Technologies for Water Recycling and Reuse in Latin American Context:

Assessment, Decision Tools and Implementable Strategies under an Uncertain Future



FP7 - ENV.2011.3.1.1-1

Final publishable summary report Figures and Tables

December 2015

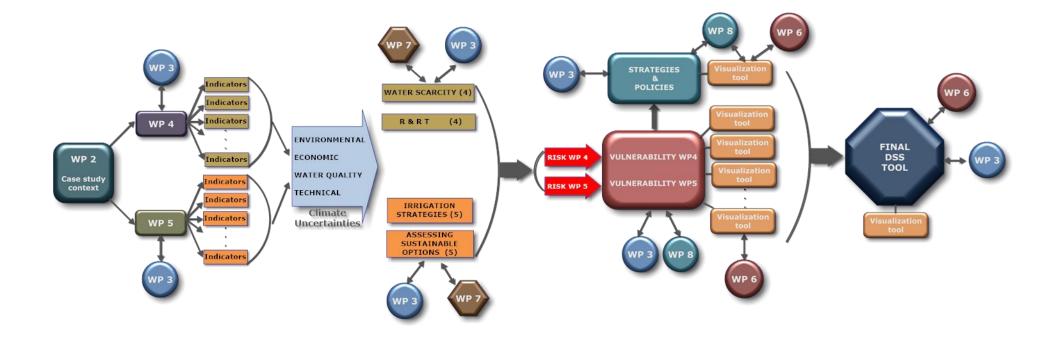


Figure 1. Interrelationship between the Project WPs leading to the Conceptual representation of the work plan.

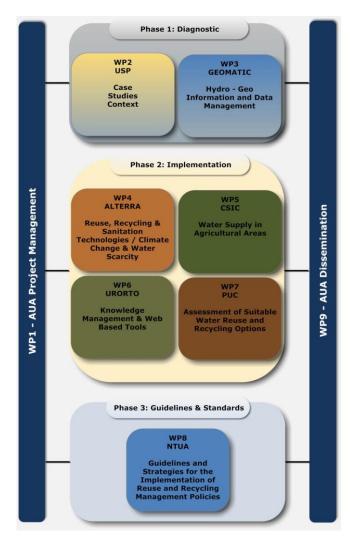


Figure 2. Interrelationship between the Project WPs including WP coordinators and participating partners.

Table 1. The main results of the COROADO project and their components

Main Results	
Web – Service Toolbox	D1.2 and D9.2
Scientific Workshops	D2.1, D2.3, D1.3 and D9.3
Design and development of the web-based DSS	D6.2
Components	
Geographical database design and Web GIS system development	D3.3
Development and application of a web-based geographical tool	D4.2
Report on a tool for assessing change of irrigation practices due to water scarcity and climate change	D5.3
Tools and instruments for supporting decision-making for water R&R scenarios and strategies	D7.2
Guidelines of Management Strategies and Policies on Reuse and	D8.3

Recycling Technologies	
Project Web portal	MS2
Manual of Indicators	Internal Report (WP4, WP5 and WP1)
Vulnerability Indices	Internal Report AUA and D8.1

Table 2. Dates of the workshops

Case Studies (Beneficiary)	First Series of Workshops	Second Series of Workshops
Brazil (USP)	June 27, 2012	September 26, 2014
Chile (PUC)	August 8, 2012	October 27, 2014
Argentina (UC)	August 31, 2012	October 27, 2014
Mexico (TDC)	July 5, 2012	October 16, 2014

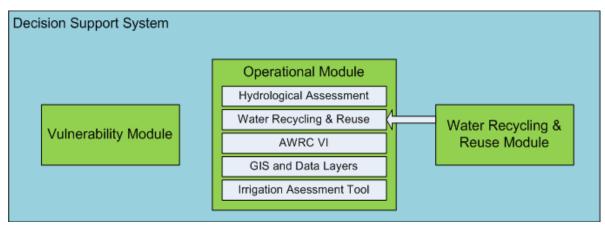
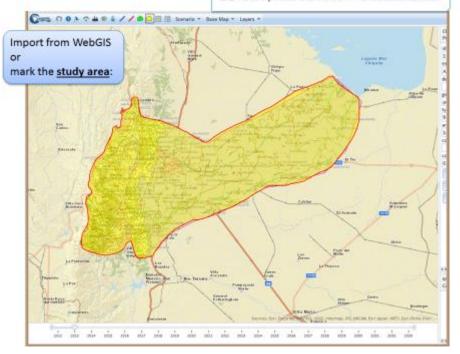
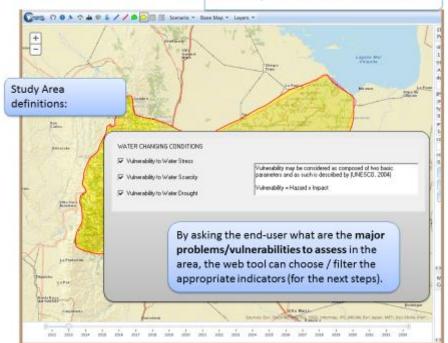


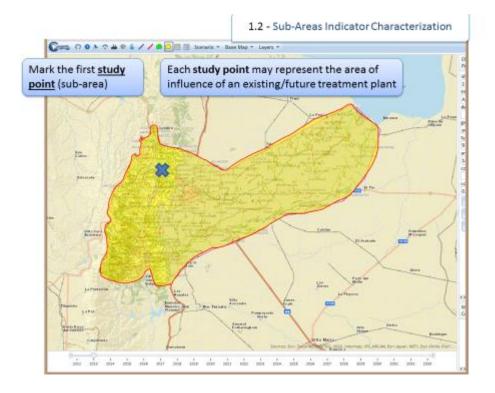
Figure 3. COROADO DSS structure

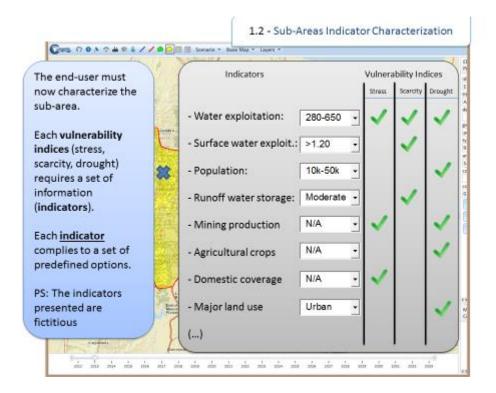
1.1 - Study Area Definition + Characterization

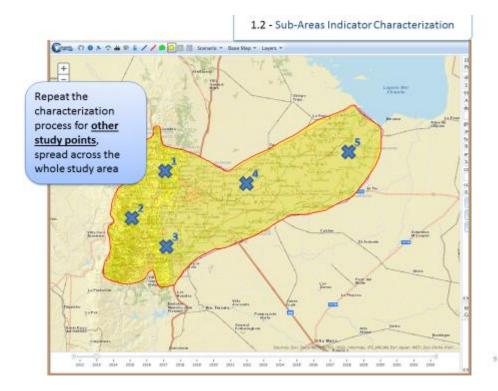


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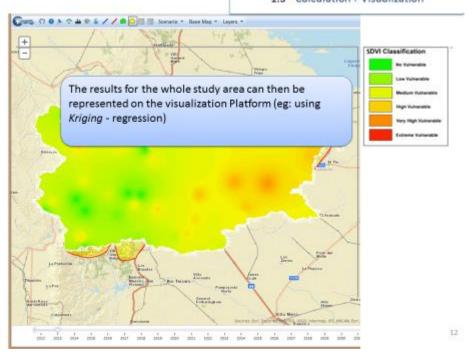




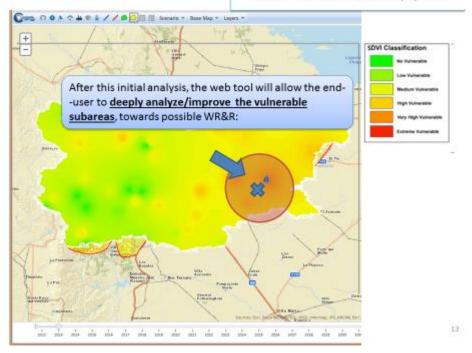




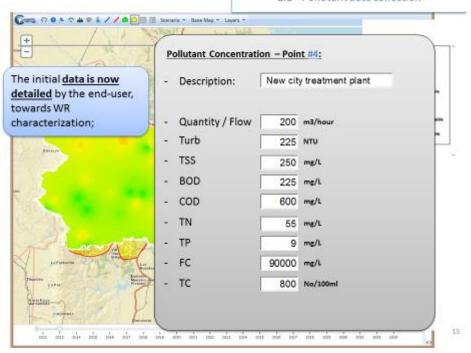
1.3 - Calculation + Visualization

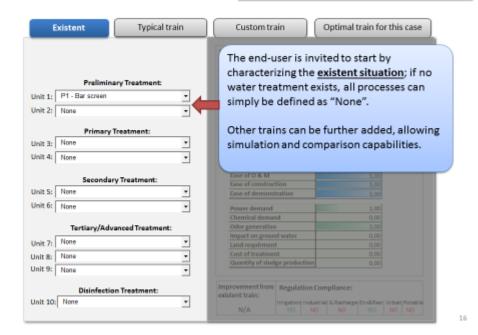


2 - WR&R Evaluation and Policy options

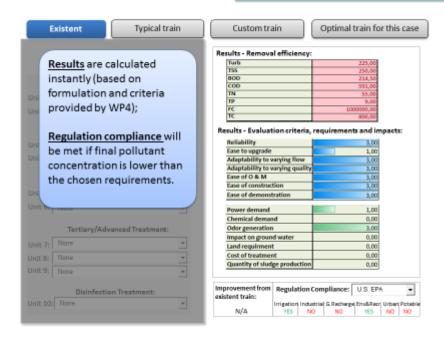


2.1 - Pollutant data collection

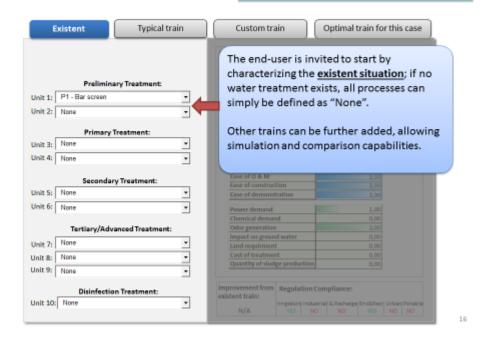




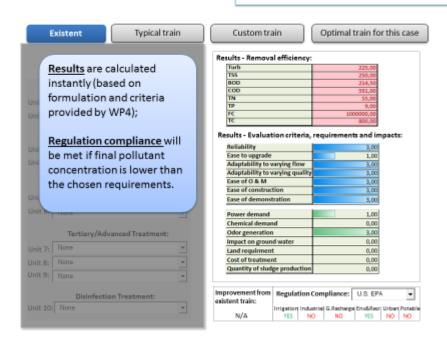
2.2 - Treatment Train selection/simulation



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Existent Typical train Custom train Optimal train for this case After definition of the existent treatment Soil Treatment High Quality train, the end-user can now start simulating Only disinfection possible alternatives towards WR&R Local MBR Unit 1: P1 evaluation; Unit 2: P3 Lagooning Direct membrane fil A list of several typical trains (provided by Case study Parrow Unit 4: Norm WP4) can be available, allowing comparison and study baselines; Secondary Treatment: Unit 5: S1 - Activated sludge with secondary sed Unit 6: None Tertiary/Advanced Treatment: Unit 7: T3 -P-Precipitation Unit 8: T4 - Denitrification Unit 9: T13 - Soil-aquifer treatment (SAT) Disinfection Treatment:

2.2 - Treatment Train selection/simulation

Figure 3.1.DSS screens progressively portraying the procedure of the application.

Unit 10: None

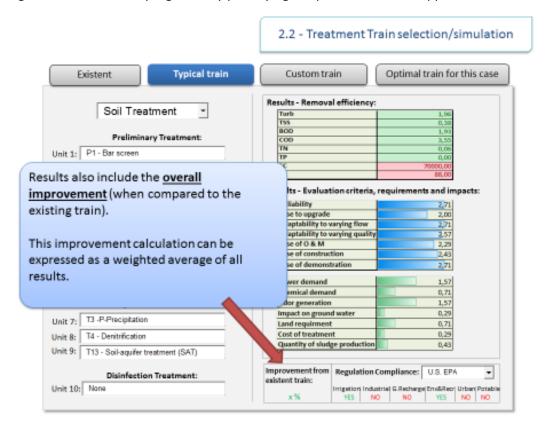


Figure 3.2.DSS screen portraying results for a typical (basic) application.

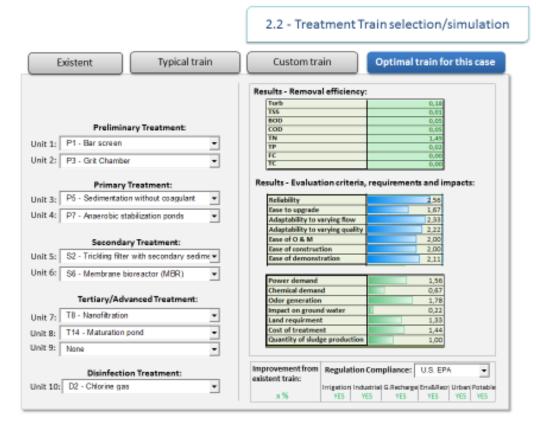


Figure 3.3.DSS screen portraying results for the optimum (most appropriate) application.

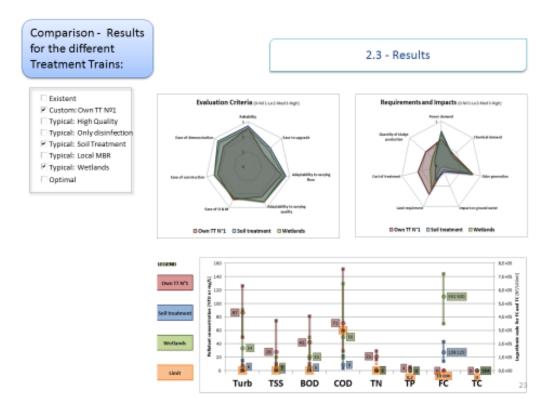


Figure 3.4. DSS screen portraying comparative results for the various treatments application.



Figure 4. The COROADO Website

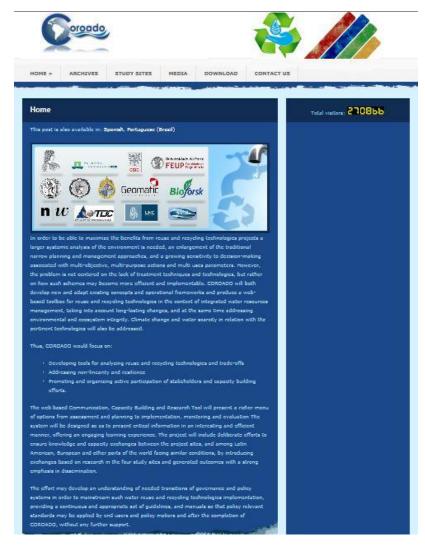


Figure 5. The COROADO Dissemination Site

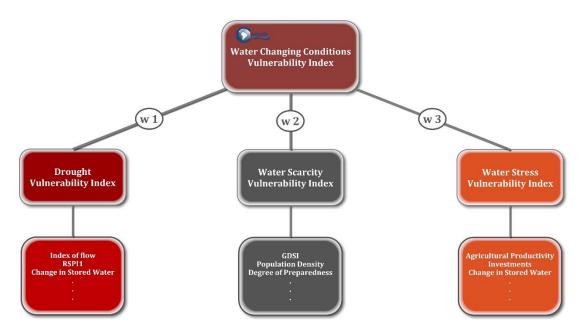


Figure 6. Schematic Procedure of the development of the Indices