

16th January 2023



PRIMA A INFO DAY 2024

Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

Marco Orlando – PRIMA project Officer

Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

CHALLENGE

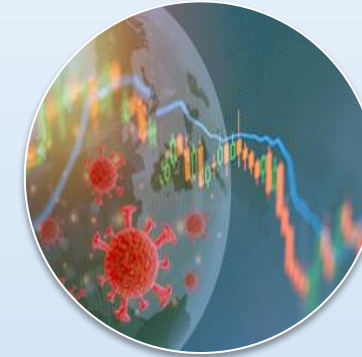
- *Issues in the MED area*



water scarcity/shortages and depletion, worsened by climate change impact



high water demand/competition leading to conflict among users and sectors



external shocks (pandemic, war in Ukraine) disrupting water, food, energy systems



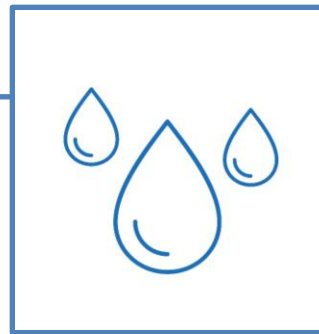
weak water policies, planning, investment, and allocation

Shared understanding of the state of water resources among stakeholders needed to identify problems and solutions (incl. at transboundary / international level)

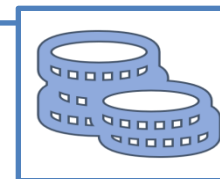
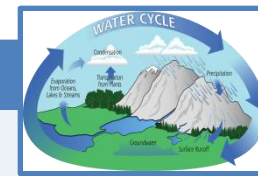
Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

SCOPE

Water accounting → gathering, analysis & communication of info related to water flows, fluxes, stocks, and consumption (FAO, 2016)



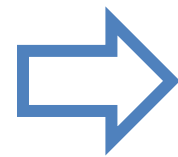
- changes in the hydrological cycle
- water availability variations caused by climate (floods, droughts) and other types of shocks
- demand of the different users and access to the resource
- investments needed in water infrastructure, etc



- **Essential water management framework in times of crisis**
- Allows for accurate analyses, informed **decision-making** and better **governance**



Key to understand important aspects like



Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

SCOPE

- Proposals should consider the following activities in their DEMO SITES:

Real-time monitoring, new technologies and data sources	⇒	<i>Provision of accurate info on water availability and use</i>
Define sustainable withdrawal and consumption levels diff. sectors/ users (including ecosystems)	⇒	<i>Sustainability: matching between available resources and natural recharge patterns</i>
Multi-scale (from local to regional) biophysical analyses, climate studies, modelling	⇒	<i>Delivery of robust quantitative estimates of water balance components (water accounts)</i>
Multi-actor networks to share knowledge gathered	⇒	<i>Improved water decision making and governance</i>
Awareness-raising to promote water accounting/ shared understanding of water resources state	⇒	<i>Proper water use and discourage illicit practices</i>
Economic tools (use-cost-price scenarios, insurance programs, etc.) in water accounting	⇒	<i>Improved pricing mechanisms, regulations and users' willingness to pay</i>

Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

EXPECTED IMPACTS



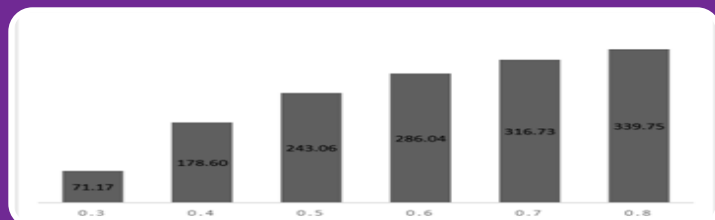
Transparent decision-making, equitable water allocations to users (especially more vulnerable), sectors, preserving efficiency and productivity



Adoption of sustainable strategies to address water scarcity in different biophysical, societal contexts



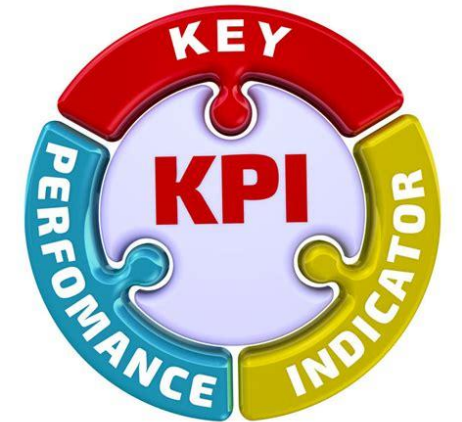
Improvement of water security, resilience and preservation of environmental flows



Better sustainability of water supply services considering water accounts and footprints

Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

KEY PERFORMANCE INDICATORS



Sustainable Water Scarcity Strategies KPI

of existing sustainable strategies adopted within the project

Transparency and Equity in Water Allocation KPI

% improvement in transparency/equity in water allocation

Water-Related Risk Reduction and Resilience KPI

% reduction in water-related risks identified and addressed

Water Productivity and Awareness KPI

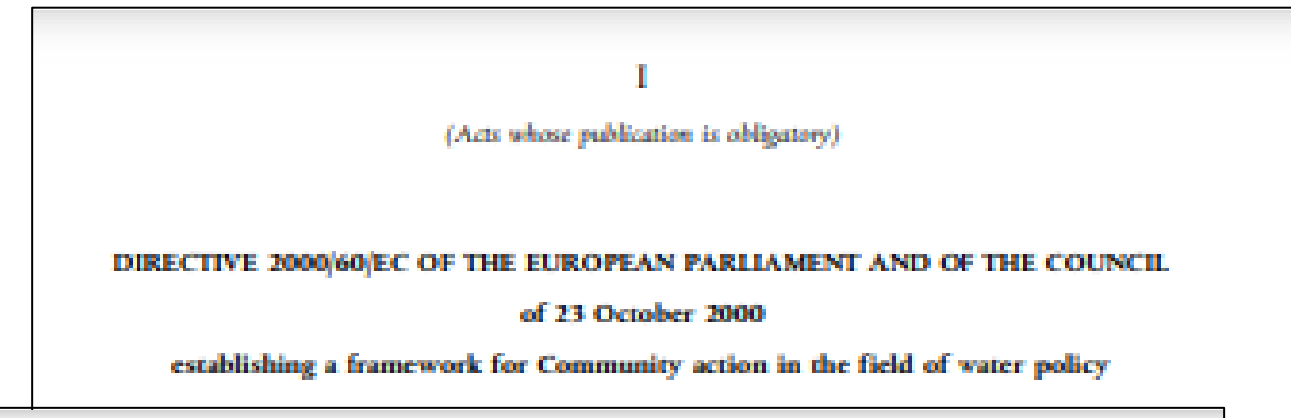
↑ water productivity in relation to the reference situation



Topic 2.1.1-2024 (RIA) Effective water accounting approaches under crisis conditions: climate change and external shocks

LINKS WITH SDGs, EU Policies, HE Mission and Partnerships

- SDG 6: Clean Water and Sanitation
 - SDG 12: Responsible Consumption and Production
 - SDG 13: Climate Action
 - SDG 14: Life Below Water
 - SDG 15: Life on Land
-
- Proposals should indicate linkages to relevant EU policies, objectives in the context of the **European Green Deal** and relevant **Horizon Europe Missions, Partnerships**





PRIMA A INFO DAY 2024

Thank you

Marco Orlando, PRIMA Project Officer

| 16th January 2023

www.prima-med.org

@PrimaProgram

