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The FinTech sector is characterized by many innovative solutions, meeting the changing expectations of consumers. Banks, on the other hand, are much less flexible in this area. Banks' offerings include only some of the cutting-edge technological solutions among FinTechs' product proposals. The banking sector and the FinTech sector have many things in common. One of them is the scale of the costs required to implement innovations. The operational activities of FinTech companies are mainly focused on advanced IT architecture. In contrast to FinTechs, banks still have an extensive branch network that is one of the main distribution channels for banking products and services.

The purpose of the dissertation was to assess the impact of the FinTech sector on the profitability and stability of the banking market in European countries. The layout of the work, consisting of six chapters, corresponded to the set problems of the dissertation. The first chapter characterized innovations in the banking market, pointing out the prosperous innovations offered by the bank. It also reviewed FinTech companies in each European country and identified the areas of activity of FinTech companies. The second chapter compares the level of innovation of European Union countries. The author's FSI index of technological sophistication was presented. Chapter three undertook a review and detailed analysis of the business models of banks and FinTechs. Possible areas of cooperation between banks and FinTechs were identified. Chapter four provides an overview of the most important legal and supervisory regulations towards the FinTech sector. The chapter also identifies Polish legal regulations that set the legal framework for the activities of entities in the FinTech market. The fifth chapter provides a detailed analysis of factors affecting the stability of the banking market. The sixth chapter performed empirical research. The chapter analyzed the degree of development of the FinTech sector. Measures describing the degree of fintechization of European countries were used. Pearson linear correlation and linear regression analysis of selected indicators of profitability and stability of the banking sector were also performed. In the sixth chapter, a dynamic analysis of measures of profitability and stability of the banking sector was also performed.

Based on the conducted research, it has been shown that the development of the FinTech sector may have a positive impact on the profitability of the banking sector, however, there is a threat to maintaining and further strengthening the stability of the banking sector.