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NOCOUNTRY—DEVELOPED OR DEVELOPING—ISIMMUNE. Water

Water is the primary vehicle through which we feel the impacts of climate change.

To effectively address both water and climate challenges,

we must bring climate change and water to the same table – into the same conversation:

Tackling them as one.

https://gublie.wmo.iht/en/media/press-release/water-related-hazards-dominate-disasters-past-50-years



THE PROBLEMS

Difficulties decision making due to disjointed data sources

Increased risk of overflow or drought due to inaccurate projected water levels from traditional models

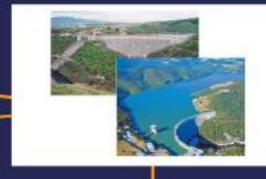
Avoidable management issues caused by lack of input data validation

Time consuming reporting to keep management informed of the dam status



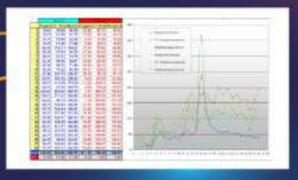
WATER RESOURCES MANAGERS DAILY RESPONSIBILITIES

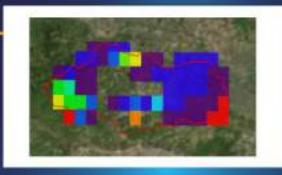












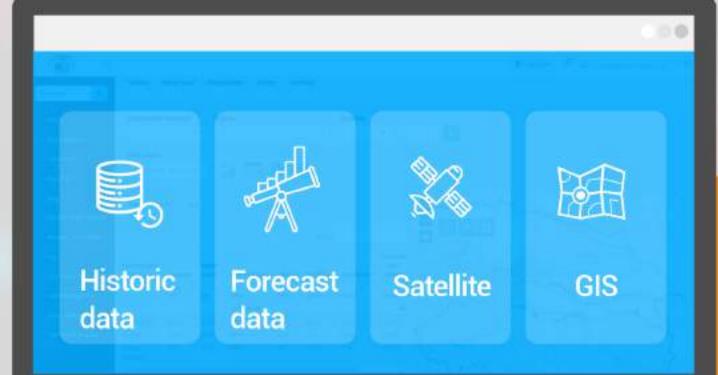
AUTOMATING ROUTINE TASKS AND DE-RISKING COMPLEX TASKS



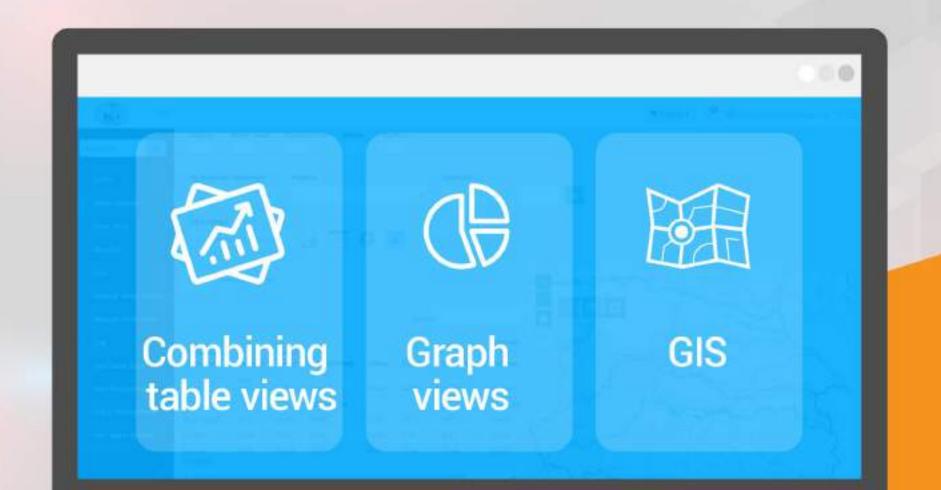








ISME-HYDRO IMPROVES OPERATIONAL EFFICIENCY



SEMANTIC INFRASTRUCTURE FOR WATER MANAGEMENT

INFORMATION INFRASTRUCTURE

NETWORK OF CONNECTED OBJECTS









NEURAL NETWORKS

METEOROLOGICAL AND ENVIRONMENTAL FACTORS



Turbidity



Surface reflection



Precipitation



Snow cover



Soil moisture



Wind



Vegetation index

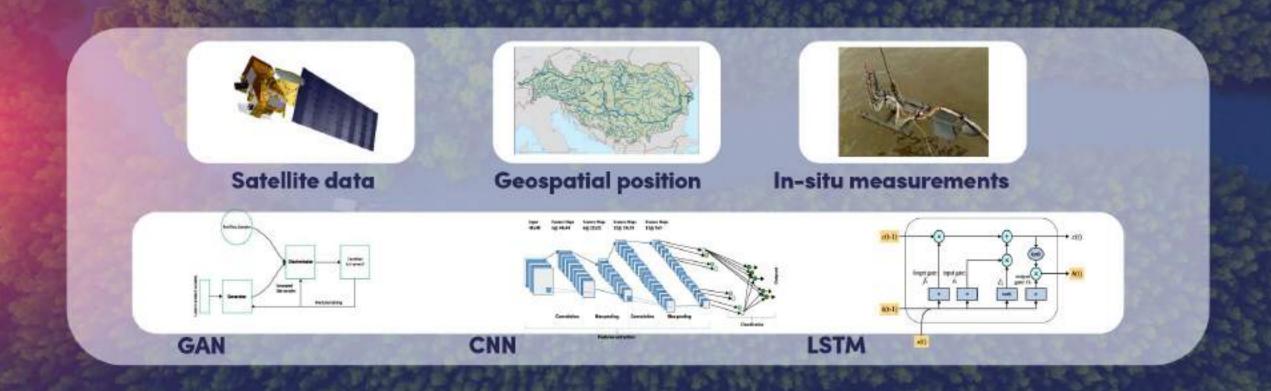


Solar radiance Velocity

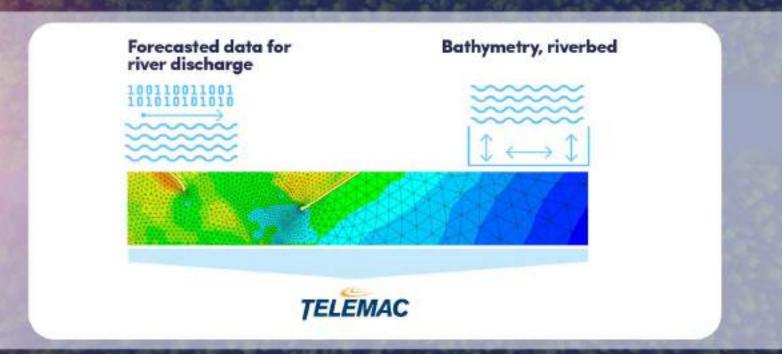


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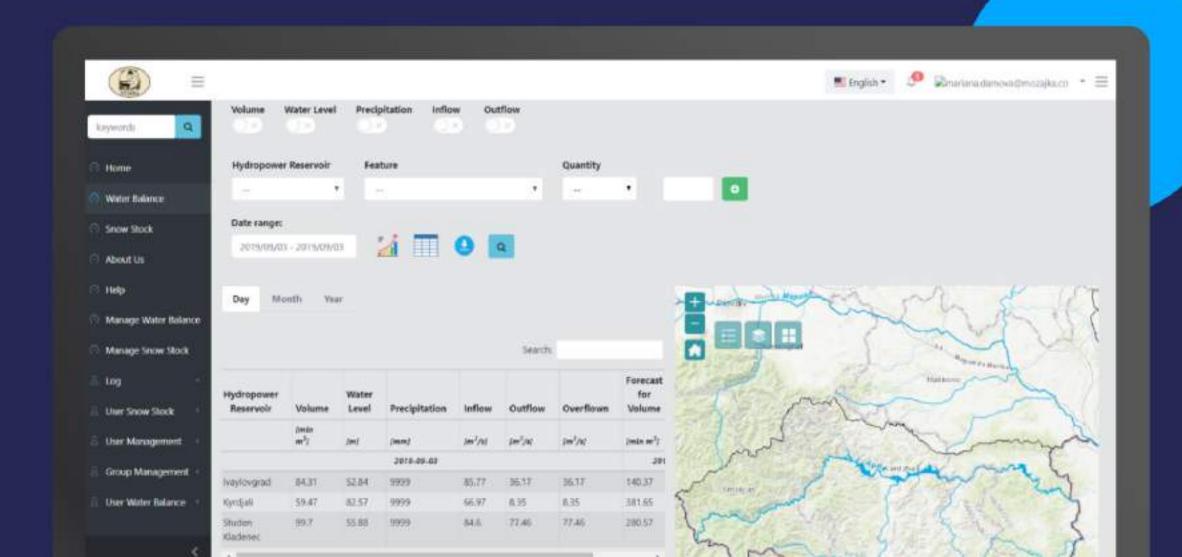
FORECASTING METHOD - E04GEO



FORECAST OF RIVER DYNAMICS



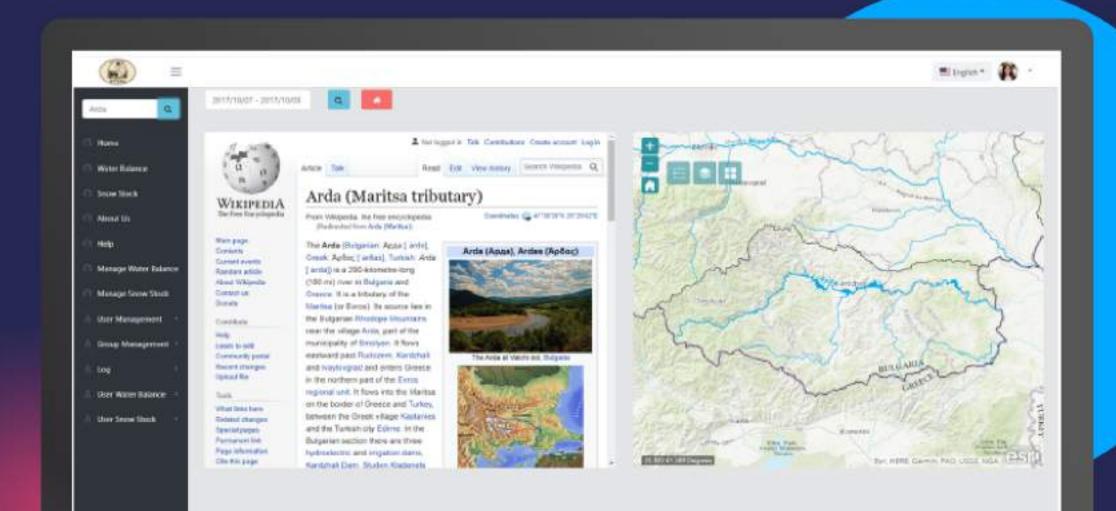
THE APPLICATION - ISME-HYDRO



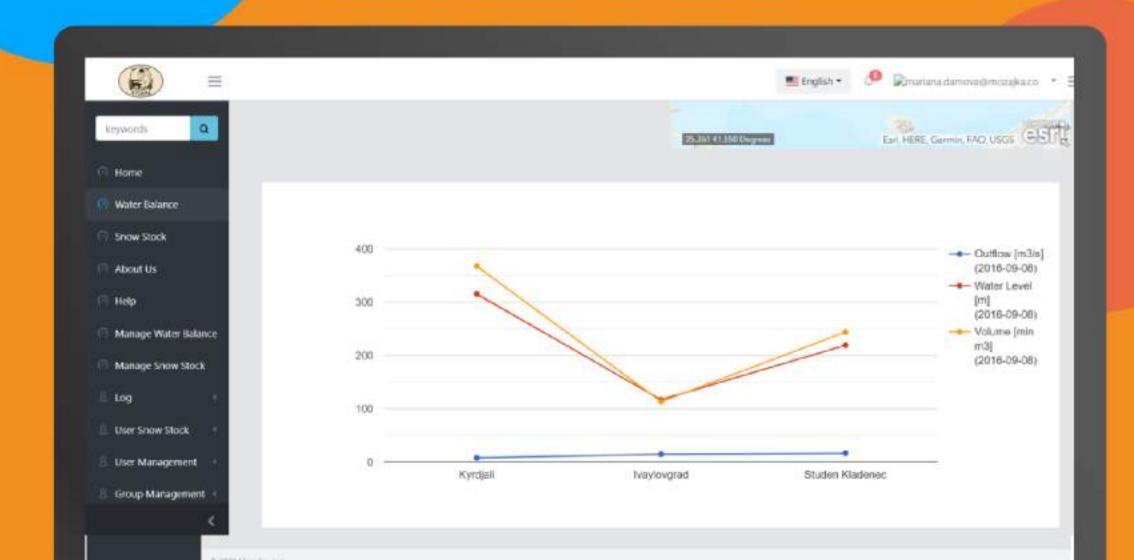
THE APPLICATION - ISME-HYDRO



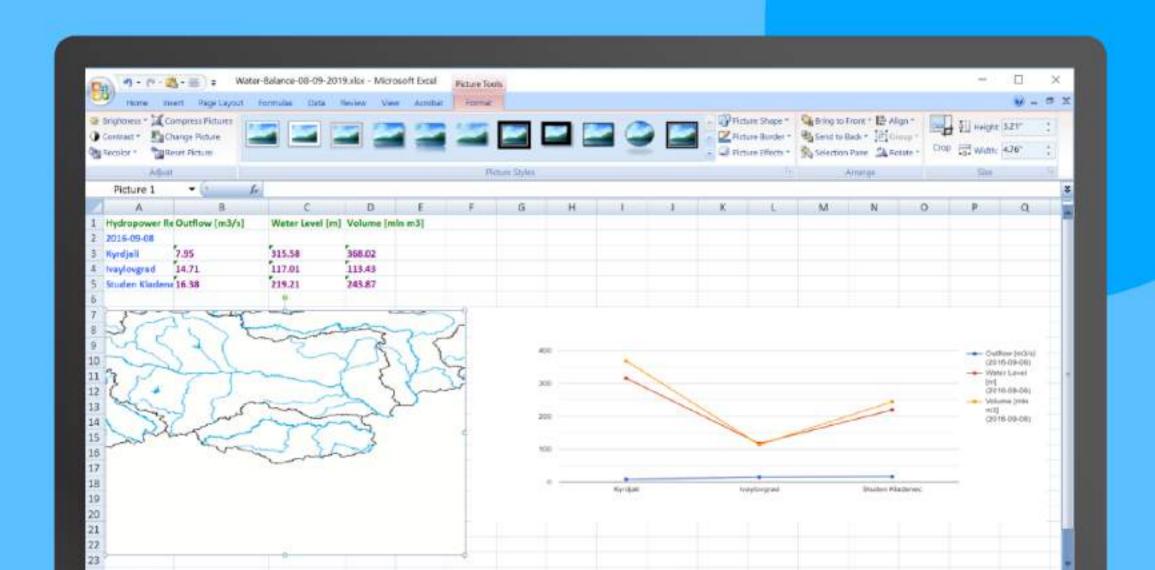
THE APPLICATION - ISME-HYDRO



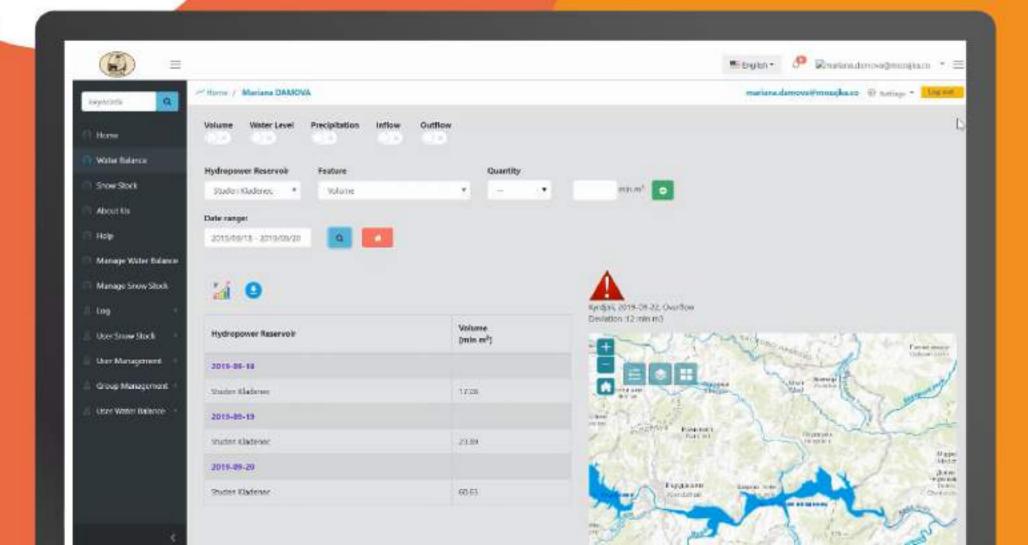
RESULTS IN GRAPHVIEW



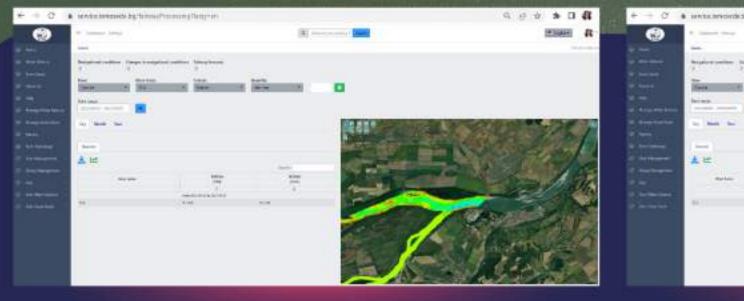
RESULTS DOWNLOADED INTO EXCEL FILE

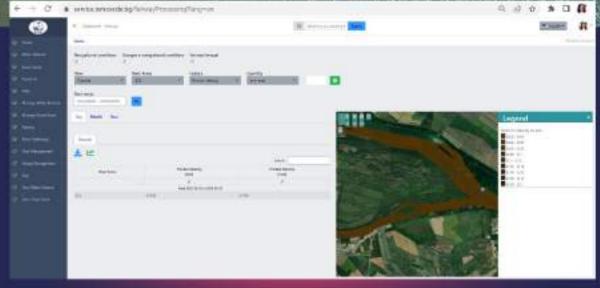


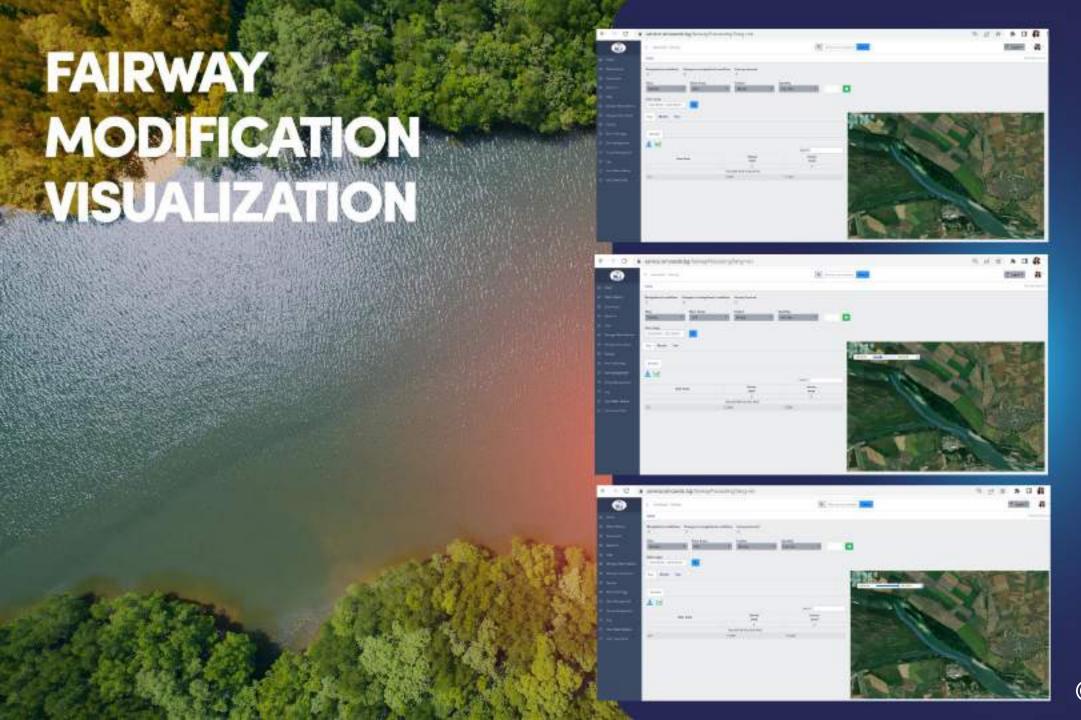
ALERTING



INTEGRATION OF THE FORECASTED HYDRODYNAMIC MODEL INTO A WEB-BASED WORKFLOW BASED ON LINKED DATA E-INFRASTRUCTURE







A NOVEL WAY TO PROVIDE INFORMATION



The forecasts are integrated into the linked data infrastructure and are made available for further use such as







reviewing



USER INTERFACE LEVEL







ISME-HYDRO - AN INTEGRATED INFORMATION SYSTEM FOR THE BENEFIT OF WATER RESOURCES MANAGERS



a disruptive web-based workflow



that makes use of a combination of AI methods



and delivers a viable and hands-on solution





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