Official Statistics Production in Time of Crisis (Covid-19)

Abstract:

The Covid-19 outbreak disease poses a huge challenge to the worldwide economy and how people carry out their daily activities. At the same time, the crisis also rises various innovations to keep the sustainability of diverse business processes, including how Statistics Indonesia (BPS) produces official statistics. Collecting data through direct interviews, which was almost impossible at the beginning of the pandemic, forced BPS to invent various data innovations, especially methodologies in data collection and processing. 2020 Population Census, for example, which is carried out within the implementation of the lock-down policy period, encourages BPS to optimize Computer-Assisted Web Interviewing (CAWI) approach. By using CAWI, Indonesian residents can fill their own data in the provided census website. In addition, alternative data sources utilizations are other focus carried out by BPS, such as take the advantage of Big Data and Artificial Intelligence. Some cases that has been done by BPS are the use of Mobile Positioning Data (MPD) for tourism statistics and mobility statistics, the use of satellite imagery in agricultural statistics, and night-time light imagery for predicting poverty indicator. This paper will explain how BPS innovates in producing official statistics during pandemic, including its quality assurance.