

## Logical Framework Matrix

<b>Preparation of the Impact, Vulnerability and Adaptation Strategy (IVAS) to Climate Change</b>		Programme name and number <b>IPA 2008</b>	
Ministry of Environmental Protection, Physical Planning and Construction		Contracting period expires:	Disbursement period expires:
		<b>Total budget: € 3.000.000</b>	<b>IPA budget: € 2.750.000</b>
<b>Overall objective</b>	<b>Objectively Verifiable Indicators</b>	<b>Sources of Verification</b>	
Fulfilment of UNFCCC obligations in relation to assessment of impacts, vulnerability and adaptation to climate change in relevant environmental and economic management sectors.	<ul style="list-style-type: none"> <li>• Obligation of further climate change researches carried out</li> <li>• Research program in all sectors prepared</li> <li>• Research program in respect of impact, vulnerability and adaptation in all sectors implemented</li> <li>• Future national research program in respective sectors harmonized with the above mentioned program</li> </ul>	<ul style="list-style-type: none"> <li>• Regular UNFCCC Reports</li> <li>• MEPPPC reports</li> </ul>	
<b>Project purpose</b>	<b>Objectively Verifiable Indicators</b>	<b>Sources of Verification</b>	<b>Assumptions</b>
To prepare the Impact, Vulnerability and Adaptation Strategy (IVAS) on the basis of the findings of the 4 <sup>th</sup> IPCC Report and in accordance with the Nairobi "Five year programme of work in impacts, vulnerability and adaptation to climate change". The Strategy should assist the Republic of Croatia in making decisions on practical adaptation actions and measures to respond to current and future climate change on a sound scientific, technical and socio-economic basis.	<ul style="list-style-type: none"> <li>• List of research subjects in all sectors prepared</li> <li>• List of adaptation measures prepared and explained</li> <li>• Percentage of adaptation measures implemented in respective sector development programmes</li> </ul>	<ul style="list-style-type: none"> <li>• Regular UNFCC Reports</li> <li>• MEPPPC reports</li> <li>• Respective sectoral reports</li> </ul>	<ul style="list-style-type: none"> <li>• Findings of the 4<sup>th</sup> IPCC report on climate change (što sa njima? Ubaciti odgovarajući glagol) used</li> <li>• Findings of the regional tendencies of climate change (SE Europe, Croatia) (što sa njima? Ubaciti odgovarajući glagol) used</li> <li>• Further adoption of legal acts and/or regulations enabling to meet UNFCCC targets</li> <li>• Optimal cooperation between the Ministries and relevant institutions has been accomplished</li> <li>• Stakeholders and decision makers awareness related to the climate</li> </ul>

			change issues enhanced
<b>Results</b>	<b>Objectively Verifiable Indicators</b>	<b>Sources of Verification</b>	<b>Assumptions</b>
<p>1. Modelling hardware and software provided to stakeholders (in accordance with the needs assessment carried out by the MEPPPC)</p> <p>2.1. Study on future climate change on local level prepared in meteorology sector</p> <p>2.2 Reports on past and present researches among the sectors prepared</p> <p>2.3-2.7 Impact and vulnerability to climate change estimated and relevant adaptation policy and measures integrated into all below mentioned sectors (hydrology and water resources, agriculture, forestry, biological diversity and natural land ecosystems, coast and coastal area, marine ecosystem and biodiversity, tourism, human health) by the relevant line ministries and institutions</p> <p>2.8 Study on assessment of the insectorial cooperation needs</p> <p>2.9 Study on assessment of the capacity building needs in sectors prepared</p> <p>2.10 IVA National Strategy produced</p> <p>2.11 Workshops on IVAS delivered</p> <p>2.12 Media coverage realised throw press releases, interviews, leaflets etc.</p>	<ul style="list-style-type: none"> <li>• Number of stakeholders equipped with the modelling hardware</li> <li>• Number of installed softwares</li> <li>• Number of research projects carried out</li> <li>• Number of adaptation projects implemented</li> <li>• IVAS produced</li> <li>• Number of adaptation experts employed</li> <li>• Number of participants to organised workshops</li> <li>• Number of press releases/leaflets produced</li> </ul>	<ul style="list-style-type: none"> <li>• Supply contracts</li> <li>• Regular UNFCCC Reports</li> <li>• MEPPPC reports</li> <li>• IVA National Strategy</li> <li>• Progress reports</li> <li>• Attendance list</li> <li>• Journals/Internet</li> </ul>	<ul style="list-style-type: none"> <li>• Modelling hardware and software used by all the stakeholders</li> <li>• Optimal cooperation between the ministries and relevant institutions has been accomplished;</li> <li>• Knowledge of modelling and preparation of the scenarios provided;</li> <li>• Implementation of the methods and tools needed for the assessment of the climate change</li> <li>• Development strategies in all sectors prepared.</li> <li>• Stakeholders and decision makers awareness related to the climate change issues enhanced</li> </ul>
<b>Activities</b>	<b>Means</b>	<b>Specification of costs</b>	<b>Assumptions</b>

<p>Component 1:  1.1 Supply of equipment for modelling  1.2 Supply of modelling software</p> <p>Component 2:  2.1 Modelling of future climate scenarios  2.2 Assessment of present and past research activities in respective sectors  2.3 Assessment of impacts and vulnerabilities in respective sectors  2.4 Assessment of potential adaptation options, their costs and benefits  2.5 Assessment of respective measures and their costs  2.6 Prioritization of measures  2.7 Assessment of the taxation/subsidies needs for the particular measure implementation  2.8 Estimation of the cross-cutting issues and respective inter-sectoral coordination needs  2.9 Assessment of the capacity building needs in sectors  2.10 IV&amp;A Strategy preparation  2.11 Stakeholder engagement through workshops on IV&amp;A S  2.12 Public awareness on IV&amp;A S</p>	<p>(1) Supply Contract</p> <p>(2) Technical Assistance Contract</p>	<p><b>Total: € 3.000.000</b>  <b>€ 1.000.000</b></p> <p><b>€ 2.000.000</b></p>	<ul style="list-style-type: none"> <li>• Timely procurement of modelling hardware and software</li> <li>• Experts available</li> <li>• Results of present and past research available</li> <li>• A high level of involvement, cooperation and participation of all stakeholders</li> </ul>
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**Preconditions**

- A high level of involvement, cooperation and participation of all respective ministries
- Working agreement with all respective institutions
- Assessment of relevant institutions needs for modelling hardware and software