



Ongoing Italian Wetland Inventory through the MedWet WIS (Wetland Inventory System) level = PMWI

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Introduction

Since November 2008, **ISPRA** (Institute for Environmental Protection and Research), **MATTM** (Italian Ministry of Environment) and **ARPAT** (Env. Agency of Tuscany), started realizing a national wetland inventory as a contribute to the MedWet/PMWI project.

Today more than 60 public authorities or administrations (Regions, Provinces, Protected Areas, National Forestry, River Basin Authorities, Regional Park Agency of Latium, ARPAs), NGO, University and research institutes (ENEA, CRA ..) are involved in the project as expert data providers

All these partners are invited to share information about wetlands values, best practices for wise use, monitoring and management of biodiversity, in order to define guidelines for wetland conservation as a contribution to the Italian and the Mediterranean strategy.

The project will be completed in **December 2010**; a broad analysis of the data of the Italian PMWI will continue until December 2011



Basic approach

The chosen tool for the inventory has been the ON-LINE WIS system provided by the MedWet/CODDE project

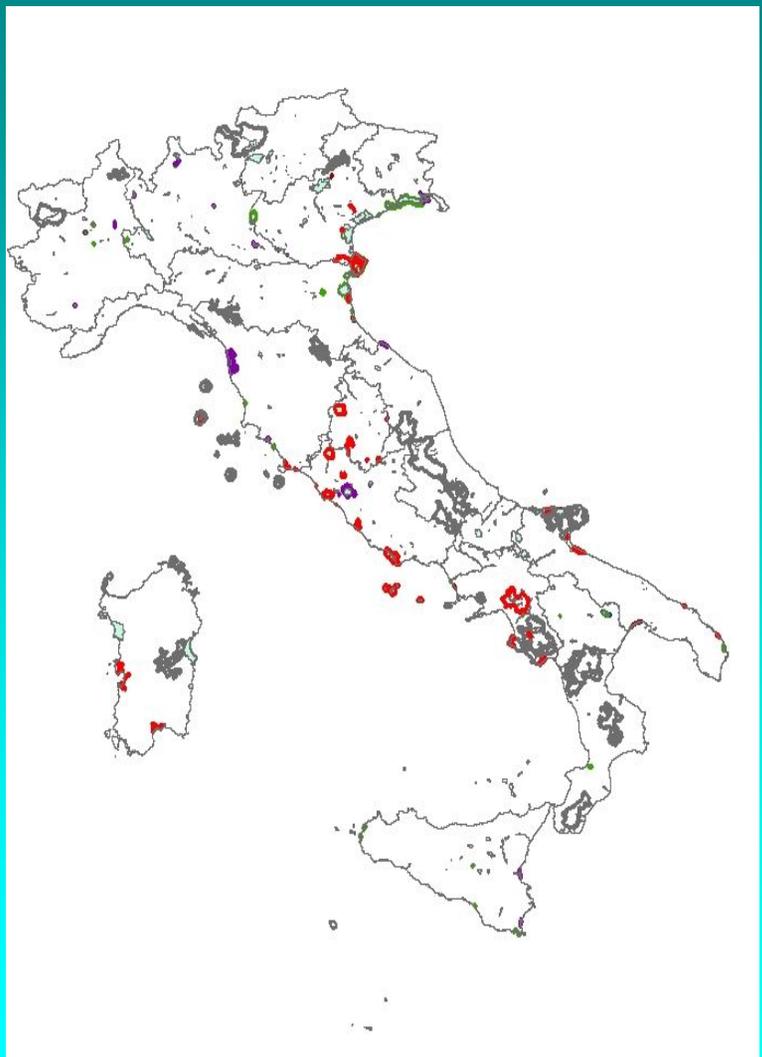
The aim of the project is to give a contribute to the MedWet/PMWI and to provide the integration of the conservation tools both of Ramsar and CBD Convention with those of Habitat and Bird Directives, WFD, and the Marine Strategy Framework Directive (MSFD)

As recommended by the Strategic Framework For Ramsar List (2009), the Italian PMWI will be a merge of many inventories already existing at different level (national, river basin, regional, provincial and local) integrated through the Nature 2000 data bank, the National Register of Protected areas, art. 6 of Water Framework Directive (WFD) of UE

The guidelines for wetlands conservation are based on case studies, previous MedWet projects shared by the representatives of administrations, institutions, University, NGOs, research institutions etc.



The National Inventory of the Env. Ministry



**Number of wetlands in the
the National Inventory**

ory
03)
3)
83
3

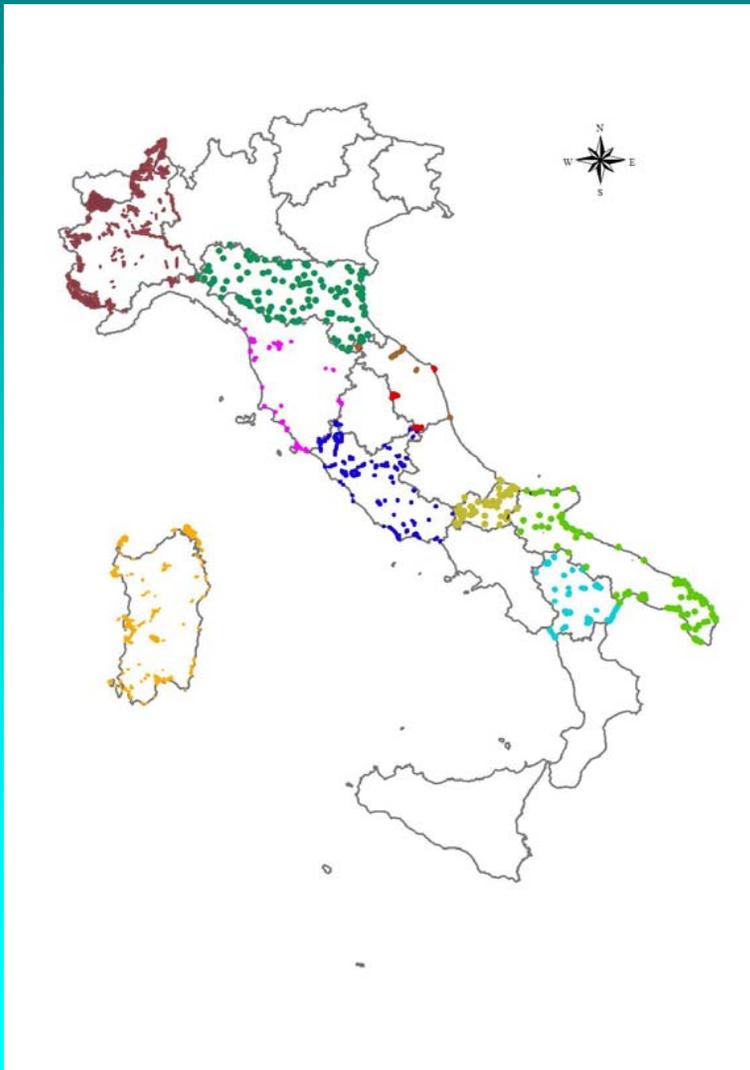
**as (36% Natural
nal Reserves)**

es)
s)

**ted areas: regional
ps, Game Reserves, ecc.**

cc.
C.

Data from the Regions



**Number of wetlands in the
Regional Inventories
(updated: april 2010)**

11 Regions

Piemonte: 80 (N2000 sites)

Friuli Venezia Giulia: 35

Emilia Romagna: 139

Toscana: 38

Marche: 41

Lazio: 80

Molise: 123

Puglia: 282

Basilicata: 35

Sicilia: 102

Tot = 875



An updated result of data merging...

- ...more data are expected from other Regions
- some N2000 sites are not included yet



Preliminary considerations

- The ecological criteria to select wetlands, according to Ramsar criteria, completely match with those considered by the *Horizontal Guidance on Wetland* of CIS, n. 12 of the WFD
- The aquatic species protected by Annex II and IV of Habitat Directive and by the Annex I of Bird Directive and the aquatic habitat of Annex I of Habitat” have been usefully used to identify the water related Nature 2000 Sites
- The Nature 2000 Site with habitat and species water related are **2078**
- The overlapping of PMWI wetlands with the protected areas for the conservation of aquatic habitat and species of the Registers of Protected Areas (WFD art. 6) give the opportunity to achieve a high level of integration between convention and UE directives as recommended by the River Basin Initiative (endorsed by the COP 5 of the CBD – Decision V/2, May 2000)
- Monitoring data outcoming WFD activities give core information on Nature 2000 sites conditions and reveal threats to species and habitat



Next Steps

a) Value of wetland :

Species and Habitat important for conservation of the water related ecosystem;

- Economic values, ecosystem services
- Social values

b) Best practices for monitoring

Plane use of WFD criteria

Bird Census

Species rarity

c) Best practices to manage ecosystem



We recommend the Pan Mediterranean Inventory project to the MedWet/COM10 as a main issue of our mandate

EKBY is now helping to follow up the refinements of the WIS so that it can be used on-line by all the Mediterranean Countries. We recommend the project to the MedWet/COM10 so that a concrete support can be given to EKBY, or who else, to follow up the completion of the Inventory at Mediterranean extension. Minor figures are necessary to follow up the needed refinements.

The WIS is accessible by every Country at the address

www.wetlandwis.net

It is now the best tool to bring to completion the Wetland Inventory at Mediterranean extension through Country contacts and cooperation

The Coordination Unit or the Mediterranean Wetland Observatory could strongly help in diffusing the use and supporting the application of this tool



Pilot project

▪ **Study area: Natural Reserve Nazzano, Tevere-Farfa (RM)** is a Ramsar site, Nature2000 site and Regional Natural Reserve in the medium Tevere valley

▪ **Aim of the project:**

experiment the inventory system of PMWI and the uses of the data bank for:

- identify **indicators** to monitoring the **status** of wetland as an integration of monitoring activities of UE Dir. (WFD, Habitat and Bird)
- identify the management measures as synergies between the planning tools of UE Dir. (Basin plan, management plan of N2000)
- identify **indicators** to evaluate the **efficacy of management** (*sensu* CBD) of the wetland from basin to local scale



Pilot project

▪Activities:

Monitoring of parameters for status of habitat (All. I HD) and species (All. II, IV, V HB and All. I BD) and for ecological status (WFD, macrophytes, macroinvertebrates, diatoms, chemical and physical)

▪Preliminaries results:

- The integration of some of monitoring schemes between WFD and HD is possible, especially for fish and Macrophytes/habitat of Annex I/species of aquatic flora of Annex II HB
- The analysis of the links between the Programme of Measures included in a RBMP and the management plans of the specific species or habitat in a water related Nature 2000 site, could give information about the possible achievement of the conservation status objectives for a considered species/habitat N2000

Tank to: Dip. “Difesa Natura” and Dip. “Acque e monitoraggio” of ISPRA, RN Tevere-Farfa, Regional Agency for Parks, ARPA Lazio, Univ. Tor Vergata (Rome), High Institute of Health (ISS), Basin Authority of Tiber river, Univ. of Tuscia (Viterbo)



Next Steps

a) Value of wetland to national level:

Evaluation of distribution Species and Habitat important for conservation of the water related ecosystem; Species rarity
Economic values, ecosystem services, Social values

b) Best practices for monitoring

Define guidelines for integration of monitoring activities of WFD, HD and BD

c) Best practices to manage ecosystem

Guidelines shared by the group of work based on the international, national and local experiences



Tanks to:

Ministry of Environment – VI Division:

ISPRA, Dip. Difesa Natura – ex INFS and ex ICRAM

All participant to the working group:

Corpo Forestale dello Stato

Region: Val d'Aosta, Piemonte, Friuli Venezia Giulia, Veneto, Emilia Romagna, Liguria, Toscana, Umbria, Marche, Lazio, Molise, Basilicata, Puglia, Sicilia, Sardegna

Provincial: Trento, Roma

Regional Agency for Environmental Protection: Val d'Aosta, Piemonte, Lombardia, Friuli Venezia Giulia, Veneto, Emilia Romagna, Liguria, Toscana, Umbria, Lazio, Molise, Basilicata, Puglia, Sicilia, Sardegna

Regional Agency for Parks of Latium (ARP)

NGO: WWF, Legambiente, LIPU

FEDERPARCHI, COORDINAMENTO PARCHI FLUVIALI

Research Institution: ENEA-Saluggia, CRA-Centro Pioppicoltura

University: Roma Tre, La Sapienza, Urbino, Molise

Bacin Authority: FVG, Po, Arno, Interregionale Marecchia e Conca, Liri Garigliano, Basilicata, Puglia e Ofanto, Sinistra Sele

National Parks: Pollino, Abruzzo, Lazio e Molise, Circeo

Regional Protected Areas: R. N. Tevere Farfa, RN Bracciano, PR Castelli Romani, R.N. Macchiatonda, R.N. Lago di vico, R.N. Lago di Fondi



Thanks for your attention