

STATEMENT

on a dissertation for the acquisition of the educational and scientific degree "Doctor" (Ph.D.) in:

Higher Education Area: 5. Technical Sciences

Professional Field: 5.7 Architecture, Civil Engineering and Geodesy

Doctoral Program: Architecture of Buildings, Structures, Facilities and Details

Dissertation Author: Arch. Dipl.-Eng. Stoyan Georgiev Todorov, independent doctoral candidate at the Department of Architecture and Urbanism, Faculty of Architecture, Varna Free University "Chernorizets Hrabar".

Dissertation Topic: "Organizational Models for Building Creation in Bulgaria and Bavaria and the Formation of Professional Tasks for Architects"

Supervisor: Assoc. Prof. Arch. Zhechka Ilieva, PhD.,

Reviewer: Prof. Arch. Orlin Slavchev Davchev, PhD., , University of Architecture, Civil Engineering and Geodesy (UACEG) – Sofia, Higher Education Area 5. "Technical Sciences", Professional Field 5.7 "Architecture, Civil Engineering and Geodesy", Specialty "Synthesis of Architecture with Other Arts, Interior and Architectural Design", appointed as a member of the Scientific Jury by Order No. 338 / June 23, 2026 of the Rector of Varna Free University "Chernorizets Hrabar".

1. General Characteristics and Evaluation of the Candidate's Results and Contributions

• Brief Overview of the Dissertation

The dissertation by Arch. Eng. Stoyan Todorov, entitled "Organizational Models for Building Creation in Bulgaria and Bavaria and the Formation of Professional Tasks for Architects", is an independently conducted, large-scale, interdisciplinary applied research study. The work is structured in two volumes, with Volume 1 comprising over 504 pages (including an introduction, five chapters, a conclusion, a bibliography, and a glossary) and Volume 2 containing 16 specialized appendices. The research data is grounded in an extensive bibliography of 135 sources in Bulgarian, German, English, and Russian, as well as as normative, statistical, and judicial acts.

The conducted research employs a holistic comparative approach between the building cultures and legal-administrative frameworks of Bulgaria and the Free State of Bavaria (Germany). It incorporates theoretical system analyses, qualitative empirical studies (surveys), and an experimental approach—unique to Bulgarian practice—utilizing real administrative and judicial case studies. The Dissertation Summary accurately and comprehensively reflects the structure, content, and main conclusions of the dissertation.

• Evaluation of the Achieved Scientific, Scientific-Applied, and Applied Results

The results achieved by the candidate reveal a deep understanding of the subject

matter and systematically analyze the existing distortions within the construction sector in Bulgaria. I rate extraordinarily high the comparison conducted between Bulgarian and Bavarian practices, which highlights the fundamental difference in the positioning of the architect—while in Bavaria the architect develops as an architect-generalist and a trusted advisor (agent) to the client, in Bulgaria the role is predominantly reduced to that of a designer for the "Architectural" section. A notable result is the detailed formalization and comparison of 5 main models for the implementation of building ventures in Bulgaria and 5 in Bavaria, reflecting the advantages, disadvantages, and conflicts of interest for the individual participants in the process. The scientific-applied results provide a clear picture of the balance between public and private interests and their role in the quality of the built environment.

- **Contributions**

Scientific Novelty: For the first time in domestic architectural theory, objective patterns connecting framework conditions (regulatory framework, administrative, judicial, and business practices), organizational models of design and construction, and the scope of the architect's professional profile are derived and systemized. The genesis of historical metamorphoses in the tasks of architects in Bulgaria and Bavaria from the late 19th century to 2026 is revealed, analyzed through the coordinates of the Vitruvian Triad and the balance between public and private interests.

Enrichment of Existing Knowledge: The dissertation advances knowledge regarding European Union community regulation of liberal professions (Directives 2005/36/EC, 2006/123/EC, and (EU) 2018/958) and the application of criteria from the Davos Baukultur Quality System. The necessity of shifting from restrictive ex-ante control to effective ex-post oversight, alongside a redefinition of roles within the Bulgarian investment process, is convincingly demonstrated.

Practical Application of Scientific Achievements and Realized Economic Effect: Of exceptional practical value is the developed new business process and the creation of a functional web application, ARCHModels (accessible at <http://models.iqvolution.ws>). The tool, based on an algorithm and survey methodology, assists clients in digitally determining the optimal organizational model for their building ventures. The project offers a concrete framework for regulatory and institutional reform in Bulgaria that would generate a direct economic impact by optimizing construction costs, curbing flawed design-build (engineering) practices, and eliminating hidden costs associated with corruption.

- **Evaluation of the Candidate's Contribution to the Scientific Publications on the Dissertation**

The analysis of the scientometric report demonstrates that the candidate meets and significantly exceeds the minimum national requirements for acquiring the educational and scientific degree "Doctor" (Ph.D.). While 30 points are required under Indicator Group "G", Arch. Eng. Stoyan Todorov has presented a total of 180 points. Included are 9 sole-author scientific publications in peer-reviewed journals, proceedings of international conferences, and periodicals (including Architecture journal, Yearbook of Varna Free University "Chernorizets Hrabar", and publications in Germany), as well as 2 realized original architectural projects. The absence of co-authors in the scientific papers explicitly confirms the personal authorship, high level of commitment, and leading role of the

candidate in the conducted research and formulated contributions.

2. Critical Remarks, Notes, and Recommendations

With an overall positive evaluation of the dissertation by Arch. Eng. Stoyan Todorov, several notes and discussion points of a methodological, practical, and technical nature can be addressed:

- **Broad Scope vs. Depth of Research:** The work attempts to accommodate within a large volume (over 500 pages) an excessively broad spectrum of topics—ranging from an in-depth historical regress of the architectural profession since Antiquity, through a detailed comparative-legal analysis of the regulatory frameworks in Bulgaria and Bavaria, to a specific software development project. This over-expansion of scope to some extent dilutes the focus between purely theoretical architectural research and applied software engineering.

- **Publicistic Nuances in Style:** In certain parts of the text, there is a noticeable shift away from a strict academic tone toward publicistic and emotionally charged formulations (for example, when describing administrative practices and the regulatory environment in Bulgaria). For such observations in a dissertation, the use of a more neutral and strictly detached language is recommended.

- **Technological Detail and Data Protection:** Including specific software code (Vue, Inertia.js, etc.) and interface screenshots in the appendices carries the risk of rapid technological obsolescence. Furthermore, when incorporating real documentary sources and visual assets into digital resources, strict compliance with Regulation (EU) 2016/679 (GDPR) requirements regarding the complete anonymization of personal data, signatures, and individual stamps must be ensured.

Recommendations for the Future Development and Implementation of the Results

- **Large-scale Empirical Testing:** It is recommended that the developed beta-version of the ARCHModels software application undergo broader empirical testing (user testing/UX) among real Bulgarian clients, design professionals, and municipal administrations to validate the real-world applicability of the organizational model selection algorithm.

- **Specialization of Publications:** It is recommended that the candidate adapt the derived scientific findings regarding the organization of the investment process into standalone research articles for indexed international journals (Scopus/Web of Science), aimed at promoting these contributions outside the country.

Evaluation of the Impact of the Critical Remarks and Recommendations on the Quality and Quantity of the Obtained Results and Contributions

The made critical notes and recommendations are primarily of a discussional and advisory nature. They in no way diminish the high value, quality, and significance of the achieved scientific, scientific-applied, and practical results. The formulated contributions remain indisputably proven, and the developed dissertation represents a complete, large-scale, and in-depth scientific study with direct practical applicability.

3. Plagiarism Check

In the presented dissertation, its accompanying summary (autoreferat), and the scientific publications of Arch. Eng. Stoyan Todorov, there are no indications of

plagiarism. The obtained scientific, scientific-applied, and practical results, as well as the formulated contributions, are the candidate's personal work, achieved through independent research. The cited external literature and regulatory sources are properly referenced in accordance with academic standards and the Code of Ethics for Scientific Research.

CONCLUSION:

The submitted dissertation possesses all the attributes of a complete scientific study with clear practical applicability. It fully complies with the requirements of the Development of Academic Staff in the Republic of Bulgaria Act (DASRBA) and Regulation No. 12 of Varna Free University "Chernorizets Hrabar".

All of this gives me reason to give my firm **POSITIVE EVALUATION** and to propose to the esteemed Scientific Jury to award Arch. Eng. **Stoyan Georgiev Todorov** the educational and scientific degree of "Doctor" (Ph.D.).

Date: August 22, 2026
Sofia

PREPARED BY:
(Prof. Orlin Davchev)