

Nota bene: The following illustrates the list of indicators that the applicants will have to include, where appropriate, to estimate the project's contribution to the programme's objectives. Applicants should confine the choice of indicators in their operation to the list provided below and add exceptionally some other indicators that could be necessary under their operation.

Thematic priority 2: Protecting the environment and promoting climate change adaptation and mitigation, risk prevention and management

Specific objective (Outcome): 2.1 The cross- border territory is more environmentally sustainable and resilient

Result (Output): 2.1.2 Enhanced protection of the environment through pollution control and strengthened public services

Code	Description of indicators	Clarifications and additional information
	The indicators described in this column should be used in the logical framework matrices of project proposals or grant contracts, if relevant	This column contains a series of hints for clarification purposes only, that is, they are not intended for use in the logical framework matrices
	<p>Output indicators: short-term effects of implemented activities</p> <p>Outcome indicators: medium-term effects of implemented activities (at the level of specific objective of the project)</p> <p>Impact indicators: long-term effects of implemented activities (at the level of the overall objective of the project)</p>	<p>Common types of organisations are: local government units, regional or canton-level government units, entity-level government units, national government units (ministries, agencies, offices), non-governmental organisations (NGOs, CSOs, associations, particularly women's associations), business (particularly tour operators), regional development agencies, educational institutions, health institutions, cultural institutions, public institutions (particularly public enterprises), public utility companies, public services, national employment agencies, social welfare organisations, local employment offices, tourism organisations, local tourism organisations, regional tourism organisations, national tourism organisations, local communities, chambers of economy, management organisations of protected areas, national (nature) parks, research institutions, protection and rescue (emergency) services, other (please specify)</p> <p>Common vulnerable groups are: people with disabilities, youth, long-term unemployed, ethnic minorities, elderly people, people from rural areas, other (to be specified).</p> <p>Disaggregation by gender: it is necessary to do this kind of disaggregation in every group of participants, intermediary or final beneficiaries, e.g. people with disabilities: x men and y women, etc...</p>
	Output indicators	Clarification
21002	Number of organisations directly involved in the implementation of this type of projects (to be disaggregated by type of organisation)*	Includes all project partners that implement the project, stakeholders involved in project activities and organisations targeted by the project. Does not include those organisations from which individual participants come in events, organised by the project, unless they participated in the event in their capacity as official representative of the organisation.
21003	Number of inter-sectoral (local authorities-CSOs-private sector-public agencies-research and educational institutions) partnerships implementing this type of projects	One inter-sectoral partnership includes several organisations representing different types of sectors (private or public). Usually the type of partnership Local authority-NGO-etc. implementing the project is intersectoral partnership.
21004	No of awareness campaigns implemented	A campaign encompasses a series of activities (organisation of various events, media coverage, distribution of promotion materials) that are systematically organised in order to inform a general or particular audience about one or more topics, or to promote these topics. One project can implement more than 1 campaign, e.g. if several non-related topics are covered independently.
21005	Number of information/promotion events organised	Events organised within the promotion campaigns. This indicator is mandatory if the campaign includes the organisation of such events.
21006	Number of participants in information/promotion events (to be disaggregated gender)	Disaggregation by vulnerable group and gender is applicable only for events that a project is organising targeting vulnerable groups and most important where the participants were registered. For events in which the participation is open, this is not possible; in this case an estimation on the number of participants as well as on the share of men and women should be made.
21007	Number of copies of promotion materials produced and distributed/published/broadcasted (to be disaggregated by type of promotional material)	
21008	Number of people reached by information/promotion campaigns	Attention to the sources and means of verification. This is particularly important for campaigns using mass media (TV, radio) since the number of spectators or listeners is hard to measure.
21009	Number of capacity building events organised	This indicator is interrelated with the indicator 21010; if one indicator is selected, the other one needs to be selected too.
21010	Number of participants in capacity building events organised (to be disaggregated by gender). Special mention of participants in capacity building initiatives for public utility companies to introduce inter-municipal/regional solutions to waste management and wastewater treatment	This includes participants in all capacity building events organised, including internal capacity building that do not include primary target groups. The number should include project staff as well as trainers, facilitators and/or moderators.
21011	Number of training curricula/courses developed	
21011.01	No of joint training programmes/curricula developed	
21012	Number of studies developed (e.g. baseline, (pre)feasibility, research, etc.)	
21012.401	No of research studies developed	
21013	Number of digital platforms (information systems) developed	This indicator is interrelated with the indicator 21R02; if one indicator is selected, the other one needs to be selected too.
21014	Number of websites operational	
21015	Number of sets of equipment purchased and made available to target groups	What is a "set of equipment"? It may consist of one or several pieces of equipment that combined provide certain functionality. E.g. one fully functional computer (computer tower, monitor, keyboard and mouse); clothes and personal equipment for a street-sweeper (jacket, shirt, trousers, shoes, hat, broom, shovel...), machine for measuring level of pollution with all accompanying tools, parts and materials required, etc...
21016	Number of cross-border networks/partnerships formed*	Related to the networks/partnerships that are formed in addition to the formal partnership that had been made to apply for the grant in the first place. In principle, one CBC project can create 1 additional network/partnership. Only in exceptional cases, the number can be more than 1, but this would mean that these networks/partnerships have nothing in common, except for the CBC project under which they were formed.
21017	No of organisations involved in networks (to be disaggregated by type of organisation)*	This indicator is interrelated with the indicator 21016; if one indicator is selected, the other one needs to be selected too.
21018	Number of cross-border cooperation agreements signed	
21019	Number of plans developed (e.g. strategic, investments, business plans, etc)	This indicator is interrelated with the indicator 21R03; if one indicator is selected, the other one needs to be selected too.
21020	Number of people with increased capacity (to be disaggregated by gender)	Attention to the sources and means of verification. Not all the people that participate in capacity building events succeed to increase their capacities. The increase of capacities has to be verified, directly (testing before and after) or indirectly (improved performance related to the topic that was addressed by the capacity building).
21020.D6	No of young people with increased capacities in environmental issues (disaggregated by gender)	
21021	Number of new services developed	This indicator is interrelated with the indicator 21R04; if one of the indicators is applicable, the other one needs to be selected too.
21022	Number of facilities enhanced	

21023	Number of manuals, guidelines, handbooks developed	
21024	Number of study visits organised	This indicator is interrelated with the indicator 21025; if one indicator is selected, the other one needs to be selected too.
21025	Number of participants in study visits (to be disaggregated by gender)	Mandatory if the indicator 21024 is applicable.
21026	Number of improved waste management systems and value chains within the area	A value chain is improved when the efficiency and/or effectiveness of an environmentally sustainable process is increased at any of its phases: waste collection, transport, disposal and/or recycling.
21027	Surface area (in ha) covered by improved shared environmental monitoring capacity or common monitoring actions	
21028	No of people directly taking part in awareness raising activities (to be disaggregated by gender)	These people should already be included in the number under the indicator 21006 but the number is not always identical since there could be awareness-raising activities other than the events referred to under 21006.
21029	Number of NGOs participating in capacity building and networking activities in relation to environmental and nature protection	
21030	Percentage of the programme area covered by joint monitoring activities of NGO networks and local government in the cross-border area	This indicator is calculated using indicator 21051.
21031	No of organisations and companies taking part in awareness raising activities (to be disaggregated by type of organisation)	
21032	Number of systems for monitoring and exchange of monitoring data developed	
21033	Number of bio-diversity and geo-diversity maps developed	
21034	Number of pollution hot spots identified	
21035	Number of sensitive eco-systems addressed by actions designed to protect them	
21036	Number of site cleaning actions implemented	
21037	Number of endemic and endangered species whose populations have been assessed as result of programme activities	
21038	Number of upgraded facilities, equipment, procedures and operations of public utilities dealing with wastewater and solid waste disposal (to be disaggregated)	Disaggregation needs to be made by type of waste (wastewater or solid waste) and by subject of the upgrade (facilities, equipment, procedure or operation)
21040	Number of recycling yards in the territory of municipalities established	
21041	Number of municipalities benefiting from waste management and WWT solutions/measures supported by the programme	Includes municipalities on both sides of the border.
21042	Number of planned joint actions, innovative services, etc. for improving the wastewater and solid waste management within the area (to be disaggregated)	Disaggregation needs to be made by type of waste (wastewater or solid waste).
21043	Number of systems for solid waste, wastewater and sewage treatment enhanced (to be disaggregated)	Disaggregation needs to be made by type of system (wastewater, solid waste or sewage)
21044	Number of investments in waste management infrastructure made	
21045	Number of monitoring systems in waste management established	
21046	Number of joint pilot actions on targeted area	
21047	Number of policy papers developed	
21048	Number of databases developed	
21049	Number of MSMEs engaged in environmentally friendly economic activities	
21050	Number of joint strategies, plans and studies to protect, promote the environmental resources and biodiversity developed	
21051	Surface covered by joint monitoring activities of NGO networks and local government in the cross-border area (in km2)	This indicator is used to calculate the value of indicator 21030 and is mandatory if 21030 is selected.
21052	Number of practical demo/pilot solutions and measures contributing to climate change adaptation	
21053	Number of organisations in the programme area that became aware of sustainable use of resources (residues and waste)	
21054	Number of new investments applied	
21055	Number of integrated environmental monitoring systems installed and functional	
21056	Number of pilots tests for uptake of renewable energy and EE	
21057	No of agricultural products produced in accordance with sustainable agriculture	
21058	Number of joint environmental actions in schools implemented	
21059	Local population (number of inhabitants) in the area covered by the project	This indicator is used for calculating certain indicators that are expressed as percentages
21060	Number of targeted actions implemented for protecting biodiversity and soil	
21061	Number of people in the CBC area made aware of sustainable use of natural resources and environment in key sectors	Attention to the sources and means of verification: this number is not the same as the number of people targeted by the awareness raising campaigns. Sources of verification need to verify that these people's awareness on the use of natural resources and environment in key sectors has actually increased.
21062	Number of viewers of videos produced	Attention to the sources and means of verification, especially for traditional media (television).
21063	Population (number of people) of the programme area that has been target of environment awareness raising activities	
21064	Surface of the CBC programme area (km2) benefiting from better enforcement of solid waste disposal standards	
21065	Surface of the CBC programme area (km2) benefiting from better enforcement of environmental protection standards	

21O66	Surface of afforested locations (ha)	
21O69	Surface area covered by joint management measures (in ha)	
21O73	Number of pilot demonstration projects promoting higher environmental protection standards implemented	A "pilot demonstration project" has to be understood as an initiative which is part of project, or in other words a "project within a project". This may be due, for instance, the existence of financial support for third parties within a CBC project, or the direct assistance to target groups or project partners to undertake pilot actions as part of the CBC project's activities.
21O80	Number of people surveyed	
21O88	Number of participants in volunteering actions (to be disaggregated by gender)	
	<i>Outcome indicators</i>	
21R01	Number of organisations/institutions with increased capacities/competences (to be disaggregated by type of organisation)*	As with any other indicator related to increased capacities, one has to think about sources and means of verification: it is not sufficient that capacity building was provided for an organisation; there has to be a verification that their capacity has actually improved. There are two obvious methods of verification: a) testing the knowledge and skills of those benefiting from capacity building before and after the capacity building delivery OR b) assess the performance of the same target group after benefiting from capacity building.
21R01.113	Number of public services with increased capacities	
21R02	Number of users of digital platforms	This indicator is mandatory if digital platforms were developed (indicator 21O13)
21R03	Number of plans implemented or under implementation	This indicator is mandatory if plans were developed (indicator 21O19)
21R04	Number of new services commercialised	This indicator is mandatory if services are developed (indicator 21O21) and is interrelated with the indicator 21I04; if one of the indicators is selected, the other one needs to be selected too.
21R05	Level of satisfaction of users/clients with new services	The level of satisfaction needs to be measured using a standard scale. The recommended scale ranges from 1 to 5, where 1 is the lowest. A questionnaire for users/clients should consist of closed questions with the following choice of replies: 1 (very unsatisfied), 2 (rather unsatisfied), 3 (neither satisfied nor unsatisfied), 4 (rather satisfied), 5 (very satisfied).
21R06	Level of satisfaction of trainees with new training courses/curricula	It is strongly recommended to have this indicator if new training courses/curricula are developed. The level of satisfaction needs to be measured using a standard scale. The recommended scale ranges from 1 to 5, where 1 is the lowest. A questionnaire for users/clients should consist of closed questions with the following choice of replies: 1 (very unsatisfied), 2 (rather unsatisfied), 3 (neither satisfied nor unsatisfied), 4 (rather satisfied), 5 (very satisfied).
21R07	Number of new businesses established as a result of the operation (to be disaggregated by gender of the entrepreneur)*	Any business(es)/company(-ies) established, as a side-effect of environmental activities, by project target groups are to be counted here.
21R08	Increased level of competences among the trainees	The level of competences needs to be measured using a standard scale. The recommended scale is 1-5, where 1 is the lowest. A baseline needs to be established before commencing the capacity building. Trainees include all participants of capacity building events, regardless of the type of the event (training, workshop, seminar, etc.).
21R09	Percentage of increase in the amount of solid waste collected for recycling	Calculated based on indicator 21R48.
21R10	Number of participants, as percentage from the local population, in the organized publicity events	The percentage is calculated by dividing the number of participants in information/ promotion events organised (indicator 21O06) with the total population (number of inhabitants) in the area covered by the project (indicator 21O59)
21R11	Number of training curricula/courses recognized/certified	By a relevant authority in the country(ies) where the project is implemented. Attention to the means of verification. If this indicator is selected indicator 21O11 needs to be selected too.
21R12	Total surface area (ha) of rehabilitated land	
21R13	Additional population served by improved water supply and wastewater treatment, as well as solid waste collection (to be disaggregated)	Calculated based on baseline and target values of indicator 21R97 (population served by improved water supply and wastewater treatment, as well as solid waste collection)
21R14	Percentage (%) of population the in CBC area made aware of sustainable use of natural resources and environment in key sectors	The percentage is calculated by dividing the number of people in the CBC area made aware of sustainable use of natural resources and environment in key sectors (indicator 21O61) with the total population of the CBC programme are as defined in the programme document
21R15	Percentage of population of the Programme area reached by the awareness campaigns	Calculated based on indicator 21O08 below
21O08	<i>Number of people reached by information/promotion campaigns</i>	<i>Attention to the sources and means of verification. This is particularly important for campaigns using mass media (TV, radio) since the number of spectators or listeners is hard to measure.</i>
21R18	Number of innovative ways to present the monitoring results on environmental quality in place	
21R19	Area covered by joint management measures for environmental protection (ha)	
21R20	Number of cross-border areas with threatened biodiversity protected/benefited from the actions	
21R21	The control on the levels of pollution of air in urban, rural and industrial areas have become technically more accurate and regular	Attention to the sources and means of verification.
21R22	The control on the levels of pollution of water in urban, rural and industrial areas have become technically more accurate and regular	Attention to the sources and means of verification.
21R23	The control on the levels of pollution of soil in urban, rural and industrial areas have become technically more accurate and regular	Attention to the sources and means of verification.
21R24	Number of systems for exchange and collection of data on the quantities and composition of the waste generated operational	
21R25	Number of institutions included in joint management initiatives in relation to the environmental protection (to be disaggregated by type of the institution)	
21R26	Number of joint solutions for effective waste management and waste water treatment, implemented, in particular in rural areas and along main rivers	
21R27	Number of public enterprises dealing with municipal solid waste and wastewater which have upgraded their operations (to be disaggregated by type of activity - solid waste or wastewater)	
21R30	Percentage of the population covered and sensitized by the awareness raising campaign on the merits of complying with EU water supply, solid waste and wastewater management and environment protection	Attention to the sources and means of verification: this number is not the same as the number of people targeted by the awareness raising campaigns. Sources of verification need to verify that these people awareness on the merits of complying with EU water supply, solid waste and wastewater management and environment protection has increased, indeed.
21R31	Percentage of the population of the programme area has been target of environment awareness raising activities	The percentage is calculated by dividing the total population (number of people) of the programme area that has been target of environment awareness raising activities (indicator 21O63) with the total population of the CBC programme are as defined in the programme document

21R33	Percentage of reduction in the number of houses not connected to the existing sewage system	For this indicator, it is paramount that the baseline (number of houses in the area covered by the project that are not connected to the existing sewage system) is available before commencing project activities (indicator 21R49 below). If the baseline does not exist, a baseline study needs to be conducted at the very beginning of project implementation period to establish the baseline.
21R38	Number of site cleaning action plans completed	Site cleaning action plans referred to in this indicator are result of project activities. Implementation of such action plans is in the hands of an entity outside of the project partnership (e.g. project target group, such as local public utility company).
21R40	Percentage (%) of the population in the target area is aware and benefits of the project	Attention to the means and sources of verification. This percentage is calculated on the basis of the number of people that has been target of environment awareness raising activities (indicator 21O63) and population of the area covered by the project (indicator 21O59).
21R45	Percentage (%) of population of the area targeted by the project made aware of sustainable use of natural resources and environment in key sectors	Attention to the means and sources of verification. This percentage is different that the one from indicator 21R31 since the sources of verification need to verify that the awareness of these people has actually increased. The indicator is automatically calculated by dividing the Number of people in the CBC area made aware of sustainable use of natural resources and environment in key sectors (21O61) by the Local population (number of inhabitants) in the area covered by the project (21O59).
21R48	Quantity of solid waste collected for recycling (in tons)	It is assumed that the waste that is collected for recycling will be recycled eventually. This indicator is interrelated with the indicator 21R09 as it is used for calculating it; if one indicator is selected, the other one needs to be selected, too.
21R49	Number of houses not connected to the sewage system	This indicator is interrelated with the indicator 21R33 as it is used for calculating it; if one indicator is selected, the other one needs to be selected, too.
21R52	Quantity of waste disposed of (in tons)	This quantity should include all the waste disposed of, including the waste that is collected for recycling. It is used for calculating indicator 21I10 (percentage of waste collected for recycling).
21R54	Number of illegal dumps closed/removed	Only illegal dumps that were closed/removed under the project should be counted, unless the project is a continuation of a previous one (in this case the baseline would be the number of illegal dumps that were closed/removed under the preceding project). Sustainability of this activity should not be of a concern here; this indicator is related to the indicator 21I17 that addresses sustainability.
21R77	Number of local strategies and plans approved	
21R78	Percentage of area covered by joint management measures for environment protection	
21R79	Percentage of population in the target territories reached by the awareness raising campaign	The indicator is automatically calculated by dividing the Number of people reached by information/promotion campaigns (21O08) by the Population (number of people) of the programme area that has been target of environment awareness raising activities (21O63).
21R82	Number of organizations/institutions work on improving waste management in line with the recommendations (to be disaggregated by type of organisation)	
21R83	Number of locations with improved waste collection	
21R97	Population served by improved water supply and wastewater treatment, as well as solid waste management systems (to be disaggregated)	Baseline value is population served by the systems before the intervention. Target value is population that will be served after the intervention that aims to improve the system. The target value can be the same or higher than the baseline value.
	Impact indicators	
21I01	Number of direct beneficiaries involved (to be disaggregated by gender and type of vulnerable group)*	"Direct beneficiaries" are to be understood as target groups, or all people that are directly positively addressed by project activities. In practical terms, all participants that are directly involved in any of the project activities should be counted here, including the participants of all of the events organised.
21I02	Number of new jobs created (including self-employment initiatives) (to be disaggregated by gender)*	Number of people newly employed by the businesses/companies which were targeted by the project, or in newly established businesses/companies (counted under the indicator 21R07), during the project implementation period.
21I04	Number of new services available in the market one year after project ends	This refers to the services counted under the indicator 21R04 and is obligatory of the indicator 21R04 has been selected.
21I05	Percentage of reduction of water losses in the municipal supply networks	For this indicator, it is paramount that the baseline (current level of water losses) is available before commencing project activities. If the baseline does not exist, a baseline study needs to be conducted at the very beginning of project implementation period to establish the baseline.
21I07	Number of harmonised environmental education curricula and/or an extra-curricular programme introduced in elementary or secondary education on both sides of the border	
21I08	Number of municipalities having solved/agreed waste management issues through inter-municipal (regional) initiatives	
21I10	Percentage of waste collected for recycling	The percentage is calculated by dividing the amount of waste collected for recycling (indicator 21R48) with the total amount of waste disposed of (indicator 21R52).
21I11	Number of households benefiting from common waste management and wastewater treatment solutions/measures (to be disaggregated)	
21I14	Percentage of the programme area covered by strategies and action plans (disaggregated by solid waste, wastewater, soil erosion)	The surface covered by strategies and action plans divided by the total size of the programme area as provided in the programme document.
21I15	Number of platforms for furthering the merits of complying with EU water supply, solid waste and wastewater management and environment protection up and running beyond the programme actions	
21I17	Decrease in the number of illegal dumpsites	The baseline value needs to be established before commencing project activities. A decrease needs to be expressed in absolute numbers, which means that the target needs to be smaller than the baseline value.
21I19	Number of agreements/MoUs signed and entered in force at local and/or regional level on protecting the nature in the eligible area	
21I21	Number of new dwellings/households served in the collection of solid waste in the CBC area as a result of programme intervention	
21I23	Percentage of the programme area benefiting from better enforcement of water supply standards	The project needs to measure the surface of area benefiting from the better enforcement of standards and to calculate the percentage using the total size of the programme area as provided in the programme document.
21I24	Percentage of the programme area benefiting from better enforcement of wastewater standards	The project needs to measure the surface of area benefiting from the better enforcement of standards and to calculate the percentage using the total size of the programme area as provided in the programme document.
21I25	Percentage of the programme area benefiting from better enforcement of solid waste disposal standards	The project needs to measure the surface of area benefiting from the better enforcement of standards and to calculate the percentage using the total size of the programme area as provided in the programme document.
21I26	Percentage of the programme area benefiting from better enforcement of environmental protection standards	The project needs to measure the surface of area benefiting from the better enforcement of standards and to calculate the percentage using the total size of the programme area as provided in the programme document.
21I27	Percentage of population from the programme area benefiting from interventions to safeguard and manage environmental issues and contributing to its protection	
21I37	Number of recycling yards established by the action still active two years after completion of the action	This indicator is interrelated with 21O40. If one indicator is selected, the other one needs to be selected, too.
21I41	Percentage of municipalities implementing climate change adaptation solutions	Percentage is calculated compared to the number of municipalities in the CBC programme area.
21I42	Percentage of residues recycled in agriculture, forestry and wood industry	

* Programme indicators and/or IPA III strategic indicators, or general indicators. Must be contained in the logical framework matrix if they are relevant to the project.