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### **Disaggregation and nowcasting of regional GDP dynamics in Poland**

Conducting the efficient regional economic policy requires accurate and up-to-date information on the level of economic activity. In Poland, the data on regional GDP dynamics is published only once a year with a substantial delay which makes it difficult to use them for policy design and monitoring. In this study, we propose a method for disaggregation and nowcasting the unknown quarterly growth rates of regional GDP. The disaggregation procedure employs a smoothing algorithm that uses the available annual data on regional GDP dynamics as well as the quarterly GDP growth rates at the country level. For nowcasting, we utilize several additional higher-frequency economic indicators that are available at regional level. We consider a few different sets of indicators and estimation procedures that are subsequently evaluated using the ex-post accuracy measures. However, because of the short time series it is difficult to create a clear ranking of the analysed approaches.

**Keywords:** regional GDP, disaggregation, forecasting