

BUCHAREST UNIVERSITY OF ECONOMIC STUDIES



Doctoral School Cybernetics and Economics Statistics

Title of the doctoral thesis:

**QUANTITATIVE ANALYSIS OF THE INTERDEPENDENCIES BETWEEN
DIGITAL INNOVATION IN HEALTH AND SUSTAINABLE AND
INCLUSIVE DEVELOPMENT**

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Keywords: Health, Digitalization, Sustainable development, Public policies, Panel data regression, Clustering, Innovation, Performance, European Union, Resilience

Summary

Health is closely related to the level of development of a state or region and it is a key element for the sustainable growth and development of a population. Whilst efforts to address inequalities and limitations that prevent the achievement of equity are of major importance, policy coherence for sustainable development becomes paramount.

In this context, the aim of the current research is to highlight the connection between digitalization of health and sustainable development, as well as to outline the elements influencing the population's state of health and those that ensure digital progress within an economy. The objectives of the research were the following: identify the level of digitalization of health systems at both global and European level; identify the current situation of the digitalization of the health system in Romania and related public policies, as well as making a comparison with other states; analyze the role of health innovations; analyze the two-way relationship between digital innovation in health and sustainable and inclusive development.

The analyzes carried out demonstrate significant interdependencies between digitization, health and sustainable development. The results highlight the fact that improvements in digitalization and sustainable development contribute to increase in the health level of the population in the European Union member states. The study confirms that a good state of health contributes to a higher level of sustainable development, highlighting the bidirectional relationship between the two dimensions. These findings underline the need to integrate both digitalization and sustainability policies into the public health strategy. The regression models highlight the crucial role of digitalization in improving health, facilitating the adoption of healthy practices and making health systems more efficient.

The creation of a composite health and sustainability performance index allowed a comprehensive assessment of the performance of the European Union countries in terms of health, digitalization and sustainability, while illustrating the relevance and utility of the index as a tool for measuring the multidimensional progress of countries. The paper emphasizes the need for an integrated perspective in policy formulation, highlighting the synergistic role of health and digitalization in improving the overall quality of life and promoting balanced and sustainable economic development.



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ECONOMIC ANALYST RENAULT SERVICES ROUMANIE

- Calculating upstream costs for logistic requests received from Purchasing Department, as a result of the modification of the initial transport flow, in order to establish the global impact on the upstream logistics cost.
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INTERN - SUSTAINABLE DEVELOPMENT DEPARTMENT ROMANIAN GOVERNMENT

- I contributed to the revision of the National Strategy for Sustainable Development.
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Mother tongue(s): **ROMANIAN**

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| ENGLISH | C1 | C1 | C1 | C1 | C1 |
| FRENCH | C1 | C1 | C1 | C1 | C1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

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Microsoft Office: proficient user of Word, Excel and Powerpoint | Organizational and planning skill | Problem solving person | Good listener and coomuncator

● PUBLICATIONS

2020

Digital innovation in the health sector - a determinant of health status. Records in the EU

New Trends in Sustainable Business and Consumption, 2020

Link https://www.researchgate.net/profile/Bassel-Diab/publication/342124082_BASIQ_2020_Conference_proceedings/links/5ee37056458515814a583fe1/BASIQ-2020-Conference-proceedings.pdf#page=579

2021

The impact of digitization on economy in the context of the Coronavirus pandemic

SHS Web of Conferences, 2021

Link <https://search.proquest.com/openview/19ab08d97869c85c1162c27c6279026f/1?pq-origsite=gscholar&cbl=2040545>