

AQUA MONITOR



YOUNG WATER PROFESSIONAL KOSOVO



Who we are - YWP-K

- Young Water Professionals Kosovo
- Founded at November 2013
- Founded by **SHUKOS & IAWD**
- **IWA** chapter since September 2023
- 49 members
- Heterogeneous group



Project idea




- **7 Water Utilities in Kosovo**
 - 156,835,378 m³ - 2022
 - 418,648 customers - 2021
 - Reporting to WSRA for water production
 - Reporting to RRBA for water abstraction
- **Reporting**
 - Excel Sheet reports
 - Unstructured Data
 - Non unique reports

Project idea and financing

- **Problematics and idea**
 - Low credibility of data
 - Losing data consistency
 - Unstructured data
 - Delayed decision making
- **Financing**
 - IWRM-K & SDC
 - 30,000 €
 - 18 members worked on it



Project proposal

 Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Agency for Development
and Cooperation SDC



Republika e Kosovës
Republika Kosova-Republic of Kosovo
Qeveria
Vlada-Government

INTEGRATED WATER RESOURCES MANAGEMENT IN KOSOVO (IWRM-K)

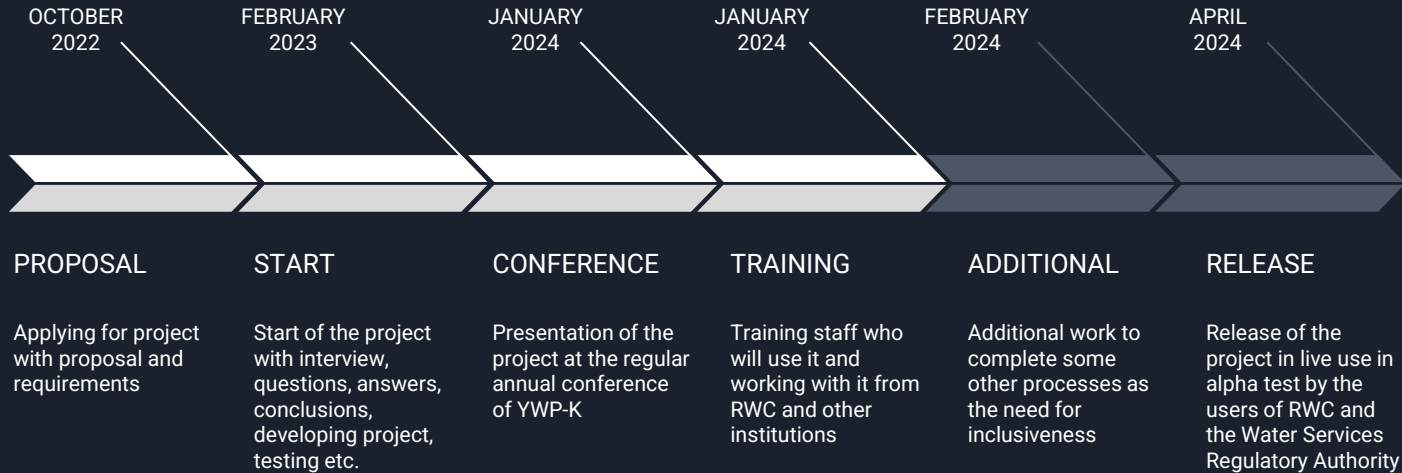
Phase 1
May 2020 – April 2024

Proposal for the Grant Scheme for Civil Society
Organisations

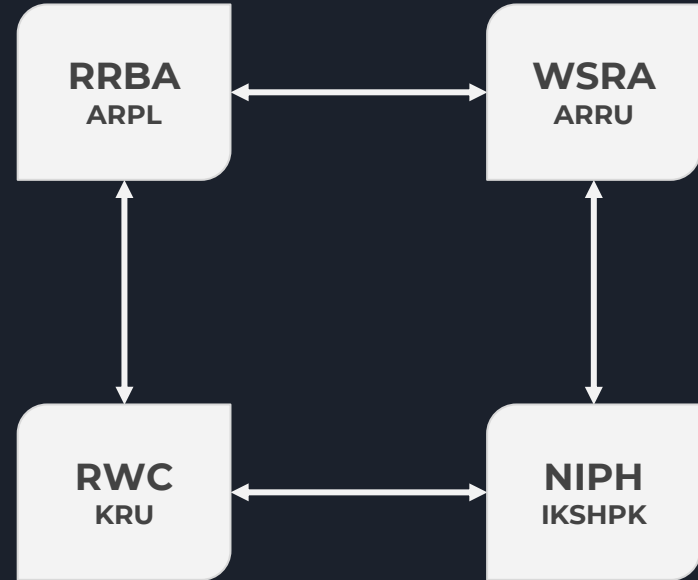
October 2022



Timeline of project



Interconnection of institutions



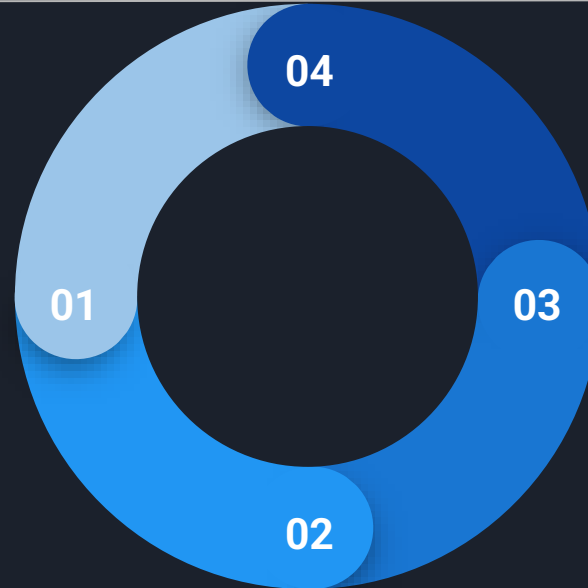
Modules

Water sources

Production meters stations, production meters, readings, permits, coverages, reports, map

Pump stations

Pump stations, pumps, readings, reports, map



Evidences

Bilance, population by years, populations, places, demand of the water, reports

Water quality

Analysis, analysis category, analysis type, reports, map

Module 1

Water sources

- Water sources
- Meter stations
- Production meters
- Readings
- Permits
- Coverages



AQUA MONITOR

Water meters

ID	Serial No.	Water Meter	Status	Flow	Flow Unit	Flow Rate	Flow Unit
1	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
2	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
3	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
4	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
5	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
6	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
7	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
8	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
9	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³
10	10000000000000000000	10000000000000000000	OK	10000000000000000000	m³	10000000000000000000	m³

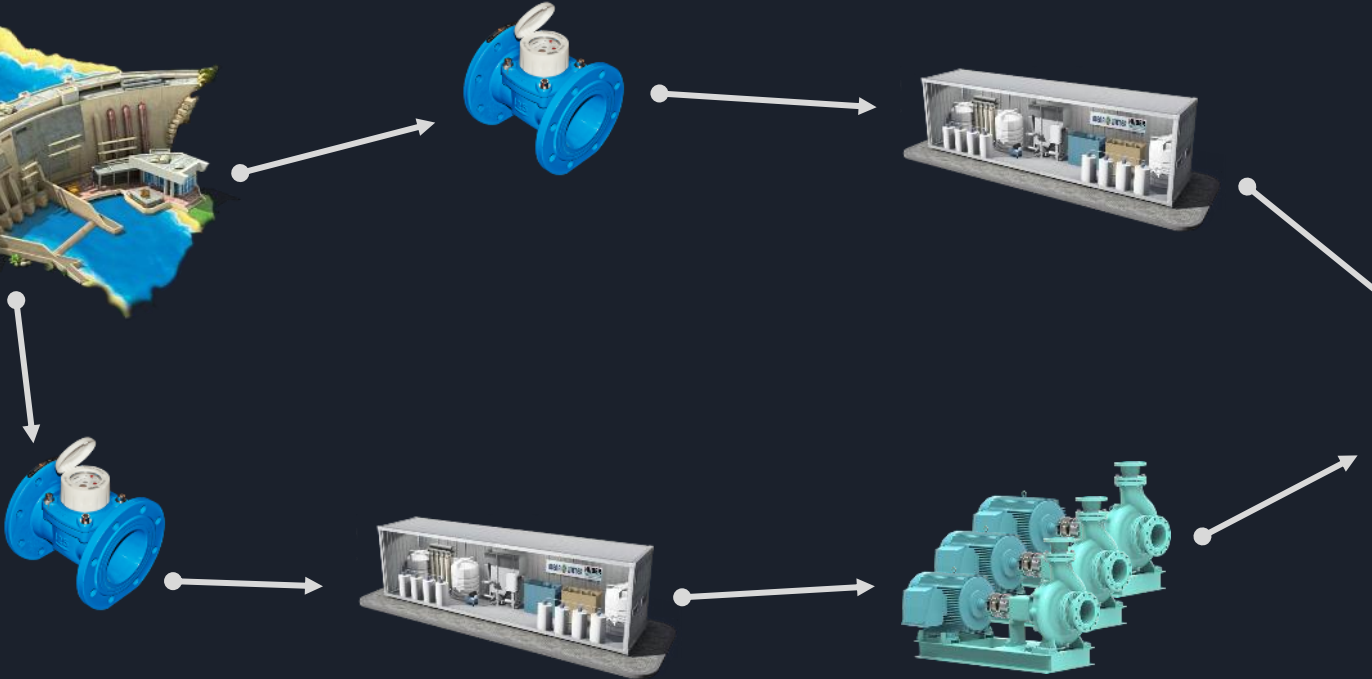
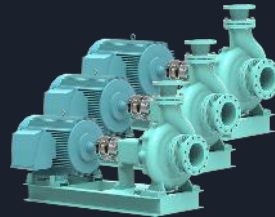
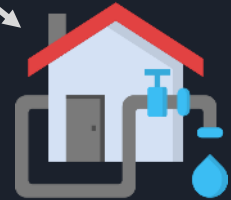
WATER SOURCE SUMMARY REPORT

Title	Version	Location	Scale
10000000000000000000	10000000000000000000	10000000000000000000	10000000000000000000

Motor group station	Meter (Serial No.)	Reading date	Previous value	Current value	Previous start value	Current start value	Difference
Stackeri - Vermeke - Sijbeek - Dobrušti (N2) KRLU-PZ 47/2	10000000000000000000	02.02.2024	524266.00	533370	524266.00	533370.00	9104.00
	10000000000000000000	02.02.2024	442022.00	453043	442022.00	453043.00	11021.00
10000000000000000000	10000000000000000000	02.02.2024	528642.00	547503	528642.00	547503.00	18861.00

Module 1

Water sources



Module 3

Water quality

- Analysis
- Analysis type
- Analysis category



The screenshot shows the 'AQUA MONITOR' software interface. On the left, there is a navigation menu with options like 'Water source', 'Water quality', and 'Water analysis'. The main area displays a table of analysis results with columns for 'Analysis type', 'Numeric value', 'Text value', 'Standards', 'Unit', 'ISO', 'Laborant', and 'Signing'. The table contains three rows of data.

#	Analysis type	Numeric value	Text value	Standards	Unit	ISO	Laborant	Signing
1	Amonia	0.55	qwt		mg/l			
2	Escherichia coli	0.60			numb/100 ml			
3	Bakteri koliforme	2.80			numb/100 ml	3	2	

The screenshot shows the 'ANALYSIS REPORT' software interface. It displays detailed information for a specific analysis, including the identifier, reference, company, water source, and comment. It also includes a QR code and a map showing the location of the water source.

Identifier: 240410-KRUPR-0001
Analysis date: 10.04.2024
Reference: A
Municipality: Suharekë
Company: KRU Hidroregjioni Jugor
Coordinates: 42.60475, 20.89139
Water source: [Map]
Comment: C

#	Analysis type	Numeric value	Text value	Standards	Unit	ISO	Laborant	Signing
1	Amonia	0.55	qwt		mg/l			
2	Escherichia coli	0.60			numb/100 ml			
3	Bakteri koliforme	2.80			numb/100 ml	3	2	

The screenshot shows a map of the region with various water quality monitoring points marked. The map is overlaid with a grid and includes a legend and a sidebar with additional information.

Training

Training and conference

- Training RWC's
- User manual
- Presenting on conference
- Support





Expectations and results

- 01 Digitalization and centralization of data
- 02 Analysis through data
- 03 Increasing data availability to the water regulatory authority
- 04 Standardization of water resources utilization reports for all RWCs
- 05 Increasing data reliability to the water regulatory authority

Scalability and advancing

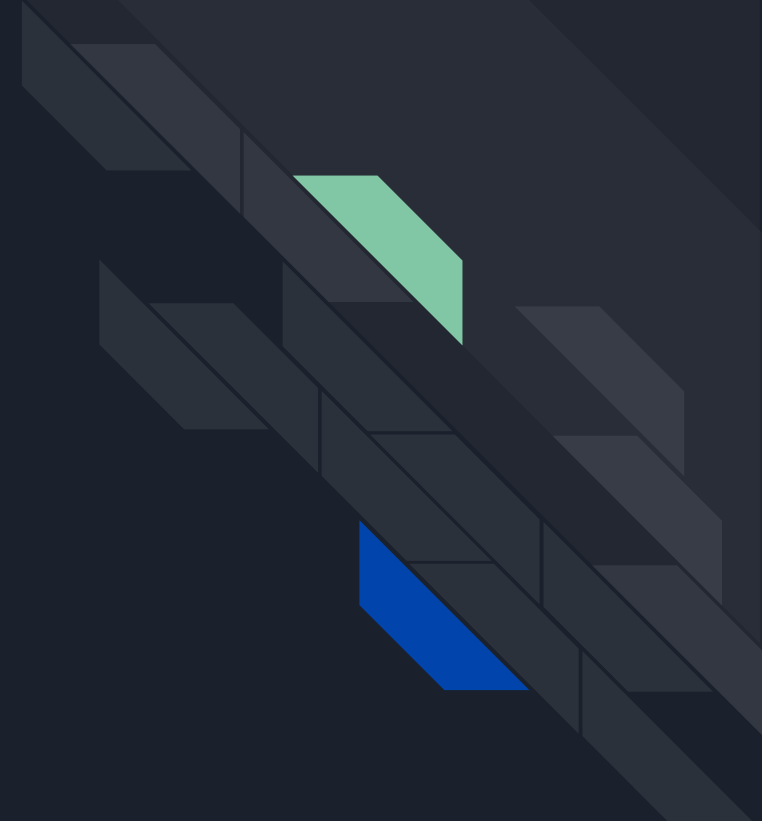
Automation processes

Integrated CRM

Asset management

Hydrometeorological Institute of Kosovo

Connection with other systems





Thank you!
For your attention

AQUA MONITOR English Admin Admin

Dashboard
Home / Dashboard

THE READING CYCLE IS TEMPORARILY OPEN TO: KRU HIDROMORAVA

Water sources | All
39597 m³
161 Water sources | 6 Production meters

Pump stations | All
471 €
98 Pump stations | 3 Pumps | 3 Readings

Water quality | Analysis | All
3
81 Parameters | 48 Categories

Company: Choose company | Water source: Choose water sou... | From: January 2024 | To: May 2024 | Company: Choose company

Production capacity of water resources

Year	Production Capacity (m ³)
2024	~39,597
2023	0

Water sources by source type

Source Type	Percentage
Well	41.8%
Source	29.8%
Other	17.4%
Other	11.2%

Copyright © 2024 YWP-K
The grant for this project is provided by IWM-K that is a Swiss Agency for Development and Cooperation (SDC) and the Government of Kosovo Program, Implemented by Skat Consulting Ltd. (Switzerland) in consortium with the Environment Agency Austria (EAA)

<https://www.aquamonitor-ks.com/Home>

