CALL FOR PAPERS

TUMI Data – Data for sustainable mobility

Academic research in mobility and urban planning using data technology

I – Context

The challenge of data applied to transport is immense. Approximately 35% of the world's largest cities and 92% of low- and middle-income cities do not have comprehensive maps for transportation and land uses. (World Bank 2021).

Harnessing the power of more accurate data from conceptualization to implementation through collection, planning, and monitoring, supports transformational change in the transportation sector by enabling data-driven decision-making. Data constraints can be overcome with the use of satellite images, remote sensing, machine learning and computer vision methodologies. These advances in data and technology create new opportunities to work on evaluating large infrastructure investments and making public policy decisions.

The continuous discoveries and availability of data through new collection technologies open a space for innovative research and its applications in the global development of the transportation sector. Along these lines, development banks and cooperation agencies began to identify these new ways of responding to the challenges of public policies in a systematic, economical and transparent manner.

Through the use and valorization of mobility data, CAF – the Development Bank of Latin America and TUMI – Transformative Urban Mobility Initiative joined forces to carry out the "TUMI Data - Data for sustainable mobility" Project in order to enable the digital transformation of urban mobility in an environmentally friendly way, to create clean, inclusive, sustainable and livable cities.

II – General objective

Through this call we seek to finance up to three academic research papers that focus on new and innovative data collection methodologies and make use of reliable

data from different recognized sources, to build knowledge on sustainable mobility for the cities of Latin America and the Caribbean.

III – Topics and requirements applicable to research proposals

In line with the proposed objectives, we present a **non-exhaustive list** of topics of interest for this call, assuming that a transversal analysis that implies the use of data either in the operation of a transport service/system or in the analysis/monitoring carried out by whoever is investigating, will be applied:

- Urban mobility and accessibility in informal areas
- Land use planning and socio-spatial equity
- Public transport
- Active mobility, micro-mobility and pedestrians
- Transit Oriented Development (TOD)
- Mobile applications for mobility
- Equity in the use of public space
- Behavior change in transportation decisions
- Sustainable transport

Only will be evaluated proposals that present evidence for metropolitan areas or cities in Latin America and the Caribbean, and the ones that demonstrate the use of efficient methods to collect data through digital tools (ie. satellite, GPS, cell phones, and other digital sources). This call is oriented to academic research without losing sight of the practical needs for public policy decisions. Additional points will be granted to proposals that have an impact on relevant issues, such as gender and diversity, informal areas, vulnerable populations, and the climate crisis.

Language: English (preferred) or Spanish.

IV – Budget

A **maximum of three grants will be awarded.** The selected proposals will each receive up to **Euros 14,000** (fourteen thousand euros) to carry out their project. The amount will be transferred under a single consulting fee contract in favor of

the research team or institution. It is not necessary to submit a budget with the research proposal.

V – How to apply

To apply, you **must complete this online form (English) (Spanish) before 29 May 2022 at 11:59 p.m.** (Buenos Aires). The following information must be uploaded in the different sections of the form:

(i)   Research proposal: describe the **question, methodology and data** to be used. The clarity in the approach to the research question, the suitability and innovation of the methodology and data, and the empirical strategy to answer it within the deadlines will be particularly evaluated. The focus on topics that are of interest to the decision-makers from Latin American cities, as well as those that have implications for public policies will be highly valued. [**maximum 1000 words**]

(ii)   Timeline: indicate the general schedule of activities. The project must be adjusted to the deadlines described in VI. [**maximum 200 words**]

(iii)   Team composition: list the members of the research team, including name, surname, affiliation and email.

(iv)   CV of the principal investigator: upload the CV file or add a link to your page or bio (linkedin, researchgate or university website, among others).

The same research team may submit up to three proposals for this call. Each proposal will be evaluated independently. More than one proposal per team may be selected.

VI – Activities, deliverables and deadlines

To develop the project, the winning proposals will have a period of **four months and a half** from the announcement of the awarded funds. In that period, the selected teams commit to the following activities and deadlines:

| 29-May-2022 | Reception of proposals. |

15-June-2022	Notification to the winning proposals.
15-Ago-2022	**Presentation of research progress**
13-Oct-2022	**First draft** with preliminary results.
14-Nov-2022	**Presentation of the first draft** as part of an academic workshop that CAF will organize virtually (to be defined).
9-Dic-2022	**Final version of the paper** which will consist of a **research article** that summarizes the main findings plus a **summary document** of a maximum 3 pages in **Spanish**. The final version of the article will be published in CAF's Working Document Series and in the products for analysis section of the Mobility Data Hub, without prejudice to the authors' right to publish it in other spaces such as academic journals. The article must follow a specific delivery format that will be shared by CAF with the selected teams.

VII – Jury

The jury will be the Academic Advisory Board of the Mobility Data Hub: Jan Wegner[1], Katherine Hay[2], Daniel Rodríguez[3], Juan José Mendez[4], and whoever they deem necessary.

VIII – Contact

For inquiries regarding the documentation, please contact us to dcs@caf.com .

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[1] Director of PhD graduate school "Data Science" and Associate Professorship in "Data Science for Sciences", Institute for Computational Science, University of Zurich.

[2] Distinguished Fellow in Gender Equity and Health and Senior Strategy advisor, University of California San Diego (UCSD).

[3] Chancellor's Professor of City and Regional Planning and Associate Director of the Institute for Transportation Studies, University of Berkeley. Faculty fellow of the Lincoln Institute for Land Policy.

[4] Strategic Government Advisor to the City of Buenos Aires, former Secretary of Transportation and Public Works and former Chief of Staff of the Undersecretary of Transportation, Buenos Aires.