Asociace pro vodu v krajině České republiky

Czech Association for Landscape Water Management

Technologická platforma pro udržitelné vodní zdroje

CzechTechnology Platform on Sustainable Water Resources

Participation of CEE member states in the EU activities in water sector: current status and future expectations.

Jan Čermák

Brussels, May 2014

OPERAČNÍ PROGRAM PODNIKÁNÍ A INOVACE

Ministerstvo průmyslu a obchodu

EVROPSKÁ UNIE
EVROPSKÝ FOND PRO REGIONÁLNÍ ROZVOJ
INVESTICE DO VAŠÍ BUDOUCNOSTI

CURRENT STATUS
IMPACT OF PROFOUND CHANGES
TRANFORMATION PERIOD 1989-2000
MEMBER STATE EU 2004-2014

- **DISSINTEGRATION OF INDUSTRIAL AND AGRICULTURAL COMPLEXES**
- **CCA 50% DROP IN DEMAND FOR WATER BY INDUSTRY**
- **CCA 50% DROP IN WATER POLLUTION BY INDUSTRY**
- **FOCUS ON THE COMPENSATION OF PAST ENVIROMENTAL DAMAGES**
- **ENTRY OF LEADING EUROPEAN COMPANIES INTO WATER SECTOR**
- ***(VEOLIA, AQUALIA,ANGLIAN WATER)***

- **WEAKENING THE POTENTIAL OF APPLIED RESEARCH DEVELOPMENT & ENGINEERING**
- **BOOSTING ACADEMIA ,UNIVERSITIES AND BASIC INSTITUTIONAL RESEARCH**
- **INTERNATIONAL COOPERATION SWITCHING FROM EAST TO WEST INDIVIDUAL CONTACTS, RESEARCH TEAMS**
- **FINANCES GRANTED (PROJECTS,PROGRAMS,FP)**
- **NEW GENERATION OF SPECIALISTS "TRAINED AND FIT4 INTERNATIONAL COOPERATION „**

- LINKS AND DRIVING FORCES

RESEARCH-DEVELOPMENT-APPLICATION-MARKET NOT EFFECTIVE AND SUFFICIENT

- PRIVATE SECTOR LTD. IN FINANCES,PREFERABLY OWN GOAL ORIENTED SHORT TERM R&D
- GOVT.SUPPORT TO RESTART THE SYSTEM- TECHNOLOGICAL AGENCY
- TECHNOLOGY PLATFORMS TO SUPPORT THE HORIZONTAL AND VERTICAL INTEGRATION &INTERNATIONAL COOPERATION

2010

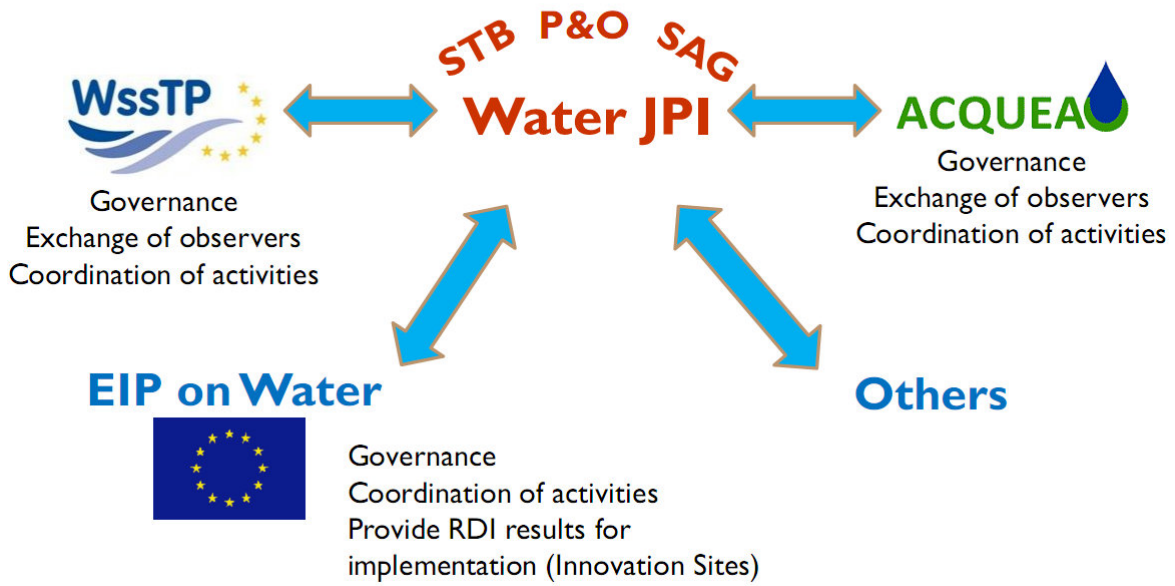
TP SWR CZ WWW.TPUVZ.CZ

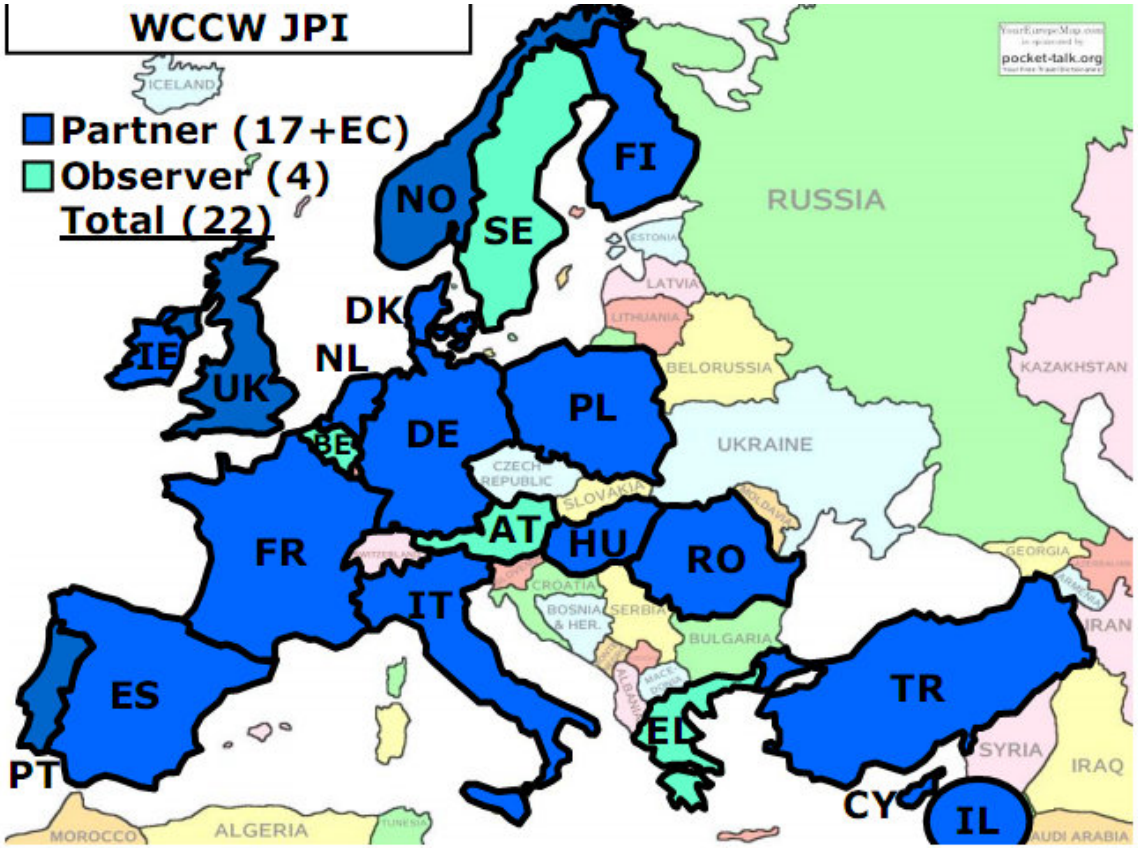
2011

MEMBER WSSTP

Networking

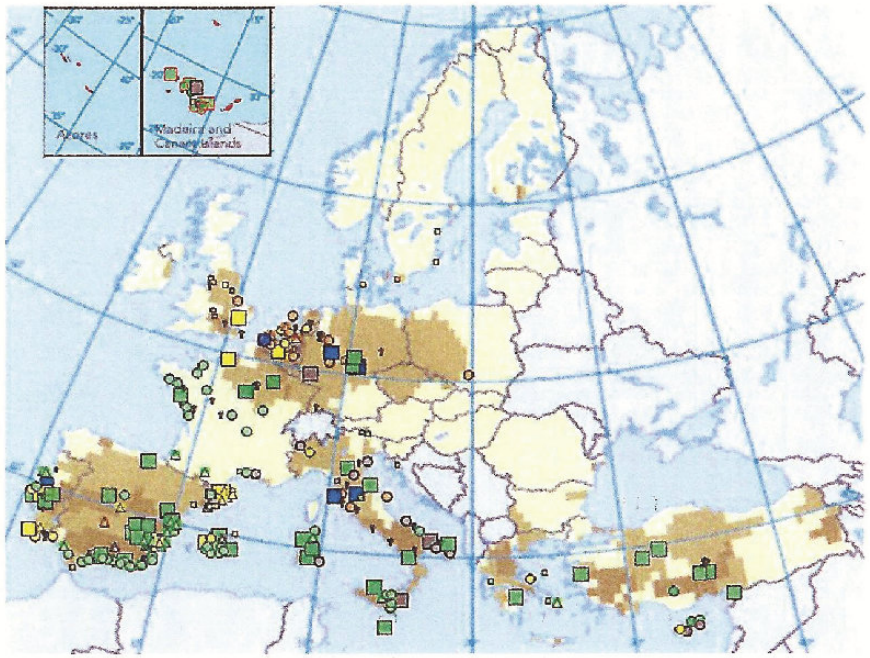
- A good position to promote synergies




WCCW JPI
Partner (17+EC)
Observer (4)
Total (22)
ICELAND
NO
SE
FI
RUSSIA
DK
NL
IE
UK
BE
DE
PL
FR
AT
HU
RO
IT
ES
PT
EL
TR
CY
IL
ESTONIA
LATVIA
LITHUANIA
BELORUSSIA
UKRAINE
KAZAKHSTAN
CZECH REPUBLIC
SLOVAKIA
GEORGIA
CROATIA
BOSNIA & HER.
SERBIA
BULGARIA
SYRIA
IRAQ
IRAN
MOROCCO
ALGERIA
pocket-talk.org

OPAKOVANÉ VYUŽÍTÍ VODY A VODNÍ STRES V EVROPĚ

WssTP
Water Reuse Working Group



Projekty opakovaného využití vody

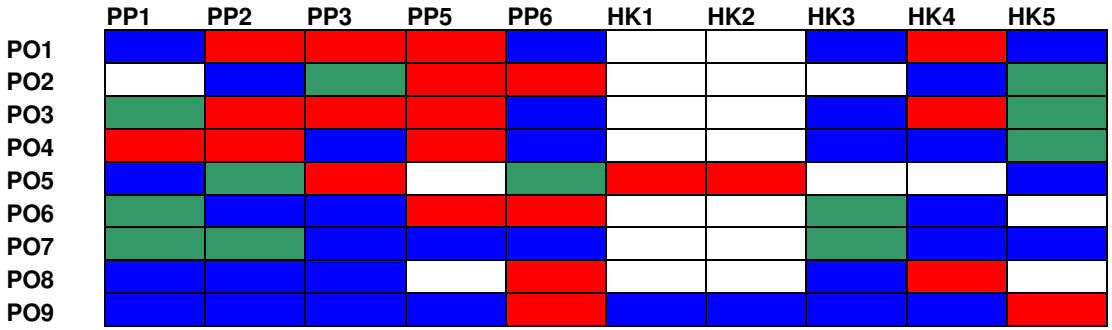
Velikost (mil.m3/rok)	Aplikace
○ <0.1	zemědělství
△ 0.1-0.5	město
○ 0.5-5	průmysl
□ >5	víceúčelový
? N/A	

Index exploatace vody kolem roku 2000 (%)

- 0-20 (nízký vodní stres)
- 20-40 (střední vodní stres)
- >40 (silný vodní stres)
- chybějící údaje

Source: Bixio et al., 2008, map EEA, 2005

COOPERATION POTENTIAL PILOT PROGRAMMES AND KEY PRIORITIES



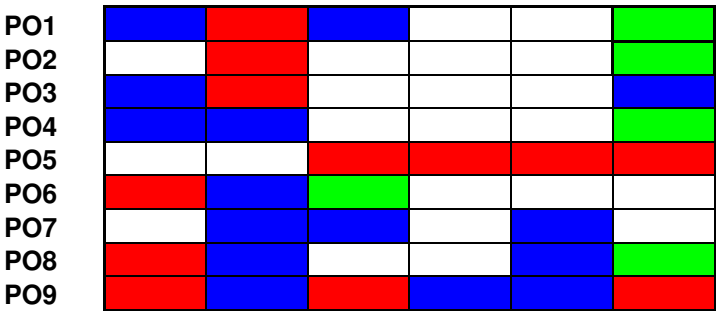
PILOT PROGRAMMES

PP1 SUSTAINABLE WATER MANAGEMENT FOR INDUSTRY
PP2 SUSTAINABLE WATER MANAGEMENT FOR AGRICULTURE
PP3 SUSTAINABLE WATER MANAGEMNET IN AND AROUND URBAN AREAS
PP4 MITIGATION OF WATER STRESS IN COASTAL ZONES
PP5 REHABILITATION OF DEGRADED WATER ZONES (SURFACE AND GROUNDWATER)
PP6 ADAPTATION FOR HYDROCLIMATIC EXTREMES (DROUGHTS AND FLOODS)

HIGHLIGHTS AND KEY PRIORITIES

HK1 LOW CARBON TECHNOLOGIES AND CONCEPTS TO PRODUCE WATER
HK2 TREAT WASTEWATER AND PROCESS WATER
HK3 BALANCE WATER SUPPLY AND DEMAND WHILE PROTECTING ACUATIC ECOSYSTEM
HK4 REDUCE ENVIRONMENTAL IMPACT ON WATER RESOURCES

HK5 LIFE CYCLE APPROACH.PROCESSES &ENVIRONMENTAL APPROACH TO LOWER ENVI IMPACT



HIGH
MEDIUM
LOW

TASK FORCES
TF1 CLIMATE CHANGE
TF2 MANAGEMENT AQUIFER RECHARGE

TF3 SENSORS & MONITORING
TF4 MEMBRANE TECHNOLOGIES FOR WATER APPLICATIONS
TF5 WATER & ENERGY
TF6 WATER REUSE

PROBLEM SETS
PO1 *Soil-water system in the landscape*
PO2 *Hydric function of the forest ecosystem*

PO3 *Groundwater management and modeling in integrated water management*
PO4 *Revitalization of water courses*
PO5 *Support of innovative technologies for drinking water supply*
PO6 *Hydrological extreme events and extreme events in the water consumption cycle*

PO7 *Risk management control methods in water management*
PO8 *Climate change adaptations strategies*
PO9 *Public training and awareness*

NEW OPPORTUNITIES

- ❑ REGIONS &CROSSSBORDER COOPERATION
- ❑ RIVER WATER BASINS LABE,ODER, DANUBE
- ❑ CEE COUNTRIES CONTACTS & ACTIONS
- ❑ SPECIALIZED WORKSHOPS AIMED TO PRESSENTATION OF GOOD PRACTICES –EG.SOIL DECONTAMINATION, WATER IN MINING AREAS ?

PRIORITIES

- HYDROCLIMATIC EXTREMES
- RETENTION OF WATER IN SOIL
- HAZARDOUS SUBSTANCES AND EMERGING POLUTANTS WATER/SOIL
- SENSORS & MONITORING, ICT IN WATER MANAGEMENT

THANKS FOR YOUR ATTENTION!