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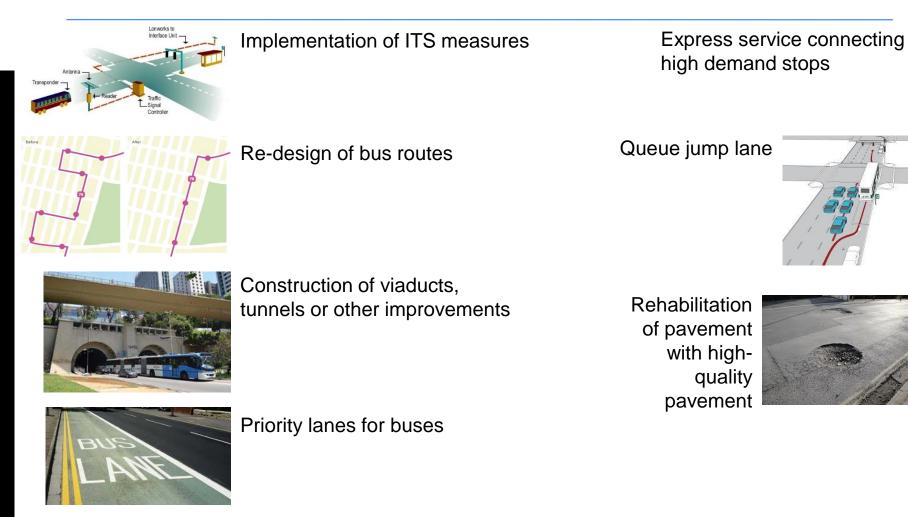
# AMS-III.xx: Efficient Operation of Public Transportation

CDM EB 102 Bonn, Germany, 25 to 28 March 2019



UNFCCC Secretariat SDM programme

## **Types of projects covered**





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#### Background

- EB 89: concept note to develop new top-down methodologies in transport sector;
- MP 76: draft methodology recommended
- EB 100: draft methodology considered
- EB 101: considered the draft methodology and requested MP to revise to:
  - include simplified methods to reflect the secondary effects on the baseline during the crediting period;
    - whether total VKM is an appropriate indicator.



#### **Purpose**

The purpose is to address the concerns expressed by the Board at EB 101.



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## **Key issues and proposed solutions**

Previous version	Issue	Current Version
Emission reductions adjusted by the ratio of Vehicle Kilometers (VKM) in year y and year 1	Monitoring of VKM would add significant monitoring burden to the project	Emission reductions adjusted by the ratio of specific energy consumed per passenger kilometer in the baseline and in year 1 based on a campaign. An alternate option to use literature sources to establish the ratio is also included



## **Key issues and proposed solutions**

- Emission reductions in each route:
  - Passenger-kilometer (P<sub>k,y</sub>);
  - Average distance travelled by passengers (AVD<sub>PKM,k,y</sub>);
  - CO<sub>2</sub> emission factor per passenger-kilometer (EF<sub>CO2,PKM,k,y</sub>);
  - Emission Reduction factor (*ERF<sub>k</sub>*).

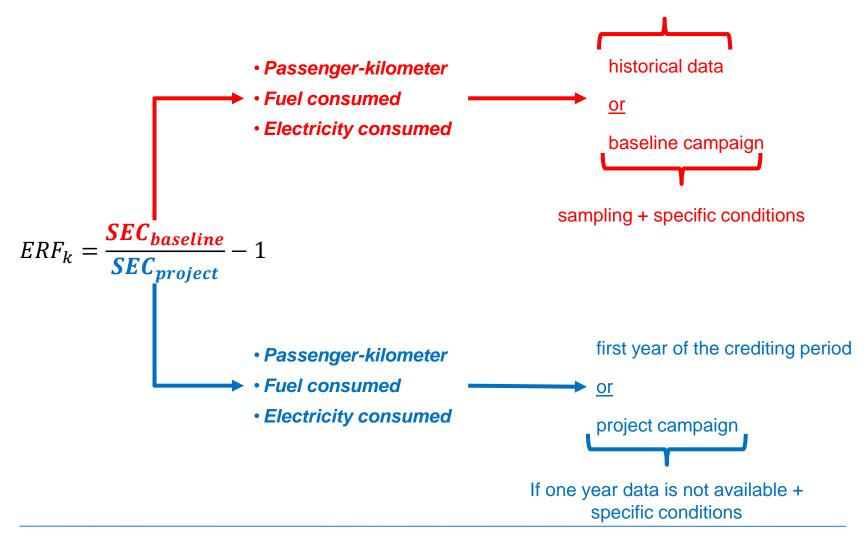
$$ER_{y} = \sum_{k} P_{k,y} \times AVD_{k,y} \times EF_{CO2,PKM,k,y} \times EF_{k}$$
  
a) Measurements (baseline and project)  
b) Literature, reports, studies



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## **Key issues and proposed solutions**







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#### **Applicability Conditions**

- The data to determine specific energy consumed (SEC) in baseline and project is from the same cohort of buses from which Emission Reduction Factor (*ERF*) was calculated;
- Measures impacting the occupancy of buses shall not be implemented before the SEC in the project route is determined.
- Buses may be replaced by more efficient buses or by buses with a higher capacity;
- Not applicable to projects implementing a new BRT or expanding an existing BRT by creating new lanes.



#### Impacts

The proposed new methodology will broaden the portfolio of methodological standards in the area of transport.



The MP recommends that the Board to approve the methodology.

