

PAWA project

"Pilot Arno Water Accounts"



2nd Stakeholder Workshop

Autorità di Bacino del Fiume Arno Florence, 2 July 2014

Agenda

10:00 - 10:15	Registration	
10:15 - 10:30	Welcome	
	Dott.ssa Gaia Checcucci, Segretario Generale Autorità di Bacino del Fiume Arno	
10:30 - 10:45	State of the Art of the PAWA project	
10100 10110	Dott. Stefano Mariani – project leader, <i>ISPRA</i>	
	Ing. Bernardo Mazzanti, Dirigente, Autorità di Bacino del Fiume Arno	
10:45 - 11:00	Approach for building water accounts	
	Ing. Eric Mino, Unità Tecnica SEMIDE	
11:00 - 11:15	Introduction on water flow diagrams for the three pilot basins	
	Carolina Cardete, Unità Tecnica SEMIDE	
11:15 – 11:30	Coffee break	
11:30 - 12-15	Exercise	
	Validation of flow diagrams	
	 Putting data item codes on each flow 	
	Known sources of data for each flow	
12:15 – 13:30	Lunch break	
13:30 - 14:15	Solution of the exercise and discussion on data gaps	
	Ing. Eric Mino, Unità tecnica SEMIDE	
14:15 - 14:45	Building SEEA-Water tables with existing data	
	Carolina Cardete, Unità tecnica, SEMIDE	
14:45 - 15:15	Discussion on potential indicators and data needed	
	Ing. Eric Mino, Unità tecnica SEMIDE	
15:15 - 15:30	Meeting closure	

Meeting languages: English/Italian

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For details please visit http://www.emwis.org/initiatives/pawa or contact pawa@isprambiente.it.



Preliminary list of indicators addressing each pilot sub-basin



List of priority indicators to be discussed during the workshop as well as data availability

Chiana (high agricultural use)

Indicator	Issue addressed
Tons of pollution generated (BOD5) per unit of physical	Pollution intensity
agricultural output (for instance, tons of wheat produced) and	
per unit of value added.	
Total of P and N removed and target.	Treatment efficiency
Water resources available and Total volume of ground and	Exploitation
surface water abstracted for water agricultural uses as a	
percentage of the total monthly renewable volume of	
freshwater.	
GDP derived from agriculture and total GDP per sub-basin.	Important irrigation abstraction
Agricultural GDP per [m3] water used and employment.	Water productivity ratios
Total agricultural abstractions and total abstractions for	Agricultural withdrawals
industry, services, etc.	

Bisenzio (high industrial use)

Indicator	Issue addressed
Tons of pollution generated (BOD5) by industry and per unit of value added.	Pollution intensity
Groundwater abstraction vs. groundwater recharge	Exploitation: fluctuations on groundwater abstraction
GDP derived from industry and total GDP per sub-basin.	Important industrial water abstraction
Industry GDP per [m3] water used and employment.	Water productivity ratios
Total industrial abstractions (for own use or for distribution) and total abstractions for agriculture, services, etc.	Industrial withdrawals

Pisa (high groundwater abstraction)

Indicator	Issue addressed
Total monthly volume of groundwater abstracted for water uses as a percentage of the total <u>monthly</u> renewable volume of freshwater.	Exploitation: Important groundwater abstraction
Groundwater abstraction vs. groundwater recharge.	Exploitation: Fluctuations on groundwater abstraction
Specific water quality test meant to evaluate salinity at the pointed aquifer.	Aquifer saline intrusion

All

Indicator	Issue addressed
Water discharged, reuse and water losses.	Increase effectiveness of water
	supply
Relative water stress index: DIA/Q	Water stress
D: domestic water demand	
I: industrial	
A: Agricultural	
Q: Renewable freshwater resources	
Index of total water use, population and GDP per sub-	Water use productivity
basin/province.	

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