



## Real Time Data Platform as a Monitoring Tool for Central Bank of Turkey

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### Abstract:

Providing more complete, timely and granular information as a complement to traditional macroeconomic indicators is important to strengthen analysis for decision-making. This paper reviews the building of real time data platform as a monitoring tool for Central Bank of Turkey (CBRT) with a well-established data streaming process. This process contains all necessary components to enable CBRT to integrate data for advanced analysis. High frequency raw data collected in real time from multiple data providers, cleaned, processed, matched and stored safely with other financial and non-financial CBRT data thanks to the data highway established on big data platform. Decision makers in CBRT can benefit from this enhanced data by visualization tools. These visualization tools link all the necessary information to overview market conditions via customized dashboards. This provide some real time alerts that we share examples of that in this paper such as detecting abnormal credit payment behaviors, early loan pay-offs, cryptocurrency trading, inefficient distribution of credit supports to exporter firms, cash flow problems and related payment transactions of sectors with high foreign exchange debt.

### Keywords:

Big data, central banks, real time data, data streaming process, real time alerts