GLOBAL FUTURE CITIES PROGRAMME

The programme aims to promote smart city solutions in Belo Horizonte, by implementing an Intelligent Mobility Solution (IMS) that will allow the city to understand the needs and mobility patterns of the population to offer a better service, focused on accessibility, gender sensitivity and social inclusion.

GREAT For PARTNERSHI

OBJECTIVES

- Recommend and support the implementation of an Intelligent Mobility Solution integrated into the current system of Belo Horizonte;
- Identify and map the gaps and areas of opportunities for IMS in the current and future mobility system;
- Provide a comprehensive plan to roll out an Intelligent Mobility in Expresso Amazonas, including goals to be achieved and an action plan;
- Provide a business model for stakeholders;
- Provide capacity building related to intelligent mobility; and
- Provide a stakeholder engagement plan to ensure public acceptance of the proposed solutions.

EXPECTED RESULTS

- Improve the quality of service for public transport users:
 - ✓ Better connectivity and reliability of the public transport system;
 - ✓ Improvements to the level of service to be more transparent, safe, accessible and inclusive (especially for low-income passengers, women, elderly and people with disabilities); and
 - Reduction in travel time and shorter waiting times.
- More efficient operations of the public transport sector:
 - ✓ Enhance the efficiency of public transport operations by better matching demand and supply;
 - ✓ Improve the integration and inter-modality of different types of mobility through ITS supported systems; and
 - Reduction in transport externalities such as local air pollutants and GHG emissions, noise pollution and energy consumption.
- Improve urban planning, enhanced market, promote innovation in the government and economy in general:
 - ✓ Improve the efficiency and cost-effectiveness of the transport of both people and goods;
 - Enhance the adoption of Transit-Oriented Development (TOD) mechanisms; and
 - ✓ The generation of a database to validate the BH New Master Plan guidelines.

Time Line and Deliverables

March
Deliverable 10. Funding Sources Assessment

Milestone 1 Milestone 2 Milestone 3 Milestone 4 Milestone 5 Milestone 6 Milestone 7 Milestone 8 Milestone 9

2020 2021 2022

OVERALL OUTPUTS

- City Diagnostic report on data lifecycle, human resources and public transport operation and plans:
- Analysis Report of Gaps and Opportunities for IMS within the current mobility system;
- Intelligent Mobility in Expresso Amazonas Plan and Action Plan;
- Framework of intelligent mobility technologies alternatives;
- Engagement Missions UK-Brazil;
- Launch a call for proposals for technological alternatives to the status quo;
- Pilot monitoring and evaluation of technological alternatives;
- Recommendation and scalability of the Intelligent Mobility Solution (IMS);
- Business model;
- Stakeholder engagement plan;
- Support the bid process; and
- Implementation Plan for an integrated Intelligent Mobility Solution for Expresso Amazonas.

DELIVERABLE

D10. Funding Sources
Assessment



Steering Committee
and Meetings of Sprint
Review and Planning
Held

19

Credit line sources and
opportunities were
evaluated

31

Reports, websites and
sources of information
used in the final

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Time Line and Deliverables

Task 3.1: Pilot Monitoring and Evaluation

Milestone 1 Milestone 2 Milestone 3 Milestone 4 Milestone 5 Milestone 6 Milestone 7 Milestone 8 Milestone 9

2020 2021 2022

OVERALL OUTPUTS

- Development of Proof of Concepts (PoC) of possible intelligent mobility solutions;
- Elucidation of results, difficulties and learnings from the PoC, considering the current Belo Horizonte infrastructure;
- Suppliers' recommendations to the future;
- Introduction of three different possibilities for the future, considering camera upgrades, modification and maintenance scenarios, its benefits and disadvantages.

DELIVERABLE

Task 3.1: Pilot Monitoring and Evaluation

Task Concluded

4

Solutions Monitored in the PoCs

1

Additional Solution tested in the PoC

Steering Committee and Meetings of Sprint Review and Planning Held

2

Meetings with BHTrans and suppliers to present PoC Results

to talk about

Expresso Amazonas

the Viability
Assessment

5

Aspects considered
for the PoC analysis

6

Technical indicators
evaluated

351