



Autorità di bacino del fiume Po
Bacino di rilievo nazionale



Agenzia Interregionale per il fiume Po



Italian side event
“The Po valley compares itself with big international basins”

PO BASIN (Italy)

Giuseppe Bortone
General Director Environment, Coast and Soil Department
Emilia-Romagna Region

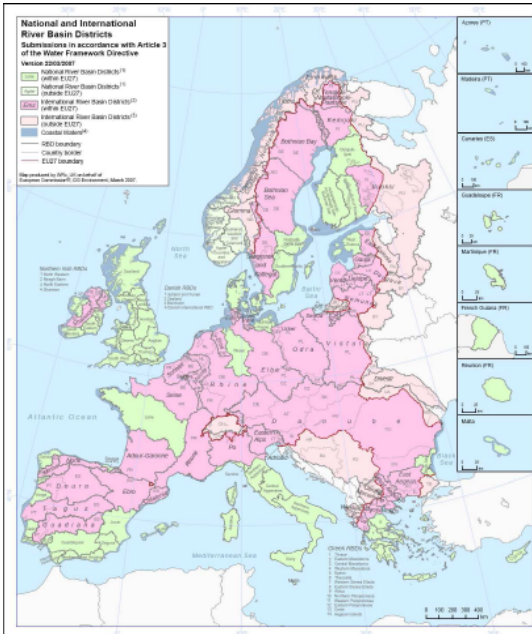
Istanbul March 18th, 2009



Regione Lombardia



REGIONE DEL VENETO

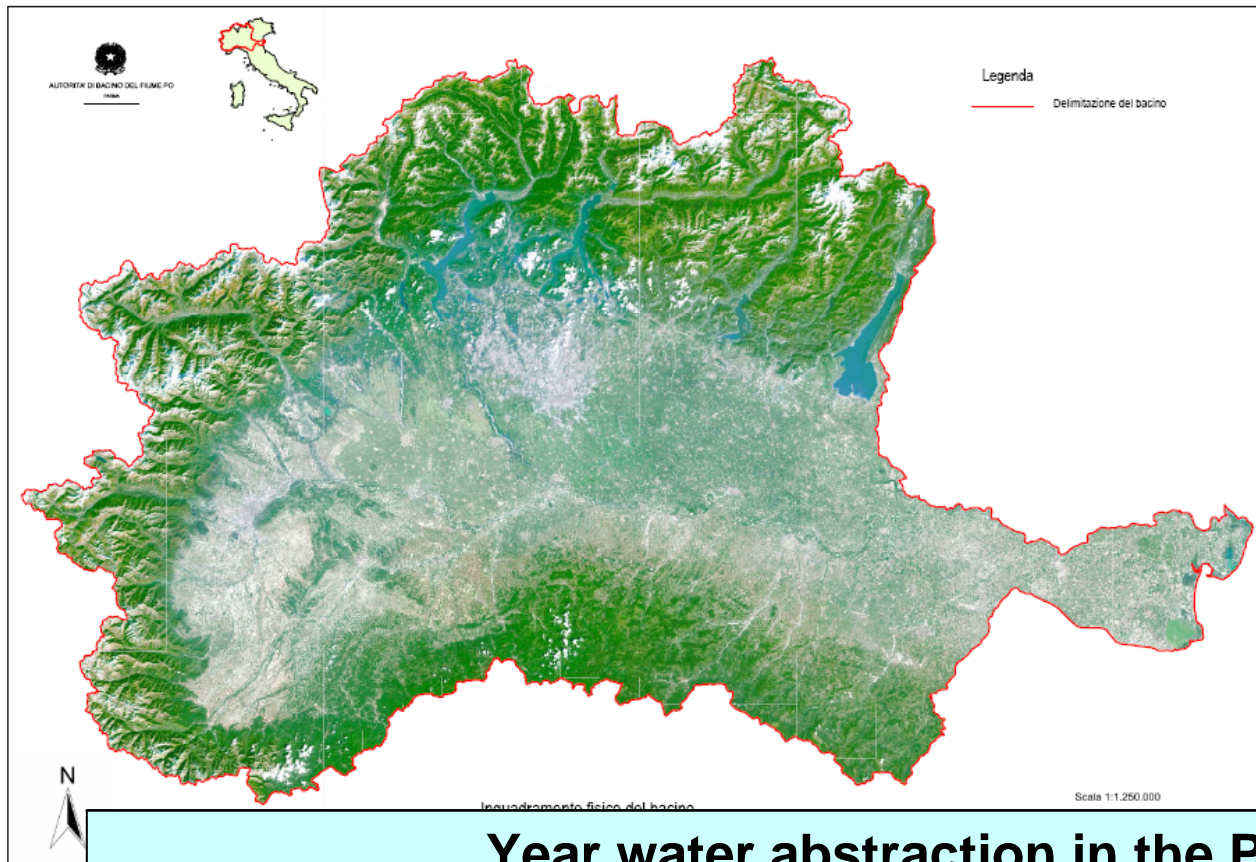


Po River: European Basin District



Lenght: 650 km	16 million inhab (1/4 of Italy) up to 1478 inh/km ²
Area: 71.000 km ²	114 milion EI (15% C, 52% I, 33% A)
Minimum Flow: 275 m ³ /s	Economy: 40% national GDP
Max flow: 10.300 m ³ /s	37% of national industries,
Avg flow: 1.470 m ³ /s	46% of employees
Average Raining: 1.108 mm	55% livestock (in 5 provinces);
Average flow: 78,0 * 10 ⁹ m ³ /anno (60%)	35% agricultural product
Year average temperature: 5 – 10 °C	48% energy consumption at national scale





**Averaged year
flow rate is
lower than water
use permits**

**1470 m³/sec
against**

1850 m³/sec

Year water abstraction in the Po River

Uses	Withdrawal Volume (10 ⁶ m ³ /year)	% Surface water	% Ground water
Drinking	2.500	20	80
Industry	1.537	20	80
Irrigation	16.500	83	17
Overall	20.537	63	37

Water scarcity and flood risks

- Even in a country with abundant water resources, as the Northern Italy.
- The problem of supplying water in the necessary quantity and quality is therefore for us one of the major challenge of the coming years
- The amount of groundwater withdrawal is greater than the input from natural resources and as a consequence the ground water level is in average decreasing and surface water uses attempt the minimum ecological flow into the rivers
- On the other hands, the risk of flooding due to uneven raining patterns and to much higher run-off, coming from ever increasing urbanised areas, is very high.

Sustainable River basin Management

- To reach the goal of sustainable development it is therefore necessary to revise actual resource use and pollution load pressure as well as we need to adopt new and more sustainable spatial planning strategies
- This means for us that the challenge for the future is the fully implementation of the European Waterframe Directive (WFD, 2000/60/EC) and the Directive on the assessment and management of flood risks (2007/60/EC)

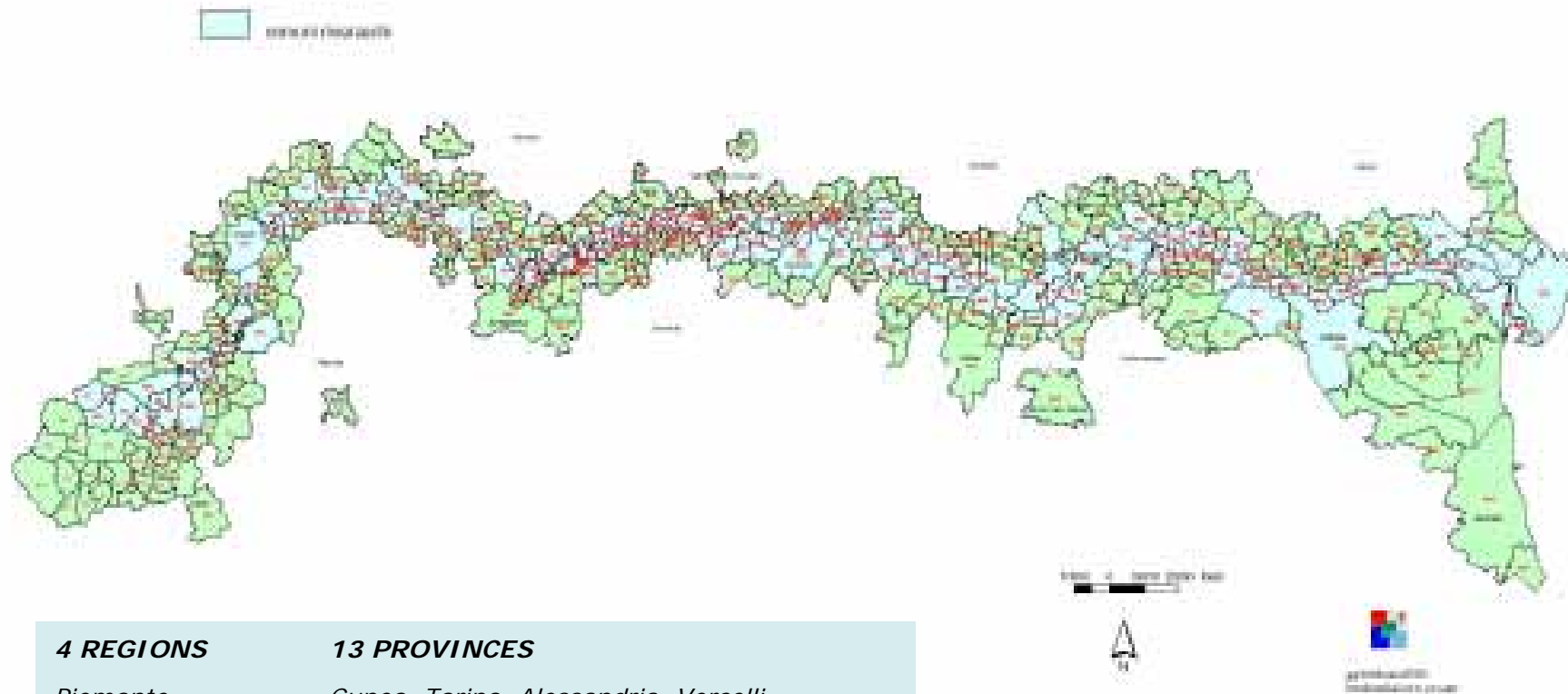
Integrated River Basin Management

- Appropriate government system represented by the Po River Basin Authorities as coordinated expression of all the administrative levels, from the State, to the regions, provinces and municipalities, that also have to ensure the participation of all stakeholders
- This institutional capacity, that in Italy started since 1989, has offered many opportunities that now we wish to exploit.
- We have a set of integrated water management plans as well as flood risk management plans already adopted in all regions of the Po river basin.
- This year 2009 all these plans will be homogenised into the integrated river basin management plan at District level according to the WFD

The Po Valley Project

- Simultaneously, we are now starting some integrated projects and, among others
- **The integrated project, named “the Po Valley**
- **The project integrates actions and measures for water quality, flood risk control and cultural and touristic systems**
- In a time frame of 6 years (2009-2015)
- 180 MEURO
- More than 60 actions

The interested area and the actors



4 REGIONS

*Piemonte,
Lombardia,
Emilia-Romagna
Veneto*

13 PROVINCES

*Cuneo, Torino, Alessandria, Vercelli
Lodi, Pavia, Cremona, Mantova
Piacenza, Parma, Reggio Emilia, Ferrara
Rovigo*

Around 490 Municipalities

Po River Basin Authorities

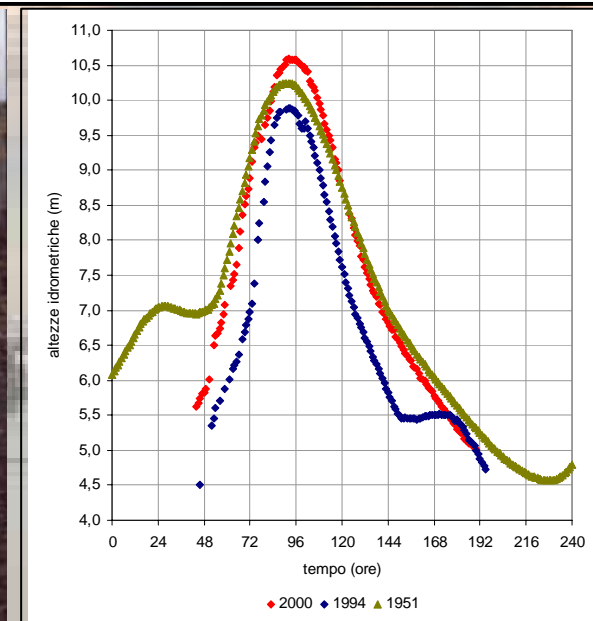
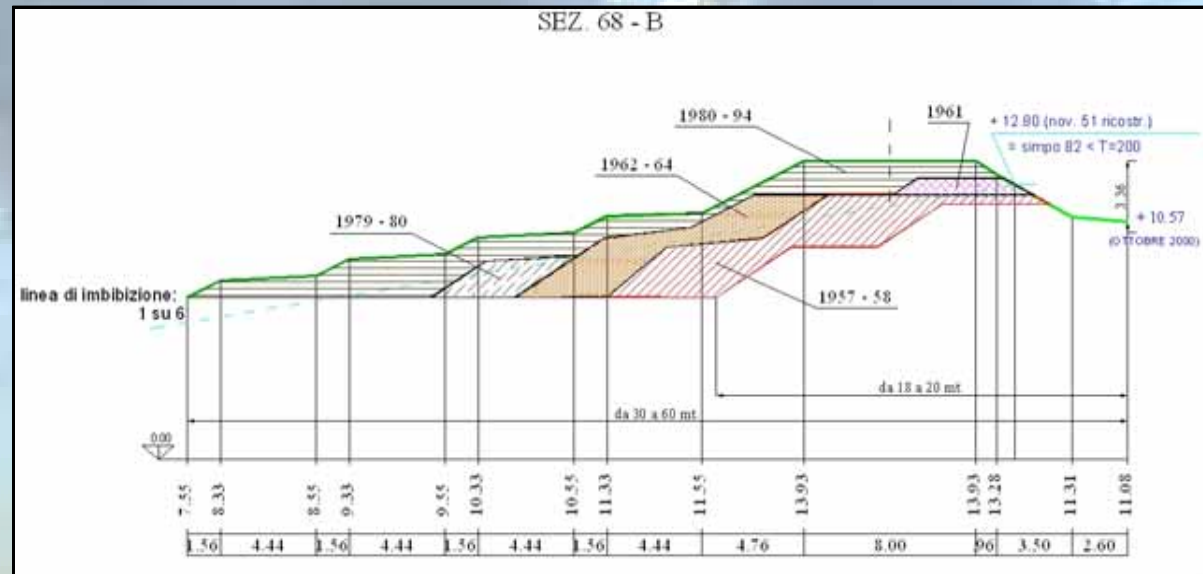
AIPO

Integrated Project objectives

1. To reduce flood risks with a view to giving rivers more space through the maintenance and/or restoration of floodplains and increasing the natural retention areas
2. To promote conservation and ecological integrity of riparian areas and to improve water quality
3. To valorize the natural and cultural heritage of the river areas, improving the sustainable use of recreational areas for the population and tourists
4. To empower the Po river governance system, improving knowledge, participation, capacity building toward a sustainable development

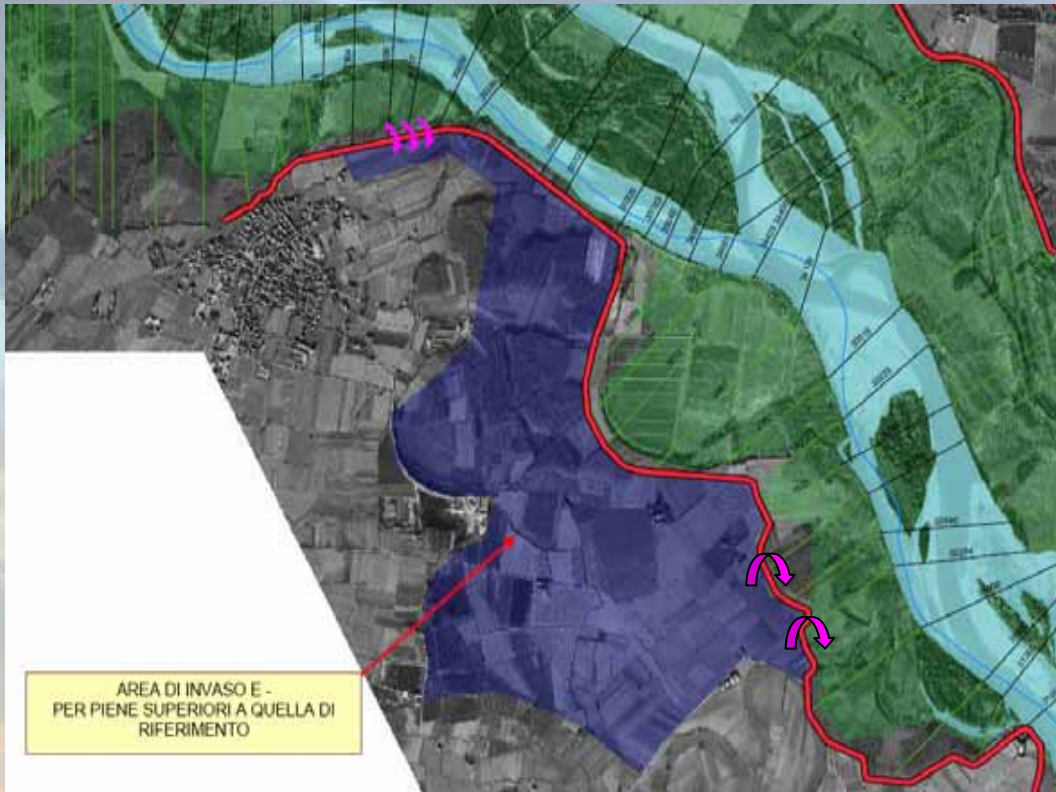
Action 1- Dike hightening and strengthening

On the basis of previous adopted Flood Risk Management Plans at river basin scale



Po river at Piacenza

Action 1 - Increasing the natural retention areas



:
Area around 4.3 km²
Around 7 Mm³



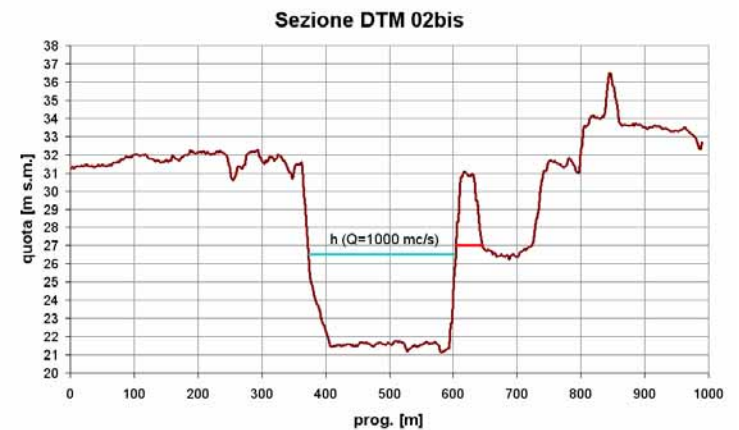
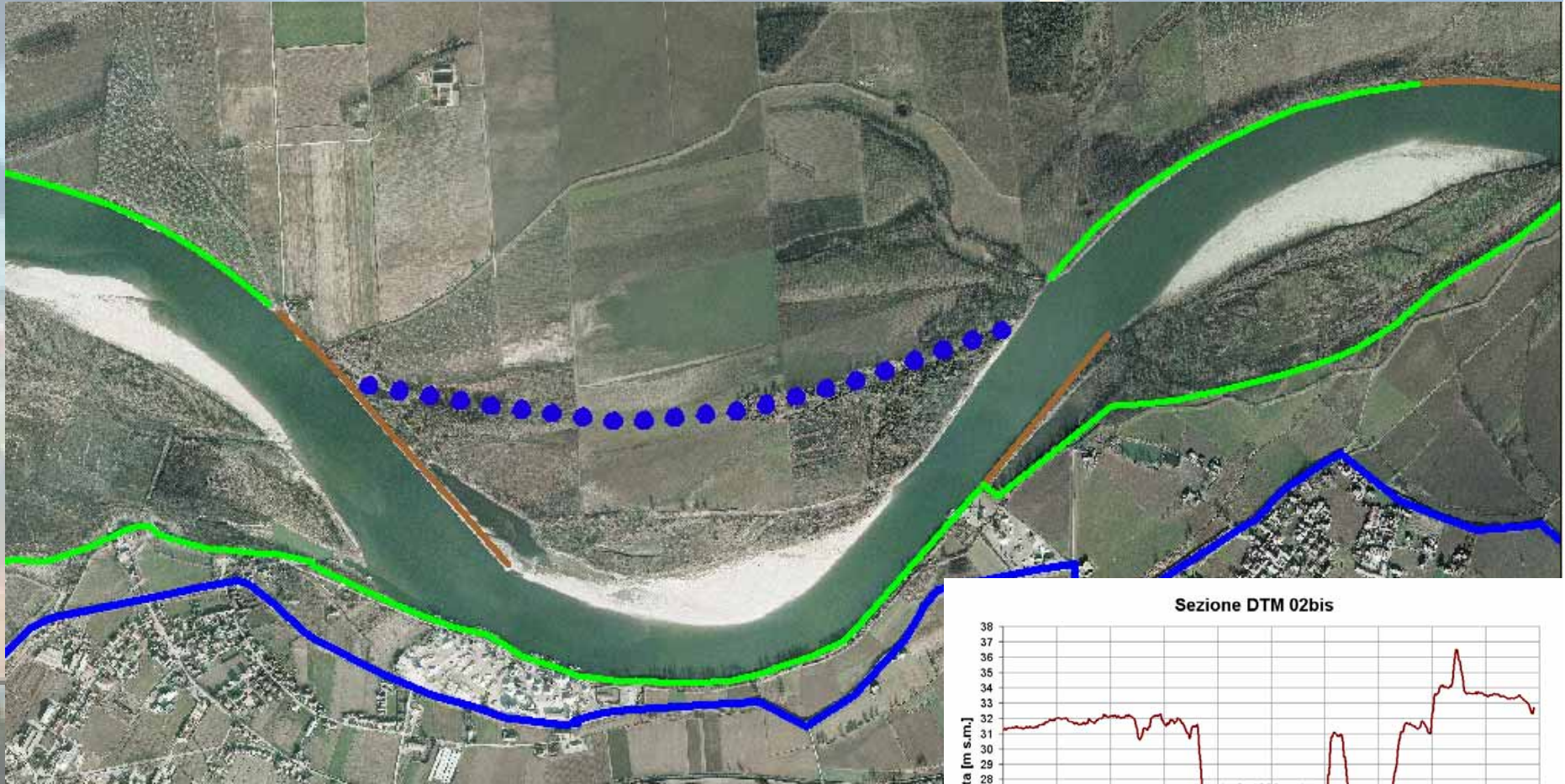
Action 1- Recovering of sediment transportation



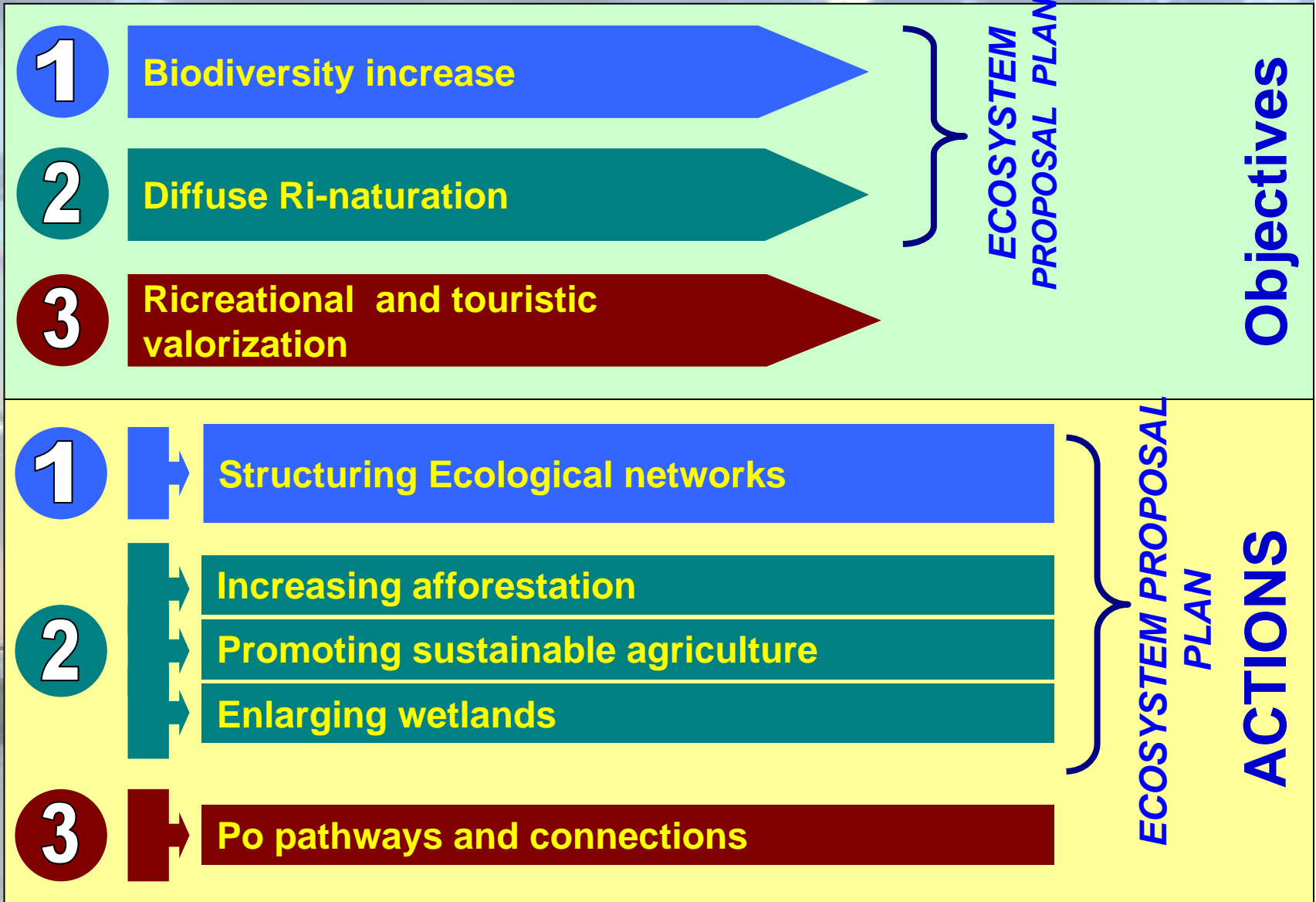
Sediment by-pass

ON THE BASIS OF THE PO RIVER BASIN MANAGEMENT GUIDE LINES

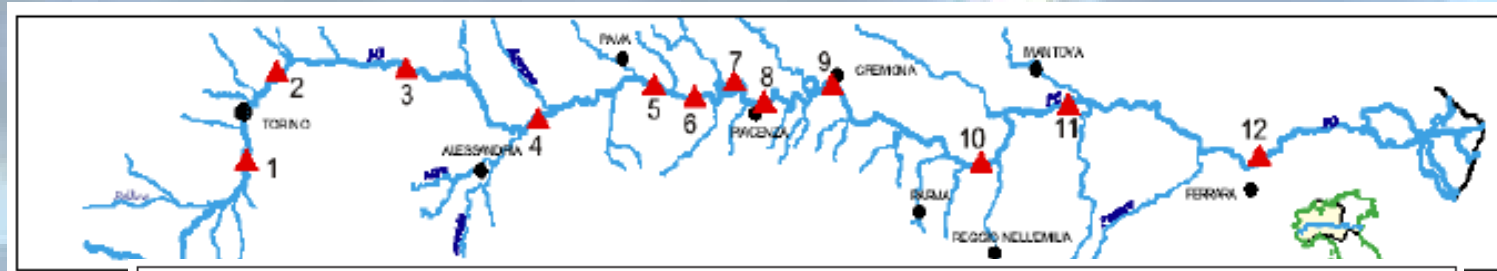
Action 1- Recovering of hydromorphological characteristics



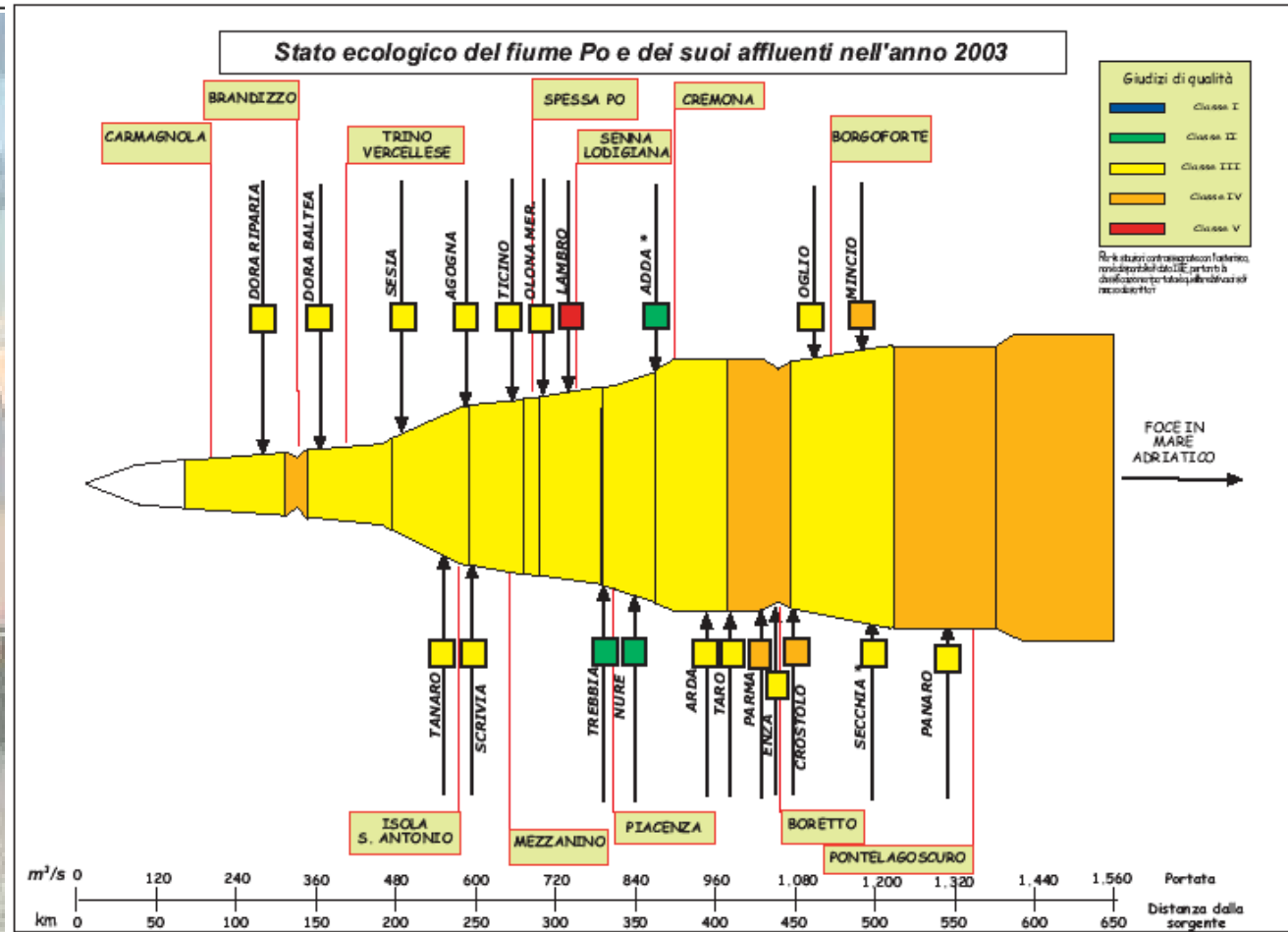
Action 2 and 3



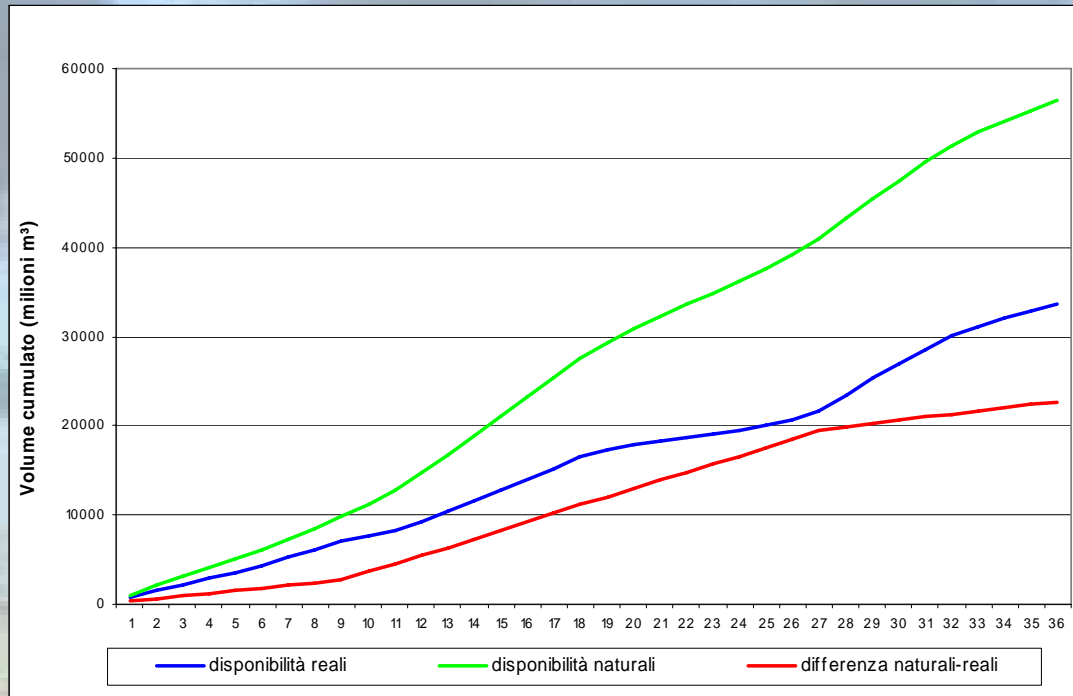
ACTION 2 - Water quality and quantity



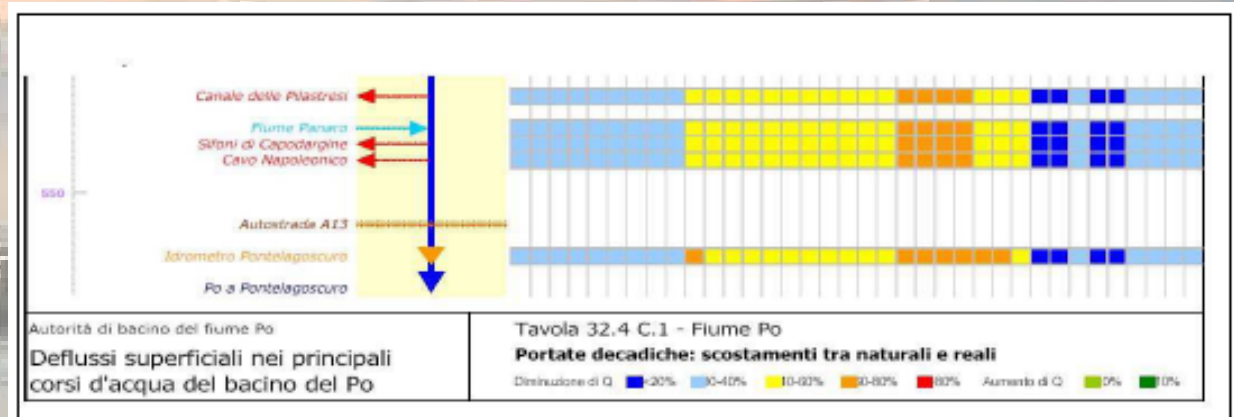
On the basis of previous adopted Water Management Plans by Regions



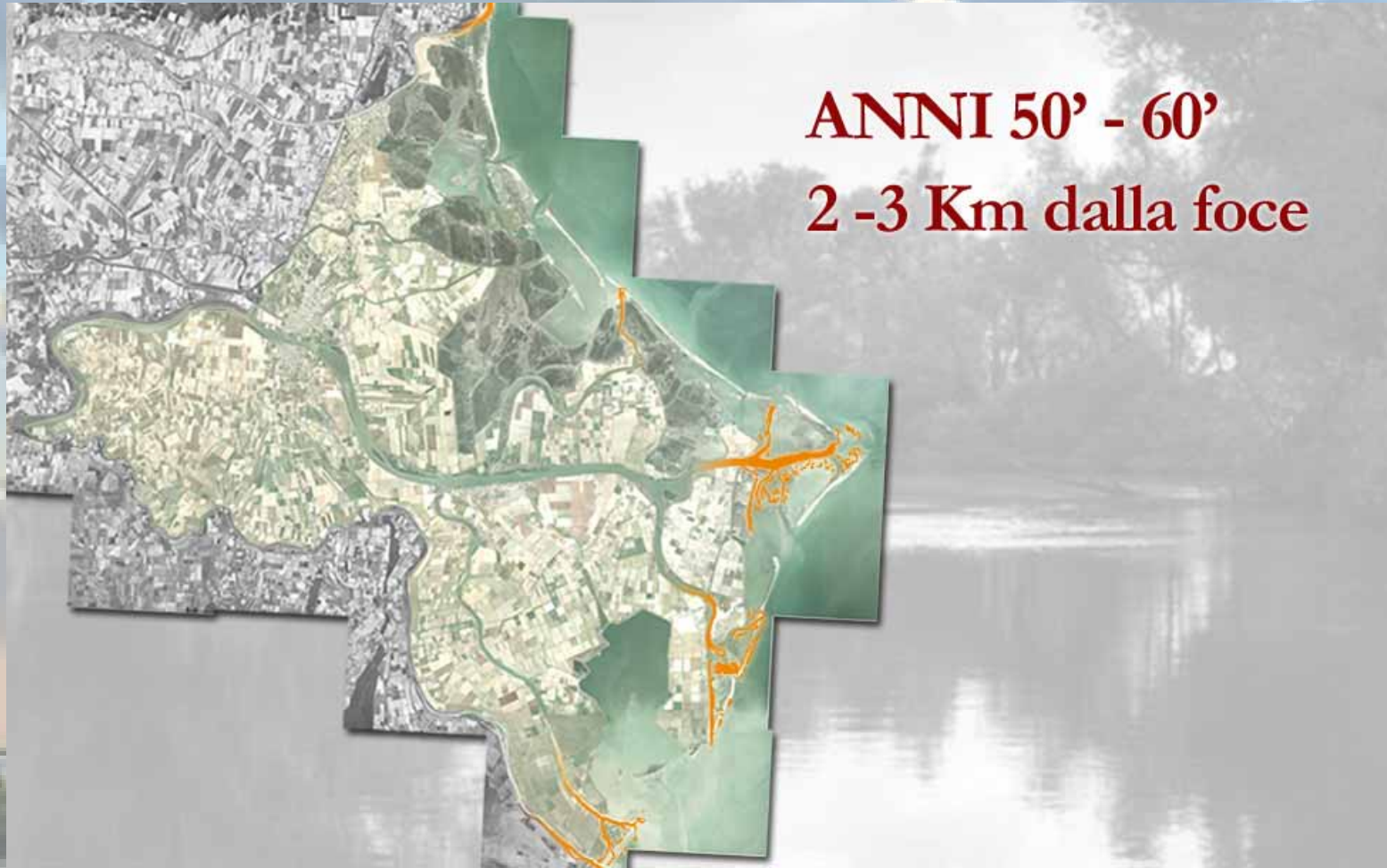
ACTION 2 – WATER QUANTITY



**ON THE BASIS OF
THE RIVER BASIN
WATER BALANCE
AND TOWARDS
WATER ALLOCATION
SCHEME
AND DROUGHT
MANAGEMENT
PROGRAMME**

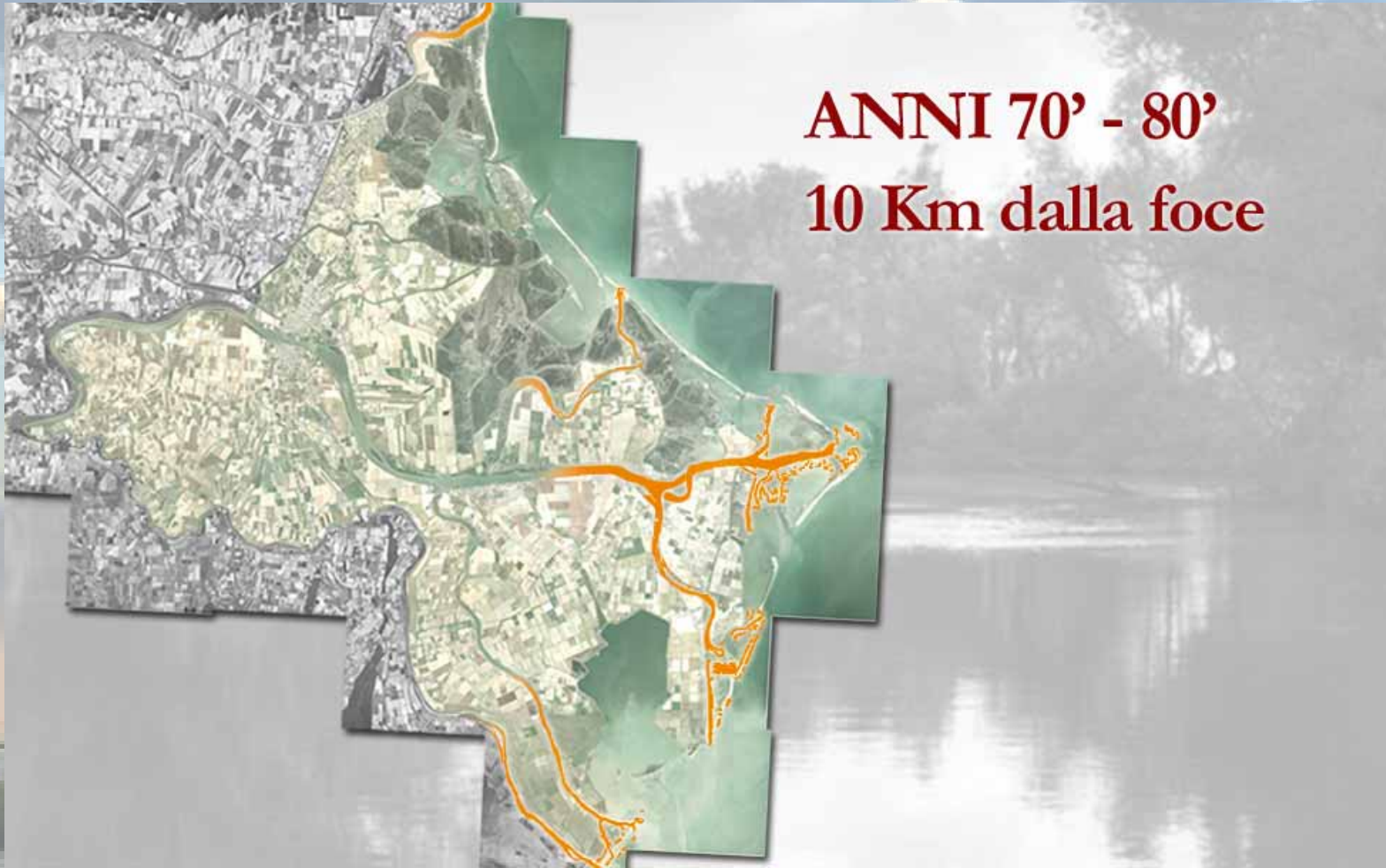


ACTION 2 - Salinization

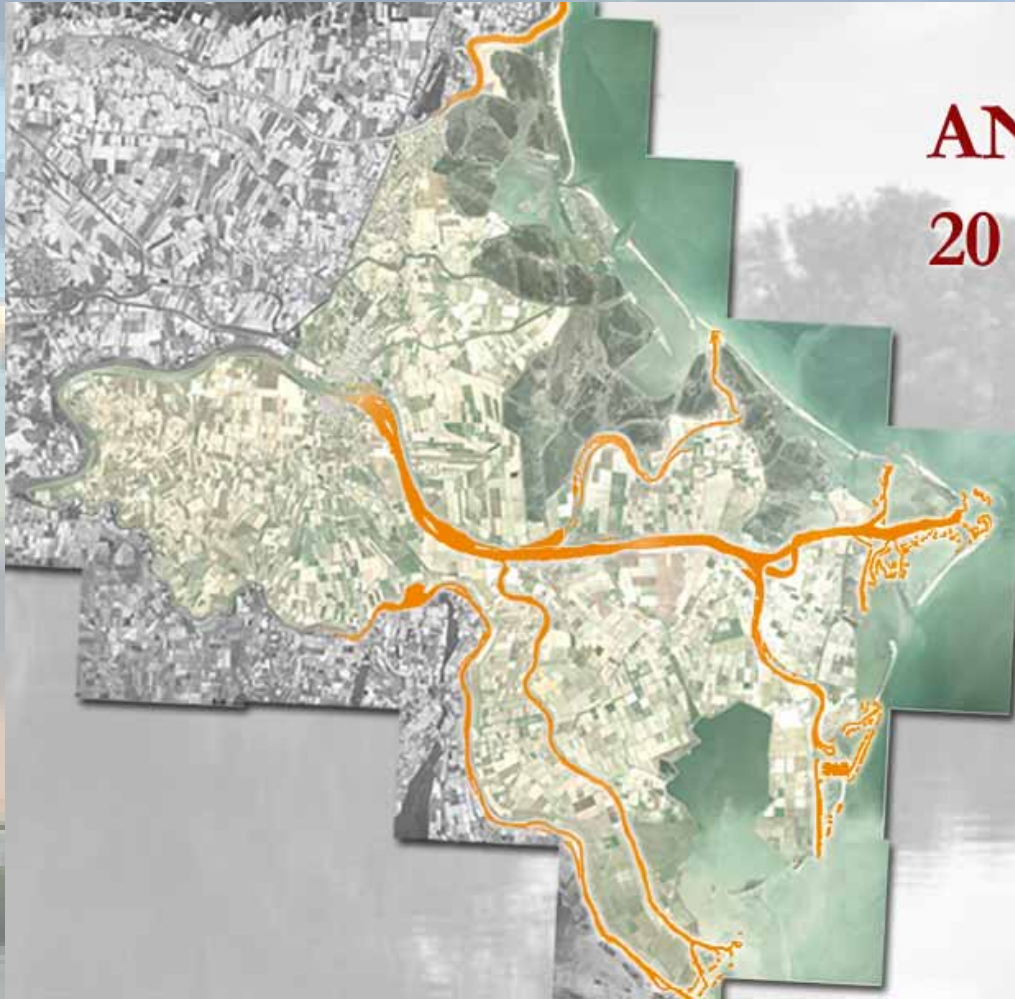


ANNI 50' - 60'
2 -3 Km dalla foce

ACTION 2 - Salinization



ACTION 2 - Salinization



ANNI 2000
20 Km dalla foce

300 km²

**Objective= 250-300 m³/s
minimum flow**

ACTION 3 - The Po river landscape

BIENNALE DEL PAESAGGIO
PROVINCIA DI REGGIO EMILIA



Liquid landscape
Project Ideas for Po river landscaping in the
Provinces of Piacenza a Reggio Emilia

International contest

4th of november 2008



ACTION 3- Biking pathway



ACTION 3 - Food and culture

Regione Lombardia
Tutte le Grandi Aree del Nord

PROVINCIA DI CREMONA PROVINCIA DI MANTOVA PROVINCIA DI PIACENZA

Il Grande Fiume
ESTATE 2005
GIORNI DI FESTA DELLA GENTE DEL PO

PROGRAMMA
dal 25 giugno al 15 agosto

Promosso dai Comuni di:

CASTELVETRO PIACENTINO
GERRE DE' CAPRIOLI • MONTICELLI D'ONGINA
MOTTA BALUFFI • PIEVE D'OLMI
POLESINE PARMENSE • ROCCABIANCA
SAN DANIELE PO • SISSA • STAGNO LOMBARDO
VILLANOVA D'ARDA • ZIBELLO

VIII EDIZIONE

Domenica 5 giugno il Po torna al centro di un'intera giornata nazionale di turismo, sport, navigazione, gastronomia dopo il crescente successo riscosso tra il numeroso pubblico delle edizioni passate: sarà come sempre un Po naturale, atletico, storico, commestibile, un Po da vivere dalle falde del Monviso all'Adriatico.

La manifestazione nazionale "Un Po per tutti" giunta quest'anno alla sua quarta edizione, è promossa dalla Consulta delle Province del Po, con iniziative che coinvolgono moltissimi paesi distribuiti lungo i 652 Km del Grande Fiume.

Nella realtà cremonese si caratterizza per la partecipazione di Comuni, Associazioni, Consorzi che propongono iniziative di grande interesse, a partire dalla XXV edizione della VOGA LUNGA SUL PO.

Provincia di Cremona

Un Po di Foreste

Una delle dieci Grandi Foreste di pianura della Regione Lombardia
Dipartimento Sviluppo Agricolo

I Comuni partecipanti:

Cremona
Gerre de' Caprioli
Motta Baluffi
San Daniele Po
Stagno Lombardo
Tornicella del Pizzo
Casalmaggiore

In collaborazione con FIAB di Cremona



Un Po per tutti

Manifestazione Nazionale
del Fiume Po

Domenica 5 Giugno 2005

Action 3 – Traditional food



**Mercato
dei Prodotti Tipici
del Po**

**Mostra Mercato
delle Produzioni Agroalimentari
del Grande Fiume**

MONTICELLI D'ONGINA (PC)

16 Ottobre 2005



INVITO

Arrivederci all'anno prossimo con ...

2005



LE PORCOLONGA
PRIMAVERA 17 APRILE 2005
AUTUNNO 18 SETTEMBRE 2005



PER INFORMAZIONI:
STRADA DEL CULATELLO DI ZIBELLO
Piazza Garibaldi, 34 - 43010 Zibello (PR)
Tel. 0524 939081 Fax 0524 939099
www.stradadelculatello.it E-mail: info@stradadelculatello.it



NOVEMBER PORK

Speriamo di sia la Nebbia!

SISSA
SABATO 6 - DOMENICA 7 NOVEMBRE
I Sapori del Maiale

POLESINE P.SE
SABATO 13 - DOMENICA 14 NOVEMBRE
Ti cuociamo Preti e Vescovi

ZIBELLO
SABATO 20 - DOMENICA 21 NOVEMBRE
Piaceri e Delizie alla Corte di Re Culatello

ROCCABIANCA
SABATO 27 - DOMENICA 28 NOVEMBRE
Armonia di Spezie ed Infusi

ACTION 4 - Governance

- Knowledge improvement
 - IRBM plan
 - Water conservation and drought contingency programme
 - Water information system
 - Local Heritage Atlas
- Research platform
- Stakeholder participation and Environmental Assessment



AVAILABLE FUNDS

ACTION 1 81 MEuro

ACTION 2 47 MEuro

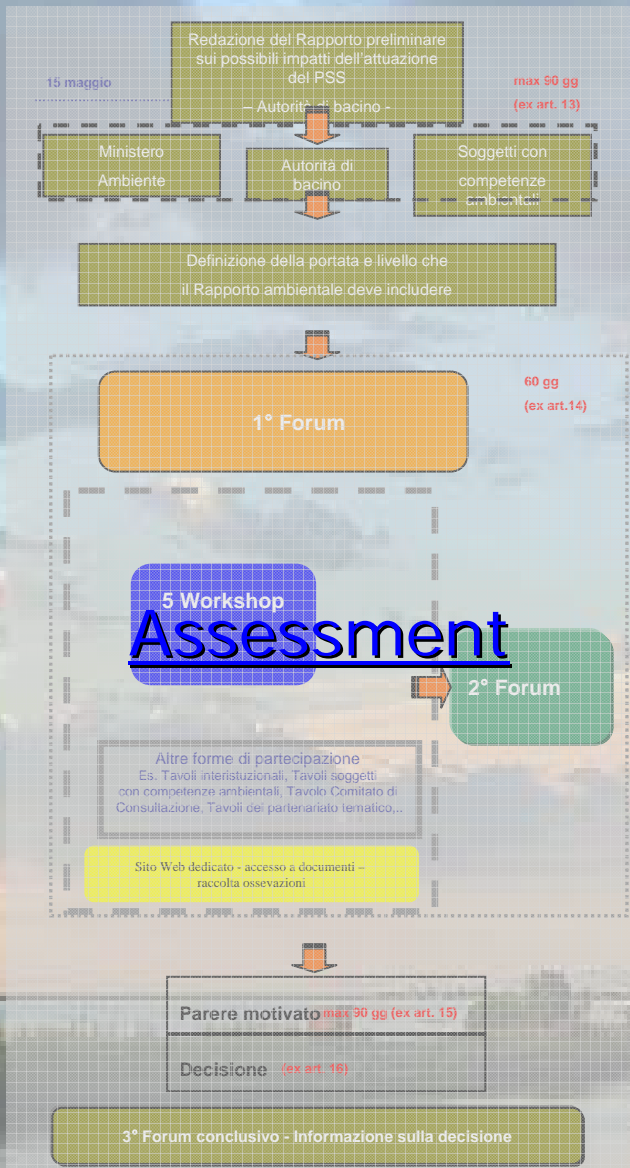
ACTION 3 39 MEuro

ACTION 4 8 MEuro

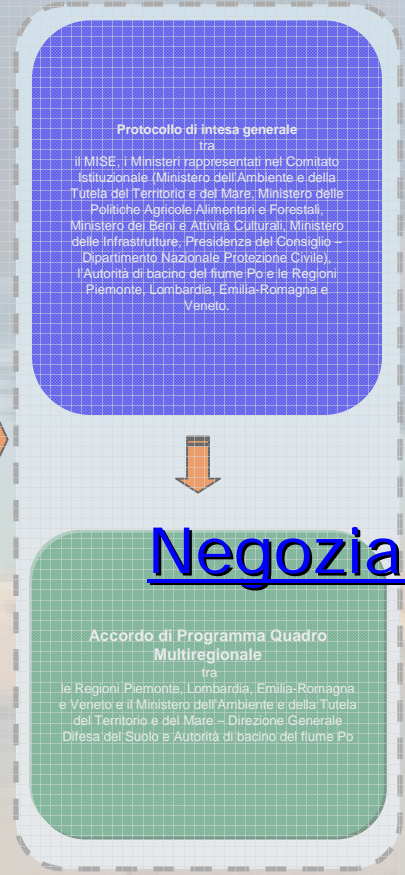
Technical as. 5 MEuro

Total 180 MEuro

2017



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DIRECTIVE 2001/42/EC ENVIRONMENTAL ASSESSMENT