



## BRT Lines with overtaking lanes (Curitiba, Brazil)

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### The Project:

The BRT system in Curitiba is highly regarded; the way in which the city has integrated public transport with land use planning has led to a high capacity, efficient bus network throughout the city. However, some major trunk lines on the BRT network have suffered in recent years, due to the lack of space available for buses to overtake each other at BRT stations, which had led to a queue of buses forming, and hence delays. This was especially relevant on trunk routes where 'express' services which only stop at certain stations operated. Similar problems have also been encountered on other BRT systems (e.g. Istanbul Metrobus), where the queue of buses can lead to significant disruptions to the service.

Therefore, overtaking places at BRT stations on several routes have been developed, including the Green Line (Linha Verde) and the Boqueirão Corridor, the former of which incorporated such a design into the initial design phase of the route. An example of a passing place can be seen in the photograph.

### Current successes/problems

The upgrade of the existing Boqueirão Corridor led to a significant increase in capacity, whilst also increasing the average commercial speed of the buses. This has also allowed for a greater proportion of express and 'semi-express' services, helping to provide a BRT service that sufficiently meets the requirements of the travelling public.

