



REVIEW

on a dissertation work for the acquisition of the educational and scientific degree "doctor" (PhD), Field of higher education: 3. Social, economic and legal sciences, Professional field: 3.8. Economics, Scientific specialty "Organization and management (agriculture and sub-sectors)"

Author of the dissertation:

MARIA DUKOSKA

self-study doctoral student at the Department of Management and Marketing
at the Agricultural University - Plovdiv

Topic of the PhD thesis:

**SUSTAINABLE DEVELOPMENT OF VITICULTURE IN NORTHERN
MACEDONIA**

Member of the Scientific Jury:

Assoc. Prof. Ekaterina Dimitrova Kyuskieva-Arabska, Ph.D.

University of agribusiness and rural development – Plovdiv, Bulgaria
Висше училище по агробизнес и развитие на регионите – Пловдив

Field of higher education: 3. Social, economic and legal sciences,
Professional field: 3.7. Administration and management

Assoc. Prof. in Scientific specialty "Social Management"

PhD: 1) Organization and management in production (industry); 2) Organization and
management outside the field of material production (security and defense)

appointed a member of the scientific jury with
Order № RD-16-794 / 07.10.2020 by the Rector of the Agricultural university

1. Topicality of the problem

The dissertation presented for an opinion examines the very topical issue for the development of viticulture in Northern Macedonia in the context of sustainability and sustainable development and the main directions of the EU Common Agricultural Policy. Special attention is paid to the focus on sustainable agriculture, environmental protection and improving the quality of life in general. In this regard, the conceptual thesis is formulated and defended that the use of the approach of sustainable development of viticulture guarantees the achievement of sustainable competitive positions of the sector in the future.

2. Purpose, tasks, hypotheses and research methods

The aim of the study is to assess the main factors determining the sustainable development of viticulture in the Republic of Northern Macedonia, and to identify opportunities for sustainable development of the sector in the future.

Achieving the goal is sought by solving the following tasks: 1) clarifying the nature and content of the approach to sustainable development of viticulture as a management approach; 2) development of methodological approaches and methodology for studying the factors determining the sustainable development of viticulture; 3) analysis and assessment of the main factors determining the sustainable development of viticulture; 4) determining the opportunities for sustainable development of viticulture in the future.

The methodology for studying sustainability in the sector is based on a holistic approach - a set of economic, environmental, social and institutional factors is considered. The study includes literature review, multi-criteria evaluation, selection of indicators, integration of indicators, field research, data analysis and sustainability assessment. The research methods correspond to the set goal and tasks.

3. Visualization and presentation of the obtained results

The dissertation is presented in the following classical structure: introduction, three chapters and conclusion, literature and an appendix. The total volume is 139 pages. The study is illustrated with 47 figures and tables and an appendix. 10 literature sources are cited.

In general, the good formatting and illustration of the results in figures and tables, the discussion on them and the skillful derivation of summaries are impressive.

4. Visualization and presentation of the obtained results

What makes the strongest impression in the dissertation presented for an opinion is its structure, organized in three logically connected chapters: 1) the principles and paradoxes in considering sustainability in agriculture through the prism of the concept of sustainable development and the organization of research; 2) the assessment of the sustainable development of viticulture in several main pillars in two aspects - legal and regional - environmental friendliness, social responsibility, economic efficiency, institutional efficiency; 3) the overall assessment of the sustainability and opportunities for sustainable development of viticulture in the future.

The analysis of sustainability is made not only by applying an integrated methodology that takes into account the impact of production and management of farms on the environment, social relations, economic indicators and institutional conditions, but it also reveals regional differences, the peculiarities between farms, differentiated by legal status and size. The challenges facing the sector and the opportunities for development are presented. Conclusions and specific recommendations and suggestions for good practices have been made, which would lead to higher sustainability.

The literature sources used correspond to the topic of the research.

5. Contributions of the PhD thesis

I accept the scientific and applied contributions formulated in the abstract to the dissertation as authentic and personal work of the author. I would allow myself to divide them as follows:

Scientific contributions

1. The essence of sustainable development and the sustainability of agriculture, and in particular viticulture, has been clarified.
2. A conceptual framework has been developed to assess the main factors determining the sustainable development of viticulture in Northern Macedonia.

Scientific and applied contributions

3. The sustainability of the wine sector is analyzed and assessed by its individual components (pillars).
4. The needs of the vineyards for their sustainable development in the future have been identified.
5. The possibilities for sustainable development of the sector in the future are determined.

6. Critical remarks and questions

I do not have any critical remarks or questions on the dissertation submitted for an opinion.

7. Published articles and citations

I recommend the doctoral student, together with the supervisor, to look for new opportunities to present at scientific fora and publish in journals with impact factor / impact rank the results of the study.

The presented abstract objectively reflects the structure and the content of the dissertation.

CONCLUSION:

Based on the different research methods learned and applied by the doctoral student, the correctly performed experiments, the summaries and conclusions made, I believe that the presented dissertation meets the requirements of Law for development of the academic staff in the Republic of Bulgaria and the Rules of the Agricultural University for its application, which gives me reason to evaluate it **POSITIVELY**.

I take the liberty of proposing to the esteemed Scientific Jury that it also vote in favor and award **MARIA SACHA DUKOSKA** the educational and scientific degree "**Doctor**" in the scientific specialty "*Organization and Management (Agriculture and Sub-sectors)*".

Date: 06.11.2016
Plovdiv

Reviewer: E. Arabska
(Assoc. Prof. E. Arabska, PhD)