



Annex no. 5 - Monitoring and Evaluation Indicator System

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Agri-food & wood industry					
				Specific Objective (SO)	Indicator	MU	2020	2029	Verification source
Horizontal priority 1: Developing skills for innovation									
Impact: • Number of beneficiaries of education and training programmes covered by RIS3 (persons)									
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus	SO1: Improving access to finance for all categories of farmers producing or using innovation.	*Output: Number of activated curricula partnerships (ISO1) *Result: Number of curricula developed in partnership (ISR1)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus						
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus						
Horizontal priority 2: Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region									
Impact: o Total number of active local units in the region (enterprises) o Number of employees in high-tech areas (persons)									
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027	SO1: Improving access to finance for all categories of farmers producing or using innovation.	*Output: Capacity created in business incubators (RCO15) (no. of supported enterprises) *Result: SMEs using incubating services annually after their creation (RCR18) (no. of enterprises)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO1: Improving access to finance for all categories of farmers producing or using innovation.	*Output 2.2.1 and 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 and 2.2.3: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (million Lei) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)				
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027	SO1: Improving access to finance for all categories of farmers producing or using innovation.	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (million Lei)				

Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027						
Horizontal priority 3: Developing the regional R&D capacity and promoting collaboration with the industry									
Impact: o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28 o Number of research jobs created at regional level									
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Encourage/promote the development of biodiversity and standardise indigenous products according to European standards SO3: Measures to certify agricultural and non-agricultural products and their quality in accordance with European standards	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102) *Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO1: Improving access to finance for all categories of farmers producing or using innovation. SO2: Encourage/promote the development of biodiversity and standardise indigenous products according to European standards SO3: Measures to certify agricultural and non-agricultural products and their quality in accordance with European standards	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)				
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027		*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)				
Horizontal priority 4: Supporting clustering and internationalisation initiatives									
Impact: o Total number of regional cluster members									
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO2: Encourage/promote the development of biodiversity and standardise indigenous products according to European standards SO3: Measures to certify agricultural and non-agricultural products and their quality in accordance with European standards	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizont Europa Interreg Europe Interreg Danube	SO3: Measures to certify agricultural and non-agricultural products and their quality in accordance with European standards	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08) (peer-reviewed scientific publications)				

Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters		*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				
Horizontal priority 5: Administrative capacity and technical assistance									
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)									
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027		*Output: Number of institutional participations in EDP (RCO16) (no. of entities) *Result: Number of solutions for smart development of EDP results (ISR4) (project proposals registered in the PDL)				*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform		*Output: Number of institutional participations in EDP (RCO16) (entities) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons)				*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	SO2: Encourage/promote the development of biodiversity and standardise indigenous products according to European standards	*Output 5.3.1: Number of institutional participations in EDP (RCO16) (entities) *Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) (enterprises) *Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) (persons) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) (number of new services / products developed) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)				

V: Promotion of regional products in North-East Region through marketing on all sales channels of local agricultural and non-agricultural products, at least 50%

	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Improving access to finance for all categories of farmers producing or using innovation.	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil.Lei) (IC1)	Number of active local entities (supported by RIS3 North-East) (IS1)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO2: Encourage/promote the development of biodiversity and standardise indigenous products according to European standards	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	Number of SMEs that have introduced processes or products innovation, through RIS3, as % of total SMEs, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %) (IS2)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
SO3: Measures to certify agricultural and non-agricultural products and their quality in accordance with European standards	Number of researchers (jobs created in RIS3 projects) per regional total (annual full time equivalent) (IC3)	Employment in medium-high-technology/high-technology industries and knowledge intensive services, achieved by RIS3, as a percentage of total employment, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %) (IS3)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Energy					
				SO	Indicator	MU	2020	2029	Verification source
Horizontal priority 1:									
Developing skills for innovation									
Impact:									
• Number of beneficiaries of education and training programmes covered by RIS3 (persons)									
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus	SO1: Expanding the level of education for sustainable energy at all levels through partnerships between education – the private environment (e.g. organising internships, study visits and extracurricular activities)	*Output: Number of activated curricula partnerships (ISO1) *Result: Number of curricula developed in partnership (ISR1)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus						
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus						
Horizontal priority 2:									
Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region									
Impact:									
o Total number of active local units in the region (enterprises)									
o Number of employees in high-tech areas (persons)									
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027						
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions). SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.	*Ouput 2.2.1 and 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 and 2.2.3: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (million Lei) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions).	*Ouput: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (million Lei)				

				SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.				
Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions). SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.	*Output: Investment volume for energy efficiency/renewable energy (ISO3) (million Lei) *Result: Number of energy efficiency/renewable energy solutions marketed through RIS3 projects (ISR6)			
Horizontal priority 3:								
Developing the regional R&D capacity and promoting collaboration with the industry								
Impact:								
o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28								
o Number of research jobs created at regional level								
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions). SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102) *Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions). SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)			
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions).	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			

			<p>SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.</p>				
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Horizontal priority 4: Supporting clustering and internationalisation initiatives									
Impact: o Total number of regional cluster members									
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions).	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
				SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.					
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizont Europa Interreg Europe Interreg Danube	SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions).	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08) (peer-reviewed scientific publications)				
				SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region.					
Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters						*EDP reports *PDL selection report
Horizontal priority 5: Administrative capacity and technical assistance									
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)									
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of institutional participations in EDP (RCO16) (numar entities) *Result: Number of solutions for smart development of EDP results (ISR4) (project proposals registered in the PDL)				*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) (entities) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons)				*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries

Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	✓	*Output 5.3.1: Number of institutional participations in EDP (RCO16) (entities) *Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) (enterprises) *Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) (persons) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) (number of new services /products developed) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)			
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	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Expanding the level of education for sustainable energy at all levels through partnerships between education – the private environment (e.g. organising internships, study visits and extracurricular activities)	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil.Lei) (IC1)	• Number of graduates from education and training programmes covered by RIS3 North-East (persoane) (IS4)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO2: Developing and implementing innovative solutions for energy efficiency (reducing energy consumption and minimising greenhouse gas emissions)	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	*Annual consumption of primary electricity after the investment has been carried out (MWh/an) (IS5)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO3: Development and implementation of energy production solutions at the place of consumption, by harnessing the potential of existing renewable energy resources in the region		* Energy production capacity developed (MWh) (IS6)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Environment					
				SO	Indicator	MU	2020	2029	Verification source
Horizontal priority 1:									
Developing skills for innovation									
Impact:									
• Number of beneficiaries of education and training programmes covered by RIS3 (persons)									
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus	SO1: Expanding the level of education for the environment at all levels through partnerships in the educational environment – the private environment for organising internships, study visits and extracurricular activities	*Output: Number of activated curricula partnerships (ISO1) *Result: Number of curricula developed in partnership (ISR1)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Expanding the level of education for the environment at all levels through partnerships in the educational environment – the private environment for organising internships, study visits and extracurricular activities	*Output: Number of participants in industry internships (ISO2) *Result: Number of pupils, students, master's students, PhD students, with increased industrial skills (ISR2)				
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus						
Horizontal priority 2:									
Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region									
Impact:									
o Total number of active local units in the region (enterprises)									
o Number of employees in high-tech areas (persons)									
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027						
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO3: Development of digitalisation solutions, warning and monitoring techniques available for general public SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output 2.2.1 si 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 si 2.2.3: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (million Lei) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: enterprises care ating un nivel ridicat de maturitate digitala (RCR13) *Output 2.2.2: enterprises care beneficiaza de sprijin pentru a-si digitaliza produsele si serviciile (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO3: Development of digitalisation solutions, warning and monitoring techniques available for general public	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) (mil.Lei)				

				SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions				
Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO3: Development of digitalisation solutions, warning and monitoring techniques available for general public	*Output: Investment volume for environment (ISO4) (million Lei) *Result: Number of environmental solutions marketed through RIS3 projects (ISR7)			
Horizontal priority 3: Developing the regional R&D capacity and promoting collaboration with the industry								
Impact: o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28 o Number of research jobs created at regional level								
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO3: Development of digitalisation solutions, warning and monitoring techniques available for general public SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102) *Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)			
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027	SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			
Horizontal priority 4: Supporting clustering and internationalisation initiatives								
Impact: o Total number of regional cluster members								
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizont Europa Interreg Europe Interreg Danube	SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08) (peer-reviewed scientific publications)			

Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters	SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				
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Horizontal priority 5: Administrative capacity and technical assistance								
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)								
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of institutional participations in EDP (RCO16) (no. of entities) *Result: Number of solutions for smart development of EDP results (ISR4) (project proposals registered in the PDL)			*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) (entities) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons)			*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	✓	*Output 5.3.1: Number of institutional participations in EDP (RCO16) (entities) *Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) (persons) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) (enterprises) *Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) (persons) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) (number of new services /products developed) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)			

	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Expanding the level of education for the environment at all levels through partnerships in the educational environment – the private environment for organising internships, study visits and extracurricular activities	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil.Lei) (IC1)	Number of graduates from education and training programmes covered by RIS3 North-East (persons) (IS4)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO2: Increasing investments in clean technologies and equipment and implementation of circular economy mechanisms in companies	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	Entities that have implemented environmental solutions through RIS3 North-East (IS7)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO3: Development of digitalisation solutions, warning and monitoring techniques available for general public		Number of digitised environmental solutions, warning and monitoring techniques marketed through RIS3 North-East (IS8)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO4: Increasing collaboration between the private sector and RDI organisations, in order to develop innovative solutions		Number of environmental solutions developed in collaboration through RIS3 (IS9)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Health					
				SO	Indicator	MU	2020	2029	Verification source
Horizontal priority 1: Developing skills for innovation									
Impact: • Number of beneficiaries of education and training programmes covered by RIS3 (persons)									
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus						*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Development of public-private partnerships – educational environment, for education and training programmes for prevention and early detection of diseases	*Output: Number of participants in industry internships (ISO2) *Result: Number of pupils, students, master's students, PhD students, with increased industrial skills (ISR2)				
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Development of public-private partnerships – educational environment, for education and training programmes for prevention and early detection of diseases	*Output: Number of teachers participating in activities dedicated to pedagogical skills development and technological information (IS05) *Result: Number of teachers with higher pedagogical and technological skills (ISR3)				
Horizontal priority 2: Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region									
Impact: o Total number of active local units in the region (enterprises) o Number of employees in high-tech areas (persons)									
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows	*Output: Capacity created in business incubators (RCO15) *Result: SMEs using incubating services annually after their creation (RCR18)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows	*Output 2.2.1 si 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 si 2.2.3: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)				

Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP2021-2027 SGDFIOP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02)			
				SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows				
Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	*Output: Public institutions supported to develop digital services and applications (RCO14) *Result: Users of public digital services and applications (RCR11)			
				SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows				
Horizontal priority 3:								
Developing the regional R&D capacity and promoting collaboration with the industry								
Impact:								
o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28								
o Number of research jobs created at regional level								
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
				SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows		*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)		
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)			
				SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows				
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			
				SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows				

Horizontal priority 4: Supporting clustering and internationalisation initiatives									
Impact: o Total number of regional cluster members									
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizon Europa Interreg Europe Interreg Danube	SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08)				
Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters						
Horizontal priority 5: Administrative capacity and technical assistance									
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)									
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of solutions for smart development of EDP results (ISR4)				*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5)				*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries

<p>Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process</p> <p>5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process</p> <p>5.3.2 One-stop-shop creation</p> <p>5.3.3 DIHs creation</p>	<p>Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects</p>	<p>Technical assistance and training providers who undertake the one-stop-shop development</p> <p>Delegated entity for DIH management</p>	<p>NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform</p>	<p>✓</p>	<p>*Output 5.3.1: Number of institutional participations in EDP (RCO16)</p> <p>*Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5)</p> <p>*Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101)</p> <p>*Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98)</p> <p>*Output 5.3.3: Digital services and products developed for enterprises (RCO13)</p> <p>*Result 5.3.3: Enterprises reaching high digital intensity (RCR13)</p>				
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	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Development of public-private partnerships – educational environment, for education and training programmes for prevention and early detection of diseases	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil.Lei) (IC1)	Number of graduates from education and training programmes covered by RIS3 North-East (persoane) (IS4)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO2: Increasing investment in medical and pharmaceutical innovation through the use of advanced, greener and more efficient technology lines	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	Employment in medium-high-technology/high-technology industries and knowledge intensive services, achieved by RIS3, as a percentage of total employment, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %) (IS3)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
SO3: Digitalisation (internal and external) of health institutions and the uniformisation of information flows		Number of digitalisation solutions in health marketed through RIS3 North-East (IS10)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Textiles				
				SO	Indicator	MU	2020	2029
Horizontal priority 1: Developing skills for innovation								
Impact: • Number of beneficiaries of education and training programmes covered by RIS3 (persons)								
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: Number of activated curricula partnerships (ISO1) *Result: Number of curricula developed in partnership (ISR1)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: Number of participants in industry internships (ISO2) *Result: Number of pupils, students, master's students, PhD students, with increased industrial skills (ISR2)			
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: Number of teachers participating in activities dedicated to pedagogical skills development and technological information (ISO5) *Result: Number of teachers with higher pedagogical and technological skills (ISR3)			
Horizontal priority 2: Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region								
Impact: o Total number of active local units in the region (enterprises) o Number of employees in high-tech areas (persons)								
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027					
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO2: Developing solutions to digitise links on the textile value chain (production, marketing & sales, promotion)	*Output 2.2.1 si 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 si 2.2.3: Private investments co-financing public funds (of which: grants, financial instruments) (RCR02) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027					
Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP 2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027					

Horizontal priority 3: Developing the regional R&D capacity and promoting collaboration with the industry								
Impact: o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28 o Number of research jobs created at regional level								
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
				SO3: Developing local, regional and international partnerships to identify and implement innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)			
				SO3: Developing local, regional and international partnerships to identify and implement innovative solutions				
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027	SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)			
				SO3: Developing local, regional and international partnerships to identify and implement innovative solutions				
Horizontal priority 4: Supporting clustering and internationalisation initiatives								
Impact: o Total number of regional cluster members								
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO3: Developing local, regional and international partnerships to identify and implement innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizont Europa Interreg Europe Interreg Danube	SO3: Developing local, regional and international partnerships to identify and implement innovative solutions	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08)			
Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters	SO3: Developing local, regional and international partnerships to identify and implement innovative solutions	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)			

Horizontal priority 5: Administrative capacity and technical assistance								
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)								
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of solutions for smart development of EDP results (ISR4)			*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5)			*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	✓	*Output 5.3.1: Number of institutional participations in EDP (RCO16) *Result 5.3.1 : Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) *Result 5.3.2 :SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)			

	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Enhancing collaboration between academia/research and industry/private environment (curricula, internships, technology transfer).		Number of graduates from education and training programmes covered by RIS3 North-East (persons) (IS4) Employment in medium-high-technology/high-technology industries and knowledge intensive services, achieved by RIS3, as a percentage of total employment, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %) (IS3)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
SO2: Developing solutions to digitise links on the textile value chain (production, marketing & sales, promotion)	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	Number of digitalisation solutions in textiles implemented through RIS3 North-East (IS11)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; Statisticci INSR
SO3: Developing local, regional and international partnerships to identify and implement innovative solutions		Number of innovations developed in partnership through RIS3 North-East (IS12)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	IT&C					
				SO	Indicator	MU	2020	2029	Verification source
Horizontal priority 1: Developing skills for innovation									
Impact: • Number of beneficiaries of education and training programmes covered by RIS3 (persons)									
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus	SO1: Increasing the degree of specialisation and the number of human resources.	*Output: Number of activated curricula partnerships (ISO1) *Result: Number of curricula developed in partnership (ISR1)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Increasing the degree of specialisation and the number of human resources.	*Output: Number of participants in industry internships (ISO2) *Result: Number of pupils, students, master's students, PhD students, with increased industrial skills (ISR2)				
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus	SO1: Increasing the degree of specialisation and the number of human resources.	*Output: Numar de cadre didactice care participa la activitati dedicate dezvoltarii aptitudinilor pedagogice si informarii tehnologice (ISO3) *Result: Number of teachers with higher pedagogical and technological skills (ISR3)				
Horizontal priority 2: Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region									
Impact: o Total number of active local units in the region (enterprises) o Number of employees in high-tech areas (persons)									
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027	SO2: Digitisation of companies and public administration and infrastructure development for Data and Cybersecurity SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	*Output: Capacity created in business incubators (RCO15) *Result: SMEs using incubating services annually after their creation (RCR18)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO2: Digitisation of companies and public administration and infrastructure development for Data and Cybersecurity SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	*Output 2.2.1 si 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 si 2.2.3: Investitii private care cofinanteaza fondurile publice (of which: grants, financial instruments) (RCR 02) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)				
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027						

Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027						
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Horizontal priority 3: Developing the regional R&D capacity and promoting collaboration with the industry									
Impact: o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28 o Number of research jobs created at regional level									
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102) *Ouput: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
				SO4: Developing partnerships between academia-research and the private sector/industry					
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)				
				SO4: Developing partnerships between academia-research and the private sector/industry					
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027	SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	*Ouput: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)				
				SO4: Developing partnerships between academia-research and the private sector/industry					
Horizontal priority 4: Supporting clustering and internationalisation initiatives									
Impact: o Total number of regional cluster members									
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO4: Developing partnerships between academia-research and the private sector/industry	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizont Europa Interreg Europe Interreg Danube	SO4: Developing partnerships between academia-research and the private sector/industry	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08)				
Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters						

Horizontal priority 5: Administrative capacity and technical assistance									
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)									
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of solutions for smart development of EDP results (ISR4)				*EDP reports *PDL selection report
Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5)				*EDP reports *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	✓	*Output 5.3.1: Number of institutional participations in EDP (RCO16) *Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) *Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)				

	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Increasing the degree of specialisation and the number of human resources.		Number of graduates from education and training programmes covered by RIS3 North-East (persons) (IS4)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO2: Digitisation of companies and public administration and infrastructure development for Data and Cybersecurity.	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total) (mil. Lei) (IC2)	Number of digitalisation solutions implemented through RIS3 North-East (IS13)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics
SO3: Development of innovative and competitive SMEs in the area, including through the creation of R & D departments and investment in technological infrastructure.	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil. Lei) (IC1)	Number of SMEs that have introduced processes or products innovation, through RIS3, as % of total SMEs, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %) (IS2)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
SO4: Developing partnerships between academia-research and the private sector/industry.		Number of innovations developed in partnership through RIS3 North-East (IS12)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; Regional beneficiaries; RNIS statistics

Priorities and Measures	Target Group	Eligible Beneficiaries	Funding Source	Tourism				
				SO	Indicator	MU	2020	2029
Horizontal priority 1: Developing skills for innovation								
Impact: • Number of beneficiaries of education and training programmes covered by RIS3 (persons)								
Measure 1.1: Partnerships for development/updating the educational curricula and synchronising the training offer with the current technology level in smart priority areas	Teachers from the regional public education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them, partnerships between them and companies in the fields of smart specialisation	Education and Employment Operational Programme (EEOP) 2021-2027 ERASMUS Plus					
Measure 1.2: Facilitating internships of pupils, students, master's and PhD students in industry and development of extracurricular activities dedicated to creativity and innovative attitude	Pupils, students, master's and PhD students and teachers from the regional education system, management staff of regional companies	Technology high schools, vocational and dual schools, universities, EITT, children's clubs or similar organisations, in partnership with companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus					
Measure 1.3: Developing pedagogical skills in regional pre-university and university education and acquaintance of teachers with new trends and technologies relevant to Smart domains	Teachers from secondary vocational and dual technical education, universities, management staff of regional companies	Technology high schools, vocational and dual schools, universities, partnerships between them and companies in the fields of smart specialisation	EEOP 2021-2027 ERASMUS Plus					
Horizontal priority 2: Supporting the creation of new innovative companies and the growth of active enterprises in the North-East Region								
Impact: o Total number of active local units in the region (enterprises) o Number of employees in high-tech areas (persons)								
Measure 2.1: Developing the capacity of the entrepreneurial innovation ecosystem to create, mature and internationalise start-up/spin-off in areas of smart specialisation	Entrepreneurs, intrapreneurs, corporate employees, pupils, students, masters and PhD students	Entities with the status of incubator/business accelerator, business center, industrial park	North-East Regional Operational Programme (NE ROP) 2021-2027 EEOP 2021-2027					
Measure 2.2: Support for technological and sustainable development of innovative companies: 2.2.1 Investments for technological development of SMEs 2.2.2 Investments for SMEs digitalisation 2.2.3 Investments for introduction of circular economy solutions in SMEs	Employees	SME	NE ROP 2021-2027 Smart Growth, Digitalization and Financial Instruments Operational Programme (SGDFIOP) 2021-2027 Sustainable Development Operational Programme 2021-2027	SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)	*Output 2.2.1 si 2.2.3: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result 2.2.1 si 2.2.3: Private investments cofinancing public funds (of which: grants, financial instruments) (RCR02) *Output 2.2.2: Enterprises supported to digitalise their products and services (RCO12) *Result 2.2.2: Enterprises reaching high digital intensity (RCR13)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 2.3: Support for the implementation of financial instruments by innovative SMEs	Entrepreneurs Corporate employees	Organisations with the status of financial intermediary Banks	NE ROP 2021-2027 SGDFIOP 2021-2027					
Measure 2.4: Smart solutions for local community development	Employees of local public authorities Citizens, companies, civil society	Local public authorities, Smart solutions providers	NE ROP 2021-2027 SGDFIOP 2021-2027 Health Operational Programme (HOP) 2021-2027	SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)	*Output: Public institutions supported to develop digital services and applications (RCO14) *Result: Users of public digital services and applications (RCR11)			*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries

Horizontal priority 3: Developing the regional R&D capacity and promoting collaboration with the industry									
Impact: o Innovation commercialisation (new for the market and new for the enterprise) reported as performance relative to the EU-28 o Number of research jobs created at regional level									
Measure 3.1: Strengthening regional research-innovation capacity in response to the needs identified in the EDP	Researchers, university teachers	Research organisations, innovation companies	POR 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)	*Output: Number of researchers (annual full time equivalent) working in supported RDI entities (RCO06) *Result: Research jobs created (annual full time equivalent) (RCR102) *Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Number of SMEs introducing product or process innovation (RCR03)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 3.2: Promoting the collaboration between RDI organisations and the business environment	Researchers, university teachers, corporate employees	Research organisations, companies, partnerships between them	NE ROP 2021-2027 SGDFIOP 2021-2027 HOP 2021-2027	SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)	*Output: SMEs cooperating with research entities (RCO10) *Result: Number of SMEs introducing product or process innovation (RCR03)				
Measure 3.3 Development of regional technology transfer capacity	Employees of SMEs, CDI organisations Research-development-innovation and technology transfer accredited entities	Research-development-innovation and technology transfer accredited entities SMEs	NE ROP 2021-2027 SGDFIOP 2021-2027						
Horizontal priority 4: Supporting clustering and internationalisation initiatives									
Impact: o Total number of regional cluster members									
Measure 4.1: Creation and strengthening of business networks and clusters	Companies from the Region Management entities and members of regional business networks and clusters	Clusters Management Entities and Business Networks Companies	NE ROP 2021-2027	SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages	*Output: Number of supported enterprises (of which: micro, small, medium, large) (RCO01) *Result: Enterprises with higher turnover (RCR19)				*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 4.2: Promoting interregional and international cooperation in the field of RDI	Member organisations of regional business networks and clusters	Member organisations of regional business networks and clusters Other regional business networks and clusters	NE ROP 2021-2027 SGDFIOP 2021-2027 Horizon Europa Interreg Europe Interreg Danube	SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)	*Output: Number of RDI entities participating in joint research projects (RCO07) *Result: Number of publications from supported projects (RCR08)				
Measure 4.3: Attracting foreign direct investments in Smart priority areas	Potential foreign investors	Local public authorities and companies North-East RDA	Own resources, projects promoters						
Horizontal priority 5: Administrative capacity and technical assistance									
Impact: o Number of projects in the RIS3 North-East portfolio promoted with non-reimbursable financial assistance (compared to the 2017-2020 portfolio)									
Measure 5.1: Development of North-East RIS3 implementation, monitoring and evaluation systems	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	North-East RDA	NE ROP 2021-2027	✓	*Output: Number of solutions for smart development of EDP results (RCO16) *Result: numar de solutii pentru dezvoltare smart Rezultate din EDP (ISR4)				*EDP reports *PDL selection report

Measure 5.2: Development of administrative capacity of actors involved in the development, implementation, monitoring, evaluation and review of the North-East RIS3	North-East RDA employees, members of the North-East Regional Innovation Consortium, members of the regional innovation ecosystem (representatives of the quadruple helix)	Technical assistance and training providers	NE ROP 2021-2027 Technical Assistance Operational Program (TAOP) 2021-2027 CE DG Reform	✓	*Output: Number of institutional participations in EDP (RCO16) *Result: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5)				*Rapoarte EDP *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries
Measure 5.3: Development of competencies at the level of entities involved in the entrepreneurial discovery process 5.3.1 Development of skills at the level of entities involved in the entrepreneurial discovery process 5.3.2 One-stop-shop creation 5.3.3 DIHs creation	Members of the regional innovation ecosystem (representatives of the quadruple helix) promoters of innovative projects	Technical assistance and training providers who undertake the one-stop-shop development Delegated entity for DIH management	NE ROP 2021-2027 TAOP 2021-2027 CE DG Reform	✓	*Output 5.3.1: Number of institutional participations in EDP (RCO16) *Result 5.3.1: Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship (ISR5) *Output 5.3.2: SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship (RCO101) *Result 5.3.2: SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship (RCR98) *Output 5.3.3: Digital services and products developed for enterprises (RCO13) *Result 5.3.3: Enterprises reaching high digital intensity (RCR13)				

V: North-East Region to become a more attractive/tendering region, more visible and accessible to tourists

	Context indicators (MU)	Specific indicators (MU)	Verification source of the indicator
SO1: Discovering and harnessing the potential of all geographical areas of the region, by developing innovative products and packages	Sector contribution to regional GVA (GVA growth due to RIS3 projects) (mil.Lei) (IC1)	Number of innovations developed in partnership through RIS3 North-East (IS12)	*Autoritati de Management ale programelor operationale, Secretariat Tehnic programe internationale si guvernamentale; Regional beneficiaries; RNIS statistics
SO2: Digitisation of the value chain in tourism (applications, marketing, promotion, etc.)		Number of digitalisation solutions in tourism implemented through RIS3 North-East (IS14)	*Autoritati de Management ale programelor operationale, Secretariat Tehnic programe internationale si guvernamentale; Regional beneficiaries; RNIS statistics

Indicator code	Indicator name	Indicator type	Measurement unit	Verification source
IC1	Sector contribution to regional GVA (GVA growth due to RIS3 projects)	Context	million (Lei)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *(Romanian National Institute of Statistics) RNIS statistics
IC2	RDI expenditure as % of GDP (investment volume of RIS3 projects per regional total)	Context	million (Lei)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics
IC3	Number of researchers (jobs created in RIS3 projects) per regional total	Context	jobs (annual full time equivalent)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics
IS1	Number of active local entities (supported by RIS3)	Specific	no. of entities	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics
IS10	Number of digitalisation solutions in health marketed through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS11	Number of digitalisation solutions in textiles implemented through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report

First sector in which it appeared



IS12	Number of innovations developed in partnership through RIS3 (IS12=ISR4)	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS13	Number of digitalisation solutions implemented through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS14	Number of digitalisation solutions in tourism implemented through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS2	Number of SMEs that have introduced processes or products innovation through RIS3, as % of total SMEs, at regional level (reported as performance relative to the EU-28, with a reference value of 100 %)	Specific	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
IS3	Employment in medium-high-technology/high-technology industries and knowledge intensive services, achieved by RIS3, as a percentage of total employment, at regional level	Specific	jobs (reported as performance relative to the EU-28, with a reference value of 100 %)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *RNIS statistics *EUROSTAT
IS4	Number of graduates from education and training programmes covered by RIS3	Specific	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
IS5	Annual primary electricity consumption after the investment through RIS3 related projects	Specific	MWh/year	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report

IS6	Energy production capacity developed through RIS3 projects	Specific	MWh	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS7	Entities that have implemented environmental solutions through RIS3	Specific	no. of entities	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
IS8	Number of digitised environmental solutions, warning and monitoring techniques marketed through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
IS9	Number of environmental solutions developed in collaboration through RIS3	Specific	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
ISO1	Number of activated curricula partnerships	Output	no. of partnerships	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISO2	Number of participants in industry internships	Output	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISO3	Investment volume for energy efficiency/renewable energy	Output	million (Lei)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)

ISO4	Investment volume for environment	Output	million (Lei)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISO5	Number of teachers participating in activities dedicated to pedagogical skills development and technological information	Output	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISR1	Number of curricula developed in partnership	Result	no. of curricula	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISR2	Number of pupils, students, master's students, PhD students, with increased industrial skills	Result	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISR3	Number of teachers with higher pedagogical and technological skills	Result	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes *Regional beneficiaries *Regional evaluation study (specific indicators)
ISR4	Number of solutions for smart development of EDP results	Result	no. of project proposals (registered in PDL)	*EDP reports; *PDL selection report
ISR5	Number of SME/ RDI organisations/ ITT entities employees completing training for smart specialisation, industrial transition and entrepreneurship	Result	no. of persons	*EDP reports; *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries

ISR6	Number of energy efficiency/renewable energy solutions marketed (through RIS3 projects)	Result	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
ISR7	Number of environmental solutions marketed (through RIS3 projects)	Result	no. of projects (registered in PDL)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries *PDL selection report
RCO01	Enterprises supported (of which: micro, small, medium, large)	Output	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO06	Number of researchers (annual full time equivalent) working in supported RDI entities	Output	jobs (annual full time equivalent)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO07	RDI entities participating in joint research projects	Output	no. of RDI entities	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO10	SMEs cooperating with research entities	Output	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO101	SMEs investing in skills for smart specialisation, industrial transition and entrepreneurship	Output	no. of enterprises	*EDP reports; *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO12	Enterprises supported to digitalise their products and services	Output	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries

RCO13	Digital services and products developed for enterprises	Output	no. of newly developed products/services	*EDP reports; *Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO14	Public institutions supported to develop digital services and applications	Output	no. of public institutions	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO15	Capacity created in business incubators	Output	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCO16	Number of institutional participations in EDP	Output	no. of entities	*EDP reports; *PDL selection report
RCR02	Private investments co-financing public funds (of which: grants, financial instruments)	Result	million (Lei)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR03	Number of SMEs introducing product or process innovation	Result	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR08	Number of publications from supported projects	Result	no. of publications (peer-reviewed)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR102	Research jobs created	Result	jobs (annual full time equivalent)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR11	Users of public digital services and applications	Result	no. of persons (unique users)	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries

RCR13	Enterprises reaching high digital intensity	Result	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR18	SMEs using incubating services annually after their creation	Result	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR19	Enterprises with higher turnover	Result	no. of enterprises	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries
RCR98	SMEs staff completing training for smart specialisation, industrial transition and entrepreneurship	Result	no. of persons	*Managing Authorities of operational programmes, Technical secretariat for international and governmental programmes; *Regional beneficiaries