

**Annex 16 — Template of Project Fiche for IPA programmes
/ component I - decentralised management**

Standard Summary Project Fiche – IPA decentralised National programmes
(maximum 12/15 pages without the annexes)

1. Basic information

1.1 CRIS Number: TR2010/0327.05

1.2 Title: Capacity Building to implement the Flood Directive

1.3 ELARG Statistical code: 27 - Environment

1.4 Location: Turkey

1.5 Implementing Agency:

The CFCU will be Implementing Agency and will be responsible for all procedural aspects of the tendering process, contracting matters and financial management, including payment of project activities. The director of the CFCU will act as Programme Authorizing Officer (PAO) of the project. The contact details of CFCU Director are given below:

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Söğütözü/Ankara TÜRKİYE

1.6 Beneficiary (including details of SPO):

The General Directorate of State Hydraulic Works (DSİ), affiliated to the Ministry of Environment and Forestry, is the main beneficiary of the project. DSİ will ensure the sufficient amount of resource and staff in order to achieve the objectives of the project.

The details of Senior Programme Officer (SPO), Project Leader, and RTA Counterpart are as follows:

Senior Project Officer (SPO):

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Financing:

- 1.7 Overall cost (VAT excluded)¹: 1,800,000 Euro
- 1.8 EU contribution: 1,710,000 Euro
- 1.9 Final date for contracting: 2 years after the signature of financing agreement
- 1.10 Final date for execution of contracts: 2 years following the end date for contracting
- 1.11 Final date for disbursements: 1 year after the end date for the execution of contract

2. Overall Objective and Project Purpose

2.1 Overall Objective:

To reduce the adverse consequences of flood events for human health, environment, cultural heritage and economic activity by setting out a framework for the assessment and management of flood risk.

2.2 Project purpose:

Building up an administrative and technical capacity in the General Directorate of State Hydraulic Works (DSİ) in order to transpose and implement Flood Risks Assessment and Management Directive (2007/60/EC) (shortly named as Flood Directive) in Turkey.

2.3 Link with AP/NPAA / EP/ SAA

Accession Partnership with the Republic of Turkey (2008) does not include any specific topics regarding the Flood Directive.

However, a comprehensive strategy for gradual transposition, implementation and enforcement of the Acquis, including plans for building up the necessary administrative capacity at national, regional and local level and required financial resources, with an indication of milestones and timetables under Environment Chapter is required to be adopted in short term according to AP.

¹ The total cost of the project should be net of VAT and/or other taxes. Should this not be the case, the amount of VAT and the reasons why it should be considered eligible should be clearly indicated (see Section 7.6)

Also, the continuation of transposition and implementation of the Acquis related to water quality subject including Flood Directive is the main statement of Medium-Term Priorities of AP.

In 2008 National Programme for the Adoption of Acquis (NPAA), the following issues are envisaged to be done related to Flood Directive:

- Transposition to National Legislation after 2011
- Identification of institutional needs for the implementation between 2009-2010
- Realization of a project to achieve above-mentioned issues between 2009-2011

Since Flood Directive cannot be treated separately from Water Framework Directive (WFD) and twinning project on WFD will be finalized in the first quarter of 2010, it is evaluated more realistic to conduct this project on Flood Directive within the framework of IPA Component 1 2010 programme to get the highest benefit from outputs of WFD project.

It is given a very rough estimation about the institutional and financial requirements for the transposition and implementation of the Directive in the **“Republic of Turkey, Plan for Setting up Necessary Administrative Capacities at National, Regional and Local Level and Required Financial Resources for Implementing the Environment Acquis”**, dated 30 September 2009.

Therefore, it is stated in **the Negotiating Position of the Republic of Turkey for the EU Environment Chapter** that the transposition studies are envisaged to be accelerated through a project submitted to IPA 2010 Programme.

Within the framework of this project, by 2014, transposition and implementation dates will be determined, and assessment of the preliminary flood risks, preparation of the flood hazard and risk maps, and preparation of the Draft Flood Risk Management Plan for a pilot basin will be carried out in coordination with the principles of WFD and public consultation.

2.4 Link with MIPD

In the Multi-annual Indicative Planning Document (MIPD) 2009-2011, flood issue has taken place under the Component II Cross-Border Cooperation Part. It is mentioned in the expected results of this component as follows;

-Environment problems of the neighbouring regions, including issues such as river basin management, flood protection and fire prevention, are expected to be addressed.

2.5 Link with National Development Plan (where applicable)

In the 9th National Development Plan; the following items has been taken place in the context of the heading of Protection of Environment and Development of Urban Infrastructure under the Axis of Increasing the Competitiveness ;

453. Principals of protection and utilization of natural resources will be defined by taking into consideration the requirements of the next generations, and environmental

management systems will be established in such a manner that everyone can benefit fairly from these resources.

466. The best appropriate systems and technologies for circumstances of the country will be preferred for construction, operation and maintenance of infrastructures such as water, wastewater, and solid waste aiming at environment protection.

468. Ongoing studies aiming at legal arrangements and setting up administrative structure related with allocation, utilization, and development of water resources and their protection from pollution will be finalized.

2.6 Link with national/ sectoral investment plans(where applicable)

N/A

In the National Investment Plan, the proportion of the flood related projects have been increased due to the last severe floods in Turkey. For instance, 89 million Turkish Liras was allocated for 543 flood prevention and protection projects in 2009, 222 million Turkish Liras has been allocated for 919 flood prevention and protection projects in 2010.

3. Description of project

3.1 Background and justification:

Flood Risks Assessment and Management Directive (2007/60/EC) is specific to the issue of flood and its damages. The Directive aims to set out a mechanism to establish a framework for the assessment and management of flood risks, aiming at the reduction of the adverse consequences for human health, the environment, cultural heritage and economic activities associated with floods in the Community.

In our country, floods rank the second among the natural disasters after earthquakes in terms of losses. The floods occur most frequently in the months of spring and fall, and most vulnerable regions to floods are the Black Sea, Mediterranean and West Anatolia geographical regions. Diversification and concentration of human activities cause hydrological balances to distort, and this gives way to the increase of flood disasters causing a great deal of losses of life and property. The distortion in the precipitation regime due to the effect of climate change even boosts this increase. In accordance with the data of the existing inventory, economic loss due to floods is approximately 100 million USD\$ in average for each year. Up to now, in total 695 floods have occurred between 1975 and 2009, and 634 people lost their lives due to these floods, 799.758 ha of lands have been flooded and in total there has been an economic loss of about 3,63 billion USD\$. In particular, Batı Karadeniz Basin had significant floods in 1998 which resulted in 2 people and thousands of husbandary animals lost their lives, and inundated 3227 house and 31544 ha agricultural area.

In order to decrease the impact of flood phenomena In Turkey, there is one main law, namely the Law No. 6200 on Establishment of General Directorate of State Hydraulic Works (DSİ) (Official Gazette: 18 December 1953, No. 8592), directly including the flood issue and two indirect laws, namely Law No. 4373 on Protection Against Floods (Official Gazette: 22 July 1970 No. 13556) and Law No. 7269 on Precaution and Aid Against Disasters Effecting Common Life (Official Gazette: 25 May 1959, No. 10213). There are also 1Prime Ministerial Circulars, namely River Beds and Floods (Official Gazette: 9 September 2006, no. 2006/27)

and Rehabilitation of River Beds and Creek Beds (Official Gazette: 20 February 2010, no. 2010/27) related with the flood. The existing legal situation points out that the current approach related with flood phenomenon does not fully meet the requirements of the Flood Directive. Therefore, Turkey has to start the necessary legislative and technical studies on this subject in parallel with the timetables given in the Strategy Documents and National Plans.

DSİ continues to work on the inventory of flood records and damages within the scope of this Directive. But, there is a need to analyze existing legal and institutional situation, to define necessary infrastructure in terms of technical equipments, and to improve the capacity of staff working on flood issues on the requirements of the Directive. Therefore, transposition works are planned to be accelerated through this project. Transposition and implementation dates of the legislation will be determined at the end of the project. Additionally, a preliminary flood risk assessment, flood hazard maps, flood risk maps, and a draft flood risk management plan for pilot basin will be prepared in line with the requirements of the Flood Directive.

3.2 Assessment of project impact, catalytic effect, sustainability and cross border impact (where applicable)

The project will contribute to the strengthening of existing technical and administrative capacity for the implementation of Flood Directive in Turkey. In addition, the project in question will assist in raising the awareness of interest groups (local authorities, industrialists, farmers, tourism sector, general public etc.) at the pilot basins to be selected in the project on the EU Flood Directive and the requirements thereof.

As the Flood Directive is a new directive, the project will shed light on its relationships with other directives under the Environment Chapter in the process of Turkey's alignment and implementation of EU legislation.

Furthermore, trained staff and documents produced by project will help continuation of the studies both in regional directorates located in the basins and at headquarters of DSİ.

Since the plans that will be developed in the scope of the Project create the sub-plans of River Basin Management Plan, they will directly affect the management of water resources in the basin and contribute significantly to the sustainable use of the mentioned water resources.

Beneficiary institution, namely DSİ, is responsible for the transposition and implementation of the Directive in Turkey. Similar to the other EU Member States, the studies on this Directive have recently been initiated in Turkey. As stated in the "Negotiating Position of the Republic of Turkey for the EU Environment Chapter", it is planned to start preparation of flood risk management plans for all basins after the completion of this IPA-2010 project by 2014, to be in line with the river basin management plans. In conclusion, Turkey will start to implement the provisions of the Flood Directive in compliance with outputs of this IPA-2010 project.

3.3 Results and measurable indicators:

Results and measurable indicators in relation with activity 1:

Result: Enhanced juridical capacity, and improved technical and institutional capacity at adequate level, and increased awareness and participation regarding flood phenomena and the Flood Directive.

Measurable indicators:

- Drafting of detailed legal gap analysis report including possible options for transposition of the Flood Directive at the end of Q4.
- Drafting of detailed institutional gap analysis report including possible options for strengthening the current institutional structure to apply the requirements of Flood Directive at the end of Q4.
- Drafting of detailed staffing and training need analysis report including preparation of training materials and guidelines
- Preparation of a report on an effective communication strategy among the stakeholders for the implementation of Flood Directive in Turkey, involving a mechanism for public information, consultation, and active involvement on the preliminary flood risk assessment, the flood hazard maps, the flood risk maps and flood risk management plans and also cooperation with neighbouring EU Member States on the implementation of the Flood Directive at the end of Q4.
- Training of minimum 100 staff (at least 10 of them will be trained as trainers) from beneficiary (both central and regional level) on the implementation of the Flood Directive at the end of project.
- Realization of at least eight workshops (at least 1 workshop in each quarter) during the whole project period about the various aspects of the Flood Directive at the end of project.
- Carrying out 3 study tours to be able to draw lessons on implementation practices in Member States which have different hydrological regime (at least one is similar with the type of flood events seen in Turkey) at the end of project. (15 persons x 15 days)
- Preparation of a report on the implementation of existing flood models which is used in determination of flood risks areas by EU member states at the end of Q2.

Results and measurable indicators in relation with activity 2:

Result: Implementation of the Flood Directive in a pilot basin, namely Bati Karadeniz River Basin, aiming at decreasing adverse effects of floods compared to the 1998 floods.

Measurable indicators:

- Preparation of a data needs assessment report for preparation of Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps, and Flood Risk Management Plan at the end of Q2.
- Preparation of map for the pilot basin at appropriate scale including the borders of the basin, sub-basins, and where exists, coastal areas showing topography and land use at the end of Q3.
- Preparation of a report on assessment of the floods which have occurred in the past and which had significant adverse impacts, of flood risks taking into consideration of climate change effects, and of the potential adverse consequences of future floods on human health, environment, cultural heritage and economic activity at the end of Q3.
- Drafting of a Preliminary Flood Risk Assessment Report for pilot basin at the end of Q4.
- Preparation of flood hazard map for pilot basin at the end of Q5.
- Preparation of flood risk map for pilot basin at the end of Q6.

- Preparation of a report on assessment of appropriate objectives for the management of flood risks for the areas defined in the basin, focusing on the reduction of potential adverse consequences of flooding at the end of Q6.
- Preparation of a report on measures for achieving appropriate objectives for the management of flood risks at the end of Q6.
- Drafting of Flood Risk Management Plan for the pilot basin at the end of project.
- Preparation of Guidelines and manuals for the implementation of the Flood Directive at the end of project.

Results and measurable indicators in relation with activity 3:

Results: Development of National Implementation Plan for the Flood Directive in Turkey through Regulatory Impact Assessment Methodology

Measurable indicators:

- Preparation of a report on the investment needs for future implementation of the Flood Directive in pilot basin at the end of Q6.
- Preparation of a report on cost analysis including future investment needs for the full implementation of Flood Directive in Turkey at the end of Q7.
- Preparation of a detailed national implementation plan for the Flood Directive (including estimations of costs for compliance), which will include intermediate steps on how to achieve compliance at the end of project.
- Drafting a regulatory impact assessment report for the Flood Directive at the end of project.
- Preparation of a report on the coordination mechanism between the implementation of Directive 2000/60/EC and Directive 2007/60/EC at the end of project.

3.4 Activities:

Activity 1. Enhancing juridical capacity, and improving technical and institutional capacity at adequate level, and increasing awareness and participation regarding flood phenomena and the Flood Directive.

Activity 1.1 Legal and Institutional Gap Analyses

Activity 1.1.1 Review and analyse the existing Turkish legislation on flood issue.

Activity 1.1.2 Prepare a detailed legal gap analysis report including possible options for transposition of the Flood Directive.

Activity 1.1.3 Review and analyse institutions and their administrative and technical capacities to implement the Flood Directive.

Activity 1.1.4 Analyse possible options for strengthening the current institutional structure to apply the requirements of Flood Directive.

Activity 1.2 Training Program

Activity 1.2.1 Make training needs assessment and apply comprehensive training programs including training of trainers, preparation of training manuals and guidelines, seminars, workshops to comprehend the various aspects of Flood Directive implementation.

Activity 1.2.2 Held workshops, seminars, and field studies on preliminary flood risk assessment, flood risk maps, flood hazard maps, and draft flood risk management plans by examining case studies from Member States.

Activity 1.2.3 Conduct 3 study tours for beneficiary and stakeholder institutions to be able to draw lessons on implementation practices in Member States which have different hydrological regime (at least one is similar with the type of flood events seen in Turkey).

Activity 1.2.4 Carry out training activities to increase the current technical capacity related with the existing flood models used in EU Member States.

Activity 1.2.5 Carry out training activities on how to cooperate and exchange experience with neighbouring EU Member States on the implementation of the Flood Directive

Activity 1.3 Preparation of Communication Strategy

Activity 1.3.1 Set up an effective communication strategy among the stakeholders for the implementation of Flood Directive in Turkey, involving a mechanism for public information, consultation and active involvement on the preliminary flood risk assessment, the flood hazard maps, the flood risk maps, and Flood Risk Management Plans and also cooperation with neighbouring EU Member States on the implementation of the Flood Directive,

Activity 1.3.2 Held informative meetings related with the implementation of the project outputs such as Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps and Draft Flood Risk Management Plan with participation of all stakeholders.

Activity 2. Implementation of the Flood Directive in a pilot basin, namely Batı Karadeniz River Basin, aiming at decreasing adverse effects of floods compared to the 1998 floods.

Activity 2.1 Data Needs Assessment for the Pilot Basin

Activity 2.1.1 Analyze data needs for preparation of Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps and Draft Flood Risk Management Plan.

Activity 2.1.2 Prepare a data need assessment report for preparation of Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps, and Flood Risk Management Plans.

Activity 2.2 Preliminary Flood Risk Assessment in the Pilot Basin

Activity 2.2.1 Prepare map of the pilot basin at appropriate scale including the borders of the basin, sub-basins, and where existing coastal areas showing topography and land use.

Activity 2.2.2 Describe the floods which have occurred in the past and which had significant adverse impacts on human health, environment, cultural heritage and economic activity.

Activity 2.2.3 Assess the potential adverse consequences of future floods for human health, the environment, cultural heritage and economic activity.

Activity 2.2.4 Assess the impacts of climate change on the occurrence of floods and potential adverse consequences of them.

Activity 2.2.5 Prepare a Preliminary Flood Risk Assessment Report.

Activity 2.3 Flood Risk Maps and Flood Hazard Maps in the Pilot Basin

Activity 2.3.1 Determine the flood scenarios with low, medium, and high probability.

Activity 2.3.2 Determine the flood extent, water depths or water level, etc. for each scenario.

Activity 2.3.3 Determine the potential adverse consequences such as on the number of inhabitants, economic activity, etc. associated with flood scenarios.

Activity 2.3.4 Prepare flood risk maps and flood hazard maps.

Activity 2.4 Flood Risk Management Plan in the Pilot Basin

Activity 2.4.1 Establish appropriate objectives for the management of flood risks for the areas defined in the basin, focusing on the reduction of potential adverse consequences of flooding.

Activity 2.4.2 Establish the necessary measures for achieving appropriate objectives for the management of flood risks.

Activity 2.4.3 Prepare Flood Risk Management Plan for the pilot basin.

Activity 2.5 Dissemination of the Experiences from the Pilot Basin

Activity 2.5.1 Prepare the guidelines and manuals which explain the step by step and the methodology of works to be conducted for pilot basin in detail for the implementation of Flood Directive.

Activity 3. Preparation of National Implementation Plan for the Flood Directive through Regulatory Impact Assessment Methodology.

Activity 3.1 Identify the alternative options for implementation of the Flood Directive, taking into account, inter alia, how the implementation will be coordinated with the studies under Directive 2000/60/EC.

Activity 3.2 Analyse the investment needs for future implementation of the Flood Directive in Turkey, for each option.

Activity 3.3 Estimate the cost of transposition and implementation (including investment needs) of Flood Directive by adapting the results for 3 quick scan basins which are Doğu Akdeniz River Basin, Yeşilirmak River Basin, and Akarçay River Basin for each option.

Activity 3.4 Identify the social and environmental impacts of each option.

Activity 3.5 Compare the options which have been defined for the implementation of the Flood Directive.

Activity 3.6 Prepare the detailed national implementation plan for the Flood Directive (including estimations of costs for compliance). The plan will include all steps on how to achieve compliance.

Activity 3.7 Prepare a report on how the coordination between the implementation of Directive 2000/60/EC and Directive 2007/60/EC will be.

3.5 Conditionality and sequencing:

N/A

3.6 Linked activities

TR0602.15 – Project on Capacity Improvement for Flood Forecasting and Flood Control in the TR-BG CBC Region

An EU funded project under the Cross-border Cooperation Programme namely "Capacity Improvement for Flood Forecasting and Flood Control in the TR-BG CBC Region" has been carried out by DSI. The purpose of CBC Project is to reduce the number of accidents, injuries, deaths, and economic losses as a result of improved flood protection and flood hazard prevention measures in the TR-BG border region. In order to achieve this goal, the following activities have been carried out in general terms:

1. Establishment of flood forecasting and early warning system for the TR/BG cross-border rivers.
2. Delivery, installation, putting into operation, testing and calibration of automatic hydro-meteorological stations with real time data transmission facilities at 4 certain locations.
3. Regulation of River Bed in Meriç River and opening a connection channel between Meriç (Maritza) and Tunca (Tundja) rivers.

As it is seen from the activities of the CBC Project, it was aiming at neither the transposition of Flood Directive nor the implementation of it.

Mitigating Flood Risk in the Flooded Areas in the GAP Region (GAP-SEL) in Turkey

GAP-SEL aims at mitigating the negative outcomes of the flood disaster in the recent years in the South eastern Anatolian Region and introducing long term solutions for mitigating flood risk. The project has been carried out by the GAP Regional Development Administration. During the tendering period of the project many project proposals were evaluated and commented by DSI as a Turkish authority in Turkey. The project is going on and the necessary participation and the contribution to the project are ensured by DSI Regional Directorates.

3.7 Lessons learned

TR0602.15 – Project on Capacity Improvement for Flood Forecasting and Flood Control in the TR-BG CBC Region

In the mentioned project, capacity building works for the flood forecasting have been carried out and construction works have been going on in a certain part of the Meriç (Maritza) River bed to improve the river bed capacity. The implementation of the Project has been still going on and it has been realized in the scope of the works carried out so far that the cooperation between the stakeholders is important in order to minimize the flood damages. Moreover, it has been understood that both structural and non-structural measures should be taken in a coordinated way against the floods.

Mitigating Flood Risk in the Flooded Areas in the GAP Region (GAP-SEL) in Turkey

In the scope of the mentioned project, the project proposals submitted by the local governments to DSI have been examined and it has been observed that the local governments do not have sufficient technical capacity concerning the floods. It has been comprehended that

the capacities of local governments should be increased in terms of mitigating the flood risks and damages.

TR0603.04 - Capacity Building Support to the Water Sector in Turkey

Experience on the drafting of the project idea, project design, implementation of the project, formulation of the budgetary issues and evaluation of the outputs, sequencing of the activities were gained from the twinning part of the aforementioned project. This experience will be used in the all stages of the implementation of the flood project in an effective manner.

4. Indicative Budget (amounts in EUR)

			SOURCES OF FUNDING										
			TOTAL EXP.RE	TOTAL PUBLIC EXP.RE	IPA COMMUNITY CONTRIBUTION		NATIONAL PUBLIC CONTRIBUTION						PRIVATE CONTRIBUTION
ACTIVITIES	IB (1)	INV (1)	EUR (a)=(b)+(e)	EUR (b)=(c)+(d)	EUR (c)	% (2)	Total EUR (d)=(x)+(y)+(z)	% (2)	Central EUR (x)	Regional/ Local EUR (y)	IFIs EUR (z)	EUR (e)	% (3)
Activity 1													
Twinning Contract	X	–	1,800,000	1,800,000	1,710,000	95	90,000	5	90,000				–
.....													
TOTAL IB			1,800,000	1,800,000	1,710,000		90,000		90,000				
TOTAL INV													
TOTAL PROJECT			1,800,000	1,800,000	1,710,000		90,000		90,000				

NOTE: DO NOT MIX IB AND INV IN THE SAME ACTIVITY ROW. USE SEPARATE ROW

Amounts net of VAT

(1) In the Activity row use "X" to identify whether IB or INV

(2) Expressed in % of the **Public** Expenditure (column (b))

(3) Expressed in % of the **Total** Expenditure (column (a))

For Twinning contracts joint cofinancing will be provided to cover 5% of the costs of the Twinning contract. Additional parallel cofinancing will be provided in order to cover costs of activities not eligible for IPA support in line with the Twinning Manual.

5. Indicative Implementation Schedule (periods broken down per quarter)

Contracts	Start of Tendering	Signature of contract	Project Completion
Twinning Contract	IQ2011	IVQ2011	IVQ2013

All projects should in principle be ready for tendering in the 1ST Quarter following the signature of the FA

The duration of the project is 24 months.

6. Cross cutting issues (where applicable)

6.1 Equal Opportunity

Participation in this project will be open to both males and females involved in the sector. Records of professionals' participation in all project related activities will reflect this and will be kept with the project documentation.

6.2 Environment

The Project itself is focused on the achievement of long-term environmental improvements in Turkey. The Project itself will probably not have any adverse environmental impacts, other than those due to normal activities (e.g. transport). As an example to others and as a matter of principle, the environmental impact of activities must be minimised as far as possible.

6.3 Minorities and vulnerable groups

According to the Turkish Constitutional System, the word minorities encompass only groups of persons defined and recognized as such on the basis of multilateral or bilateral instruments to which Turkey is a party. The barriers against participation of disabled people in the project

(such as in trainings) shall be overcome through a sensitive design of the project's activities.

6.4. Civil Society

The stakeholders and the local people living in the pilot basin will be informed about the proceedings of preparation of the flood hazard maps, flood risk maps, and flood risk management plan. During those activities, the public participation and stakeholder consultation will be provided.

ANNEXES

- 1- Log frame in Standard Format
- 2- Amounts contracted and Disbursed per Quarter over the full duration of Programme

ANNEX 1: Logical framework matrix in standard format

LOGFRAME PLANNING MATRIX FOR Project Fiche	Programme name and number	IPA-1 2010 Programming TR2010/0327.05
Capacity Building to implement the Flood Directive	Contracting period expires: 2 years after the signature of the Financing Agreement	Disbursement period expires: 5 years after the signature of the Financing Agreement
	Total budget : 1,8 M EUR	IPA budget: 1,710 M EUR

Overall objective	Objectively verifiable indicators	Sources of Verification	
To reduce the adverse consequences of flood events for human health, environment, cultural heritage and economic activity by setting out a framework for the assessment and management of flood risk.	Recognition by EC that considerable progress is being made in this area at the end of 2015.	<ul style="list-style-type: none"> • EC Regular Reports • State of Environmental Reports • Turkish National Statistics 	
Project purpose	Objectively verifiable indicators	Sources of Verification	Assumptions
Building up an administrative and technical capacity in the General Directorate of State Hydraulic Works (DSİ) in order to transpose and implement Flood Risks Assessment and Management Directive (2007/60/EC) in Turkey.	<ul style="list-style-type: none"> • A Preliminary Risk Assessment Report, Flood Risk Maps, Flood hazard maps, and draft Flood Risk Management Plan for pilot basin at the end of the project in order to decrease adverse consequences of the flood compared to the 1998 flood. • A Draft National Implementation Plan for the Flood Directive in Turkey at the end of the project. 	<ul style="list-style-type: none"> • EC Regular Progress Reports • Interim Evaluation Reports • Annual Activity Reports of DSİ for Turkey 	<ul style="list-style-type: none"> • A good collaboration and coordination with involved departments of the Ministry and Prime Ministry Disaster and Emergency Management Administration • Willingness of staff to work in collaboration and coordination with each other and with project team
Results	Objectively verifiable indicators	Sources of Verification	Assumptions
1. Enhanced juridical capacity, and improved technical and institutional capacity at adequate level, and increased awareness and	<ul style="list-style-type: none"> • Detailed legal gap analysis report including possible options for transposition of the Flood 	<ul style="list-style-type: none"> • Quarterly Progress and Monitoring Reports • Legal Gap Analysis 	<ul style="list-style-type: none"> • Close collaboration and coordination between institutions in Turkey is

participation regarding flood phenomena and the Flood Directive.

2. Implementation of the Flood Directive in a pilot basin, namely Batı Karadeniz River Basin, aiming at decreasing adverse effects of floods compared to the 1998 floods.

3. Development of National Implementation Plan for the Flood Directive in Turkey through Regulatory Impact Assessment Methodology

Directive at the end of Q4.

- Detailed institutional gap analysis report including possible options for strengthening the current institutional structure to apply the requirements of Flood Directive at the end of Q4.
- Detailed staffing and training need analysis report including preparation of training materials and guidelines
- A report on an effective communication strategy among the stakeholders for the implementation of Flood Directive in Turkey, involving a mechanism for public information, consultation and active involvement on the preliminary flood risk assessment, the flood hazard maps, the flood risk maps and Flood Risk Management Plans and also cooperation with neighbouring EU Member States on the implementation of the Flood Directive at the end of Q4.
- Minimum 100 trained staff (at least 10 of them will be trained as

Report

- Institutional Gap Analysis Report
- Staffing and Training Assessment Reports including training materials and guidelines
- Quarterly Reports of Twinning Contract
- Interim Evaluation Reports
- Reports on study tours

maintained.

- Close collaboration between twinning experts and the staff of relevant institutions is provided.
- The necessary technical and administrative support are available in all levels
- The institutional staff is capable of developing new skills during training activities.
- Stability of project staff is ensured at all levels
- The necessary data and required information for the implementation of the Flood Directive are available.

trainers) from beneficiary (both central and regional level) on the implementation of the Flood Directive at the end of project.

- At least 8 workshops (at least 1 workshop in each quarter) during the whole project period about the various aspects of the Flood Directive at the end of project.
- 3 study tours to be able to draw lessons on implementation practices in Member States which have different hydrological regime (at least one is similar with the type of flood events seen in Turkey) at the end of project. (15 people X 15 days)
- A report on the implementation of existing flood models which is used in determination of flood risks areas by EU member states at the end of Q2.

- A data needs assessment report for preparation of Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps, and Flood Risk Management

Plans at the end of Q2.

- Map of the pilot basin at appropriate scale including the borders of the basin, sub-basins, and where existing coastal areas showing topography and land use at the end of Q3.
- A report on assessment of the floods which have occurred in the past and which had significant adverse impacts, of flood risks taking into consideration of climate change effects, and of the potential adverse consequences of future floods on human health, environment, cultural heritage and economic activity at the end of Q3.
- A Preliminary Flood Risk Assessment Report for pilot basin at the end of Q4.
- A flood hazard map for pilot basin at the end of Q5.
- A flood risk map for pilot basin at the end of Q6.
- A report on assessment of appropriate objectives for the management of flood risks for the areas defined in the basin,

focusing on the reduction of potential adverse consequences of flooding at the end of Q6.

- A report on measures for achieving appropriate objectives for the management of flood risks at the end of Q6.
- Flood Risk Management Plan for the pilot basin at the end of project.

- A report on the investment needs for future implementation of the Flood Directive in pilot basin at the end of Q6.
- A report on cost analysis including future investment needs for the full implementation of Flood Directive in Turkey at the end of Q7.
- A detailed national implementation plan for the Flood Directive (including estimations of costs for compliance), which will include intermediate steps on how to achieve compliance at the end of project.
- A regulatory impact assessment report for the Flood Directive at

	<p>the end of project.</p> <ul style="list-style-type: none"> • Guidelines and manuals for the implementation of the Flood Directive at the end of project. • A report on the coordination mechanism between the implementation of Directive 2000/60/EC and Directive 2007/60/EC at the end of project. 		
Activities	Means	Costs	Assumptions
<p>1. Enhancing juridical capacity, and improving technical and institutional capacity at adequate level, and increasing awareness and participation regarding flood phenomena and the Flood Directive.</p> <p>1.1 Legal and Institutional Gap Analysis 1.1.1 Review and analyse the existing Turkish legislation on flood issue. 1.1.2 Prepare a detailed legal gap analysis report including possible options for transposition of the Flood Directive. 1.1.3 Review and analyse institutions and their administrative and technical capacities to implement the Flood Directive. 1.1.4 Analyse possible options for strengthening the current institutional structure to apply the requirements of Flood</p>	<ul style="list-style-type: none"> • Twinning 	<p>Twinning : 1,8 MEUR</p>	<ul style="list-style-type: none"> • That there will be a willingness to cooperate within the project team at provincial, local, regional and central level • That there is interest and willingness of governmental, local authorities and NGOs to participate in the implementation and dissemination of projects • The necessary data and the required information are available .

Directive.

1.2 Training Program

1.2.1 Make training needs assessment and apply comprehensive training programs including training of trainers, preparation of training manuals and guidelines, seminars, workshops to comprehend the various aspects of Flood Directive implementation.

1.2.2 Held workshops, seminars, and field studies on preliminary flood risk assessment, flood risk maps, flood hazard maps, and flood risk management plans by examining case studies from Member States.

1.2.3 Conduct 3 study tours for beneficiary and stakeholder institutions to be able to draw lessons on implementation practices in Member States which have different hydrological regime (at least one is similar with the type of flood events seen in Turkey).

1.2.4 Carry out training activities to increase the current technical capacity related with the existing flood model used in beneficiary.

1.2.5 Carry out training activities on how to cooperate and exchange experience with neighbouring EU Member States on the implementation of the Flood Directive,

1.3. Preparation of Communication

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<p>Strategy</p> <p>1.3.1 Set up an effective communication strategy among the stakeholders for the implementation of Flood Directive in Turkey, involving a mechanism for public information, consultation and active involvement on the preliminary flood risk assessment, the flood hazard maps, the flood risk maps and flood risk management plans and also cooperation with neighbouring EU Member States on the implementation of the Flood Directive.</p> <p>1.3.2 Held informative meetings related with the implementation of the project outputs such as Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps and Draft Flood Risk Management Plan with participation of all stakeholders.</p> <p>2. Implementation of the Flood Directive in a pilot basin, namely Batı Karadeniz River Basin, aiming at decreasing adverse effects of floods compared to the 1998 floods.</p> <p>2.1 Data Needs Assessment for the Pilot Basin</p> <p>2.1.1 Analyze data needs for preparation of Preliminary Flood Risk Assessment, Flood</p>		
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<p>Risk Maps, Flood Hazard Maps and Draft Flood Risk Management Plan.</p> <p>2.1.2 Prepare a data need assessment report for preparation of Preliminary Flood Risk Assessment, Flood Risk Maps, Flood Hazard Maps, and Draft Flood Risk Management Plans.</p> <p>2.2 Preliminary Flood Risk Assessment in the Pilot Basin</p> <p>2.2.1 Prepare map of the pilot basin at appropriate scale including the borders of the basin, sub-basins, and where existing coastal areas showing topography and land use.</p> <p>2.2.2 Describe the floods which have occurred in the past and which had significant adverse impacts on human health, the environment, cultural heritage and economic activity.</p> <p>2.2.3 Assess the potential adverse consequences of future floods for human health, environment, cultural heritage and economic activity.</p> <p>2.2.4 Assess the impacts of climate change on the occurrence of floods and potential adverse consequences of them.</p> <p>2.2.5 Prepare a Preliminary Flood Risk Assessment Report.</p>			
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<p>2.3 Flood Risk Maps and Flood Hazard Maps in the Pilot Basin</p> <p>2.3.1. Determine the flood scenarios with low, medium, and high probability.</p> <p>2.3.2 Determine the flood extent, water depths or water level, etc. for each scenario.</p> <p>2.3.3 Determine the potential adverse consequences such as on the number of inhabitants, economic activity, etc. associated with flood scenarios.</p> <p>2.3.4 Prepare flood risk maps and flood hazard maps.</p> <p>2.4 Flood Risk Management Plan in the Pilot Basin</p> <p>2.4.1 Establish appropriate objectives for the management of flood risks for the areas defined in the basin, focusing on the reduction of potential adverse consequences of flooding.</p> <p>2.4.2 Establish the necessary measures for achieving appropriate objectives for the management of flood risks.</p> <p>2.4.3 Prepare Flood Risk Management Plan for the pilot basin.</p> <p>2.5 Dissemination of the Experiences from the Pilot Basin</p> <p>2.5.1 Prepare the guidelines and manuals</p>		
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which explain the step by step and the methodology of works to be conducted for pilot basin in detail for the implementation of Flood Directive.

3. Preparation of National Implementation Plan for the Flood Directive through Regulatory Impact Assessment Methodology.

3.1 Identify the alternative options for implementation of the Flood Directive, taking into account, inter alia, how the implementation will be coordinated with the studies under Directive 2000/60/EC.

3.2 Analyse the investment needs for future implementation of the Flood Directive in Turkey, for each option.

3.3 Estimate the cost of transposition and implementation (including investment needs) of Flood Directive by adapting the results for 3 quick scan basins which are Doğu Akdeniz River Basin, Yeşilirmak River Basin, and Akarçay River Basin for each option.

3.4 Identify the social and environmental impacts of each option.

3.5 Compare of the options which have been defined for the implementation of the Flood Directive.

3.6 Prepare the detailed draft national

<p>implementation plan for the Flood Directive (including estimations of costs for compliance). The plan will include all steps on how to achieve compliance.</p> <p>3.7 Prepare a report on how the coordination between the implementation of Directive 2000/60/EC and Directive 2007/60/EC will be.</p>			
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Pre condition

ANNEX II: amounts (in €) Contracted and disbursed by quarter for the project (IPA contribution only)

Contracted	IQ2011	IIQ2011	IIIQ2011	IVQ2011	IQ2012	IIQ2012	IIIQ2012	IVQ2012	IQ2013	IIQ2013	IIIQ2013	IVQ2013	TOTAL
Twinning Contract				1,710,000									1,710,000
Cumulated				1,710,000	1,710,000	1,710,000	1,710,000	1,710,000	1,710,000	1,710,000	1,710,000	1,710,000	1,710,000
Disbursed													
Twinning Contract				1,094,400			273,600		171,000			171,000	1,710,000
Cumulated				1,094,400			1,368,000		1,539,000			1,710,000	1,710,000

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