



## Differentially Private Mechanisms for Publication of Establishment-Level Data

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Brazil, like many countries, is reluctant to publish businesslevel data, because of legitimate concerns about the establishments' confidentiality. A trusted data curator can increase the utility of data, while managing the risk to establishments, either by releasing synthetic data, or by infusing noise into published statistics. This paper will apply newly-developed differentially private mechanisms to establishment-level statistics computed from Brazilian employer-employee matched data. The article describes the trade-offs between the accuracy of the published statistics, and the privacy loss to the establishments in the database. Note that this article will only explore and characterize the feasibility of these publication strategies, and will not directly result in the publication of any data.

**Keywords:** Brazilian data; noise infusion; differential privacy; disclosure avoidance