

ANNUAL PROGRAMME REPORT

FM14-21

Poland

PL-Applied Research Applied Research

2021

A. EXECUTIVE SUMMARY

The Programme Operator (PO) respected the time schedule established for the Programme for 2021.

According to plan the PO continued signing project contracts in POLNOR 2019 Call, thus all project contracts in this call were signed as of the end of the reporting period. Moreover project contracts for projects initially recommended for funding under the IdeaLab Call for Full Proposals were also concluded. The PO conducted the assessment of over 300 proposals submitted in the the Small Grant Scheme (SGS) Call as well as selection of proposals for funding. As a result 27 SGS proposals were recommended for funding and all project contracts were signed in 2021.

Following the Donors' decision to allocate additional funds to finance IdeaLab projects from the reserve list and a transfer of resources from the PO's management costs to project financing, an Addendum to Agreement between the National Focal Point (NFP) and the PO was signed in November 2021 allowing for funding additional IdeaLab and SGS projects from reserve lists. In December 2021 additional 3 IdeaLab project contracts were signed and 4 SGS funding decisions were issued.

Cumulatively, a total number of 77 project contracts were signed in the Programme as of the end of the reporting period. 68 projects have already started their implementation and obtained first results. Numbers of new products/technologies developed, registered applications for IPR, submitted peer-reviewed scientific publications, female researchers going abroad for research did not reach the target values however are expected to increase in next reporting periods as the implementation of projects advances. On the other hand, the number of researchers supported, of joint applications for further funding as well as indicators showing support for young researchers considerably exceeded the target values. Several indicators reached their final values reflecting the results of expert evaluation and selection of projects funded (numbers of: signed collaborative agreements between research organisations and companies, SMEs supported, CCS projects with support for a pre-commercial phase, projects involving the cooperation of a donor project partner).

The PO carried out monitoring activities as planned, with all financial and science audits/checks and monitoring visits taking place in the reporting period. All periodic reports submitted by projects for 2020 have been evaluated. The main communication activity performed by the PO was the online Project Kick-off Conference for projects implemented under the POLNOR and POLNOR CCS Calls. During the said event Polish and Norwegian representatives of 44 bilateral consortia presented and discussed projects funded under the Programme. The PO also organized online workshop on administrative issues for Project Promoters from the POLNOR, POLNOR CCS and IdeaLab Calls attended by 150 participants.

Based on the positive experience from monitoring visits and the workshop, the PO decided to continue online meetings with selected project beneficiaries and organise a workshop for SGS Project Promoters in the next reporting period. The PO's lessons learned concerned also evaluation process of numerous applications under SGS Call and dealing with the Covid-19 pandemic when planning promotional and information activities.

In the reporting period the implementation of the Programme took place in close cooperation with the Donor Program Partner – the Research Council of Norway (RCN) and under supervision of the NFP. One Programme Committee meeting was organised dedicated to selection of SGS projects.

The overall risk of the Programme has not changed. One risk is not applicable anymore i.e. delays in call launch and project selection and one risk was added i.e. the IdeaLab projects not finished before 30 April 2024. In terms of the identified risks mitigation the cooperation with RCN is of crucial importance

B. PERFORMANCE

1. Programme context

In 2021 the ongoing global Covid-19 pandemic still affected many aspects of operations carried out under the Programme, as in 2020. Most of the meetings and other interpersonal activities were held online and remote work continued. The experience gained from 2020 helped to adapt to the new reality. Planned measures to offset the risks allowed to achieve the Programme's outcomes for 2021: selection of proposals for funding under SGS Call, signing project contracts and monitoring of implemented projects. Moreover the Addendum to Agreement between the National Focal Point (NFP) and the PO was signed and communication plan was accomplished.

As far as legislative changes at national level are concerned, the regulations on information and promotion activities have changed and are specified in the Regulation of the Council of Ministers of the Republic of Poland of May 7, 2021, on the determination of information activities undertaken by entities carrying out tasks financed or co-financed from the state budget or state earmarked funds. This change has affected Polish Project Promoters and project partners. Moreover, the Financial Mechanism Office (FMO) has launched the Media Library multimedia platform where beneficiaries are obliged to update the photos and videos from the project implementation.

Furthermore, the NFP updated the Guidelines on Procurement under the EEA and Norwegian Financial Mechanism 2014-2021 which entered into force on 1st October 2021.

The economic changes that took place in 2021 in Poland also influenced the implementation of the Programme, notably the financial regulations and calculations of the projects. Optional Employee Capital Plans were introduced which resulted in changes in employee monthly remuneration that could not be foreseen and included in the proposals when submitting applications. In addition, the projects were also influenced by a significant increase in inflation in 2021 compared to 2020.

On the European level, NCBR was active in preparations of partnerships under the Horizon Europe Programme. In 2021 NCBR prepared for coordination of selected partnerships, especially co-funded ones. In 2020 NCBR was strengthened by merging with the National Contact Point of Horizon Europe which in 2021 allowed for a better coordination of activities concerning Horizon Europe and allowed for gaining new experience. NCBR joined

new calls for proposals under initiatives like JPI Oceans, JPI FACCE and started bilateral cooperation with Ukraine. In 2021 NCBR also started a new funding program INNOGLOBO for multilateral cooperation which focuses on global R&D ideas where it is possible to start financing projects carried out by international consortia. INNOGLOBO offers Polish entities no restrictions in selecting partners from abroad, except for those countries with which NCBR regularly launches bilateral calls. In the previous year, NCBR was also active in the international arena, not least through having been admitted the European TAFTIE network, thus gaining access to knowledge and experience of similar foreign agencies, as well as the possibility of networking in new initiatives and international projects.

All these efforts are aimed at the development of international cooperation in R&D which, among others, would help the beneficiaries strengthen cooperation between Donor States and Beneficiary States in the search for partners, new initiatives or knowledge transfer.

2. Programme results

Outcome 1: Enhanced performance of Polish applied research

Description and analysis of results

The PO aimed at achieving Outcome 1: "Enhanced performance of Polish applied research" through funding projects selected in competitive calls for proposals: POLNOR 2019 Call, POLNOR CCS Call, the IdeaLab Call for Full Proposals and Small Grant Scheme 2020 Call.

In June 2021 the PO received information from the National Focal Point (NFP) that Donor States decided to allocate additional funds to finance 3 IdeaLab projects from the reserve list. At the same time the PO analysed the overall Programme management costs incurred so far and estimated future expenses under this category. As a result, the PO identified the possibility of a shift of part of its management costs to project financing. The PO proposed such a shift which was approved by the NFP and the FMO. Consequently, the Addendum to the Programme Agreement and Addendum to Agreement between NFP-PO were signed thus allowing for funding reserve projects in the IdeaLab Call for Full Proposals (3) and SGS Call (4).

At the end of the reporting period, cumulatively 77 project contracts were signed in the Programme. 68 projects have already started their implementation, the remaining 9 are SGS projects scheduled to start in 2022. 4 additional SGS project contracts are due to be signed in the next reporting period. In the reporting period the projects contributed to the achievements of outputs listed under "Outcome 1".

During the reporting period project teams submitted 93 peer-reviewed scientific publications, including 13 publications prepared together by Polish and Norwegian researchers. Those numbers are expected to rise in next reporting periods, since most of publications will be prepared in the end of the projects implementation, when projects will have obtained research results. In the reporting period approx. 40% of projects (27 out of 68) have submitted scientific publications. Two projects submitted a significant number of publications in 2021:

- PL-Applied Research-0022 (NOR/POLNORCCS/NEGATIVE-CO2-PP/0009/2019-00) – 10 publications; this is a CCS project which has already finished its feasibility study phase. 9 publications are in English, however the authors are only Polish researchers. 5 articles are submitted in journals with Impact Factor. According to the expert assessing a feasibility study report: *A consistent number of articles on peer review journals was reached. This is a good point for the project considering the pandemic period. The promotion of the project has so far been good.*
- PL-Applied Research-0004 (NOR/POLNOR/BHEsINNO/0018/2019-00) – 21 publications, including 18 already published articles; 6 publications are in English, 5 – in both languages: Polish and English and 10 – in Polish. 4 publications are published in a journal with Impact Factor, titled 'Energies'.

As regards joint scientific publications, the highest number of articles (4) was submitted by the team of the project PL-Applied Research-0007 (NOR/POLNOR/CoBotAGV/0027/2019-00), including 3 publications in open access. The CoBotAGV project team submitted in 2021 8 publications in total including 4 publications prepared jointly by Polish and Norwegian researchers. Joint publications are conference papers, all of them have already been published. The project CoBotAGV is a continuation of a project funded with the previous financial perspective of Norway Grants, therefore they have established long-lasting scientific cooperation between Polish and Norwegian researchers.

In the reporting period 27 new products or technologies were developed by teams of 14 projects. The number is relatively high, giving nearly 50% of the target value, taking into account that most of the projects are in the first year of their implementation. The project that developed the highest number of new products/technologies is PL-Applied Research-0019 (NOR/POLNOR/REFSA/0059/2019-00). They developed the following products/technologies, all in IT sector:

1. Aurea Dashboards - A program module for building generic user interfaces based on JSON definitions,
2. Aurea AI Interface Module - An application programming interface (API) for definable connection of tasks performed by artificial intelligence to business process models,
3. Aurea Search Module - User interface for building PICO model queries considering prompts from external AI modules,
4. REFSA AI modules - modules written in Python / Java implementing the pipeline of text files processing, starting from obtaining them from bibliographic databases, through annotation based on given ontologies, and ending with their classification based on a given query.

Only 4 applications for Intellectual Property Protection have been submitted, however taking into account the high number of new product/technologies developed, this number is expected to increase in next reporting periods.

The value of the indicator 'number of signed collaborative agreements between research organisations and companies involved in the programme' will not be reached in

the programme (target value – 45, achieved value – 40). According to the rules of POLNOR 2019 Call, all funded projects (38) are implemented by consortia with the participation of enterprises. In POLNOR CCS 2019 and IdeaLab Calls, the participation of enterprises in the project consortium was possible, but not obligatory. As a result, based on the opinions of external experts and the decisions of the Programme Committee, the following projects were selected for funding:

- 6 projects from POLNOR CCS Call, 2 of which with enterprises
- 3 projects (and 3 on the reserve list) from the IdeaLab Call for Full Proposals, of which there are no enterprises.

Similarly, the value of the indicator ‘number of SMEs supported’ (Output 1.1: Support to technology transfer for applied research to R&D based SMEs provided) is also underachieved (37 out of planned 50), and will not be reached in the programme.

In the POLNOR 2019 and POLNOR CCS 2019 Calls, 37 different SMEs received funding, one of them in 2 projects. In addition, 11 different large entrepreneurs received funding in both calls. There are no SMEs in IdeaLab Call for Full Proposals projects. In the SGS Call, enterprises could submit applications, but they were a minority among all submitted applications (less than 6%). As a result, no project implemented by the enterprise is on the list of recommended projects and the reserve list.

Indicators pertaining to output 1.2 (“Support to researchers conducting applied research provided”) were achieved with a considerable margin. According to the latest information from Project Promoters (as of the end 2021), the following numbers were reported (not counting project from the CCS Call, for which the indicator was calculated separately).

For indicator “Number of donor states’ researchers supported”, it was reported that 171 researchers from donor states received support within the projects so far, while the target value was set at 105. This means the indicator was achieved in 162,9%. Considering that many project have not yet reached the mid-point in their realisation, this value is likely to rise. An IdeaLab project “SmartFood” (PL-Applied Research-0076 NOR/IdeaLab/SmartFood/0005/2020-00) was identified with exceptionally high number of donor state researchers supported. It was reported that 13 persons from the donor states received support within this project so far.

For indicator “Number of Polish researchers supported”, it was reported that 658 researchers from Poland were supported so far, while the target value was 420, which leads to a 156,6% success rate. This indicator too is likely to rise, as all projects are scheduled to continue for at least 1,5 year from now. A POLNOR call “EnergizerS” (PL-Applied Research-0003 NOR/POLNOR/EnerGizerS/0036/2019-00) reported an exceptionally high number of 36 Polish researchers supported so far.

Output 1.3 (“Support to women researchers provided”) was greatly bolstered by the fact that 27 Small Grant Scheme project contracts, aimed at enhancing the performance of female scientists in technical areas of science, were signed in the reporting period.

For indicator “Number of female researchers going abroad for research”, it was reported that 8 researchers actually went abroad in the projects. The target value here was 53, meaning that the success rate is only 15,1%. This can be explained by two factors. Firstly, we are experiencing the impact of the COVID-19 pandemic and related restrictions which made it impossible to travel and conduct research abroad. Secondly, Small Grant Scheme projects are in their beginning phase, so this indicator is likely to increase in the future, as projects develop.

The overall indicator “Number of female researchers supported in applied research projects” was reported at 337. Target value was 263, which means that this indicator was highly overachieved, with success rate of 128%. Exceptionally high value was reported in project “BioCoke4FAI” (PL-Applied Research-0024 NOR/POLNOR/BioCoke4FAI/0070/2019-00) which reported 19 female researchers supported so far.

Output 1.4 (“Support to young researchers provided”) is another case where targets were not only met, but considerably exceeded. There are 30 projects where Principal Investigators qualify as young researchers, which equals to a success rate of 500%, considering that target value was 6.

For indicator “Number of mentor-mentee relationships established for young researchers” it was reported that 134 such relationships were established in the projects so far. The target values were established at 53, which means that a 252,9 % success rate was achieved. An exceptional example was reported by the project PhotoRed (PL-Applied Research-0016, NOR/POLNORCCS/PhotoRed/0007/2019), where there are 12 cases of mentor-mentee relations. The Project Promoter explained that there are 12 young scientists who are working on their MSc or engineering theses in frame of the project, who are mentored and supervised by more experienced researchers, also involved in the project. It is possible that the very high overall result reported for the indicator is explained by this type of relations existing in other projects as well.

Output 1.5 (“Support to carbon capture and storage research (CCS)”) is reflected by indicators referring to number of researchers supported in the projects. At the end of the reporting period 36 researchers from the donor states were reported to have received support in the POLNOR CCS projects. This means, that the target value of 15 was overachieved, with a success rate of 240%.

Indicator “Number of Polish researchers supported for CCS Projects” was also exceeded, with 103 such researcher reported, while the target value was 55. The success rate in this case is 187,3%. In both cases the highest values were reported by the project nCO2PP (PL-Applied Research-0022, NOR/POLNORCCS/NEGATIVE-CO2-PP/0009/2019-00), which is explained by the fact that this is the biggest project of all, with consortium consisting of eight partner institutions.

Pre-defined project(s)

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Bilateral Outcome: Enhanced collaboration between beneficiary and donor state entities involved in the programme

Analysis of bilateral relations and achievements

Until the end of the reporting period, cumulatively 50 projects involving the cooperation of a donor project partner (Norway) signed grants agreements and consortium agreements, including 38 projects in POLNOR 2019 Call and 6 projects in POLNOR CCS Call and 6 projects in the IdeaLab Call for Full Proposals - Bilateral Output 1: "Cooperation between beneficiary and donor state entities supported". The target value of the indicator (53) will not be achieved: using the entire allocation and the allocated reserve, based on the opinion of external experts and the decision of the Programme Committee, 50 projects with the participation of partners from donor countries were selected for funding.

Among of those 50 projects, 8 consortia have already submitted the applications for further funding together with Norwegian partner(s). The total number of joint applications submitted in the reporting period is 11. Therefore the value of the indicator 'Number of joint applications for further funding' for 'Bilateral Outcome: Enhanced collaboration between beneficiary and donor state entities involved in the programme' is overachieved. It seems that projects teams are more active in applying for further funding than the PO expected. The value of the indicator is expected to rise, since most of Horizon Europa calls will be launched in 2022 and 2023. An interesting case is PL-Applied Research-0021 NOR/POLNOR/ALTERCAR/0056/2019-00 project which has already submitted 3 applications for further funding, including one already funded. All applications were submitted to national calls launched by the National Science Centre.

During the monitoring meetings representatives of PPs expressed positive opinions on cooperation with Norwegian partners. The COVID-19 pandemic does not allow them to travel freely, however they use electronic means of communication for e.g. staff meetings. The Polish staff of the project PL-Applied Research-0044 NOR/IdeaLab/CoMobility/0001/2020-00 is learning work culture from Norwegian partners (e.g. taking care about the needs of the team, taking breaks during the work-time, culture of cooperation in the team).

As regards the cooperation between the PO and the DPP (RCN), representatives of both entities remain in touch on a daily basis, e.g. during working and formal on-line meetings.

The representatives of the DPP attended events organised in the reporting period in the programme, e.g. Project Kick-off Conference. The Project Kick-off Conference was attended by representatives of PPs and project partners (also project partners from Norway).

The DPP organised for the PO a webinar 'Artificial Intelligence in research funding at the Research Council of Norway' on 29 April 2021, in order to share with the PO their experience in using AI in project proposal assessment.

The representatives of the PO participated in the PO's workshop organised by the DPP on 7-9 December 2021.

In the reporting period one Programme Committee meeting took place on 13-14 April 2021, and was dedicated to selection of projects in SGS Call. The PC members received also written information on the programme implementation on 4 November 2021.

3. Implementation

Cooperation with International Partner Organisations (IPOs)

In the reporting period the PO did not cooperate with International Partner Organisations (IPOs).

C. LEARNING

1. Monitorings carried out

Based on the monitoring plan, 4 POLNOR projects were indicated for financial control and 1 project for the financial and scientific control. All controls indicated took place in 2021. As of 31 December 2021, in case of 2 financial controls no irregularities were reported and in case of the remaining controls the preparation of findings was in progress.

Moreover, the online monitoring meetings were held regarding selected projects from POLNOR, POLNOR CCS, and IdeaLab Call for Full Proposals. The year 2021 saw 5 online monitoring visits which were included in the monitoring plan. In addition, 2 more online monitoring meetings with IdeaLab projects were organized. That is because IdeaLab projects are characterized by an inherent higher risk than projects from other calls and need closer monitoring. Conclusions of all online monitoring meetings were noted in writing and feedback communicated to Project Promoters. The meetings were very fruitful and productive, and benefited both sides.

During the reporting period all periodic reports for 2020 were assessed (financial reports and 1 technical report as only single project was obliged to submit a technical report for 2020). One CCS project with Phase I – Technical Feasibility Study finished successfully this phase and moved to Phase II – Research & Development (R&D). The scientific report after Phase I was evaluated by an external expert and the financial report was assessed internally by the PO financial officer.

A monitoring plan for the next reporting period is Annex 5 to this Programme report.

2. Evaluations carried out

In the reporting period the PO did not carry out any evaluation.

3. Lessons learned from monitoring, evaluation and implementation

The SGS Call attracted huge interest among the scientific community with over 300 submitted applications for projects led by female Principal Investigators, of whom more than 50% were young Principal Investigators. This shows the need for schemes aimed at strengthening the competences of female scientists, in particular young female researchers, in future

programming. It should be also stressed that all proposals were assessed according to the same scientific criteria, pursuant to the Call documentation. Proposals which received recommendation for funding and include a young researcher as the Principal Investigator received high scores in the international assessment process indicating a great scientific potential among young female researchers.

As a result of a significant number of SGS submitted proposals evaluation process involved the participation of 253 external experts who prepared 1002 individual reviews and 334 consensus reports. In order to make evaluation easier and more efficient in the future, it may be considered to include simpler rules of peer-review under such schemes (e.g. 2 reviews instead of 3). Moreover, a limit for a total number of applications submitted may be imposed. Once this limit is reached, submission of further proposals would be no longer possible under a call. On 15 June 2021, the PO organised workshops for Project Promoters from POLNOR 2019 Call, POLNOR CCS 2019 Call and IdeaLab Call for Full Proposals with over 100 participants. During the workshops, representatives of the PO presented several topics related to the implementation of projects and answered a large number of questions concerning: introducing amendments, reporting, financial and promotional issues as well as public procurement. Based on this experience the PO is planning to organise the similar workshop for SGS Project Promoters in Q1 2022.

In 2021 the PO organised online monitoring meetings with 7 projects implemented under the Programme. Although these meetings were less formal than financial and/or scientific controls, they provided updated information about the progress of projects, bilateral cooperation and possible deviation from the work plan. The PO could thus gain more insight into the impact of Covid-19 on projects, achieving indicators, changes in and promotion of projects monitored and, last but not least, opinions given by the representatives of project consortia. After the meeting each Project Promoter received feedback. With this positive experience and knowledge obtained in mind, the PO will continue to organise monitoring visits with selected projects in 2022. The wide dissemination of rules of project implementation under the Programme as well as monitoring activities by the PO should have a positive effect on achieving project goals and results.

The Programme Operator followed the time schedule established for the Programme. There was a deviation from the milestones plan as regards signing of contracts. In the POLNOR Call (“Milestone 5: Call 3 POLNOR – contracts signed”) four POLNOR project contracts were signed in 2021 due to difficulties in communication caused by the COVID-19 pandemic, which made circulation of documents and obtaining signatures more difficult and time-consuming than usual. Moreover, one of these projects asked for numerous changes which required thorough analysis by the PO. Despite this delay the planned project completion dates did not fall beyond 30 April 2024 and projects’ duration of 36 months with possible extension was ensured.

Achievement of “Milestone 7: Call 5 IdeaLab workshop – contractsigned” encountered similar challenges to those mentioned in case of the POLNOR call. As a result, three project contracts for projects initially recommended for funding were signed in March-April 2021. Again, planned project completion dates did not fall beyond 30 April 2024 and their duration of 36 months with possible extension was ensured.

Following the Donors' decision dated June 2021 to allocate additional funds to finance three IdeaLab projects from the reserve list and an Addendum to Agreement between NFP-PO dated November 2021, three additional IdeaLab project contracts were signed in December 2021. Planned project completion dates did not fall beyond 30 April 2024 but projects' duration will be shorter than 36 months. Although project consortia confirmed their ability to achieve initially planned project results, the PO identified the risk of IdeaLab projects not finishing before 30 April 2024 and a planned response to this risk is foreseen according to *Annex 4: Risk management*. Moreover, the PO informed the NFP about this risk and asked the NFP to continue the discussion with the Donors regarding the extension of the eligibility period of expenditures under the Program in particular for the additional IdeaLab projects.

Regarding the "Milestone 8: SGS 2 for female researchers – contracts signed" at the end of September 2021, 25 out of 27 project contracts with SGS Project Promoters were signed and 2 project contracts were signed in October-November 2021. The planned project completion dates did not fall beyond 30 April 2024 and the projects' duration of 24 months with possible extension was ensured. In December 2021 the PO issued funding decisions for four additional SGS projects and signing of project contracts will follow in the next reporting period.

In 2021 the PO continued to increase the usage of electronic qualified signature and electronic version of documents. Electronic qualified signature was used to sign the PO's internal documents as well as correspondence with external parties. To a large extent, SGS funding decisions and project contracts as well as annexes to project contracts from other calls were signed with electronic qualified signatures and sent in paperless version via e-PUAP platform.

As in previous reporting period, the Covid-19 had still an impact on the mode of the Programme Committee meeting which was also held on-line in April 2021. The next Programme Committee meeting scheduled initially for November 2021 was postponed to June 2022. It would then be more likely to conduct the Programme Committee meeting and meetings with a number of projects in person. According to the request of the Programme Committee, in November 2021 the PO prepared updated written information on the progress of the Programme implementation.

The PO will take into account the Covid-19 pandemic when planning promotional and information activities in the next reporting period.

D. ANNEXES

- 1. Updated achievements in the results framework**
- 2. Communication summary**
- 3. Overview of contracted projects**
- 4. Risk management**
- 5. Monitoring plan**

6. Evaluation report

7. Agreement conditions

Annex 1: Updated achievements in the results framework

Objective: Enhanced research-based knowledge development								
Outcome 1: Enhanced performance of Polish applied research								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of new products/technologies developed	Cumulative number	0	0 (APR 2020)	-	-	27	53	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	27	-	-
Number of registered applications for Intellectual Property Protection	Cumulative number	0	0 (APR 2020)	-	-	4	53	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	4	-	-
Number of peer-reviewed scientific publications submitted	Cumulative number	0	0 (APR 2020)	-	-	93	315	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	3	-	-
<i>Norway Grants</i>	-	-	-	-	-	90	-	-
<i>Type of scientific publication</i>								
<i>Gold open access</i>	-	-	-	-	-	39	-	-
<i>Pending open access</i>	-	-	-	-	-	5	-	-
<i>Other</i>	-	-	-	-	-	19	-	-
<i>Not specified</i>	-	-	-	-	-	30	-	-
Number of joint, peer-reviewed scientific publications in applied research submitted	Cumulative number	0	0 (APR 2020)	-	-	13	105	-
<i>Financial Mechanism</i>								

<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	13	-	-
<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	13	-	-
<i>Iceland</i>	-	-	-	-	-	0	-	-
<i>Liechtenstein</i>	-	-	-	-	-	0	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-
<i>Type of scientific publication</i>								
<i>Gold open access</i>	-	-	-	-	-	2	-	-
<i>Pending open access</i>	-	-	-	-	-	4	-	-
<i>Other</i>	-	-	-	-	-	3	-	-
<i>Not specified</i>	-	-	-	-	-	4	-	-
Number of signed collaborative agreements between research organisations and companies involved in the programme	Cumulative number	0	40 (IFR 2021)	-	-	40	45	-
Output 1.1: Support to technology transfer for applied research to R&D based SMEs provided								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of SMEs supported	Cumulative number	0	37 (IFR 2021)	-	-	37	50	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	37	-	-
Output 1.2: Support to researchers conducting applied research provided								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		

Number of donor states' researchers supported	Cumulative number	0	150 (IFR 2021)	-	-	171	105	For POLNOR, IdeaLab, SGS Calls
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	13	-	-
<i>Norway Grants</i>	-	-	-	-	-	158	-	-
<i>Gender</i>								
<i>Female</i>	-	-	-	-	-	76	-	-
<i>Male</i>	-	-	-	-	-	95	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-
Number of Polish researchers supported	Cumulative number	0	449 (IFR 2021)	-	-	658	420	For POLNOR, IdeaLab, SGS Calls
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	48	-	-
<i>Norway Grants</i>	-	-	-	-	-	610	-	-
<i>Gender</i>								
<i>Female</i>	-	-	-	-	-	296	-	-
<i>Male</i>	-	-	-	-	-	362	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-
Output 1.3: Support to women researchers provided								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of female researchers going abroad for research	Cumulative number	0	0 (APR 2020)	-	-	8	53	-
Number of female researchers supported in applied research projects	Cumulative number	0	0 (APR 2020)	-	-	337	263	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	18	-	-
<i>Norway Grants</i>	-	-	-	-	-	319	-	-
Output 1.4: Support to young researchers provided								

Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of grant projects lead by young researchers	Cumulative number	0	27 (IFR 2021)	-	-	30	6	-
Number of mentor-mentee relationships established for young researchers	Cumulative number	0	0 (APR 2020)	-	-	134	53	-
Output 1.5: Support to carbon capture and storage research (CCS)								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of donor states' researchers supported for CCS Projects	Cumulative number	0	21 (IFR 2021)	-	-	36	15	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	36	-	-
<i>Gender</i>								
<i>Female</i>	-	-	-	-	-	6	-	-
<i>Male</i>	-	-	-	-	-	30	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-
Number of Polish researchers supported for CCS Projects	Cumulative number	0	83 (IFR 2021)	-	-	103	55	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	103	-	-
<i>Gender</i>								
<i>Female</i>	-	-	-	-	-	26	-	-
<i>Male</i>	-	-	-	-	-	77	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-

Number of CCS projects with support for a pre-commercial phase	Cumulative number	0	1 (APR 2020)	-	-	1	2	-
Bilateral Outcome: Enhanced collaboration between beneficiary and donor state entities involved in the programme								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Level of trust between cooperating entities in Poland and donors states	Scale 1-7	6.80, Servey level	-	-	-	-	4.5, Target is ≥4.5, and an increase on the baseline value	-
<i>Financial Mechanism</i>								
EEA Grants	-	-	-	-	-	-	-	-
Norway Grants	-	-	-	-	-	-	-	-
<i>Beneficiary State</i>								
Bulgaria	-	-	-	-	-	-	-	-
Croatia	-	-	-	-	-	-	-	-
Cyprus	-	-	-	-	-	-	-	-
Czech Republic	-	-	-	-	-	-	-	-
Estonia	-	-	-	-	-	-	-	-
Greece	-	-	-	-	-	-	-	-
Hungary	-	-	-	-	-	-	-	-
Latvia	-	-	-	-	-	-	-	-
Lithuania	-	-	-	-	-	-	-	-
Malta	-	-	-	-	-	-	-	-
Poland	-	-	-	-	-	-	-	-
Portugal	-	-	-	-	-	-	-	-
Romania	-	-	-	-	-	-	-	-

<i>Slovakia</i>	-	-	-	-	-	-	-	-
<i>Slovenia</i>	-	-	-	-	-	-	-	-
<i>Not specified</i>	-	-	-	-	-	-	-	-
<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	-	-	-
<i>Iceland</i>	-	-	-	-	-	-	-	-
<i>Liechtenstein</i>	-	-	-	-	-	-	-	-
<i>Not specified</i>	-	-	-	-	-	-	-	-
Level of satisfaction with the partnerships	Scale 1-7	6.63, Servey level	-	-	-	-	4.5, Target is ≥4.5, and an increase on the baseline value	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	-	-	-
<i>Norway Grants</i>	-	-	-	-	-	-	-	-
<i>Beneficiary State</i>								
<i>Bulgaria</i>	-	-	-	-	-	-	-	-
<i>Croatia</i>	-	-	-	-	-	-	-	-
<i>Cyprus</i>	-	-	-	-	-	-	-	-
<i>Czech Republic</i>	-	-	-	-	-	-	-	-
<i>Estonia</i>	-	-	-	-	-	-	-	-
<i>Greece</i>	-	-	-	-	-	-	-	-
<i>Hungary</i>	-	-	-	-	-	-	-	-
<i>Latvia</i>	-	-	-	-	-	-	-	-
<i>Lithuania</i>	-	-	-	-	-	-	-	-
<i>Malta</i>	-	-	-	-	-	-	-	-
<i>Poland</i>	-	-	-	-	-	-	-	-
<i>Portugal</i>	-	-	-	-	-	-	-	-

<i>Romania</i>	-	-	-	-	-	-	-	-
<i>Slovakia</i>	-	-	-	-	-	-	-	-
<i>Slovenia</i>	-	-	-	-	-	-	-	-
<i>Not specified</i>	-	-	-	-	-	-	-	-
<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	-	-	-
<i>Iceland</i>	-	-	-	-	-	-	-	-
<i>Liechtenstein</i>	-	-	-	-	-	-	-	-
<i>Not specified</i>	-	-	-	-	-	-	-	-
Share of cooperating organisations who apply the knowledge acquired from bilateral partnership	Percentage	N/A	-	-	-	-	50, Target is minimum 50 %	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	-	-	-
<i>Norway Grants</i>	-	-	-	-	-	-	-	-
<i>Beneficiary State</i>								
<i>Bulgaria</i>	-	-	-	-	-	-	-	-
<i>Croatia</i>	-	-	-	-	-	-	-	-
<i>Cyprus</i>	-	-	-	-	-	-	-	-
<i>Czech Republic</i>	-	-	-	-	-	-	-	-
<i>Estonia</i>	-	-	-	-	-	-	-	-
<i>Greece</i>	-	-	-	-	-	-	-	-
<i>Hungary</i>	-	-	-	-	-	-	-	-
<i>Latvia</i>	-	-	-	-	-	-	-	-
<i>Lithuania</i>	-	-	-	-	-	-	-	-
<i>Malta</i>	-	-	-	-	-	-	-	-
<i>Poland</i>	-	-	-	-	-	-	-	-
<i>Portugal</i>	-	-	-	-	-	-	-	-
<i>Romania</i>	-	-	-	-	-	-	-	-
<i>Slovakia</i>	-	-	-	-	-	-	-	-
<i>Slovenia</i>	-	-	-	-	-	-	-	-

<i>Not specified</i>	-	-	-	-	-	-	-	-
<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	-	-	-
<i>Iceland</i>	-	-	-	-	-	-	-	-
<i>Liechtenstein</i>	-	-	-	-	-	-	-	-
<i>Not specified</i>	-	-	-	-	-	-	-	-
Number of joint applications for further funding	Cumulative number	0	0 (APR 2020)	-	-	11	6	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	0	-	-
<i>Norway Grants</i>	-	-	-	-	-	11	-	-
<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	11	-	-
<i>Iceland</i>	-	-	-	-	-	0	-	-
<i>Liechtenstein</i>	-	-	-	-	-	0	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-
<i>Type of scientific publication</i>								
<i>Gold open access</i>	-	-	-	-	-	0	-	-
<i>Pending open access</i>	-	-	-	-	-	0	-	-
<i>Other</i>	-	-	-	-	-	0	-	-
<i>Not specified</i>	-	-	-	-	-	11	-	-
Bilateral Output 1: Cooperation between beneficiary and donor state entities supported								
Indicator	Unit of measurement	Baseline	Achievements until end of previous reporting period	Achievements until end of December 2021			Target	Comment
				Numerator	Denominator	Value		
Number of projects involving the cooperation of a donor project partner	Cumulative number	0	47 (IFR 2021)	-	-	50	53	-
<i>Financial Mechanism</i>								
<i>EEA Grants</i>	-	-	-	-	-	4	-	-
<i>Norway Grants</i>	-	-	-	-	-	46	-	-

<i>Donor State</i>								
<i>Norway</i>	-	-	-	-	-	50	-	-
<i>Iceland</i>	-	-	-	-	-	0	-	-
<i>Liechtenstein</i>	-	-	-	-	-	0	-	-
<i>Not specified</i>	-	-	-	-	-	0	-	-

Annex 2: Communication summary

1. Best practice examples

Project Acronym: CoMobility

Project title: Co-designing Inclusive Mobility

Project contract no: NOR/IdeaLab/CoMobility/0001/2020-00

Project Promoter: University of Warsaw

Project Partners: SGH Warsaw School of Economics, Warsaw University of Technology, Norwegian Institute for Air Research, On-site Foundation, The Fridtjof Nansen Foundation at Polhøgda, City of Lublin

Project website: <https://comobility.edu.pl/en/>

What they do:

CoMobility is a transdisciplinary international research project in which they analyse attitudes and behaviours related to mobility, with a particular focus on alternatives to the use of private cars. In the co-creation process, they plan to identify barriers and opportunities for different mobility choices. Also, they will co-design interventions and solutions that will facilitate a permanent habitual change regarding the choice of the means of transportation. The solutions co-created together with municipalities, local communities, businesses, and other relevant stakeholders will be assessed with respect to their impact on the quality of air and traffic in Warsaw. Their research will result in the package of tools and methods, including the documentation of the co-creation process of new transport solutions and the integrated machine learning, transport and environmental model. They will share their findings and research results with local governments and other cities in Poland and Europe in a series of workshops. The results will be publicly available.

- Activities (events, workshops, information): <https://comobility.edu.pl/en/aktualnosci/>
- Publications (information, videos, podcasts): <https://comobility.edu.pl/en/publikacje/>

2. Best bilateral cooperation examples

Project Acronym: ACTIVATE

Project title: Ammonia as carbon free fuel for internal combustion engine driven agricultural vehicle

Project contract no: NOR/POLNOR/ACTIVATE/0046/2019-00

Project Promoter: Silesian University of Technology

Project Partners: Norwegian University of Science and Technology, University of Agriculture in Krakow, LOGE Polska Sp. z o.o.

Project website: <https://ammoniaengine.org/>

The main objective of the project is to develop ACTIVATEngine technology which aims to solve the challenges of fuelling an engine with ammonia and burn it efficiently with the evaluation and demonstration in an agricultural demonstration vehicle.

1. Information about conferences/events/seminars:

a) ACTIVATE seminar, 12.01.2021 (online)

i. 5 lectures by foreign experts

ii. participants: 88 (Poland 44, Norway 13, Italy 11, Belgium 2, Greece 2, Indonesia 2, Iran 2, UK 2, USA 2, Australia 1, Canada 1, Egypt 1, France 1, Netherlands 1, Lithuania 1, Germany 1, Sweden 1)

iii. [LINK](#)-www , [LINK](#)-LinkedIn

b) participation in the Global CONVERGE user conference, [LINK](#)

c) participation in the 9th International Congress on Combustion Engines, [LINK](#)

2. Social media:

a) [LinkedIn](#)

b) [ResearchGate](#)

3. Other information about the promotion:

a) project website -<https://ammoniaengine.org/>, PL&EN version, visual materials in WP descriptions and News

b) promotional poster, rollup

c) Ammonia Energy Association - Press Release [LINK](#)

d) Presentation at CLIMATE-CON 2021 - Silesian Climate Convention, 20-23.11.2021

4. Publications:

a) Authors with affiliation: Kacper Konrad Kuta Silesian University of Technology, Ebrahim Nadimi Silesian University of Technology, Grzegorz Przybyła Silesian University of Technology, Zbigniew Żmudka Silesian University of Technology, Wojciech Adamczyk Silesian University of Technology

Title: Ammonia CI engine aftertreatment systems design and flow simulation

Journal: Combustion Engines

Editorial office: Institute of Combustion Engines and Powertrains, Poznan University of Technology

DOI/ISSN: <https://doi.org/10.19206/CE-143158>

Online publication date: 11.22.11.2021

Poster presentation: 27-28.09.2021

Registration type: full manuscript based, peer reviewed

WP: WP2

b) Authors with affiliation: M.T. Lewandowski (NTNU), M. Pasternak (LOGE), D.R. Emberson (NTNU), C. Netzer (NTNU), T. Løvås (NTNU)

Title: Simulations of Direct Injection of Liquid Ammonia Spray in CI Engine

Conference name: Global CONVERGE user conference, 27-30.09.2021 (online)

DOI/ISSN: -----

Publication date: 29.09.2021

Oral/poster presentation: Oral presentation

Registration type: presentation-based/abstract-based

WP: WP3

3. The programme in a nutshell

<p>What is the added value of this programme?</p>	<p>The programme enhances the performance of Polish applied research in Poland through improved research cooperation between Poland and Norway, based on equal partnerships between Norwegian and Polish research institutions and enterprises. The programme has established efficient links between research institutions and business/industry sector thus possible further projects involving these entities, beyond the programme. In particular the programme supports capacity building of young researchers and the careers of female researchers in the area of applied technical sciences.</p>
<p>Include up to two quotes about this programme. Please include the name, last name and title of the person.</p>	<p>Quote 1</p> <p>The COVID-19 pandemic is associated of many unexpected challenges for all of us. Challenges that show how great strength in overcoming difficulties lies in cooperation among countries, representatives of many institutions, as well as environments related to science and entrepreneurship.</p> <p>This cooperation in our Programme "Applied research" founded under EEA and Norway Grants helped us achieve goals that had been set at the beginning. Calls for proposals were successful, contracts with beneficiaries were signed and the latter, of which we are really proud, implement their projects with great enthusiasm.</p>

	Author	Name	Title
			Wojciech Kamieniecki
Quote 2			
International cooperation is one of NCBR's most important statutory tasks. We are proud of what Polish researchers and entrepreneurs achieve with their Norwegian partners in the projects funded under the EEA and Norway Grants.			
	Author	Name	Title
		Agnieszka Ratajczak	Director of the Office of International Cooperation, National Centre for Research and Development

4. Visibility of the Grants and the Donors

The main communication activity done by the PO was the online Project Kick-off Conference for projects implemented under the POLNOR, POLNOR CCS Calls on 14 June 2021. During the conference, 44 projects were presented, divided into 7 parallel sessions (Welfare, health and care; Digital and industry; Energy, transport and climate; Food and natural resources 1; Food and natural resources 2; Unmanned vehicles; CCS). The conference was attended by over 100 participants.

The PO also organized of online workshop for Project Promoters from the POLNOR, POLNOR CCS and IdeaLab Calls on 15 June 2021. During the workshop the PO provided information on financial aspects, reporting, possible changes and promotion in projects. The workshop was attended by 150 participants. Video reports and presentations of the online workshop for Project Promoters are available on the Programme webpage.

The most important information for scientific community and general public was posted on the NCBR's Facebook (5 posts), Twitter (2 posts) and LinkedIn profile (3 posts).

In April 2021 the PO published the promotional article about the IdeaLab workshop in the Forbes biweekly magazine in 37,700 copies. The article was also published online at rp.pl and bussinessinsider.com.pl and was promoted on the Forbes, rp.pl , bussinessinsider.com.pl and Crazy Nauka Facebook and Twitter profiles.

5. Media coverage

Example 1

Coverage	Type	National
Description	The promotional article about the IdeaLab workshop. The IdeaLab workshop took place on 2-6 March 2020 in Otwock. Participants from Poland and Norway cooperated with each other in order to create innovative research ideas for products and services for the cities of the future. They were assisted by mentors and director (international	

	experts) and the facilitators. After the IdeaLab workshop the PO launched the IdeaLab Call for Full Proposals. As a result of the call 3 research projects were recommended for funding and 3 more projects were on the reserve list. According to decision of the Donor States to grant additional funds 3 projects from the reserve list were recommended for funding.
Relevant links	https://firma.rp.pl/biznes/innowacje/12554-idealab-fundusze-norweskie-ncbr-polska-norwegia-warsztaty

Example 2

Coverage	Type	National
Description	The promotional article about the IdeaLab workshop. The IdeaLab workshop took place on 2-6 March 2020 in Otwock. Participants from Poland and Norway cooperated with each other in order to create innovative research ideas for products and services for the cities of the future. They were assisted by mentors and director (international experts) and the facilitators. After the IdeaLab workshop the PO launched the IdeaLab Call for Full Proposals. As a result of the call 3 research projects were recommended for funding and 3 more projects were on the reserve list. According to decision of the Donor States to grant additional funds 3 projects from the reserve list were recommended for funding.	
Relevant links	https://businessinsider.com.pl/idealab-dla-miast-przyszlosci/1wfhmrd	

6. Website and social media

6.a. Links to the programme website and social media accounts

Link to programme website					
https://www.gov.pl/web/ncbr-en/iii-ed...					
Total number of page views in the reporting year	Change, compared to last year (in absolute numbers)	Total number of unique visitors in the reporting year	Change, compared to last year (in absolute numbers)		
1284	4266	544	457		
Specific link or handle for the account	Posts published in the reporting year	Total likes in the reporting year	Total comments in the reporting year	Total shares/Retweets etc. in the reporting year	Followers gained since programme launch
Facebook	https://www.facebook.com/NCBIR				
	5	38	1	8	28000
Twitter	https://twitter.com/NCBR_PL				

	2	20	1	4	9937
LinkedIn	https://www.linkedin.com/company/NCBR				
	3	75	0	4	22089

6.b. Results of website and social media activities

The PO regularly posts information about the Programme on the webpage dedicated to the Programme in Polish and English language versions. The webpage is placed under the main NCBR website:

<https://www.gov.pl/web/ncbr/iii-edycja-funduszy-norweskich-i-eog>

<https://www.gov.pl/web/ncbr-en/iii-edition-of-eea-and-norway-grants>

The most frequently published information concerns the implementation of projects (ranking lists, templates of a project contract and documents necessary for signing of a project contract, annual reporting, possible changes, information and promotion in projects as well as media library).

The main website of the NCBR and webpage dedicated to the Programme comply with responsive web design and the Web Content Accessibility Guidelines for the visually impaired.

The most important information for scientific community and general public was posted on the NCBR's Facebook (5 posts), Twitter (2 posts) and LinkedIn profile (3 posts).

7. Visuals

<https://www.eealibrary.org/asset/17083/IdeaLab%20Workshop%20%E2%80%98Cities%20for%20the%20Future:%20services%20and%20solutions%E2%80%99%20?returnTo=%2F%3Fpage%3D1&breadcrumbType=menu>

<https://www.eealibrary.org/asset/17084/IdeaLab%20Workshop%20%E2%80%98Cities%20for%20the%20Future:%20services%20and%20solutions%E2%80%99%20?returnTo=%2F%3Fpage%3D1&breadcrumbType=menu>

<https://www.eealibrary.org/asset/17087/IdeaLab%20Workshop%20%E2%80%98Cities%20for%20the%20Future:%20services%20and%20solutions%E2%80%99%20?returnTo=%2F%3Fpage%3D1&breadcrumbType=menu>

<https://www.eealibrary.org/asset/17091/IdeaLab%20Workshop%20%E2%80%98Cities%20for%20the%20Future:%20services%20and%20solutions%E2%80%99%20?returnTo=%2F%3Fpage%3D1&breadcrumbType=menu>

<https://www.eealibrary.org/asset/17088/IdeaLab%20Workshop%20%E2%80%98Cities%20for%20the%20Future:%20services%20and%20solutions%E2%80%99%20?returnTo=%2F%3Fpage%3D1&breadcrumbType=menu>

Annex 3: Overview of contracted projects

Outcome	Projects	#	# of donor project partners	Amount contracted	% of outcome budget contracted
Outcome 1: Enhanced performance of Polish applied research	Pre-defined	0	0	€ 0	0.00 %
	Contracted through open calls	50	43	€ 71,872,149	92.52 %
	Contracted through small grants scheme	27	0	€ 4,998,169	6.43 %
	Total Outcome 1	77	43	€ 76,870,318	98.95 %
Programme	Total	77	43	€ 76,870,318	98.95 %

Annex 4: Risk management

Programmatic risks						
Risk description	Risk related to	Likelihood	Consequence	Risk score	Response type	Validity
underspending of funds allocated to the projects	Both objectives	3	2	2.45	Mitigate	
	Description of planned response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, policy of financial flexibility in reference to project implementation, ongoing analysis of use of funds in projects; early identification of savings in the projects				
	Description of actual response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, policy of financial flexibility in reference to project implementation, ongoing analysis of use of funds in projects; early identification of savings in the projects				
	Planned future response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, policy of financial flexibility in reference to project implementation, ongoing analysis of use of funds in projects; early identification of savings in the projects				
different understanding of formal guidelines and criteria related to cooperation within the Programme	Both objectives	3	3	3.00	Mitigate	
	Description of planned response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, regular meetings of employees involved in Programme preparation, implementation and completion				
	Description of actual response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, regular meetings of employees involved in Programme preparation, implementation and completion				

	Planned future response	ongoing consultations with RCN, FMO and NFP in Poland, requesting for regular teleconferences to verify and unify all questionable areas associated with the proper Programme management, regular meetings of employees involved in Programme preparation, implementation and completion				
changes in Polish law and/or Donor States' law	Both objectives	2	3	2.45	Mitigate	
	Description of planned response	day-by-day overview of law modification and estimating its influence on the Programme assumptions, ongoing consultations with RCN, FMO and NCP in Poland to find acceptable solutions of preventing the risk of incompatibility with The Programme requirements and to moderate the delays in ongoing projects				
	Description of actual response	day-by-day overview of law modification and estimating its influence on the Programme assumptions, ongoing consultations with RCN, FMO and NCP in Poland to find acceptable solutions of preventing the risk of incompatibility with The Programme requirements and to moderate the delays in ongoing projects				
	Planned future response	day-by-day overview of law modification and estimating its influence on the Programme assumptions, ongoing consultations with RCN, FMO and NCP in Poland to find acceptable solutions of preventing the risk of incompatibility with The Programme requirements and to moderate the delays in ongoing projects				
lower spending on programme management related to COVID-19	Both objectives	3	2	2.45	Mitigate	
	Description of planned response	ongoing consultations with RCN, FMO and NFP in Poland, regular teleconferences to verify and unify all questionable areas associated with the proper Programme management; flexible approach to promotional and communication activities				
	Description of actual response	ongoing consultations with RCN, FMO and NFP in Poland, regular teleconferences to verify and unify all questionable areas associated with the proper Programme management; flexible approach to promotional and communication activities; reallocation of funds from programme management to projects' funding				
	Planned future response	ongoing consultations with RCN, FMO and NFP in Poland, regular teleconferences to verify and unify all questionable areas associated with the proper Programme management; flexible approach to promotional and communication activities				
underachievement of indicators agreed in the	Both objectives	3	1	1.73	Mitigate	

results framework in Annex I of the Programme Agreement	Description of planned response	on time implementation of calls (selection, signing of project contracts etc.), monitoring of funded projects on the basis of periodic reports				
	Description of actual response	on time implementation of calls (selection, signing of project contracts etc.), monitoring of funded projects on the basis of periodic reports, payment requests etc.				
	Planned future response	on time implementation of calls - signing of additional SGS project contracts etc., monitoring of funded projects on the basis of periodic reports, payment requests etc.				
the IdeaLab projects not finished before 30 April 2024	Both objectives	3	3	3.00	Mitigate	New
	Description of planned response	monitoring of the projects by the PO, annual monitoring meetings with external experts, ongoing consultations with RCN, FMO and NFP in Poland				
Operational risks						
Risk description	Risk related to	Likelihood	Consequence	Risk score	Response type	Validity
failure to achieve goals and results of the projects	Both objectives	3	4	3.46	Mitigate	
	Description of planned response	Contact with: PPs to know irregularities/delays in the projects, DPPs to solve misunderstandings/conflicts. Ongoing supervision, e.g. assessment of annual reports (monitoring the status of goals/results); project contracts provide the possibility of: - extension of project duration in case of justified delays - adequate modification of research tasks after a positive recommendation of an independent expert in particularly justified cases (friendly scientific goals and objectives management and supervision)				
	Description of actual response	Contact with: PPs to know irregularities/delays in the projects, DPPs to solve misunderstandings/conflicts. Ongoing supervision, e.g. assessment of annual reports (monitoring the status of goals/results); project contracts provide the possibility of: - extension of project duration in case of justified delays - adequate				

		modification of research tasks after a positive recommendation of an independent expert in particularly justified cases (friendly scientific goals and objectives management and supervision)		
	Planned future response	Contact with: PPs to know irregularities/delays in the projects, DPPs to solve misunderstandings/conflicts. Ongoing supervision, e.g. assessment of annual reports (monitoring the status of goals/results); project contracts provide the possibility of: - extension of project duration in case of justified delays - adequate modification of research tasks after a positive recommendation of an independent expert in particularly justified cases (friendly scientific goals and objectives management and supervision)		
Overall risk of the programme				
		Likelihood	Consequence	Risk score
OVERALL RISK OF THE PROGRAMME		2	4	2.83

Annex 5: Monitoring plan

Please note this Annex is uploaded separately and is not visible in this document. Please download and print separately if needed.

Annex 6: Evaluation report

Not Available

Annex 7: Agreement conditions

General	
Condition	Fulfilled status
<p>1. The National Focal Point shall ensure that pursuant to Article 1.5.2 of the Regulation that the Programme Operator shall ensure that any additional provisions to the implementation of the Programme shall be kept to a minimum, and to this end the Donor Programme Partner shall be closely involved in and effectively contribute to the development of the project contract template and other templates of document(s) relevant to the implementation of the programme, especially those affecting the relation of the project promoter and partner(s).</p>	<p>Is condition fulfilled? - Yes Comment</p> <p>There were no new templates of documents prepared in the reporting period that would necessitate involvement of the Donor Programme Partners. All documents used were based on templates prepared previously. In the course of a contracting phase of POLNOR and IdeaLab calls the PO and DPP acted together and supported each other when answering questions from donor project partners.</p>
<p>2. The National Focal Point shall ensure that the Programme Operator closely cooperates during the implementation of the programme with the Programme Operator of the Basic Research Programme in Poland.</p>	<p>Is condition fulfilled? - Yes Comment</p> <p>The PO worked in close cooperation with the PO of the Basic Research Programme - National Science Centre (NCN) in Cracow. Both POs exchanged their experiences, attended meetings of their Programme Committees and other events such as:</p> <ul style="list-style-type: none"> • participation of NCN in the Project Kick-off Conference of the projects selected in the POLNOR 2019 and POLNOR CCS calls (14 June 2021); • participation of NCN in the Workshops for the Project Promoters of the calls POLNOR 2019, POLNOR CCS

	<p>2019, IdeaLab Call for Full Proposals calls (15 June 2021);</p> <ul style="list-style-type: none">• participation of the PO in the Conference promoting the Basic Research Programme implemented under the 3rd edition of the EEA Grants and Norway Grants organized on 17 June 2021. <p>Both POs participated remotely in the 2 POs meetings:</p> <ol style="list-style-type: none">2. <i>Seminar on the EEA and Norway Grants supporting Open Science, 29 January 2021</i>3. PO workshop in Oslo on December 7-9, 2021. <p>Programme Operators of two Research Programmes in Poland participate together on regular basis in formal working meetings with RCN and discuss the current issues.</p> <p>The cooperation made it possible to enhance the profitability of the relations by improving knowledge transfer and best practices.</p>
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