

Project Summary

Effective natural and man-induced disaster management needs to be addressed through a complex preparedness-response-mitigation-rebuild cycle to be implemented at different and synergic levels in the ADRION countries. The MUHA project will connect the observed and modelled hazards and risks related to the integrated water cycle with the existing and improved coping capacity developed by national, bilateral and EU Civil Protection Mechanisms, following the rationale defined by the Sendai Framework. Four water related risks will be addressed, regarded as components of one single complex water system prone to different hazards: accidental pollution, flooding, drought and failure of critical infrastructure due to earthquakes. Current status of water system and multi-hazard anticipated scenarios must result in complex disaster response mechanisms. The MUHA rationale is based on the necessity to effectively link different aspects of the water cycle in an improved response system, which will integrate functions of the analysis, forecasting and incident command systems, to be integrated in Common Alerting Protocols, thus enabling efficient transnational response. The interconnected role of water utilities through the water safety plans and civil protection mechanisms is crucial and currently not sufficiently harmonized. While the involved countries have already developed own different planning and response mechanisms at different levels, MUHA is expected to produce a long-term robust networking, based on a joint transnational management to address the common challenges of water-related response to hazard. Moreover, the definition of common action plans, methods and tools to be implemented in pilot actions are expected to improve response time and effectiveness of the coping capacity developed by national, bilateral and EU Civil Protection mechanisms.

INFORMATION

Call
ADRION - SECOND CALL FOR PROPOSALS - PRIORITY AXIS 2

Project Acronym
MUHA

Programme Priority
2) Sustainable Region

Specific objective
Enhance the capacity in transnationally tackling environmental vulnerability, fragmentation, and the safeguarding of ecosystem services in the Adriatic-Ionian area

Start - End Date
2020-03-01 - 2022-08-31

Total budget
EUR 2,396,858.00

MUHA- MULTIHAZARD FRAMEWORK for WATER RELATED RISKS MANAGEMENT



ΜUHA Διαδικτυακή Ημερίδα
23 Φεβρουαρίου 2022
Ελλάδα



Πανεπιστήμιο Θεσσαλίας, Τμήμα Πολιτικών Μηχανικών
Αναστασία Παπαδοπούλου



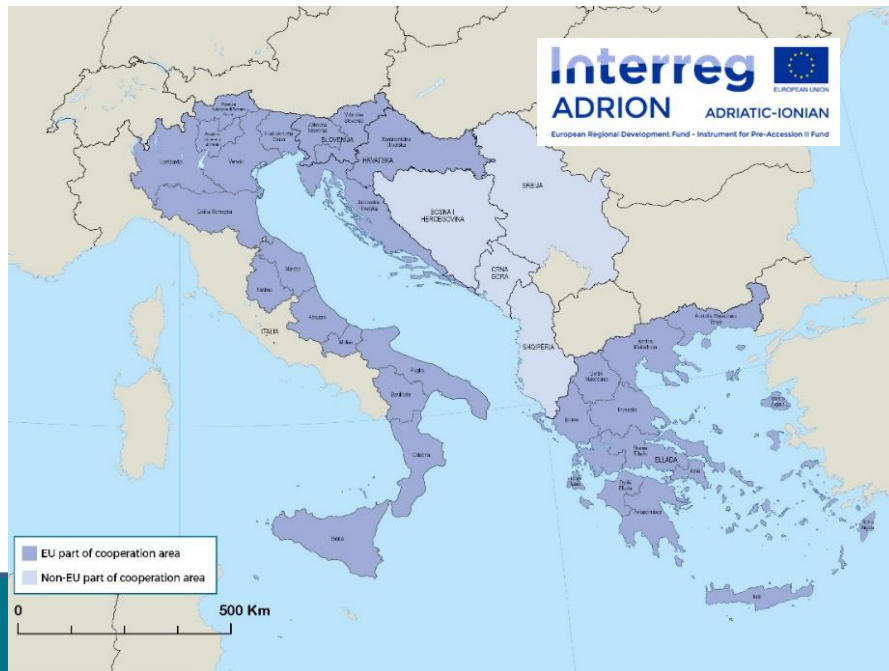
UNIVERSITY OF
THESSALY

❑ ΑΞΟΝΑΣ ΠΡΟΤΕΡΑΙΟΤΗΤΑΣ 2 → Βιώσιμη Περιφέρεια. Διατήρηση, προστασία, προώθηση και ανάπτυξη της φυσικής και πολιτιστικής κληρονομιάς.

❑ ΕΙΔΙΚΟΣ ΣΤΟΧΟΣ 2.2 → Ενίσχυση της ικανότητας διεθνούς αντιμετώπισης της περιβαλλοντικής τρωτότητας, του κατακερματισμού και της προστασίας των υπηρεσιών του οικοσυστήματος στην περιοχή της Αδριατικής-Ιονίου

❑ ΘΕΜΑ 3 → Διαχείρισης και πρόληψη φυσικών και ανθρωπογενών κινδύνων

Π/Υ 2.396.858,00€ (01.03.2020 – 31.12.2022)



Ανάπτυξη και ενοποίηση υφιστάμενων διακρατικών συστημάτων, διαδικασιών και συστημάτων έγκαιρης προειδοποίησης για την πρόβλεψη, τη διαχείριση και την πρόληψη φυσικών και ανθρωπογενών κινδύνων (δασικές πυρκαγιές, πλημμύρες, βιομηχανικά ατυχήματα, ξηρασίες, καταιγίδες, διάβρωση λόγω σεισμών κ.λπ.) ειδικά σε συντονισμό με τον Ευρωπαϊκό Μηχανισμό Πολιτικής Προστασίας

ΕΤΑΙΡΙΚΟ ΣΧΗΜΑ

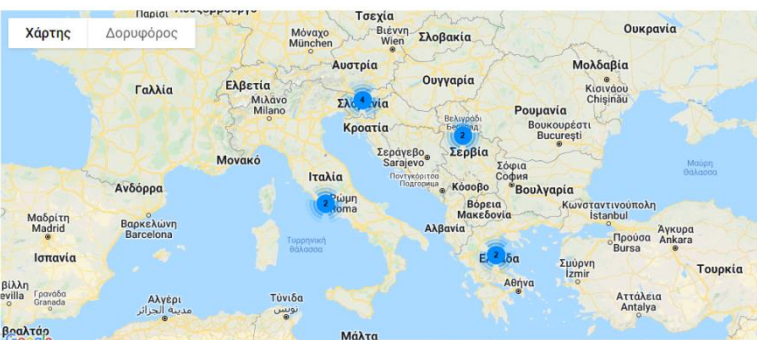


- ❑ Επικεφαλής Εταίρος: CNR-IRSA
- ❑ 10 Εταίροι (8 ERDF: CNR, UL, HGI-CGS, IVB, KAMNIK, UTH, DEYAL, DPC; 2 IPAI: JCI, PUC)
 - 5 ερευνητικά ινστιτούτα (CNR, UL, JWCI, HGI-CGS, UTH-SAFR)
 - 1 εθνικός φορέας (DPC)
 - 1 τοπικός φορέας (KAMNIK)
 - 3 επιχειρήσεις ύδρευσης (IVB, NIKSIC, DEYAL)
- ❑ 13 Συνεργαζόμενοι Εταίροι “associated partners”

PROJECT PARTNERS

- PP Civil Protection Department of the Italian Presidency of the Council of Ministers
- PP CROATIAN GEOLOGICAL SURVEY
- PP Jaroslav Černi Water institute
- PP Municipal Water Supply and Sewerage Company of Larissa
- PP MUNICIPALITY OF KAMNIK
- PP PUBLIC UTILITY “VODOVOD I KANALIZACIJA” NIKŠIĆ
- PP UNIVERSITY OF LJUBLJANA
- PP University of Thessaly-Special Account Funds for Research
- PP WATER UTILITY OF ISTRIA FOR THE PRODUCTION AND DISTRIBUTION OF WATER

Project partnership



National Research Council of Italy



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



Občina Kamnik



University of Ljubljana



VODOVOD
NIKŠIĆ



ISTARSKI VODOVOD d.o.o.
ZA PROIZVODNJU I DISTRIBUCIJU VODE, BUŽET. SV. IVAN 8



HRVATSKI GEOLOŠKI INSTITUT
CROATIAN GEOLOGICAL SURVEY

ΔΟΜΗ ΕΡΓΟΥ



Μάρτιος 2020

Δεκέμβριος 2022

1 ^η Περίοδος	2 ^η Περίοδος	3 ^η Περίοδος	4 ^η Περίοδος	5 ^η Περίοδος
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ΔΙΑΧΕΙΡΙΣΗ ΕΡΓΟΥ (Επικεφαλής Εταίρος: CNR-IRSA)

MAIN GOAL: PROVIDING GUIDELINES FOR IMPROVED WATER SAFETY PLANS

IMPLEMENTATION ON THE PILOT ACTION AREAS FOR IMPROVED WATER SAFETY PLANS

RELATIONSHIP WITH MAIN ACTIVITIES FROM WORK PACKAGES

ΠΕ Τ1 – Διαδικασίες εκτίμησης πολλαπλών κινδύνων (Επικεφαλής Εταίρος: UL)

ΠΕ Τ2 – Πιλοτικές Δράσεις (Επικεφαλής Εταίρος: IVB)

ΠΕ Τ3 – Στρατηγική – Σχέδια Δράσης (Επικεφαλής Εταίρος: UTH-SAFR)

ΕΠΙΚΟΙΝΩΝΙΑ (Επικεφαλής Εταίρος: HGI-CGS)

WPT1

Collection of specific information from the testing phase of the WASP-DSS tool on the pilots action areas.

WPT2

Using WASP-DSS tool, action plans and methods will help in the development of table-top exercises for improved WSS reliability. The exercise will result in an action plan for improvement of the emergency plan.

WPT3

Improved Water Safety Plans and certain situation in water utilities will be supported by a harmonized action plan, methods and tools in the Adriatic-Ionian area addressing water-related response to floods, droughts, accidental pollution and earthquakes.

ΥΛΟΠΟΙΗΣΗ
ΠΑΚΕΤΑ ΕΡΓΑΣΙΑΣ



ΠΕ Τ1 - ΔΙΑΔΙΚΑΣΙΑ ΑΞΙΟΛΟΓΗΣΗΣ ΠΟΛΛΑΠΛΩΝ ΚΙΝΔΥΝΩΝ



ΒΑΣΙΚΟΣ ΣΤΟΧΟΣ → ανάλυση της υφιστάμενης κατάστασης ως προς την εφαρμογή σχεδίων διαχείρισης κινδύνων για το νερό και ασφάλειας για πλημμύρες, ξηρασίες, τυχαία ρύπανση και αστοχίες υποδομών λόγω σεισμού

- ❑ υφιστάμενη κατάσταση υλοποίησης ΣΑΝ
- ❑ υφιστάμενες δομές πολιτικής προστασίας



Κατευθυντήριες οδηγίες για την ανάπτυξη
βελτιωμένων ΣΑΝ

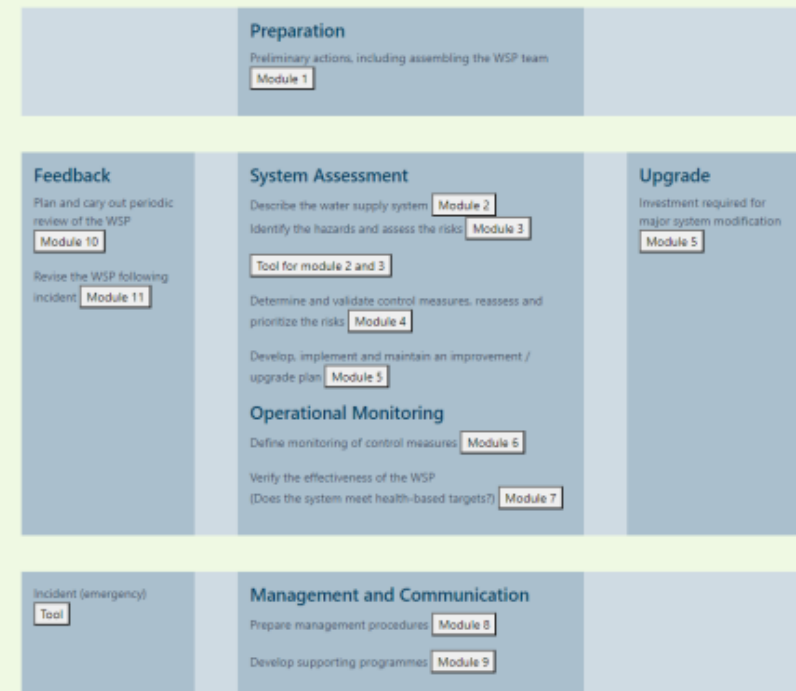


Σύστημα Υποστήριξης Διαδικασιών
Σχεδιασμού ΣΑΝ- WASPP-DSS



GENERAL STRUCTURE OF THE WASPP-DSS

How to prepare a water safety plan (WSP)



ΠΕ Τ2 - ΠΙΛΟΤΙΚΕΣ ΔΡΑΣΕΙΣ



Development and operation of an integrated information system for the improvement of the Water Safety Planning Mechanism for the water supply system of DEYAL

The transnational map of the pilot sites related to the four hazards (drought, flood, accidental pollution and earthquakes.

ΠΕ Τ3 - ΑΝΑΠΤΥΞΗ ΣΤΡΑΤΗΓΙΚΗΣ ΚΑΙ ΣΧΕΔΙΟΥ ΔΡΑΣΗΣ

ΜΗΧΑ



SPECIFIC HAZARDS ADDRESSED BY THE PROJECT

DROUGHTS



Ridracoli WSS (IT), Nikšić WSS (MNE), spring Golubinka (CRO) Istrian WSS (CRO), and Deyal area (GR).

FLOODS



Kamnik WSS (SLO), spring Golubinka (CRO), Nikšić WSS (MNE), Deyal area (GR).

EARTHQUAKES

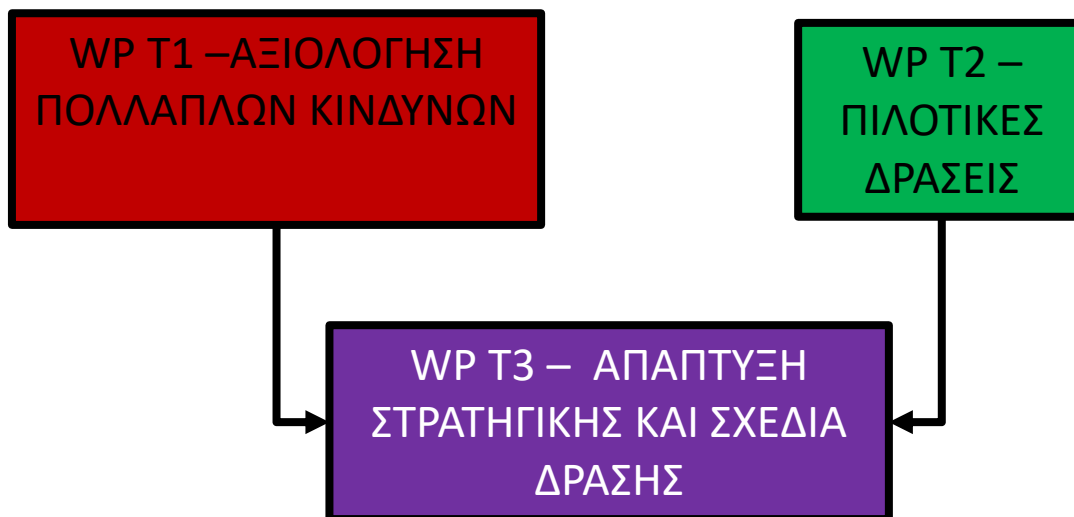


Ridracoli WSS (IT), Kamnik WSS (SLO), spring Golubinka (CRO), Istrian WSS (CRO) Nikšić WSS (MNE) and Deyal area (GR).

ACCIDENTAL POLLUTIONS

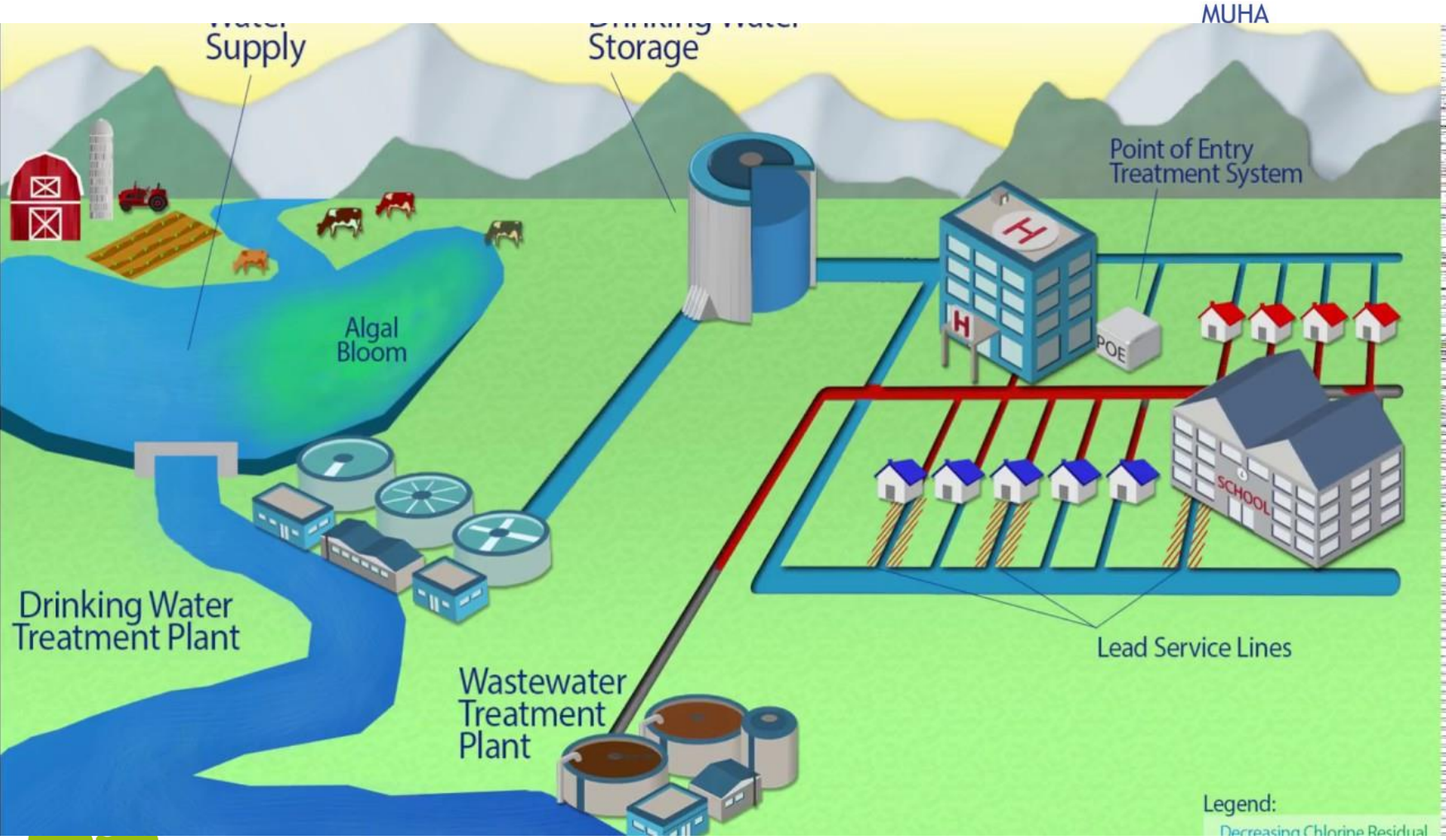


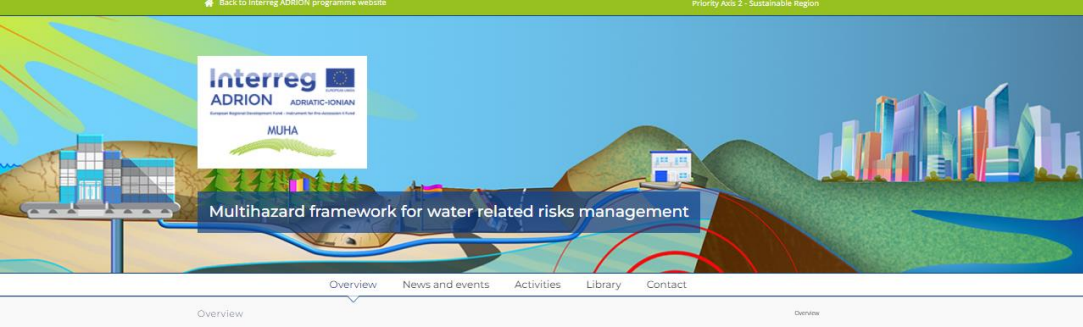
Ridracoli WSS (IT), Kamnik WSS (SLO), spring Golubinka (CRO), Istrian WSS (CRO), Nikšić WSS (MNE), and Deyal area (GR).



ΒΑΣΙΚΑ ΠΑΡΑΔΟΤΕΑ		ΠΕΡΙΓΡΑΦΗ
T3.1	Resilient Water Supply – ADRION CHARTA	Document to summarize the knowledge (T1) and experiences (T2) of the project resulting in strategic document defining a vision and priorities for the resilient water supply in the ADRION region
T3.2	Institutional action plans for resilient water supply	Action plans for the implementation of the procedures and tools increasing safety of water supply in key institutions: (1) Water Utilities, (2) Civil Protection Authorities, (3) Water Authorities

ΕΡΓΑΛΕΙΟ ΛΗΨΗΣ ΑΠΟΦΑΣΕΩΝ (WASPP - DSS)





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MUHA

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<https://muha.adrioninterreg.eu/>



ΜUHA Διαδικτυακή Ημερίδα
23 Φεβρουαρίου 2022
Ελλάδα

Ευχαριστώ για την προσοχή σας!



Πανεπιστήμιο Θεσσαλίας, Τμήμα Πολιτικών Μηχανικών
Αναστασία Παπαδοπούλου



UNIVERSITY OF
THESSALY