

# Autobús de tránsito rápido

El sistema de **autobús o bus de tránsito rápido** (*Bus Rapid Transit* en inglés, **BRT**) es un término dado a una amplia variedad de soluciones de transporte basada en autobuses. El propósito común es el de proporcionar un servicio de bus de alta calidad con respecto al servicio tradicional de bus urbano. En el mundo los países que lideran la implementación de esta sistema de transporte son los países latinoamericanos en especial Colombia donde está previsto implantar este servicio en 9 ciudades importantes y donde todos aquellos tendrán servicios de alimentadores y carriles exclusivos.



El Transmilenio de Bogotá, segundo sistema BRT de Latinoamérica por antigüedad y primero en el mundo por pasajeros y por km de vías; es uno de los más conocidos (estación Museo del Oro)

- Colombia 10 sistemas BRT con alimentadores.
- Brasil 10 sistemas BRT.
- México 5 sistemas BRT.

El BRT comprende una variedad de modalidades que incluye buses expresos, vías sólo-buses y carriles sólo-bus.

## Características

Estos sistemas de bus los hay de variedades diferentes como los de vías dedicadas, carriles o número limitado de sitios de parada sobre una ruta tradicional. Un sistema ideal de bus rápido incluirá algunas de las siguientes características:

- Carriles para buses: un carril de una calle o avenida arteria se reserve para el uso exclusivo de los buses.
- Calles y vías para buses: una calle o un bulevar pueden diseñarse en un centro urbano para que todos sus carriles sean del uso exclusivo de los buses.
- Señal de preferencia para buses: dar un trato preferencial a los buses en las intersecciones como por ejemplo extender la duración del semáforo en verde para los buses, o activación del



Estación elevada del sistema TransMilenio en las Avenidas Suba y Boyacá, Bogotá.

semáforo en verde cuando se detecta un bus. Cruce de prioridad es particularmente útil cuando se implementa junto con carriles o calles dedicadas porque el tráfico de propósito general no interviene entre buses y señales de tráfico.

Manejo mejorado de tráfico: elementos de infraestructura de bajo costo que pueden aumentar la velocidad y confiabilidad del servicio de bus como bahías de parada, islas de abordaje y alineación de sardineles.

- Abordaje rápido: la recogida de pasajeros es un proceso que hace lento el servicio de bus especialmente cuando hay precios diferenciales para diferentes puntos de abordaje y de destino. Una alternativa rápida es la colección de pagos de pasajes al entrar a la estación antes de la llegada del bus de la misma manera en que estos se colectan en un sistema de tren metropolitano. Este sistema permite a los pasajeros abordar a través de todas las puertas de un bus detenido. Muchos sistemas usan buses de piso bajo o plataforma elevadas a la altura del piso de los buses para hacer más ágil el abordaje y mejorar el acceso.
- Importancia: estos sistemas no interfieren con el resto del tráfico urbano ya que utilizan carriles exclusivos. El modelo pionero de este sistema surgió en los años 70's en Curitiba, y ha venido implementándose con gran éxito en grandes Metrópolis como Bogotá ( el más grande), Ciudad de México y Madrid

## Autobús de tránsito rápido en América



Autobús articulado y estaciones tubo del sistema RIT, Curitiba, el pionero de los sistemas BRT implementados en el mundo.



Autobús articulado del Expresso Tiradentes, São Paulo.



Metrobús al paso por Avenida de los Insurgentes y cruce con Paseo de la Reforma, Ciudad de México.

## **Argentina**

- Posadas: Sistema Integrado de Transporte Misionero
- Buenos Aires: Metrobús (en construcción)

## **Brasil**

- Curitiba: Rede Integrada de Transporte
- São Paulo: Expresso Tiradentes
- São Paulo: Corredores Santo Amaro y Rebouças
- Aracajú: Sistema de Transporte Integrado
- Goiânia
- Belo Horizonte
- Porto Alegre
- Manaus
- Uberlândia: Sistema de Transporte Integrado

## **Colombia**

- Bogotá: TransMilenio
- Pereira: Megabús
- Cali: Masivo Integrado de Occidente
- Medellín: Metroplús
- Bucaramanga: Metrolínea
- Barranquilla: TransMetro
- Cartagena de Indias: Transcaribe
- Cúcuta: Metrobus (Cúcuta)

## **Costa Rica**

San José Periférica

## **Ecuador**

- Guayaquil: Metrovía
- Quito: Metrobus-Q

## **Estados Unidos de América**

- Boston: La línea plata de la Autoridad de Transporte de la Bahía de Massachusetts (MBTA)
- Los Ángeles: Las líneas naranja y plata de la Autoridad de Transporte Metropolitano del Condado de Los Ángeles



Autobús de la Línea Naranja en el Valle de San Fernando en Los Ángeles



Bus articulado troncal de Transantiago **401**, en la estación de traspaso Escuela Militar, Santiago de Chile.

## Guatemala

- Ciudad de Guatemala: TransMetro

## México

- Ciudad de México: Metrobús
- Monterrey: Transmetro
- León: Sistema Integrado de Transporte Optibús
- UNAM: Sistema de Transporte Interno en Ciudad Universitaria
- Guadalajara: Macrobus (en construcción)

## Perú

- Lima: El Metropolitano (en construcción)
- Arequipa: Sistema Integrado de Transporte Público (en proyecto)

## Venezuela

- Barquisimeto: Transbarca
- Caracas: BusCaracas (en construcción)
- Mérida: Trolmérida

## Autobús de tránsito rápido en Europa

### España

- Castellón: TVRCas
- Madrid: Metrobús (en construcción)

## Véase también

- Metro (ferrocarril)
- Tranvía
- Autobús

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