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## This project is funded by the EUROPEAN UNION

The Instrument for Pre-Accession Assistance (IPA) Programme is a unified EU pre-accession programme for the 2007-2013 period. The main objectives of the IPA programme is to provide assistance to candidate countries like Croatia and potential candidate countries in their harmonisation and implementation of European directives and regulations (Acquis Communautaire) and to prepare them for the use of the Cohesion Fund and Structural funds.

Twinning is an instrument of administrative cooperation between public administrations of beneficiary countries and institutions of EU Member States. The aim of Twinning is providing assistance to beneficiary country through human resources development, modernisation and reorganisation of public administration as well as harmonisation of laws and regulations with the Acquis of the European Union.

The European Union is made up of 28 Member States who have decided to gradually link together their know-how, resources and destinies. Together, during a period of enlargement of 50 years, they have built a zone of stability, democracy and sustainable development whilst maintaining cultural diversity, tolerance and individual freedoms. The European Union is committed to sharing its achievements and its values with countries and peoples beyond its borders.

The European Commission is the EU's executive body.



## The European Union's IPA Programme for Croatia

IPA 2010  
Twinning project

### “Development of Flood Hazard Maps and Flood Risk Maps”

A project implemented by  
Dutch Government Service for Land and Water Management  
Austrian Environment Agency  
French International Office for Water  
together with Croatian Ministry of Agriculture and  
Croatian Waters



umweltbundesamt<sup>U</sup>  
PERSPEKTIVEN FÜR UMWELT & GESELLSCHAFT

International Office for Water  
Capacity building for better water management



## Basic information on the Twinning project

This Twinning was between Croatia and three EU Member States, the Netherlands, Austria and France.

The project budget was EUR 1.100.000,00 out of which 95% is financed by IPA and 5% by national co-financing.

### Project implementation

The project was implemented during 15 months, in the period between January 2013 and April 2014.

### Partner institutions from Member State countries:

- ▶ Government Service for Land and Water Management, the Netherlands – leading partner of the consortium
- ▶ Environment Agency, Austria – junior partner of the consortium
- ▶ International Office for Water, France – junior partner of the consortium

### Beneficiary institutions of the project:

- ▶ Ministry of Agriculture, Croatia
- ▶ Croatian Waters

For more details, please visit:

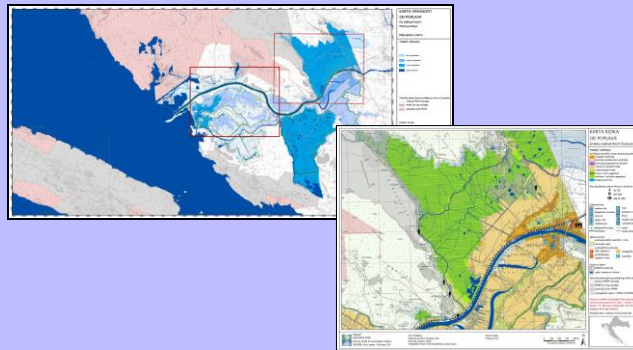
<http://twinning.voda.hr/>



## Twinning project purpose and results

The purpose of this project was the implementation of requirements of the Floods Directive in the preparation of flood hazard maps and flood risk maps in the Republic of Croatia.

This Twinning project focused on the second phase of the Floods Directive and helped in the preparation of flood hazard maps and flood risk maps for the two selected pilot areas as well as in the preparation of six guidance documents on flood related topics and in capacity building of relevant institutions.



### Mandatory results achieved:

- ▶ Result 1: Two pilot areas selected (larger Karlovac area of the Kupa river and Neretva delta) and Pilot Project Implementation Plan and Methodology developed.
- ▶ Result 2: Mathematical hydraulic models based on collected data prepared and tested and data sets for the two selected pilot areas prepared.
- ▶ Result 3: Flood Hazard Maps and Flood Risk Maps for the two selected pilot areas prepared.
- ▶ Result 4: Six Guidance Documents on flood related topics prepared.
- ▶ Result 5: Capacity of relevant institutions strengthened in order to improve implementation of the Floods Directive requirements.

## Twinning project achievements

Over the 15 months of the project implementation period, 21 missions were successfully organised for a total of 28 project activities and three additional ones.

37 experts from the Netherlands, Austria and France contributed to the Twinning project during a total of 535 working days.

Around 130 experts from Beneficiary institutions and stakeholder institutions participated in working sessions, workshops, conferences etc.

The Beneficiary institutions experienced:

- ▶ Decision making processes
- ▶ Data collection
- ▶ Modelling
- ▶ Mapping
- ▶ Measures
- ▶ Institutional cooperation
- ▶ Stakeholder participation

### Sustainability

The project experiences, the guidance documents and the strengthened capacity will form a good basis for Croatian Waters to prepare the third phase of the implementation of the Floods Directive: the preparation of the Flood Risk Management Plans.

