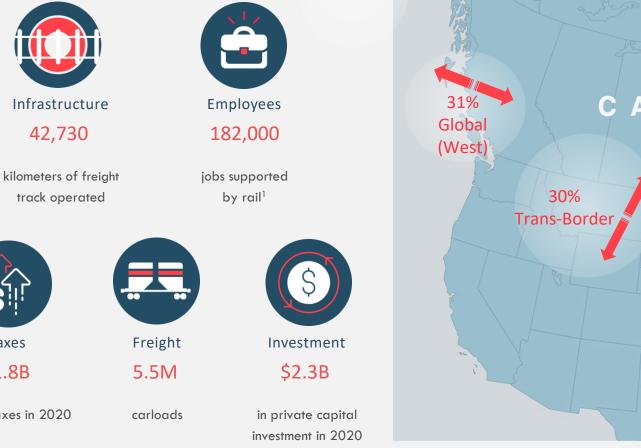
track operated

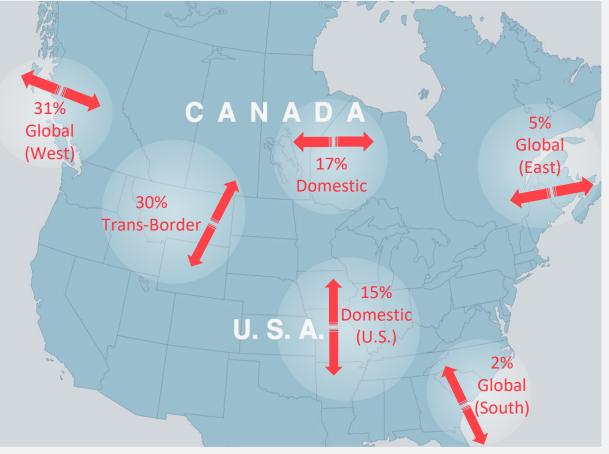
Taxes

\$1.8B

paid in taxes in 2020

## **Impact of Canada's Railways**



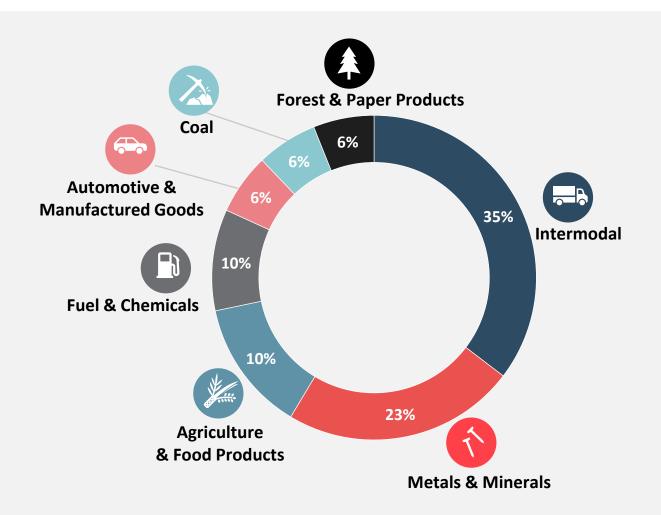


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Source: Rail Trends Database | 1 Conference Board of Canada and RAC



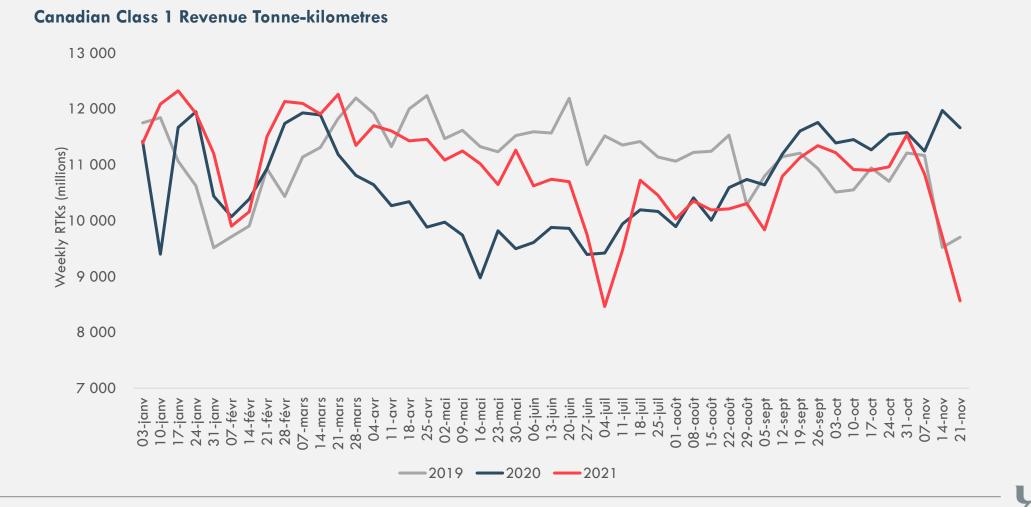
## **National Freight Portfolio**



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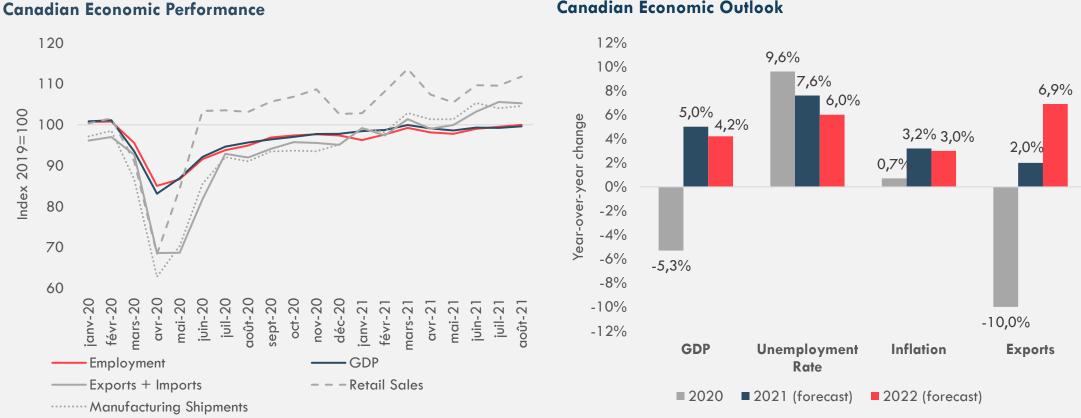


## **Class 1 Freight Activity**





## **Canadian Economic Outlook**



#### **Canadian Economic Outlook**

# Thank you for your attention



30 November – 1 December 2021

Mr. Jorge Kohon, Consultant, Association of Latin American Railways, ALAF

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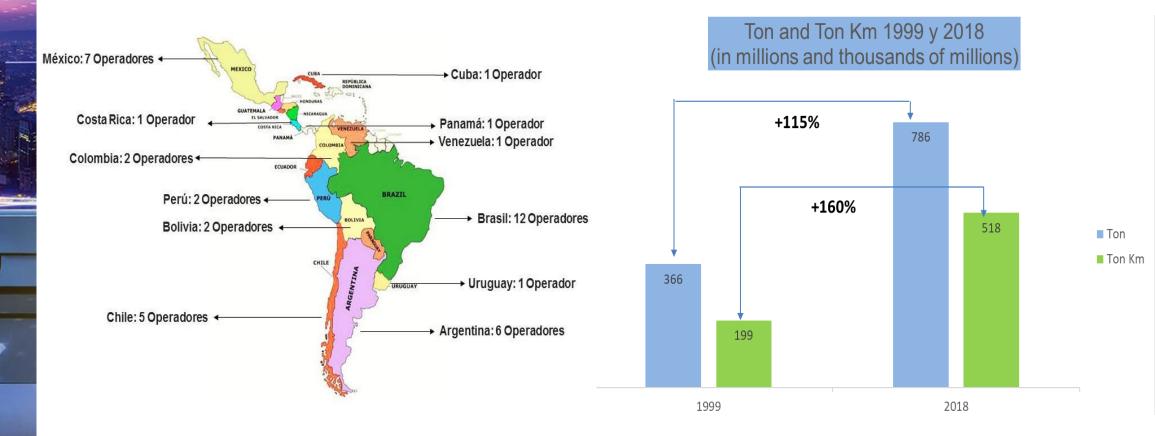
## A Bright Future for American Rail Freight?

Jorge Kohon Consultant

Latin American Association of Railways (ALAF)

Latin America and the Caribbean have 41 freight operators: 30 privately managed and 11 publicly managed

Traffic has grown significatively <sup>23</sup> between 1999 and 2018



The privately managed railway companies mobilized more than 95% of the regional tonnage

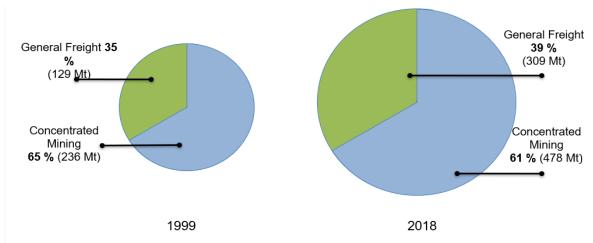


## **Brazil and Mexico provided 89% of the total tons transported in 2018**

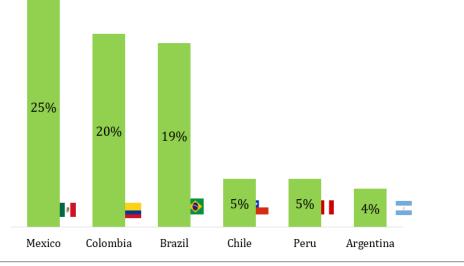


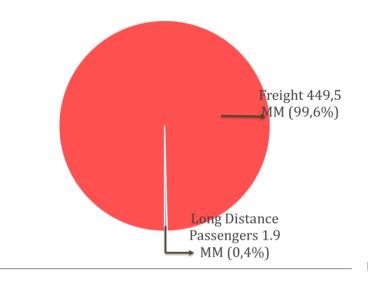
## Mexico, Colombia and Brazil reach a relatively high market share vs. road

#### **Concentrated mining constitutes more** than 60% of the total tonnage transported



Freight prevails in the rail long distance network

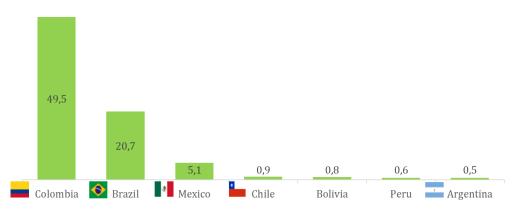




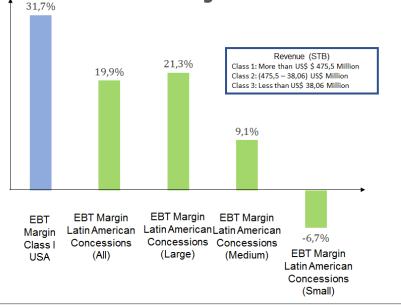


### Countries show strong differences in terms of freight traffic densities

(In millions of ton-km per Km)



## EBT Margin: Large railways perform financially better



#### All management models coexist in <sup>25</sup> Latin America



## Even Including commuters, freight dominates LA railway activity

(2008, in millions of Traffic Units: Ton-km + Pass-km)

| Activity   | Latin<br>America | Participation | World Total | Participation | % of LA in<br>World Total |
|------------|------------------|---------------|-------------|---------------|---------------------------|
| Freight    | 365.722          | 93,2%         | 8.845.153   | 78,0%         | 4,1%                      |
| Passengers | 26.704           | 6,8%          | 2.495.162   | 22,0%         | 1.1%                      |
| Total      | 392.426          | 100%          | 11.340.315  | 100%          | 3,5%                      |

## ¿Which is the Latinamerican rail agenda for the next 5-10 years?

- Although there are some turbulences (Mexico, Argentina), in general, the predominant role of concessions and the private sector in freight rail activity does not seem to be threatened
- Two topics could be the most relevant on the agenda:
  - Commercial exclusivity and intramodal competition
  - The long-term financial viability of small and medium size railways
    - The role of the states in the financing of infrastructure investments



# Thank you for your attention



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30 November – 1 December 2021

Mr. Stephen Gardner, CEO, Amtrak



## **Amtrak is** *America's Railroad***®**

- Congress created Amtrak in 1970, and the company began operations in 1971
- Operate a nationwide rail system of High-speed, short-distance and longdistance routes, including the Northeast Corridor between Washington & Boston
- Amtrak's mission is to deliver intercity transportation with superior safety, customer service and financial excellence



32.5 million annual

passengers supported by **18k** employees\* on 300+ daily trains and 600+ Thruway connections



**500+** destinations across **46 states**, **DC** and **3 Canadian provinces** (21k route miles (97% of route miles *not* owned)\*



**\$3.3 billion** in annual revenue and an additional **\$7.1 billion** in economic impact\*

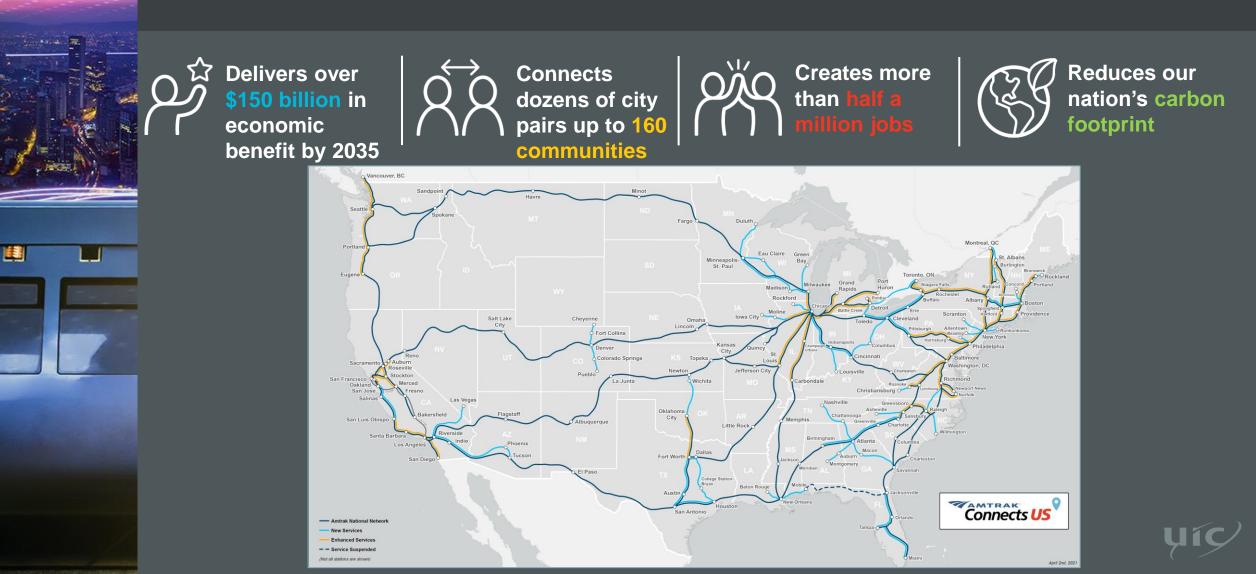
#### Amtrak's Future: Northeast Corridor Infrastructure

- \$30 billion for Amtrak, states and commuter railroads to address decades of underinvestment and advance the Northeast Corridor major bridge, tunnel, station, and state of good repair projects, including:
  - $\circ~$  The Gateway Program, including the Hudson Tunnel Project
  - B&P Tunnel replacement and East River Tunnel Rehabilitation
  - o Susquehanna River, Connecticut River, and Pelham Bay Bridges
  - Major Station Expansions Penn Station New York, Washington Union Station, Boston South Station
  - Upgrade of Core Systems Electric Traction, Signaling, Interlockings
- Will advance Connect 35 Plan developed by the Northeast Corridor Commission, an entity made up of Amtrak, NEC States and DOT to facilitate planning and cooperation among 4 owners and 12 railway users of the NEC.
- Investments will increase reliability, reduce trips times and increase capacity



- \$28 billion to Amtrak and States to advance state-of-good-repair capital projects, fleet acquisitions and service improvement and expansion across the nation:
  - Fleet and facilities New passenger equipment for state supported and long-distance trains
  - Stations Enhance Amtrak-served stations nationwide
  - Corridor Development Amtrak will work with the DOT, state transportation departments and host railroads to enhance existing corridors and advance new corridor routes, including high-speed routes:
    - Amtrak Connects Us Over the next 15 years, Amtrak's vision for expansion will connect up to 160 communities throughout the United States by building new or improved rail corridors in over 25 states

#### **Amtrak's Future: Amtrak Connects Us**



# Thank you for your attention



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30 November – 1 December 2021

Mr. Martin Landry, Chief Commercial Officer, VIA Rail Canada



### **VIA Rail in Canada**

Serving Canadians since 1977, from coast to coast to coast



**454 departures per week** Our trains left on time 84% of the time 430 train cars

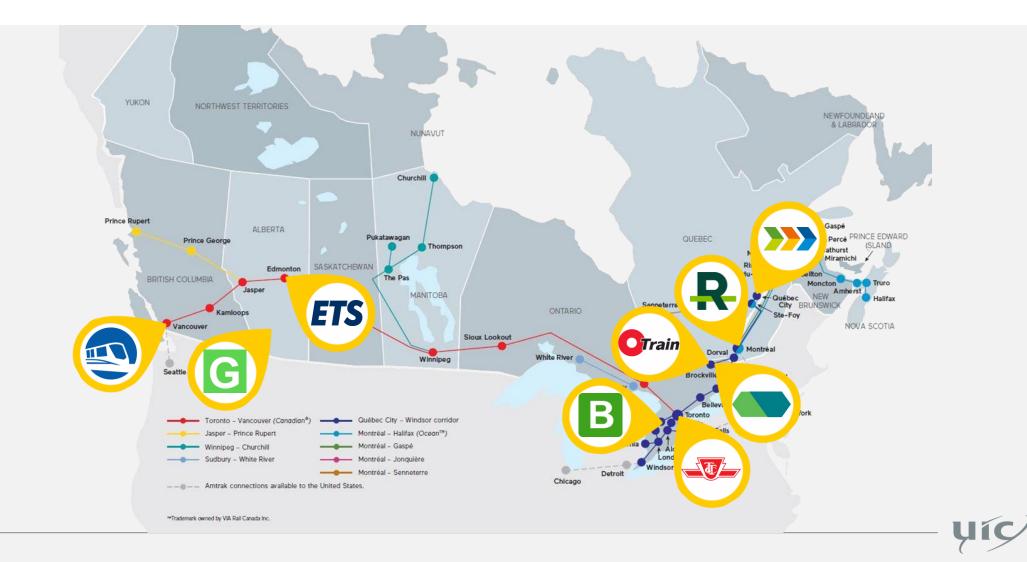
73 locomotives 92% have been refurbished to be more efficient and environmentally friendly **121** stations 54 are heritage buildings

96%/81%

% of ridership/revenue from the Windsor – Québec City Corridor +400 communities served



#### **VIA Rail's network**





## Planning better for the future

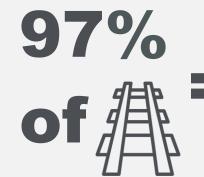




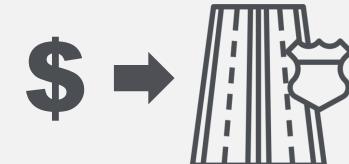


## The way forward

#### Headwinds / Challenges







#### **Tailwinds / Opportunities**







# Thank you for your attention



## **UIC Symposium**

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30 November – 1 December 2021

Mr. Paul P. Skoutelas, President and CEO, APTA

## **Rail Popularity in U.S.**

#### **Since 1999**

#### > 52% Increase in Rail Ridership

> 40 New Rail Systems

#### > 39% Increase in Rail Vehicle Miles





## **Bipartisan Infrastructure Deal**

**\$102.1 billion for passenger and freight rail,** \$86.7 billion (561%) increase from current levels

- Largest investment in passenger rail in 50 years
- \$66 billion in additional new funding
- \$12 billion for intercity and high-speed

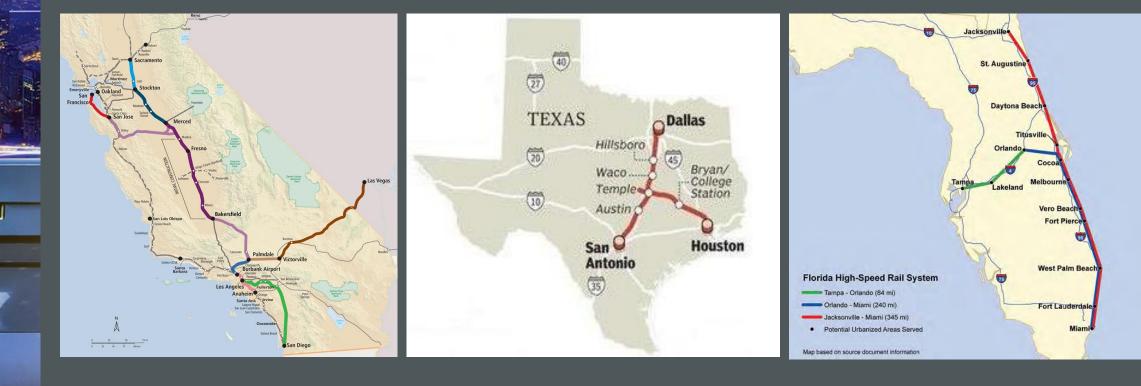


#### High-Speed & High-Performance Rail Projects in U.S.





#### **Examples of U.S. High-Speed Rail Projects**



California

Texas

Florida

# Thank you for your attention



**UIC Symposium** 

30 November – 1 December 2021

Mr. Joubert Fortes Flores Filho, Chief of Board ANPTrilhos Brazil

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## **ANPTRILHOS ASSOCIATES**





### Panorama of the Metrorail Sector – Brazil

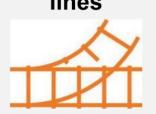
**1,116.5** km long



**5.8** million passengers/business day







5.324 operational passenger cars



627 stations

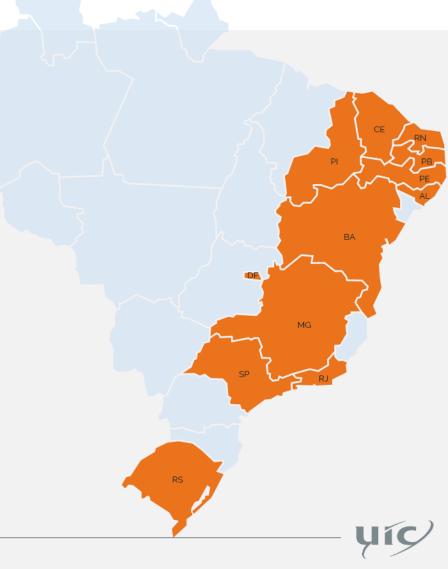




## **Operators and Systems**

Brazil has 21 systems of urban transportation of passengers on rails, distributed in 11 States and the Federal District, covering less than 50% of the Country.

These systems are operated by **15 companies**, **7** of which are private.



## **Ongoing Projects in Brazil – Passengers**

#### **BAHIA**

Section 3 of Line 1 (subway) Salvador Monorail

#### CEARÁ

East Line (subway) South Line (light rail vehicle)

**RIO GRANDE DO NORTE:** Purple Line (light rail vehicle)

#### SÃO PAULO:

Line 9-Emerald (urban train) Line 4-Yellow (subway) Line 2-Green (Subway) Line 6-Orange (subway) Line 17-Gold (monorail)



## **Ongoing Projects in Brazil – Freight Trains**



#### 29,320 km of freight rail network

#### EAST-WEST INTEGRATION RAILWAY (FIOL in Portuguese)

Port of Ilhéus (BA) - Figueirópolis (TO), where it will connect to the North-South Railway

#### **TRANSNORTHEAST RAILWAY**

Sertão do Piauí - Pecém (CE) and Suape (PE) ports

**NORTH-SOUTH RAILWAY – CENTRO-SOUTH TRAVEL** Porto Nacional (TO) - and Estrela D'Oeste (SP))

**CENTRAL WEST INTEGRATION RAILWAY** (FICO in Portuguese) Campinorte (GO) - Água Boa (MT)

Source: ANTF / Revista Ferroviária

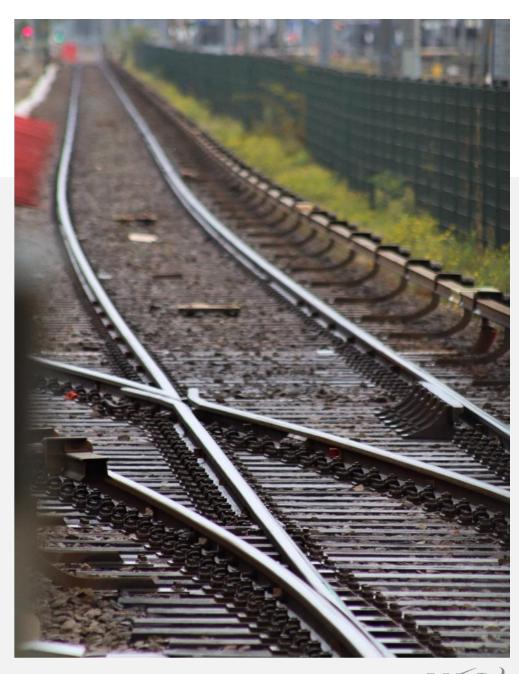




### **Grid Potential**

122 studies of eligible sections for passenger transport in 20 Brazilian states, totaling around 25,000 km of regional train projects

> Source : ABIFER, BNDES, FALA Br, Grupo ANTT 2013, Governo Distrito Federal, Governo São Paulo, Governo Goiás, PEF – MG, VLI



### **Regional Train Projects**

#### São Paulo-Campinas 135 km

**SP: Intercity Train** 

#### DF: Brasília-Luziânia 70 km

#### MG: Mineiro Trains

55

02 lines: BH-Ouro Preto and Mariana-Além Paraíba

## Thank you for your attention

Joubert Flores Chairman of the Board of ANPTrilhos

contato@anptrilhos.org.br



