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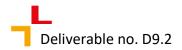
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	MIKHAIL GORSHENKOV		
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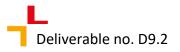


Identifying the challenges in managing research infrastructures in Russia and urgent training needs

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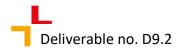
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1. Executive Summary

This report highlights the results of survey "Identifying the challenges in managing research infrastructures in Russia and urgent training needs" conducted within WP9 of the CREMLINplus project (Grant 871072) of the EU Research and Innovation Programme Horizon 2020.

The survey was focused on managers and operators (technicians) of the Russian research infrastructures (RU RIs) with the aim of collecting their views on the managerial issues of RIs in different thematic domains. The main respondents to the survey were the managers and operators of the 11 priority organizations implementing research infrastructures mentioned in the list, recommended by the Ministry of Science and Higher Education of the Russian Federation (LIST-11)¹ and the 5 Russian megascience projects².

Data was collected through an online survey with 11 questions on various aspects of management of research infrastructures, which was disseminated among 206 organizations, listed in Annex 3, including LIST-11 organizations and organizations that implement 5 megascience projects.

The report is based on 184 responses from managers at different levels and operators of the Russian research infrastructures, among them 14 responses came from representatives of focus groups.

The report provides a most general description of the managerial problems of RU RIs and needs in training courses. The results of the current survey show that there is a real demand for improving skills and developing knowledge of managers and operators of the Russian RIs. All respondents acknowledged a strong need for improving their managerial skills through different training courses. They also highlighted the benefits of exchange programmes for managers and operators between Russian and European RIs.

The **List of the training** courses/summer schools/workshops dedicated to improving skills and ways of managing research infrastructures in different thematic areas was updated based on suggestions of survey respondents.

The report provides recommendations on training activities for the RU RIs and emphasizes the role of CREMLINplus fellowship programme in addressing their managerial challenges.

2. Introduction. Objectives of the survey

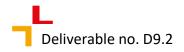
The ambitious goal of CREMLINplus project is to achieve a significantly higher level of EU-Russia cooperation on research infrastructures in different thematic domains.

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¹ https://www.cremlinplus.eu/collaboration/list 11 facilities/

https://www.cremlinplus.eu/collaboration/russian megascience projects/





The project covers the following 3 directions:

- -support the strengthening of the complementarity between Russian megascience initiatives and their European counterparts;
- -contribute to overcoming the barriers that prevent European scientists from accessing Russian Research Infrastructures (RU RIs) of European interest; support Russian Facilities in setting-up the appropriate transparent and sustainable access conditions; promote the harmonization of procedures for access and develop the framework conditions to improve access of European Scientists to RU RIs;
- develop a staff exchange programme and thematic courses and workshops (e.g. summer schools), aimed at fostering exchanges of best practices on management practices, access procedures and scientific collaboration between infrastructure Staff and Scientists belonging to both the Russian Federation and European Union.

The success of the above mentioned initiatives depends largely on the quality and professional skills of the staff of research infrastructures, requires adequate skills for their managers, operators and technicians, as well as users. RIs managerial skills need to create advanced services for both the scientific community and trust by the stakeholders and supporting governments, to address different issues of international cooperation on research infrastructures characterized by challenging technical and organizational structures. For this reasons the identification of managerial challenges facing Russian research infrastructures (RU RIs) has been recognized as being of a paramount importance within the CREMLINplus project.

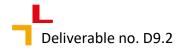
Within Work package 9 of the project the following interconnected tasks have to be fulfilled:

- gathering and structuring the information on the available thematic and horizontal training courses, summer schools, workshops and international conferences in Europe and Russia, dedicated to managerial issues of research infrastructures, which meet the urgent needs of the Russian RIs;
- identifying the managerial challenges facing Russian research infrastructures;
- launching a specific "CREMLIN plus Fellowship Programme", aimed at supporting the participation of operators (scientists and engineers), managers and administrators of RU RIs in the events dedicated to improving their skills and ways of managing RU RIs in different thematic areas.

To identify problems and needs in managing Russian research infrastructures we developed "Identifying the challenges in managing research infrastructures in Russia and urgent training needs" survey within WP9.

This report presents the main findings of survey analysis. The results of the survey will allow to focus on the training activities aimed at improving the most challenging RU RIs managerial skills.





3. Methodology

In April – May 2020 WP9 team of the CREMLINplus project developed a survey "Identifying the challenges in managing research infrastructures in Russia and urgent training needs" and refined the groups of survey respondents.

The respondents of the survey were **the managers and operators** of the Russian research infrastructures in different thematic domains.

The main focus groups were 5 Russian megascience projects and the 11 priority organizations implementing research infrastructures, recommended by the Ministry of Science and Higher Education of the Russian Federation and mentioned in LIST-11.

It should be noted that although the Russian research infrastructures do not include the word "manager" as a job title, they often create specific positions for employees whose responsibilities focus on the administration of a variety of activities related to design, establishing and operation of research infrastructures at different levels (e.g. group-, section-, department heads and executives).

The **Technician** (or operator) of the Russian research infrastructure means a professional who keeps up the normal operation of various sectors of the infrastructure, delivers technological support to external and internal users. Technicians make use different tools and techniques to solve technical non-routine problems and managing client issues. The technicians play an essential role in active and smooth functioning and maintenance of the Russian research infrastructure.

The survey was conducted during the period from May 19, 2020 to October 21, 2020.

In the first step the survey was disseminated among the representatives of LIST-11 and organizations initiating and supporting 5 Russian megascience projects, and then the mailing list was expanded to **206 organizations** (Annex 2. The list of the survey recipients).

Totally the questionnaire was answered by **105 organizations** (**184 responses**) (Annex 3. The final mailing list of respondents).

We created **Google-forms** for the survey in two languages (English and Russian), available at the following links (Annex 1. Survey):

English:

https://docs.google.com/forms/d/e/1FAIpQLSf5amZEMN9K0YxMu64XahZyuG-Sv8ggvyNeg5udrxhAv kbug/viewform

Russian:

https://docs.google.com/forms/d/e/1FAIpQLScGKdmSUJ9kZi2T79yP5abNNMt34vTJdfMDOZ 5pAXBq0prU2g/viewform

The survey consists of 4 sections:

- General information about respondent with brief description of organization and a specific research infrastructure and its mission. This information allowed us to explore

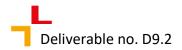




the answers in terms of organization types, thematic domains and positions of the respondents in research infrastructures.

- Information on the challenges in managing research infrastructure of organization and related urgent training needs. This information allowed us to track respondents' opinions on the managerial problems of Russian RIs;
- Self-assessment of knowledge/skills in the items relevant to different aspects of managing research infrastructures. The data gathered from self-assessment allowed to understand the level of knowledge and skills of respondents on the most important managerial problems;
- Exchange the experience and knowledge. The gathered data allowed us to update the list of training activities, developed for CREMLINplus Fellowship programme within WP9 The Survey addressed the following topics:
- 1. **Governance and Organization** (this section gathered information on features of **governance and organization** of specific research infrastructure: design the governance structure of the research infrastructure, assign roles and responsibilities within the RI, set up of operating systems of the organization, assign performance targets and monitor results of different organizational units/nodes)
- 2. **Strategic Management and Business Innovation** (This section gathered information on understanding the ecosystem of the RI, define the business model and develop the business plan of the RI, translating mission and vision into a strategic plan, understanding how to monitor the strategy execution)
- **3. Financial Management** (This section gathered information on understanding how to interpret financial data, balance sheets and cash flow, the costs of different service lines, how to monitor spending, expenses and budgets, how to develop a financial plan)
- 4. **Developing a sustainable funding model for your RI** (This section gathered information on modes of funding, identifying and negotiating with potential funders; new funding tools: private-public partnerships, special projects, commercial funding, fee for service, consultancy, the evaluation of investment projects)
- **5. Leadership and Team Management** (This section gathered information on envision the future, engage people and support their empowerment, understanding how to influence, inspire and motivate others, building a common vision among stakeholders and organizations, managing efficiently interpersonal and organizational conflicts, understanding how to give constructive feedback to teams)
- **6. Service Management** (This section gathered information on understanding how to develop new service solutions in the organization, knowing how to challenge standard practices and current procedures, Implementing best practice methods within the organization)
- 7. **International Law and Compliance (**This section gathered information on compliance with laws and regulations in different settings, public procurement, contract issues in different settings: IPR regulations and data and material sharing, privacy and ethical issues)





- 8. **Infrastructure and Resource Management** (This section gathered information on research and administrative data management: storage of data, archiving, privacy, data protection and sharing issues; compliance with national and international regulations, best practices and standards; creating a disaster mitigation and recovery plan)
- 9. **Raising Awareness (**This section gathered information on target communication to different groups, identify relevant stakeholders such as: public or scientific community, the organization [employees], policy makers and funding bodies; choosing the right communication channel to maximize impact, core elements of a successful branding strategy, communicating value creation and impact)
- **10. International dimension of research infrastructure** (This section gathered information on strategy for promoting RI in global science and education space and attracting international users; ensuring long-term cooperation with foreign RIs on different issues, e.g. for joint development of instrumentation; providing the international trainings for **User communities**; managing data/experience / knowledge exchange with foreign partners; managing the participation of the infrastructure in European and other international programmes, projects and initiatives)
- 11. Access to research infrastructure and User communities (This section gathered information on establishing the Access policy [by defining the Access modes, fees and costs, the selection process, the eligibility and restriction criteria, the data management plan, confidentiality and data protection issues, IPR and ethical issues; the safety and health regulations and the measures supporting the users travel and accommodation; the experience of providing access to infrastructure and managing a specialized website]; developing a strategy to promote the infrastructure among possible user groups; establishing a strategy to create a User Community and to integrate it in the RIs development).

The questionnaire resulted in the collection of an impressive amount of information.

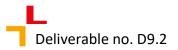
4. Survey results

4.1. General information

4.1.1. Thematic domains

We received over 35 responses for each thematic domain: Biomedical sciences/health and food, Environmental sciences, Physical sciences and engineering, Social sciences and humanities. The distribution of the gathered responses across the thematic domains is shown in Fig. 1.





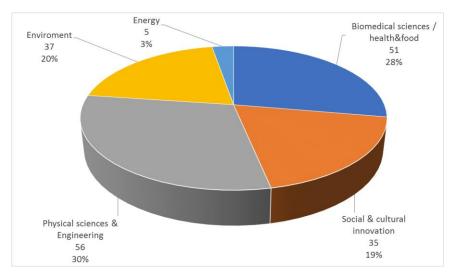


Fig. 1 – The distribution of collected responses across thematic domains

4.1.2. Positions of respondents in RU RIs

The survey respondents hold different positions in their organizations. We distributed their positions into the following groups:

- 1. Managers of the 1st level Directors of organizations, deputy-directors, vice-rectors, scientific secretary.
- 2. Managers of the 2nd level Heads and deputy heads of centers / departments, directors of institutes / faculties, heads of laboratories.
- 3. Operators senior researchers and associate professors, who keeps up the normal operation of various sectors of the infrastructure and delivers technological support to external and internal users.

The distributions of respondents according to their positions in general (Fig.2) and in every thematic domain (Fig. 3) were analyzed.

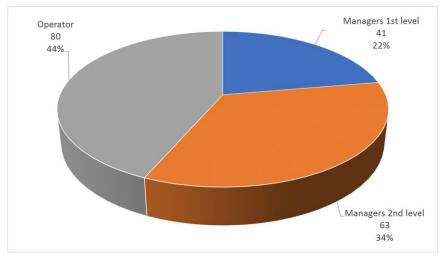
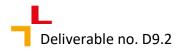


Fig. 2 – Distribution of respondents by the positions





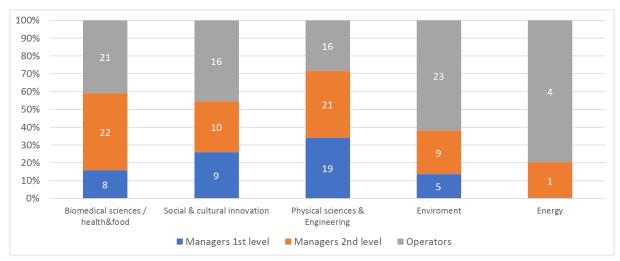


Fig. 3 – Distribution of respondents according to their position within thematic domains (the column contains data on the number of responses)

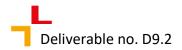
Regarding the distribution according to position of respondents within the thematic domains, there is a slight bias towards an increase in number of managers for Physical sciences and engineering domain(Managers 1st Level - 34%; Managers 2nd Level - 38%; Operators - 29%), and vice versa for Environment domain (Managers 1st Level - 14%; Managers 2nd Level - 24%; Operators - 62%) and Energy domain (Managers 1st Level - 0%; Managers 2nd Level - 20%; Operators - 80%), which in the case of Energy domain is related to a relatively small number of responses. In the other thematic domains, the distribution is close to each other: Biomedical sciences / health and food (Managers 1st Level - 16%; Managers 2nd Level - 41%; operators - 43%), Social (Managers 1st Level - 26% Managers 2nd Level - 29%; operators - 46%).

4.1.3. The distribution of respondents according to type of organization

In the next stage, we analyzed the respondents according to type of organization (Figure 4). In the Russian Federation, along with Universities and research centers, there are historically established Institutes of the Russian Academy of Sciences (RAS).

The main goal of the RAS is to organize and conduct fundamental and applied scientific research on the problems of natural, technical, humanitarian and social sciences, aimed at obtaining new knowledge about the laws of the development of nature, society, humans and contributing to the technological, economic, social and cultural development of the Russian Federation. The RAS Institutes have a well-developed scientific infrastructure, including the megascience infrustructure (the Super S-Tau electron-positron collider factory at the Budker Institute of Nuclear Physics of the RAS, the International Center for Extreme Light Field Research at the Institute of Applied Physics of RAS, Institute of Cytology and Genetics SB RAS). The category of Institutes of the RAS included representatives of LIST-11:





Institute for Nuclear Research of the RAS, Crystallography and Photonics of the RAS, Special Astrophysical Observatory of the RAS)

Universities have a developed scientific infrastructure and centers for the collective use of scientific equipment. Representatives of LIST-11 were included in the category of Universities: National Research University Higher School of Economics, St. Petersburg State University.

Sectoral scientific Institutes (Research Centers) is a very large network of research, design and engineering organizations of a wide variety of profiles to provide applied research and development in the industry-specific direction. They include pilot plants, clinics, breeding stations, organizations for information services in the scientific and technical sphere, metrology and certification. This network partly includes state scientific centers (SSC), which are one of the effective tools for the development of the scientific and technological complex of Russia. The status of a state scientific center can be assigned to a scientific organization that has unique experimental and experimental equipment, has scientists and highly qualified specialists, and whose scientific and (or) scientific and technical activities have received international acceptance.

Representatives of LIST-11 are also assigned to the category "Other": NRC "Kurchatov Institute", Kulakov's Scientific Medical Research Center for Obstetrics, Gynecology and Perinatology of the Ministry of Health of the Russian Federation. The Joint Institute for Nuclear Research fell into the category of "international organization".

All types of scientific organizations are presented in the survey. A large number of processed questionnaires of Universities, Institutes of the Russian Academy of Sciences and sectoral research centers allow us to consider them as an analytical section when processing questionnaires.

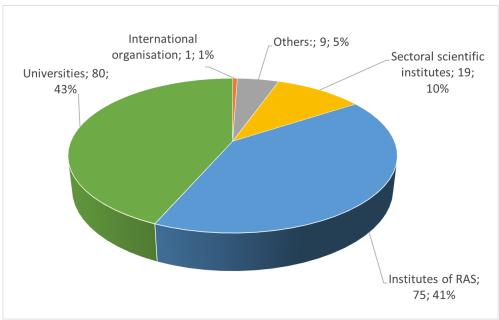
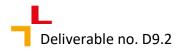


Fig. 4 - Distribution of respondents according to type of organization





Regarding the distribution of respondents according to type of organization within thematic domains (Figure 5), there is a shift from the average towards Universities for Social Science and Energy domains, and for the Environmental Sciences - towards the predominance of representatives of RAS.

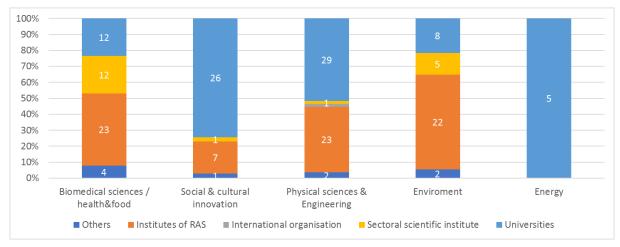


Figure 5 - Distribution according to type of organization among respondents within thematic domains

The distribution of job types by the main types of organizations (Figure 6) is close to the average, but there is a slight increase in the share of Managers of the 1st level for RAS institutes.

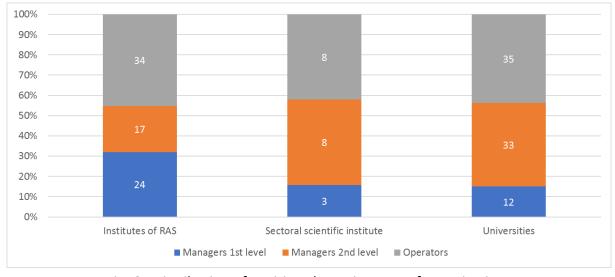
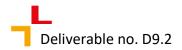


Fig. 6 - Distribution of positions by main types of organizations

Organizations of the LIST-11 and megascience in the survey are represented by 14 questionnaires, of which 4 were submitted by Managers of the 1st level and 10 - by Managers of the 2nd level.

4.2. The challenges in managing Russian research infrastructures

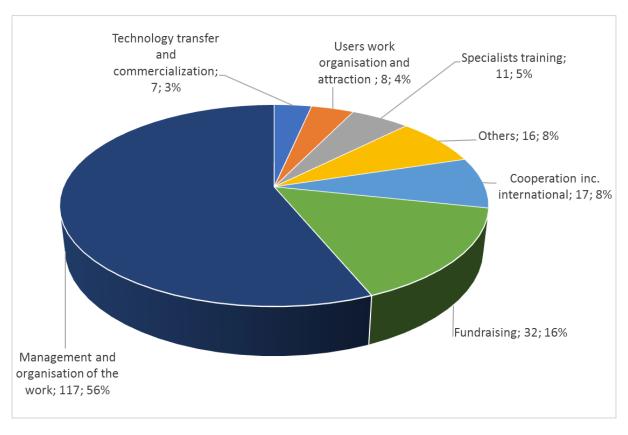




Based on the responses of the respondents to the second part of the survey, general problems in organizations were structured. The following groups of problems have been identified:

- management and organization of the workflow (bureaucracy, low efficiency, management in science, organization of access to equipment, organization of equipment repair, control of equipment loading, the effectiveness of scientific research e.t.c.);
- 2. attracting financing (problems of stability of financing, procurement of new equipments, insufficient financing, e.t.c.);
- 3. training of specialists (lack of theoretical and practical basis, lack of qualified staff, attraction of young scientists);
- 4. third-party user aquisition and organisation of their work;
- 5. technology transfer and commercialization (promotion of scientific developments, transfer of intellectual property rights, attraction of industrial partners e.t.c.);
- 6. metrological support (standardization, certification, accreditation, etc.);
- 7. networking and international cooperation (cooperation with third-party CCUs, with megascience projects, involvement in international programs etc.

The distribution of responses according to the identified groups of problems is presented in Figure 7. Figure 8 shows the distribution of the responses across different categories of respondents.





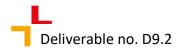


Fig. 7 - Distribution of responses according to the identified groups of problems

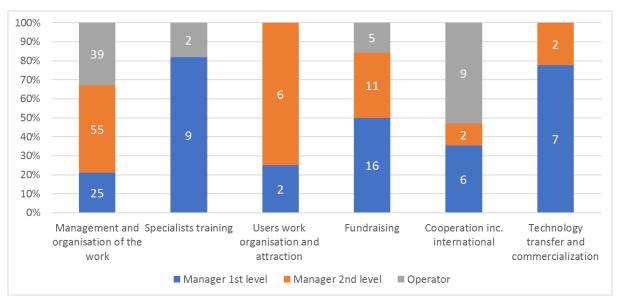


Fig. 8 – Distribution of the responses across different categories of respondents

The problem of management and organization of workflow was recognized by all three categories of respondents approximately at the same level. Technology transfer and commercialization was mostly the challenge for managers of the 1st level. Problem of third-party user aquisition and organizing their work mostly recognized by managers of the 2nd level. Operators identified problems in establishing networking and international cooperation. Fundraising problems were approximately of the same level for the managers at different levels, but rarely appeared in the answers of operators.

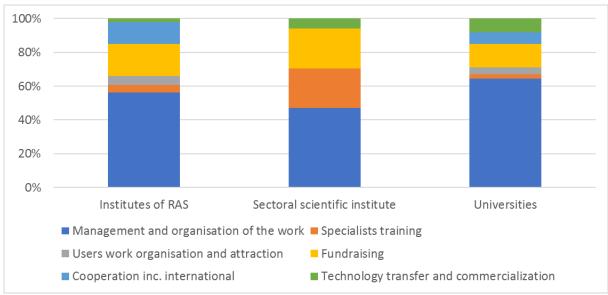
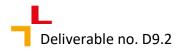


Fig. 9 - Distribution of the responses across different type of organizations





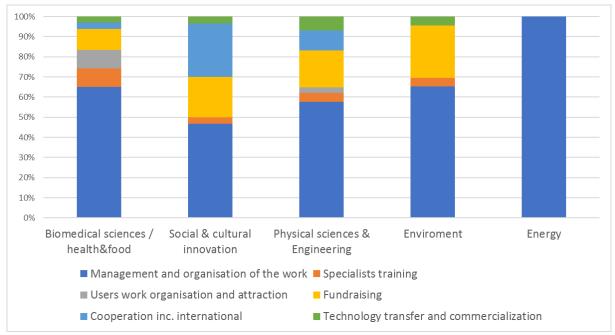


Fig. 10 - Distribution of the responses across different type of thematic domains

Results of self-assessment of knowledge/skills in the items relevant to different aspects of managing research infrastructures

4.3. Results of self-assessment of knowledge/skills in the items relevant to different aspects of managing research infrastructures

4.3.1. Question 1. Governance and Organisation

176 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 11-13.

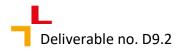
The most common answer was 3. «a little knowledge/skill but considerable development required»: 90 of 176 respondents (51%). The share of answer 1«this competency is not applicable to my job» and answer 2. «no knowledge/skill» was 32 answers (18%).

The share of answer 3 varies within thematic domains from 44% for Social Sciences and Humanities to 80% for Energy domain.

The distribution of answers within thematic domains shows the predominance of answers with low competencies within the Environmental sciences domain (41%); in the remaining thematic domains, the share of answers ranged from 0% (for Energy) to 14% (for Physical sciences and engineering).

The distribution of answers by type of respondents' position (Figure 12) shows that basically the answer1. "
were often submitted by operators. The share of answer 4. "
good level of knowledge/skill displayed, with a little development required" increased from operators through managers at 2nd level to managers at the 1st level (21, 32 and 50%, respectively).





The distribution of answers by organization type (Figure 13) showed that 25% of answers 1. *«this competency is not applicable to my job"* and 2. "no knowledge/skill» were submitted by RAS representatives: the number of the latter was the largest of all organizations (Research centers - 5%, Universities - 15%). The answers 3. "a little knowledge/skill but considerable development required" constituted 48, 67 and 46% among the RAS representatives, research centers and Universities, respectively. The share of answers 4. "good level of knowledge/skill displayed, with a little development required" and 5. "fully knowledgeable/skilled – no/very little development required" constituted 26, 27 and 37% for RAS, research centers and Universities, respectively.

Thus, the competences in Governance and Organisation of RIs were not identified for Environmental sciences domain as well for operators and representatives of RAS. A large number of answers 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.



Fig. 11 – Distribution of respondents' answers within thematic domains to the question 1: Governance and Organisation





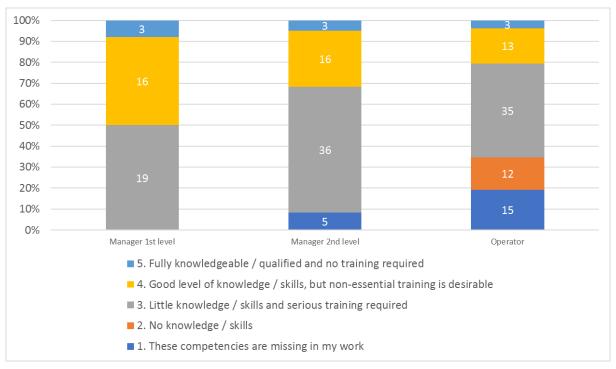


Fig. 12 - Distribution of respondents' answers depending on the position held to the question

1: Governance and Organisation

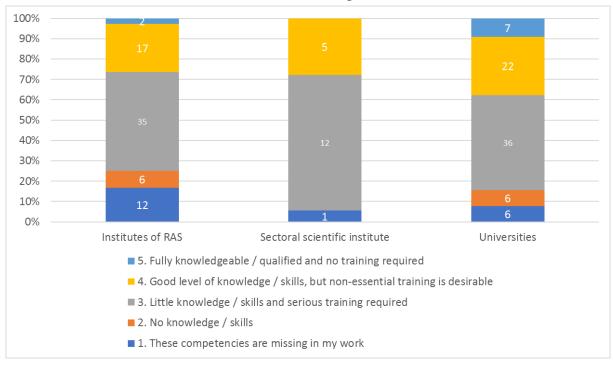
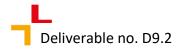


Fig. 13 - Distribution of respondents' answers depending on the type of the represented organization to the question 1: Governance and Organisation

4.3.2. Question 2. Strategic Management and Business Innovation

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and type of organizations is shown in Figures 14-16.





The most common answer was 3. «a little knowledge/skill but considerable development required»: 88 from 174 (51%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 58 answers (33%).

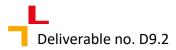
The share of answers 3 varies within thematic domains from 39% for Environmental sciences to 100% for Energy. The distribution of answers within thematic domains shows the predominance of answer 3 within the field of Environmental sciences - 58%, in the remaining thematic domains, the share of answer3 ranged from 0% (for Energy) to 33% (for Physical sciences and engineering).

The distribution of answers by type of respondents position (Figure 15) shows that basically the answers 1. *«this competency is not applicable to my job»* and 2. *«no knowledge/skill»* were submitted by operators. The number of answer 4. *«good level of knowledge/skill displayed, with a little development required»* increased from operators through 2nd level managers to 1st level managers (9, 15 and 31%, respectively).

The distribution of answers by organization type (Figure 16) shows that 46% of answers 1. *«this competency is not applicable to my job* and 2. *no knowledge/skill»* were presented among RAS representatives; the number of the latter was the largest of all organizations (research center - 22 %, university - 23%). The answer 3. *«a little knowledge/skill but considerable development required»* constituted 45, 67 and 51% among the RAS representatives, research center and universities, respectively. The share of answers 4. *«good level of knowledge/skill displayed, with a little development required»* and 5. *«fully knowledgeable/skilled – no/very little development required»* was 8, 11 and 26% for RAS, research centers and universities, respectively.

Thus, the competences in Strategic Management and Business Innovation of RIs were not identified for Environmental sciences domain and to a greater extent for operators and also representatives of RAS. A large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.





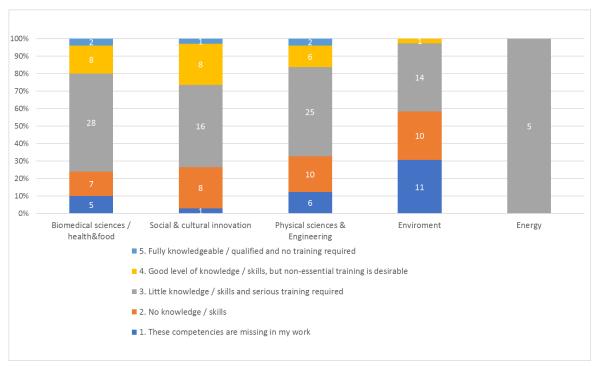


Fig. 14 – Distribution of respondents' answers within thematic domains to the question 2: Strategic Management and Business Innovation

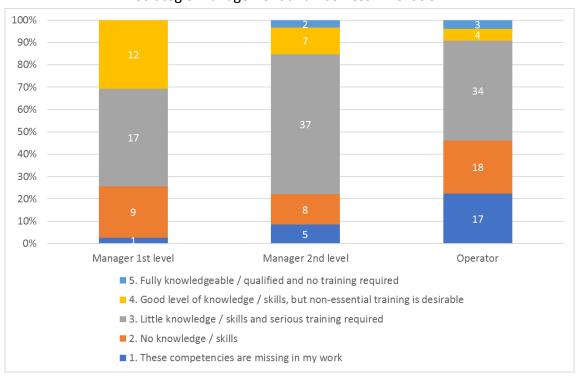
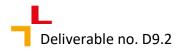


Fig. 15 - Distribution of respondents' answers depending on the position held to the question 2: Strategic Management and Business Innovation





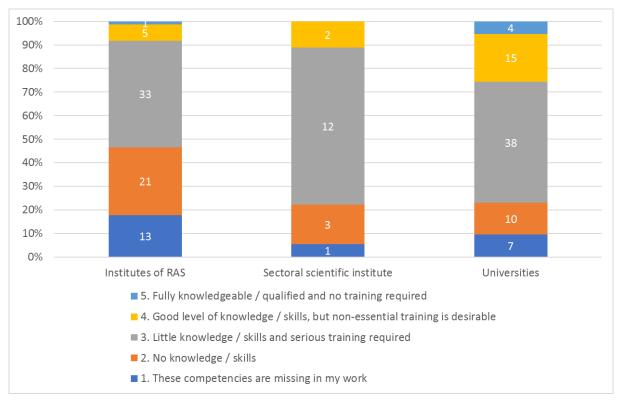


Fig. 16 - Distribution of respondents' answers depending on the type of the represented organization to the question 2: Strategic Management and Business Innovation

4.3.3. Question 3 Financial Management

173 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and type of organizations is shown in Figures 17-19.

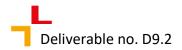
The most common answer is 3. «a little knowledge/skill but considerable development required»: 78 from 172 (45%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 67 answers (39%).

The part of answers 3 varies within thematic domains from 32% for Social sciences and humanities to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answer 3 within the field of Environmental sciences 64%, in the remaining thematic domains, the share of answers ranged from 19% (for Physical sciences and engineering) to 38% (for Biomedical sciences/health and food).

The distribution of answers by type of position (Figure 18) shows that basically the answers 1. *«this competency is not applicable to my job»* and 2. *«no knowledge/skill»* submitted by the operators. The maximum number of answer4. *«good level of knowledge/skill displayed, with a little development required»* was submitted by 1st level managers, while for 2nd level managers and operators the share was ~ 12%.

The distribution of answers by organization type (Figure 19) shows that 48% of answers 1. *«this competency is not applicable to my job"* and 2. "no knowledge/skill» were found





among RAS representatives; the number of the latter was the largest of all organizations (research center - 28 %, university - 33%). The answer 3. «a little knowledge/skill but considerable development required» constituted 41, 67 and 43% among the RAS representatives, research center and universities, respectively. The part of answers 4. «good level of knowledge/skill displayed, with a little development required» and 5. «fully knowledgeable/skilled – no/very little development required» constituted 11, 6 and 24% for RAS, research center and universities, respectively. Thus, the competences in this domain were not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The lurhe number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.

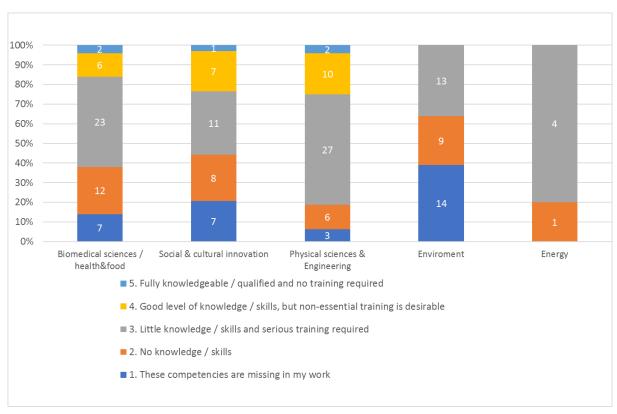
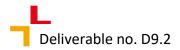


Fig. 17 – Distribution of respondents' answers within thematic domains to the question 3: Financial Management





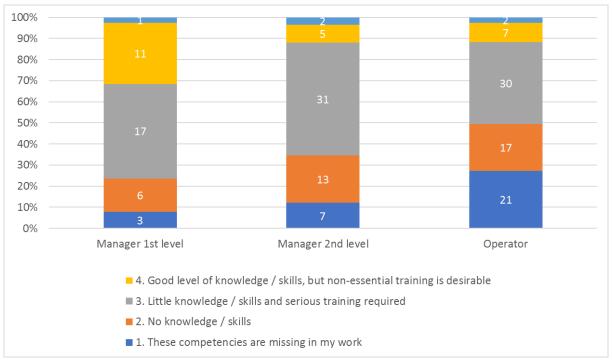


Fig. 18 - Distribution of respondents' answers depending on the position held to the question 3: Financial Management

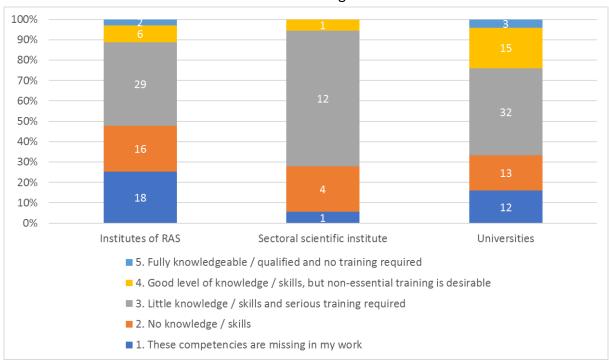
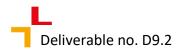


Fig. 19 - Distribution of respondents' answers depending on the type of the represented organization to the question 3: Financial Management

4.3.4. Question 4. Developing a sustainable funding model for your RI

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 20-22.





The most common answer is 3. «a little knowledge/skill but considerable development required»: 80 from 174 (46%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 70 answers (40%).

The share of answer 3 varies within thematic domains from 38% for Physical sciences and engineering to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answers 2 and 3 in the field of Environmental sciences - 53%, in the remaining thematic domains, the share of answers ranged from 20% (for Energy) to 39% (for Physical sciences & Engineering).

The distribution of answers by type of position (Figure 21) shows that basically the answers 1. ""
this competency is not applicable to my job" and 2. ""
no knowledge/skill" submitted by the operators. The large number of answer 4. "good level of knowledge/skill displayed, with a little development required" were submitted by 1st level managers, while for 2nd level managers and operators the share was "12 and 8% respectively.

The distribution of answers by organization type (Figure 22) shows that 51% of answer 1. *«this competency is not applicable to my job* and 2. *no knowledge/skill»* was presented among RAS representatives; the number of the latter was the largest of all organizations (research center - 22 %, university - 32%). The answer 3. *«a little knowledge/skill but considerable development required»* constituted 42, 66 and 46% among the RAS representatives, research center and universities, respectively. The share of answer 4. *«good level of knowledge/skill displayed, with a little development required»* and 5. *«fully knowledgeable/skilled – no/very little development required»* constituted 7, 11 and 21% for RAS, research center and universities, respectively.

Thus, the competence nin this domain was identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.





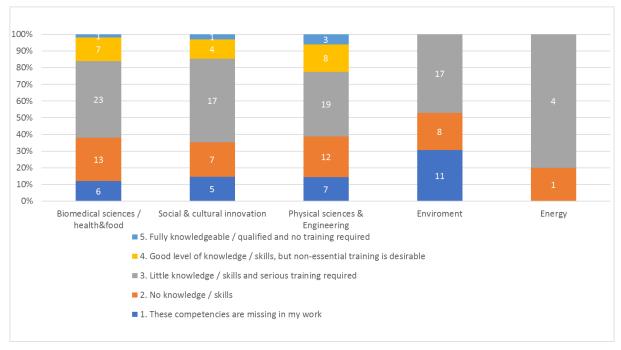


Fig. 20 - Distribution of respondents' answers within thematic domains to the question 4:

Developing a sustainable funding model for your RI

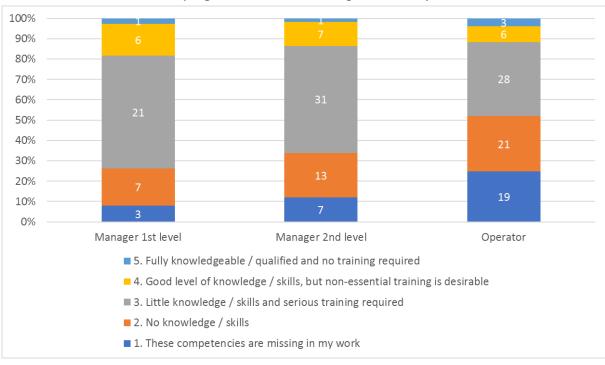


Fig. 21 - Distribution of respondents' answers depending on the position held to the question 4: Developing a sustainable funding model for your RI





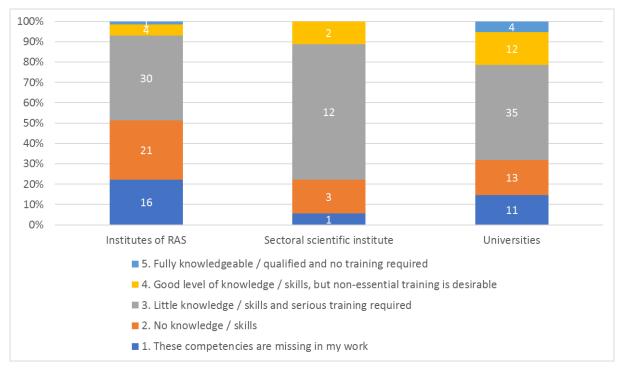


Fig. 22 - Distribution of respondents' answers depending on the type of the represented organization to the question 4: Developing a sustainable funding model for your RI

4.3.5. Question 5. Leadership and Team Management

174 respondents from 184 responded to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 23-25.

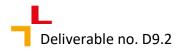
The most common answer is 3. «a little knowledge/skill but considerable development required»: 83 from 174 (48%). The total share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 29 answers (16%).

The part of answers 3 varies within thematic domains from 35% for Social sciences and humanities to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answers with low competencies within the field of Environmental sciences 32%, in the remaining thematic domains, the share of answers ranges from 0% (for Energy) to 14% (for Physical sciences and engineering).

The distribution of answers by type of position (Figure 24) shows that basically the answers are 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» accounted for by the operators. The answers 4. «good level of knowledge/skill displayed, with a little development required» its maximum values in the answers of 1st level Managers – 63 %, while for 2nd level Managers and operators it is at the level of 36 and 22%.

The distribution of answers by organization type (Figure 25) shows that 20% of answers 1. *«this competency is not applicable to my job* and 2. no knowledge/skill» found among RAS representatives, which is the highest value among all organizations (research center - 6 %,





university - 17%). The answers 3. «a little knowledge/skill but considerable development required» constitute 53, 78 and 35% among the RAS representatives, research center and universities, respectively. The part of answers 4. «good level of knowledge/skill displayed, with a little development required» and 5. «fully knowledgeable/skilled — no/very little development required» collected to 27, 17 and 48% for RAS, research center and universities, respectively.

Thus, the competence of this question is absence higher in Environmental sciences domain to a greater extent from operators and also representatives of RAS. The big part of answer 3. «a little knowledge/skill but considerable development required» indicates the need for training for this competence.

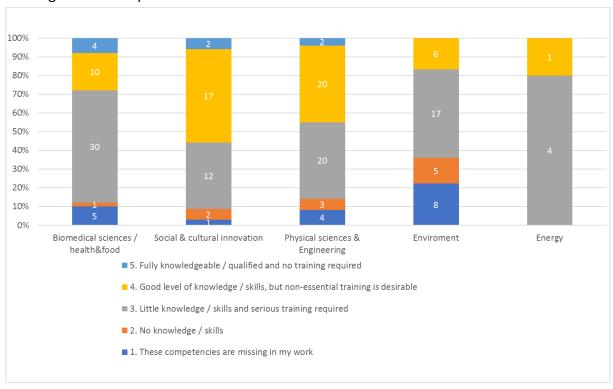
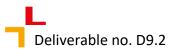


Fig. 23 - Distribution of respondents' answers within thematic domains to the question 5: Leadership and Team Management





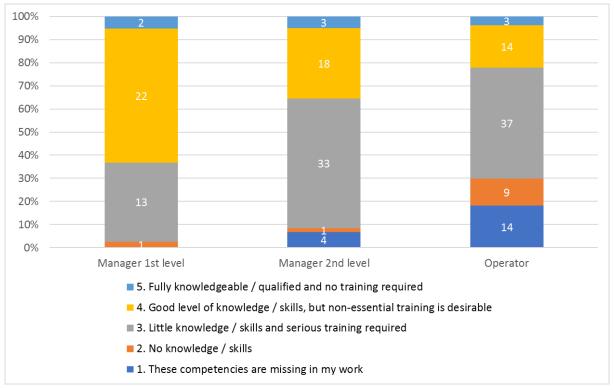


Fig. 24 - Distribution of respondents' answers depending on the position held to the question 5: Leadership and Team Management

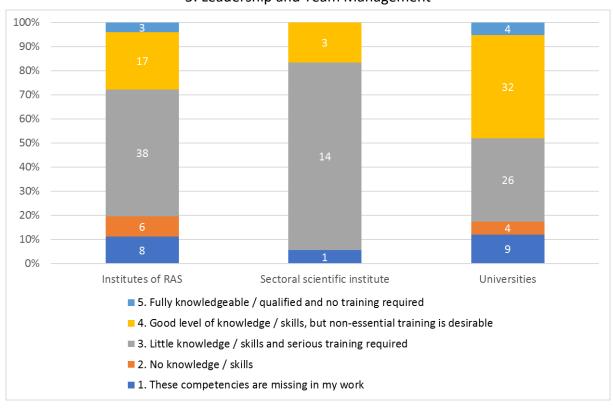
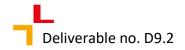


Fig. 25 - Distribution of respondents' answers depending on the type of the represented organization to the question 5: Leadership and Team Management





4.3.6. Question 6. Service Management

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 26-28.

The most common answer is 3. «a little knowledge/skill but considerable development required»: 78 from 174 (45%). The share of answer 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 66 answers (38%).

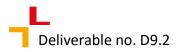
The share of answer 3 varies within thematic domains from 37% for Social sciences and humanities to 60% for Energy. The distribution of answers within thematic domains shows the predominance of answer 3 \ within the field of Environmental sciences 52%, in the remaining thematic domains, the share of answers ranged from 32% (for Biomedical sciences/health and food) to 40% (for Energy).

The distribution of answers by type of position (Figure 27) shows that basically the answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» submitted by the operators. The answer 4. «good level of knowledge/skill displayed, with a little development required» was found in feedback of the 1st level managers and the 2nd level managers – 22 %, while for operators it was ~13%.

The distribution of answers by organization type (Figure 28) shows that 45% of answers 1. "this competency is not applicable to my job" and 2. "no knowledge/skill" were found among RAS representatives; the number of the latter was the largest of all organizations (research center - 33 %, university - 34%). The answer 3. "a little knowledge/skill but considerable development required" constituted 43, 44 and 45% among the RAS representatives, research center and universities, respectively. The share of answers 4. "good level of knowledge/skill displayed, with a little development required" and 5. "fully knowledgeable/skilled – no/very little development required" was ~ 10, 22 and 21% for RAS, research center and universities, respectively.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.





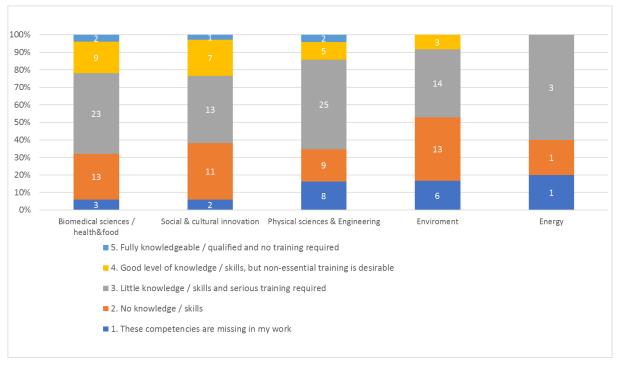


Fig. 26 - Distribution of respondents' answers within thematic domains to the question 6:

Service Management

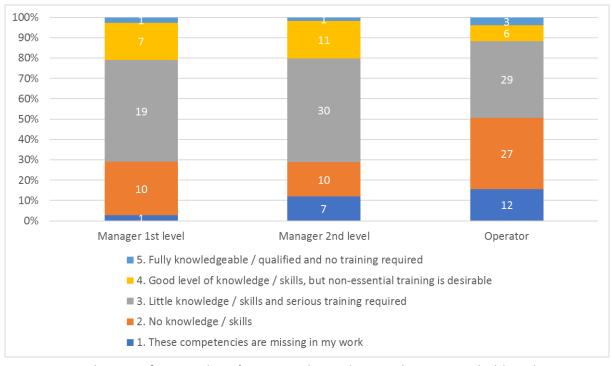
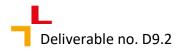


Fig. 27 - Distribution of respondents' answers depending on the position held to the question 6: Service Management





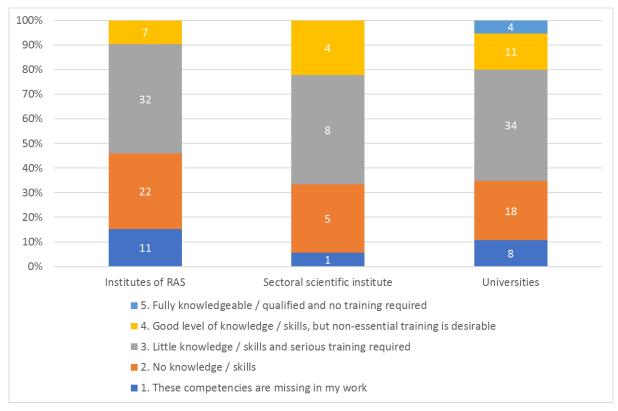


Fig. 28 - Distribution of respondents' answers depending on the type of the represented organization to the question 6: Service Management

4.3.7. Question 7 International Law and Compliance

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 29-31.

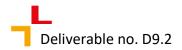
The most common answer is 3. «a little knowledge/skill but considerable development required»: 87 from 174 (50%). . The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 68 answers (39%).

The share of answers 3 varies within thematic domains from 44% for Social sciences and humanities to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answer3 within the field of Environmental sciences 53%, in the remaining thematic domains, the share of answers ranged from 0% (for Energy) to 44% (for Social sciences and humanities).

The distribution of answers by type of position (Figure 30) shows that basically the answers 1. "this competency is not applicable to my job" and 2. "no knowledge/skill" were submitted by the 2nd level managers and operators. The answer 4. "good level of knowledge/skill displayed, with a little development required" was presented in feedback of 2nd level managers, while for the 1st level managers and operators it was ~ 8 and 11%.

The distribution of answers by organization type (Figure 31) shows that 44% of answers 1. «this competency is not applicable to my job and 2. no knowledge/skill» were presented





among RAS representatives; the number of the latter was the largest of all organizations (research center - 17 %, university - 29%). The answer 3. «a little knowledge/skill but considerable development required» constituted 53, 76 and 43% among the RAS representatives, research center and universities, respectively. The share of answers 4. «good level of knowledge/skill displayed, with a little development required» and 5. «fully knowledgeable/skilled – no/very little development required» was ~ 4, 4 and 17% for RAS, research center and universities, respectively.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.

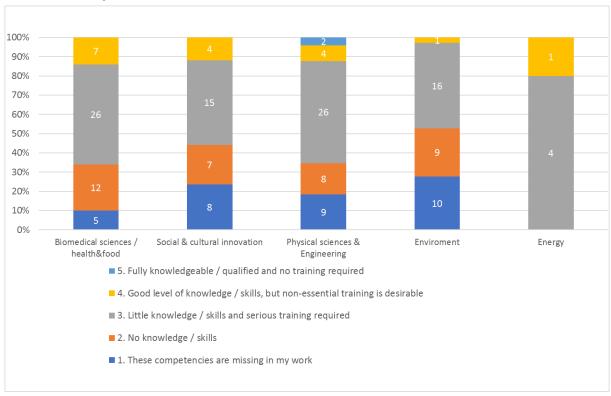
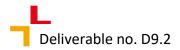


Fig. 29 - Distribution of respondents' answers within thematic domains to the question 7: International Law and Compliance





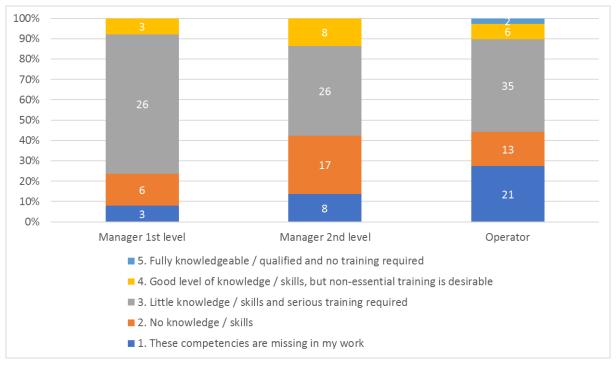


Fig. 30 - Distribution of respondents' answers depending on the position held to the question 7: International Law and Compliance

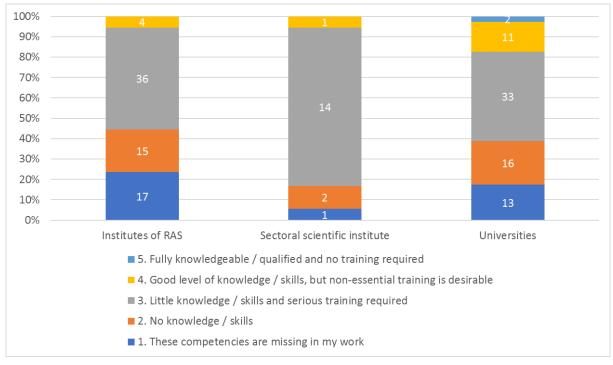
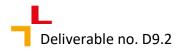


Fig. 31 - Distribution of respondents' answers depending on the type of the represented organization to the question 7: International Law and Compliance

4.3.8. Question 8 Infrastructure and Resource Management

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 29-31.





The most common answer is 3. «a little knowledge/skill but considerable development required»: 87 from 174 (50%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 68 answers (39%).

The share of answers 3 varies within thematic domains from 44% for Social sciences and humanities to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answer3 within the field of Environmental sciences 53%, in the remaining thematic domains, the share of answers ranged from 0% (for Energy) to 44% (for Social sciences and humanities).

The distribution of answers by type of position (Figure 30) shows that basically the answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» were submitted by the 2nd level managers and operators. The answer 4. «good level of knowledge/skill displayed, with a little development required» was presented in feedback of 2nd level managers, while for the 1st level managers and operators it was ~ 8 and 11%.

The distribution of answers by organization type (Figure 31) shows that 44% of answers 1. *«this competency is not applicable to my job* and 2. *no knowledge/skill»* were found among RAS representatives; the number of the latter was the largest of all organizations (research center - 17 %, university - 29%). The answer 3. *«a little knowledge/skill but considerable development required»* constituted 53, 76 and 43% among the RAS representatives, research center and universities, respectively. The share of answers 4. *«good level of knowledge/skill displayed, with a little development required»* and 5. *«fully knowledgeable/skilled – no/very little development required»* was ~ 4, 4 and 17% for RAS, research center and universities, respectively.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.





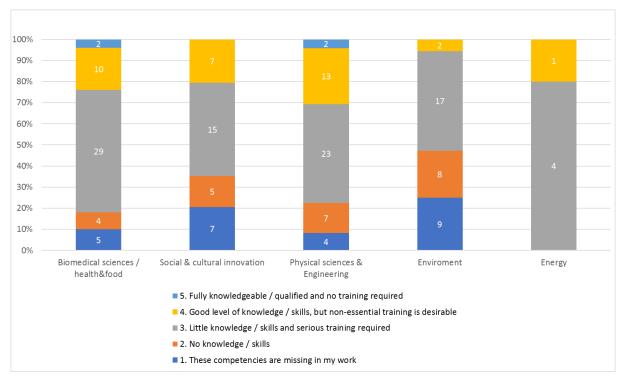


Fig. 32 - Distribution of respondents' answers within thematic domains to the question 8: Infrastructure and Resource Management

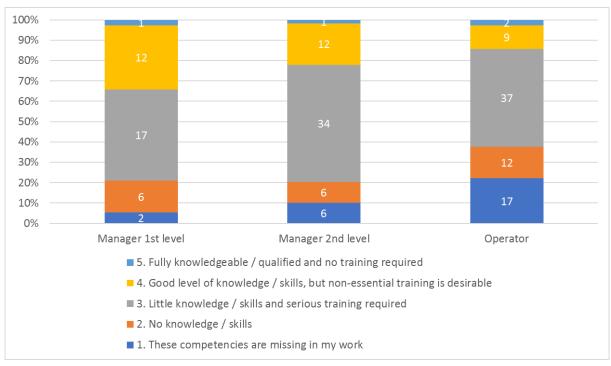
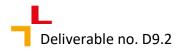


Fig. 33 - Distribution of respondents' answers depending on the position held to the question 8: Infrastructure and Resource Management





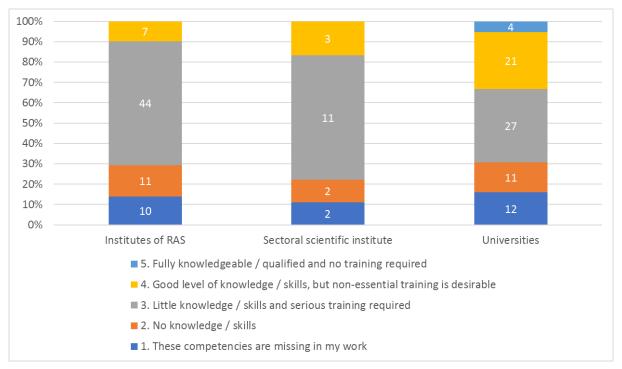


Fig. 34 - Distribution of respondents' answers depending on the type of the represented organization to the question 8: Infrastructure and Resource Management

4.3.9. Question 9. Raising Awareness

172 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 35-37.

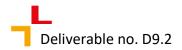
The most common answer is 3. «a little knowledge/skill but considerable development required»: 93 from 172 (54%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 47 answers (27%).

The share of answer 3 varies within thematic domains from 52% for Physical sciences and engineering to 60% for Energy. The distribution of answers within thematic domains shows the predominance of answer 3 within the field of Environmental sciences 47%, in the remaining thematic domains, the share of answers ranged from 15 % (for Social sciences and humanities) to 30% (for Biomedical sciences/health and food).

The distribution of answers by type of position (Figure 36) shows that basically the answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» were submitted by the operators. The answer 4. «good level of knowledge/skill displayed, with a little development required» was presented in the 1st level managers—35%, while for the 2nd level managers and operators the share was ~ 22 and 15%.

The distribution of answers by organization type (Figure 37) shows that 30% of answers 1. *«this competency is not applicable to my job* and 2. *no knowledge/skill»* was found among University representatives, the number of the latter was the largest of all organizations





(research center - 12 %, RAS - 28%). The answers 3. «a little knowledge/skill but considerable development required» constituted 61, 61 and 36% among the RAS representatives, research center and universities, respectively. The share of answers 4. «good level of knowledge/skill displayed, with a little development required» and 5. «fully knowledgeable/skilled – no/very little development required» was ~ 10, 17 and 34% for RAS, research center and universities, respectively.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills

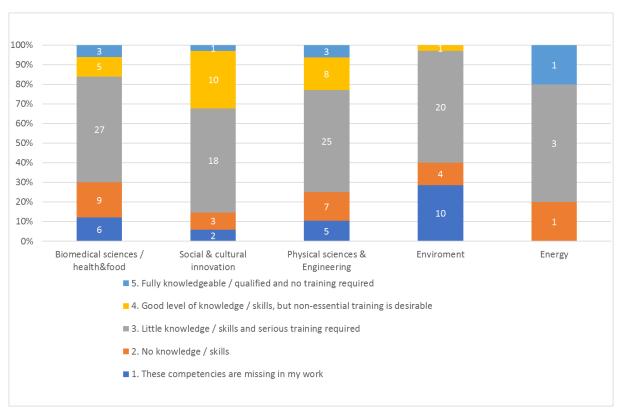


Fig. 35 - Distribution of respondents' answers within thematic domains to the question 9:

Raising Awareness





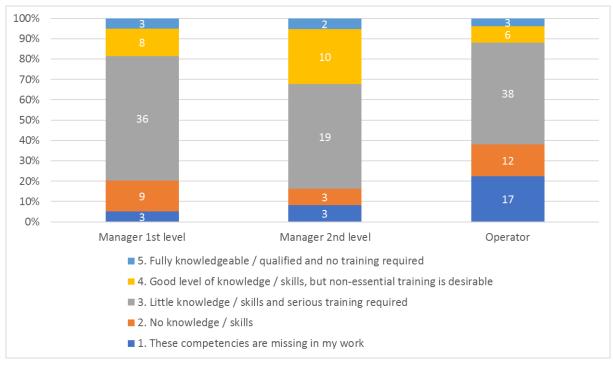


Fig. 36 - Distribution of respondents' answers depending on the position held to the question 9: Raising Awareness

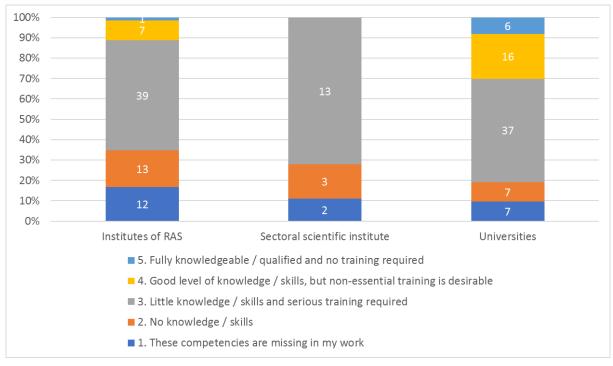
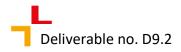


Fig. 37 - Distribution of respondents' answers depending on the type of the represented organization on the question 9: Raising Awareness

4.3.10. Question 10. International dimension of research infrastructure

172 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 38-40.





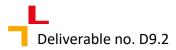
The most common answer is 3. «a little knowledge/skill but considerable development required»: 90 of 172 (52%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was ~54 answers (31%).

The shareof answers 3 varies within thematic domains from 37% for Environmental sciences to 80% for Energy. The distribution of answers within thematic domains shows the predominance of answers 3 within the field of Environmental sciences 51%, in the remaining thematic domains, the share of answers ranged from 20% (for Energy) to 29% (for Physical sciences and engineering).

The distribution of answers by type of position (Figure 39) shows that basically the answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» were submitted by the operators. The answer 4. «good level of knowledge/skill displayed, with a little development required» was presented in feedback of the 1st level managers and the 2nd level managers – 22 %, while for operators it was ~ 13%.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The lar number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop skills





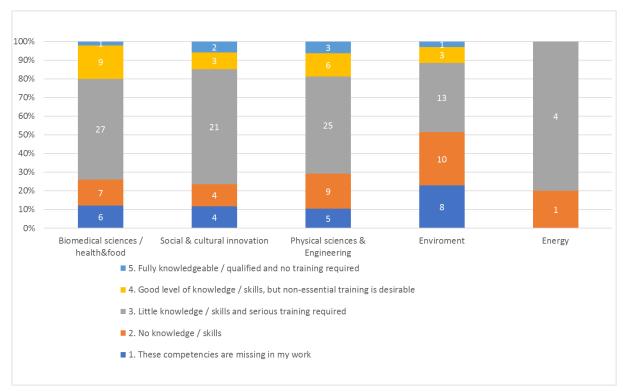


Fig. 38 - Distribution of respondents' answers within thematic domains to the question 10: International dimension of research infrastructure

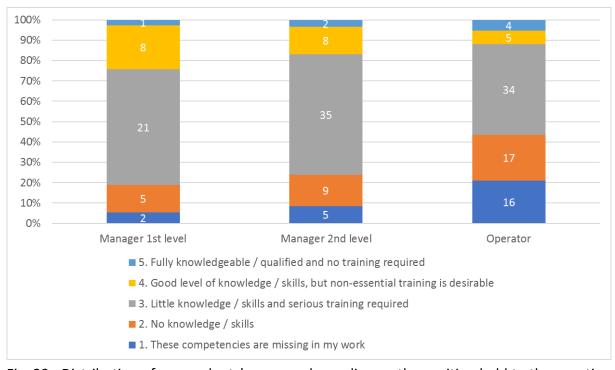
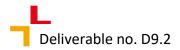


Fig. 39 - Distribution of respondents' answers depending on the position held to the question 10: International dimension of research infrastructure





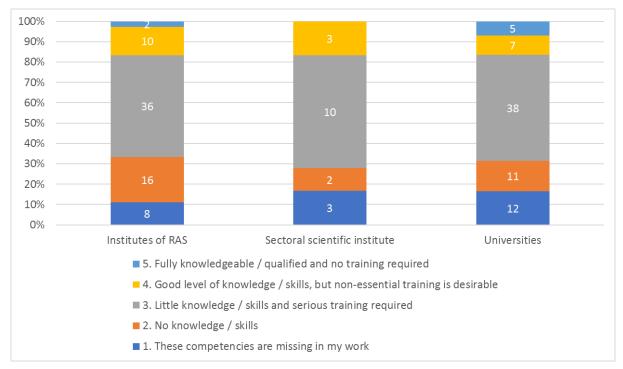


Fig. 40 - Distribution of respondents' answers depending on the type of the represented organization to the question 10: International dimension of research infrastructure

4.3.11. Question 11. Access to research infrastructure and User communities

174 of 184 respondents answered to the question. The distribution of answers by thematic domains, positions of respondents and types of organizations is shown in Figures 41-43.

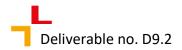
The most common answer is 3. «a little knowledge/skill but considerable development required»: 84 of 174 (48%). The share of answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» was 56 answers (32%).

The share of answer 3 varies within thematic domains from 38% for Social sciences and humanities to 60% for Energy. The distribution of answers within thematic domains shows the predominance of answer 3 within the field of Environmental sciences 42%, in the remaining thematic domains, the share of answer3 ranged from 20% (for Energy) to 35% (for Social sciences and humanities).

The distribution of answers by type of position (Figure 42) shows that basically the answers 1. «this competency is not applicable to my job» and 2. «no knowledge/skill» were submitted by the operators. The answer 4. «good level of knowledge/skill displayed, with a little development required» were presented in feedback of the 1st level managers and the 2nd level managers – 17 %, while for operators it was ~ 15%.

The distribution of answers by organization type (Figure 43) shows that 32% of answers 1. *«this competency is not applicable to my job* and 2. *no knowledge/skill»* were found among RAS representatives, the number of the latter was the largest of all organizations (research center - 28 %, university - 31%). The answer 3. *«a little knowledge/skill but considerable*





development required» constituted 48, 67 and 38% among the RAS representatives, research center and universities, respectively. The share of answers 4. «good level of knowledge/skill displayed, with a little development required» and 5. «fully knowledgeable/skilled – no/very little development required» was ~ 14, 5 and 26% for RAS, research center and universities, respectively.

Thus, the expertise in this domain was not identified in Environmental sciences domain and to a greater extent for operators and also representatives of RAS. The large number of answer 3. «a little knowledge/skill but considerable development required» indicates the need to develop these skills.

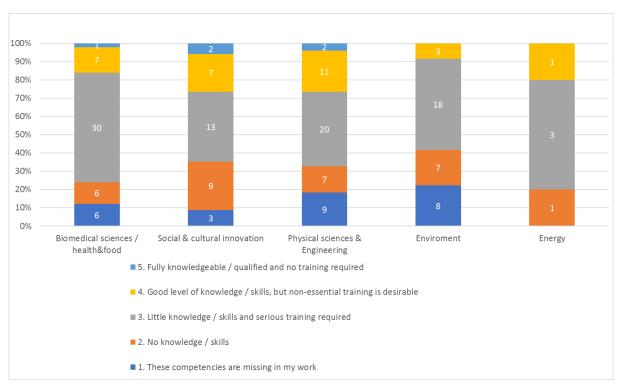


Fig. 41 - Distribution of respondents' answers within thematic domains to the question 11:

Access to research infrastructure and User communities





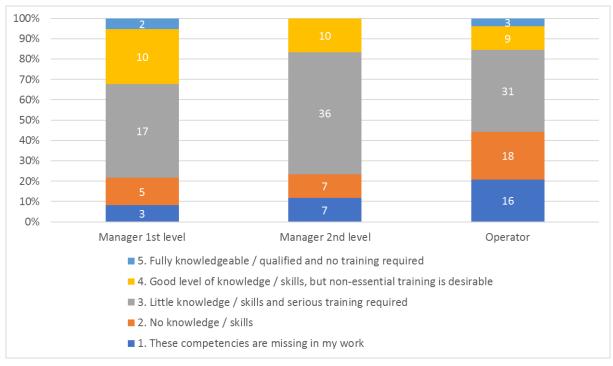


Fig. 42 - Distribution of respondents' answers depending on the position held to the question 11: Access to research infrastructure and User communities

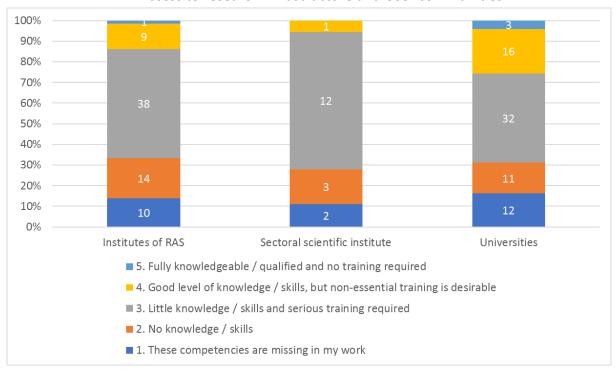
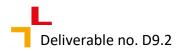


Fig. 43 - Distribution of respondents' answers depending on the type of the represented organization to the question 11: Access to research infrastructure and User communities

5. Exchange the experience and knowledge section

In this section, the respondents named a number of trainings courses, schools, workshops, which cover different issues related to research infrastructure management and in which

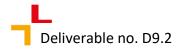




they would like to participate (Annex 4. List of training courses /workshops/schools/conferences, based on suggestions of respondents).

The respondents also named representatives of a number of European and Russian research infrastructures, with whom they would like to meet and discuss problems and topics related to the management of research infrastructures.





6. Conclusions and recommendations

Given the fact that at the final stage we have received 184 questionnaires from 105 organizations, together with deteriorating the situation of COVID-19 pandemic, the decision on postponing of the face-to-face interviews has been made.

Based on questionnaires analysis the following statements can be concluded:

- 1. The provided selections is statistically significant. It contains 35 questionnaires of each thematic domain except Energy;
- 2. The analysis of distribution of respondents on the position in the organization has been provided. The analysis reveal that the main part of respondents are operators;
- 3. The analysis of the collected questionnaires by types of scientific organizations has carried out. The analysis shows that all scientific organizations are almost equally represented in the selection, although the deviations from the average towards universities are occurs in the thematic domains for Social, Energy. In the Environmental domain the situation is opposite RAS representatives are predominate;
- 4. Based on the answers of the second part of questionnaires the common problems of the organizations have been set out and systematized. The most frequently displayed problem is the infrastructure management and organization. Thus, the management and organization of infrastructure work with approximately the same frequency occurs in all three categories of respondents. Training of specialists, technology transfer are more common problems cited by the managers of the 1st level. Attracting and working with users are more common problems cited by managers of the 2nd level. The operators indicate cooperation, including international, as a main problem. Fundraising problems are encountered with approximately the same frequency in the answers of managers of the 1st and 2nd level, but rarely occurs in the answers of operators.
- 5. The main pattern which can be traced in the answers to the questions 1-12 of the 3rd part of questionnaires is following, the common answer weakly depending on the thematic domain, containing from 50 to 100%, is «3. There is little knowledge / skills and serious training is required». As a rule, the level of competence of respondents from the fields of Environmental Sciences and Energy is lower than that of other domains.
- 6. An additional set of courses and trainings is set forth based on the suggestions and concerns of the respondents.
- 7. In order to solve problems identified in the paragraphs 4 and 5, it is proposed to move to the activities focused on the enhancing the general level of managerial competencies of employees of Russian infrastructures in accordance with the tasks 9.1, 9.2 and 9.5 of the work package.



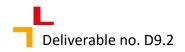


We also offer to conduct surveys with managers and operators selected in the framework of competitive procedures, after completing the training. This will allow us to assess the impact of training on the knowledge and skills of personnel who support the work of Russian research infrastructures.

The survey results will be used to fulfill the following tasks within WP9:

- Launch of a specific "CREMLIN plus Fellowship Programme", aimed at supporting the participation of managers and operators of the RU RIs in thematic and horizontal courses, summer schools and workshops dedicated to improving their skills and ways of managing RU RIs in different thematic areas Task 9.1
- Organization and delivery of staff/knowledge exchanges between EU and RU RIs Task 9.2
- Launch of the Russian fellowship programme to EMMRI Task 9.3
- Launch of the pilot mentoring/coaching Programme for leaders of RU RIs Task 9.4





Annex 1: The Survey

IDENTIFYING THE CHALLENGES IN MANAGING RESEARCH INFRASTRUCTURES IN RUSSIA AND URGENT TRAINING NEEDS

A SURVEY, WP9, CREMLINPlus

This survey is conducted within the CREMLINplus project (Grant 871072) of the EU Research and Innovation Programme Horizon 2020

Website: https://www.cremlinplus.eu/

The main respondents to the survey are the managers and operators of the 11 priority organizations implementing research infrastructures mentioned in the list, recommended by the Ministry of Science and Higher Education of the Russian Federation (LIST-11) and the five Russian megascience projects.

The CREMLINplus project will use the survey results to fulfill the following tasks of the project:

- Identification of managerial challenges facing the Russian research infrastructures (RU RIs);
- Launch of a specific "CREMLIN plus Fellowship Programme", aimed at supporting the participation of managers and operators of the RU RIs in thematic and horizontal courses, summer schools and workshops dedicated to improving their skills and ways of managing RU RIs in different thematic areas;
- Organization and delivery of staff/knowledge exchanges between EU and RU RIs;
- Launch of the pilot mentoring/coaching Programme for leaders of RU RIs.

Research Infrastructures (RIs) are facilities that provide resources and services for research communities to conduct research and foster innovation.

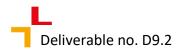
They can be used beyond research e.g. for education or public services and they may be single-sited, distributed, or virtual.

They include major scientific equipment or sets of instruments; collections, archives or scientific data; computing systems and communication networks; any other research and innovation infrastructure of a unique nature which is open to external users.

RIs are run by scientists and technicians (operators) and directed by managers (at multiple levels, e.g. group-, section-, department heads and executives) supported by administrative staff

See also: https://ec.europa.eu/info/research-and-innovation/strategy/european-research-infrastructures en





The CREMLINplus project protects your personal information. The survey results will be stored and used in accordance with the laws of the Russian Federation on the protection of personal data and the EU General Data Protection Regulation 2016/679 (EU GDPR).

We ask you to agree to the use of your personal data for the purposes of the CREMLINplus project.

Do you give your permission to use your data by participating in this survey being used for the purposes of the project CREMLINplus"? Yes No I agree to the processing of my personal data as part of CREMLINplus project **GENERAL INFORMATION** E-mail address Name and Surname Organization Job title/role in the research infrastructure Type of organization + University Institute of the Russian Academy of Sciences International organization Research Center

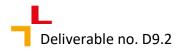
□ Other





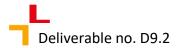
What scientific field/fields does your infrastructure support?						
0	Biomedical sciences/health and food					
0	Energy					
0	Environmental sciences					
0	E-infrastructure					
0	Physical sciences and engineering					
0	Social sciences and humanities					
0	Other:					
At w	hat stage is the Research Infrastructure of your organization?					
⊚	Planning/design phase					
0	Construction phase					
0	Operational phase (within 5 years of construction)					
0	Operational maturity (more than 5 years of construction					
0	n/a					
Missi	on (please, provide a brief description of the organization's mission):					
THE CHALLENGES IN MANAGING YOUR RESEARCH INFRASTRUCTURE AND RELATED URGENT TRAINING NEEDS 1. Name your Research Infrastructure's management/leadership challenges and related						
traini	ng needs you feel most relevant (Up to 3 points)					





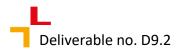
2. Please, provide more detailed information on your Research Infrastructure's highest priority management/leadership problems and related training needs (addition to point I)				
F	PLEASE, RATE YOUR DEGREE OF SKILL / KNOWLEDGE IN EACH OF THE ITEMS BELOW RELATED TO MANAGING RESEARCH INFRASTRUCTURES			
SI	ELF-ASSESSMENT OF YOUR KNOWLEDGE/SKILLS IN THE ITEMS BELOW RELEVANT TO DIFFERENT ASPECTS OF MANAGING RESEARCH INFRASTRUCTURES			
infra the	Governance and Organization (design the governance structure of the research astructure, assign roles and responsibilities within the RI, set up of operating systems of organization, assign performance targets and monitor results of different organizational as/nodes)			
0	1 = this competency is not applicable to my job			
0	2 = No knowledge/skill			
•	3 = A little knowledge/skill but considerable development required			
\circ	4 = Good level of knowledge/skill displayed, with a little development required			
0	5 = fully knowledgeable/skilled – no/very little development required			
Please add any further details on features of governance and organization of your organization's research infrastructure				
defi	trategic Management and Business Innovation (understanding the ecosystem of the RI, ne the business model and develop the business plan of the RI, translating mission and on into a strategic plan, understanding how to monitor the strategy execution) 1 = this competency is not applicable to my job			
0	2 = No knowledge/skill			
•	3 = A little knowledge/skill but considerable development required			





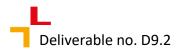
0	4 = Good level of knowledge/skill displayed, with a little development required				
0	5 = fully knowledgeable/skilled – no/very little development required				
	Please add any further details on features of strategic management and business innovation within your organization's research infrastructure				
and	inancial Management (understanding how to interpret financial data, balance sheets cash flow, understanding the costs of different service lines, understanding how to nitor spending, expenses and budgets, understanding how to develop a financial plan)				
0	1 = this competency is not applicable to my job				
0	2 = No knowledge/skill				
•	3 = A little knowledge/skill but considerable development required				
0					
0	5 = fully knowledgeable/skilled – no/very little development required				
	se add any further details on features of financial management within your anization's research infrastructure				
proj	otiating with potential funders; new funding tools: private-public partnerships, special ects, commercial funding, fee for service, consultancy, the evaluation of investment ects)				
0	1 = this competency is not applicable to my job				
0	2 = No knowledge/skill				
•	3 = A little knowledge/skill but considerable development required				
0	4 = Good level of knowledge/skill displayed, with a little development required				
0	5 = fully knowledgeable/skilled – no/very little development required				





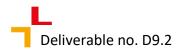
Please add any further details if you have the experience of developing a sustainable funding model for your research infrastructure				
thei a co and o o o	Readership and Team Management (envision the future, engage people and support of the rempowerment, understanding how to influence, inspire and motivate others, building the summon vision among stakeholders and organizations, managing efficiently interpersonal organizational conflicts, understanding how to give constructive feedback to teams) 1 = this competency is not applicable to my job 2 = No knowledge/skill 3 = A little knowledge/skill but considerable development required 4 = Good level of knowledge/skill displayed, with a little development required 5 = fully knowledgeable/skilled – no/very little development required ase add any further details on features of leadership and team management within organization's research infrastructure			
orga	Service Management (understanding how to develop new service solutions in the anization, knowing how to challenge standard practices and current procedures, lementing best practice methods within the organization) 1 = this competency is not applicable to my job 2 = No knowledge/skill 3 = A little knowledge/skill but considerable development required 4 = Good level of knowledge/skill displayed, with a little development required 5 = fully knowledgeable/skilled – no/very little development required			





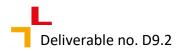
Please add any further details on features service management within your organization's research infrastructure			
sett	nternational Law and Compliance (compliance with laws and regulations in different ings, public procurement, contract issues in different settings: IPR regulations and data material sharing, privacy and ethical issues) 1 = this competency is not applicable to my job		
0	2 = No knowledge/skill		
•	3 = A little knowledge/skill but considerable development required		
0	4 = Good level of knowledge/skill displayed, with a little development required		
	5 = fully knowledgeable/skilled – no/very little development required		
	se add any further details if you have the experience of implementing international in managing your research infrastructure		
mar com	Infrastructure and Resource Management (research and administrative data nagement: storage of data, archiving, privacy, data protection and sharing issues; upliance with national and international regulations, best practices and standards; uting a disaster mitigation and recovery plan)		
0	1 = this competency is not applicable to my job		
0	2 = No knowledge/skill		
400			
•	3 = A little knowledge/skill but considerable development required		
0 0	3 = A little knowledge/skill but considerable development required4 = Good level of knowledge/skill displayed, with a little development required		





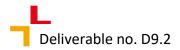
Please add any further details if you have the experience of infrastructure and resource management within your research infrastructure				
 9. Raising Awareness (target communication to different groups, identify relevant stakeholders such as: public or scientific community, the organization [employees], policy makers and funding bodies; choosing the right communication channel to maximize impact, core elements of a successful branding strategy, communicating value creation and impact) 1 = this competency is not applicable to my job 2 = No knowledge/skill 3 = A little knowledge/skill but considerable development required 4 = Good level of knowledge/skill displayed, with a little development required 5 = fully knowledgeable/skilled – no/very little development required 				
your research infrastructure				
10. International dimension of research infrastructure (strategy for promoting RI in global science and education space and attracting international users; ensuring long-term cooperation with foreign RIs on different issues, e.g. for joint development of instrumentation; providing the international trainings for User communities; managing data/experience / knowledge exchange with foreign partners; managing the participation of the infrastructure in European and other international programmes, projects and initiatives) 1 = this competency is not applicable to my job 2 = No knowledge/skill				
3 = A little knowledge/skill but considerable development required 4 = Good lovel of knowledge/skill displayed, with a little development required				
4 = Good level of knowledge/skill displayed, with a little development required 5 = fully knowledgeable/skilled – no/very little development required				





Please add any further details if you have the experience on involvement of your research infrastructure into international cooperation and related activities:				
11. Access to research infrastructure and User communities (establishing the Access policy [by defining the Access modes, fees and costs, the selection process, the eligibility and restriction criteria, the data management plan, confidentiality and data protection issues, IPR and ethical issues; the safety and health regulations and the measures supporting the users travel and accommodation; the experience of providing access to infrastructure and managing a specialized website]; developing a strategy to promote the infrastructure among possible user groups; establishing a strategy to create a User Community and to integrate it in the RIs development)				
1 = this competency is not applicable to my job				
2 = No knowledge/skill				
3 = A little knowledge/skill but considerable development required				
4 = Good level of knowledge/skill displayed, with a little development required				
5 = fully knowledgeable/skilled – no/very little development required				
Please add any further details on the experience of providing access to your research infrastructure				
EXCHANGING THE EXPERIENCE AND KNOWLEDGE 1. Please, list any topics relevant to your personal management/leadership development and training needs (up to 3 points)				

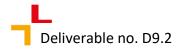




II. Exchanging the experience / knowledge (please, name representatives of European and Russian research infrastructures, specific groups of people with whom you would like to meet and discuss problems and topics related to the management of research infrastructures)
III. Exchanging experience / knowledge (please, name trainings /summer schools/workshops/courses/programmes, which cover different issues related to research infrastructure management and in which you would like to participate)

Thank you very much for participating in the survey!

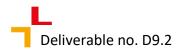




Annex 2: The list of the survey recipients

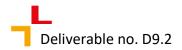
N	email	Surname, Name,	Organization
		patronymic	
1	aleksandr.dvoynikov@tsagi.ru	Dvoinikov	Central Aerohydrodynamic
		Alexander	Institute
		Alexandrovich	
2	vjaz@meteo.ru	Vyazilov Evgeny	All-Russian Scientific Research
		Dmitrievich	Institute of
			Hydrometeorological
			Information - World Data
			Center (VNIIGMI-WDC)
3	grisha@ms2.inr.ac.ru	Rubtsov Grigory	Federal State Budgetary
		Igorevich	Institution of Science Institute
			for Nuclear Research of the
			Russian Academy of Sciences
4	cp-secr@crys.ras.ru	Dadinova Lyubov	Federal Research Center
		Alexandrovna	"Crystallography and
			Photonics" RAS
5	A.S.Arakcheev@inp.nsk.su	Alexey	Budker Institute of Nuclear
		Arakcheev	Physics of SB RAS
6	ksfursov@hse.ru	Fursov	National Research University
		Konstantin	Higher School of Economics
		Sergeevich	
7	lacerta999@gmail.com	Sotnikova Yulia	Special Astrophysical
		Vladimirovna	Observatory of the Russian
			Academy of Sciences (SAO
			RAS)
8	mmp@bionet.nsc.ru	Moshkin Mikhail	Federal Research Center
		Pavlovich	Institute of Cytology and
			Genetics SB RAS
9	eagorodnova@mail.ru	Elena	Federal State Budgetary
		Alexandrovna	Institution "National Medical
		Gorodnova	Research Center for
			Obstetrics, Gynecology and
			Perinatology named after
			Academician V.I. Kulakov" of
			the Ministry of Health of the
			Russian Federation





10	alexis.savel@gmail.com	Savelyev Alexey	"Center for Medical
10	alexis.savei@gmail.com	Anatolievich	Accreditations" of the Science
		Anatollevich	
			Park of St. Petersburg State
			University
11	kucerka@nf.jinr.ru	Kucherka	Joint Institute for Nuclear
		Norbert	Research
12	senin_ra@nrcki.ru	Senin Roman	National Research Center
		Alekseevich	"Kurchatov Institute"
13	Natalia.Polukhina@cern.ch	Polukhina Natalia	National University of Science
		Gennadievna	Technology "MISiS"
14	vvlassao@gmail.com	Vlasyuk Valery	Federal State Budgetary
	- 0	Valentinovich	Institution of Science Special
			Astrophysical Observatory of
			the Russian Academy of
			Sciences
15	vanykm@gmail.com	Vasilenko	
15	vanvkm@gmail.com		, , , , , , , , , , , , , , , , , , , ,
		Alexander	Biochemistry and Physiology
		Nikolaevich	of Microorganisms of the
			Russian Academy of Sciences
16	m.baturova@spbu.ru	Baturova Maria	Saint Petersburg State
		Albertovna	University (SPbSU), Science
			Park
17	mpokrovskaia@list.ru	Pokrovskaya	FSBI "National Medical
		Maria Sergeevna	Research Center of Therapy
			and Preventive Medicine" of
			the Ministry of Health of
			Russia
18	n-dukhova@mail.ru	Dukhova Natalia	MRRC them. A.F. Tsyba -
		Nikolaevna	branch of the Federal State
			Budgetary Institution
			"National Medical Research
			Center of Radiology" of the
			Ministry of Health of Russia
19	natalyahaz@ya.ru	Comyonova	-
19	natalyabez@ya.ru	Semyonova	MRRC them. A.F. Tsyba -
		Natalia	branch of the Federal State
		Sergeevna	Budgetary Institution
			"National Medical Research
			Center of Radiology" of the
			Ministry of Health of Russia





20	combarday stac Quanday ru	Cambardin	MADDC thom A.E. Toubo
20	samborsky.stas@yandex.ru	Samborskiy	MRRC them. A.F. Tsyba -
		Stanislav	branch of the Federal State
		Mikhailovich	Budgetary Institution
			"National Medical Research
			Center of Radiology" of the
			Ministry of Health of Russia
21	lemi@miee.ru	Kukin Vladimir	Federal State Autonomous
		Nikolaevich	Educational Institution of
			Higher Education "National
			Research University" Moscow
			Institute of Electronic
			Technology "
22	inter_otdel@mail.ru	Mullabayeva	FGBU "Scientific Medical
		Svetlana	Research Center for
		Mininkhaevna	Obstetrics, Gynecology and
			Perinatology named after
			Academician V.I.Kulakov" of
			the Ministry of Health of the
			Russian Federation
23	sersel@miee.ru	Selishchev	Federal State Autonomous
		Sergey	Educational Institution of
		Vasilievich	Higher Education "National
			Research University" Moscow
			Institute of Electronic
			Technology "
24	domelyanovich@gmail.com	Omelyanovich	International Research Center
		Dmitry	"Coherent X-ray Optics for
		Alexandrovich	Megasciences" FGAOU VO
			"Immanuel Kant Baltic Federal
			University" (MNITs RO IKBFU)
25	Ivshina@iegm.ru	Ivshina Irina	Institute of Ecology and
		Borisovna	Genetics of Microorganisms -
			Branch of the Federal State
			Budgetary Institution of
			Science of the Perm Federal
			Research Center of the Ural
			Branch of the Russian
			Academy of Sciences
26	Alexey.kurochkin@spbu.ru	Alexey Kurochkin	Saint Petersburg State
	, - 1	,	9





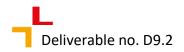
			University
27	andrey.romanychev@spbu.ru	Romanychev	Saint Petersburg State
	, , , , , , ,	Andrey Ivanovich	University
28	artem.muravev@nasbio.ru	Muraviev Artem	National Association of
		Igorevich	Biobanks and Biobanking
			Professionals (NASBio)
29	grivtsova@mail.ru	Grivtsova	MRRC them. A.F. Tsyba -
		Lyudmila	branch of the Federal State
		Yurievna	Budgetary Institution of
			National Medical Research
			Center of Radiology of the
			Ministry of Health of Russia
30	samardak.as@dvfu.ru	Samardak	Far Eastern Federal University
		Alexander	
		Sergeevich	
31	ognevav@gmail.com	Ognev Alexey	Far Eastern Federal University
		Vyacheslavovich	
32	taskaev@inp.nsk.su	Taskaev Sergey	Institute of Nuclear Physics SB
		Yurievich	RAS
33	decan46@yandex.ru	Sheveleva	Southwestern State University
		Svetlana	
2.4	W 100 "	Viktorovna	
34	onoff_10@mail.ru	Dmitry A. Belov	Institute for Analytical
25		IDINIA IVANIOVAIA	Instrumentation RAS (IAP RAS)
35	nadelyaeva@med.ru	IRINA IVANOVNA	Federal State Budgetary
		NADELYAEVA	Scientific Institution
			"Petrovsky Russian Scientific
36	sci-socrotary@ism as ru	Kamunina Olaa	Center for Surgery " Institute of Structural
30	sci-secretary@ism.ac.ru	Kamynina Olga Konstantinovna	Macrokinetics, Russian
		Konstantinovna	Academy of Sciences (Russian
			acronym ISMAN)
37	akolpashchikova@gaugn.ru	Kolpashchikova	State Academic University for
	a sile account and bands in a	Anastasia	the Humanities (GAUGN)
		Andreevna	,
38	vniikormov@mail.ru	Dumacheva	FWRC FPA (previously, the All-
		Elena	Russian Williams Fodder
		Vladimirovna	Research Institute)
39	dmitrserg@gmail.com	Dmitrenko	FSBSI Institute for Linguistic
	l	I.	<u> </u>





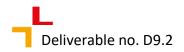
		Sergey Yurievich	Research RAS
40	obogarkov@mail.ru	Ogarkov Oleg Borisovich	FEDERAL STATE BUDGETARY SCIENTIFIC INSTITUTION "RESEARCH CENTER FOR FAMILY HEALTH AND HUMAN REPRODUCTION"
41	kuzenkov_se@stu.lipetsk.ru	Kuzenkov Sergey Evgenievich	Federal State Budgetary Educational Institution of Higher Education "Lipetsk State Technical University"
42	belalina04@gmail.com	Sonina Alina Alexandrovna	Novosibirsk Institute of Organic Chemistry. N.N. Vorozhtsov SB RAS
43	olsia-soboleva@bk.ru	Soboleva Olga Nikolaevna	Federal State Budgetary Educational Institution of Higher Education «Vyatka State University» (FSBEI HE «VyatSU»)
44	avredkov@gmail.com	Alexey Redkov	Institute for Problems in Mechanical Engineering of the Russian Academy of Sciences
45	litvinets@list.ru	Litvinets Sergey Gennadievich	Federal State Budgetary Educational Institution of Higher Education «Vyatka State University» (FSBEI HE «VyatSU»)
46	volkova.obninsk@gmail.com	Volkova Polina Yurievna	Federal State Budgetary Educational Institution All- Russian Scientific Research Institute of Radiology and Agroecology
47	knyazevyegor@mail.ru	Knyazev Egor Vladimirovich	Omsk Scientific Center SB RAS
48	d_disa@mail.ru	Davydov Denis Alexandrovich	Polar-Alpine Botanical Garden- Institute
49	boris.kozelov@gmail.com	Kozelov Boris Vladimirovich	FGBNU "Polar Geophysical Institute"
50	mikhail.podlutskii@gmail.com	Podlutsky Mikhail	Federal State Budgetary Scientific Institution "All-





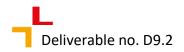
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		Andreevich	Scientific Institution "All-
			Russian Scientific Research
			Institute of Radiology and
			Agroecology"
52	podobedmyu@gmail.com	Podobed Marina	Ministry of Science and Higher
		Yurievna	Education of the Russian
			Federation Russian Institute of
			Radiology and Agroecology
53	anfiyj@gmail.com	Anfinogenova	Tomsk National Research
		Nina Dzhonovna	Medical Center of the Russian
			Academy of Sciences
54	larkina.tasya@yandex.ru	Larkina Taisiya	Peoples' Friendship University
		Igorevna	of Russia (RUDN) University
55	romanov_valera@mail.ru	Romanov Valery	Federal State Budgetary
		Stanislavovich	Scientific Institution "Federal
			Scientific Center for Vegetable
			Growing" (FGBNU FNTSO)
56	inst.biomed.chem@gmail.com	Emelyanova	The Institute of Biomedical
	_	Daria Leonidovna	Chemistry (former Institute of
			Biological and Medical
			Chemistry)
57	bondarenco.e@gmail.com	Bondarenko	FGBNU All-Russian Research
		Ekaterina	Institute of Radiology and
		Valerievna	Agroecology
58	yanai@inbox.ru	Ilyinskaya Yana	Russian State
	, , ,	Anatolyevna	Hydrometeorological
			University (RSHU)
59	olesya.ibmh@gmail.com	Golovko Olesya	Orekhovich Research Institute
	5.55,4	Alekseevna	of Biomedical Chemistry
		, iicksec viid	(IBMKh)
60	kulikovadaska@mail.ru	Kulikova Daria	Bashkir State University
	Kaiikovadaska@iiiaii.i u	Alexandrovna	Bushikii State Offiversity
61	parfonovatm@ingg.chros.ru	Parfenova	Federal State Budgetary
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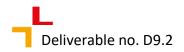
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62	karmanovskayanv@gmail.com	Karmanovskaya	FSBEI HE "Norilsk State
		Natalia	Industrial Institute"
		Vladimirovna	
63	anna.namyatova@gmail.com	Namyatova Anna	Zoological Institute of the
		Alekseevna	Russian Academy of Sciences
64	mikheeva-nf@rudn.ru	Mikheeva Natalia	Peoples' Friendship University
		Fedorovna	of Russia (RUDN) University
65	habibbaty@gmail.com	Al-Shaida Zina	Peoples' Friendship University
		Azzam	of Russia (RUDN) University
		Abdulwahab	
66	cyber-nik@yandex.ru	Oskin Nikolay	Peoples' Friendship University
		Sergeevich	of Russia (RUDN) University
67	sibdrug@mail.ru	Voroshilov Denis	FGAOU VO "Siberian Federal
		Sergeevich	University"
68	marakhova_ai@pfur.ru	Marakhova Anna	Peoples' Friendship University
		Igorevna	of Russia (RUDN) University
69	avponaryadov@geo.komisc.ru	Alexey	IG FRC Komi Scientific Center
		Ponaryadov	Ural Branch of RAS
70	vellkom@list.ru	Countryman	FSBEI HE Priamur State
		Vitaly	University named after Sholem
		Leonidovich	Aleichem
71	mn.priemysheva@yandex.ru	Priemysheva	FSBSI Institute for Linguistic
		Marina	Research RAS
		Nikolaevna	
72	iidanshikova@geo.komisc.ru	Danshchikova	Institute of Geology, FRC Komi
		Irina Ivanovna	Scientific Center, Ural Branch
			of RAS, Syktyvkar
73	Llw000@yandex.ru	Lygina Larisa	FSBEI VO "VGUIT"
		Valerievna	
74	artem_kuzovlev@fnkcrr.ru	Kuzovlev Artem	Federal Scientific and Clinical
		Nikolaevich	Center of Reanimatology and
			Rehabilitation (FNKTs RR)
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		Vladimirovich	Ural Branch of RAS
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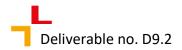
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	, 5	Abdulrazzak	RODIN Offiversity
78	ygrakov@yanddex.ru	Grakova Oksana Vasilievna	Institute of Geology, Federal Research Center, Komi Scientific Center, Ural Branch of the Russian Academy of Sciences
79	smirnova_macha1989@mail.ru	Smirnova Maria Nikolaevna	Federal State Budgetary Institution of Science Institute of General and Inorganic Chemistry. N.S. Kurnakov Russian Academy of Sciences
80	skripkaaa@mgri.ru	Violin Anri Anrievich	engineering center MGRI
81	renchik_vhi@mail.ru	Mikailova Rena Alexandrovna	All-Russian Research Institute of Radiology and Agroecology
82	nii_apk_sar@mail.ru	Dmitry Serdobintsev	FSBSI "PNIIEO APK"
83	iskotik@geo.komisc.ru	Kotik Ivan Sergeevich	Institute of Geology, Komi Science Center, Ural Branch of RAS
84	inf-nii-apk-sar@mail.ru	Zavorotin Evgeny Feofanovich	FSBSI "PNIIEO APK"
85	abdul-77@yandex.ru	Isaev Abdulgalim Budaevich	Dagestan State University
86	dashushkov@geo.komisc.ru	Shushkov Dmitry Alexandrovich	IG FRC Komi Scientific Center Ural Branch of RAS
87	max-12-99@yandex.ru	Nechaev Maxim Sergeevich	Institute of Geology named after N.P. Yushkina
88	markova63@mail.ru	Marina Kovaleva	Novosibirsk State University of Economics and Management (NSUEU)
89	skripkaaa@mgri.ru	Violin Anri Anrievich	Engineering center MGRI
90	kchgu-nauka@mail.ru	Kubanova Marina Nazirovna	Karachay-Cherkess State University named after U.D. Alieva





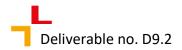
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31	ono.panze manna	Cholpan	University named after U. D.
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92	aliunovan@vogu35.ru	Alyunov	FSBEI HE "Vologda State
32	anunovan@voguss.ru	Alexander	University"
			Offiversity
0.2		Nikolaevich	Bandad Educable Hat and
93	gudkova-ia@rudn.ru	Kochetkova Irina	Peoples' Friendship University
		Andreevna	of Russia
94	alvaly@mail.ru	Kazakova	Ministry of Science and Higher
		Elizaveta	Education of the Russian
		Alexandrovna	Federation Russian Institute of
			Radiology and Agroecology
95	victoria.ed@rirae.ru	Nushtaeva	Federal State Budgetary
		Victoria	Scientific Institution "All-
		Eduardovna	Russian Scientific Research
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96	popov-va@rudn.ru	Popov Vladimir	Peoples' Friendship University
		Alekseevich	of Russia
97	ruslan.saduov@gmail.com	Ruslan	FSBEI HE "Bashkir State
		Talgatovich	University"
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98	pinchme@mail.ru	Pinchuk Mikhail	Federal State Budgetary
		Ernestovich	Institution of Science Institute
			of Electrophysics and Electric
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			Academy of Sciences (IEE RAS)
99	fnv-tgp@mail.ru	Yamaletdinova	Institute of Law of the Bashkir
		Natalia	State University
		Vladimirovna	
100	self88@yandex.ru	Shuisky,	Institute of Geology, FRC Komi
		Alexander	Scientific Center, Ural Branch
		Sergeevich	of RAS
101	zubkov_av@pfur.ru	Zubkov	Federal State Autonomous
	_ ·	Alexander	Educational Institution of
		Vladimirovich	Higher Education "Peoples"
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			Russia"
102	naila61@mail.ru	Orazova Nayla	FSBEI HE "KARACHAYEVO-
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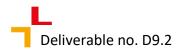
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103	bev@vniisoi.ru	Banetskaya	FSBSI All-Russian Research
		Evgeniya	Institute of Soybeans
16.		Valerievna	
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105	0 " '		Treatment
105	maa@vniisoi.ru	Malashonok	FGBNU All-Russian Research
		Anastasia	Institute of Soybeans
100	ha:-ila04@maail.aaaa	Alexandrovna	Fordayal Chair D. L.
106	baizile94@gmail.com	Sukhanov	Federal State Budget
		Alexander	Education Institution of Higher
		Sergeevich	Education «Irkutsk National
107		Ch a mar a la a	Research Technical University»
107	alacher@list.ru	Chernyshova	Research Institute of Oncology
		Alena	TNIMTS
100	Kuaka da @husiu	Leonidovna	Transport Indicated I Indicated
108	Kuskovkv@tyuiu.ru	Kuskov	Tyumen Industrial University
		Konstantin	
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109	mae777@mail.ru	Mishurnov	UNPC "STM" Omsk State
		Alexander	Technical University (OmSTU)
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110	kristin-kop@inbox.ru	Kopyeva Kristina	Research Institute of
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111	konstzav@gmail.com	Zavadovsky	Research Institute of
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442	matalian Ginfa da and	Valerievich	Towns Condition 5
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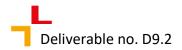
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117	ddd1978@inbox.ru	Danilov Andrey	FSBEI HE Khakass State
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118	maria.litvinova.2015@yandex.ru	Litvinova Maria	FGBNU NIIR them. V.A.
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119	zlobinae@mail.ru	Kaigorodova	Research Institute of
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121	nrprorector@volsu.ru	Dzedik Valentin	Volgograd State University
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122	popov_a_u@list.ru	Popov Andrey	Omsk State Technical
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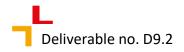
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		Andreevich	University
128	brilly08@mail.ru	Anikeeva	Federal State Budgetary
		Ekaterina	Scientific Institution "Research
		Sergeevna	Institute for Complex
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129	ponomarev_dmitr@mail.ru	Dmitry	Federal State Autonomous
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		Evgeny	Scientific Institution "Research
		Andreevich	Institute for Complex
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131	dunaeva_e@niishk.ru	Dunaeva	FGBUN "Research Institute of
		Elizaveta	Agriculture of Crimea"
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132	amak@inbox.ru	Makhnach	Institute of Psychology RAS
		Alexander	
		Valentinovich	
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		Svetlana	
		Alexandrovna	
134	vasemenov@ifaran.ru	Semenov	FGBUN Institute of
		Vladimir	Atmospheric Physics A.M.
		Anatolievich	Obukhov RAS
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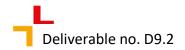
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			Russian Academy of Sciences
127	La Havarav Qua vi	Allevene	-
137	k-alloyarov@ya.ru	Alloyarov	FGAOU VO "Murmansk State
		Konstantin	Technical University"
		Borisovich	
138	akanukov@list.ru	Kanukov	Geophysical Institute - a
		Alexander	branch of the Federal State
		Sergeevich	Budgetary Institution of
			Science of the Federal
			Scientific Center "Vladikavkaz
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			Academy of Sciences"
139	rodionova@nsuada.ru	Rodionova Yulia	Federal State Budgetary
		Valerievna	Educational Institution of
			Higher Education "Kryachkov
			Novosibirsk State University of
			Architecture, Design and Arts"
140	afanaseva_ov@spbstu.ru	Afanasyeva Olga	Peter the Great St. Petersburg
		Valerievna	Polytechnic University
141	poa@icmm.ru	Plekhov Oleg	Perm Federal Research Center
		Anatolievich	of the Ural Branch of the
			Russian Academy of Sciences
142	pochta.avd@gmail.com	Doroshenko	Federal State Budgetary
		Anna Valerievna	Educational Institution of
			Higher Education "National
			Research Moscow State
			University of Civil Engineering"
			(NRU MGSU).
143	fokin.ilya@gmail.com	Fokin Ilya	Center for Petrophysical and
	, -3	Vladimirovich	Geomechanical Research, IPE
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144	gnedovskaya@mail.ru	Gnedovskaya	Federal State Budgetary
	, , , , , , , , , , , , , , , , , , , ,	Elena	Scientific Institution "Scientific
		Vladimirovna	Center of Neurology"
145	evginia@mail.ru	Ageeva Evgeniya	Baikal State University
5		Valerievna	Tankar State Offiver Sity
146	nka@vniisoi.ru	Nikulchev	FGBNU All-Russian Research
140	iika@viiiiSUi.lu	MIKUICHEV	I GDINO AII-KUSSIAII KESEAICH





		Kanatantia	Institute of Cauloons
		Konstantin	Institute of Soybeans
		Anatolievich	5000
147	avsurov@ieeras.ru	Surov Alexander	FSBSI Institute of
		Viktorovich	Electrophysics and Electric
			Power Industry of the Russian
			Academy of Sciences (IEE RAS)
148	dw-08@mail.ru	Shvetsova Daria	Chelyabinsk State University
		Andreevna	
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		Valerievich	Educational Institution of
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150	barannik@iemspb.ru	Barannik Irina	Federal State Budgetary
		Anatolyevna	Scientific Institution "Institute
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151	k.golokhvast@vir.nw.ru	Golokhvast Kirill	FGBNU Federal Research
		Sergeevich	Center All-Russian Institute of
		_	Plant Genetic Resources. N.I.
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152	zarema1177@yandex.ru	Uzdenova	ALIEV Karachay-Cherkess State
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			Scientific Research Institute of
			Occupational Medicine"
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			Russian Federation
155	lolikkolbik@gmail.com	Kolbina Olga	Federal State Budgetary
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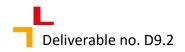
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157	shvedovsa@mgsu.ru	Shvedov Stefan Andreevich	National Research University MOSCOW STATE UNIVERSITY OF CIVIL ENGINEERING
158	svetlana 8725@mail.ru	Karakotova Svetlana Abugalievna	ALIEV Karachay-Cherkess State University
159	laipanova19671903@mail.ru	Laipanova Indira Bashirovna	ALIEV Karachay-Cherkess State University
160	Zemchura@mail.ru	Khachirova Zimfira Kemalovna	ALIEV Karachay-Cherkess State University
161	yurikornev@mail.ru	Kornev Yuri Vitalievich	Institute of Applied Mechanics of the Russian Academy of Sciences (IPRIM RAS)
162	kuchugura@mail.ru	Vasilieva Zhanna Vyacheslavovna	Federal State Autonomus Budgetary Educational Institution of Higher Education "Murmansk State Technical University
163	v.a.blaginin@usue.ru	Blaginin Viktor Andreevich	Ural State University of Economics
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165	Laponows92@mail.ru	Laponov Sergey Vladimirovich	Ufa State Petroleum Technical University
166	J-9101980@yandex.ru	Popova Olga Vladimirovna	Institute of Philosophy RAS
167	zinaidarozhkova@gmail.com	Rozhkova Zinaida Igorevna	Institute of Philosophy RAS
168	nezv@yandex.ru	Nezvitskaya Tatiana Viktorovna	Federal State Budget Institution "State Historical, Architectural and Ethnographic Museum-





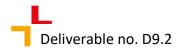
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1,0	idara_naarova@maii.ra	Vladimirovna	Vladikavkaz Scientific Center of
		Vidaminioviid	the Russian Academy of
			Sciences
171	marina@barulina.ru	Barulina Marina	Institute for Problems of
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			U.D. Aliyev"
173	pbykov@imet.ac.ru	Bykov Pavel	Federal State Budgetary
	, ,	Andreevich	Institution of Science Institute
			of Metallurgy and Materials
			Science. A.A. Baikov Russian
			Academy of Sciences
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		Vladimirovna	Educational Institution of
			Higher Education «Privolzhsky
			Research Medical University»
			of the Ministry of Health of the
			Russian Federation
175	xaritonov@mail.ru	Kharitonov	FGBNU ALL-RUSSIAN
		Sergey	RESEARCH INSTITUTE OF
		Sergeevich	PHYTOPATOLOGY
176	puzanov.vyu@yandex.ru	Puzanov Vladimir	Federal State Budgetary
		Yurievich	Educational Institution of
			Higher Education «Privolzhsky
			Research Medical University»
			of the Ministry of Health of the
			Russian Federation
		1	





177	egidarev@yandex.ru	Egidarev Evgeny	Pacific Institute of Geography
1,,	egidarev @ yarraex.ru		
		Gennadievich	FEB RAS
178	coluria@mail.ru	Dutova Svetlana	Federal State Budgetary
		Vyacheslavovna	Educational Institution of
			Higher Education "Khakass
			State University named after
			N. F. Katanov"
179	nborisov@rggu.ru	Borisov Nikolay	Russian State University for
		Alexandrovich	the Humanities
180	olga16.08@mail.ru	Vdovina Olga	FSBEI HE "Penza State
		Alexandrovna	University of Architecture and
			Construction"
181	kosarev_nikolai@mail.ru	Kosarev Nikolay	Siberian Federal University
		Ivanovich	
182	Dmitriy.kochelev92@mail.ru	Dmitry Koshelev	All-Russian Research Institute
			of Irrigated Agriculture
183	telegin@imp.uran.ru	Telegin Andrey	Mikheev Institute of Metal
		Vladimirovich	Physics Ural Branch of RAS
184	mdemin@ncfu.ru	Demin, Maxim	Federal State Budgetary
		Sergeevich	Educational Institution of
			Higher Education "North
			Caucasus Federal University"

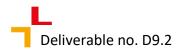




Annex 3: final mailing list

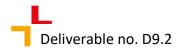
1	FEDERAL CTATE BURGETARY INSTITUTION "TECHNOLOGICAL INSTITUTE FOR				
1	FEDERAL STATE BUDGETARY INSTITUTION "TECHNOLOGICAL INSTITUTE FOR SUPERHARD AND NOVEL CARBON MATERIALS" (FSBI TISNCM)				
2	Federal State Budgetary Institution of Science Engelhardt Institute of Molecular				
2					
2	Biology of the Russian Academy of Sciences				
3	Federal State Budgetary Institution of Science Ioffe Physico-Technical Institute of the				
	Russian Academy of Sciences				
4	Federal State Institution "Federal Research Center" Crystallography and Photonics "of				
	the Russian Academy of Sciences"				
5	Federal State Budgetary Educational Institution of Higher Education "Kuban State				
	University"				
6	Federal State Unitary Enterprise "Institute of Chemical Reagents and High-Purity				
	Chemical Substances of the National Research Center" Kurchatov Institute "				
7	Federal State Autonomous Educational Institution of Higher Education "National				
	University of Science and Technology" MISiS "				
8	Federal State Autonomous Educational Institution of Higher Education "Lomonosov				
	Northern (Arctic) Federal University"				
9	Federal State Autonomous Educational Institution of Higher Education Southern				
	Federal University				
10	Federal State Autonomous Educational Institution of Higher Education "National				
	Research Tomsk State University"				
11	Federal State Autonomous Educational Institution of Higher Education "Moscow				
	Institute of Physics and Technology (National Research University)"				
12	Federal State Budgetary Educational Institution of Higher Education "National				
	Research Moscow State University of Civil Engineering"				
13	Federal State Budgetary Educational Institution of Higher Education "Moscow State				
	Technological University" STANKIN "				
14	Federal State Autonomous Educational Institution of Higher Education "National				
	Research University" Moscow Institute of Electronic Technology "				
15	Federal State Budgetary Institution of Science Institute of Nuclear Physics G.I.Budker				
	Siberian Branch of the Russian Academy of Sciences				
16	Federal State Budgetary Institution of Science Rzhanov Institute of Semiconductor				
	Physics, Siberian Branch of the Russian Academy of Sciences				
17	Federal State Budgetary Scientific Institution "Federal Research Center Institute of				
	Cytology and Genetics of the Siberian Branch of the Russian Academy of Sciences"				
18	Federal State Budgetary Scientific Institution "Orekhovich Research Institute of				
	Biomedical Chemistry "Russian Academy of Medical Sciences				
19	Federal State Budgetary Educational Institution of Higher Education "Voronezh State				
	. Case a case of				





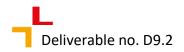
	University"				
20	Federal State Autonomous Educational Institution of Higher Education "Ural Federal				
	University"				
21	Federal State Budgetary Scientific Institution "All-Russian Scientific Research Institute				
	of Agricultural Biotechnology"				
22	Federal State Unitary Enterprise "Gorynina Central Research Institute of Structural				
	Materials" Prometheus" of the National Research Center "Kurchatov Institute"				
23	Federal State Unitary Enterprise "All-Russian Scientific Research Institute of Op				
	and Physical Measurements"				
24	Federal State Budgetary Scientific Institution "Federal Research Center for				
	Fundamental and Translational Medicine"				
25	Federal State Budgetary Educational Institution of Higher Education "Moscow				
	Polytechnic University"				
26	Federal State Budgetary Institution of Science Institute of Chemical Physics Problems				
	of the Russian Academy of Sciences				
27	Joint Stock Company "Research Center for the Study of Surface and Vacuum				
	Properties"				
28	8 Federal State Autonomous Educational Institution "Peoples' Friendship University 19 Peoples' Friendship Un				
	Russia"				
29	Federal State Budgetary Educational Institution of Higher Education "Ryazan State				
	Radio Engineering University"				
30	Open Joint Stock Company "All-Russian twice Orders of the Red Banner of Labor Heat				
	Engineering Research Institute"				
31	Federal State Budgetary Institution of Science Institute of Metallurgy of the Ural				
	Branch of the Russian Academy of Sciences				
32	Federal State Budgetary Institution of Science Dagestan Federal Research Center of				
	the Russian Academy of Sciences				
33	Federal State Budgetary Institution "Russian Scientific Center for Radiology and				
	Surgical Technologies named after Academician A.M. Granov "of the Ministry of				
	Health of the Russian Federation				
34	Federal State Budgetary Educational Institution of Higher Education "Irkutsk National				
	Research Technical University"				
35	All-Russian Electrotechnical Institute - a branch of the Federal State Unitary				
	Enterprise " Zababakhin Russian Federal Nuclear Center - All-Russian Scientific				
	Research Institute of Technical Physics"				
36	Federal State Budgetary Educational Institution of Higher Education "Michurinsk State				
_	Agrarian University"				
37	Federal State Budgetary Scientific Institution "All-Russian Scientific Research Institute				
	of Agricultural Microbiology"				





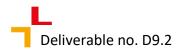
38	Joint Stock Company "Order of the Red Banner of Labor Research Karpov Institute of				
	Physics and Chemistry" State Scientific Center - Scientific Persoarch Institute of Atomic Peactors				
39	State Scientific Center - Scientific Research Institute of Atomic Reactors				
40	State Research and Design Institute of Rare Metal Industry "Giredmet"				
41	Federal State Budgetary Educational Institution of Higher Education "Volga State Technological University"				
42	Federal State Budgetary Educational Institution of Higher Education "Kazan National Research Technological University"				
43	Federal State Budgetary Educational Institution of Higher Education "Tver State Technical University"				
44	Federal State Budgetary Educational Institution of Higher Education "St. Petersburg Mining University"				
45	Federal State Budgetary Educational Institution of Higher Education Khetagurovs North-Ossetian State University				
46	Federal State Budgetary Educational Institution of Higher Education "Yaroslavl State University"				
47	Federal State Autonomous Scientific Institution "Central Research and Development Institute of Robotics and Technical Cybernetics"				
48	Federal State Autonomous Educational Institution of Higher Education "National				
	Research Tomsk Polytechnic University"				
49	Federal State Budgetary Educational Institution of Higher Education "North Caucasian				
	Mining and Metallurgical Institute (State Technological University)"				
50	Federal State Budgetary Educational Institution of Higher Education "National				
	Research University" MPEI "				
51	Federal State Autonomous Educational Institution of Higher Education "National Research Nuclear University" MEPhI "				
52	Federal State Autonomous Educational Institution of Higher Education "Kazan (Volga Region) Federal University"				
53	Federal State Budgetary Scientific Institution "Research and Production Complex" Technological Center "				
54	Federal State Budgetary Educational Institution of Higher Education "Perm National Research Polytechnic University"				
55	Federal State Budgetary Educational Institution of Higher Education "Mendeleevs Russian University of Chemical Technology"				
56	Federal State Budgetary Institution of Science Special Astrophysical Observatory of the Russian Academy of Sciences				
57	Institute for Physics of Microstructures RAS - Branch of the Federal State Budgetary Scientific Institution "Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences"				





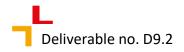
58	Federal State Budgetary Institution of Science Institute of Gene Biology of the Russian				
	Academy of Sciences				
59	Federal State Budgetary Educational Institution of Higher Education "Millionshchikov				
	Grozny State Oil Technical University "				
60	Federal State Budgetary Educational Institution of Higher Education "Berbekovs				
	Kabardino-Balkarian State University "				
61	Federal State Budgetary Educational Institution of Higher Education "Samara State				
	Technical University"				
62	Federal State Budgetary Educational Institution of Higher Education "Ivanovo State				
	University of Chemical Technology"				
63	Federal State Autonomous Educational Institution of Higher Education "Far Eastern				
	Federal University"				
64	Federal State Budgetary Institution "National Research Center" Kurchatov Institute "				
65	Federal State Autonomous Educational Institution of Higher Education "South Ural				
	State University (National Research University)"				
66	Federal State Budgetary Educational Institution of Higher Education "Lomonosov				
	Moscow State University"				
67	Federal State Budgetary Institution of Science Lebedev Physical Institute of the				
	Russian Academy of Sciences				
68	Federal State Unitary Enterprise "Lukin Research Institute for Physical Problems"				
69	Federal State Budgetary Scientific Institution "Federal Research Center Institute of				
	Applied Physics of the Russian Academy of Sciences"				
70	Federal State Budgetary Educational Institution of Higher Education "St. Petersburg				
	State University"				
71	Federal State Institution "Federal Research Center" Fundamental Foundations of				
	Biotechnology "of the Russian Academy of Sciences"				
72	Federal State Budgetary Institution "State Research Institute of Genetics and				
	Selection of Industrial Microorganisms of the National Research Center" Kurchatov				
72	Institute "				
73	Federal State Budgetary Educational Institution of Higher Education "Tyumen Industrial University"				
74	Federal State Budgetary Educational Institution of Higher Education "Perm State				
' -	National Research University"				
75	Federal State Budgetary Institution of Science Institute of Chemical Physics. N.N.				
	Semenov Russian Academy of Sciences				
76	Federal State Autonomous Educational Institution of Higher Education "Belgorod				
	State National Research University"				
77	Federal State Budgetary Institution of Science Institute of Astronomy of the Russian				
	Academy of Sciences				
1					





78	8 Interdepartmental Supercomputer Center of the Russian Academy of Science				
	branch of the Federal State Institution "Federal Scientific Center Scientific Researce				
	Institute for System Research of the Russian Academy of Sciences"				
79 Federal State Budgetary Institution of Science Institute of Physiologi					
	Substances of the Russian Academy of Sciences				
80 Federal State Autonomous Educational Institution of Higher Education "L					
	National Research Nizhny Novgorod State University"				
81	Federal State Budgetary Educational Institution of Higher Education "Tomsk State				
	University of Control Systems and Radioelectronics"				
82	Federal State Budgetary Educational Institution of Higher Education "Irkutsk State				
	University"				
83	Federal State Budgetary Scientific Institution Ufa Federal Research Center of the				
	Russian Academy of Sciences				
84	Federal State Unitary Enterprise "All-Russian Scientific Research Institute of Aviation				
	Materials"				
85	Federal State Budgetary Institution of Science Institute of Bioorganic Chemistry.				
	Academicians M.M. Shemyakin and Yu.A. Ovchinnikov Russian Academy of Sciences				
86	Federal State Budgetary Institution of Science "Udmurt Federal Research Center of				
	the Ural Branch of the Russian Academy of Sciences"				
87	Federal State Autonomous Educational Institution of Higher Education "Korolev				
	Samara National Research University"				
88	Federal State Autonomous Educational Institution of Higher Education "Tyumen State				
	University"				
89	Federal State Budgetary Educational Institution of Higher Education "Kemerovo State				
	University"				
90	Federal State Budgetary Institution of Science "Institute for Nuclear Research of the				
	Russian Academy of Sciences"				
91	Federal State Budgetary Institution of Science Institute of Organometallic Chemistry.				
	G.A. Razuvaev of the Russian Academy of Sciences				
92	Federal State Budgetary Scientific Institution "Federal Research Center" Krasnoyarsk				
	Scientific Center of the Siberian Branch of the Russian Academy of Sciences "				
93	Federal State Budgetary Institution of Science Institute of Automation and				
	Electrometry of the Siberian Branch of the Russian Academy of Sciences				
94	Federal State Budgetary Institution of Science Institute of Applied Astronomy of the				
	Russian Academy of Sciences				
95	Federal State Institution "Federal Scientific Center Scientific Research Institute for				
	System Research of the Russian Academy of Sciences"				
96	Federal State Autonomous Educational Institution of Higher Education "Ulyanov				
	(Lenin) St. Petersburg State Electrotechnical University" LETI "				





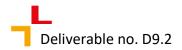
97	Federal State Budgetary Educational Institution of Higher Education "Astrakhan State					
	Medical University" of the Ministry of Health of the Russian Federation					
98	Skolkovo Institute of Science and Technology (Skoltech)					
99	Federal State Budgetary Educational Institution of Higher Education "Voin					
	Yasenetsky Krasnoyarsk State Medical University "of the Ministry of Health of					
	Russian Federation					
100						
	Epidemiology and Microbiology. Pasteur "of the Federal Service for Supervision of					
	Consumer Rights Protection and Human Welfare					
101	Federal State Budgetary Institution of Science Federal Research Center "Prokhorov					
	Institute of General Physics Russian Academy of Sciences "					
102	Federal State Budgetary Educational Institution of Higher Education "Kuzbass State					
	Agricultural Academy"					
103	Federal State Autonomous Educational Institution of Higher Education "Ammosov					
	North-Eastern Federal University"					
104	Joint Stock Company "Research Institute of Molecular Electronics"					
105	5 Federal State Budgetary Institution "Almazov National Medical Research Center"					
	the Ministry of Health of the Russian Federation					
106	Federal State Autonomous Educational Institution of Higher Education "Sevastopol					
	State University"					
107	Budgetary institution of higher education of the Khanty - Mansiysk Autonomous					
	Okrug - Ugra "Surgut State University"					
108	Federal State Budgetary Educational Institution of Higher Education "Morozov					
	Voronezh State Forestry University"					
109	Federal State Budgetary Scientific Institution "Federal Scientific Center of					
	Beekeeping"					
110	Federal State Budgetary Educational Institution of Higher Education Tambov State					
	Technical University					
111	Federal State Budgetary Institution of Science Institute of Economics of the Ural					
	Branch of the Russian Academy of Sciences					
112	Federal State Budgetary Educational Institution of Higher Education "Stolypin Omsk					
	State Agrarian University"					
113	Federal State Autonomous Scientific Institution Mokerov Institute of Microwave					
	Semiconductor Electronics Russian Academy of Sciences					
114	Federal Research Center "Informatics and Management" of the Russian Academy of					
	Sciences					
115	Federal State Budgetary Educational Institution of Higher Education "MIREA - Russian					
	Technological University"					
116	Federal State Institution "Keldysh Federal Research Center Institute of Applied					





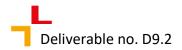
	Mathematics of the Russian Academy of Sciences "					
117	Federal State Budgetary Institution of Science Institute of Synthetic Polymeric					
117	Materials named after N.S. Enikolopov Russian Academy of Sciences					
118	Federal State Budgetary Institution of Science "Federal Research Center" Pushchino					
	Scientific Center for Biological Research of the Russian Academy of Sciences "					
119 Federal State Budgetary Educational Institution of Higher Education "State						
	University of the Humanities"					
120	20 Federal State Budgetary Institution of Science "Order of the Red Banner of L					
	Nikitsky Botanical Garden - National Scientific Center of the Russian Academy of					
	Sciences"					
121	Federal State Budgetary Educational Institution of Higher Education "Moscow State					
	University of Food Production"					
122	Federal State Budgetary Institution of Science North-Eastern Complex Scientific					
	Research Institute named after ON. Shilo of the Far Eastern Branch of the Russian					
	Academy of Sciences					
123	Federal State Budgetary Institution of Science "Federal Research Center" Institute of					
	Catalysis named after G.K. Boreskov of the Siberian Branch of the Russian Academy of					
	Sciences "					
124	Sericulture Research Station - Branch of the Federal State Budgetary Scientific					
	Institution "North Caucasus Federal Scientific Agrarian Center"					
125	Federal State Budgetary Institution of Science "National Scientific Center for Marine					
	Biology named after A.V. Zhirmunsky "of the Far Eastern Branch of the Russian					
	Academy of Sciences					
126	Federal State Budgetary Institution of Science Special Design Bureau of Automation					
	Means for Marine Research of the Far Eastern Branch of the Russian Academy of					
	Sciences					
127	Federal State Budgetary Institution of Science Institute of Petroleum Geology and					
	Geophysics named after A.A. Trofimuk of the Siberian Branch of the Russian Academy					
	of Sciences					
128	Federal State Budgetary Scientific Institution "Crimean Astrophysical Observatory of					
	the Russian Academy of Sciences"					
129	Federal State Budgetary Institution "St. Petersburg Nuclear Physics Institute" B.P.					
	Konstantinov of the National Research Center "Kurchatov Institute"					
130	Federal State Budgetary Institution of Science Institute of Protein of the Russian					
	Academy of Sciences					
131	Federal State Budgetary Institution of Science Institute of Chemistry of High-Purity					
	Substances. G. G. Devyatykh of the Russian Academy of Sciences					
132	Federal State Budgetary Institution of Science Geological Institute of the Siberian					
	Branch of the Russian Academy of Sciences					





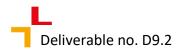
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	Agrarian University named after N.V. Parakhina "				
134	Federal State Budgetary Institution of Science Institute of Cosmophysical Research				
	and Radio Wave Propagation of the Far Eastern Branch of the Russian Academy of				
	Sciences				
135	Federal State Budgetary Institution of Science Federal Research Center "Karelia				
	Scientific Center of the Russian Academy of Sciences"				
136	Federal State Budgetary Educational Institution of Higher Education "Kazan State				
	Academy of Veterinary Medicine named after N.E. Bauman "				
137	Federal State Budgetary Institution "Institute of High Energy Physics named after A.A.				
	Logunov of the National Research Center "Kurchatov Institute"				
138	Federal State Autonomous Educational Institution of Higher Education "Crimean				
	Federal University named after V. I. Vernadsky"				
139	Federal State Budgetary Scientific Institution Federal Scientific Center "All-Russian				
	Scientific Research and Technological Institute of Poultry" of the Russian Academy of				
	Sciences				
140	Federal State Budgetary Scientific Institution "Tomsk National Research Medical				
	Center of the Russian Academy of Sciences"				
141	Federal State Budgetary Institution of Science Institute of Molecular and Cellular				
	Biology, Siberian Branch of the Russian Academy of Sciences				
142	Federal State Budgetary Scientific Institution "All-Russian Research Institute of Ho				
	Breeding"				
143	Federal State Budgetary Institution of Science Institute of Geology of Diamond and				
	Precious Metals of the Siberian Branch of the Russian Academy of Sciences				
144	Federal State Budgetary Scientific Institution Samara Research Institute of Agriculture				
	named after N.M. Tulaykova "				
145	Federal State Budgetary Institution of Higher Education "Izhevsk State Technical				
	University named after M.T. Kalashnikov "				
146	Kemerovo Research Institute of Agriculture - a branch of the Federal State Budgetary				
	Institution of Science of the Siberian Federal Scientific Center of Agrobiotechnology of				
	the Russian Academy of Sciences				
147	Federal State Unitary Enterprise "Selection and Genetic Center" Smena "				
148	Federal Budgetary Institution of Science "State Scientific Center for Applied				
	Microbiology and Biotechnology" of the Federal Service for Supervision of Consumer				
L	Rights Protection and Human Wellbeing of the Russian Federation				
149	Federal State Budgetary Scientific Institution Scientific Research Institute of Therapy				
	and Preventive Medicine				
150	Federal State Autonomous Educational Institution of Higher Education "Immanuel				
	Kant Baltic Federal University"				





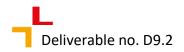
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	Fundamental Medicine of the Siberian Branch of the Russian Academy of Sciences
152	Federal State Budgetary Institution "Institute of Theoretical and Experimental Physics
	named after A.I. Alikhanov National Research Center "Kurchatov Institute"
153	Federal State Budgetary Educational Institution of Higher Education "Moscow
	Automobile and Road Construction State Technical University (MADI)"
154	Federal State Budgetary Educational Institution of Higher Education "First Saint
	Petersburg State Medical University named after Academician I.P. Pavlova "of the
	Ministry of Health of the Russian Federation
155	Federal State Budgetary Institution of Science. Scientific station of the Russian
	Academy of Sciences in Bishkek
156	Federal State Autonomous Educational Institution of Higher Education "Peter the
	Great St. Petersburg Polytechnic University"
157	Stavropol Botanical Garden named after V.V. Skripchinsky - branch of the Federal
	State Budgetary Scientific Institution "North Caucasus Federal Scientific Agrarian
	Center"
158	Institute of Biochemistry and Genetics - a separate structural unit of the Federal State
	Budgetary Scientific Institution of the Ufa Federal Research Center of the Russian
	Academy of Sciences
159	Federal State Budgetary Scientific Institution "Medical Genetic Research Center"
160	State Research Center Federal State Unitary Enterprise "Central Aerohydrodynamic
	Institute named after Professor N.Ye. Zhukovsky "
161	Federal State Budgetary Scientific Institution "All-Russian Scientific Research Institute
	of Potato Farming named after A.G. Lorkha "
162	Federal State Budgetary Scientific Institution "All-Russian Research Institute of Feed
	named after V.R. Williams "
163	Federal State Budgetary Institution of Science Institute of Ecology and Evolution A.N.
	Severtsov Russian Academy of Sciences
164	Federal State Budgetary Educational Institution of Higher Education "Moscow State
	University of Medicine and Dentistry named after A.I. Evdokimov "of the Ministry of
	Health of the Russian Federation
165	Federal State Budgetary Institution of Science of the Order of the Red Banner of Labor
	Institute of Petrochemical Synthesis. A.V. Topchieva of the Russian Academy of
	Sciences
166	Federal State Budgetary Scientific Institution "Baikal Museum of the Irkutsk Scientific
	Center"
167	Federal State Budgetary Institution of Science "Federal Scientific Center for
	Biodiversity of Terrestrial Biota of East Asia" of the Far Eastern Branch of the Russian
	Academy of Sciences





168	Federal State Budgetary Scientific Institution "Federal Scientific Center of Legumes					
	and Groats"					
169	Federal State Budgetary Institution of Science Institute of Industrial Ecology of the					
	Ural Branch of the Russian Academy of Sciences					
170	Federal State Budgetary Institution of Science Tobolsk Complex Scientific Station of					
	the Ural Branch of the Russian Academy of Sciences					
171	Federal State Budgetary Scientific Institution "Institute of Agroengineering and					
	Environmental Problems of Agricultural Production"					
172	Federal State Budgetary Educational Institution of Higher Education "Nizhny					
	Novgorod State Technical University named after R.E. Alekseev"					
173	Federal State Budgetary Institution of Science Federal Research Center "Marine					
	Hydrophysical Institute RAS"					
174	Federal State Budgetary Institution of Science Siberian Institute of Plant Physiology					
	and Biochemistry, Siberian Branch of the Russian Academy of Sciences					
175	Federal State Budgetary Institution of Science Institute of General Genetics. N.I.					
	Vavilov Russian Academy of Sciences					
176	Federal State Budgetary Scientific Institution "Scientific Center for Family Health and					
	Human Reproduction"					
177	Federal State Budgetary Scientific Institution "Research Institute of Epidemiology and					
	Microbiology named after G.P. Somova "					
178	Federal State Budgetary Scientific Institution "Research Institute of Vaccines and					
	Serums named after I.I. Mechnikov "					
179	Federal State Budgetary Scientific Institution "Federal Scientific Center for					
	Agrobiotechnology of the Far East named after A.K. Seagulls "					
180	Federal State Budgetary Institution of Science Institute of Ethnology and					
	Anthropology named after N.N. Miklouho-Maclay of the Russian Academy of Sciences					
181	Federal State Budgetary Institution of Science "Institute of Physiology. I.P. Pavlova of					
	the Russian Academy of Sciences "					
182	Federal State Budgetary Scientific Institution "All-Russian Selection and Technological					
	Institute of Horticulture and Nursery"					
183						
	National Research State University"					
184						
425	Technical University" VOENMEKH " D.F. Ustinov "					
185						
400	State University"					
186	,					
467	Dokuchaev "					
187	Federal State Budgetary Educational Institution of Higher Education "Kazan National					





	Research Technical University named after A.N. Tupolev-KAI "					
188	Federal State Budgetary Educational Institution of Higher Education "Russian					
	Economic University named after G.V. Plekhanov "					
189	Federal State Budgetary Scientific Institution "Institute of Experimental Medicine"					
190	Federal State Budgetary Institution of Science Joint Institute for High Temperatures of					
	the Russian Academy of Sciences					
191	Federal State Budgetary Scientific Institution "Federal Research Center of Virology					
	and Microbiology"					
192	2 Federal State Budgetary Institution of Science Institute of Organoelen					
	Compounds. A.N. Nesmeyanov of the Russian Academy of Sciences					
193	Federal State Budgetary Scientific Institution "Scientific Center of Neurology"					
194	Federal State Budgetary Institution of Science Federal Research Center for Nutrition,					
	Biotechnology and Food Safety					
195	Federal State Budgetary Institution of Science Federal Research Center "Kola Scientific					
	Center of the Russian Academy of Sciences"					
196	Federal State Budgetary Educational Institution of Higher Education "Saratov State					
	Medical University named after V. I. Razumovsky" of the Ministry of Health of t					
	Russian Federation					
197	Federal State Budgetary Educational Institution of Higher Education "Saratov State					
	Technical University named after Yu.A. Gagarin"					
198	Federal State Autonomous Educational Institution of Higher Education "Russian State					
	University of Oil and Gas (National Research University) named after I.M. Gubkin "					
199	Institute of Biochemistry and Physiology of Microorganisms named after G.K. Scriabin					
	- a separate subdivision of the Federal State Budgetary Institution of Science "Federal					
	Research Center" Pushchino Scientific Center for Biological Research RAS "					
200	Scientific and Production Association "Central Scientific Research Institute of					
	Mechanical Engineering Technology"					
201	Federal State Budgetary Educational Institution of Higher Education "Moscow					
	Aviation Institute (National Research University)"					
202	Federal State Autonomous Educational Institution of Higher Education "National					
	Research University Higher School of Economics"					
203	Federal State Autonomous Educational Institution of Higher Education "National					
	Research University ITMO"					
204	Federal State Autonomous Educational Institution of Higher Education First Moscow					
	State Medical University named after I.M. Sechenov of the Ministry of Health of the					
	Russian Federation (Sechenov University)					
205	Federal State Autonomous Educational Institution of Higher Education "Siberian					
	Federal University"					
	Federal State Autonomous Educational Institution of Higher Education "Tyumen State					





University"

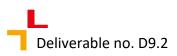




Annex 4 List of training courses/workshops/schools/conferences named by respondents of survey, which cover different issues related to research infrastructure management and in which you would like to participate

N	Name of the event	Organiser	Date & venue	website
1	GEO Week 2020	the Group on Earth Observations (GEO)	2-6 November 2020 online	https://www.earthobservations.org/geoweek2
2	FIDIC International Infrastructure Conference 2021	International Federation of consulting engineers	Geneva, Switzerland 12.09 – 14.09 2021	https://fidic.org/events/fidic-international-infrastructure-conference-2021-geneva-switzerland
3	WORKSHOP"BUILDING LEADERSHIP IN EUROPEAN RESEARCH INFRASTRUCTURES"; Big Science Business Forum (BSBF 2021)	CERN, EMBL, ESA, ESO, ESRF, XFEL, SKA, ILL	28.09 - 01.09.2021 Granada, Spain	https://www.bsbf2020.org/
4	No scheduled events (we will monitor)	KNOWMAK project RISIS-KNOWMAK (Knowledge in the making in the European society)		https://www.knowmak.e
5	How to improve the efficiency of research infrastructures, operation, to optimize the access			comments: Most of these topics are included in different European training courses, e.g. in EMMRI modules. However, some topics may





	of foreign users to Russian facilities, to cooperate effectively with producers of scientific equipment	Eol		be the subject of specific new training courses developed and implemented under CREMLINplus in Russia.
6	Global Open Science Cloud Workshop (ZOOM) within EGI conference	EGI	3-4 Nov.2020	https://indico.egi.eu/event/5255/
7	Certificate - Principles of Biobanking	University of Luxembourg Competence Centre (ULCC).	June-July 2021	https://wwwen.uni.lu/studies/fstm/certificate _principles_of_biobanking/application
8	HOW TO BUILD A BIOBANK	Medical Univesity of Graz	15 16.04.2021	https://www.medunigraz.at/rektorat/vizerekt orin-fuer-forschung-und- internationales/international-biobanking-and- education/how-to-build-a-biobank-basic/
9	6th European Crystallographic School	European Crystallographic Assosiation	4 – 10 July 2021, Budapest	https://www.ecs6.chemcryst.hu/
10	First IS-ENES3 virtual Autumn School on Climate data use for impact assessments	the <u>IS-ENES consortium</u>	Nov 04, 2020 09:00 AM to Dec 10, 2020 09:00 AM	https://is.enes.org/events/trainings-and-education/first-is-enes-autumn-school-on-climate-data-use-for-impact-and-adaptation-assessments#:~:text=This%20is%20the%20first%20in,%2DJune)%20schools%20in%202021.&text=The%20total%20length%20of%20the%20Autumn%20School%20is%20six%20weeks.