

ENVIRONMENTAL INDICATORS

PRIORITY AXIS 1 «STRENGTHENING COMPETITIVENESS AND INNOVATION»					
Nr	Indicator	Measurement	Type of Indicator	Comments	ID Nr.
POPULATION – QUALITY OF LIFE – HUMAN HEALTH					
1.1	Number of research projects and / or relative actions that contribute to the improvement of the quality of Life and have an environmental added value	Number	Output	Codes for the Priority Theme Dimension: 3,6	1
WATER					
1.2	Impact on the water quality	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 6	2
AIR					
1.3	Changes in the quality of atmosphere	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 6	3
CLIMATIC FACTORS – ENERGY					
1.4	Contribution in energy saving and RES promotion	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 3,6	4

PRIORITY AXIS 2 « IMPROVE ACCESSIBILITY TO SUSTAINABLE NETWORKS AND SERVICES »					
Nr	Indicator	Measurement	Type of Indicator	Comments	ID Nr.
POPULATION – QUALITY OF LIFE – HUMAN HEALTH					
2.1	Changes in the levels of noise	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 28	5
2.2	Interventions concerning infrastructures, transport systems, transport and information networks management	Number	Result	Codes for the Priority Theme Dimension: 12, 28	6
WATER					
2.3	Impact on the quality of seawater	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 12,28	7
AIR					
2.4	Changes in the quality of atmosphere	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 12, 28	3
LANDSCAPE – URBAN ENVIRONMENT					
2.5	Number of projects ensuring sustainability and improving the attractiveness of towns and cities	Number	Output	Codes for the Priority Theme Dimension: 12,28	8
CULTURAL HERITAGE					
2.6	Changes in visits frequency in cultural heritage areas	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 12	9

PRIORITY AXIS 3 « IMPROVING THE QUALITY OF LIFE, PROTECTION OF THE ENVIRONMENT AND ENHANCEMENT OF SOCIAL AND CULTURAL COHESION »					
Nr	Indicator	Measurement	Type of Indicator	Comments	ID Nr.
POPULATION – QUALITY OF LIFE – HUMAN HEALTH					
3.1	Number of research projects and / or relative actions that contribute to the improvement of the quality of Life and have an environmental added value	Number	Output	Codes for the Priority Theme Dimension: 54	1
3.2	Changes in the levels of noise	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 54, 55, 56, 57, 58, 60	5
3.3	Number of projects on risk prevention	Number	Output	Codes for the Priority Theme Dimension: 54	10
WATER					
3.4	Impact on the water quality	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 45, 48, 54, 55	2
AIR					
3.5	Changes in the quality of atmosphere	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 48	3
BIODIVERSITY – FAUNA-FLORA					
3.6	Interventions for the protection of Natura Areas	Number	Output	Codes for the Priority Theme Dimension: 51, 54	11

SOIL - LAND USE					
3.7	Number of projects concerning solid waste management	Number	Output	Codes for the Priority Theme Dimension: 44	12
CLIMATIC FACTORS - ENERGY					
3.8	Contribution in energy saving and RES promotion	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 54	4
CULTURAL HERITAGE					
3.9	Changes in visits frequency in cultural heritage areas	Positive/Negative/Neutral	Impact	Codes for the Priority Theme Dimension: 57, 58, 60	9

Identity No.	1	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component (factor):		POPULATION - QUALITY OF LIFE - HUMAN HEALTH
Environmental Indicator:		NUMBER OF RESEARCH PROJECTS AND / OR RELATIVE ACTIONS THAT CONTRIBUTE TO THE IMPROVEMENT OF THE QUALITY OF LIFE AND HAVE AN ENVIRONMENTAL ADDED VALUE
Definition and feasibility of indicator		<p>The indicator measures the number of actions which concern research, technological development, Innovation and eco-innovation, and contribute to the protection of the environment, the preservation of the natural resources, the improvement of the quality of life and in general the sustainable development.</p> <p>Indicative interventions are: studies for urban environment reformation, creation of tools for environmental monitoring etc.</p> <p>The indicator is in line with the overall objective 5 of NSRF "Enhancement of research and technology, and promotion of innovation to all sectors as a basic factor for the reconstruction of Greek Economy and the transition to the knowledge-based economy."</p>
Type of Indicator		Output
Source data		Lead Partner, Managing Authority and other relevant body
Unit of Measurement		Number
Completion of Indicator		The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.
Calculating Method of indicator in the Operational Programme		The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.
Code of Priority Theme		3,6,54

Identity No.	2	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		WATER
Environmental Indicator:		IMPACT ON THE WATER QUALITY
Definition and feasibility of indicator	<p>This indicator measures the impact on the water quality, as a result of the interventions of the Operational Programme.</p> <p>The use of the indicator facilitates the monitoring of the achievement of the overall objective 15 of the NSRF "the sustainable management of the environment" and, more specifically, "the management of water resources and the protection of the marine environment", which focuses, among others, on the achievement and preservation of the good condition of all water systems, on the containment of the degradation of surface, underground and marine water systems. Moreover, the indicator reflects the effort of the country to comply to Guideline 2000/60 for the achievement of the good condition of surface and underground water and the cross border cooperation for the joint management of the cross border water basin and the application of the international contracts orders, which concern the protection of the marine environment.</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	<p>The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.</p>	
Calculating Method of indicator in the Operational Programme	<p>The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.</p>	
Code of Priority Theme	6, 45, 48, 54, 55	

Identity No.	3	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		AIR
Environmental Indicator:		CHANGES IN THE QUALITY OF ATMOSPHERE
Definition and feasibility of indicator	<p>The indicator measures the effect of all interventions to improve air quality during the programming period 2007-2013.</p> <p>The ambient environment can be improved either directly through projects (eg clean urban transport, etc.) or indirectly by preparing the studies and supporting tools necessary for the proper implementation of legislation and strengthening the resources required for monitoring and recording of quality of atmosphere (eg air quality monitoring stations, etc.).</p> <p>The indicator is designed to monitor the protection of air quality from degradation caused by gas emissions, which is consistent with the overall objective 15 of the NSRF: "Sustainable management of the environment" and in particular "to ensure and maintain the quality of air and the acoustic environment", according to what is provided in community and national texts (NSRF, NRP, Treaty of Lisbon, 6th Environment Action of the EU, decision 358/2002/EK and National Action Plan Text EU Council - Brussels, June 9, 2006, 10117/2006 TARGETS OF EUROPEAN STRATEGY FOR SUSTAINABLE DEVELOPMENT)</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	6, 12, 28, 48	

Identity No.	4	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		CLIMATIC FACTORS – ENERGY
Environmental Indicator:		CONTRIBUTION IN ENERGY SAVING AND RES PROMOTION
Definition and feasibility of indicator	<p>The indicator measures the impact of the Operational Programme in the saving of primary energy, through interventions of energy efficiency in the domestic sector, public buildings and industry that lead to the decrease of energy consumption and to projects of renewable sources of energy, which are going to be implemented until the end of the current programming period.</p> <p>With the use of the indicator, the contribution of the Operational Programme is estimated in the saving of primary energy from the insertion of the renewable sources of energy in the energy balance of the country and from the application of measures for the decrease of energy consumption, which is a National Target, according to what is foreseen in the community and national texts (NSRF, National reform Programme, Lisbon Treaty, 6th action plan for the environment of the EU).</p> <p><i>Other definitions:</i></p> <p><i>Renewable energy:</i> The energy that is produced by excluding the energy from fossil fuels or nuclear energy, using as main source one or a combination of more than one of the following: (a) wind, (b) sun, (c) wave, (d) tide, (e) water power, (f) biomass, (g) geothermal (h) biogas (from landfills, etc). (European Environment Agency, working document 7)</p> <p><i>Primary energy</i> is integrated in the natural resources (i.e. coal, crude oil, uranium) that has not been subjected to any anthropogenic conversion or transformation (European Environment Agency - Intergovernmental Panel on Climate Change). Primary energy comes directly from the sun (solar energy) or the earth (fossil fuels). (Aristotle University of Thessaloniki, Department of Chemical engineering)</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	3, 6, 54	

Identity No.	5	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		POPULATION – QUALITY OF LIFE – HUMAN HEALTH
Environmental Indicator:		CHANGES IN THE LEVELS OF NOISE
Definition and feasibility of indicator	<p>The indicator measures the changes in the levels of noise in the intervention areas. The noise is calculated in order to reduce to minimum the risks caused by exposure to noise.</p> <p>The indicator monitors the impact of each OP on changes in the levels of noise, as well as the implementation of guidelines 86/594/EU, 86/188/EU, 2003/10/EU, 2002/49/EU.</p> <p>The indicator is consistent with the overall objective 15 of the NSRF: "Sustainable management of the environment" and in particular "to ensure and maintain the quality of air and the acoustic environment". Moreover, the reduce of noise is one the objectives of the 6th action plan for the environment.</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	28, 54, 55, 56, 57, 58, 60	

Identity No.	6	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		POPULATION – QUALITY OF LIFE – HUMAN HEALTH
Environmental Indicator:		INTERVENTIONS CONCERNING INFRASTRUCTURES, TRANSPORT SYSTEMS, TRANSPORT AND INFORMATION NETWORKS MANAGEMENT
Definition and feasibility of indicator		The indicator measures the number of interventions concerning infrastructures, transport systems and information networks management: <ul style="list-style-type: none"> - Number of actions promoted for the development / improvement of smart transport systems in the programme area - Joint strategies and interventions developed in the fields of local, inter-modal and cross board transport systems
Type of Indicator		Result
Source data		Lead Partner, Managing Authority and other relevant body
Unit of Measurement		Number
Completion of Indicator		The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.
Calculating Method of indicator in the Operational Programme		The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.
Code of Priority Theme		12, 28

Identity No.	7	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		WATER
Environmental Indicator:		IMPACT ON THE QUALITY OF SEAWATER
Definition and feasibility of indicator	<p>The indicator measures the changes in the quality of seawater as result of implementation, improvement and modernization of seaports.</p> <p>The indicator is consistent with the overall objective 15 of the NSRF: "Sustainable management of the environment" and in particular "the management of water resources and the protection of the marine environment", which focuses, among others, on the achievement and preservation of the good condition of all water systems, on the containment of the degradation of surface, underground and marine water systems. Moreover the indicator reflects the state effort to implement the national legislation about the protection of marine water systems.</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	12, 28	

Identity No.	8	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		LANDSCAPE – URBAN ENVIRONMENT
Environmental Indicator:		NUMBER OF PROJECTS ENSURING SUSTAINABILITY AND IMPROVING THE ATTRACTIVENESS OF TOWNS AND CITIES
Definition and feasibility of indicator	<p>The indicator measures the impact of the implemented interventions regarding restructuring projects, restoration of buildings, green areas etc.</p> <p>The indicator concerns projects that are included in Code 61 and projects of urban interventions including those that will be implemented in the frame of JESSICA financing tool.</p> <p>The indicator targets the monitoring of the contribution of the O.P. to the securing of the sustainability and attractiveness of cities through projects that will implemented in the country during the programming period 2007-2013. It is in line with the Spatial Priority of the Development Strategy of NRSF "Sustainable urban development" and in particular the "Sustainable development of cities".</p>	
Type of Indicator	Output	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Number	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	12, 28	

Identity No.	9	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		CULTURAL HERITAGE
Environmental Indicator:		CHANGES IN VISITS FREQUENCY IN CULTURAL HERITAGE AREAS
Definition and feasibility of indicator	<p>This indicator measures the changes in visits frequency in cultural heritage areas due to implemented interventions.</p> <p>The indicator is consistent with the overall objective 17 of the NSRF: «"Promotion of culture as a vital factor of economic growth of the country" and more specifically the "enhancement of the cultural infrastructure of the country".</p>	
Type of Indicator	Impact	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Positive/Negative/Neutral	
Completion of Indicator	<p>The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.</p>	
Calculating Method of indicator in the Operational Programme	<p>The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme</p>	
Code of Priority Theme	12, 57, 58, 60	

Identity No.	10	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		POPULATION – QUALITY OF LIFE – HUMAN HEALTH
Environmental Indicator:		NUMBER OF PROJECTS ON RISK PREVENTION
Definition and feasibility of indicator	<p>This indicator measures the number of risk prevention and natural hazard projects, projects of response to natural, technological and environmental disasters, as well as projects of restoration of afflicted areas.</p> <p>The use of the indicator is in line with the General Target 15 of the NSRF "The sustainable management of the environment" and more specifically with the "risk management".</p>	
Type of Indicator	Output	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Number	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	54	

Identity No.	11	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		BIODIVERSITY – FAUNA-FLORA
Environmental Indicator:		INTERVENTIONS FOR THE PROTECTION OF NATURA AREAS
Definition and feasibility of indicator	<p>The indicator measures the total number of interventions that will be implemented during the current programming period, either partly or fully, within the boundaries of the NATURA 2000 network areas. The interventions concern the protection status of the areas (creation of managing bodies, elaboration of studies and operational plans, etc), the implementation of pilot projects, the actions for protecting and studying specific species, infrastructures for the facilitation of accessibility in the area, the encouragement for visitation and actions for the rehabilitation of habitats or species.</p> <p>The indicator reflects the contribution of the Operational Programme for the protection and promotion of the NATURA 2000 network areas.</p>	
Type of Indicator	Output	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Number	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	51, 54	

Identity No.	12	IDENTITY OF ENVIRONMENTAL INDICATOR
Environmental Component(factor):		SOIL - LAND USE
Environmental Indicator:		NUMBER OF PROJECTS CONCERNING SOLID WASTE MANAGEMENT
Definition and feasibility of indicator	<p>The indicator measures the number of waste management projects during the programming period 2007-2013.</p> <p>The indicator contributes to the monitoring of the implementation progress of the National Planning for Solid Waste Management as the Joint Ministerial Decision 50910/2727/03 (Governmental Gazette 1909 B'), which incorporates the community guideline 91/156 on solid waste and of the Regional Planning for Solid Waste Management.</p> <p>The use of the indicator is in line with the overall objective 15 of the NSRF "The sustainable management of the environment" and more specifically with the "efficient management of ground systems", which focuses, among other things, to the complete management of solid waste and the protection of the ground.</p>	
Type of Indicator	Output	
Source data	Lead Partner, Managing Authority and other relevant body	
Unit of Measurement	Number	
Completion of Indicator	The Lead Partner sets a tentative target value in the Project Application Form which may be updated in the Approved Application Form. The target value is inserted in the MIS and the Lead Partner/Partner is committed to its achievement within the project scope. The MA/JTS is responsible for inserting the baseline values in the MIS. Any relevant information on the achieved values of all indicator values will be presented in the Progress Reports.	
Calculating Method of indicator in the Operational Programme	The JTS sums the values of the indicator from the Application Form of each approved proposal, where the indicator is used, in order to assess the achievement of the target on the level of the Operational Programme.	
Code of Priority Theme	44	