Summary

The habilitation thesis with the title "*Transformational economics - growth, resilience and sustainability achieved through the automation of the decision-making process and applied governance*" outlines the main scientific and didactic achievements obtained after obtaining the title of Doctor of Economics.

The first section of the habilitation thesis outlines part of the scientific research directions followed after the completion of the doctoral studies, among others partially based on the postdoctoral research "*Big Data Synergy - Business Intelligence. The solution for building relevant indicators for an emerging economy*", but also on the research resulting from the institutional project of the Faculty of Theoretical and Applied Economics of ASE Bucharest, entitled "*Socio-economic effects of the COVID-19 pandemic on the Romanian economy*", with the Ministry of Public Finance as beneficiary. In addition to these two projects, after the completion of the PhD programme there is also the publication of 10 books as an author or co-author and more than 150 articles of articles indexed in international databases, including Web of Science, in addition to which the participation as a speaker at more than 180 international academic or business conferences.

The first section of the habilitation thesis represents a synthesis of the research carried out in three major directions, but each of them having two parts touching the same problem, but from different approaches. Thus, it starts from the analysis of income inequality through the prism of the evaluation of the institutional specifics and the achievement of economic growth in the European Union, it continues with a data mining analysis on the effects of the COVID-19 pandemic and the new type of economic growth generated and finally the process is opened towards the evolution of the novelty generated by Human - Artificial Intelligence interaction and development models based on principles of corporate governance applied at the state level, but also on the construction of a model that simulates a modern national economy, elements started as research within the doctoral programme, but which evolved towards its ninth version for the informational flow proposed within the habilitation thesis, an element that outlines, together with the research undertaken in the last 10 years, a perspective that can be outlined under the concept of transformational economy.

The first chapter, entitled "*Analysis of income inequality through the lens of the evaluation of institutional specificities and economic growth generated within the European Union*" is divided into two parts. The first part shows that at the European level, the EU promotes income growth in areas with relatively low labor efficiency (paradoxically measured by the resulting effects, i.e. low wages, with arguments of the vicious circle from a theoretical perspective in

productivity models), and on on the other hand, it promotes the effects of moral hazard on the efficiency of economic agents. The second part examines income inequality for EU-wide growth, focusing on reviewing income inequality in EU Member States and examining its drivers, as the atypical economic and financial crisis has increased the social challenges for European citizens. In particular, this phenomenon has been covered from an economic, social and institutional perspective.

The second chapter, "*The concept of telework - a data mining analysis on the effects of the COVID-19 pandemic and the developed economic growth model*" is composed of two parts, the first part addresses the data mining testing of the effects of the COVID-19 pandemic on the economy at the EU level and nuances the (r)evolution of telework and the second part draws the component of economic growth as the model generated by telework, thus validating the functional components of work carried out in times of economic and social upheaval.

The third chapter, entitled "*Transformational economics - using corporate governance, Artificial Intelligence and decision-making automation to generate sustainable and resilient development*" is divided into two parts, the first discusses the concept of corporate governance as a foundation for a socio-economic model sustainable at the state level and outlines functional principles to follow, and the second part debates a technical representation of the efficiency of the first part, namely the generation of governmental resilience through the use of macroeconomic data flows, Artificial Intelligence and the automation of the decision process, the explanation of the functionality being given by the use of an algorithm in the form of an economic performance indicator called B.A.D.E.M., an indicator that has outperformed the main global stock markets for more than 11 years.

The three chapters cumulatively generate an introduction to the new field of transformational economics with the role of generating a complete *theme built as a mechanism part of the economy of the future and transforming the traditional towards the modernity of the 21st century and the next 30 years of new type development, based on information, speed and automatic decision processing in the desire to improve the standard of living and create sustainability and resilience in the economy.*

The second section of the habilitation thesis is built on the idea of identifying and presenting arguments that highlight the ability to coordinate research teams, to approach new ways and new methods of interdisciplinary research, to organize and manage didactic activities. This part includes the university career development plan that starts from own achievements and outlines objectives for the next period, two directions being strengthened: the didactic activity and the scientific research activity, as well as the ways of harmonizing them.