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Summary of the Doctoral Dissertation

## **Transfer of technology in food processing industry companies – conditions, models**

The work was written in Department of Entrepreneurship and Industrial Policy under the supervision of Professor Edward Stawasz

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Technology transfer, in its definition, includes all forms of diffusion of innovation and technology knowledge, generally it is market process, which takes place in spheres of research, science and production. Transfer of technology occurs in the business sphere between companies and on the border of relation: inventors – entrepreneurs. In different configuration of this process we can assume partnership of research and scientific institutions, other companies, public institutions and individuals. It's very complex, interactive process depending on many factors such as technical, economical, organizational and the factors related to the market.

The subject of this dissertation is the process of technology transfer in food industry companies. In this type of industry, technology transfer process is very complex and requires specific, sectorial, undertakings and forms of support.

The inspiration for provided research in this subject was conception, that technology transfer is a main factor related to economic growth, and its choosing has the crucial meaning for company's development, apart from its organizational form and the scale of activity.

Irrespectively from the kind of manufactured product and its destination, about the opportunity of achieving competitive advantage by company, decides: intangible resources, such as those related to environment network connections, access to the new production sources, regional brand or material resources as i.e. modern production equipment, packaging, storage and preservation or transport.

In this thesis, apart from wide literature studies and secondary research of statistic data from regional and national statistical offices, in the empirical part of this work, the author used a series of primary data obtained in research made for the Marshal Office of the Lodz Region project *“Stworzenie narzędzi do monitorowania innowacyjności regionu łódzkiego, z wykorzystaniem procesu przedsiębiorczego odkrywania na potrzeby aktualizacji RIS LORIS 2030”* (Creation of tools to monitor the innovation of Lodz Region, using entrepreneurial discovery process for actualization of RIS LORIS 2030 ).

Author was a member of the research team and he conducted 25 individual interviews which became a constituting base of primary data used in empirical part of this dissertation. Author also has taken part in a group interview (smart lab) which was provided to establish prospects for food industry development in region.

For the purposes of achieving the objectives of this dissertation, author also has included research based on the interview of 120 regional food processing companies what was also a part of mentioned project. It constituted the starting point for searching of generalized judgments, laws and rules in the economy based on the case analysis methods. The results were the assumptions of technology transfer model of food production companies, which has integrated subsequent phases of research process of technology with the phases of production readiness and their relation to the process of invention in the terms of technology selection and its commercialization as well as partnership with scientific and business environment.

The analysis of research results and relation between presented model of integration of technology and organizational process of technology transfer in food production industry, and the conditions in which those companies prosper in region of Lodz, where the base to form conclusions. These conclusions are the answer for posed research questions and are the basis for the research thesis verification.

