1. Title
Impact of COVID-19 on structural changes in the industrial sectors of countries rich in natural resources: the case of Kazakhstan.

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3. Abstract
The impact of events related to the spread of the COVID-19 virus on institutional reforms and economic growth in resource-rich countries will be investigated. Elements of structural changes in the technological development of the mining and metallurgical industries of Kazakhstan and their impact on the dynamics of macroeconomic indicators of the national economy will be assessed taking into account the influence of COVID-19. A mathematical model of the impact of structural transformations of industry, which occurred due to COVID-19, on macroeconomic indicators of the country’s economy will be developed. Technological shifts in the mining and metallurgical sectors of Kazakhstan in the light of events related to COVID-19 will be forecasted.

4. Data description
The time series of the main Kazakhstani macroeconomic indicators are presented on the website of Kazstat (state statistics service). Monetary indicators and exchange rates can be found on the website of the National Bank of the Republic of Kazakhstan. The Russian section of the large international database Bureau Van Dijk RUSLANA contains data on Russian, Ukrainian, and Kazakhstani companies. SPARK enterprises database is a database of Russian, Ukrainian, and Kazakhstani industries. To compare enterprises from different countries, the database of the European Bank for Reconstruction and Business Environment and Enterprise Performance Survey (BEEPS) can be used. The up-to-date data can be obtained from the study of the websites of the enterprises of the mining and metallurgical sectors by the webometric method. This method consists in calculating the frequency of use of keywords, for example, “Covid-19”, “staff reductions”, “technical changes”, or the frequency of their joint use at different time periods. This makes it possible to draw conclusions about the development trends of the situation and the impact on the state of the enterprise of various factors. Comparison of the results on the websites of various enterprises makes it possible to monitor changes in the sector and to rank enterprises according to the degree of exposure to these factors. Along with a questionnaire survey of experts in these sectors and operational statistics from the national statistical office, webometric data will constitute the backbone of the data for the study.

5. JEL codes for the project:
C81, D43, L52, L72, O18, O47, Q32, R10

6. Key words:
COVID-19, natural resources, structural changes, technological changes, webometrics.