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**Annex No. 3**

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## **The External Evaluation Report of a Doctoral Study Domain**

Contents

I. Introduction

II. Methods used

III. Analysis of performance indicators

IV. SWOT Analysis

V. Overview of judgments awarded and of the recommendations

VI. Conclusions and general recommendations

VII. Annexes

### **I. Introduction<sup>1</sup>**

In this chapter, the following shall be summarized:

- the context in which this external evaluation report was drafted (**the type of evaluation, the period of the evaluation visit, the composition of the Experts Committee** etc.);

The external evaluation took place in the month of September of 2023. The vast majority of documents was received prior to the meetings described below. On request, other documents were added to complement the information received. A physical visit to the Romanian Academy, in Bucharest, took place on the days 18-20<sup>th</sup> September 2023. During the visit, additional documents were requested and all were made available.

The Geography Evaluation Panel was composed of three people: the coordinator, Prof. Univ. Dr. Sandu Boengiu, from Craiova University, myself, Prof. João Sarmento, from the University of Minho, Portugal, as international expert, and PhD student Sorin Furdu, from the University of Oradea.

- details about the doctoral school(s) of which the doctoral domain under review is part (number of doctoral advisors, number of students, institutional context, short history etc.);
- details about the doctoral study domain under review (number of students, institutional context, short history etc.).

The Institute of Geography of the Romanian Academy, located in Bucharest, has a doctoral school, in the field of Geography, with a history that dates back more than 50 years, that is, to the year of 1968. The

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<sup>1</sup> Each time when applicable the information shall be presented gender-wise.



Institute of Geography of the Romanian Academy awards PhDs in Geography in four main areas: geomorphology, hydrology, climatology and environmental geography.

The principal objectives of the doctoral schools are to train highly qualified specialists for research in the university, pre-university education system and in the administrative and managerial fields.

The Institute of Geography has twenty-seven researchers, twenty-five of which hold a PhD. Twenty are Senior Researchers (levels I, II or III). They take part in examinations and guidance commissions. The Institute of Geography is also responsible for the Centre for the study of natural hazards, located in Pătărlagele, Buzău county.

Presently, the doctoral school has five academic staff. Two have tenure over research positions at the Institute of Geography of the Romanian Academy, and three are associated researchers with pensioner status. From 2023, a third member holds a research position with the habilitation status.

Between 2015/2016 and 2023/2023, eight doctoral theses were defended, three in 2017, one in 2018, two in 2019 and two in 2021 (annex 4.7). At present there are seven PhD students, who started in 2016, 2019 (2), 2020 (2), 2021 and 2022 (annex 4.7).

The doctoral school has offered various courses, among them: Ethics and Academic Integrity; Global Environmental Changes, Natural and Technological Hazards, Geographic Information Systems, Climate Risks, Relief Mapping and Geomorphological Processes. Between 2016 and 2022 the first four were on offer, taught by two people (annex 4.6).

## II. Methods used

This chapter will contain the methods and tools used in the external evaluation process, before and during the evaluation visit, including at least:

Information regarding the self-assessment report, annexes and other documents were analysed previous to the visit.

A 3 day visit was made during 18-20 September.

The Romanian Academy (*Academia Română, Calea Victoriei 125*) was visited, as well as the Institute of Geography (*Institutul de Geografie, Str. D. Racoviță nr. 12*). In the Institute of Geography, a detailed visit was made to the building and to the researchers's offices. Informal conversations were made with several researchers.

Simultaneous translation from Romanian into English was provided by one of the institute members.

Exchanges of information took place with the panel coordinator, Prof. Univ. Dr. Sandu Boengiu, and also with Prof. Monica Dumitrascu, which were key to this report.

- Meeting/Discussions with the school officials of the Doctoral School(s) in which the doctoral study domain under review is operating;  
On Monday, 18.9.2023, from 10:30 to 11:00



- Meeting/Discussions with *the members of the Ethics Commission*, including with the student representatives of these structures

On Monday, 18.8.2023, from 11:45 to 12:15

- Meeting/Discussions with *the members of the Quality Commission*, including with the student representatives of these structures

On Monday, 18.8.2023, from 12:15 to 13:00

- Meeting/discussions with the Directors/ persons in charge of the research centres/laboratories within the doctoral study domain

On Monday, 18.9.2023 between 13:00 and 14:00, we met with Dr. Mihaela Sima, Dr. Bianca Mitrica and Prof. Monica Dumitrascu.

- Meeting/discussions with doctoral students in the doctoral study domain under review;

On Monday, 18.9.2023 between 15:00 and 15:30, we met with two PhD students: Cristina-Maria Cruceru and Odelin Talaba. The meeting was mostly conducted in English.

- Meeting/discussions with the contact person for the doctoral study domain under review;

On Monday, 18.9.2023, between 15:30 and 18:00, we met with the contact person for the doctoral study domain under review - Prof. Monica Dumitrascu - and the team who drafted the internal evaluation report. Various issues were discussed and clarified, and some additional documents were asked. These documents were sent by email.

- Meeting/Discussions with the graduates of the doctoral study domain under review;

On Tuesday, 19.9.2023, between 10:00 and 11:00, via zoom, we met with three graduates from the doctoral school: Dr. Claudiu Angearu, Dr. Alexandra Vrinceanu and Dr. Laura Lupu. The meeting was conducted in Romanian and translation was available. Prof. Dan Balteanu, Dr. Monica Dumitrascu and Dr. Mihaela Sima were also present at this meeting.

- Meeting/Discussions with employers of the graduates in the doctoral study domain under review;

On Tuesday, 19.9.2023, between 10:00 and 11:00, we met with three employers of Doctoral graduates: Dr. Elena Mateescu, from the Romanian Meteorological Administration, Dr. Dan Tanislav, from the University of Valahia in Targoviste, and Dr. Viorel Chendes, from the National Institute of Hydrology and Water Management. The meeting was conducted in Romanian and translation was available. Prof. Dan Balteanu, Dr. Monica Dumitrascu and Dr. Mihaela Sima were present at this meeting also. This meeting took place at the same time as the previous one.

- Meeting/Discussions with the school officials of the Doctoral School(s) in which the doctoral study domain under review is operating;

On Wednesday, 20.9.2023, between 12:30 and 13:30, we met with School Officials and representatives of the various structures of the IOSUD/Doctoral School(s) in which the doctoral study domain operates



### III. Analysis of ARACIS's performance indicators

#### **Domain A. INSTITUTIONAL CAPACITY**

*\*general description of domain analysis.*

#### **Criterion A.1. The administrative, managerial institutional structures and the financial resources**

*\*general description of the criterion analysis.*

*Standard A.1.1. The institution organizing doctoral studies (IOSUD) has implemented the effective functioning mechanisms provided for in the specific legislation on the organization of doctoral studies.*

*\*general description of the standard analysis.*

**Performance Indicator A.1.1.1.** *The existence of specific regulations and their application at the level of the Doctoral School of the respective university doctoral study domain:*

*(a) the internal regulations of the Doctoral School;*

While the self-assessment report states that regulations are under debate, it was assured in a meeting that these issues have been solved and completed during 2023. Documents can be found at of SCOSAAR. The document is available in Romanian only. The website <http://www.acad.ro/scosaar/doc2023/doc2013-0910Regulament.pd> provides public information of these regulations.

*(b) the Methodology for conducting elections for the position of director of the Council of doctoral school (CSD), as well as elections by the students of their representative in CSD and the evidence of their conduct;*

While the self-assessment report states that election procedures are under debate, it was assured in a meeting that these issues have been solved and completed during 2023. Documents can be found at of SCOSAAR. The document is available in Romanian only. The website <http://www.acad.ro/scosaar/doc2023/doc2013-0910Regulament.pd> provides public information of these regulations.

*(c) the Methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies);*

A 20-pages document explaining the methodologies for organizing and conducting doctoral studies was provided. The document is available in Romanian only.

*(d) the existence of mechanisms for recognizing the status of a Doctoral advisor and the equivalence of the doctoral degree obtained abroad;*

A 3-pages document intitled "mecanisme de recunoaștere a calității de conducător de doctorat și de echivalare a doctoratului obținut în alte state și de recunoaștere a studiilor universitare" was provided, which explains these mechanisms. The document is available in Romanian only.

*(e) functional management structures (Council of the doctoral school), giving as well proof of the regularity of meetings;*



The SCOSAAR was restructured, starting with March 2023 and divided into 12 doctoral schools. The Council of the Doctoral School was elected and includes the directors of 12 doctoral schools, the representatives of the PhD students and professors from outside of the Romanian Academy. The structure of this council is available on the SCOSAAR website <https://academiaromana.ro/scosaar/doc2023/CSUD-Consiliu.pdf>. There are regular meetings of this Council, as results from the meeting on Monday 18 September at the Romanian Academy.

*f) the contract for doctoral studies;*

These regulations are present and detailed in a 41-page 2013 document, which clarifies various aspects of SCOSAAR. The contract of university doctoral students with scholarship and the contract of university doctoral students without scholarship are available both in Romanian and English, available at [http://geoinst.ro/phd\\_studies\\_gm.html](http://geoinst.ro/phd_studies_gm.html)

*g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.*

These regulations are present and detailed in a 41-page 2013 document, which clarifies various aspects of SCOSAAR. The document is available in Romanian only, available at [http://www.geoinst.ro/atasuri/phd\\_studies/Guides%20and%20methodologies/Regulamentul%20SCOSAAR.pdf](http://www.geoinst.ro/atasuri/phd_studies/Guides%20and%20methodologies/Regulamentul%20SCOSAAR.pdf).

*Recommendations:*

**The indicator is fulfilled**

**Performance Indicator A.1.1.2.** *The doctoral school's Regulation includes mandatory criteria, procedures and standards binding on the aspects specified in Article 17, paragraph (5) of the Government Decision No. 681/2011 on the approval of the Code of Doctoral Studies with subsequent amendments and additions.*

While the self-assessment report states that election procedures are under debate, it was assured in a meeting that these issues have been solved and completed during 2023.

*Recommendations:*

**The indicator is fulfilled**

**Standard A.1.2.** *The IOSUD has the logistical resources necessary to carry out the doctoral studies' mission.*

*\*general description of the standard analysis.*

**Performance Indicator A.1.2.1.** *The existence and effectiveness of an appropriate IT system to keep track of doctoral students and their academic background.*

Doctoral students' records exist at every institute, at the IGAR level. There are physical and electronic files for each doctoral student. The self-assessment report states that Excel is used, and that a customized computer program for IOSUD- School of Advanced Studies of the Romanian Academy (SCOSAAR) is



being purchased. Note that already in the previous report it was stated that a specific program was in the process of being purchased. During the visit it was made clear that the computer program will be implemented starting with 2023.

*Recommendations:*

The use of digital platform should improve the quality and accessibility of records.

**The indicator is fulfilled**

**Performance Indicator A.1.2.2.** *The existence and use of an appropriate software program and evidence of its use to verify the percentage of similarity in all doctoral theses.*

According to the self-assessment report, it is possible, upon request, to use specific software to verify degree of research similarity. It is also stated that consideration will be given to allocating funds for doctoral students for this purpose.

*Recommendations:*

**The indicator is fulfilled**

**Standard A.1.3.** *The IOSUD makes sure that financial resources are used optimally, and the revenues obtained from doctoral studies are supplemented through additional funding besides governmental funding.*

*\*general description of the standard analysis.*

**Performance Indicator A.1.3.1.** *Existence of at least one research or institutional / human resources development grant under implementation at the time of submission of the internal evaluation file, per doctoral study domain under evaluation, or existence of at least 2 research or institutional development / human resources grant for the doctoral study domain, obtained by doctoral thesis advisors operating in the evaluated domain within the past 5 years. The grants address relevant themes for the respective domain and, as a rule, are engaging doctoral students.*

The self assessment report indicates that two PhD students are beneficiaries of a UEFISCDI research grant called The Holistics of the Impact of Renewable Energy Sources on the Environment and Climate (HORESEC) (Annex 4.1). Apart from this project, there are also three other Research Projects won by PhD supervisors, and three others at the Institute level.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator \*A.1.3.2.** *The percentage of doctoral students active at the time of the evaluation, who for at least six months receive additional funding sources besides government funding, through scholarships awarded by individual persons or by legal entities, or who are financially supported through research or institutional / human resources development grants is not less than 20%.*

The self assessment report states that 30% of PhD students are involved in UEFISCDI grants or research projects. In the meeting with PhD students the issue of scholarships was raised. These funds are insufficient to conduct independent research, and most often, students need to have a part-time job or other source of income. It is critical that the best students are able to find financial support to conduct their



research activities without having to spend time performing jobs which are not research-related. Some of these issues are above the responsibilities of the Institute and lay at National Government and Ministry levels.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator \*A.1.3.3.**<sup>2</sup> *At least 10% of the total amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is used to reimburse professional training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination etc.).*

The self assessment report states that four students were funded to participate in scientific events abroad. In particular, one student had a 3 month scholarship in Czechia. Also the PhD students attended different international conferences, part of them being covered by the Institute of Geography (annex 4.15).

*Recommendations:*

**It was decided at a meeting that this indicator is not applicable.**

**The indicator is fulfilled.**

## **Criterion A.2. Research infrastructure**

*\*general description of the criterion analysis.*

*Standard A.2.1. The IOSUD has a modern research infrastructure to support the conduct of doctoral studies' specific activities.*

*\*general description of the standard analysis.*

**Performance Indicator A.2.1.1.** *The venues and the material equipment available to the doctoral school enable the research activities in the evaluated domain to be carried out, in line with the assumed mission and objectives (computers, specific software, equipment, laboratory equipment, library, access to international databases etc.). The research infrastructure and the provision of research services are presented to the public through a specific platform. The research infrastructure described above, which was purchased and developed within the past 5 years will be presented distinctly.*

According to the self-assessment report several equipment has been acquired in the past five years (especially computers and software) (annex 4.3). An updated document provided at the meeting complemented the information already obtained.

It is important to stress that a significant part of the doctoral students' activity is carried out in the field, and that the Institute also manages a field station.

Also important to mention that in the meeting with directors, an explanation was given, as to the sharing of equipment's within the Romanian Institute, that allows collaboration with other research centres within the Academia (composed of 67 institutes) and other stakeholders. This may compensate any lack of equipment in specific research.

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<sup>2</sup> The indicators marked with an asterisk (\*) hold a special status, referring exclusively to the evaluation of doctoral studies domains, as per Article 12 from the annex No.1 of the Order of the minister of education No. 3651/12.04.2021 approving the Methodology for evaluating university doctoral studies and the system of criteria, standards and performance indicators used in the evaluation. In case they are not met, the Agency extends a period of maximum 3 years to IOSUD to correct the respective deficiencies.





*Recommendations:*

**The indicator is fulfilled.**

### **Criterion A.3. Quality of Human Resources**

*\*general description of the criterion analysis.*

*Standard A.3.1. At the level of each domain there are sufficient qualified staff to ensure the conduct of doctoral study program.*

*\*general description of the standard analysis.*

**Performance Indicator A.3.1.1.** *Minimum three doctoral thesis advisors within that doctoral domain, and at least 50% of them (but no less than three) meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) in force at the time when the evaluation is carried out, which standards are required and mandatory for obtaining the enabling certification.*

According to the self-assessment report, only two doctoral thesis advisors, that is 40% of the total or 2 in 5, meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU). Importantly, Dr. Mihaela Sima, obtained the habilitation and was affiliated to the SCOSAAR and now meets the minimum requirements of the National Council for the attestation of University Degrees, Diplomas and Certificates (Annex 4.4.), thus reaching 50%.

*Recommendations:*

Two more people with habilitation to supervise doctoral theses are needed urgently.

**The indicator is fulfilled.**

**Performance Indicator \*A.3.1.2.** *At least 50% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD.*

According to the self-assessment report, only 40% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD in the evaluation period, that is, 2 out of 5. These two have tenure. The issue here is that three of these five supervisors are pensioners and associate researchers without an employment contract. As mentioned in the previous point, Dr. Mihaela Sima has concluded habilitation and affiliation thus reaching 50%. Now, there are three PhD coordinators full time employed in the Institute of Geography which represent 50%.

*Recommendations:*

Urgency is required in the process of habilitation of a fourth person.

**The indicator is fulfilled.**

**Performance Indicator A.3.1.3.** *The study subjects in the education program based on advanced higher education studies pertaining to the doctoral domain are taught by teaching staff or researchers who are doctoral thesis advisors / certified doctoral thesis advisors, professors / CS I or lecturer / CS II, with proved expertise in the field of the study subjects they teach, or other specialists in the field who meet the standards established by the institution in relation with the aforementioned teaching and research functions, as provided by the law.*





The four courses indicated are taught by two teaching staff, who are professors and doctoral thesis advisors with proved expertise in the field of the study subjects they teach.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator \*A.3.1.4.** *The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12, who are themselves studying in doctoral programs<sup>3</sup> does not exceed 20%.*

*Recommendations:*

According to the self-assessment report this criterion is met. Doctoral supervisors did not supervise more than eight PhD students at any one time, for the period under analysis. This is clear from annex 4.7.

**The indicator is fulfilled.**

**Standard A.3.2.** *The Doctoral advisors within the domain are carrying out a scientific activity visible at international level.*

*\*general description of the standard analysis.*

**Performance Indicator A.3.2.1.** *At least 50% of the doctoral thesis advisors in the evaluated domain have at least 5 Web of Science- or ERIH-indexed publications in magazines of impact, or other achievements of relevant significance for that domain, including international-level contributions that indicate progress in scientific research - development - innovation for the evaluated domain. The aforementioned doctoral thesis advisors enjoy international awareness within the past five years, consisting of: membership on scientific boards of international publications and conferences; membership on boards of international professional associations; guests in conferences or expert groups working abroad, or membership on doctoral defense commissions at universities abroad or co-leading with universities abroad. For Arts and Sports and Physical Education Sciences, doctoral thesis advisors shall prove their international visibility within the past five years by their membership on the boards of professional associations, membership in organizing committees of arts events and international competitions, membership on juries or umpire teams in artistic events or international competitions.*

According to the information available - self assessment report plus CVs - and during the five-year period of the evaluation, only two of the PhD supervisors currently working at the Institute of Geography meet the minimum standards of the National Council for the Attestation of University Degrees, Diplomas and Certificates (CNATDCU), for the field of Geography. They have an excellent track record in what international publications concerns, as can be seen in annex 4.8. Two of the five doctoral supervisors have a Hi index above 10 and more than 30 publications in WOS. Understandably, the three other PhD supervisors, due to the age (87, 89 and 92), have developed most of their career under different academic criteria and context. Nevertheless, their scientific outputs, knowledge and current participation in prestigious institutions, in journals' editorial committees, as indicated in annex 4.8, cannot be overlooked in any way. With the habilitation of a third member, who currently meets the minimum standards also, at

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<sup>3</sup> 3 years for the doctoral university studies with the duration stipulated at Article 159, paragraph (3), respectively 4 years for the doctoral university studies with the duration stipulated at Article 174, paragraph (3) of the Law of national education No.1/2011 with subsequent amendments and additions, with additional extension periods approved as per Article 39, paragraph (3) of the Code of doctoral studies approved by the GD No. 681/2011 with subsequent amendments and additions.



least 50% have at least 5 Web of Science- or ERIH-indexed publications It is therefore a very particular context that dictates this result of 40% and this should not be detrimental to this evaluation. That is the reason why it is indicated fulfilled.

*Recommendations:*

Urgency is required in the process of at least a further habilitation, in widen the group of people who can supervisor PhDs, two more researchers from the institute meeting the minimum standards and being suitable for obtaining the habilitation in the coming year.

**The indicator is fulfilled.**

**Performance Indicator \*A.3.2.2.** *At least 50% of the doctoral thesis advisors in a specific doctoral study domain continue to be active in their scientific field, and acquire at least 25% of the score requested by the minimal CNATDCU standards in force at the time of the evaluation, which are required and mandatory for acquiring their enabling certificate, based on their scientific results within the past five years.*

All five PhD doctoral thesis advisors acquired at least 25% of the score requested by the minimal CNATDCU standards in force at the time of the evaluation in the last five years, as can be see in annex 4.9. Two of them achieve 100%, and a six one, who has completed habilitation and affiliation in 2023, also achieves 100%.

*Recommendations:*

**The indicator is fulfilled.**

## **Domain B. EDUCATIONAL EFFECTIVENESS**

*\*general description of domain analysis.*

### **Criterion B.1. The number, quality and diversity of candidates enrolled for the admission contest**

*\*general description of the criterion analysis.*

*Standard B.1.1. The institution organizing doctoral studies has the capacity to attract candidates from outside the higher education institution or a number of candidates exceeding the number of seats available.*

*\*general description of the standard analysis.*

**Performance Indicator \*B.1.1.1.** *The ratio between the number of graduates of masters' programs of other higher education institutions, national or foreign, who have enrolled for the doctoral admission contest within the past five years and the number of seats funded by the state budget, put out through contest within the doctoral domain is at least 0.2 or the ratio between the number of candidates within the past five years and the number of seats funded by the state budget put out through contest within the doctoral studies domain is at least 1,2.*

*Recommendations:*

**It was decided at a meeting that this indicator is not applicable.**



***The indicator is fulfilled/partially fulfilled/not fulfilled.***

*Standard B.1.2 Candidates admitted to doctoral studies demonstrate academic, research and professional performance.*

*\*general description of the standard analysis.*

***Performance Indicator \*B.1.2.1. Admission to doctoral study programs is based on selection criteria including: previous academic, research and professional performance, their interest for scientific or arts/sports research, publications in the domain and a proposal for a research subject. Interviewing the candidate is compulsory, as part of the admission procedure.***

According to the self-assessment report, the selection of candidates involves several items and it is made according to the principles provided by SCOSAAR, which were already mentioned.

These items include:

1. the average grade obtained by candidates in their BA and MA degrees;
2. the research experience;
3. the motivation to engage in doctoral studies.

Admission also implies three different types of assessment, which are made on a specific colloquium, namely:

1. Oral assessment consisting of the presentation of the doctoral research project.
2. Interview (an oral exam based on the bibliography related to the proposed topic, to which the examination of Geographical knowledge is added for candidates with a BA in a field other than Geography).
3. Oral assessment of a foreign language.

The examination of candidates, is performed by a commission created for this purpose.

It is important to refer that the methodology for admission, the proposed topics and the related specific bibliography is available both on the notice board of the Institute of Geography and on the website ([www.geoinst.ro](http://www.geoinst.ro)), approximately two months prior to the date of the doctoral admissions colloquium.

A document in Romanian only is available online at [http://www.geoinst.ro/atasuri/phd\\_studies/Guides%20and%20methodologies/MetodologieAdmitere\\_Doc\\_torat.pdf](http://www.geoinst.ro/atasuri/phd_studies/Guides%20and%20methodologies/MetodologieAdmitere_Doc_torat.pdf)

*Recommendations:*

***The indicator is fulfilled.***

***Performance Indicator B.1.2.2. The expelling rate, including renouncement / dropping out of doctoral students 3, respectively 4, years after admission<sup>4</sup> does not exceed 30%.***

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

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<sup>4</sup> 3 years for the doctoral university studies with the duration stipulated at Article 159, paragraph (3), respectively 4 years for the doctoral university studies with the duration stipulated at Article 174, paragraph (3) of the Law of national education No. 1/2011 with subsequent amendments and additions.



- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, the number of drop outs after admission, including voluntary dropout after three and four years, is zero.

*Recommendations:*

**The indicator is fulfilled.**

## **Criterion B.2. The content of doctoral programs**

*\*general description of the criterion analysis.*

*Standard B.2.1. The training program based on advanced university studies is appropriate to improve doctoral students' research skills and to strengthen ethical behavior in science.*

*\*general description of the standard analysis.*

**Performance Indicator B.2.1.1.** *The training program based on advanced academic studies includes at least 3 disciplines relevant to the scientific research training of doctoral students; at least one of these disciplines is intended to study in-depth the research methodology and/or the statistical data processing.*

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, in the first year, during the first and second semesters, doctoral students go through a period of advanced training within the doctoral school. In the past five years the doctoral school has been running seven courses, namely

1. Ethics and Academic Integrity;
2. Global Environmental Changes,
3. Natural Hazards in Anthropocene,
4. Methods and Techniques of Analysis in Geographic Information Systems,

At the moment, four courses are on offer. The syllabus for the first four courses (the third one is entitled slightly different: Natural Hazards in the Anthropocene) was provided after request. There are at least 3 courses relevant to the scientific research training of doctoral students.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator B.2.1.2.** *At least one discipline is dedicated to Ethics and Intellectual Property in scientific research or there are well-defined topics on these subjects within a discipline taught in the doctoral program.*

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself



There is one course dedicated to Ethics and Intellectual Property, entitled Ethics and Academic Integrity. It is stated that “The Institute of Geography has organized examinations focused on "learning outcomes", but this formulation is vague.

From the syllabus of the course, it is possible to view the learning outcomes and specific skills acquired. The program and bibliography are available (Romanian only)..

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator B.2.1.3.** *The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses „the learning outcomes”, specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities<sup>5</sup>.*

*- description of the facts, the findings from the assessed institution’s documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution’s documents and the evaluation visit itself*

The self assessment report states that “The Institute of Geography has organized examinations focused on "learning outcomes", It is indeed possible to read the specific Learning outcomes and specific skills that should be acquired for each of the four courses syllabus provided.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator B.2.1.4.** *All along the duration of the doctoral training, doctoral students in the domain receive counselling/guidance from functional guidance commissions, which is reflected in written guidance and feedback or regular meeting.*

*- description of the facts, the findings from the assessed institution’s documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution’s documents and the evaluation visit itself*

The self assessment report lists, in annex 4.10, the names of the counsellors of the steering committee. There is a number of 9 counsellors for 7 PhD students. It is not clear how often these committees meet. From the meetings with PhD students and also with graduates, as described above, it became clear that supervision was always available and students and graduate felt satisfied with the feedback and support from the Institute.

The self assessment report states that an annual workshop dedicated to young researchers takes place each December.

*Recommendations:*

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<sup>5</sup> Or by what the graduate should know, understand and to be able to do, according to the provisions of the Methodology of 17 March 2017 regarding inscription and registration of higher education qualifications in the National Register of Qualifications in Higher Education (RNCIS) approved by the Order No.3475/2017 with subsequent amendments and additions.



**The indicator is fulfilled.**

**Performance Indicator B.2.1.5.** For a doctoral study domain, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance must not exceed 3:1.

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance is 4:2, which is below 3 to 1.

*Recommendations:*

**The indicator is fulfilled.**

### **Criterion B.3. The results of doctoral studies and procedures for their evaluation.**

*\*general description of the criterion analysis.*

*Standard B.3.1. Doctoral students capitalize on the research through presentations at scientific conferences, scientific publications, technological transfer, patents, products and service orders.*

*\*general description of the standard analysis.*

**Performance Indicator B.3.1.1.** For the evaluated domain, the evaluation commission will be provided with at least one paper or some other relevant contribution per doctoral student who has obtained a doctor's title within the past 5 years. From this list, the members of the evaluation commission shall randomly select 5 such papers / relevant contributions per doctoral study domain for review. At least 3 selected papers must contain significant original contributions in the respective domain.

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, at least one article or other relevant contribution per doctoral student who has obtained a PhD in the past five years, was published. During the same period, six doctoral students have obtained their doctorate degree. They have all published at least one relevant article. An exhaustive list of published the 10 publications was provided - Lupu (1); Vinceanu (8); Angearu (1) (annex 4.10).

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator \*B.3.1.2.** The ratio between the number of presentations of doctoral students who completed their doctoral studies within the evaluated period (past 5 years), including posters, exhibitions made at prestigious international events (organized in the country or abroad) and the number



of doctoral students who have completed their doctoral studies within the evaluated period (past 5 years) is at least 1.

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, the eight graduates from the past five years presented a total of 72 scientific papers at national and international events (annex 4.12). Thus, the ratio between the number of presentations of doctoral students is 72:8, that is, 9 papers per graduate.

*Recommendations:*

**The indicator is fulfilled.**

*Standard B.3.2. The Doctoral School engages a significant number of external scientific specialists in the commissions for public defense of doctoral theses in the analyzed domain.*

*\*general description of the standard analysis.*

**Performance Indicator \*B.3.2.1.** *The number of doctoral theses allocated to one specialist coming from a higher education institution, other than the evaluated IOSUD should not exceed two (2) in a year for the theses coordinated by the same doctoral thesis advisor.*

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself

- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself

According to the self-assessment report, no more than two theses were assigned to any one PhD committee member in the same year. The self-assessment report provides a list of the institutional origin of the PhD committee members: University of Bucharest (4), the Academy of Economic Studies (1), the University of Craiova (1), the National Meteorological Administration (3), the Oltenia Regional Meteorological Centre (1), the Ecological University (1), the Institute of Balneology, Physiotherapy and Medical Recovery (1), "Spiru Haret" University (1), the Academy of Agricultural and Forestry Sciences, Bucharest (1), the University of Agricultural Sciences and Veterinary Medicine, Bucharest (1). Annex 4.13 list the details of these supervisions.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator \*B.3.2.2.** *The ratio between the doctoral theses allocated to one scientific specialist coming from a higher education institution, other than the institution where the defense on the doctoral thesis is organized, and the number of doctoral theses presented in the same doctoral study domain in the doctoral school should not exceed 0.3, considering the past five years. Only those doctoral study domains in which minimum ten doctoral theses have been presented within the past five years should be analyzed.*

- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself





*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

The ratio does not exceed 0.3. But since the number of defended PhDs was 8, it is below the minimum of 10, and therefore should not be analysed.

*Recommendations:*

It was decided at a meeting that this indicator is not applicable.

***The indicator is fulfilled/partially fulfilled/not fulfilled.***

## **Domain C. QUALITY MANAGEMENT**

*\*general description of domain analysis.*

### **Criterion C.1. Existence and periodic implementation of the internal quality assurance system**

*\*general description of the criterion analysis.*

*Standard C.1.1. There are an institutional framework and procedures in place and relevant internal quality assurance policies, applied for monitoring the internal quality assurance.*

*\*general description of the standard analysis.*

***Performance Indicator C.1.1.1. The Doctoral school in the respective university study domain shall demonstrate the continuous development of the evaluation process and its internal quality assurance following a procedure developed and applied at the level of the IOSUD, the following assessed criteria being mandatory:***

*(a) the scientific work of Doctoral advisors;*

*(b) the infrastructure and logistics necessary to carry out the research activity;*

*(c) the procedures and subsequent rules based on which doctoral studies are organized;*

*(d) the scientific activity of doctoral students;*

*(e) the training program based on advanced academic studies of doctoral students;*

*(f) social and academic services (including for participation at different events, publishing papers etc.) and counselling made available to doctoral students.*

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

The Institute of Geography has provided various documents which address the concerns of this indicator, namely, "Methodology for organizing and defending the doctoral thesis"; "Methodology regarding the situations of extension or cessation of the PhD Student quality", "Methodology regarding the granting and revocation of the quality of doctoral supervisor within SCOSAAR", "Mechanisms for recognizing the quality of doctoral supervisor", "Methodology for evaluating the doctoral supervisors" and "Methodology regarding co-supervised doctorates".

*Recommendations:*



**The indicator is fulfilled.**

**Performance Indicator \*C.1.1.2.** *Mechanisms are implemented during the stage of the doctoral study program to enable feedback from doctoral students allowing to identify their needs, as well as their overall level of satisfaction with the doctoral study program in order to ensure continuous improvement of the academic and administrative processes. Following the analysis of the results, there is evidence that an action plan was drafted and implemented.*

In 2022 a questionnaire was applied to doctoral students, to assess the quality of doctoral studies (Documents were made available during the visit). Results of the questionnaires illustrate a high degree of satisfaction with the doctoral study program. Interviewed PhD students and graduates felt they had always support from the institute and from the supervisors and other staff.

*Recommendations:*

Apply the questionnaire to PhD students in 2023 and make the results available.

**The indicator is fulfilled.**

## **Criterion C.2. Transparency of information and accessibility of learning resources**

*\*general description of the criterion analysis.*

*Standard C.2.1. Information of interest to doctoral students, future candidates and public interest information is available for electronic format consultation.*

*\*general description of the standard analysis.*

**Performance Indicator C.2.1.1.** *The IOSUD publishes on the website of the organizing institution, in compliance with the general regulations on data protection, information such as:*

- (a) the Doctoral School regulation;*
- (b) the admission regulation;*
- (c) the doctoral studies contract;*
- (d) the study completion regulation including the procedure for the public presentation of the thesis;*
- (e) the content of training program based on advanced academic studies;*
- (f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data;*
- (g) the list of doctoral students within the domain with necessary information (year of registration; advisor);*
- (h) information on the standards for developing the doctoral thesis;*
- (i) links to the doctoral theses' summaries to be publicly presented and the date, time, place where they will be presented; this information will be communicated at least twenty days before the presentation.*
  - description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*
  - analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

In the website [http://www.geoinst.ro/about\\_us.html](http://www.geoinst.ro/about_us.html) it is possible to find the information as listed above.



*Recommendations:*

**The indicator is fulfilled.**

*Standard C.2.2. The IOSUD/The Doctoral School provides doctoral students with access to the resources needed for conducting doctoral studies.*

*\*general description of the standard analysis.*

**Performance Indicator C.2.2.1.** *All doctoral students have free access to one platform providing academic databases relevant to the doctoral studies domain of their thesis.*

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

PhD students have the opportunity to access several databases and online scientific documentation resources. This access to databases is free. I have no indication of the possibility of remote access.

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator C.2.2.2.** *Each doctoral student shall have access, upon request, to an electronic system for verifying the degree of similarity with other existing scientific or artistic works.*

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

According to the self-assessment report, it is possible, upon request, to use specific software to verify the degree of research similarity. The indicated website to conduct these searches is: <https://www.sistemantiplagiat.ro/web/main/>

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator C.2.2.3.** *All doctoral students have access to scientific research laboratories or other facilities depending on the specific domain/domains within the Doctoral School, according to internal order procedures.*

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

According to the self-assessment report, the Institute of Geography has an important documentation centre in the domain of Geography. It has a significant and unique library, which includes the collections of the former Romanian Society of Geography, which was established in 1875, and the collections of various academics who donated their libraries. Significantly, it maintains numerous publications exchanges with many national and international institutions. The Institute of Geography has also a significant Archive, which contains field-survey manuscript reports, among other documents, and



importantly, over 8,000 various-scale cartographic materials edited over the last two centuries, and more than 58,000 aerial survey photographs.

Furthermore, the Institute of Geography is responsible for the *Pătărlagele Geographical Research Station, established in 1969, and located in the Subcarpathians of Buzău*. This Station was raised to the status of *Natural Hazard Research Centre* in 2008. the Centre hosts the *International Summer School on natural hazards and sustainable development problem since 2001 and various other scientific events*.

The Institute of Geography has also various equipments, such as computers, scanners, printers, xerox devices, a total station, Lidar, DGPS, among others. Annex 4.3 lists the acquired equipment, especially computers and software, purchased between 2016 and 2022.

The Institute of Geography has a 50-seat conference room, equipped with a computer and a projection screen.

Doctoral students have the right to use equipment, the reading room, the library and the other means provided by IOSUD / IGAR for professional training. All SCOSAAR doctoral students have access to the Library of the Romanian Academy, the holder of unique collections of books, periodicals and maps. In the meetings with students and graduates, a general satisfaction with scientific research laboratories or other facilities was shown.

*Recommendations:*

**The indicator is fulfilled.**

### **Criterion C.3. Internationalization**

*\*general description of the criterion analysis.*

*Standard C.3.1. There is a strategy in place and it is applied to enhance the internationalization of doctoral studies.*

*\*general description of the standard analysis.*

A 3-pages document intitled "METODOLOGIE privind mobilitatea academică a studenților-doctoranzi" was provided, and details aspects of the internationalisation of doctoral students. The document is available in Romanian only.

**Performance Indicator \*C.3.1.1.** *IOSUD, for every evaluated domain, has concluded mobility agreements with universities abroad, with research institutes, with companies working in the field of study, aimed at the mobility of doctoral students and academic staff (e.g., ERASMUS agreements for the doctoral studies). At least 35% of the doctoral students have completed a training course abroad or other mobility forms such as attending international scientific conferences. IOSUD drafts and applies policies and measures aiming at increasing the number of doctoral students participating at mobility periods abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.*

*- description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

*- analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*



In the period 2010 to 2022, 28 mobilities were made by 8 students (the last 7, in 2021 and 2022, were all made by the same student). Apart from one mobility of three months, all others were all short mobilities (3-5 days), mostly to participate in conferences (Annex 4.15).

*Recommendations:*

**The indicator is fulfilled.**

**Performance Indicator C.3.1.2.** *In the evaluated doctoral study domain, support is granted, including financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.*

- *description of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

- *analysis of the facts, the findings from the assessed institution's documents and the evaluation visit itself*

The self-assessment report does not provide information on support granted to the organization of doctoral studies in international co-tutelage. It does provide information on the invitation of leading experts to deliver courses or lectures for PhD students. Information concerns the period between 2016 and 2020, and a list was provided with various seminars given to the doctoral school by international experts. To be more specific, 18 in 4 years, that is, a little over 4 each year (Annex 4.16). An updated annex was provided during the visit which lists further 6 seminars, from 2021 to 2023.

*Recommendations:*

It is important that PhD students have the opportunity to internationalise their research, contacting international researcher at home or being able to spend time periods abroad.

**The indicator is fulfilled.**

**Performance Indicator C.3.1.3.** *The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.).*

Information found regarding this indicator only goes up to 2019. The list includes 17 activities - all lectures by foreign academics. Also, in 2023 the Strategy for Internalisation of the SCOSAAR was elaborated and is available on the website <https://acad.ro/scosaar/doc2023/Strategia%20de%20Dezvoltare%20a%20Activitat%20C4%83%20C8%9Bii%20Interna%20C8%9Bionale%20a%20Academiei%20Rom%C3%A2ne.pdf> (Romanian only)

*Recommendations:*

**The indicator is fulfilled.**

## IV. SWOT Analysis

Additional information provided on the 10<sup>th</sup> November includes a complete SWOT analysis.

<u>Strengths:</u>	<u>Weaknesses:</u>
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<ul style="list-style-type: none"> <li>- Doctoral School is based on the Institute of Geography, which has a long history and tradition, and is one of the main institutions of fundamental and applied geographical research in the country;</li> <li>- Existence of numerous research projects;</li> <li>- Students and Graduates are satisfied with their studies;</li> <li>- Staff is motivated and has an excellent scientific track-record;</li> <li>- The existence of well equipped laboratories, including a field station;</li> <li>- Good relations between the various Institutes which allows for scientific cooperation.</li> </ul>	<ul style="list-style-type: none"> <li>- The need to establish more international mobility partnerships to provide more opportunities to PhD students for long-term stays;</li> <li>- Difficulty in creating a sense of doctoral community with strong relations between students and staff, due to low number of PhD students;</li> <li>- Small number of PhD supervisors, which prevents the enlargement the topics under study, especially in the field of Human Geography.</li> </ul>
<p style="text-align: center;"><b><u>Opportunities:</u></b></p> <ul style="list-style-type: none"> <li>- Employers are very satisfied with the PhD graduates they employ;</li> <li>- Labour market needs PhD graduates;</li> <li>- Submission of applications for the habilitation procedure by 2 researchers from the Institute and their affiliation to SCOSAAR in the near future.</li> </ul>	<p style="text-align: center;"><b><u>Threats:</u></b></p> <ul style="list-style-type: none"> <li>- GIS and associated technology need continuous funding, so that laboratories do not become outdated;</li> <li>- Inadequate public investment in higher education delays the contracting of PhD supervisors;</li> <li>- Unattractive doctoral scholarships.</li> </ul>

## V. Overview of judgments awarded and of the recommendations

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
1.	PI	<p><b>A.1.1.1.</b> The existence of specific regulations and their application at the level of the Doctoral School of the respective university doctoral study domain:</p> <ul style="list-style-type: none"> <li>a) the internal regulations of the Doctoral School;</li> <li>b) the Methodology for conducting elections for the position of director of the Council of doctoral school (CSD), as well as elections by the students of their representative in CSD and the evidence of their conduct;</li> <li>c) the Methodologies for organizing and conducting doctoral studies (for the admission of doctoral students, for the completion of doctoral studies);</li> <li>d) the existence of mechanisms for recognizing the status of a Doctoral advisor</li> </ul>	fulfilled	Internal regulations of the Doctoral School have been established. A council was established with election procedures. Election processes were introduced, and student representation complies with legislation.

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		<p>and the equivalence of the doctoral degree obtained abroad;</p> <p>e) functional management structures (Council of the doctoral school), giving as well proof of the regularity of meetings;</p> <p>f) the contract for doctoral studies;</p> <p>g) internal procedures for the analysis and approval of proposals regarding the training for doctoral study programs based on advanced academic studies.</p>		
2.	PI	<p><b>A.1.1.2.</b> The doctoral school' Regulation includes mandatory criteria, procedures and standards binding on the aspects specified in Article 17, paragraph (5) of the Government Decision No. 681/2011 on the approval of the Code of Doctoral Studies with subsequent amendments and additions.</p>	Fulfilled	None
3.	PI	<p><b>A.1.2.1.</b> The existence and effectiveness of an appropriate IT system to keep track of doctoral students and their academic background.</p>	Fulfilled	Digitalisation of physical files and use of a digital platform should be implemented.
4.	PI	<p><b>A.1.2.2.</b> The existence and use of an appropriate software program and evidence of its use to verify the percentage of similarity in all doctoral theses.</p>	Fulfilled	None
5.	IP	<p><b>A.1.3.1.</b> Existence of at least one research or institutional / human resources development grant under implementation at the time of submission of the internal evaluation file, per doctoral study domain under evaluation, or existence of at least 2 research or institutional development / human resources grant for the doctoral study domain, obtained by doctoral thesis advisors operating in the evaluated domain within the past 5 years. The grants address relevant themes for the respective domain and, as a rule, are engaging doctoral students.</p>	Fulfilled	None
6.	PI *	<p><b>A.1.3.2.</b> The percentage of doctoral students active at the time of the evaluation, who for at least six months receive additional funding sources besides government funding, through scholarships awarded by individual persons or by legal entities, or who are financially</p>	Fulfilled	None



No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		supported through research or institutional / human resources development grants is not less than 20%.		
7.	PI *	<b>A.1.3.3.</b> At least 10% of the total amount of doctoral grants obtained by the university through institutional contracts and of tuition fees collected from the doctoral students enrolled in the paid tuition system is used to reimburse professional training expenses of doctoral students (attending conferences, summer schools, training, programs abroad, publication of specialty papers or other specific forms of dissemination etc.).	Not Applicable.	
8.	CPI	<b>A.2.1.1.</b> The venues and the material equipment available to the doctoral school enable the research activities in the evaluated domain to be carried out, in line with the assumed mission and objectives (computers, specific software, equipment, laboratory equipment, library, access to international databases etc.). The research infrastructure and the provision of research services are presented to the public through a specific platform. The research infrastructure described above, which was purchased and developed within the past 5 years will be presented distinctly	Fulfilled	A more exhaustive list should be provided, including laboratory materials both in the Institute and in the Field Station. Provision of this information to the public through a specific platform should be observed.
9.	CPI	<b>A.3.1.1.</b> Minimum three doctoral thesis advisors within that doctoral domain, and at least 50% of them (but no less than three) meet the minimum standards of the National Council for Attestation of University Degrees, Diplomas and Certificates (CNATDCU) in force at the time when the evaluation is carried out, which standards are required and mandatory for obtaining the enabling certification.	Fulfilled	At the time of writing the self assessment report only two doctoral thesis advisors, that is 40% of the total or 2 in 5, met the minimum standards. As of 2023, one other researcher meets the requirements (Mihaela Sima). That means, 3 out of 6 meet the requirements, that is, 50%, and no less than three. Habilitation process is also in course to obtain two further PhD supervisors (Bianca Mitrica & Marius-Victor Birsan).
10.	PI *	<b>A.3.1.2.</b> At least 50% of all doctoral advisors have a full-time employment contract for an indefinite period with the IOSUD.	Fulfilled	At the time of writing the self assessment report only 40% of all doctoral advisors had a full-time employment contract for an indefinite period with the IOSUD, that is, 2 out of 5 have full-employment contract. As of 2023, one other researcher meets the requirements (Mihaela Sima). That means,

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
				<p>3 out of 6 meet the requirements, that is, 50%.</p> <p>Three doctoral advisors are pensioners and associate researchers without an employment contract. A renovation in the group is in course and needs to be supported. A process of habilitation is in course to obtain 2 further PhD supervisors. Urgency is required in this process (annex 4.5).</p>
11.	PI	<p><b>A.3.1.3.</b> The study subjects in the education program based on advanced higher education studies pertaining to the doctoral domain are taught by teaching staff or researchers who are doctoral thesis advisors / certified doctoral thesis advisors, professors / CS I or lecturer / CS II, with proved expertise in the field of the study subjects they teach, or other specialists in the field who meet the standards established by the institution in relation with the aforementioned teaching and research functions, as provided by the law.</p>	Fulfilled.	<p>More people with habilitation to supervise are needed, and more courses should be offered and not only taught by two people only.</p>
12.	PI *	<p><b>A.3.1.4.</b> The percentage of doctoral thesis advisors who concomitantly coordinate more than 8 doctoral students, but no more than 12, who are themselves studying in doctoral programs does not exceed 20%.</p>	Fulfilled.	None
13.	CPI	<p><b>A.3.2.1.</b> At least 50% of the doctoral thesis advisors in the evaluated domain have at least 5 Web of Science- or ERIH-indexed publications in magazines of impact, or other achievements of relevant significance for that domain, including international-level contributions that indicate progress in scientific research - development - innovation for the evaluated domain. The aforementioned doctoral thesis advisors enjoy international awareness within the past five years, consisting of: membership on scientific boards of international publications and conferences; membership on boards of international professional associations; guests in conferences or expert groups working abroad, or membership on doctoral defense commissions at universities abroad or co-leading with universities abroad. For Arts and</p>	Fulfilled	<p>According to the self-assessment report, only 2 out of 5, that is, 40%. Yet the process of habilitation of one further person has been concluded in 2023, thus 50% are now in place.</p>

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		Sports and Physical Education Sciences, doctoral thesis advisors shall prove their international visibility within the past five years by their membership on the boards of professional associations, membership in organizing committees of arts events and international competitions, membership on juries or umpire teams in artistic events or international competitions.		
14.	PI *	<b>A.3.2.2.</b> At least 50% of the doctoral thesis advisors in a specific doctoral study domain continue to be active in their scientific field, and acquire at least 25% of the score requested by the minimal CNATDCU standards in force at the time of the evaluation, which are required and mandatory for acquiring their enabling certificate, based on their scientific results within the past five years	Fulfilled.	None
15.	PI *	<b>B.1.1.1.</b> The ratio between the number of graduates of masters' programs of other higher education institutions, national or foreign, who have enrolled for the doctoral admission contest within the past five years and the number of seats funded by the state budget, put out through contest within the doctoral domain is at least 0.2 or the ratio between the number of candidates within the past five years and the number of seats funded by the state budget put out through contest within the doctoral studies domain is at least 1,2.	Not Applicable.	
16.	PI *	<b>B.1.2.1.</b> Admission to doctoral study programs is based on selection criteria including: previous academic, research and professional performance, their interest for scientific or arts/sports research, publications in the domain and a proposal for a research subject. Interviewing the candidate is compulsory, as part of the admission procedure.	Fulfilled.	None
17.	PI	<b>B.1.2.2.</b> The expelling rate, including renouncement / dropping out of doctoral students 3, respectively 4, years after admission does not exceed 30%.	Fulfilled	None

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
18.	PI	<b>B.2.1.1.</b> The training program based on advanced academic studies includes at least 3 disciplines relevant to the scientific research training of doctoral students; at least one of these disciplines is intended to study in-depth the research methodology and/or the statistical data processing.	Fulfilled.	Include in the courses' syllabus the program and the bibliography.
19.	PI	<b>B.2.1.2.</b> At least one discipline is dedicated to Ethics and Intellectual Property in scientific research or there are well-defined topics on these subjects within a discipline taught in the doctoral program.	Fulfilled.	None
20.	PI	<b>B.2.1.3.</b> The IOSUD has mechanisms to ensure that the academic training program based on advanced university studies addresses „the learning outcomes”, specifying the knowledge, skills, responsibility and autonomy that doctoral students should acquire after completing each discipline or through the research activities.	Fulfilled.	More details should be provided
21.	PI	<b>B.2.1.4.</b> All along the duration of the doctoral training, doctoral students in the domain receive counselling/guidance from functional guidance commissions, which is reflected in written guidance and feedback or regular meeting.	Fulfilled.	It would be useful for the doctoral school that committees meet regularly and assess research progress. It is not clear and often these committees meet.
22.	CPI	<b>B.2.1.5.</b> For a doctoral study domain, the ratio between the number of doctoral students and the number of teaching staff/researchers providing doctoral guidance must not exceed 3:1.	Fulfilled.	None
23.	CPI	<b>B.3.1.1.</b> For the evaluated domain, the evaluation commission will be provided with at least one paper or some other relevant contribution per doctoral student who has obtained a doctor's title within the past 5 years. From this list, the members of the evaluation commission shall randomly select 5 such papers / relevant contributions per doctoral study domain for review. At least 3 selected papers must contain significant original contributions in the respective domain	Fulfilled.	None

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
24.	PI *	<b>B.3.1.2.</b> The ratio between the number of presentations of doctoral students who completed their doctoral studies within the evaluated period (past 5 years), including posters, exhibitions made at prestigious international events (organized in the country or abroad) and the number of doctoral students who have completed their doctoral studies within the evaluated period (past 5 years) is at least 1.	Fulfilled.	None
25.	PI *	<b>B.3.2.1.</b> The number of doctoral theses allocated to one specialist coming from a higher education institution, other than the evaluated IOSUD should not exceed two (2) in a year for the theses coordinated by the same doctoral thesis advisor.	Fulfilled.	None
26.	PI *	<b>B.3.2.2.</b> The ratio between the doctoral theses allocated to one scientific specialist coming from a higher education institution, other than the institution where the defense on the doctoral thesis is organized, and the number of doctoral theses presented in the same doctoral study domain in the doctoral school should not exceed 0.3, considering the past five years. Only those doctoral study domains in which minimum ten doctoral theses have been presented within the past five years should be analyzed.	Not Applicable.	The ratio does not exceed 0.3, as the number of defended PhDs was 8, thus, below the minimum of 10.
27.	PI	<b>C.1.1.1.</b> The Doctoral school in the respective university study domain shall demonstrate the continuous development of the evaluation process and its internal quality assurance following a procedure developed and applied at the level of the IOSUD, the following assessed criteria being mandatory: a) the scientific work of Doctoral advisors; b) the infrastructure and logistics necessary to carry out the research activity; c) the procedures and subsequent rules based on which doctoral studies are organized; d) the scientific activity of doctoral students; e) the training program based on advanced academic studies of doctoral students; f) social and academic services (including for participation at different events, publishing	Fulfilled.	None

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		papers etc.) and counselling made available to doctoral students.		
28.	PI *	<b>C.1.1.2.</b> Mechanisms are implemented during the stage of the doctoral study program to enable feedback from doctoral students allowing to identify their needs, as well as their overall level of satisfaction with the doctoral study program in order to ensure continuous improvement of the academic and administrative processes. Following the analysis of the results, there is evidence that an action plan was drafted and implemented.	Fulfilled.	It is important that the result of the questionnaire and its analysis is available to students.
29.	CPI	<b>C.2.1.1.</b> The IOSUD publishes on the website of the organizing institution, in compliance with the general regulations on data protection, information such as: a) the Doctoral School regulation; b) the admission regulation; c) the doctoral studies contract; d) the study completion regulation including the procedure for the public presentation of the thesis; e) the content of training program based on advanced academic studies; f) the academic and scientific profile, thematic areas/research themes of the Doctoral advisors within the domain, as well as their institutional contact data; g) the list of doctoral students within the domain with necessary information (year of registration; advisor); h) information on the standards for developing the doctoral thesis; i) links to the doctoral theses' summaries to be publicly presented and the date, time, place where they will be presented; this information will be communicated at least twenty days before the presentation.	Fulfilled.	None
30.	PI	<b>C.2.2.1.</b> All doctoral students have free access to one platform providing academic databases relevant to the doctoral studies domain of their thesis.	Fulfilled	None
31.	PI	<b>C.2.2.2.</b> Each doctoral student shall have access, upon request, to an electronic system	Fulfilled.	None

No.	Type of indicator (PI, PI *, CPI)	Performance indicator	Judgment	Recommendations
		for verifying the degree of similarity with other existing scientific or artistic works.		
32.	PI	<b>C.2.2.3.</b> All doctoral students have access to scientific research laboratories or other facilities depending on the specific domain/domains within the Doctoral School, according to internal order procedures.	Fulfilled	None
33.	PI *	<b>C.3.1.1.</b> IOSUD, for every evaluated domain, has concluded mobility agreements with universities abroad, with research institutes, with companies working in the field of study, aimed at the mobility of doctoral students and academic staff (e.g., ERASMUS agreements for the doctoral studies). At least 35% of the doctoral students have completed a training course abroad or other mobility forms such as attending international scientific conferences. IOSUD drafts and applies policies and measures aiming at increasing the number of doctoral students participating at mobility periods abroad, up to at least 20%, which is the target at the level of the European Higher Education Area.	Fulfilled	Longer international mobility periods should be encouraged. Available public information should be displayed regarding existing international mobility contracts (ERASMUS or others) and possibility of exchanges. In the Institute of Geography website there is a list of six "Inter-Academic Exchanges" with specific themes, but no more information.
34.	PI	<b>C.3.1.2.</b> In the evaluated doctoral study domain, support is granted, including financial support, to the organization of doctoral studies in international co-tutelage or invitation of leading experts to deliver courses/lectures for doctoral students.	Fulfilled	None
35.	PI	<b>C.3.1.3.</b> The internationalization of activities carried out during the doctoral studies is supported by IOSUD through concrete measures (e.g., by participating in educational fairs to attract international doctoral students; by including international experts in guidance committees or doctoral committees etc.).	partially fulfilled	It is important that PhD students have the opportunity to internationalise their research, contacting international researchers at home or being able to spend time periods abroad.

*The recommendations contained in the report shall be resumed in the indicators' analysis. Other general recommendations may be made that do not fit within a particular indicator.*

**VERY IMPORTANT!!!** – *Each identified weakness must be correlated with at least one recommendation to improve the situation!*





## VI. Conclusions and general recommendations

*Several important issues raised during the evaluation are resumed and some general conclusions are drawn on the quality of the education provided within the doctoral study domain under review; the Experts' Panel also presents general assessments about the institution. Other general recommendation may also be presented, which cannot be related to a specific indicator and have not been presented at point V.*

*A decision is proposed, together with the reasons for granting it (if the Experts' Panel members do not reach a consensus, each of them can propose and argue his/her own decision).*

- The Romanian Academy, and its Institute of Geography is very reputable institution, and offers high standards of education and research;
- Internal regulations of the Doctoral School were recently updated, and the council established election procedures;
- The Doctoral School needs to grow as it has few students and only three certified supervisors. More people with habilitation to supervise are needed, either some may take habilitation or new hiring. A process of habilitation is in course to obtain up to 2 further PhD supervisors. Urgency is required in this process;
- It is important that PhD students have the opportunity to internationalise their research, contacting international researcher at home or being able to spend long time periods abroad.
- The Geography Institute functions in a wonderful historical building, but needs substantial renovation. This could make this institute a flagship building for the Academia.

**The general recommendation is accreditation, since indicators are fulfilled**

## VII. Annexes

*The following types of documents shall be attached:*

- *The detailed schedule of the evaluation visit – MANDATORY.*
- *The survey questionnaire applied to doctoral students or academic staff in the doctoral study domain under review, the results - optional (e.g., in graphic form) and their interpretation - if applicable.*
- *Scanned documents – any document requested from the IOSUD during the evaluation visit and received, which is not found in the internal evaluation file received before the visit and referred to in the report.*
- *Pictures – if relevant issues are raised regarding the condition of the student residences, cafeterias, premises for teaching and learning activities, library etc.*
- *Screenshots/Print screens of the Doctoral School/IOSUD website proving specific claims in the report, accompanied by the date when they were accessed and saved.*
- *Any other documents relevant to the evaluation process referred to in the report.*

JOÃO CARLOS VICENTE

**AGENȚIA ROMÂNĂ DE ASIGURARE A CALITĂȚII ÎN ÎNVĂȚĂMÂNTUL SUPERIOR**Membră în Asociația Europeană pentru Asigurarea Calității în Învățământul Superior - **ENQA**Înscrisă în Registrul European pentru Asigurarea Calității în Învățământul Superior - **EQAR****Programul vizitei de evaluare a domeniului de studii universitare de doctorat GEOGRAFIE  
al Academiei Române***The program for the evaluation of the Geography doctoral study domain  
at the Romanian Academy*Perioada de derulare a evaluării / *The evaluation period: 18-20.09.2023*

<b>Interval orar hour</b>	<b>Activitate / Activity</b>	<b>Participanți / Participants</b>	<b>Observații/ Locație Observations/ Location</b>
<b>Luni / Monday, 18.09.2023</b>			
<b>10.30-11.00</b>	<b>Întâlnire organizatorică a comisiei de experți evaluatori</b>  <i>Organizational meeting of the panel evaluators</i>	- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members	<i>Academia Română, Sala de Consiliu</i>  <i>Calea Victoriei 125</i>
<b>11.00-11.45</b>	<b>Întâlnirea comisiei de experți evaluatori cu reprezentanții conducerii instituției evaluate și ai CSUD</b>  <i>Panel evaluators` meeting with representatives of the institution and of the Council for Academic Doctoral Studies (CSUD)</i>	- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members - Reprezentanți ai conducerii universității / <i>Representatives of the University's management</i> - Reprezentanți ai CSUD și ai școlii doctorale / <i>Representatives of the CSUD and of the Doctoral School</i> - Persoana de contact / <i>The contact person</i>	<i>Academia Română, Sala de Consiliu</i>  <i>Calea Victoriei 125</i>
<b>11.45-12.30</b>	<b>Întâlnirea echipei de evaluare cu membrii Comisiei de Etică a instituției de învățământ superior</b>	- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members - Membrii Comisiei de Etică / <i>Ethics Commission members</i>	<i>Academia Română, Sala de Consiliu</i>  <i>Calea Victoriei 125</i>

Email: [office@aracis.ro](mailto:office@aracis.ro), [www.aracis.ro](http://www.aracis.ro)



Interval orar hour	Activitate / Activity	Participanți / Participants	Observații/ Locație Observations/ Location
	<i>Panel evaluators` meeting with the members of the Ethics Commission</i>		
12:30-13:15	<p><b>Întâlnirea echipei de evaluare cu membrii Comisiei pentru Evaluarea și Asigurarea Calității (CEAC) / Departamentul de asigurare a calității</b></p> <p><i>Panel evaluators` meeting with the Commission for Quality Evaluation and Assurance (CEAC) members / Quality Assurance Department</i></p>	<ul style="list-style-type: none"> <li>- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members</li> <li>- Reprezentanți ai instituției evaluate / University's representatives</li> </ul>	<p><i>Academia Română, Sala de Consiliu</i></p> <p><i>Calea Victoriei 125</i></p>
13:15-14:00	Pauză de prânz / Lunch break		
14:00-15:00	<p><b>Întâlnirea comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat și cu echipa care a realizat raportul de evaluare internă</b></p> <p><i>Panel evaluators` meeting with the contact person for the doctoral study domain under review and the team who drafted the internal evaluation report</i></p>	<ul style="list-style-type: none"> <li>- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members</li> <li>- Reprezentanți ai instituției evaluate / University's representatives</li> </ul>	<p><i>Institutul de Geografie, Sala Simion Mehedinți</i></p> <p><i>Str. D. Racoviță nr. 12</i></p>
15:00-16:00	<p><b>Întâlnirea echipei de evaluare cu directorii/ responsabilii centrelor/ laboratoarelor de cercetare aferente domeniului de studii universitare de doctorat evaluat</b></p> <p><i>Panel evaluators` meeting with the Directors/ persons in charge of the research centers/laboratories within the doctoral study domain</i></p>	<ul style="list-style-type: none"> <li>- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members</li> <li>-Directorii centrelor / laboratoarelor de cercetare / Directors of research centers/laboratories</li> </ul>	<p><i>Institutul de Geografie, Sala Simion Mehedinți</i></p> <p><i>Str. D. Racoviță nr. 12</i></p>



Interval orar hour	Activitate / Activity	Participanți / Participants	Observații/ Locație Observations/ Location
16:00 - 17:00	<p><b>Întâlnirea echipei de evaluare cu studenți doctoranzi aferent domeniului evaluat</b></p> <p><i>Panel evaluators` meeting with the doctoral students corresponding to the doctoral study domain</i></p>	<p>- Comisia de evaluare ARACIS / ARACIS panel members</p> <p>- Studenți doctoranzi / Doctoral students</p>	<p><i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i></p>

### Marți/ Tuesday, 19.09.2023

9:00- 9:30	<p><b>Întâlnire tehnică a comisiei de evaluare</b></p> <p><i>Panel evaluators` technical meeting</i></p>	<p>- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members</p>	<p><i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i></p>
9:30- 10:00	<p><b>Întâlnirea membrilor comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat</b></p> <p><i>Panel evaluators` meeting with the contact person for the doctoral study domain under review</i></p>	<p>- Membrii comisiei de experți evaluatori ARACIS / ARACIS panel members</p> <p>- Reprezentanți ai instituției evaluate / University's representatives</p>	<p><i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i></p>
10:00- 11:00	<p><b>Întâlnirea echipei de evaluare cu reprezentanți ai angajatorilor absolvenților domeniului evaluat</b></p> <p><i>Panel evaluators` meeting with graduates corresponding to the doctoral study domain</i></p>	<p>- Comisia de evaluare ARACIS / ARACIS panel members</p> <p>- Reprezentanți ai angajatorilor / Employers` representatives</p>	<p><i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i></p>
11:00- 12:00	<p><b>Întâlnirea echipei de evaluare cu absolvenți cu titlu de doctor din domeniul evaluat</b></p> <p><i>Panel evaluators` meeting with graduates</i></p>	<p>- Comisia de evaluare ARACIS / ARACIS panel members</p> <p>- Absolvenți cu titlu de doctor din domeniul</p>	<p><i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i></p>



	<i>corresponding to the doctoral study domain</i>	<i>evaluat / Doctoral graduates having earned the title of Doctor</i>	
<b>12:00 - 13:00</b>	<b>Vizitarea bazei materiale didactice și de cercetare</b>  <i>Visiting the educational and research infrastructure</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>
<b>13:00- 14:00</b>	Pauză de prânz / Lunch break		
<b>14:00- 15:00</b>	Derularea activităților specifice comisiei de experți evaluatori și efectuarea de consemnări în proiectul raportului de evaluare externă. <i>Carrying out the specific activities of the panel evaluators and making entries in the draft of the external evaluation report.</i>  Dacă se consideră necesare, pot avea loc întâlniri suplimentare	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>  NU ESTE CAZUL	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>
<b>15:00- 16:00</b>	<b>Întâlnirea echipei de evaluare cu personalul didactic aferent domeniului evaluat</b>  <i>Panel evaluators` meeting with the academic staff corresponding to the doctoral study domain</i>	- Comisia de evaluare ARACIS / <i>ARACIS panel members</i> - Cadre didactice care au calitatea de conducător de doctorat / <i>Doctoral coordinators</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>
<b>16:00- 18:00</b>	Derularea activităților specifice comisiei de experți evaluatori și efectuarea de consemnări în proiectul raportului de evaluare externă.  <i>Carrying out the specific activities of the panel evaluators and making entries in the draft of the external evaluation report.</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i>  - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>



### Miercuri / Wednesday, 20.09.2023

<b>09:00-10:00</b>	<b>Întâlnirea membrilor comisiei de experți evaluatori cu responsabilul domeniului de studii universitare de doctorat evaluat</b>  <i>Panel evaluators` meeting with the contact person for the doctoral study domain under review</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>
<b>10:00-11:00</b>	<b>Întâlnirea echipei de evaluare cu membrii Consiliului școlii doctorale în cadrul căreia va funcționa domeniul evaluat</b>  <i>Panel evaluators` meeting with Doctoral Schools Council (CSD) members</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i>  - Membrii CSD / <i>CSD's members</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>
<b>11:00 - 13:00</b>	Derularea activității comisiei de experți evaluatori (inclusiv continuarea anumitor activități începute/stabilite în ziua precedentă, analiza documentelor suplimentare puse la dispoziție de reprezentanții instituției supuse evaluării, efectuarea de consemnări în proiectul raportului de evaluare externă sau derularea unor întâlniri cu reprezentanți ai instituției supuse evaluării). / <i>Carrying out the work of the panel evaluators (including the continuation of certain activities started / established in the previous day, analysis of additional documents provided by the representatives of the institution under evaluation, making notes in the draft external evaluation report or holding meetings with representatives of the institution under evaluation).</i> Discuții referitoare la elaborarea raportului de evaluare externă al comisiei de experți evaluatori. /	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS' panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>Institutul de Geografie, Sala Simion Mehedinți Str. D. Racoviță nr. 12</i>





	<i>Discussions on the preparation of the external evaluation report of the panel evaluators.</i>		
<b>13:00-14:00</b>	Întâlnirea membrilor comisiei de experți evaluatori cu reprezentanții instituției evaluate pentru comunicarea concluziilor procesului de evaluare  <i>Panel evaluators` meeting with representatives of the institution under review to discuss on the conclusions of the evaluation process.</i>	- Membrii comisiei de experți evaluatori ARACIS / <i>ARACIS panel members</i> - Reprezentanți ai instituției evaluate / <i>University's representatives</i>	<i>Academia Română, Sala Club</i>  <i>Calea Victoriei 125</i>

**\* Toate activitățile incluse în structura programului vizitei comisiei de evaluare sunt obligatorii, însă ordinea și durata alocată acestora sunt stabilite de către comisie în funcție de specificul evaluării. / \* All activities included in the structure of the panel evaluators visit program are mandatory, but the order and duration allocated to them are established by the commission according to the specifics of the evaluation.**

Prof. univ. dr. Sandu Boengiu

Acad. Ioan Aurel Pop

**Coordonator al comisiei de experți evaluatori ARACIS**

**Președinte al Academiei Române**

**ANEXA 4.3**

**A.2.1.1. Spațiile și dotarea material a IOSUD/școlii doctorale permit realizarea activităților de cercetare în domeniul evaluat, în acord cu misiunea și obiectivele asumate (calculatoare, software specific, aparatură, echipamente de laborator, bibliotecă, acces la baze de date internaționale, etc.). Infrastructura de cercetare și oferta de servicii de cercetare sunt prezentate public prin intermediul unei platforme de profil. Se va evidenția, în mod distinct, infrastructura de cercetare descrisă mai sus, achiziționată și dezvoltată în ultimii 5 ani.**

**Infrastructura de cercetare achiziționată și dezvoltată în ultimii 5 ani este evidențiată în tabelul următor.**

<b>Denumire echipament / software</b>	<b>Valoare (EUR/RON)*</b>
<b>2018</b>	
Calculator HP ProDesk 480 G5 (3buc)	15.068,36 RON
<b>2019</b>	
-	-
<b>2020</b>	
Desktop Fujitsu ESPRIMO (2 buc.)	9.882,50 RON
Calculator HP Z1G5T (3 buc.)	23.505,00 RON
Sistem Calculator HP Z4G4 +Monitor LED Samsung LS24E45UFS 24 inch FullDH Negru (1 buc.)	15.484,99 RON
<b>2021</b>	
Sistem desktop Dell Vostro 3888 Intel Core i5-10400 8GB, RAM SSD 512GB Windows 10 Pro + monitor Dell P2422H (2 buc.)	9.246,04 RON
<b>2022</b>	
-	-
<b>2023</b>	
Sistem Desktop Dell XPS 8960 Pro + windows 11 Pro +Monitor DELL 27”cu Webcam (pop-up) inclus (2 buc)	29.600,06 RON
Laptop 2-in-1 HP Spectre x360 16-f0027nn cu procesor Intel® Core™ i7-11390H pana la 5.00 GHz, 16”, 3K+, Touch, IPS, 16GB DDR4, 1TB SSD, NVIDIA GEFORCE RTX3050 4GB with Max-Q, Windows 11 Home, Nightfall black [5D5T2EA] (1 buc.)	8.999,99 RON
Laptop Gigabyte Aero 16 OLED BSF cu procesor Intel(r) Core(tm) i7-13700H pana la 5.0GHz, 16”, UHD+, OLED, 16GB DDR5, 1TB SSD, NVIDIA GeForce RTX 4070 8GB GDDR6, Windows 11 Home, Twilight Silver [BSF-73EE994SO] (1 buc.)	11.000,00 RON

\*specificați moneda folosită

**C.3.1.2. În cadrul domeniului de studii evaluat este sprijinită, inclusiv financiar, organizarea unor doctorate în cotutelă internațională, respectiv invitarea unor experți de prim rang care să susțină cursuri/prelegeri pentru studenții doctoranzi.**

**Lista experților străini invitați care au susținut cursuri, seminarii pentru doctoranzi (2016-2022)**

<b>NUME și prenume expert invitat</b>	<b>Afilieră</b>	<b>Tema</b>	<b>Perioada</b>
Cercetător Științific, Dr. Jaromir Kolejka	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Landscape maps in the Czech Republic in connection with world and European development	Septembrie 2016
Cercetător Științific, Dr. Katerina Batelkova	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Landscape maps in the Czech Republic in connection with world and European development	Septembrie 2016
Prof. Anthony Sorensen	Universitatea New England, Australia	The second machine age and implications for the discipline of Geography. Case studies of practical geographical investigations	Octombrie 2016
Prof. Michael Sofer	Universitatea Bar-Ilan, Israel	The Changing Landscape of the Rural Urban Fringe: An Israeli Case Study	Septembrie 2017
Prof. Marek Degorski	Institutul de Geografie și Organizare Spațială, Academia Poloneză de Științe, Polonia	Ecosystem Services as a Tool for Local and Regional Development	Septembrie 2017
Cercetător Științific, Dr. Jaromir Kolejka	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Post-industrial landscape - its identification and classification as contemporary challenges faced by geographic research	Noiembrie 2017
Cercetător Științific, Dr. Katerina Batelkova	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Post-industrial landscape - its identification and classification as contemporary challenges faced by geographic research	Noiembrie 2017
Prof. Violette Rey	Universitatea din Lyon, UMR CNRS EVS, Franța	Des chiffres, des cartes et toujours la pratique du terrain: un demi-siècle de géographie sur la Roumanie	Mai 2018
Cercetător Științific, Dr. Jaromir Kolejka	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Geocomputation and Spatial Modelling for Geographical Drought Risk Assessment: A Case Study of the Hustopeče Area, Czech Republic	Septembrie 2018

Cercetător Științific, Dr. Katerina Batelkova	Institutul de Geonică, Academia Republicii Cehe, Republica Cehă	Geocomputation and Spatial Modelling for Geographical Drought Risk Assessment: A Case Study of the Hustopeče Area,	Septembrie 2018
Prof. hab. Jerzy Bański	Institutul de Geografie și Organizare Spațială, Academia Poloneză de Științe, Polonia	Internal peripheries in Poland and Romania – role of endogenous and exogenous factors in their development processes	Octombrie 2018
Acad. Leonid Rudenko	Institutul de Geografie, Academia Națională de Științe, Ucraina	Cross-border cooperation as a tool for local development in Romania and Ukraine	Aprilie 2019
Cercetător Științific, Dr. Sergiy Lisovskyi	Institutul de Geografie, Academia Națională de Științe, Ucraina	The Landscape Plans System as a Tool for Sustainable Development in Ukraine, Ukraine	Aprilie 2019
Cercetător Științific, Dr. Eugenia Maruniak	Institutul de Geografie, Academia Națională de Științe, Ucraina	Socio-economic and environmental challenges for local and regional development in the Romanian-Ukrainian border area	Aprilie 2019
Prof. Hans-Balder Havenith	Universitatea din Liege, Belgia	Longitudinal geomorphic profile across the Buzău-Prahova Subcarpathians	Mai 2019
Cercetător Științific, Dr. Daniel Michniak	Institutul de Geografie, Academia Slovacă de Științe, Slovacia	Transport-related problems of Bratislava city and its suburbanregion	Septembrie 2018
Cercetător Științific, Dr. Vladimír Székely	Institutul de Geografie, Academia Slovacă de Științe, Slovacia	The Pauperisation and Suburbanisation of the Countryside: Two Aspects of Spatially Differentiated Post-communist Development in Slovakia	Septembrie 2018
Cercetător Științific, Dr. Tamas Hardi	Institutul de Studii Regionale, Academia Maghiară de Științe, Ungaria	Various mental images about the geographical extension of Central, Southeast and Eastern Europe	Octombrie 2019
Cercetător Științific Dr. Peter FERUS	Institutul de Ecologia Pădurilor al Academiei Slovace de Științe	Invasive plant species in the context of climate change. Case studies form Slovakia and Romania	Octombrie 2021
Prof. dr. Milada Statsna	Universitatea Mendelu, Brno, Republica Cehă	Social and innovative Platform on Cultural Tourism and its potential towards deepening Europeanisation	Mai 2022

Dr. Marcel Pleijte	Wageningen Research, Olanda	Cultural tourism and lessons from good practices across case study regions	Mai 2022
Dr. Patrik Tatrai	Geographical Institute, Research Centre for Astronomy and Earth Sciences, Hungary	Patterns of elderly migration in the Hungarian-Ukrainian border zone: a rural periphery transformed by cross-border mobility	Iunie 2023
Dr. Michał Konopski	Institute of Geography and Spatial Organization, Polish Academy of Sciences	Socio-economic inequalities at different spatial scales in Europe and population vulnerability to pandemics	Iunie 2023
Prof. Carmen Vázquez-Varela	Universitatea Castilla-La Mancha, Spania	Cultural Innovation in rural areas: cultural initiatives as a tool for revitalisation in Castilla-La Mancha	Iunie 2023

**CHESTIONAR DE EVALUARE A CONDUCATORILOR DE DOCTORAT DE CATRE STUDENTII – DOCTORANZI**

Anul     

**Obiectivul** prezentului chestionar este evaluarea nivelului de satisfacție a studenților doctoranzi din cadrul Școlii doctorale de Inginerie Mecanică și Industrială cu privire la suportul și activitățile de mentorat oferite studenților de către conducătorii de doctorat.

Va rugam sa bifați, în scala de evaluare, pentru fiecare afirmație, nivelul pe care îl considerați cel mai potrivit, rezultat din propriile convingeri și nu din aprecieri sau comentarii, pozitive ori negative, exterioare observațiilor nemijlocite ale dumneavoastră.

Semnificația nivelurilor din scala de evaluare este următoarea: **1- foarte slab; 2 - slab; 3 - mediu; 4 - ridicat; 5 - foarte ridicat.**

Bifați numai în dreptul afirmațiilor care corespund stadiului la care va aflați în parcurgerea studiilor universitare de doctorat.

În lista conducătorilor de doctorat ai școlii doctorale, vă rugam să bifați pătratul corespunzător conducătorului dumneavoastră de doctorat.

Chestionarul nu se semnează. Datele colectate vor fi tratate statistic și anonim.

Nr. crt.	CRITERII	Scala de evaluare				
		1	2	3	4	5
1.	Nivelul de exigență la selecția preliminară în vederea admiterii					
2.	Conținutul disciplinelor urmate în cadrul programului de studii universitare avansate					
3.	Nivelul de preocupare pentru îndrumarea studentului-doctorand la elaborarea programului de cercetare științifică					
4.	Nivelul de implicare a conducătorului de doctorat în îndrumarea științifică și cunoașterea permanentă a stadiului cercetărilor studentului-doctorand					
5.	Nivelul de implicare a conducătorului de doctorat și al școlii doctorale în asigurarea condițiilor de studiu					
6.	Nivelul de monitorizare asigurat de către conducătorul de doctorat și comisia de îndrumare a activității științifice și publicistice a studentului-doctorand					
7.	Nivelul de obiectivitate în evaluarea activității științifice și publicistice a studentului-doctorand					
8.	Nivelul de preocupare pentru informarea studentului-doctorand cu privire la respectarea eticii științifice și universitare și a integrității academice					
9.	Nivelul de exigență în verificarea respectării, de către studentul doctorand, a eticii științifice și universitare și a					

	integrității academice					
10.	Nivelul de implicare în stimularea studentului-doctorand de a participa la manifestări științifice					
11.	Nivelul de exigență în evaluarea rapoartelor de cercetare științifică					

Lista conducătorilor de doctorat<sup>1</sup>. Va rugăm sa bifați pătratul corespunzător conducătorului dumneavoastră de doctorat.

Nr. Crt.	Nume si prenume conducător de doctorat din domeniul	Loc pentru bifă
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### ANEXA nr. 3

<sup>1</sup> Vor fi trecuți toți conducătorii de doctorat ce au spre îndrumare studenți-doctoranzi din cadrul IOD