

## **Abstrakt**

**mgr Anna Drabina**

The topic of international cooperation and the internationalization of higher education is becoming increasingly popular. Processes related to globalization, as well as economic requirements, with an emphasis on the development of a knowledge-based economy, have created conditions for the development of activities in the field of international cooperation of higher education institutions. This dissertation discusses the issue of international research cooperation, referring to the patterns of cooperation of international consortia within the projects funded by the Horizon 2020 program in the years 2014-2020.

The methodological part of the work includes a description of the developed research methodology aimed at studying the level of development of project activity, assessing the role of individual units involved in the implementation of such projects, and evaluating the impact of project activities on the scientific achievements of European higher education institutions. The developed research methodology uses tools of statistical description, network analysis based on graph theory, and decision networks (Bayesian networks). The empirical part of the work includes the presentation of the results of own research. The conducted analyses concerned the description of project activity within the Horizon 2020 program in the years 2014-2020 and the identification of networks of connections between variables describing project and scientific activities.

The research work was preceded by literature studies, which included works on higher education institutions, their activities in the field of research project implementation, scientific productivity, internationalization of scientific activities, and analytical methods and tools used in research implementation.

The first three chapters present issues that form the theoretical basis of the work. The first chapter attempts to define the concept of internationalization. The second chapter presents the definition of scientific productivity and also provides a characterization of the determinants of the scientific development of European universities. The impact of international cooperation on scientific productivity is also described.

The third chapter contains a characterization of the development of international research cooperation of European higher education institutions and a description of the specifics of Polish institutions in this regard.

The fourth chapter constitutes the methodological part of the work. The research approach is aimed at studying the level of development of project activity, assessing the role of units involved in the implementation of such projects, and evaluating the impact of project activities on the scientific achievements of European higher education institutions.

In the fifth chapter, an analysis of the activities of institutions participating in the Horizon 2020 program in the years 2014-2020 is carried out, focusing on their international cooperation within consortia. The studied institutions come from all countries that were members of the European Union during the previous framework program. The analysis was conducted based on data from the official European data portal ([data.europa.eu](http://data.europa.eu)), from the CORDIS dataset - EU research projects under the Horizon 2020 program (2014-2020).