

**IMPLEMENTATION REPORT FOR THE EUROPEAN TERRITORIAL  
COOPERATION GOAL  
PART A**

**IDENTIFICATION OF THE ANNUAL IMPLEMENTATION REPORT**

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## 2. OVERVIEW OF THE IMPLEMENTATION OF THE COOPERATION PROGRAMME (Article 50(2) of Regulation (EU) No 1303/2013 and Article 14(3)(a) of Regulation (EU) No 1299/2013)

### **Key information on the implementation of the cooperation programme for the year concerned, including on financial instruments, with relation to the financial and indicator data.**

2019 was an intensive year for the Programme implementation. The Programme authorities continued their efforts to complete the funding allocation process as well as simultaneously monitor and provide support to the running projects. In 2019, the Monitoring Committee met four times (MC14 10 January, MC15 6-7 February, MC16 12-13 June, MC17 26-27 September 2019) in order to process the project selection for both step 1 and step 2 submissions of the application process and launch the first capitalization call (October 2019). Consequently, in 2019 25 additional projects were approved across all three thematic Programme Priorities, further detailed in section 3.1 of this report. Even though the capitalization call was finalized in 2020, it should be noted that the selected procedures set in 2019 allowed the approval of projects characterized by strong roll-out or uptake activities taking the projects beyond the initially envisaged impact.

The Programme's communication efforts were significant in 2019. As an example and result, two NWE projects (CAN and eMEN) were amongst the finalists of the REGIOSTARS, the awards given yearly by the European Commission to Cohesion Policy projects that demonstrate excellence results and innovative approaches to regional development. The CAN project competed under "Category 4 - Building climate-resilient cities" and eMEN under "Category 5 - Modernising health services". CAN was the category winner and celebrated its success, together with the Programme authorities on 9 October 2019 at the award ceremony in the European Week of Regions and Cities held in Brussels.

The Programme website underwent significant changes in 2019, in order to shift the focus from call promotion to showcasing the main NWE achievements. The Programme's homepage now gives more visibility to projects and the main topics covered by the programme. In particular, a new "impact page" was created, presenting short descriptions on the main topics financed by the programme as well as articles showcasing successful projects and best practices.

The Programme held two major events in 2019. The first one was the programme's last project development event, aimed at promoting the 9th call for proposals. This "Project Idea Laboratory" was organised in Brussels on 2 April 2019 and brought together over 300 participants. The second major event, called "NWE making an Impact" was our programme's first capitalisation event and took place on 4-5 December 2019 in Tourcoing (Lille agglomeration, Hauts-de-France). The event aimed at creating networking opportunities and building synergies between project results, was the first opportunity to showcase project achievements in a tangible way. 370 participants networked and got unique insights on the results achieved by the 83 NWE projects funded so far as well as detailed guidance on the Programme first call for capitalisation, which resulted in 15 received applications. As part of the event, thematic workshops were organised, based on the themes identified during the Joint Secretariat and Contact Point workshop organised in November 2018, around the topics of hydrogen, marine energy, health, energy efficient/low-carbon buildings, green construction, agri-food production and waste water treatment. The main conclusions of the seven thematic workshops held at the capitalization event as well as the summaries of the six site visits carried out are available on the Programme website. In the scope of the event, the EYES project was awarded the NWE Impact Prize for the most impressive project achievements.

It should also be noted that the year 2019 led to successful closure of several NWE projects approved in call 1. In addition, by end 2019 20 projects (ranging from call 1 to 4) had undergone quality appraisals done by the JS and CPs mid-term through the project implementation, focusing on the strategic project and Programme aspects and bridging the gap between the regular project monitoring and Programme evaluation.

Despite the uncertainty revolving around Brexit, ongoing discussions concerning the post 2020 regulations and MFF, the future geographic scope of the Programme and its budget, the Programme authorities launched the talks relating to the future of the Programme. Since the mandate of the Monitoring Committee only refers to decisions concerning the Interreg NWE 2014-2020 Programme, a separate NWE Task Force with a mandate relating to the new Programme period needed to be established. The Task Force was given the responsibility to oversee the preparations for the new Programme, including the execution of all the necessary processes in a fairly limited time remaining before the start of the post 2020 programmes. This led to the successful procurement of the territorial SWOT analysis in 2019 and the post 2020 Process Leader, both finalized in 2020.

Moreover, in 2019 the Programme was actively involved in events organized by the European institutions. As a few of numerous examples, the meetings with DG Regio and active participation in DG Regio events should be mentioned, such as the annual Interreg event held on 22 and 23 May 2019 in Bucharest, Romania. The event was an opportunity to review programme implementation and discuss the most topical issues related to implementation with the European Commission. In addition, the Programme Director was a speaker at the “EU transnational cooperation in the Making” conference held on 21 June 2019 in Lisbon, Portugal, which led to an article with the same title completed by “Added value of Interreg B” in the third issue of the European Structural and Investment Fund Journal 2019. This contribution was a follow-up of the Programme’s involvement in the publication of prof. Eduardo Medeiros released in 2018 “European Territorial Co-operation, Theoretical and Empirical Approaches to the Process and Impacts of Cross-Border and Transnational Co-operation in Europe”. Furthermore, the Programme Director was also the co-author of the so-called “overlaps paper” referring to the thematic and geographic overlaps in post 2020 period, delivered to the attention of Marc Lemaitre, Director-General of the Directorate General for Regional and Urban Policy.

Last, but not least, the Programme has been actively involved in the Core Group of the electronic Monitoring System group (eMS) established by INTERACT. The system enables the monitoring of projects and Programme implementation as well as electronic exchange of data between programmes and beneficiaries and outer databases such as KEEP. NWE, together with representatives of the Central Europe, Central Baltic and Austria - Hungary transnational and cross-border programmes, constitutes the “Core Group” of the system used by 34 ETC programmes. NWE has attended regular meetings with this group since 2014 with the aim to deliver an efficient system, aligned with the user and European Commission requirements for application, assessment, monitoring and reporting purposes.

### 3. IMPLEMENTATION OF THE PRIORITY AXIS

#### 3.1 Overview of the implementation

ID	Priority axis	Key information on the implementation of the priority axis with reference to key developments, significant problems and steps taken to address these problems
1	INNOVATION	<p>The year 2019 resulted in a further reinforced project pipeline of Priority 1 (Specific Objective 1). The Programme MC approved 11 projects in 2019, the highest number across all three Programme Priorities. The projects completed the existing pipeline, leading to the total of 38 approved projects in Priority 1 by end 2019.</p> <p>The 2019 pipeline focused on all Types of Actions of Priority 1.</p> <ol style="list-style-type: none"> <li>Building the capacity of regions and territories to improve their innovation performance and boosting SME competitiveness <ul style="list-style-type: none"> <li>Digital industries and health: Development and testing of new products for people with dementia - Certification-D; Blockchain based applications – BSART; Technological therapy modernising the management of anxiety of Alzheimer or PTSD patients (eMental health – IT4Anxiety)</li> <li>Manufacturing: High performance braiding (HPB) to manufacture composite materials with increased performance – COBRACOMP</li> <li>Textiles: Closed-loop, large scale recycling of workwear to decrease the ecological impact of the textiles industry (CIRCTEX)</li> <li>Energy: Floating offshore wind, wave and tidal energy – ocean energy farms (OceanDEMO)</li> <li>Construction: digital system supporting reuse and high-quality recycling of building materials (DigitalDeConstruction)</li> <li>Biopharmaceuticals: A zero waste bio-refinery utilising high value salicin extracted from willow (BIOWILL)</li> <li>Agro-food: Efficient use of insects and insect components as building blocks for new food products; Alternative charcoal products (product development, feedstock quality, valorisation – THREE C).</li> </ul> </li> <li>Social innovation - inserting NEETs (individuals not in education, employment or training) on the horticulture job market (IMAGINE)</li> </ol> <p>All approved projects were highly relevant to the SO.</p>
2	LOW CARBON	<p>The year 2019 led to 8 projects approved (3 under SO2, 2 under SO3 and 3 under the SO4) and the total of 35 projects in Priority 2 by the end of 2019. All the newly approved projects were highly relevant to their Specific Objectives and focused on:</p> <ul style="list-style-type: none"> <li>SO2 – new energy use sensors and management systems, allowing a reduction in GHG emissions and energy consumption in post-primary buildings (ENERGE), restoration of C-storage capacity of different types of peatland (via hydrological improvements and Sphagnum propagation -Care-Peat) or net zero energy retrofit of apartment buildings that are financially sustainable, technically feasible and desired by housing associations and public authorities (MUSTBE0)</li> <li>SO3 - batteries and electric storage heaters combined with an original hybrid storage system, removing the barriers limiting their adoption (RedWOLF) as well as application of Solar Thermal Energy in farming in the NWE regions, to increase the share of renewable energies and the decrease of GHG emissions in agriculture (ICaRE4Farms)</li> </ul>

ID	Priority axis	Key information on the implementation of the priority axis with reference to key developments, significant problems and steps taken to address these problems
		<ul style="list-style-type: none"> <li>• SO4 - hydrogen propelled vehicles and green mobility - supply chain for water transport (H2SHIPS), waste collection vehicles - fuel cell garbage trucks (HECTOR), shared mobility options for end-users contributing to limited congestion, CO2 emissions and behavioural change</li> </ul> <p>The above projects contributed to the results envisaged by the Programme under the three SOs:</p> <ul style="list-style-type: none"> <li>• Reduced GHG emissions in transport systems</li> <li>• Optimization of the NWE regions' energy consumption and production or sectors responsible for the highest levels of GHG emissions</li> <li>• Reduction of emissions and energy consumption and an increase in the use of renewable energy (public buildings infrastructure and social housing)</li> </ul>
3	RESOURCE MATERIALS EFFICIENCY AND	<p>NWE continued the efforts to reinforce the existing project pipeline and allocate the remaining funding. As calls 4,5 and 6 resulted in only 5 approved projects in 2018, further efforts were required to strengthen the SO5, Priority 3. Calls 7 and 8 organized in 2019 resulted in additional 6 approved projects, covering:</p> <ul style="list-style-type: none"> <li>• Agriculture (a shift from a linear agro-system to a circular agro-ecosystem that is more and optimizes reuse of natural resources (soil, water and biodiversity)-FABulous Farmers and improving resource efficiency of agribusiness supply chains by minimizing waste (REAMIT)</li> <li>• Electrics and electronics (decrease the amount of waste from electrical and electronic equipment (WEEE) in NWE by increasing rates of repair among citizens, thereby extending product lifetimes – SHAREPAIR)</li> <li>• Metallurgy (increase the reuse of raw material from Past Metallurgical Sites and Deposits (PMSD) and to reduce the volume of waste generated – NWE-REGENERATIS)</li> <li>• Manufacturing (using household waste plastic, scaling it up to be used as a feedstock for industrial electric and additive manufacturing – TRANSFORM-CE).</li> <li>• Infrastructure and construction - a circular pedestrian/cyclist bridge system for large and small infrastructure, as a circular alternative for the (conservative and fossil material dominated) domain of infrastructure, maximizing avoidance of fossil raw material use (Smart Circular Bridge).</li> </ul> <p>The approved projects concentrated on the resource intensive sectors and contributed to the Priority result and result indicator (an optimised use of material resources and a reduction in the use of natural resources in NWE, measured with the use and uptake of eco-innovations in NWE and the resource savings and waste recycling rates.</p>
4	TECHNICAL ASSISTANCE	<p>Both the Contact Points and the Joint Secretariat were mainly involved in the Programme promotion, project development, assessment and monitoring activities and the overall Programme management.</p> <p>The Contact Point network was particularly engaged in the step 1 project development activities (individual meetings, regional and national events, Programme Info Days and a Project Idea Lab).</p> <p>Apart from the step 1 and 2 assessments and the preparations for the capitalization call, the JS Project Unit continuously monitored project implementation and processed two rounds of progress reports and payment claims. In addition, by end</p>

ID	Priority axis	Key information on the implementation of the priority axis with reference to key developments, significant problems and steps taken to address these problems
		<p>2019, 20 projects underwent additional quality appraisals, performed half-way through the project implementation and breaching the gap between the regular project monitoring and Programme evaluation, bringing additional information about the strategic project fit into the Programme Specific Objectives.</p> <p>The Programme and Support Unit, besides its daily tasks related to the Programme monitoring and management as well the support to the main programme stakeholders, facilitated a successful Programme review (AIR 2018) and Second Level Control and launched the procedures for preparation of the post 2020 programme (procurements for the SWOT analysis, Process Leader position as well as the Second Level Audits).</p> <p>The Communication Unit ensured the visibility of the NWE Programme in external events, while updating the programme website and providing guidance to projects on the communication activities. It contributed also to RegioStars success of the CAN project as well as the development and the implementation of the capitalisation strategy, with a dedicated call for proposals launched in October 2019.</p>



## 3.2 Common and programme specific indicators (Article 50(2) of Regulation (EU) No 1303/2013)

### Priority axes other than technical assistance

<b>Priority axis</b>	<b>1 - INNOVATION</b>
Investment priority	1b - Promoting business investment in R&I, developing links and synergies between enterprises, research and development centres and the higher education sector, in particular promoting investment in product and service development, technology transfer, social innovation, eco-innovation, public service applications, demand stimulation, networking, clusters and open innovation through smart specialisation, and supporting technological and applied research, pilot lines, early product validation actions, advanced manufacturing capabilities and first production, in particular in key enabling technologies and diffusion of general purpose technologies, as well as fostering investment necessary for strengthening the crisis response capacities in health services

**Table 2: Common and programme specific output indicators - 1.1b**

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	CO01	Productive investment: Number of enterprises receiving support	Enterprises	540.00	562.00	Total output indicator contributions for ongoing (not completed) operations: 562 (partially achieved output values). The high value for this indicator is due to several projects focusing on generic business support and hence involving many companies through generic type of support provided than initially anticipated (nevertheless aligned with the definition for CO01 provided by the European Commission and applied by the Programme). The Programme initially estimated 20 companies supported per project approved, some projects however provide support to more than 20 enterprises, which leads to high output values and an overachievement.
S	CO01	Productive investment: Number of enterprises receiving support	Enterprises	540.00	2,296.00	Total project pipeline value: 2296. The high value for this indicator is due to several projects focusing on generic business support and involving many companies through more generic type of support than initially anticipated (still aligned with the definition for CO01 provided by the European Commission and applied by the Programme). The Programme initially estimated 20 companies supported per project approved, some projects however provide support to more, which leads to high output values. 2019 projects: BioWill:6, BSTART:60, Certification-D:24, CircTex:15, COBRACOMP:83, IT4Anxiety:15, OceanDEMO:12. 2018 projects: 1432 (COTEMACO:60, EYES:25, HappyMoo: 503, Machining 4.0:50, MATMED:90, MiteControl:16, NWE MEA: 40, NWE-Chance:3, OIP4NWE:13, OPIN:123, PASSION-HF:4, SuNSE:200, UNEET:175, Water Test Network:120, AGRIWASTEVALUE: 10). 2017 projects: 245, 2016:404
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	540.00	362.00	Total output indicator contributions for ongoing (not completed) operations: 362 (partially achieved output values). VR4REHAB contributed 290 - the project develops rehabilitation protocols for patients with musculoskeletal system and neurodisability, requiring high involvement of and co-creation between SMEs, rehabilitation clinics and universities.
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	540.00	630.00	Total project pipeline value : 630 2019 project pipeline:84. BioWill:4, Certification-D:4, CircTex:7, COBRACOMP:3, Digital DeConstruction: 7, IT4Anxiety:15, OceanDEMO:30, THREE C:14. 2018 project pipeline : 105. HappyMoo :3, Mite Control 15, NWE MEA: 40, NWE Chance:3, OIP4NWE:6, OPIN:24, PASSION-HF:4, Water Test Network:10. 2017 project pipeline: 430, BONE:3, IDEA:32, Codex4SMEs: 20, VR4REHAB:375. 2016 project pipeline : 11 ASPECT:8, QCAP:3 In the programming phase the NWE authorities counted 20 companies per project (x27 projects=540). The value for the selected projects is higher than the target due to the high value of VR4REHAB explained above.
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	340.00	465.00	Total output indicator contributions for ongoing (not completed) operations: 465 (partially achieved output values). B4H contributed 420, due to delivered generic business support. The high value for this indicator is due to several projects focusing on generic business support and hence involve many companies through generic type of support provided than initially anticipated (nevertheless aligned with the definition for CO01 provided by the European Commission and applied by the Programme). The Programme initially estimated 20 companies supported per project approved, some projects however provide support to more than 20 enterprises, which leads to high output values and an overachievement.
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	340.00	625.00	Total project pipeline value :625 2019 project pipeline: 104. BioWill:3, Certification-D:24, CircTex:7, Digital DeConstruction: 3, IT4Anxiety:15, OceanDEMO:15, THREE C:37. 2018 project pipeline: 137. HappyMoo:3, MATMED:40, NWE MEA:40, NWE-Chance: 3, OIP4NWE:7, OPIN:10, PASSION-HF:4, Water Test Network: 20, AGRIWASTEVALUE: 10 2017 project pipeline: 28 : UV-ROBOT:3, VR4REHAB:25 2016 project pipeline 356: B4H:330, BE-GOOD:10, BioBase4SME:13, QCAP:3 Changes to 2018 projects values were due to additional technical requirements concerning project outputs and modification requests. The high value for this indicator is due to several projects focusing on generic business support projects, which involve many companies through more generic type of support provided.
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	170.00	Total output indicator contributions for ongoing (not completed) operations: 170 (partially achieved output values). VR4REHAB has delivered 155. The project develops rehabilitation protocols for patients with musculoskeletal system and neurodisability, requiring high involvement of and co-creation between SMEs, rehabilitation clinics and universities. In the programming phase the NWE authorities counted 20 companies per project (x27 projects=540). The value for the selected projects is higher than the target due to the high value of VR4REHAB explained above.
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	780.00	Total project pipeline value: 780 2019 project pipeline: 103. BioWill:3, Certification-D:24, CircTex:7, Digital DeConstruction: 3, IT4Anxiety:15, OceanDEMO:15, THREE C:37. 2018 project pipeline value: 462. COTEMACO:50, HappyMoo:150, OIP4NWE:7, SuNSE:70, UNEET:175, Water Test Network:10. 2017 project pipeline value:206. IDEA:10, Codex4SMEs:46, VR4REHAB:150. 2016 project pipeline value 9: BioBase4SME:9 The high value for this indicator is due to several projects focusing on generic business support.
F	1.01	Number of new or enhanced transnational clusters or innovation networks	No. of clusters and innovation networks	27.00	8.00	Total output indicator contributions for ongoing (not completed) operations: 8 (partially achieved output values).
S	1.01	Number of new or enhanced transnational clusters or innovation networks	No. of clusters and innovation networks	27.00	62.00	Total project pipeline value: 62. In the programming phase, the Programme authorities did not realise that SO1 projects could contribute to this indicator and CO01 simultaneously (indicator related to the enterprises receiving support). When setting the Programme targets, the projects creating networks only (soft projects) were counted under 1.01 and not the projects contributing to CO01 as a principle, also setting up business support networks. This is why the initial target has been exceeded by the Programme. 2019 project pipeline: 21. BSTART:1, Certification-D:1, CircTex:1, COBRACOMP:1, Digital DeConstruction: 8, IMAGINE:1, OceanDEMO:1, THREE C:6, ValuSect:1. 2018 project pipeline value: 28, 2017:11, 2016:2
F	1.02	Number of technologies, products,	No. of solutions	68.00	46.00	Total output indicator contributions for ongoing (not completed) operations: 46.

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
		services and processes developed and tested in real life conditions	tested			Projects BioBase4SME and ASPECT delivered 18 and 14 respectively.
S	1.02	Number of technologies, products, services and processes developed and tested in real life conditions	No. of solutions tested	68.00	378.00	Total project pipeline value 378. In the programming period, the NWE authorities counted 17 projects x 4 technologies/products/services/processes per project =68. However, some of the approved projects exceeded the value of 4. Those are projects focusing on value chain development or waste stream valorization and/or development and testing of several processes and/or products simultaneously. 2019 project pipeline: 155. BioWill:14, BSTART:4, Certification-D:38, COBRACOMP:2, CircTex:12, Digital DeConstruction: 5, IT4Anxiety:10, OceanDEMO:2, THREE C:29, ValuSect:39. 2018 project pipeline value: 159. EYES:3, HappyMoo:5, Machining 4.0:12, Mite Control:3, NWE-Chance:3, OIP4NWE:1, OPIN:30, PASSION-HF:1, UNEET:1, Water Test Network:90, AGRIWASTEVALUE:10. 2017 project pipeline value:24. 2016 project pipeline value:40
F	1.03	Number of pilot actions implemented, focusing on social innovation	No. of actions	30.00	0.00	Total output indicator contributions for ongoing (not completed) operations:0 (partially achieved output values). At the end of 2019 the social innovation projects were still too early in their implementation phase to deliver outputs.
S	1.03	Number of pilot actions implemented, focusing on social innovation	No. of actions	30.00	166.00	Total project pipeline: 166 2019 project pipeline: 23. IMAGINE:6, IT4Anxiety:10, THREE C:7 2018 project pipeline: 139. EYES: 5, UNEET: 126 (high due to the fact that support sessions for companies and individuals needed to be counted separately, each constituting a "micro-initiative", SuNSE:8 2017 project pipeline: 4. SHICC:4. In the programming phase, the NWE authorities counted 10 projects leading to 3 pilot actions each (=30). All approved projects exceeded this value. In particular UNEET has a high value, due to 126 microinitiatives benefiting 750 individual end-users – people not in training, education or employment.
F	1.04	Number of jobs created in all economic sectors	No. of jobs	860.00	243.00	Total output indicator contributions for ongoing (not completed) operations: 243 (partially achieved output values). A particularly high contribution has been noted from the B4H project (222), due to delivered generic business support.
S	1.04	Number of jobs created in all economic sectors	No. of jobs	860.00	518.00	Total project pipeline :518. 2019 project pipeline: 245. CircTex:25, IMAGINE:150, THREE C:70. 2018 project pipeline value: 158. COTEMACO: 125, OIP4NWE:23, PASSION-HF:5. AGRIWASTEVALUE: 5 2017 project pipeline value: 0 2016 project pipeline value: 115. BE-GOOD:15, B4H:100 The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
F	1.05	Number of jobs maintained in all economic sectors	No. of jobs	860.00	5.00	Total output indicator contributions for ongoing (not completed) operations: 5.
S	1.05	Number of jobs maintained in all economic sectors	No. of jobs	860.00	1,291.00	Total project pipeline value:1291 2019 project pipeline: 11. Certification-D:11 2018 project pipeline value: 1280. COTEMACO:1250, Machining 4.0: 25, PASSION-HF:5. 2017 project pipeline value: 0 The value is higher than originally anticipated. In the programming phase the NWE authorities counted 43 projects x 20 jobs (=860). Only 4 social innovation projects have been approved to date, two of three representing values that are lower than expected. However the project COTEMACO (leading to 1250 jobs maintained) is working with 50 SMEs to avoid relocation and subsequent loss of jobs as well as an increase of turnover and revenues due to flexible and more efficient production processes being delivered (assessed in at least 10% increase of an average of €10M turnover/SME, equal to €1M/SME).
F	1.06	Amount of funding leveraged by the project (in €)	EUR	222,000,000.00	0.00	Total output indicator contributions for ongoing (not completed) operations: 0 (partially achieved output values). The amount of funding leveraged by the projects will not be as significant as initially anticipated and will be achieved upon the completion of projects.
S	1.06	Amount of funding leveraged by the project (in €)	EUR	222,000,000.00	24,732,000.00	Total project pipeline value: 24,732,000 2019 project pipeline: 11,732,000. Certification-D:332,000, GitalDeConstruction: 1,400,000, OceanDEMO:10,000,000 2018 project pipeline value: 13,000,000. MATMED:5,000,000, NWE MEA: 8,000,000, The amount of funding leveraged by the projects will not be as significant as initially anticipated.
F	1.07	Number of end-users benefitting from social innovation	No. of end-users	600.00	48.00	Total output indicator contributions for ongoing (not completed) operations: 48 (partially achieved output values). At the end of 2019 the social innovation projects were early in their implementation phase, which is reflected in the low level of outputs delivered in 2019 (as expected).
S	1.07	Number of end-users benefitting from social innovation	No. of end-users	600.00	3,080.00	Total project pipeline value: 3,080 2019 project pipeline: 300. IMAGINE:300 2018 project pipeline value: 2050. EYES:1,000, SuNSE:300, UNEET: 750 2017 project pipeline: 730. SHICC: 730 In the programming phase, the NWE authorities counted 10 projects leading to 3 pilot actions each, having an impact on 20 end-users each. All approved projects exceeded this value. UNEET has a high value, due to 126 micro-initiatives benefiting 750 individual end-users – people not in training, education or employment. EYES will reach 1,000 end-users – 400 of them using regular support schemes, 25 becoming early-stage entrepreneurs. SuNSE allows 300 people access a business support programme, leading to the development of 200 SMEs. SHICC addresses the issue of housing affordability (develops and manages homes affordable to people with low and medium incomes) via 4 big scale pilots.

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	CO01	Productive investment: Number of enterprises receiving support	472.00	0.00	0.00	0.00	0.00
S	CO01	Productive investment: Number of enterprises receiving support	2,081.00	649.00	404.00	0.00	0.00
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	295.00	0.00	0.00	0.00	0.00
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	546.00	441.00	11.00	0.00	0.00
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	367.00	0.00	0.00	0.00	0.00
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	521.00	384.00	356.00	0.00	0.00
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	33.00	0.00	0.00	0.00	0.00
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	677.00	215.00	9.00	0.00	0.00
F	1.01	Number of new or enhanced transnational clusters or innovation networks	3.00	0.00	0.00	0.00	0.00
S	1.01	Number of new or enhanced transnational clusters or innovation networks	41.00	13.00	2.00	0.00	0.00
F	1.02	Number of technologies, products, services and processes developed and tested in real life conditions	33.00	0.00	0.00	0.00	0.00
S	1.02	Number of technologies, products, services and processes developed and tested in real life conditions	223.00	64.00	40.00	0.00	0.00
F	1.03	Number of pilot actions implemented, focusing on social innovation	0.00	0.00	0.00	0.00	0.00
S	1.03	Number of pilot actions implemented, focusing on social innovation	143.00	4.00	0.00	0.00	0.00
F	1.04	Number of jobs created in all economic sectors	133.00	0.00	0.00	0.00	0.00
S	1.04	Number of jobs created in all economic sectors	273.00	115.00	115.00	0.00	0.00
F	1.05	Number of jobs maintained in all economic sectors	1.00	0.00	0.00	0.00	0.00
S	1.05	Number of jobs maintained in all economic sectors	1,280.00	0.00	0.00	0.00	0.00
F	1.06	Amount of funding leveraged by the project (in €)	0.00	0.00	0.00	0.00	0.00
S	1.06	Amount of funding leveraged by the project (in €)	13,000,000.00	0.00	0.00	0.00	0.00
F	1.07	Number of end-users benefitting from social innovation	31.00	0.00	0.00	0.00	0.00

(1)	ID	Indicator	2018	2017	2016	2015	2014
S	1.07	Number of end-users benefitting from social innovation	2,780.00	730.00	0.00	0.00	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]

<b>Priority axis</b>	<b>1 - INNOVATION</b>
Investment priority	1b - Promoting business investment in R&I, developing links and synergies between enterprises, research and development centres and the higher education sector, in particular promoting investment in product and service development, technology transfer, social innovation, eco-innovation, public service applications, demand stimulation, networking, clusters and open innovation through smart specialisation, and supporting technological and applied research, pilot lines, early product validation actions, advanced manufacturing capabilities and first production, in particular in key enabling technologies and diffusion of general purpose technologies, as well as fostering investment necessary for strengthening the crisis response capacities in health services
Specific objective	SO1 - To enhance innovation performance of enterprises throughout NWE regions

**Table 1: Result indicators - 1.1b.SO1**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
R1	Degree of SME involvement in collaboration with other institutions (including R&D)	Percentage	15.00	2014	20.00	15.00		The implementation evaluation carried out by the Programme in 2018 did not include progress of the result indicators. It will however be part of the impact evaluation planned for 2022.

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
R1	Degree of SME involvement in collaboration with other institutions (including R&D)	15.00		15.00		15.00		15.00	

ID	Indicator	2014 Total	2014 Qualitative
R1	Degree of SME involvement in collaboration with other institutions (including R&D)	15.00	

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
<b>Investment priority</b>	<b>4e - Promoting low-carbon strategies for all types of territories, in particular for urban areas, including the promotion of sustainable multimodal urban mobility and mitigation-relevant adaptation measures</b>

**Table 2: Common and programme specific output indicators - 2.4e**

(I)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	CO31	Energy efficiency: Number of households with improved energy consumption classification	Households	450.00	5,282.00	Total output indicator contributions for ongoing (not completed) operations: 5,282 (partially achieved output values, ACE-Retrofitting:3899, CAN:1339, E=0:44 – all 2016 approved projects ). Values for projects ACE-Retrofitting and CAN are particularly high due to large investments and large-scale retrofits of condominiums and social housing and private homes. Their output contributions to the Programme indicator CO31 are therefore much more substantial than anticipated by the Programme. They are however aligned with the European Commission's definition for CO31.
S	CO31	Energy efficiency: Number of households with improved energy consumption classification	Households	450.00	7,639.00	Total project pipeline value:7,639 2019 project pipeline: 415 (MUSTBE0). 2018 project pipeline: 0. 2017 project pipeline:0. 2016 project pipeline 7272: ACE-Retrofitting:6,000, CAN:1180, E=0:44 Values for projects ACE-Retrofitting and CAN are particularly high due to large investments and large-scale retrofits of condominiums and social housing and private homes. Their output contributions to the Programme indicator CO31 are therefore much more substantial than anticipated by the Programme. They are however aligned with the European Commission's definition for CO31. Selected project value is higher than the target value due to the high contribution of ACE-Retrofitting project, explained above. E=0 underwent a modification request and their value changed.
F	CO32	Energy efficiency: Decrease of annual primary energy consumption of public buildings	kWh/year	300,000.00	998.22	Total output indicator contributions for ongoing (not completed) operations: 998.22 (partially achieved output values) - E=0 Only one project contributes to this indicator (E=0). The programme initially anticipated 10 projects.
S	CO32	Energy efficiency: Decrease of annual primary energy consumption of public buildings	kWh/year	300,000.00	23,124.40	Total project pipeline value: 23,124.40. Only two projects contributes to this indicator (E=0:624.40 and ENERGE:22,500 - 2019 project). The programme initially anticipated 10 projects. Adjustments to E=0 values were due to project modification request.
F	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	450.00	7,235.63	Total output indicator contributions for ongoing (not completed) operations: 7,235.63 The main contributors are ACE-Retrofitting (6532 – substantial large-scale retrofits), CAN 526.5 (energy saving measures on neighborhood level), E=0:177.13 - all 2016 approved projects).
S	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	450.00	86,015.80	Total value:86,015.80. 2019 project pipeline: 9,221.40. Care-Peat:7,807, MUSTBE0:1,414.40 2018 value: 44,200 (RegEnergy 44,200). 2017 value: 7,501.9 (ECCO:7,500, cVPP:1.9). 2016 value 25,092.50 (ACE-Retrofitting:8,500, CAN:1,500, E=0:92.50, Heatnet NWE:15,000. Values for ACE-Retrofitting and CAN are high due to large investments and retrofits, RegEnergy due to large scale energy investments (e.g. off-grid supply-demand chain). The Programme targets were set on the basis of the IVB NWE portfolio. The type of VB incoming projects could not be defined with a top-down approach, one common NWE method for a calculation of a target value could not be defined and then used for a correction. Projects work with various energy sources generating varied input to this indicator and also apply different scales of piloting, with an effect on contributions (high value).
F	2.01	Number of solutions facilitating the delivery of existing or emerging low-carbon, energy or climate-protection strategies	No. of solutions	18.00	13.00	Total output indicator contributions for ongoing (not completed) operations: 13 (partially achieved output values: CAN:7, E=0:5, ACE-Retrofitting:1)
S	2.01	Number of solutions facilitating the delivery of existing or emerging low-carbon, energy or climate-protection strategies	No. of solutions	18.00	69.00	Total project pipeline value : 69 2019 project pipeline: 12. Care-Peat:3, ENERGE:4, MUSTBE0:5 2018 project pipeline value:24. CConnects:10, RegEnergy:14 2017 project pipeline value:17: cVPP:15, ECCO:2 2016 project pipeline value: 16. ACE-Retrofitting:3, CAN:7, E=0:5, HeatNet NWE:1. Adjustments to HeatNet NWE value is due to project modification requests. Higher than expected values are due to projects delivering many solutions, not as initially anticipated 3 solutions per project.
F	2.02	Number of combined mitigation-relevant adaptation solutions implemented	No. of solutions	15.00	0.00	Total output indicator contributions for ongoing (not completed) operations: 0.
S	2.02	Number of combined mitigation-relevant adaptation solutions implemented	No. of solutions	15.00	17.00	Total project pipeline value : 17 2019 project pipeline: 9 (Care-Peat:9) 2018 project pipeline value:8. CConnects:8. 2017 project pipeline value:0. 2016 project pipeline value: 0
F	2.03	Number of jobs created in all economic sectors	No. of jobs	200.00	63.50	Total output indicator contributions for ongoing (not completed) operations:63.5 (E=0)
S	2.03	Number of jobs created in all economic sectors	No. of jobs	200.00	48.00	Total project pipeline :48. 2019 project pipeline: 0 2018 project pipeline value:35. CConnects:35. 2017 project pipeline value:0. 2016 project pipeline value:13, E=0:13. The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
F	2.04	Number of jobs maintained in all economic sectors	No. of jobs	200.00	16.20	Total output indicator contributions for ongoing (not completed) operations: 16.20 (E=0).
S	2.04	Number of jobs maintained in all economic sectors	No. of jobs	200.00	105.00	Total project pipeline value :105 2019 project pipeline value:50. Care-Peat:50 2018 project pipeline value:35. CConnects:35. 2017 project pipeline value:0. 2016 project pipeline value:20. E=0:20. The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
F	2.05	Amount of funding leveraged by the project	EUR	80,811,405.00	5,652,999.00	Total output indicator contributions for ongoing (not completed) operations: 5,652,999 (CAN)
S	2.05	Amount of funding leveraged by the project	EUR	80,811,405.00	54,000,000.00	Total project pipeline value: 54,000,000 2019 project pipeline: 0

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
						2018 project pipeline value: 26,500,000. RegEnergy 26,500,000. 2017 project pipeline value: 5,500,000. ECCO 5,500,000. 2016 project pipeline value:14,000,000. CAN:14,000,000 The amount of funding leveraged by the projects will not be as significant as initially anticipated.

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	CO31	Energy efficiency: Number of households with improved energy consumption classification	5,191.00	0.00	0.00	0.00	0.00
S	CO31	Energy efficiency: Number of households with improved energy consumption classification	7,224.00	7,224.00	7,224.00	0.00	0.00
F	CO32	Energy efficiency: Decrease of annual primary energy consumption of public buildings	312.20	0.00	0.00	0.00	0.00
S	CO32	Energy efficiency: Decrease of annual primary energy consumption of public buildings	596.00	0.00	0.00	0.00	0.00
F	CO34	GHG reduction: Estimated annual decrease of GHG	6,946.70	0.00	0.00	0.00	0.00
S	CO34	GHG reduction: Estimated annual decrease of GHG	32,594.40	32,594.40	25,092.50	0.00	0.00
F	2.01	Number of solutions facilitating the delivery of existing or emerging low-carbon, energy or climate-protection strategies	4.00	0.00	0.00	0.00	0.00
S	2.01	Number of solutions facilitating the delivery of existing or emerging low-carbon, energy or climate-protection strategies	57.00	33.00	16.00	0.00	0.00
F	2.02	Number of combined mitigation-relevant adaptation solutions implemented	0.00	0.00	0.00	0.00	0.00
S	2.02	Number of combined mitigation-relevant adaptation solutions implemented	8.00	0.00	0.00	0.00	0.00
F	2.03	Number of jobs created in all economic sectors	10.00	0.00	0.00	0.00	0.00
S	2.03	Number of jobs created in all economic sectors	48.00	13.00	13.00	0.00	0.00
F	2.04	Number of jobs maintained in all economic sectors	10.00	0.00	0.00	0.00	0.00
S	2.04	Number of jobs maintained in all economic sectors	55.00	20.00	20.00	0.00	0.00
F	2.05	Amount of funding leveraged by the project	5,652,999.00	0.00	0.00	0.00	0.00
S	2.05	Amount of funding leveraged by the project	54,000,000.00	27,500,000.00	22,000,000.00	0.00	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
Investment priority	4e - Promoting low-carbon strategies for all types of territories, in particular for urban areas, including the promotion of sustainable multimodal urban mobility and mitigation-relevant adaptation measures
Specific objective	SO2 - To facilitate the implementation of low-carbon, energy and climate protection strategies to reduce GHG emissions in NWE

**Table 1: Result indicators - 2.4e.SO2**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
R2	Effectiveness of the NWE public sector organisations in the implementation of low carbon strategies	Percentage	31.00	2014	18.00	31.00		Given the negative annual growth rate of -15% and the estimate of 9% for 2022, the Programme target value will double the 2022 estimate.  The implementation evaluation carried out by the Programme in 2018 did not include progress of the result indicators. It will however be part of the impact evaluation planned for 2022.

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
R2	Effectiveness of the NWE public sector organisations in the implementation of low carbon strategies	31.00		31.00		31.00		31.00	

ID	Indicator	2014 Total	2014 Qualitative
R2	Effectiveness of the NWE public sector organisations in the implementation of low carbon strategies	31.00	

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
<b>Investment priority</b>	<b>4f - Promoting research and innovation in, and adoption of, low-carbon technologies</b>

**Table 2: Common and programme specific output indicators - 2.4f**

(I)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	220.00	55.00	Total output indicator contributions for ongoing (not completed) operations: 55 (partially achieved output values). FORESESA:22, GenComm:10, PowerVIBES:18
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	220.00	252.00	Total project pipeline value: 252 2019 project pipeline value: 11 (ICaRE4Farms:3, RED Wolf:8) 2018 project pipeline value: 86. SMART-SPACE:4, H4.0E:15, Green WIN:36, DGE-ROLLOUT:7, D2Grids:9, AFLOWT:15, 2017 project pipeline value: 129. CleanMobilEnergy:24, GROOF:30, GenComm:10, LOGiC:3, Up-Straw:20, ITEG:15, PowerVIBES:27 2016 project pipeline value 26, FORESEA:26 In the programming process the NWE authorities counted 20 enterprises per SO3 project. Some of the 2017 and 2018 projects were above and below this value, leading to unequal spread over the years.
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	220.00	47.00	Total output indicator contributions for ongoing (not completed) operations: 47 (partially achieved output values), FORESEA:37, GenComm:4, UP STRAW:6
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	220.00	140.00	Total project pipeline value 140. In the programming phase, the Programme envisaged 20 enterprises per funded project. The approved projects however either represent either high or low output contribution. The goal of the Specific Objective 3 is not to drive the market directly. 2019 project pipeline value: 0 2018 project pipeline value: 4. DGE-ROLLOUT:4 2017 project pipeline value 80, GenComm:10, UP STRAW:70 2016 project pipeline value 52, FORESEA:52
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	220.00	0.00	The values will be reported only for fully implemented operations (partially achieved output values).
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	220.00	50.00	Total project pipeline value: 50 2019 project pipeline value: ICaRE4Farms:40 2018 project pipeline value:0 2017 project pipeline 10, GenComm:10 2016 project pipeline value:0
F	CO30	Renewables: Additional capacity of renewable energy production	MW	120.00	1.87	Total output indicator contributions for ongoing (not completed) operations: 1.87 (CleanMobilEnergy:0.14, GenComm: 0.45, LOGiC:1.28).
S	CO30	Renewables: Additional capacity of renewable energy production	MW	120.00	45.23	Total project pipeline value 45.23 2019 project pipeline value: 1.30:ICaRE4Farms:1, RED WoLF:0.30 2018 project pipeline value 16.2: AFLOWT: 2, D2GRIDS:13,7, DGE-Rollout:0.5 2017 project pipeline value 27.83. CleanMobilEnergy:14.4, GROOF:9.44 (project modification), GenComm:0.76, LOGiC:1.23, ITEG:2. 2016 project pipeline value:0 The Programme initially calculated the target for this indicator as for 10 projects and 5 renewable energy investments =50 investments and counted half(25)with PVs and 25 with biomass boilers (expected pipeline) (25x1,2MW +25x3,5MW = circa 120MW target). NWE projects work with various energy sources generating varied input to this indicator and also apply different scales of piloting with an effect on contributions.
F	CO31	Energy efficiency: Number of households with improved energy consumption classification	Households	660.00	0.00	Achieved values will be reported on the basis of completed project pilots, which are still underway (UP STRAW)
S	CO31	Energy efficiency: Number of households with improved energy consumption classification	Households	660.00	5,000.00	Total project pile pile value 5,000 2019 project pipeline value: 0 2018 project pipeline value:0 2017 project pipeline value 5,000, UP STRAW:5,000 2016 project pipeline value:0
F	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	500.00	275.00	Total output indicator contributions for ongoing (not completed) operations:275 (LOGiC:250, CleanMobilEnergy:25)
S	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	500.00	11,367.79	Total pipeline value 111,367.79. 2019 project pipeline value: 325 (ICaRE4Farms:110, RED WoLF:215 2018 pipeline value:4,849.79. SMART-SPACE:452, H4.0E:1.55, Green WIN:195, DGE-ROLLOUT:2448, D2Grids:1753.24 (modification H.40E) 2017 pipeline value 106,193: CleanMobilEnergy:2,400, LOGiC:793, UP-Straw:100,000, ITEG:3,000. 2016 pipeline value:0. The Programme targets were set based on the IVB NWE portfolio. The type of VB incoming projects could not be defined with a top-down approach, one common NWE method for a calculation of a project target value/used for a correction. NWE projects work with various energy sources generating varied input to this indicator and also apply different scales of piloting with an effect on contributions. UP STRAW has a high number of housing units built/refurbished and a CO2 reduction value.
F	3.01	Number of adopted or applied low carbon technologies	Number of adopted or applied low carbon technologies	44.00	45.00	Total output indicator contributions for ongoing (not completed) operations:45 (partially achieved output values). FORESEA:29, PowerVIBES:11, GenComm:2, LOGiC:3.
S	3.01	Number of adopted or applied low carbon technologies	Number of adopted or applied low carbon technologies	44.00	84.00	Total project pipeline value: 84. 2019 project pipeline value: 2 (ICare4Farms:1, RED Wolf:1) 2018 project pipeline value: 26. AFLOWT:3, D2Grids:15, DGE-Rollout:1, Green WIN:5, H4.0E:1, SMART-SPACE:1. 2017 project pipeline value: 28. CleanMobilEnergy:3, GROOF:4, GenComm:3, LOGiC:4, UP-STraw:4, ITEG:3, PowerVIBES:7



(I)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	3.02	Number of jobs created in all economic sectors	No. of jobs	220.00	100.00	2016 project pipeline value: 28. FORESEA: 28 (modification) Total output indicator contributions for ongoing (not completed) operations: 100 (UP STRAW) Job creation is more likely to be a final project effect (reported in the final project reports rather than interim ones). All projects are ongoing.
S	3.02	Number of jobs created in all economic sectors	No. of jobs	220.00	227.00	Total project pipeline value 227 2019 project pipeline value: 0 2018 project pipeline value:20. H4.0E:20 2017 project pipeline value: 207. GROOF:7 (modification), UP-Straw:200 2016 project pipeline value:0 The 2017 are particularly high due to the UP STRAW project values (high due to high number of professional trainings carried out by the project).
F	3.03	Number of jobs maintained in all economic sectors	No. of jobs	220.00	505.00	Total project pipeline value 227 2019 project pipeline value: 0 2018 project pipeline value:20. H4.0E:20 2017 project pipeline value: 207. GROOF:7 (modification), UP-Straw:200 2016 project pipeline value:0 The 2017 are particularly high due to the UP STRAW project values (high due to high number of professional trainings carried out by the project).
S	3.03	Number of jobs maintained in all economic sectors	No. of jobs	220.00	560.00	Total project pipeline value :560 2019 project pipeline value: 0 2018 project pipeline value :0 2017 project pipeline value: 560, UP-Straw:500, ITEG:60 2016 project pipeline value:0 The 2017 are particularly high due to the UP STRAW project values (high due to high number of professional trainings carried out by the project). Job creation is more likely to be a final project effect (reported in the final project reports rather than interim ones). All projects are ongoing.
F	3.04	Amount of funding leveraged by the project	EUR	87,545,688.00	64,255,029.00	Total output indicator contributions for ongoing (not completed) operations: 64,255,029 (FORESEA) Funding leveraged is more likely to be a final project effect (reported in the final project reports rather than interim ones). All projects are ongoing.
S	3.04	Amount of funding leveraged by the project	EUR	87,545,688.00	82,020,000.00	Total project pipeline value: 82,020,000 2019 project pipeline value: 1,020,000 (ICaRE4Farms (1,020,000)) 2018 project pipeline value:35,000,000. D2Grids:35,000,000 2017 project pipeline value 16,000,000, GROOF:3,000,000, LOGiC:13,000,000 2016 project pipeline value 30,000,000, FORESEA:30,000,000 The amount of funding leveraged by the projects will not be as significant as initially anticipated.

(I)	ID	Indicator	2018	2017	2016	2015	2014
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	19.00	0.00	0.00	0.00	0.00
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	241.00	155.00	26.00	0.00	0.00
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	13.00	0.00	0.00	0.00	0.00
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	140.00	136.00	56.00	0.00	0.00
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	0.00	0.00	0.00	0.00	0.00
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	10.00	10.00	0.00	0.00	0.00
F	CO30	Renewables: Additional capacity of renewable energy production	0.25	0.00	0.00	0.00	0.00
S	CO30	Renewables: Additional capacity of renewable energy production	43.93	27.83	0.00	0.00	0.00
F	CO31	Energy efficiency: Number of households with improved energy consumption classification	0.00	0.00	0.00	0.00	0.00
S	CO31	Energy efficiency: Number of households with improved energy consumption classification	5,000.00	5,000.00	0.00	0.00	0.00
F	CO34	GHG reduction: Estimated annual decrease of GHG	25.00	0.00	0.00	0.00	0.00
S	CO34	GHG reduction: Estimated annual decrease of GHG	111,042.79	106,193.00	0.00	0.00	0.00
F	3.01	Number of adopted or applied low carbon technologies	14.00	0.00	0.00	0.00	0.00
S	3.01	Number of adopted or applied low carbon technologies	82.00	56.00	28.00	0.00	0.00
F	3.02	Number of jobs created in all economic sectors	0.00	0.00	0.00	0.00	0.00
S	3.02	Number of jobs created in all economic sectors	227.00	207.00	56.00	0.00	0.00
F	3.03	Number of jobs maintained in all economic sectors	1,027.00	0.00	0.00	0.00	0.00
S	3.03	Number of jobs maintained in all economic sectors	560.00	560.00	0.00	0.00	0.00
F	3.04	Amount of funding leveraged by the project	1,500.00	0.00	0.00	0.00	0.00
S	3.04	Amount of funding leveraged by the project	81,000,000.00	46,000,000.00	30,000,000.00	0.00	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
Investment priority	4f - Promoting research and innovation in, and adoption of, low-carbon technologies
Specific objective	SO3 - To facilitate the uptake of low carbon technologies, products, processes and services in sectors with high energy saving potential, to reduce GHG emissions in NWE

**Table 1: Result indicators - 2.4f.SO3**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
R3	Status of conditions for low carbon technology deployment in NWE	Percentage	60.00	2014	70.00	60.00		The implementation evaluation carried out by the Programme in 2018 did not include progress of the result indicators. It will however be part of the impact evaluation planned for 2022.

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
R3	Status of conditions for low carbon technology deployment in NWE	60.00		60.00		60.00		60.00	

ID	Indicator	2014 Total	2014 Qualitative
R3	Status of conditions for low carbon technology deployment in NWE	60.00	

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
<b>Investment priority</b>	<b>7c - Developing and improving environmentally-friendly (including low noise) and low-carbon transport systems, including inland waterways and maritime transport, ports, multimodal links and airport infrastructure, in order to promote sustainable regional and local mobility</b>

**Table 2: Common and programme specific output indicators - 2.7c**

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	200.00	81.00	Total output indicator contributions for ongoing (not completed) operations:81 (partially achieved output values). This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation).Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects. The achieved output values were reported by CHIPS (50) and ST4W(22), eHUBS (3), FCCP (2), HECTOR (3), river (1)
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	200.00	117.00	Total project pipeline value:177 2019 project pipeline value:20 2018 project pipeline value:5. FCCP:5 2017 project pipeline value 52, H2Share:2, ST4W:30, river:20 2016 project pipeline value 40: CHIPS:40 Despite interest in the Programme, transport operators (enterprises) find the Programme rules difficult to get involved in projects.
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	200.00	6.00	Total output indicator contributions for ongoing (not completed) operations: 6 (partially achieved output values), projects FCCP (2) and H2SHARE (4). This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	200.00	36.00	Total project pipeline value: 36 This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects. 2019 project pipeline value:30 2018 project pipeline value:2. FCCP:2 2017 project pipeline value: 4, H2Share:4 2016 project pipeline value:0
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	0.00	This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	0.00	Total project pipeline value:0 This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
F	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	500.00	5,003.00	Total output indicator contributions for ongoing (not completed) operations: 5003 (CHIPS, achievements higher than initially estimated).
S	CO34	GHG reduction: Estimated annual decrease of GHG	Tonnes of CO2eq	500.00	2,449.60	Total project pipeline value: 2,499.60, 2019:eHUBS:1,477, H2SHIPS:213, HECTOR:400 2018 :0. 2017 value 400: ST4W:400 (technical requirements modification). 2016 project pipeline value:9.6. CHIPS:9.6 The Programme targets were set on the basis of the IVB NWE portfolio. The type of VB incoming projects could not be defined with a top-down approach, one common NWE method for a calculation of a project target value could not be defined and then used for a correction. NWE projects work with various energy sources generating varied input to this indicator and also apply different scales of piloting with an effect on contributions. CHIPS miscalculated its figures at the start at their achievement was a lot higher than initially anticipated.
F	4.01	Number of implemented low carbon solutions in transport	No. of solutions	20.00	12.00	Total output indicator contributions for ongoing (not completed) operations: 12 (partially achieved output values) (CHIPS). This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
S	4.01	Number of implemented low carbon solutions in transport	No. of solutions	20.00	23.00	Total project pipeline value: 23. 2019 project pipeline value: 3. eHUBS:1, H2SHIPS:1, HECTOR: 1 2018 project pipeline value:1. FCCP:1 2017 project pipeline value 8, H2Share:2, ST4W:4, river:2 2016 project pipeline value 11, CHIPS:11
F	4.02	Number of new or improved transport management systems leading to GHG reduction	No. of systems	10.00	2.00	Total output indicator contributions for ongoing (not completed) operations: 2 (ST4W, partially achieved output values). This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
S	4.02	Number of new or improved transport management systems leading to GHG reduction	No. of systems	10.00	6.00	Total project pipeline value: 6. 2019 project pipeline value: 0 2018 project pipeline value: 1. FCCP:1 2017 project pipeline value 5, ST4W:5 2016 project pipeline value :0 In 2018 only one SO4 project FCCP was approved, hence the low 2018 contribution.
F	4.03	Number of transport operators supported implementing low carbon solutions	No. of transport operators	200.00	9.00	Total output indicator contributions for ongoing (not completed) operations:9 (FCCP:2, HECTOR:7, partially achieved output values). This reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation). Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
S	4.03	Number of transport operators supported implementing low carbon solutions	No. of transport operators	200.00	13.00	Total project pipeline value: 13. 2019 project pipeline value: 7 (HECTOR:7) 2018 project pipeline value: FCCP:2 2017 project pipeline value: H2Share:4

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
						2016 project pipeline value :0 Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects. Few projects have been approved, hence the low 2018 contribution.
F	4.04	Number of jobs created in all economic sectors	No. of jobs	200.00	0.00	Total output indicator contributions for ongoing (not completed) operations : 0 (partially achieved output values). The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
S	4.04	Number of jobs created in all economic sectors	No. of jobs	200.00	0.00	Total project pipeline value:0 The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
F	4.05	Number of jobs maintained in all economic sectors	No. of jobs	200.00	0.00	The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
S	4.05	Number of jobs maintained in all economic sectors	No. of jobs	200.00	0.00	Total project pipeline value:0 The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
F	4.06	Amount of funding leveraged by the project	EUR	80,811,405.00	200,000,000.00	Total output indicator contributions for ongoing (not completed) operations: CHIPS managed to leverage much more funding than initially anticipated.
S	4.06	Amount of funding leveraged by the project	EUR	80,811,405.00	59,700,000.00	Total output indicator contributions for ongoing (not completed) operations: H2SHIPS:5,000,000 (2019), CHIPS 54,700,000(2016)

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	28.00	0.00	0.00	0.00	0.00
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	97.00	92.00	40.00	0.00	0.00
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	2.00	0.00	0.00	0.00	0.00
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	6.00	4.00	0.00	0.00	0.00
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	0.00	0.00	0.00	0.00	0.00
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	0.00	0.00	0.00	0.00	0.00
F	CO34	GHG reduction: Estimated annual decrease of GHG	3.00	0.00	0.00	0.00	0.00
S	CO34	GHG reduction: Estimated annual decrease of GHG	409.60	409.60	9.60	0.00	0.00
F	4.01	Number of implemented low carbon solutions in transport	6.00	0.00	0.00	0.00	0.00
S	4.01	Number of implemented low carbon solutions in transport	20.00	19.00	11.00	0.00	0.00
F	4.02	Number of new or improved transport management systems leading to GHG reduction	0.00	0.00	0.00	0.00	0.00
S	4.02	Number of new or improved transport management systems leading to GHG reduction	6.00	5.00	0.00	0.00	0.00
F	4.03	Number of transport operators supported implementing low carbon solutions	2.00	0.00	0.00	0.00	0.00
S	4.03	Number of transport operators supported implementing low carbon solutions	6.00	4.00	0.00	0.00	0.00
F	4.04	Number of jobs created in all economic sectors	0.00	0.00	0.00	0.00	0.00
S	4.04	Number of jobs created in all economic sectors	0.00	0.00	0.00	0.00	0.00
F	4.05	Number of jobs maintained in all economic sectors	0.00	0.00	0.00	0.00	0.00
S	4.05	Number of jobs maintained in all economic sectors	0.00	0.00	0.00	0.00	0.00
F	4.06	Amount of funding leveraged by the project	55,000,000.00	0.00	0.00	0.00	0.00
S	4.06	Amount of funding leveraged by the project	54,700,000.00	54,700,000.00	0.00	0.00	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]

<b>Priority axis</b>	<b>2 - LOW CARBON</b>
Investment priority	7c - Developing and improving environmentally-friendly (including low noise) and low-carbon transport systems, including inland waterways and maritime transport, ports, multimodal links and airport infrastructure, in order to promote sustainable regional and local mobility
Specific objective	SO4 - To facilitate the implementation of transnational low-carbon solutions in transport systems to reduce GHG emissions in NWE

**Table 1: Result indicators - 2.7c.SO4**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
R4	Status of competences of the transport sector in the use of low carbon solutions in the transport systems	Percentage	6.00	2014	15.00	6.00		The implementation evaluation carried out by the Programme in 2018 did not include progress of the result indicators. It will however be part of the impact evaluation planned for 2022.

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
R4	Status of competences of the transport sector in the use of low carbon solutions in the transport systems	6.00		6.00		6.00		6.00	

ID	Indicator	2014 Total	2014 Qualitative
R4	Status of competences of the transport sector in the use of low carbon solutions in the transport systems	6.00	

<b>Priority axis</b>	<b>3 - RESOURCE AND MATERIALS EFFICIENCY</b>
<b>Investment priority</b>	<b>6f - Promoting innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector and with regard to soil, or to reduce air pollution</b>

**Table 2: Common and programme specific output indicators - 3.6f**

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	CO01	Productive investment: Number of enterprises receiving support	Enterprises	200.00	341.00	Total contributions for ongoing (not completed) operations: 341 (partially achieved output values for AFTB:24, Food Heroes 254, Phos4You 50, Fibersort 10, SeRaMCo:3). In the programming phase, NWE envisaged 20 enterprises per project, exceeded by a few projects. RAWFILL involves enterprises in studies and provides them with a tool applied by them (high outreach and effective application). ReNu2Farm provides expert guidance in product categorisation, enterprises receive training in demonstrations, recycling-fertilizer producers benefits from market strategies developed. Phos4You involves enterprises in the development and operation of phosphorus recovery from wastewater. SeRaMCo helps companies develop innovative concrete and cement mixes, involving them at various stages of the production process. Food Heroes allows proof of concept and has a high outreach as well
S	CO01	Productive investment: Number of enterprises receiving support	Enterprises	200.00	1,101.00	Total project pipeline value: 1101. In the programming phase, NWE envisaged 20 enterprises per funded project. A few projects however exceeded this number, some are under this value, which explains the difference between the high achieved values for this indicator and the Programme target. 2019 project pipeline:646 (FABulous Farmers:315, NWE-REGENERATIS:26, REAMIT:10, SHAREPAIR:120, Smart Circular Bridge:155, TRANSFORM-CE:20) 2018 project pipeline 223: WOW!:9, FCRBE: 36, CHARM: 9, CEDACI: 61, URBCON: 18, Di-Plast: 90 2017 project pipeline value 348: ALG-AD:15, Phos4You:45 (modification), RAWFILL:205, ReNu2Farm:48, SeRaMCo:31, SURICATES:4 2016 project pipeline value 36. AFTB:10, Fibersort:5, Food Heroes:15 (modification), RE-DIRECT:6
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	200.00	96.00	Total output indicator contributions for ongoing (not completed) operations:96 (partially achieved output values - Food Heroes:88, Phos4You:5, SeRaMCo:3) In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate.
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	Enterprises	200.00	134.00	Total project pipeline value: 134. In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate. 2019 project pipeline:10 (FABulous Farmers:1, NWE-REGENERATIS:3, Smart Circular Bridge:6) 2018 project pipeline value:22. CEDACI:11, URBCON:11 2017 project pipeline value: 56. Phos4You: 6 (modification), SeRaMCo:4, SURICATES:4, ALG-AD:14, ReNu2Farm:28 2016 project pipeline value: 46. AFTB:6, Food Heroes:40 SO5 of the Programme does not focus on the research element of projects as SO1, this is why the structure of project partnerships rarely requires an R&D institution.
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	200.00	24.00	Total output indicator contributions for ongoing (not completed) operations: 24 (partially achieved output values, AFTB:12, RE-DIRECT:10, Phos4You:2). In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate.
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	Enterprises	200.00	101.00	Total project pipeline value: 101 In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate. Experience shows that the path to eco-innovation diffusion is long and the testing of new approaches and technologies does not automatically result in the direct introduction of ecoinnovation in companies or market. The goal of the Specific Objective 5 is to increase the competences in the resource intensive sector, not to drive the market. 2019 project pipeline:2 (Smart Circular Bridge) 2018 project pipeline value: 10. URBCON:4, WOW!:6 2017 project pipeline value: 61. Phos4You:11 (modification), SeRaMCo:20, ALG-AD:10, ReNu2Farm:20 2016 pipeline value: 28. AFTB:10, Food Heroes:3, RE-DIRECT:15
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	11.00	Total output indicator contributions for ongoing (not completed) operations: 11 (partially achieved output values, Fibersort:6, RE-DIRECT:5). In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate.
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	Enterprises	200.00	52.00	Total project pipeline value: 52. In the programming phase, the Programme envisaged 20 enterprises per funded project, which was an overestimate. The Programme experience shows that the path to eco-innovation diffusion is long and the testing of new approaches and technologies facilitated by the Programme does not automatically result in the direct introduction of eco-innovation in companies or market. Also, the goal of the Specific Objective 5 is to increase the competences in the resource intensive sector, not to drive the market directly. 2019 project pipeline value: 12 (REAMIT:10, Smart Circular Bridge:2) 2018 project pipeline value: 16. DI-PLAST:12, URBCON:4. 2017 project pipeline value: 0 2016 project pipeline value 24. Fibersort:10 (modification), Food Heroes: 12, RE-DIRECT:2 (modification)
F	5.01	Number of efficient natural and material resources solutions implemented and tested	No. of solutions implemented	42.00	3.00	Total output indicator contributions for ongoing (not completed) operations:3 (partially achieved output values, Fibersort:1, Phos4You:1, RE-DIRECT:1). The solutions are only reported when fully applied in all the required scenarios, which explains why the achieved-to-date-value is low.
S	5.01	Number of efficient natural and material resources solutions implemented and tested	No. of solutions implemented	42.00	101.00	Total project pipeline value :101 2019 project pipeline value: 16 (FABulous Farmers:1, NWE-REGENERATIS:1, REAMIT:8, SHAREPAIR:1, Smart Circular Bridge (SCB)3, TRANSFORM-CE:2). 2018 project pipeline value:12. CHARM:2, Di-Plast:1, FCRBE:7, URBCON:1, WOW!:1 2017 project pipeline value 53: Phos4You:6, RAWFILL:1, SURICATES:12 (modification), ALG-AD:1, ReNu2Farm:33 2016 project pipeline value 26, AFTB:3, Fibersort:1, Food Heroes:15, RE-DIRECT:7 Several projects focus on multiple solutions, while the Programme estimated that each funded project would result in one only per project. The aggregated value for the selected projects is higher than the original Programme target. This also results in different project contributions and annual values.
F	5.02	Number of innovative uses of waste processes/products/services from waste materials	No. of solutions designed	18.00	27.00	Total output indicator contributions for ongoing (not completed) operations:27 (partially achieved output values, SeRaMCo:25, Phos4You:2). Projects often apply more than 1 solution/technology/product/service, which results in high output achievement figures. In the programming phase, the Programme counted 1 solution per project only. This explains the fairly high level of achievement of outputs to date.
S	5.02	Number of innovative uses of waste processes/products/services from waste materials	No. of solutions designed	18.00	87.00	Total project pipeline value:87. Projects often apply more than 1 solution/technology/product/service, which results in high output achievement figures. In the programming phase, the Programme counted 1 solution per project only. This explains the overachievement as well as the different annual values. 2019 project pipeline value: 4 (NWE-REGENERATIS:2, TRANSFORM-CE:2) 2018 project pipeline value:17. CEDACI:2, URBCON:5, WOW!:10 2017 project pipeline value 55. Phos4You:20 (project approved in 2016 but contracted in 2017), ALG-AD:2, ReNu2Farm:16, SeRaMCo:17. 2016 project pipeline value 11. RE-DIRECT: 11

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	5.03	Amount of funding leveraged by the project	EUR	161,622,811.00	2,000,000.00	Total output indicator contributions for ongoing (not completed) operations:2,000,000 (partially achieved output values RE-DIRECT). The amount of funding leveraged by the projects will not be as significant as initially anticipated, as this is the next step in the industrial process application. NWE does not fund commercialisation of products/ processes, which would result in a more direct leverage.
S	5.03	Amount of funding leveraged by the project	EUR	161,622,811.00	2,000,000.00	Total project pipeline value:2,000,000 2019 project pipeline value:0 2018 project pipeline value: 0 2017 project pipeline value: 0 2016 project pipeline value :2,000,000. RE:DIRECT: 2,000,000 The amount of funding leveraged by the projects will not be as significant as initially anticipated, as this is the next step in the industrial process application. NWE does not fund commercialisation of products/ processes, which would result in a more direct leverage.
F	5.04	Amount of decreased raw material use	Tonnes	1,000,000.00	428.00	Total output indicator contributions for ongoing (not completed) operations:428 (Fibersort). The industrial validation and verification processes that are the goal of the funded project, focusing on piloting and demonstration of innovative processes and products do not immediately result in the tonnage of decreased raw material use and increased material recovery, re-use and recycling. Resource savings and waste recycling rates are likely to be the long-term effects of measures applied by projects rather than a direct outcome of their implementation. The value for this indicator is expected to be lower than initially anticipated.
S	5.04	Amount of decreased raw material use	Tonnes	1,000,000.00	256,184.00	Total project pipeline value : 256,184 2019 project pipeline value: 155 (Smart Circular Bridge) 2018 project pipeline value : 6,029. CHARM : 5,975, URBCON:54 2017 project pipeline value : 220,000, SURICATES:220,000 2016 project pipeline value : 30,000, Fibersort:10,000, RE-DIRECT:20,000 The industrial validation and verification processes (goal of the funded projects focusing on piloting and demonstration of innovative processes and products) do not immediately result in the tonnage of decreased raw material use and increased material recovery, re-use and recycling. Resource savings and waste recycling rates are likely to be the long-term effects of measures applied by projects rather than a direct outcome of their implementation.The value for this indicator is expected to be lower than initial anticipated.
F	5.05	Amount of increased material recovery, re-use and recycling	Tonnes	1,000,000.00	44,058.00	Total output indicator contributions for ongoing (not completed) operations:44,058 (Fibersort:909, RAWFILL:7,419, SeRaMCo:730, SURICATES:35,000). The industrial validation and verification processes that are the goal of the funded project, focusing on piloting and demonstration of innovative processes and products do not immediately result in the tonnage of decreased raw material use and increased material recovery, re-use and recycling. Resource savings and waste recycling rates are likely to be the long-term effects of projects.
S	5.05	Amount of increased material recovery, re-use and recycling	Tonnes	1,000,000.00	326,966.27	Total project pipeline value: 326,966.27 2019 project pipeline value: 3,496.27 (NWE-REGENERATIS:800, SHAREPAIR:116.27, TRANSFORM-CE:2,580) 2018 project pipeline value: 28,295. CHARM:5,935, FCRBE:360, Di-Plast:22,000 2017 project pipeline value: 281,175. Phos4You:4,000, RAWFILL:4,175 (modification), SeRaMCo: 51,500, SURICATES:220,000 ALG-AD:1,500 2016 project pipeline value : 14,000. Fibersort:13,000, RE-DIRECT:1,000 The industrial validation and verification processes that are the goal of the funded project, focusing on piloting and demonstration of innovative processes and products do not immediately result in the tonnage of decreased raw material use and increased material recovery, re-use and recycling. Resource savings and waste recycling rates are likely to be the long-term effects of projects.
F	5.06	Number of jobs created in all economic sectors	No. of jobs	400.00	23.00	Total output indicator contributions for ongoing (not completed) operations:23 (Di-Plast:5, Fibersort:8, RE-DIRECT:10). The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme.
S	5.06	Number of jobs created in all economic sectors	No. of jobs	400.00	78.00	Total project pipeline value: 78 2019 project pipeline value: 50 2018 project pipeline value: 5. DI-Plast:5 2017 project pipeline value: 8, ALG-AD:8 2016 project pipeline value : 65, Fibersort:40, RE-DIRECT:25 The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme. The differences between 2017 and 2018 values are minimal. Initially the Programme counted 20 jobs per project, however the approved pipeline shows different values, depending on the project.
F	5.07	Number of jobs maintained in all economic sectors	No. of jobs	400.00	10.00	Total output indicator contributions for ongoing (not completed) operations:10 (partially achieved output values, RE-DIRECT). The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme. The achieved value was reported by the ALG-AD project approved in 2017.
S	5.07	Number of jobs maintained in all economic sectors	No. of jobs	400.00	82.00	Total project pipeline value: 82. The project contribution to job creation and maintenance will not be as significant as initially anticipated. It is not a primary goal of the projects or the Programme. 2019 project pipeline:50 (SHAREPAIR) 2018 project pipeline value:0 2017 project pipeline value: 7. ALG-AD:7 2016 project pipeline value : 25. RE-DIRECT:25

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	CO01	Productive investment: Number of enterprises receiving support	262.00	0.00	0.00	0.00	0.00
S	CO01	Productive investment: Number of enterprises receiving support	607.00	384.00	36.00	0.00	0.00
F	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	79.00	0.00	0.00	0.00	0.00
S	CO26	Research, Innovation: Number of enterprises cooperating with research institutions	124.00	102.00	46.00	0.00	0.00
F	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	2.00	0.00	0.00	0.00	0.00
S	CO28	Research, Innovation: Number of enterprises supported to introduce new to the market products	99.00	89.00	28.00	0.00	0.00
F	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	6.00	0.00	0.00	0.00	0.00
S	CO29	Research, Innovation: Number of enterprises supported to introduce new to the firm products	40.00	24.00	24.00	0.00	0.00
F	5.01	Number of efficient natural and material resources solutions implemented and tested	1.00	0.00	0.00	0.00	0.00
S	5.01	Number of efficient natural and material resources solutions implemented and tested	85.00	73.00	26.00	0.00	0.00
F	5.02	Number of innovative uses of waste processes/products/services from waste materials	12.00	0.00	0.00	0.00	0.00
S	5.02	Number of innovative uses of waste processes/products/services from waste materials	83.00	66.00	11.00	0.00	0.00
F	5.03	Amount of funding leveraged by the project	2,000,000.00	0.00	0.00	0.00	0.00
S	5.03	Amount of funding leveraged by the project	2,000,000.00	2,000,000.00	2,000,000.00	0.00	0.00
F	5.04	Amount of decreased raw material use	250.00	0.00	0.00	0.00	0.00
S	5.04	Amount of decreased raw material use	256,029.00	250,000.00	30,000.00	0.00	0.00
F	5.05	Amount of increased material recovery, re-use and recycling	3,500.00	0.00	0.00	0.00	0.00
S	5.05	Amount of increased material recovery, re-use and recycling	323,470.00	295,175.00	14,000.00	0.00	0.00
F	5.06	Number of jobs created in all economic sectors	12.00	0.00	0.00	0.00	0.00
S	5.06	Number of jobs created in all economic sectors	78.00	73.00	65.00	0.00	0.00
F	5.07	Number of jobs maintained in all economic sectors	4.00	0.00	0.00	0.00	0.00

(1)	ID	Indicator	2018	2017	2016	2015	2014
S	5.07	Number of jobs maintained in all economic sectors	32.00	32.00	25.00	0.00	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]



<b>Priority axis</b>	<b>3 - RESOURCE AND MATERIALS EFFICIENCY</b>
Investment priority	6f - Promoting innovative technologies to improve environmental protection and resource efficiency in the waste sector, water sector and with regard to soil, or to reduce air pollution
Specific objective	SO5 - To optimise (re)use of material and natural resources in NWE

**Table 1: Result indicators - 3.6f.SO5**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
R5	Status of competences in the resource intensive sectors in NWE for eco-innovation diffusion	Percentage	110.00	2014	112.00	110.00		<p>The baseline and target values represent 110% and 112% of the EU average respectively.</p> <p>The implementation evaluation carried out by the Programme in 2018 did not include progress of the result indicators. It will however be part of the impact evaluation planned for 2022.</p>

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
R5	Status of competences in the resource intensive sectors in NWE for eco-innovation diffusion	110.00		110.00		110.00		110.00	

ID	Indicator	2014 Total	2014 Qualitative
R5	Status of competences in the resource intensive sectors in NWE for eco-innovation diffusion	110.00	

## Priority axes for technical assistance

Priority axis	4 - TECHNICAL ASSISTANCE
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**Table 2: Common and programme specific output indicators - 4. TECHNICAL ASSISTANCE**

(1)	ID	Indicator	Measurement unit	Target value	2019	Observations
F	6.01	Number of Transnational Cooperation projects approved	Number		95.00	25 projects approved by the Programme MCs in 2019, 30 projects approved by the Programme MCs in 2018, 23 projects approved by the Programme MCs in 2017, 17 projects approved by the Programme MCs in 2016
S	6.01	Number of Transnational Cooperation projects approved	Number		95.00	25 projects approved by the Programme MCs in 2019, 30 projects approved by the Programme MCs in 2018, 23 projects approved by the Programme MCs in 2017, 17 projects approved by the Programme MCs in 2016
F	6.03	Average number of visits to the Programme website	Number/month		11,479.00	18,090 visits in average per month of the year 2019 12,196 visits in average per month of the year 2018, 9,037 visits in average per month of the year 2017 and 6,590 in 2016
S	6.03	Average number of visits to the Programme website	Number/month		11,479.00	18,090 visits in average per month of the year 2019 12,196 visits in average per month of the year 2018, 9,037 visits in average per month of the year 2017 and 6,590 in 2016
F	6.04	Number of Monitoring Committee meetings	Number		17.00	2019 4 MCs: 10 January 2019, 6-7 February 2019, 12-13 June 2019, 25-26 Sept 2019 2018 5 MCs: 31 January-1 February 2018, 7 March 2018, 29 May 2018, 26-27 June 2018, 25-26 October 2018 2017 3 MCs: 14-15 March 2017, 11 May and 19-20 September 2017; 2016 3 MCs: 23-25 February 2016; 25 May 2016; 13-15 September 2016
S	6.04	Number of Monitoring Committee meetings	Number		17.00	2019 4 MCs: 10 January 2019, 6-7 February 2019, 12-13 June 2019, 25-26 Sept 2019 2018 5 MCs: 31 January-1 February 2018, 7 March 2018, 29 May 2018, 26-27 June 2018, 25-26 October 2018 2017 3 MCs: 14-15 March 2017, 11 May and 19-20 September 2017; 2016 3 MCs: 23-25 February 2016; 25 May 2016; 13-15 September 2016
F	6.05	Duration of reimbursement of expenditure to final beneficiaries	Weeks		7.83	2019: 6.8 weeks; 2018 : 7,7 weeks; 2017: 8,7 weeks ; 2016: 8.1 weeks
S	6.05	Duration of reimbursement of expenditure to final beneficiaries	Weeks		7.83	2-19: 6.8 weeks; 2018 : 7,7 weeks; 2017: 8,7 weeks ; 2016: 8.1 weeks
F	6.06	Number of appeals to calls for proposals	Number		8.00	2019 value 4: CLASH, InclusiveFieldLabs, SmartCircularBridge, Ecopan 2018 value 1: Homes4All (21/06/2018); 2017 value 1: Urban Farming Now (23/10/2017); 2016 value 2: Greening Brownfields (14/01/2016), H2SME (07/10/2016)
S	6.06	Number of appeals to calls for proposals	Number		8.00	2019 value 4: CLASH, InclusiveFieldLabs, SmartCircularBridge, Ecopan 2018 value 1: Homes4All (21/06/2018); 2017 value 1: Urban Farming Now (23/10/2017); 2016 value 2: Greening Brownfields (14/01/2016), H2SME (07/10/2016)
F	6.07	Number of evaluations, studies, surveys, experts, reports	Number		3.00	2018: Implementation evaluation; 2017: Territorial cohesion indicators (report); 2016: Evaluation of the two-step approach (report) ;
S	6.07	Number of evaluations, studies, surveys, experts, reports	Number		3.00	2018: Implementation evaluation; 2017: Territorial cohesion indicators (report); 2016: Evaluation of the two-step approach (report) ;
F	6.08	Number of employees whose salaries are co-financed by Technical Assistance	Number		35.00	2019: 35 Employees of the JS and Contact Points - 23 JS officers and 12 Contact Point staff members (not all working full-time); 2018: 34 Employees of the JS and Contact Points - 22 JS officers and 12 Contact Point staff members (not all working full-time); 35 in 2017 and 35 in 2016
S	6.08	Number of employees whose salaries are co-financed by Technical Assistance	Number		35.00	2019: 35 Employees of the JS and Contact Points - 23 JS officers and 12 Contact Point staff members (not all working full-time); 2018: 34 Employees of the JS and Contact Points - 22 JS officers and 12 Contact Point staff members (not all working full-time); 35 in 2017 and 35 in 2016
F	6.09	Staff turn-over	Percentage		24.00	Staff turn-over for the JS and Contact Points
S	6.09	Staff turn-over	Percentage		24.00	Staff turn-over for the JS and Contact Points

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	6.01	Number of Transnational Cooperation projects approved	70.00	40.00	17.00	0.00	0.00
S	6.01	Number of Transnational Cooperation projects approved	70.00	40.00	17.00	0.00	0.00
F	6.03	Average number of visits to the Programme website	9,275.00	7,814.00	6,590.00	0.00	0.00
S	6.03	Average number of visits to the Programme website	9,275.00	7,814.00	6,590.00	0.00	0.00

(1)	ID	Indicator	2018	2017	2016	2015	2014
F	6.04	Number of Monitoring Committee meetings	13.00	8.00	5.00	2.00	0.00
S	6.04	Number of Monitoring Committee meetings	13.00	8.00	5.00	2.00	0.00
F	6.05	Duration of reimbursement of expenditure to final beneficiaries	8.17	8.40	8.10	0.00	0.00
S	6.05	Duration of reimbursement of expenditure to final beneficiaries	8.17	8.40	8.10	0.00	0.00
F	6.06	Number of appeals to calls for proposals	4.00	3.00	2.00	0.00	0.00
S	6.06	Number of appeals to calls for proposals	4.00	3.00	2.00	0.00	0.00
F	6.07	Number of evaluations, studies, surveys, experts, reports	3.00	2.00	1.00	0.00	0.00
S	6.07	Number of evaluations, studies, surveys, experts, reports	3.00	2.00	1.00	0.00	0.00
F	6.08	Number of employees whose salaries are co-financed by Technical Assistance	34.00	35.00	35.00	22.88	20.08
S	6.08	Number of employees whose salaries are co-financed by Technical Assistance	34.00	35.00	35.00	22.88	20.08
F	6.09	Staff turn-over	25.00	18.00	20.00	13.90	0.00
S	6.09	Staff turn-over	25.00	18.00	20.00	13.90	0.00

(1) S=Cumulative value - outputs to be delivered by selected operations [forecast provided by beneficiaries], F=Cumulative value - outputs delivered by operations [actual achievement]

Priority axis	4 - TECHNICAL ASSISTANCE
Specific objective	SO6 - To maximise the effectiveness and efficiency of the management and implementation of the INTERREG NWE Programme

**Table 1: Result indicators - 4.SO6**

ID	Indicator	Measurement unit	Baseline value	Baseline year	Target value (2023) Total	2019 Total	2019 Qualitative	Observations
TA1	Share (%) of all supported operations that are implemented successfully, demonstrated by the achievement of planned objectives	Percentage	0.00	2013	90.00	3.00		First projects close in 2019
TA2	Percentage of satisfaction of supporting beneficiaries in the implementation and communication of their projects	Percentage	66.00	2014	76.00	66.00		To be updated with the communication evaluation planned in 2020
TA3	Amount of regular expenditure in sample for audit of operation	Percentage	0.00	2013	98.00	99.90		

ID	Indicator	2018 Total	2018 Qualitative	2017 Total	2017 Qualitative	2016 Total	2016 Qualitative	2015 Total	2015 Qualitative
TA1	Share (%) of all supported operations that are implemented successfully, demonstrated by the achievement of planned objectives	0.00		0.00		0.00		0.00	
TA2	Percentage of satisfaction of supporting beneficiaries in the implementation and communication of their projects	66.00		66.00		66.00		66.00	
TA3	Amount of regular expenditure in sample for audit of operation	99.95		0.00		0.00		0.00	

ID	Indicator	2014 Total	2014 Qualitative
TA1	Share (%) of all supported operations that are implemented successfully, demonstrated by the achievement of planned objectives	0.00	
TA2	Percentage of satisfaction of supporting beneficiaries in the implementation and communication of their projects	66.00	
TA3	Amount of regular expenditure in sample for audit of operation	0.00	

**3.3 Table 3: Information on the milestones and targets defined in the performance framework**

Priority axis	Ind type	ID	Indicator	Measurement unit	Milestone for 2018 total	Final target (2023) total	2019	Observations
1	F	1.E	Total amount of eligible expenditure certified to EC for Priority Axis 1	EUR	27,778,878.00	191,207,223.00	28,619,126.00	15% of the final 2023 target value
1	I	1.A	Number of approved projects under Priority 1, focusing on the new or enhanced transnational clusters and innovation networks	Number of projects	5	9.00	30.00	AGRIWASTEVALUE, B4H, BioBase4SME, BSTART, IDEA, SHICC, UV-ROBOT, Codex4SMEs, VR4REHAB, COTEMACO, EYES, Machining 4.0, NWE MEA, NWE Chance, PASSION-HF, SuNSE, HappyMoo, OPIN, OIP4NWE, MATMED, MiteControl, IMAGINE, COBRACOMP, Water Test Network, OceanDEMO, CircTex, Certification-D, DigitalDeConstruction,THREE C, ValuSect,
1	I	1.B	Number of approved projects under Priority 1, focusing on enterprises receiving support	Number of projects	14	27.00	32.00	B4H, BE-GOOD, BioBase4SME, QCAP, eMEN, BONE, SHICC, UV-ROBOT, Codex4SMEs, COTEMACO, Machining 4.0, NWE MEA, NWE-Chance, PASSION-HF, SuNSE, UNEET, EYES, HappyMoo, OPIN, OIP4NWE, AGRIWASTEVALUE, MATMED, MiteControl, BSTART, COBRACOMP, Water Test Network, OceanDEMO, BioWILL, Certification-D, CircTex, IT4Anxiety, THREE C.
1	O	1.C	Number of new or enhanced transnational clusters or innovation networks	Number of networks/clusters	0	27.00	8.00	Total output indicator contributions for ongoing (not completed) operations: 8 (partially achieved output values).
1	O	1.D	Number of enterprises receiving support	Number of enterprises	0	540.00	562.00	Total output indicator contributions for ongoing (not completed) operations: 562 (partially achieved output values). The high value for this indicator is due to several projects focusing on generic business support and hence involving many companies through generic type of support provided than initially anticipated (nevertheless aligned with the definition for CO01 provided by the European Commission and applied by the Programme). The Programme initially estimated 20 companies supported per project approved, some projects however provide support to more than 20 enterprises, which leads to high output values and an overachievement.
2	F	2.E	Total amount of eligible expenditure certified to EC for Priority Axis 2	EUR	31,146,063.00	297,616,177.00	47,693,174.00	16% of the 2023 target value
2	I	2.A	Number of approved projects under Priority 2, leading to solutions facilitating the delivery of existing or emerging low carbon, energy or climate protection strategies	Number of projects	3	6.00	11.00	ACE-Retrofitting, CAN, E=0, HeatNet NWE, ECCO, cVPP, CConnects, Care-Peat, ENERGE, MUSTBE0, RegEnergy
2	I	2.B	Number of approved projects under Priority 2, leading to enterprises co-operating with research institutions	Number of projects	11	21.00	24.00	FORESEA, CleanMobilEnergy, GROOF, GenComm, H2Share, LOGiC, ST4W, UP STRAW, ITEG, PowerVIBES, river, FCCP, Green WIN, H4.0E, SMART-SPACE, CHIPS, H2SHIPS, HECTOR, eHUBS, RED WoLF, AFLOWT, D2Grids, DGE-ROLLOUT, Icare4Farms
2	O	2.C	Number of solutions facilitating the delivery of existing or emerging low carbon, energy or climate protection strategies	Number of solutions	0	18.00	13.00	Total output indicator contributions for ongoing (not completed) operations: 13 (partially achieved output values: CAN:7, E=0:5, ACE-Retrofitting:1)
2	O	2.D	No. of enterprises co-operating with research institutions	Number of enterprises	0	420.00	136.00	Total output indicator contributions for ongoing (not completed) operations in SO3: 55 (partially achieved output values). FORESESA:22, GenComm:10, PowerVIBES:18. In SO3 value 81, the achieved output values were reported by CHIPS (50) and ST4W(22), eHUBS (3), FCCP (2), HECTOR (3), river (1). In SO4, the value reflects the limited involvement of the transport sector companies and the fact that the low carbon solutions and transport management systems are, to a large extent, applied by projects up to demonstration level only (the Programme does not support commercialisation).Despite interest in the Programme, transport operators find the Programme rules too complex to get involved in projects.
3	F	3.C	Total amount of eligible	EUR	20,202,852.00	131,787,071.00	21,099,544.00	16% of the 2023 target value

Priority axis	Ind type	ID	Indicator	Measurement unit	Milestone for 2018 total	Final target (2023) total	2019	Observations
			expenditure certified to EC for Priority Axis 3					
3	I	3.A	Number of projects approved under Priority 3	Number of projects	10	20.00	22.00	AFTB, Fibersort, Food Heroes, SeRaMCo, SURICATES, ALG-AD, ReNu2Farm, WOW!, FCRBE, CHARM, CEDaCI, URBCON, Di-Plast, FABulous Farmers, NWE-REGENERATIS, Phos4You, RAWFILL, RE-DIRECT, REAMIT, SHAREPAIR, TRANSFORM-CE, Smart Circular Bridge
3	O	3.B	Number of enterprises receiving support	No. of enterprises	0	400.00	341.00	Total contributions for ongoing (not completed) operations: 341 (partially achieved output values for AFTB:24, Food Heroes 254, Phos4You 50, Fibersort 10, SeRaMCo:3). In the programming phase, NWE envisaged 20 enterprises per project, exceeded by a few projects. RAWFILL involves enterprises in studies and provides them with a tool applied by them (high outreach and effective application). ReNu2Farm provides expert guidance in product categorisation, enterprises receive training in demonstrations, recycling-fertilizer producers benefits from market strategies developed. Phos4You involves enterprises in the development and operation of phosphorus recovery from wastewater. SeRaMCo helps companies develop innovative concrete and cement mixes, involving them at various stages of the production process. Food Heroes allows proof of concept and has a high outreach, too.

Priority axis	Ind type	ID	Indicator	Measurement unit	2018	2017	2016	2015	2014
1	F	1.E	Total amount of eligible expenditure certified to EC for Priority Axis 1	EUR	20,844,689.69	2,971,794.72	0.00	0.00	0.00
1	I	1.A	Number of approved projects under Priority 1, focusing on the new or enhanced transnational clusters and innovation networks	Number of projects	21.00	7.00	2.00	0.00	0.00
1	I	1.B	Number of approved projects under Priority 1, focusing on enterprises receiving support	Number of projects	24.00	9.00	5.00	0.00	0.00
1	O	1.C	Number of new or enhanced transnational clusters or innovation networks	Number of networks/clusters	3.00	0.00	0.00	0.00	0.00
1	O	1.D	Number of enterprises receiving support	Number of enterprises	472.00	0.00	0.00	0.00	0.00
2	F	2.E	Total amount of eligible expenditure certified to EC for Priority Axis 2	EUR	27,235,690.00	4,309,713.47	0.00	0.00	0.00
2	I	2.A	Number of approved projects under Priority 2, leading to solutions facilitating the delivery of existing or emerging low carbon, energy or climate protection strategies	Number of projects	8.00	6.00	4.00	0.00	0.00
2	I	2.B	Number of approved projects under Priority 2, leading to enterprises co-operating with research institutions	Number of projects	19.00	12.00	2.00	0.00	0.00
2	O	2.C	Number of solutions facilitating the delivery of existing or emerging low carbon, energy or climate protection strategies	Number of solutions	4.00	0.00	0.00	0.00	0.00
2	O	2.D	No. of enterprises co-operating with research institutions	Number of enterprises	47.00	0.00	0.00	0.00	0.00
3	F	3.C	Total amount of eligible expenditure certified to EC for Priority Axis 3	EUR	17,372,085.50	553,152.37	0.00	0.00	0.00
3	I	3.A	Number of projects approved under Priority 3	Number of projects	15.00	9.00	3.00	0.00	0.00
3	O	3.B	Number of enterprises receiving support	No. of enterprises	262.00	0.00	0.00	0.00	0.00

### 3.4. Financial data

**Table 4: Financial information at priority axis and programme level**

As set out in Table 1 of Annex II to Commission Implementing Regulation (EU) No 1011/2014 (Model for transmission of financial data) and table 16 of model for cooperation programmes under the European territorial cooperation goal

Priority axis	Fund	Calculation basis	Total funding	Co-financing rate	Total eligible cost of operations selected for support	Proportion of the total allocation covered with selected operations	Public eligible cost of operations selected for support	Total eligible expenditure declared by beneficiaries to the managing authority	Proportion of the total allocation covered by eligible expenditure declared by beneficiaries	Number of operations selected
1	ERDF	Total	191,207,223.00	60.00	185,027,959.28	96.77%	149,935,222.93	33,769,501.71	17.66%	38
2	ERDF	Total	297,616,177.00	60.00	301,125,447.23	101.18%	229,136,185.60	55,967,594.87	18.81%	35
3	ERDF	Total	131,787,071.00	60.00	129,909,822.27	98.58%	112,182,557.77	26,005,146.24	19.73%	22
4	ERDF	Total	27,962,424.00	85.00	27,962,423.98	100.00%	27,962,423.98	12,507,119.58	44.73%	10
<b>Total</b>	<b>ERDF</b>		<b>648,572,895.00</b>	<b>61.08</b>	<b>644,025,652.76</b>	<b>99.30%</b>	<b>519,216,390.28</b>	<b>128,249,362.40</b>	<b>19.77%</b>	<b>105</b>
<b>Grand total</b>			<b>648,572,895.00</b>	<b>61.08</b>	<b>644,025,652.76</b>	<b>99.30%</b>	<b>519,216,390.28</b>	<b>128,249,362.40</b>	<b>19.77%</b>	<b>105</b>

**Where applicable, the use of any contribution from third countries participating in the cooperation programme should be provided (for example IPA and ENI, Norway, Switzerland)**

Swiss organisations may participate in the NWE projects but are not entitled to ERDF funding. They may receive funding from the Swiss federal government to co-finance their share in the project budget and, in some cases, may need to provide their own funding to cover their entire share of the project budget. The Swiss contribution to Technical Assistance equals 24,000 EUR for the course of the Programme duration. The entire amount was invoiced by the Programme and paid by Switzerland in December 2015. Since then, no additional funding has been received.



**Table 5: Breakdown of the cumulative financial data by category of intervention**

As set out in Table 2 of Annex II to Commission Implementing Regulation (EU) No 1011/2014 (Model for transmission of financial data) and tables 6-9 of Model for cooperation programmes

Priority axis	Fund	Intervention field	Form of finance	Territorial dimension	Territorial delivery mechanism	Thematic objective dimension	ESF secondary theme	Economic dimension	Location dimension	Total eligible cost of operations selected for support	Public eligible cost of operations selected for support	The total eligible expenditure declared by beneficiaries to the managing authority	Number of operations selected
1	ERDF	063	01	07	07	01		01	FR213	3,193,157.19	2,329,032.99	50,000.00	1
1	ERDF	063	01	07	07	01		07	DE737	5,616,950.00	4,585,190.00	0.00	1
1	ERDF	063	01	07	07	01		08	NL423	7,562,498.52	5,602,225.94	0.00	1
1	ERDF	063	01	07	07	01		11	UKM22	6,069,503.96	5,205,494.61	1,319,931.28	1
1	ERDF	063	01	07	07	01		13	NL423	4,991,202.10	4,274,027.39	50,000.00	1
1	ERDF	063	01	07	07	01		20	NL326	5,363,655.00	4,319,951.40	4,243,443.96	1
1	ERDF	063	01	07	07	01		20	NL412	4,396,546.27	3,832,086.03	2,637,054.70	1
1	ERDF	063	01	07	07	01		22	IE021	2,619,158.06	2,389,192.33	166,592.85	1
1	ERDF	063	01	07	07	01		22	UKM65	12,903,942.83	9,027,293.61	256,798.39	1
1	ERDF	064	01	07	07	01		01	BE213	2,306,435.62	1,746,951.45	620,619.31	1
1	ERDF	064	01	07	07	01		01	BE351	4,129,400.00	3,149,722.50	185,748.55	1
1	ERDF	064	01	07	07	01		03	BE213	3,466,786.44	3,316,083.99	0.00	1
1	ERDF	064	01	07	07	01		03	BE222	3,964,105.34	3,870,325.35	711,958.09	1
1	ERDF	064	01	07	07	01		03	NL226	3,143,632.27	2,646,058.97	1,951,054.36	1
1	ERDF	064	01	07	07	01		04	FR301	3,589,384.67	2,542,268.30	50,000.00	1
1	ERDF	064	01	07	07	01		04	NL310	3,999,750.06	2,711,108.54	0.00	1
1	ERDF	064	01	07	07	01		06	NL414	13,924,961.48	10,029,478.75	50,000.00	1
1	ERDF	064	01	07	07	01		07	BE213	4,981,632.00	4,020,427.34	1,679,043.88	1
1	ERDF	064	01	07	07	01		07	BE242	5,007,530.76	3,702,612.85	407,806.62	1
1	ERDF	064	01	07	07	01		07	NL333	4,740,676.12	3,146,568.67	3,037,381.85	1
1	ERDF	064	01	07	07	01		20	DE111	3,183,632.88	3,076,672.88	885,719.64	1
1	ERDF	064	01	07	07	01		20	NL211	3,346,302.30	2,299,366.23	263,219.84	1
1	ERDF	064	01	07	07	01		20	NL226	4,060,705.39	3,736,800.73	1,268,073.04	1
1	ERDF	064	01	07	07	01		20	NL423	3,406,300.77	2,825,487.34	951,140.58	1
1	ERDF	064	01	07	07	01		20	UKD31	3,028,587.41	2,475,376.52	262,992.09	1
1	ERDF	064	01	07	07	01		21	BE352	3,677,626.16	3,279,124.85	223,242.28	1
1	ERDF	064	01	07	07	01		24	BE234	5,825,753.92	5,172,251.64	3,178,462.70	1
1	ERDF	064	01	07	07	01		24	NL322	6,049,772.27	4,537,133.88	603,410.25	1
1	ERDF	065	01	07	07	01		01	IE022	3,730,834.52	3,196,813.77	0.00	1
1	ERDF	112	01	07	07	01		01	BE213	2,718,550.70	2,473,629.30	263,741.49	1
1	ERDF	112	01	07	07	01		20	BE352	6,285,161.34	5,214,909.92	0.00	1
1	ERDF	112	01	07	07	01		20	DEA14	3,714,096.49	2,909,531.45	0.00	1
1	ERDF	112	01	07	07	01		20	NL423	7,345,214.50	6,475,822.41	1,130,979.94	1
1	ERDF	112	01	07	07	01		21	DEASC	4,327,312.04	3,985,592.16	358,198.92	1
1	ERDF	112	01	07	07	01		21	FR106	5,927,217.53	4,396,483.67	1,296,106.74	1
1	ERDF	112	01	07	07	01		21	FR301	2,953,651.59	2,233,040.88	1,347,414.90	1
1	ERDF	112	01	07	07	01		21	UKM62	3,026,163.14	2,750,916.65	121,165.26	1
1	ERDF	112	01	07	07	01		24	NL332	6,450,167.64	6,450,167.64	4,198,200.20	1
2	ERDF	012	01	07	07	04		09	DEA14	18,747,123.46	16,189,013.14	50,000.00	1
2	ERDF	012	01	07	07	04		10	BE242	5,435,770.56	4,486,363.98	2,251,321.51	1
2	ERDF	012	01	07	07	04		10	DE712	11,080,463.88	8,807,842.20	483,815.75	1
2	ERDF	012	01	07	07	04		10	NL423	19,395,637.54	16,653,817.22	399,879.42	1
2	ERDF	012	01	07	07	04		11	UKG13	2,454,783.00	2,454,783.00	421,313.92	1
2	ERDF	012	01	07	07	04		12	UKN01	9,386,249.87	7,089,624.98	2,959,695.69	1
2	ERDF	012	01	07	07	04		22	FR513	3,367,482.43	2,466,225.04	0.00	1
2	ERDF	012	01	07	07	04		22	NL414	2,352,674.90	1,764,364.39	454,073.89	1
2	ERDF	012	01	07	07	04		22	UKM65	53,466,215.99	33,624,727.51	10,887,431.98	3
2	ERDF	012	01	07	07	04		24	NL322	4,209,961.35	3,399,339.35	509,151.34	1
2	ERDF	013	01	07	07	04		10	UKE42	6,111,893.40	4,732,521.96	50,000.00	1
2	ERDF	013	01	07	07	04		22	BE242	4,231,209.50	3,642,167.32	215,123.33	1
2	ERDF	013	01	07	07	04		22	BE255	5,783,016.65	5,320,383.52	283,756.91	1
2	ERDF	013	01	07	07	04		22	IE013	4,324,754.80	3,969,346.77	127,092.75	1

Priority axis	Fund	Intervention field	Form of finance	Territorial dimension	Territorial delivery mechanism	Thematic objective dimension	ESF secondary theme	Economic dimension	Location dimension	Total eligible cost of operations selected for support	Public eligible cost of operations selected for support	The total eligible expenditure declared by eneficiaries to the managing authority	Number of operations selected
2	ERDF	013	01	07	07	04		22	LU000	4,933,210.20	3,901,103.11	1,132,197.98	1
2	ERDF	013	01	07	07	04		22	NL326	34,635,493.14	16,486,103.05	341,538.65	1
2	ERDF	013	01	07	07	04		22	NL332	9,002,049.19	6,168,569.42	4,557,509.24	1
2	ERDF	013	01	07	07	04		22	NL414	6,105,342.53	5,078,905.73	2,542,483.95	1
2	ERDF	015	01	07	07	04		01	NL226	4,503,431.68	4,503,431.68	309,818.30	1
2	ERDF	015	01	07	07	04		10	IE021	11,573,185.92	10,378,806.35	5,081,016.95	1
2	ERDF	023	01	07	07	04		01	BE212	6,285,443.46	4,666,918.31	50,000.00	1
2	ERDF	023	01	07	07	04		08	FR246	6,392,600.00	5,724,904.79	1,501,025.40	1
2	ERDF	023	01	07	07	04		22	DE712	7,884,001.07	7,884,001.07	7,097,346.70	1
2	ERDF	023	01	07	07	04		22	FR431	4,242,691.25	3,694,743.59	2,207,516.38	1
2	ERDF	023	01	07	07	04		22	NL226	7,207,666.52	6,380,043.58	1,804,970.45	1
2	ERDF	043	01	07	07	07		05	BE213	3,517,561.40	1,911,361.16	2,191,113.10	1
2	ERDF	043	01	07	07	07		05	NL326	8,857,586.58	7,552,755.76	648,192.41	1
2	ERDF	043	01	07	07	07		11	BE100	9,281,959.10	8,621,466.26	99,559.18	1
2	ERDF	043	01	07	07	07		12	DE123	6,383,985.89	5,533,394.76	50,000.00	1
2	ERDF	043	01	07	07	07		12	FR301	3,248,640.29	2,629,020.59	1,512,953.74	1
2	ERDF	044	01	07	07	07		22	BE242	4,482,509.86	3,904,224.06	3,016,157.83	1
2	ERDF	065	01	07	07	07		24	DEA23	8,388,028.50	6,508,421.16	1,098,768.70	1
2	ERDF	087	01	07	07	07		12	BE323	3,852,823.32	3,007,490.79	1,632,769.42	1
3	ERDF	019	01	07	07	06		06	UK111	3,240,366.83	2,532,750.74	297,104.62	1
3	ERDF	019	01	07	07	06		08	BE100	4,375,434.12	3,629,725.17	419,324.90	1
3	ERDF	019	01	07	07	06		11	BE332	10,921,875.74	9,876,679.59	1,692,697.43	2
3	ERDF	019	01	07	07	06		11	DEA1A	4,249,668.60	3,556,894.91	50,000.00	1
3	ERDF	019	01	07	07	06		11	DECO1	3,763,468.23	3,101,683.49	793,410.76	1
3	ERDF	019	01	07	07	06		11	FR301	5,718,690.68	4,642,372.87	244,066.10	1
3	ERDF	019	01	07	07	06		14	UKH21	4,925,170.61	4,490,635.21	168,486.78	1
3	ERDF	069	01	07	07	06		01	BE242	6,581,901.62	5,400,470.17	50,000.00	1
3	ERDF	069	01	07	07	06		03	NL413	5,700,494.27	4,102,325.94	2,708,017.84	1
3	ERDF	069	01	07	07	06		04	NL326	3,381,994.18	1,984,676.71	1,556,456.14	1
3	ERDF	069	01	07	07	06		06	BE242	7,839,586.50	6,629,411.90	0.00	1
3	ERDF	069	01	07	07	06		07	UKD32	9,595,371.24	7,945,034.87	0.00	1
3	ERDF	069	01	07	07	06		08	BE234	5,202,446.54	4,958,100.54	142,235.50	1
3	ERDF	069	01	07	07	06		08	DEB32	7,276,838.96	6,487,386.15	2,277,572.44	1
3	ERDF	069	01	07	07	06		08	NL333	6,940,716.76	5,704,428.68	497,715.28	1
3	ERDF	069	01	07	07	06		08	NL414	6,807,466.40	5,902,559.62	0.00	1
3	ERDF	069	01	07	07	06		08	UKD72	4,806,211.72	4,806,211.72	3,093,000.83	1
3	ERDF	069	01	07	07	06		11	DEA52	11,103,994.44	10,789,997.03	4,659,153.84	1
3	ERDF	069	01	07	07	06		11	NL221	6,479,130.76	5,542,863.95	1,698,410.99	1
3	ERDF	069	01	07	07	06		11	UKL18	5,624,294.07	5,372,708.51	1,786,276.35	1
3	ERDF	069	01	07	07	06		22	DE731	5,374,700.00	4,725,640.00	3,871,216.44	1
4	ERDF	121	01	07	07			24	BE1	69,549.95	69,549.95	16,625.21	1
4	ERDF	121	01	07	07			24	BE2	372,085.87	372,085.87	186,080.22	1
4	ERDF	121	01	07	07			24	BE3	263,364.16	263,364.16	152,310.72	1
4	ERDF	121	01	07	07			24	DE	876,000.00	876,000.00	305,603.74	1
4	ERDF	121	01	07	07			24	FR	22,743,615.00	22,743,615.00	10,495,470.25	1
4	ERDF	121	01	07	07			24	FR3	800,000.00	800,000.00	165,014.84	1
4	ERDF	121	01	07	07			24	IE	335,000.00	335,000.00	171,929.04	1
4	ERDF	121	01	07	07			24	LU000	377,261.00	377,261.00	109,892.09	1
4	ERDF	121	01	07	07			24	NL	661,673.00	661,673.00	355,042.50	1
4	ERDF	121	01	07	07			24	UK	1,463,875.00	1,463,875.00	549,150.97	1

**Table 6: Cumulative cost of all or part of an operation implemented outside the Union part of the programme area**

<b>1. Operation (2)</b>	<b>2. The amount of ERDF support(1) envisaged to be used for all or part of an operation implemented outside the Union part of the programme area based on selected operations</b>	<b>3. Share of the total financial allocation to all or part of an operation located outside the Union part of the programme area (%) (column 2/total amount allocated to the support from the ERDF at programme level *100)</b>	<b>4. Eligible expenditure of ERDF support incurred in all or part of an operation implemented outside the Union part of the programme area declared by the beneficiary to the managing authority</b>	<b>5. Share of the total financial allocation to all or part of an operation located outside the Union part of the programme area (%) (column 4/total amount allocated to the support from the ERDF at programme level *100)</b>
ASPECT	177,207.46	0.04%	3,533.73	0.00%
COBRACOMP	491,521.00	0.12%	0.00	
Codex4SMEs	314,278.05	0.08%	0.00	
FCCP	162,177.96	0.04%	16,584.28	0.00%
FCRBE	39,000.00	0.01%	0.00	
GROOF	108,000.00	0.03%	1,387.26	0.00%
HECTOR	664,569.00	0.17%	0.00	
MUSTBE0	941,799.60	0.24%	0.00	
MiteControl	428,125.62	0.11%	0.00	
Phos4You	298,200.00	0.08%	1,185.47	0.00%
QCAP	151,949.53	0.04%	114,704.44	0.03%
REAMIT	180,480.00	0.05%	0.00	
UP STRAW	4,800.00	0.00%	0.00	
URBCON	1,459.20	0.00%	0.00	
Water Test Network	783,132.00	0.20%	0.00	
eMEN	207,150.00	0.05%	1,523.38	0.00%
river	13,200.00	0.00%	0.00	

(1) ERDF support is the Commission decision on the respective cooperation programme.

(2) In accordance with and subject to ceilings set out Article 20 of Regulation (EU) No 1299/2013.

#### 4. SYNTHESIS OF THE EVALUATIONS

Following the release of the implementation evaluation (reported in the AIR 2019), the Programme Evaluation Task Force prepared an action plan as a follow-up to the evaluation conclusions and recommendations.

The Task Force met on 5 February 2018 in Luxembourg and discussed the initial action plan with the recommendations analysed and attributed relevance level, with an explanation. The follow-up actions were proposed for the fully relevant or partially relevant recommendations, for the current NWE and future post 2020 programme.

It should be noted that some of the evaluation recommendations were redundant due to the fact that the evaluation focused on calls 1 to 4 only and many developments took place since then.

The chapters and consequently recommendations of the evaluation related to the:

- NWE contribution to territorial cohesion,
- Contribution to Europe 2020,
- Project results to the Programme results and result indicators
- Project outputs and output indicators
- Partnership relevance and suitability
- Project relevance, development and selection
- Efficiency of application process (two-step approach)

The evaluation recommendations were both content and process oriented. The action plan proposed some improvements for the VB Programme (e.g. project closure procedure) and post 2020 (both content and process oriented).

As much as the actions concerning the current programme were fairly easy to implement, the post 2020 ones required MC discussions and decisions as a starting point for the preparations of the future programme. They have been grouped in a couple of types of actions, as some of them are related to several evaluation recommendations.

**As far as the current NWE Programme is concerned (2014-2020 period), the action plan focused on:**

**a) Reinforcement of project monitoring**

On top of the regular six-monthly monitoring based on the progress reports received, the Secretariat has

put in place a project appraisal procedure.

The goal of the appraisal is to provide a more detailed report that focuses on the project effectiveness rather than its economy and efficiency. The appraisal is put in to check if the project can still bring the change planned in the AF in terms of results and long-term effects. Any additional benefits in NWE that were initially unintended are also subject of the project appraisal. Finally, the appraisal is also supposed to flag up any major project issues and propose recommendations to address them.

The appraisal is delivered either once or twice in the course of the project, depending on its duration. A final appraisal takes place at project closure (see below).

## **b) Adjustments to the final monitoring for project closure**

The project closure procedure was reviewed in the summer 2019. It consists of three stages:

- Final appraisal

A final appraisal takes place at project closure and aims to answer the question whether the NWE Programme "got what it paid for". It bridges the gap between project monitoring and Programme evaluation.

A preliminary questionnaire and the indicator templates for data collection are sent to the Lead Partner circa 6 months before the project end date.

The final appraisal report is shared with MC members once the project is considered as closed by the JS.

- Final progress report and final monitoring report

Besides the usual monitoring of the last 6 months, the output evidence needs to be provided by the project and checked by the Secretariat (alignment with the application form, avoidance of double counting, explanation on discrepancies compared to the target, etc.).

- Closure letter

The closure letter confirms that the project is closed and is entitled to receive its final payment. It also includes information about specific requirements (availability of documents after closure, revenue generation, durability, follow-up of the long-term effects).

### **c) Continued work with ESPON in order to develop the missing territorial indicators**

The Programme received a preliminary ESPON report of the TEVI project, with general guidance for ETC Programmes on Result Indicators. The document provides a general framework for programme preparation and guidance on indicators, as well as input to the discussions about the interface between the ESPON database and the KEEP.EU database. The report does not provide any specific NWE related indicators so far.

Furthermore, after the presentation delivered by ESPON at NTF1 on the Territorial Impact Assessment (TIA) method, the Programme Monitoring Committee decided that as soon as themes of the post 2020 NWE programme are known, a TIA should be carried out.

### **d) SO target groups to be further highlighted in capitalisation**

A call for capitalisation was launched in October 2019. Based on successful project results (foreseen or unforeseen), one of the 3 main directions that can be taken by capitalisation initiatives is related to new type of target group / type of stakeholders.

### **e) Analysis of the likely project contributions to the energy and CO2 emission related indicators – v. targets**

The Programme was recommended to consider a thorough analysis of the energy and CO2 emission indicators based on real project results rather than theoretic values provided at the moment of application (SO2 and SO3 projects specifically). A redefinition of targets and use of a single method to calculate project baselines and targets were also suggested.

- The targets for indicators relating to renewable energy or GHG emission reduction were difficult to set in the Programming phase. They were largely based on the type of investments and projects from the IVB period, which do not necessarily match the scope of the investments or energy sources/types applied in the VB period. The contributions of project investments to those indicators have been equally difficult to establish by the beneficiaries, despite the existing national and sector specific calculation formulas or methods.
- It was impossible for the Programme to provide a single calculation formula for renewable energy production or GHG emission indicators at the Programme outset, given the fact that the projects use a wide scope of energy sources and apply a varied scale of investments (both hard and soft) or demonstration/piloting.

- The JS realized that several projects had overestimated their contributions to those indicators due to incorrect measurement units used. JS requested that the project LPs correct these values in line with the measurement units imposed by the European Commission and consequently used by the Programme.
- All projects are requested to report on the real achieved values, rather than the theoretic estimates provided as contributions to the Programme indicators at the moment of application. If errors are spotted in the Step 2 submitted applications, they are corrected in the technical requirements phase or later in the course of project implementation.
- Nevertheless, the indicator CO34 “Estimated annual decrease of GHG” remains the most problematic indicator for the Programme. The project cumulative target highly exceeds the Programme target. The JS cannot really redefine the target value on the basis of the existing project pipeline as this is an approach, which is not recommended by the European Commission. For information, in case of SO2, the GHG emission reduction calculation is based on the PV installation on a roof of a house, which can bring up to 1 ton of CO2 reduction (450 houses x 1 tonne each = 450 tonnes). For SO4, the main emitter is the road transport. The Programme initially counted that 11 projects would be approved under this SO and that each project would trial 4 technologies. 500 tonnes was a rough estimate for the GHG emission reduction, which appeared possible when compared with SO2. The same value was attributed to this indicator under the SO3.

Name	Fund	From month	From year	To month	To year	Type of evaluation	Thematic objective	Topic	Findings
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## 5. ISSUES AFFECTING THE PERFORMANCE OF THE PROGRAMME AND MEASURES TAKEN

### (a) Issues which affect the performance of the programme and the measures taken

#### **1. Allocation of Programme funds and the increase of number of approved projects remained the main issue in 2019.**

In order to accelerate the selection process, the Programme completed calls 7 and 8 as well as the step 1 of call 9 and organized a capitalization call. As a result, the number of MC meetings in 2018 was high (4 meetings, with 3 all of them tackling approval at either step 1 or 2 of the project development process). In total, the 2019 MCs approved 25 projects at step 2, further increasing the existing pipeline under all three thematic priorities.

In addition, in order to accelerate the financial implementation of the Programme, the NWE authorities shifted a portion of the budget at the Programme level from Priority 1 and 3 to Priority 2, which was officially decided upon in February 2019 (MC15). Altogether, the Programme shifted MEUR 32 ERDF to Priority 2, using MEUR 16 ERDF from Priority 1 and MEUR 16 ERDF from Priority 3. This modification was officially submitted to and approved by the European Commission and enabled the allocation of ERDF to projects under Priority 2, and in particular SO4, for calls 7 and 8.

**2. Programme monitoring** was one of the default items of the 2019 Monitoring Committee agendas. In order to ensure that the Programme meets the 2018 milestones of the Performance Framework subject to review, an additional certification was carried in June 2019, to allow the achievement of the financial targets of the framework. It is also worth highlighting that thanks to the regular Programme monitoring and risk management, NWE performance review carried out by the European Commission resulted in a positive note, with the NWE declared a performing programme.

**3. Project implementation** was also extensively discussed by the Programme Monitoring Committee.

- Project modifications should remain exceptions, however, in reality they are often necessary to adjust the work plan and hence to maintain/increase the effectiveness and value for money of the project. The JS has an overview of all the modifications requested by the funded partnerships. In the case of time extensions (end-date extensions), the JS asks for a thorough justification and makes sure that the overall value for money of the project is (at least) maintained (if not increased). The complete overview of modifications is presented to the MC on a regular basis.
- By the end of 2019, the JS performed a complete analysis for 20 projects (ranging from call 1 to 4) carried out in the form of quality appraisals. These appraisals are additional to monitoring reports provided by the Programme in response to the project progress reports and payment claims. The breach the gap between the project monitoring and programme evaluation and touch upon aspects which are not always of importance in progress report processing. Based on the quality criteria and standards for an effective and well-managed project, this appraisal serves both the project (feedback to partners on performance and quality) and the programme (global performance). The Joint Secretariat also monitors project performance and quality based on the indicators set for the project's main outputs and results (see 2.3). Ongoing relevance to the Programme objectives and target groups is checked (strategic fit) as well as technical and operational feasibility (project approach). On the basis of the appraisal, the project Lead Partners receive implementation recommendations. The projects that had been subject to the quality appraisals by end 2019 were mainly Priority 1 and 2 projects from calls 1 and 2.

**4. The NWE project scorecard helps the Programme authorities assess the risk level of individual projects.**

It is based on the methodology approved by MC8, refers to all running projects approved and is regularly updated. Information included in the scorecard is based on the outcome of the project monitoring process (progress reports and quality appraisals - strategic and operational aspects, implementation performance and spending levels against targets), but also several elements of the project application forms (partnership and its structure, financial elements, State Aid and approach taken to it). The tools accompanied the MC in a decision to close the LOGiC project pre-maturely. In addition, it demonstrated that the UP-STRAW project was also high risk wise, owing to major investment and output delays, changes to the overall output quantity as well as the low level of TEC paid when compared to the targets. The status and financial situation of the project Lead Partner was at risk and a change of LP considered for the project to continue. The project survived thanks to a bank loan and strengthened efforts to deliver it. Two projects were considered as risk medium (ECCO and PowerVIBES). This was mainly due to the low level of TEC paid when compared to the targets, more structural risks like the high number of partners and private partners and the state aid relevant activities. PowerVIBES had also encountered major investment and output delivery delays. These projects are closely followed by the JS and the mitigation measures applied with the beneficiaries directly, to address the delays. The remaining projects were scored as risk low.

**5. Brexit** remained a major issue in 2019 and was addressed in three MC meetings in February, June and September 2019. As NWE territory includes the entire UK, its contribution to both content and budget of the NWE Programme is substantial (29% of the Programme area, 35% of the population, 35% of the ERDF allocation, 146 partners involved in 71 projects and 14 Lead Partners). The Brexit developments were closely followed, with analyses prepared by the JS and discussed by the MC, including the worst-case solution scenarios and contingency plans. The Brexit was eventually put off until 31 January 2020 and will hence be reported in the next AIR, covering 2020.

**(b) OPTIONAL FOR LIGHT REPORTS, otherwise it will be included in point 9.1. An assessment of whether progress made towards targets is sufficient to ensure their fulfilment, indicating any remedial actions taken or planned, where appropriate.**

The progress of the Programme is considered sufficient across all five Specific Objectives owing to a solid and effective project pipeline, highly relevant to the Programme intervention logic.

The objective of the SO1 of Priority 1 is to enhance innovation performance in NWE by boosting knowledge flows, SME innovation capabilities and social inclusion. All three challenges are linked to the SO result (increased SME innovation levels) and result indicator (degree of SME involvement in collaboration with other institutions). The private sector is the main target group, including social enterprises. It is a requirement for all projects funded under SO1 to contribute to the obligatory indicator CO01 (number of enterprises receiving support) or 1.01 (number of networks created or enhanced), demonstrating a direct contribution to the two challenges as well as the result and result indicator of the SO.

Priority 2 addresses energy security and supply and vulnerability to climate change developments, which are reflected in three SO, aiming to reduce GHG emissions:

- SO 2, implementing low carbon, energy or climate protection strategies, with the result ‘Increased capacity of public authorities (...) to implement low carbon measures effectively’ and the result indicator ‘Effectiveness of NWE public organisations to implement low-carbon strategies’. Public organisations are the main target group.
- SO 3, removing the barriers to adoption of and improved conditions for low carbon technology use. Status of conditions for low-carbon technology deployment in NWE is the result indicator and enterprises, including SMEs, are the main target group.
- SO 4, improving conception and coordination of low carbon transport and mobility solutions, measured with the ‘Status of competence of the transport sector in using low-carbon transport solutions’. Again, transport companies (service, logistic operators, etc.) are the target group.

Involvement of the key SO target groups, directly as project partners and indirectly as project end-users is essential. Similarly to the SO1, it is a requirement for all projects funded under SO3 and SO4 to contribute to the obligatory indicator CO26 (number of enterprises co-operating with research institutions) or 2.01 (number of solutions facilitating the delivery of existing or emerging low-carbon, energy or climate-protection strategies), demonstrating a direct contribution to the result and result indicator of the SO.

The objective of the Priority 3 SO5 is to optimise (re)use of material and natural resources. It addresses

resource and materials efficiency and is expected to result in the accelerated transition to a circular economy by enabling eco-innovation in the resource intensive industry. The result indicator measures the status of competences in the resource intensive sectors (the main target group). Their involvement is visible in all of the approved and running projects. The private sector is engaged both directly as project partners and indirectly as project end-users. It is also highlighted by the obligatory output indicator for all SO5 projects, which is the “number of enterprises receiving support”.

The implementation evaluation findings confirm the significant SME involvement (both direct and indirect, addressing their competitiveness and innovation), with roughly 27% of the project partners being enterprises including SMEs (17%) and driving implementation.

## **6. CITIZEN'S SUMMARY (ARTICLE 50(9) OF REGULATION (EU) NO 1303/2013)**

A citizen's summary of the contents of the annual and the final implementation reports shall be made public and uploaded as a separate file in the form of annex to the annual and the final implementation report

You can upload/find the Citizen's summary under General > Documents

**7. REPORT ON THE IMPLEMENTATION OF FINANCIAL INSTRUMENTS (ARTICLE 46 OF REGULATION (EU) No 1303/2013)**

## 8. PROGRESS IN PREPARATION AND IMPLEMENTATION OF MAJOR PROJECTS AND JOINT ACTION PLANS (ARTICLE 101(H) AND ARTICLE 111(3) OF REGULATION (EU) No 1303/2013 AND ARTICLE 14(3)(B) OF REGULATION (EU) No 1299/2013)

### 8.1. Major projects

**Table 7: Major projects**

Project	CCI	Status of MP	Total investments	Total eligible costs	Planned notification/submission date	Date of tacit agreement/ approval by Commission	Planned start of implementation	Planned completion date	Priority Axis/ Investment priorities	Current state of realisation — financial progress (% of expenditure certified to Commission compared to total eligible cost)	Current state of realisation — physical progress Main implementation stage of the project	Main outputs	Date of signature of first works contract (1)	Observations
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(1) In the case of operations implemented under PPP structures the signing of the PPP contract between the public body and the private sector body (Article 102(3) of Regulation (EU) No 1303/2013).

#### Significant problems encountered in implementing major projects and measures taken to overcome them

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#### Any change planned in the list of major projects in the cooperation programme

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## 8.2. Joint action plans

Progress in the implementation of different stages of joint action plans

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**Table 8: Joint action plans (JAP)**

Title of the JAP	CCI	Stage of implementation of JAP	Total eligible costs	Total public support	OP contribution to JAP	Priority axis	Type of JAP	[Planned] submission to the Commission	[Planned] start of implementation	[Planned] completion	Main outputs and results	Total eligible expenditure certified to the Commission	Observations
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**Significant problems encountered and measures taken to overcome them**

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**9. ASSESSMENT OF THE IMPLEMENTATION OF THE COOPERATION PROGRAMME (ARTICLE 50(4) OF REGULATION (EU) NO 1303/2013 AND ARTICLE 14(4) OF REGULATION (EU) NO 1299/2013)**

**9.1 Information in Part A and achieving the objectives of the programme (Article 50(4) of Regulation (EU) No 1303/2013)**

Priority axis	1 - INNOVATION
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Priority axis	2 - LOW CARBON
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Priority axis	3 - RESOURCE AND MATERIALS EFFICIENCY
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Priority axis	4 - TECHNICAL ASSISTANCE
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**9.2. Specific actions taken to promote equality between men and women and to promote non-discrimination, in particular accessibility for persons with disabilities, and the arrangements implemented to ensure the integration of the gender perspective in the cooperation programme and operations (Article 50(4) of Regulation (EU) No 1303/2013 and Article 14(4), subparagraph 2, (d) of Regulation (EU) No 1299/2013)**

An assessment of the implementation of specific actions to take into account the principles set out in Article 7 of Regulation (EU) No 1303/2013 on promotion of equality between men and women and non-discrimination, including, where relevant, depending on the content and objectives of the cooperation programme, an overview of specific actions taken to promote equality between men and women and to promote non-discrimination, including accessibility for persons with disabilities, and the arrangements implemented to ensure the integration of the gender perspective in the cooperation programme and operations

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**9.3.Sustainable development (Article 50(4) of Regulation (EU) No 1303/2013 and Article 14(4), subparagraph 2, (e) of Regulation (EU) No 1299/2013)**

An assessment of the implementation of actions to take into account the principles set out in Article 8 of Regulation (EU) No 1303/2013 on sustainable development, including, where relevant, depending on the content and objectives of the cooperation programme, an overview of the actions taken to promote sustainable development in accordance with that Article

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#### 9.4. Reporting on support used for climate change objectives (Article 50(4) of Regulation (EU) No 1303/2013)

Calculated amount of support to be used for climate change objectives based on the cumulative financial data by category of intervention in Table 7

<b>Priority axis</b>	<b>Amount of support to be used for climate change objectives (EUR)</b>	<b>Proportion of total allocation to the operational programme (%)</b>
1	2,238,500.72	1.95%
2	167,797,260.63	93.97%
3	22,251,635.22	28.14%
<b>Total</b>	<b>192,287,396.56</b>	<b>48.54%</b>

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**9.5 Role of partners in the implementation of the cooperation programme (Article 50(4) of Regulation (EU) No 1303/2013 and Article 14(4), subparagraph 1, (c) of Regulation (EU) No 1299/2013)**

Assessment of the implementation of actions to take into account the role of partners referred to in Article 5 of Regulation (EU) No 1303/2013, including involvement of the partners in the implementation, monitoring and evaluation of the cooperation programme

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**10. OBLIGATORY INFORMATION AND ASSESSMENT ACCORDING TO ARTICLE 14(4), SUBPARAGRAPH 1 (A) AND (B), OF REGULATION (EU) No 1299/2013**

**10.1 Progress in implementation of the evaluation plan and the follow-up given to the findings of evaluations**

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Status	Name	Fund	Year of finalizing evaluation	Type of evaluation	Thematic objective	Topic	Findings (in case of execution)	Follow up (in case of execution)
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**10.2 The results of the information and publicity measures of the Funds carried out under the communication strategy**

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**11. ADDITIONAL INFORMATION WHICH MAY BE ADDED DEPENDING ON THE CONTENT AND OBJECTIVES OF THE COOPERATION PROGRAMME (ARTICLE 14(4), SUBPARAGRAPH 2 (A), (B), (C) AND (F), OF REGULATION (EU) No 1299/2013)**

**11.1. Progress in the implementation of the integrated approach to territorial development, including integrated territorial investments, sustainable urban development, and community led local development under the cooperation programme**

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**11.2 Progress in implementation of actions to reinforce the capacity of authorities and beneficiaries to administer and to use the ERDF**

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### 11.3 Contribution to macro-regional and sea basin strategies (where appropriate)

As stipulated by the Regulation (EU) No 1299/2013, recital 19, article 8(3)(d) on the "Content, adoption and amendment of cooperation programmes" and article 14(4) 2nd subparagraph (c) "Implementation reports", this programme contributes to MRS(s) and/or SBS:

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- EU Strategy for the Baltic Sea Region (EUSBSR)
- EU Strategy for the Danube Region (EUSDR)
- EU Strategy for the Adriatic and Ionian Region (EUSAIR)
- EU Strategy for the Alpine Region (EUSALP)
- Atlantic Sea Basin Strategy (ATLSBS)

## **11.4 Progress in the implementation of actions in the field of social innovation**

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### **13. SMART, SUSTAINABLE AND INCLUSIVE GROWTH**

Information and assessment of the programme contribution to achieving the Union strategy for smart, sustainable and inclusive growth.

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**14. ISSUES AFFECTING THE PERFORMANCE OF THE PROGRAMME AND MEASURES TAKEN  
— PERFORMANCE FRAMEWORK (ARTICLE 50(2) OF REGULATION (EU) No 1303/2013)**

Where the assessment of progress made with regard to the milestones and targets set out in the performance framework demonstrates that certain milestones and targets have not been achieved, Member States should outline the underlying reasons for failure to achieve these milestones in the report of 2019 (for milestones) and in the final implementation report (for targets).

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## DOCUMENTS

Document title	Document type	Document date	Local reference	Commission reference	Files	Sent date	Sent By
Citizens' summary	Citizens' summary	11-May-2020		Ares(2020)2945785	Citizens' summary	08-Jun-2020	nguefore

## LATEST VALIDATION RESULTS

Severity	Code	Message
Info		Implementation report version has been validated
Warning	2.49.1	Annual value entered in table 1 exceeds the target value for priority axis: 4, investment priority: -, specific objective: SO6, indicator: TA3, year: 2018 (99.95 > 98.00). Please check.
Warning	2.49.1	Annual value entered in table 1 exceeds the target value for priority axis: 4, investment priority: -, specific objective: SO6, indicator: TA3, year: 2019 (99.90 > 98.00). Please check.
Warning	2.52.1	In table 2, the annual total value entered is 1,605.33% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: CO31, year: 2016. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 1,605.33% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: CO31, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 1,605.33% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: CO31, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 1,697.56% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: CO31, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 101.11% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO26, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 103.18% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: 3.02, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 103.18% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: 3.02, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 104.71% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2016. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 107.50% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO29, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 109.55% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: CO26, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 112.94% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 113.33% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: 2.02, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 114.55% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: CO26, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 115.00% of the total target value for "S", priority axis: 2, investment priority: 7c, indicator: 4.01, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 116.67% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO26, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 120.19% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO01, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 121.67% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: 1.07, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 127.27% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: 3.01, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 148.84% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: 1.05, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 150.12% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: 1.05, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 151.85% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: 1.01, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 153.24% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 173.81% of the total target value for "S", priority axis: 3, investment priority: 6f, indicator: 5.01, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 183.33% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: 2.01, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 183.82% of the total target value for "S", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 186.36% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: 3.01, year: 2018. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 19,114.62% of the total target value for "S", priority axis: 2, investment priority: 4e, indicator: CO34, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 190.91% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: 3.01, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 192.00% of the total target value for "S", priority axis: 3, investment priority: 6f, indicator: CO01, year: 2017. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 2,273.56% of the total target value for "S", priority axis: 2, investment priority: 4f, indicator: CO34, year: 2019. Please check.
Warning	2.52.1	In table 2, the annual total value entered is 202.38% of the total target value for "S", priority axis: 3, investment priority: 6f, indicator: 5.01, year: 2018. Please check.



Severity	Code	Message
Warning	2.53.1	In table 2, the annual total value entered is 1,607.92% of the total target value for "F", priority axis: 2, investment priority: 4e, indicator: CO34, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 102.27% of the total target value for "F", priority axis: 2, investment priority: 4f, indicator: 3.01, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 104.07% of the total target value for "F", priority axis: 1, investment priority: 1b, indicator: CO01, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 107.94% of the total target value for "F", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2018. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 131.00% of the total target value for "F", priority axis: 3, investment priority: 6f, indicator: CO01, year: 2018. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 136.76% of the total target value for "F", priority axis: 1, investment priority: 1b, indicator: CO28, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 150.00% of the total target value for "F", priority axis: 3, investment priority: 6f, indicator: 5.02, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 170.50% of the total target value for "F", priority axis: 3, investment priority: 6f, indicator: CO01, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 229.55% of the total target value for "F", priority axis: 2, investment priority: 4f, indicator: 3.03, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 247.49% of the total target value for "F", priority axis: 2, investment priority: 7c, indicator: 4.06, year: 2019. Please check.
Warning	2.53.1	In table 2, the annual total value entered is 466.82% of the total target value for "F", priority axis: 2, investment priority: 4f, indicator: 3.03, year: 2018. Please check.
Warning	2.54.1	In table 2, the annual total value entered for "F" (implemented) is 100.55% of the annual total value entered for "S" (forecast from selected) for priority axis: 2, investment priority: 7c, indicator: 4.06, year: 2018. Please check.
Warning	2.54.1	In table 2, the annual total value entered for "F" (implemented) is 132.29% of the annual total value entered for "S" (forecast from selected) for priority axis: 2, investment priority: 4e, indicator: 2.03, year: 2019. Please check.
Warning	2.54.1	In table 2, the annual total value entered for "F" (implemented) is 183.39% of the annual total value entered for "S" (forecast from selected) for priority axis: 2, investment priority: 4f, indicator: 3.03, year: 2018. Please check.
Warning	2.54.1	In table 2, the annual total value entered for "F" (implemented) is 204.24% of the annual total value entered for "S" (forecast from selected) for priority axis: 2, investment priority: 7c, indicator: CO34, year: 2019. Please check.
Warning	2.54.1	In table 2, the annual total value entered for "F" (implemented) is 335.01% of the annual total value entered for "S" (forecast from selected) for priority axis: 2, investment priority: 7c, indicator: 4.06, year: 2019. Please check.