



UNIVERSITÀ
DEGLI STUDI
DI BERGAMO



JustWATER

Water Decision Making tools for informed hydropolitics in Italy



SUMMARY

1. **JustWATER : project overview / how food production affects fragile water bodies in Italy through the analysis of virtual water and water footprint analysis**
2. **Gender component : Women in Water in Italy project component**
3. **Methodological challenges**
4. **Challenges: how co – creating viable solutions and not imposing prescriptions (like export substitution or crop substitution)**
5. **the GEOSPATIAL outputs of JustWATER**
6. **Providing informed decision making for policy makers:**

SUMMARY

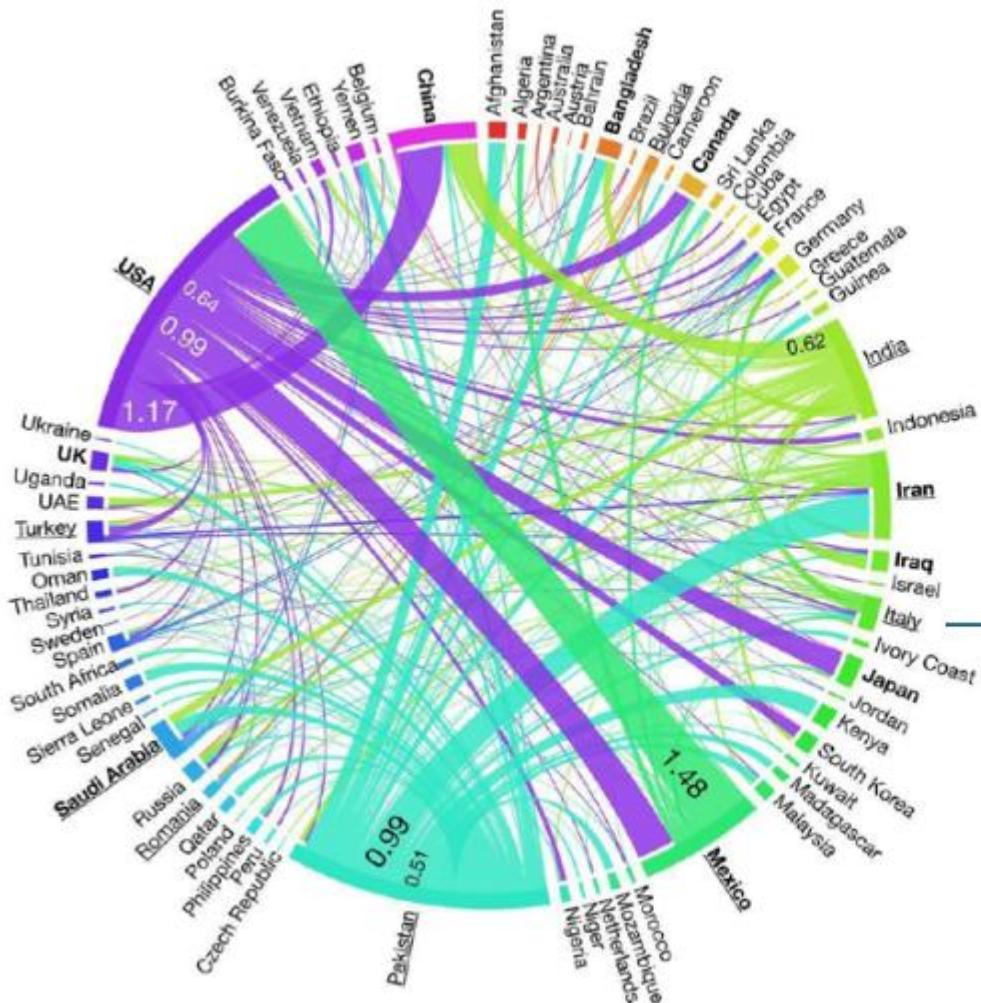
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OUTPUTS (as per Marie Skłodowska Curie requirement)

OPEN ACCESS & INTEROPERABILITY OF DATA REGARDING ITALY WITH HIGH GEOSPATIAL RESOLUTION

- 1.Using GIS mapping and geo Python large dataset processing**
- 2. Creating open access maps of virtual water and water footprint from selected Italian water bodies with the highest amount of withdrawals**

THE PROBLEM



Esaurimento delle acque
sotterranee nelle
esportazioni agricole
internazionali nel 2010

Groundwater depletion
due to agricultural exports
in 2010 (Nature, 2017)
L'Italia si colloca tra i
10 esportatori più grandi

Italy is among the 10° largest
exporters of vulnerable
groundwater

Source: Dali et al. 2017



SOME TERMINOLOGY / VIRTUAL WATER GREEN WATER, BLUE WATER, WATER FOOTPRINT

Virtual water

is the total volume of water consumed to produce crops, or a product, service, or commodity. This "hidden" or "embedded" water is not the water that is directly visible in the final item, but rather the water consumed during its entire value chain, from production to distribution.

Green water

is freshwater from rain which does not contribute to surface water but stays in the body of plants, constitute soil moisture and allows transpiration of plants.

Blue water

is freshwater from lakes, rivers and groundwater. It is what we use for irrigation of crops and what arrives to us from the tap of our home. It is what we know as "freshwater"

SOME TERMINOLOGY / VIRTUAL WATER GREEN WATER, BLUE WATER, WATER FOOTPRINT

THE WATER FOOTPRINT

Is an indicator of water consumption , which includes

- Green water
- Blue Water
- Grey Water (representing pollution dilution)

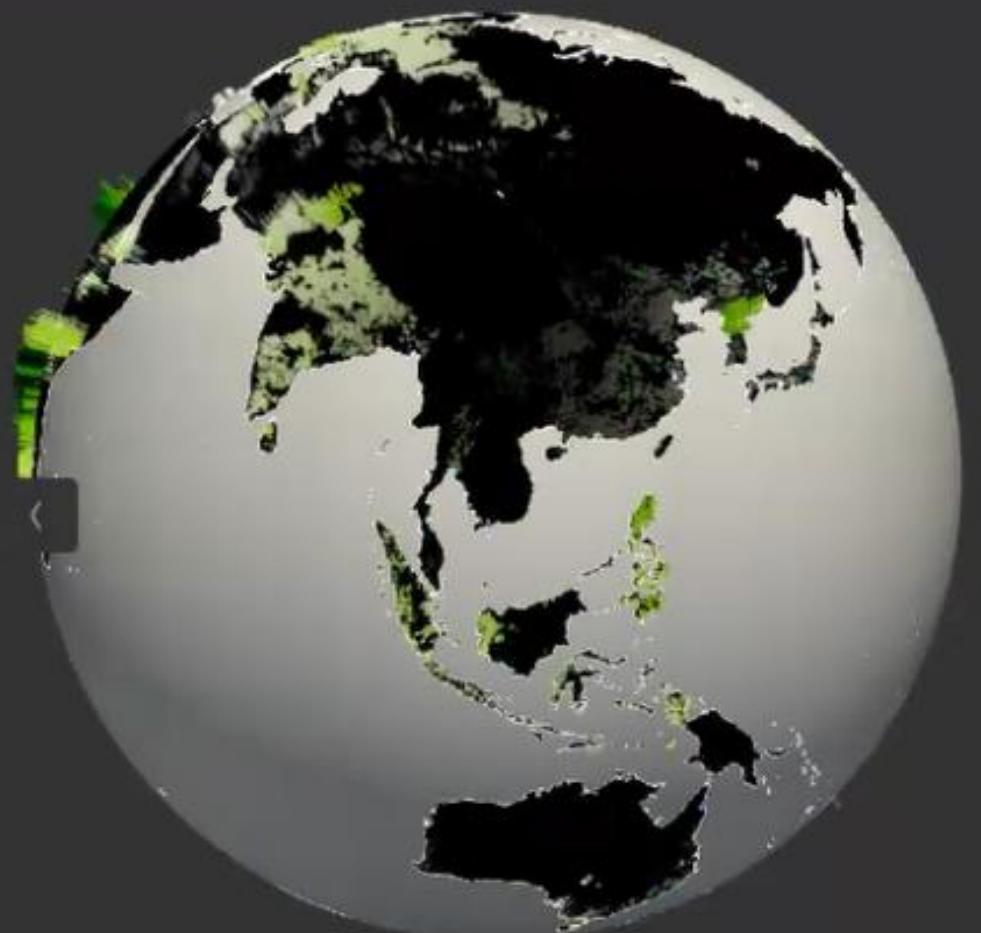
In order to understand withdrawals from water bodies of Italy, we will focus more on Irrigated **BLUE WATER** component of water footprint of crop production.



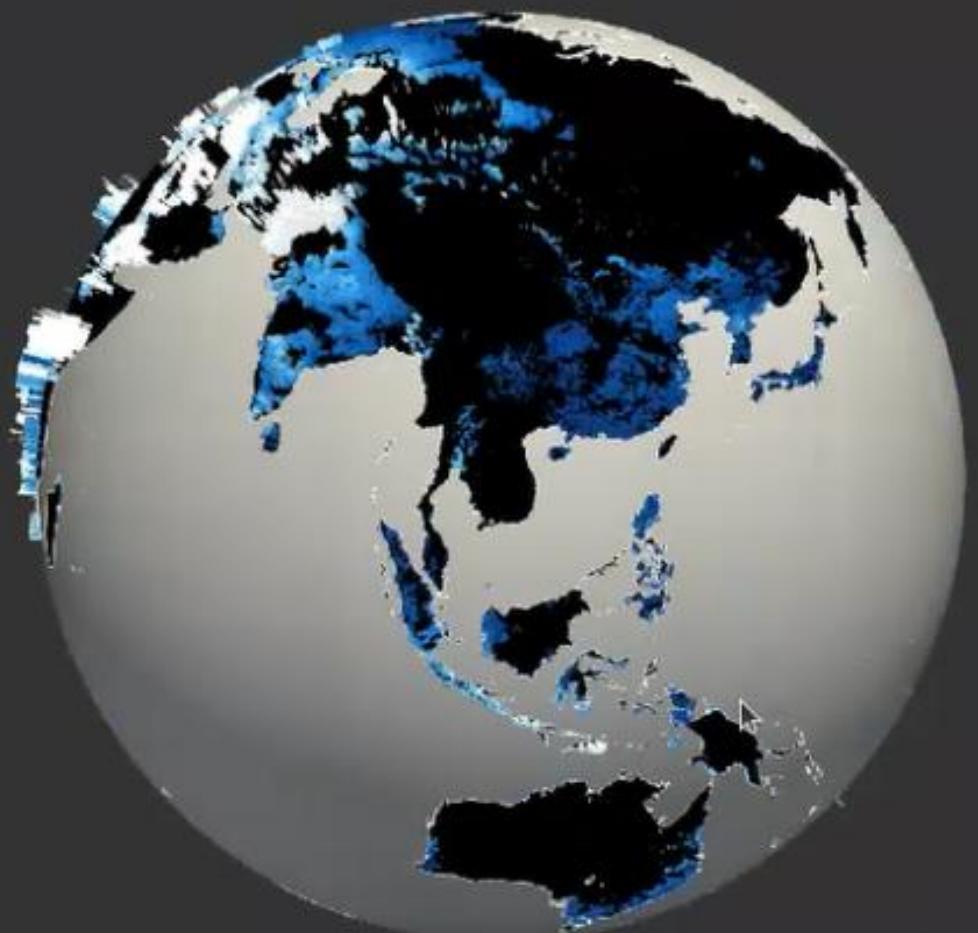
58%



Water footprint - irrigated crop, green water



Water footprint - irrigated crop, blue water



Resolution: 5 arcminutes
Water footprint averaged over ten years.

Water Footprint - irrigated GREEN mm^3

100 200 300 400 500 600 700 800 900

Water Footprint - irrigated BLUE mm^3

50 100 150 200 250 300

1. Providing informed decision making for policy makers: the GEOSPATIAL output of JustWATER

2e+6 4e+6 6e+6 8e+6 1e+7



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MAIN GOAL: GEO LOCATING VULNERABLE WATER BODIES WITH THE HIGHEST WATER FOOTPRINT DUE TO IRRIGATION IN ITALY



Getting a baseline water dataset for the geo localization of vulnerable water bodies, using Aqueduct 4.0 dataset



Mapping intersections , relevant and non – relevant data



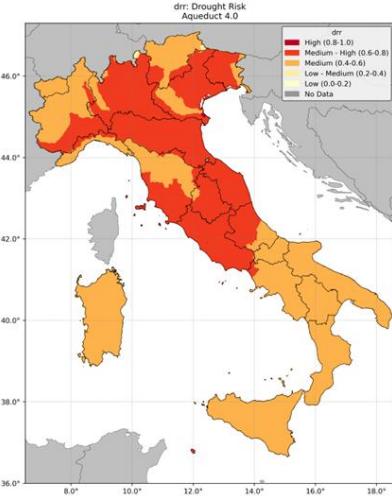
Connecting the dots: overlapping the baseline dataset with water data from Water Footprint Dataset (last update: May 2025 Source: Myalik et al 2024/ May 2025 update).

USE OF AQUEDUCT 4.0 DATASET ON ITALY

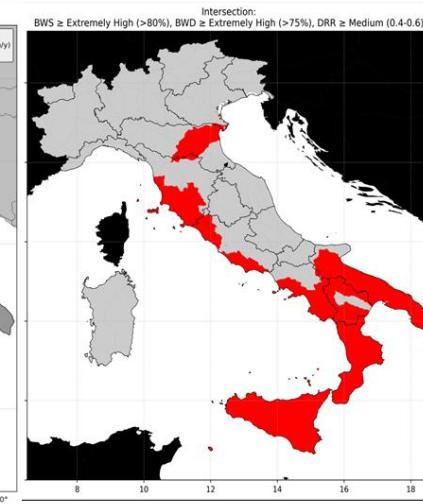
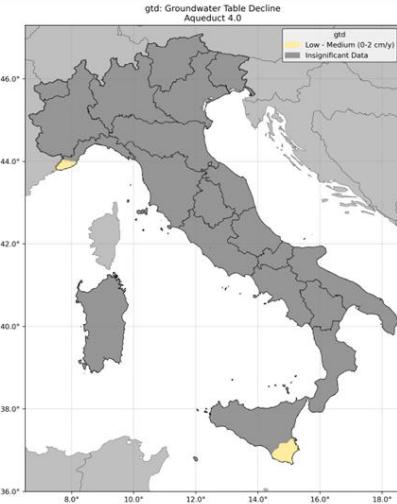
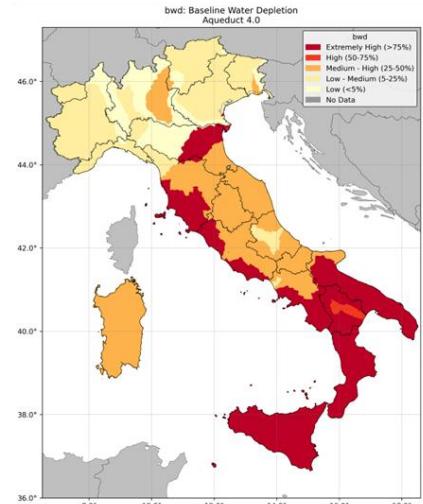
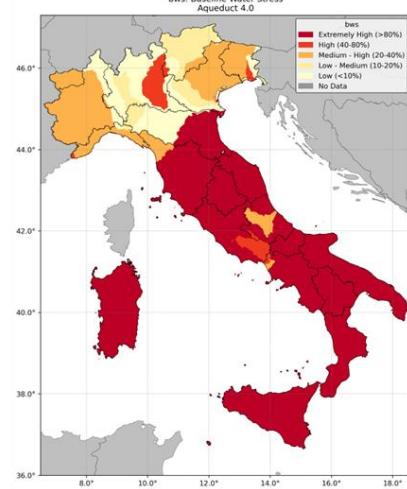
The 5 maps illustrate:

- top left : Italy under drought risk. Not surprisingly the North is on medium-high risk for drought and this map represents 2019, anticipating the 2022-2023 drought
- top right: Italy is under water stress in almost its totality
- bottom right: Water depletion (when natural recharge is lower than withdrawals) is higher in the South
- bottom central map: Groundwater Table Decline is of interest only in Liguria and Sicily
- Bottom right: intersection map between extremely high values for water stress, water depletion and drought risk

DROUGHT RISK



WATER STRESS

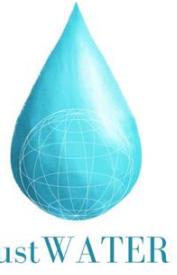


WATER DEPLETION

GW TABLE DECLINE INTERSECTIONS

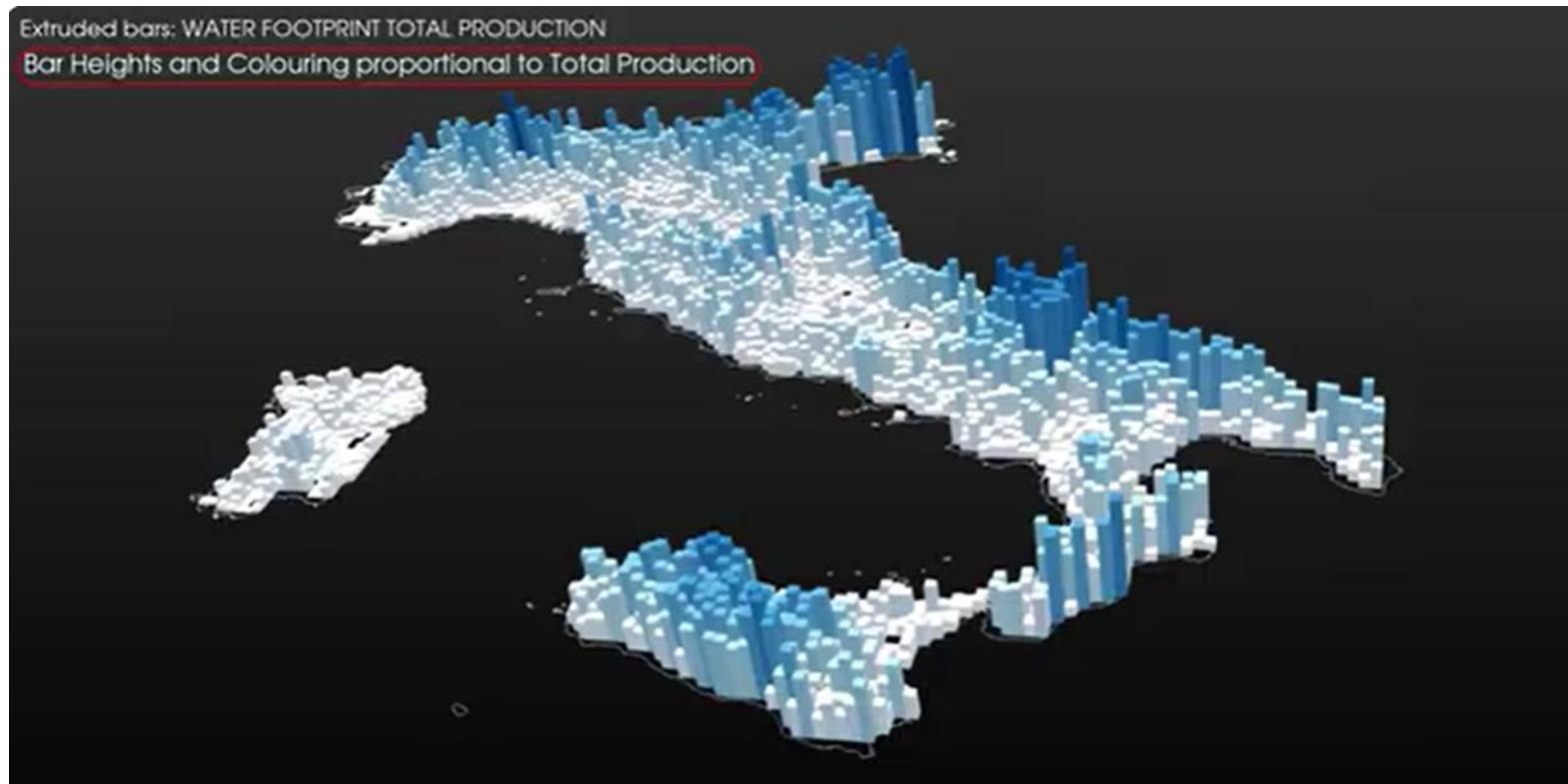


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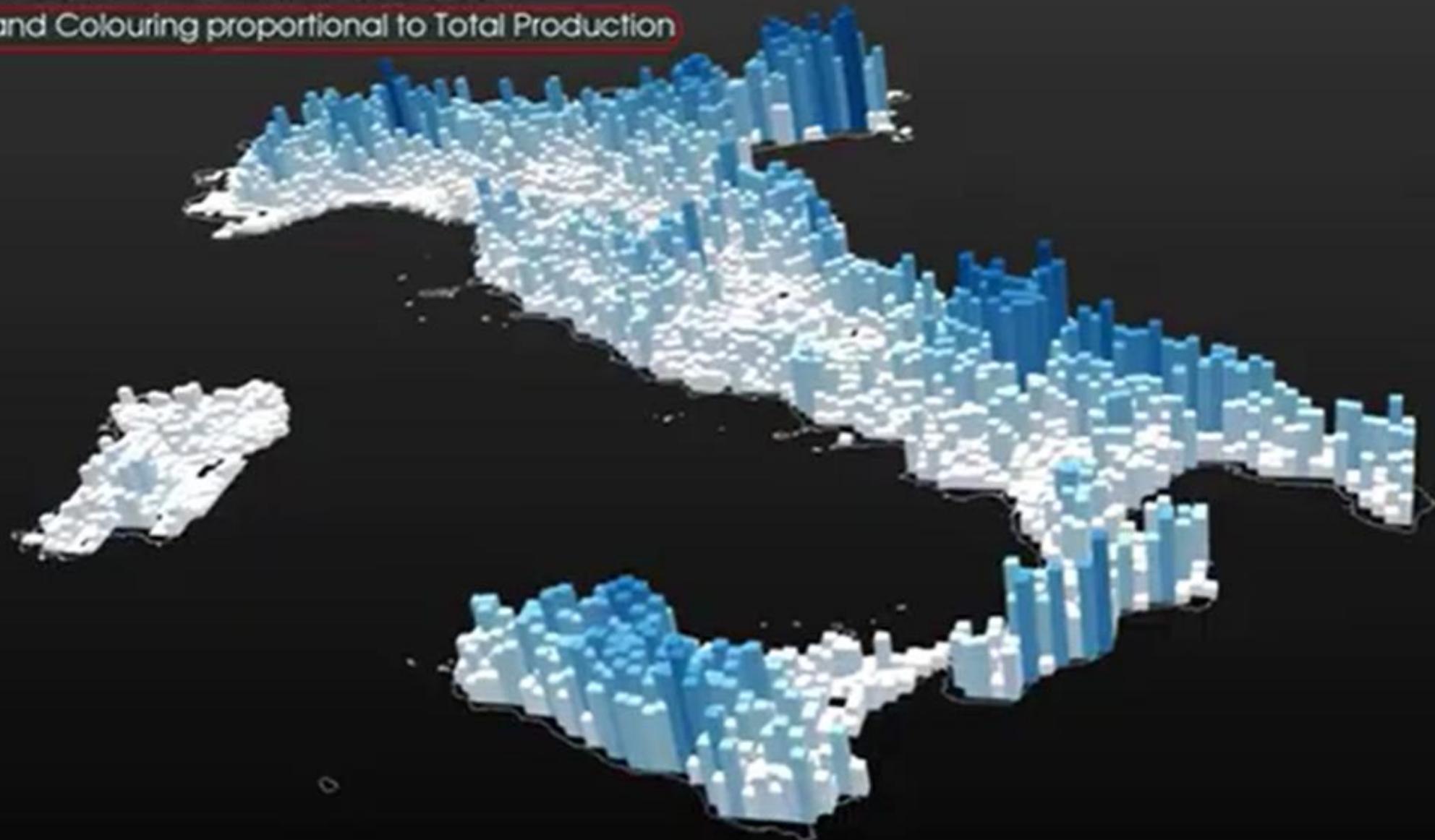
Water Footprint Data for Italy from Water Footprint Dataset

2025 update (Source: Myalik et al 2024) and its application to AQUEDUCT 4.0 Drought Risk, Water Depletion, Groundwater Table Decline and Water Stress.



Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

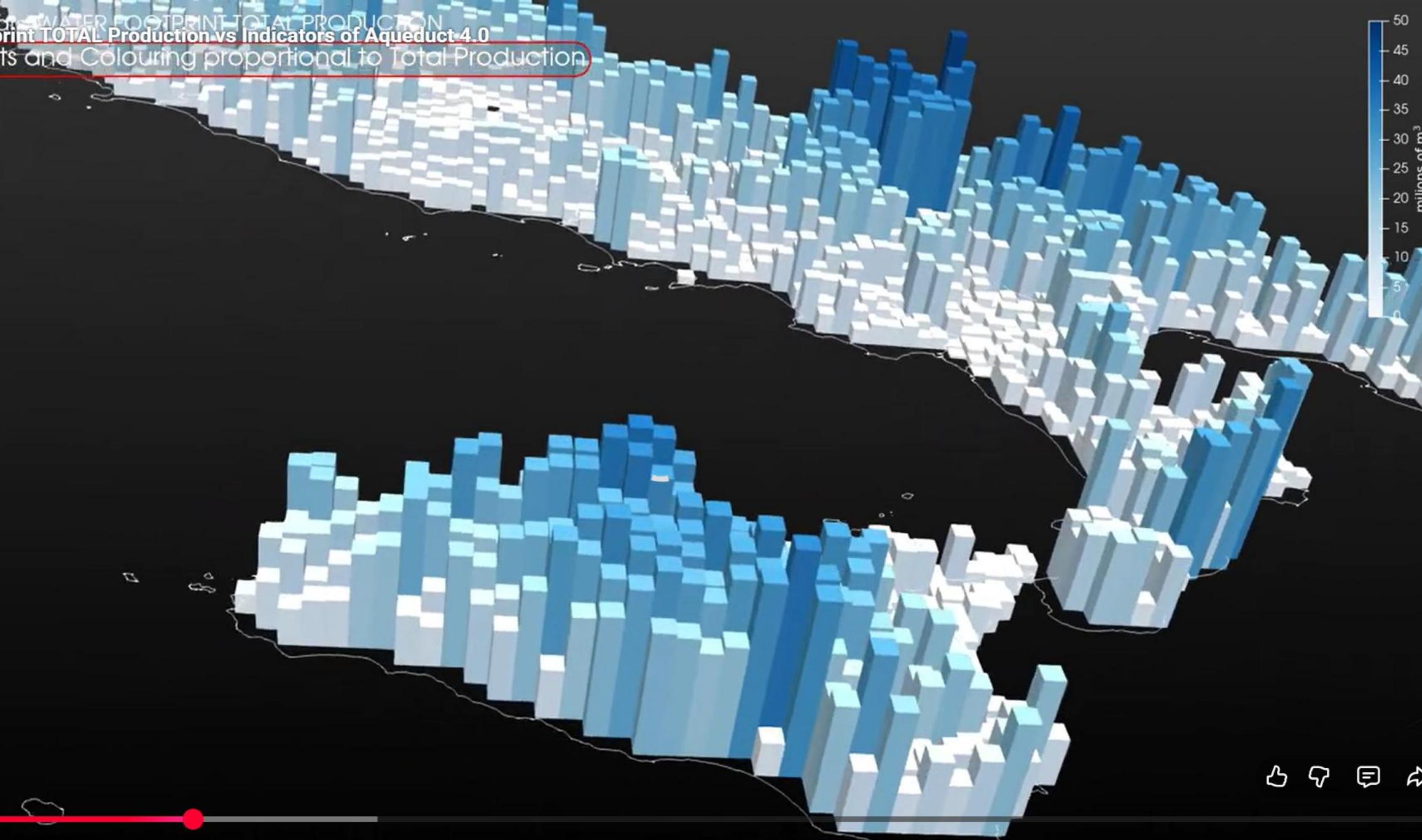
Bar Heights and Colouring proportional to Total Production



Extruded bars WATER FOOTPRINT TOTAL PRODUCTION

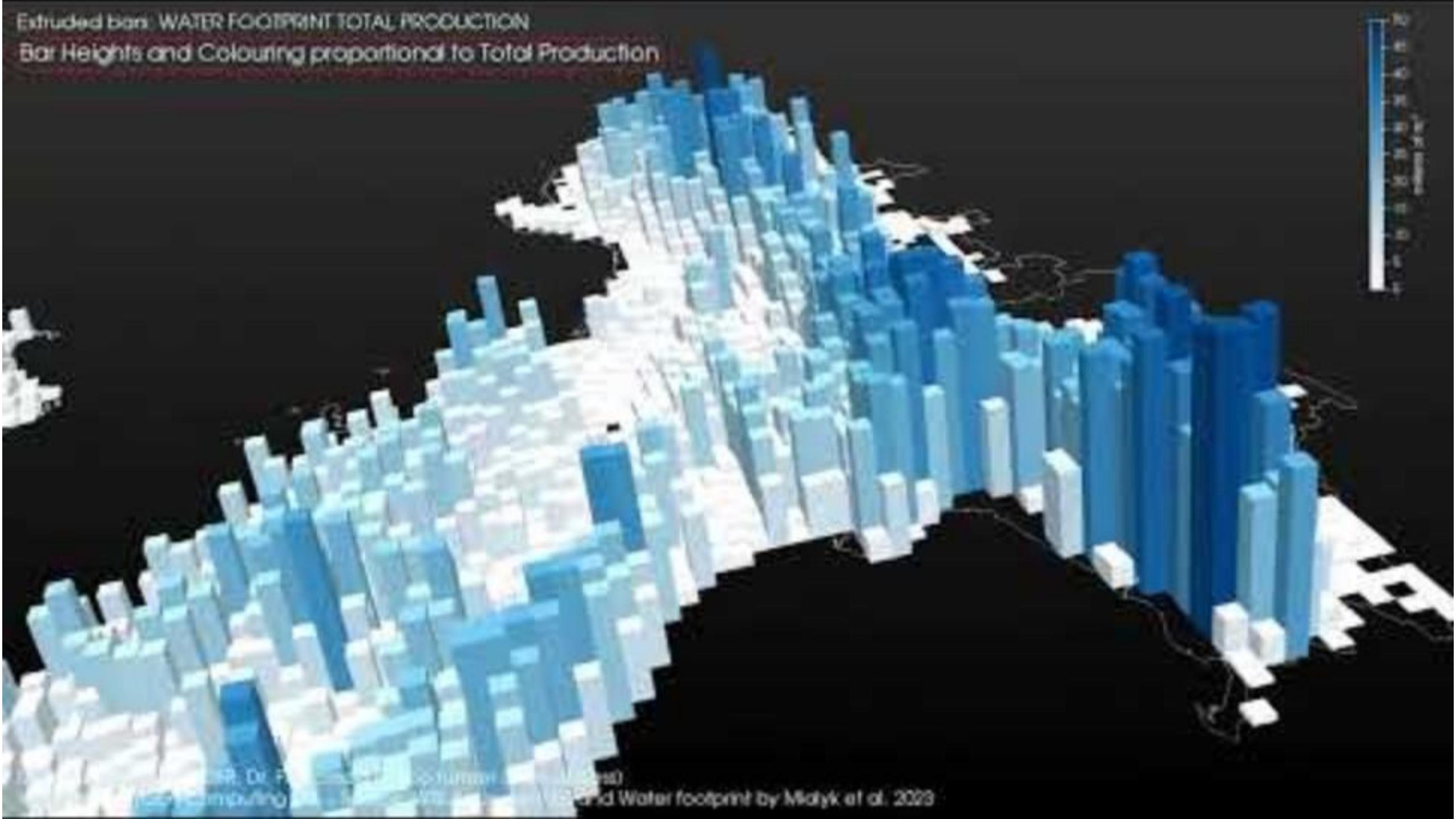
Water Footprint TOTAL Production vs Indicators of Aqueduct 4.0

Bar Heights and Colouring proportional to Total Production



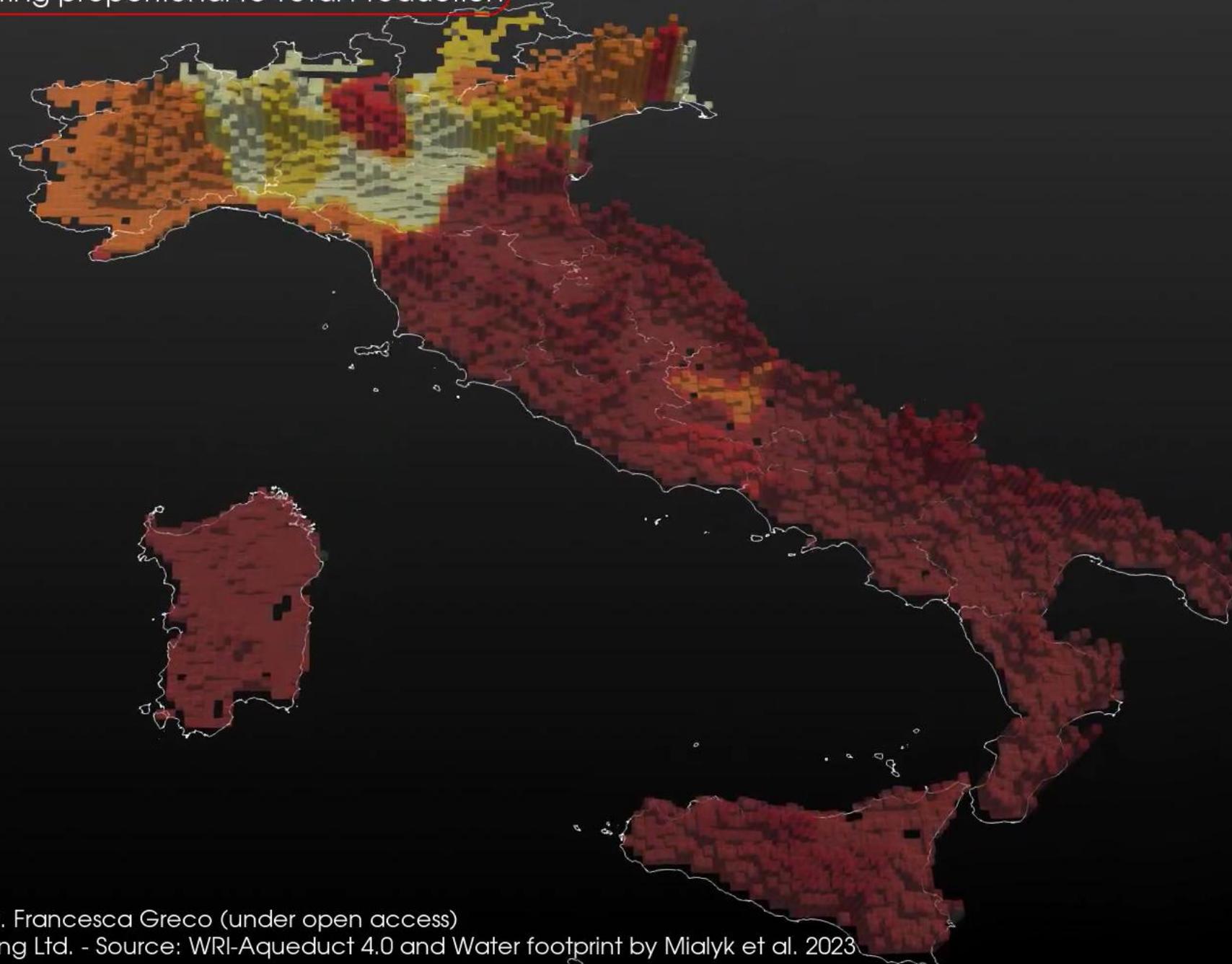
Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

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Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

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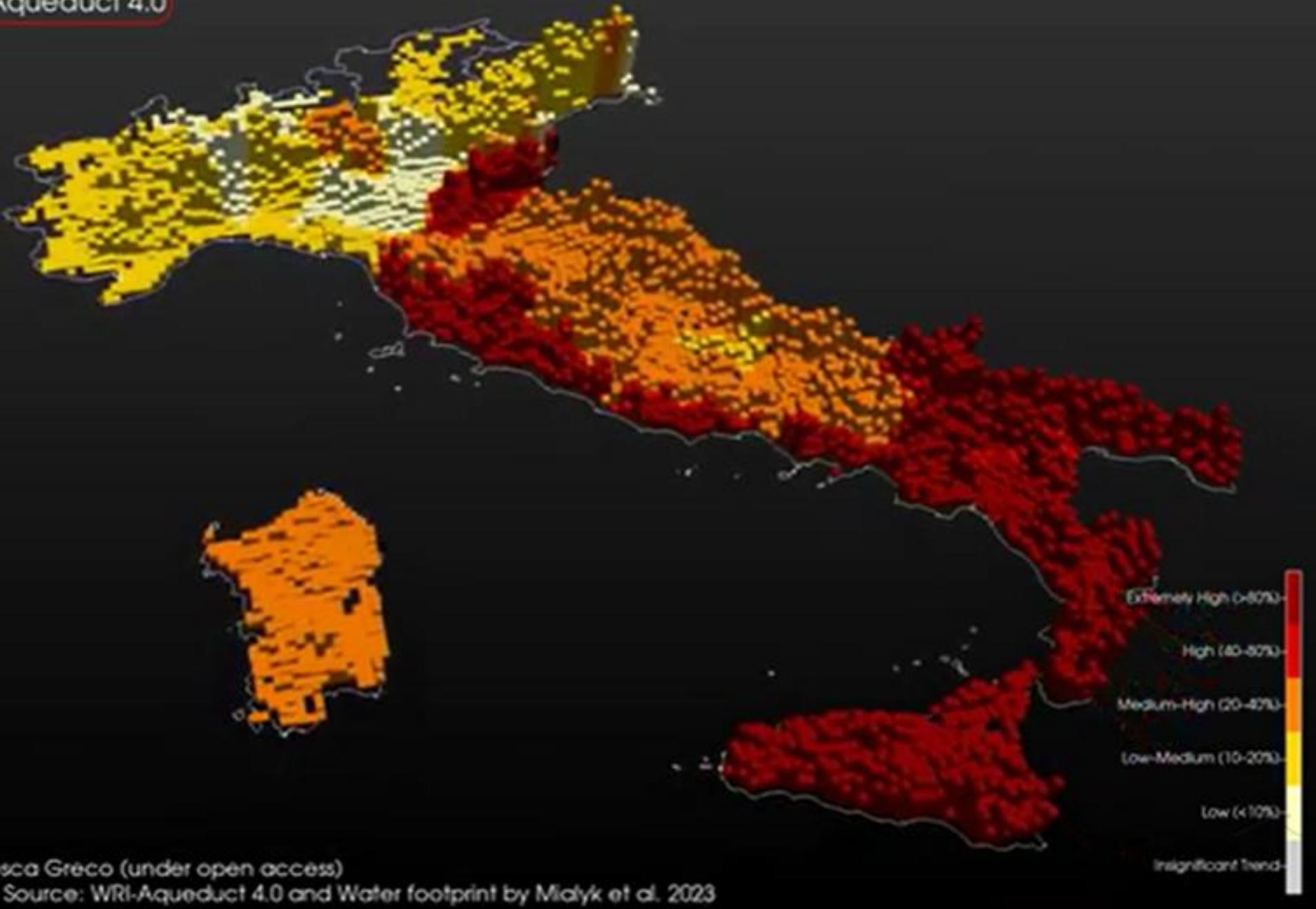


Methodology JustWATER, Dr. Francesca Greco (under open access)

Visualization : GEA Computing Ltd. - Source: WRI-Aqueduct 4.0 and Water footprint by Mialyk et al. 2023

Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

Baseline water depletion -- Aqueduct 4.0

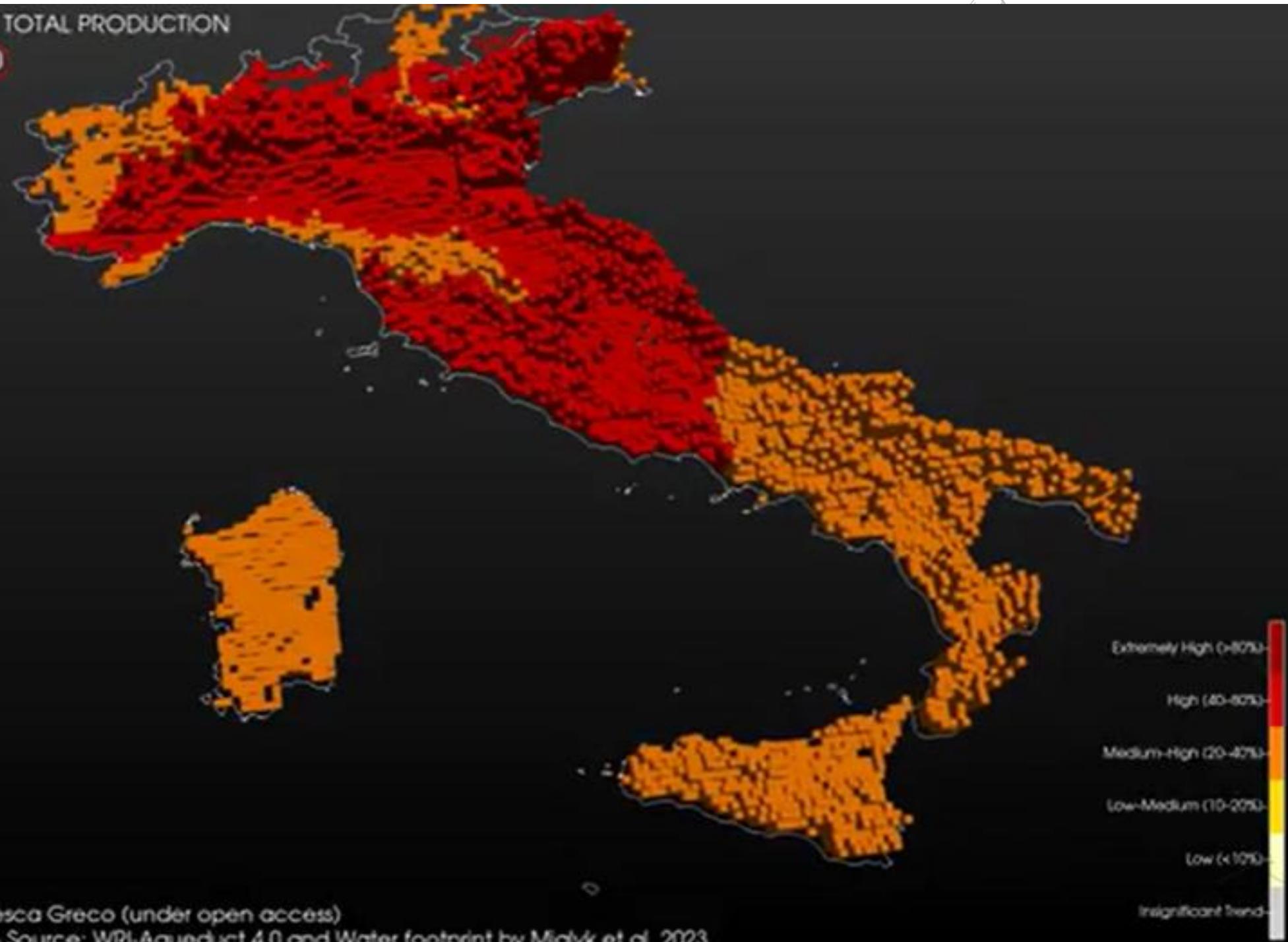


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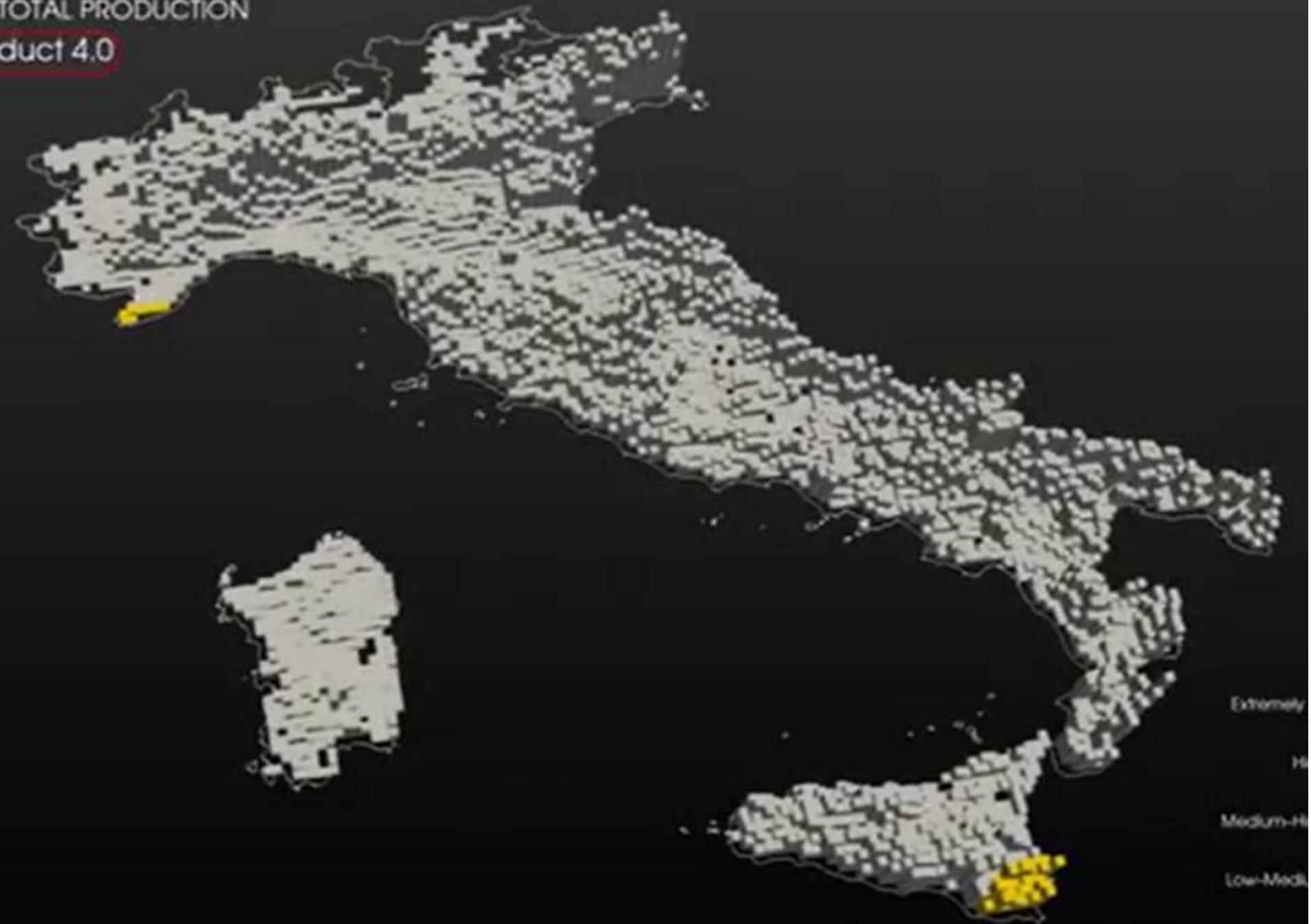
Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

Drought Risk -- Aqueduct 4.0



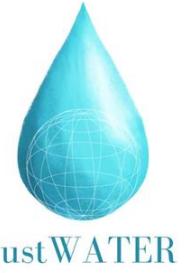
Extruded bars: WATER FOOTPRINT TOTAL PRODUCTION

Water Table Decline -- Aqueduct 4.0





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Water Footprint Data for Italy from Water Footprint Dataset 2025 update (Source: Myalik et al 2024) and its application to AQUEDUCT 4.0 Drought Risk, Water Depletion, Groundwater Table Decline and Water Stress.

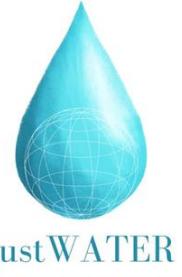
Methodological justification

1. Global methodological consistency

AQUEDUCT 4.0 applies a unified and peer-reviewed framework for assessing physical water risks, regulatory risks, and reputational risks. This allows Italy to be compared reliably with other countries and regions, which is essential for studies involving EU, Mediterranean, or global benchmarks. (more on the methodological choices is available in the poster roll up).



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*SCAN &
WATCH
FULL
VIDEO*





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Water Decision Making tools for informed hydropolitics in Italy



MAIN GOAL: GEO LOCATING VULNERABLE WATER BODIES WITH THE HIGHEST WATER FOOTPRINT DUE TO IRRIGATION IN ITALY



Identifying the water bodies where water withdrawals are putting more pressure to the water body



Mapping intersections of surface water bodies with groundwater bodies



Connecting the dots: vulnerable water bodies where most irrigation withdrawals happen in Italy. Data from Water Footprint Dataset (last update: May 2025. Source: Myalik et al 2024/ May 2025 update).

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GENDER COMPONENT: LITERATURE REVIEW & SEX DISAGGREGATED INDICATORS for the topic “WATER AND GENDER IN ITALY”



justWATER

Water Decision Making tools for informed hydropolitics in Italy

Method: UNESCO WWAP

TOPIC COVERED BY THE SURVEY :

- Agriculture / agricultural extension services for women and men
- Women in water policy and politics in Italy
- Women in water related STEM / education
- female immigrant work in the agricultural sector

**JANUARY 2025:
PRESENTED at PISA UNIVERSITY
AT THE INTERNATIONAL
WORKSHOP ON WATER AND
GENDER / WWAP UNESCO**

- member of the Scientific Committee of the conference
- Paper published by UNESCO for WWDAY26





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WOMEN IN
WATER ITALY

Homepage
Practical Information
Speaker List



WOMEN IN WATER ITALY
is part of the project



justWATER

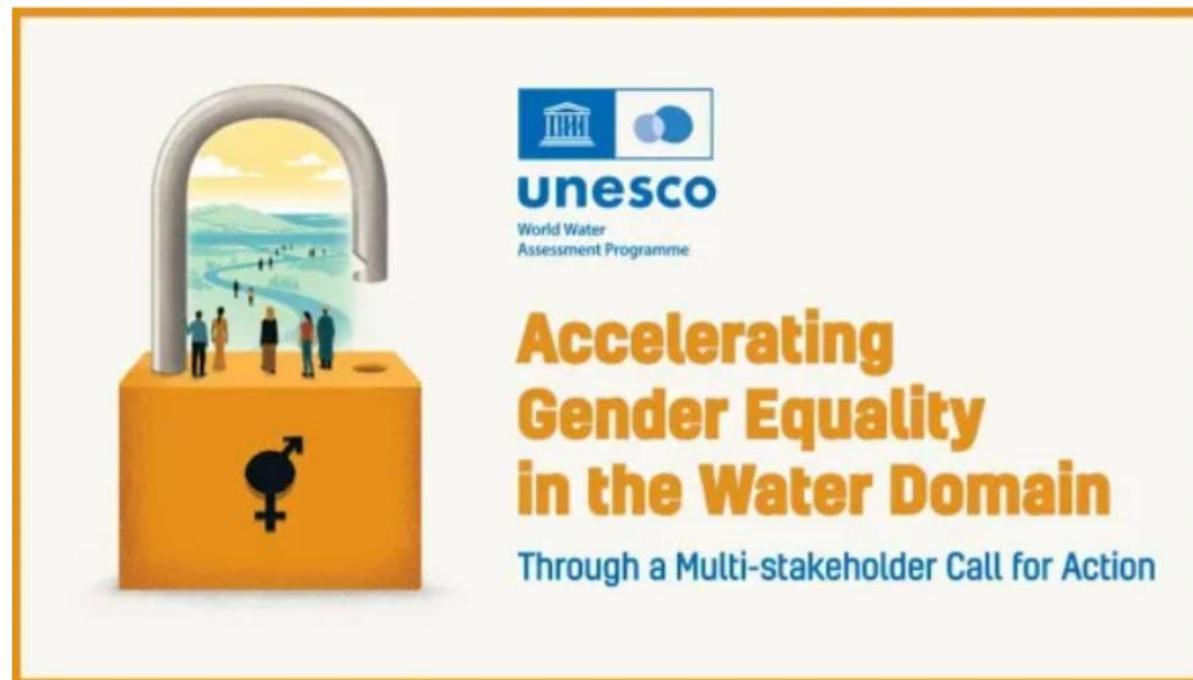
<https://sites.google.com/unibg.it/WOMENINWATERITALY>



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The University of Bergamo joined the UNESCO Coalition for the
Acceleration of Gender Equality in the Water Domain (April 2024)





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Water Decision Making tools for informed hydropolitics in Italy



OUTPUT 1 / GENDER / UNESCO PUBLICATION



Women and water in Italy: gender roles in the water sector, a preliminary review, methodological framework and indicators
currently under publication in OPEN ACCESS through UNESCO

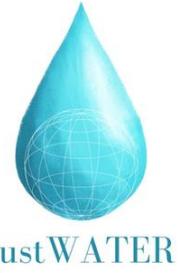
Francesca Greco, Marie Skłodowska-Curie Researcher, Bergamo University, Italy; Visiting Research Fellow, King's College London, UK

Abstract

This study explores women's participation in Italy's water sector – science, agriculture, policy, and governance – addressing a critical gap in national research on gender and water governance. Anchored in feminist Political Ecology, intersectionality issues, and gendered institutions theory, it applies the UNESCO World Water Assessment Programme (WWAP) gender-responsive sex-disaggregated indicators to the Italian context for the first time. The preliminary literature reveals persistent gender disparities in the realm of technical professions, decision-making, and policy influence, compounded and exacerbated by regional inequalities and entrenched gender norms of the country. By operationalizing UNESCO WWAP indicators, the study not only contributes to the creation of a methodology but also to the provision of a first questionnaire in order to allow the production of empirical insights into Italy's gender–water nexus. The paper also offers methodological guidance for integrating gender perspectives into national water policy. This preliminary study provides a foundation for evidence-based interventions that address structural barriers, promote capacity-building, and strengthen institutional accountability in line with European Union (EU) directives and stemming from the UNESCO-led international "Call for Action for the Advancement of Gender Studies and Promotion of Women in the Water Sector". This research builds on the University of Bergamo participation in the WWAP Coalition for "Accelerating Gender Equality in the Water Domain" and it is funded by the EU-Marie Skłodowska Curie Action "JustWATER".



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Water Decision Making tools for informed hydropolitics in Italy

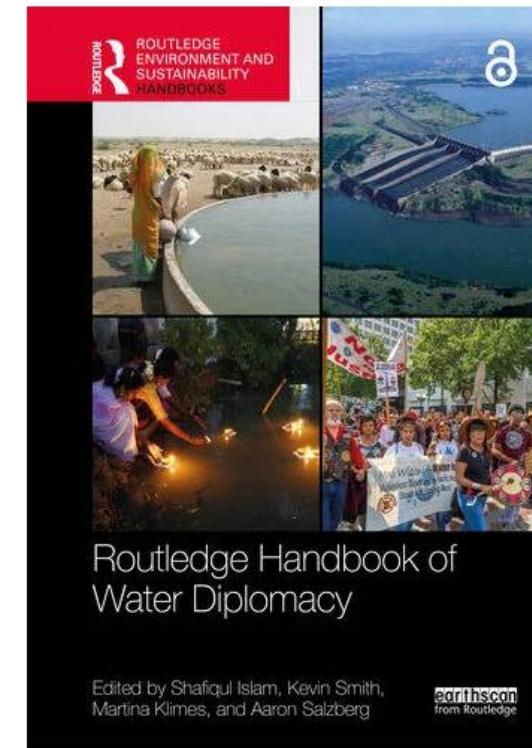
OUTPUT 2 / GENDER :CHAPTER ROUTLEDGE HANDBOOK OF WATER DIPLOMACY

25

GENDER MAINSTREAMING AND GENDER TRANSFORMATIVE APPROACHES

Assessing Progress and Potential in
Water Diplomacy

Francesca Greco

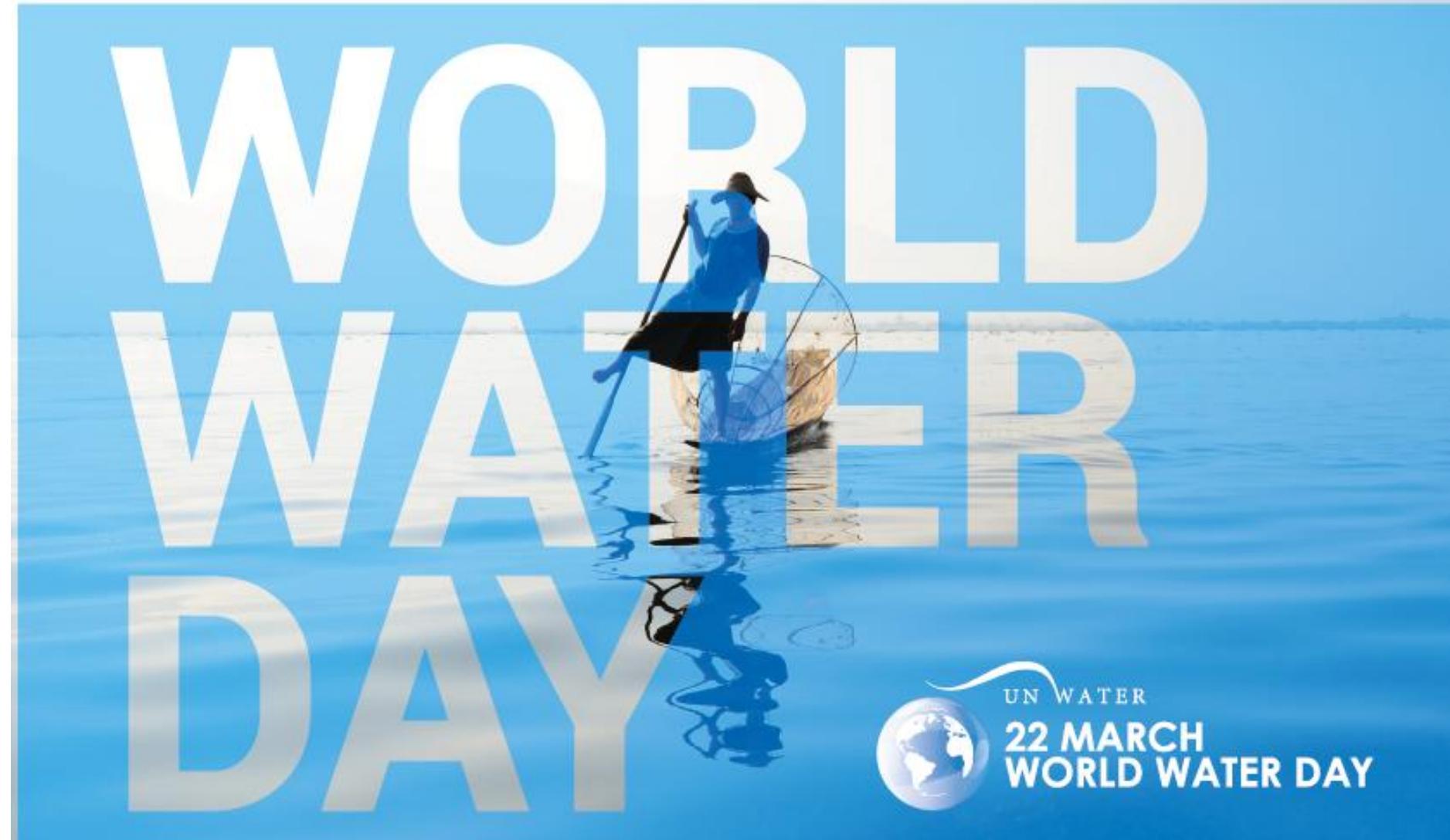


European
Commission
Marie
Skłodowska-Curie
Actions

OPEN ACCESS
FREE TO
DOWNLOAD

WORLD
WATER
DAY
2026

WATER
AND
GENDER
EQUALITY



SUMMARY

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Methodological challenges



EXTERNAL DATASET

PCR-GLOBWB 2.0

PCRaster GLOBal Water Balance model: version 2.0



Data from the database Aqueduct WRI (4.0) (original data from the dataset GLOBWB 2.0 Water Balance Dataset) , Water Footprint Network Dataset, FAO Cropwat dataset

VARIABLES:

- WATER STRESS
- GROUNDWATER TABLE DECLINE
- DROUGHT RISK
- BASELINE WATER DEPLETION (4.0)
- BASELINE WATER STRESS (4.0)

- OLD DATA
- MISSING DATA
- ITALIAN DROUGHT 2022 2023 NOT COVERED
- GROUNDWATER NOT ENOUGH EXPLORED

regional export and Trade data (UN TradeMap). Copernicus (European Dataset)
- ISTAT data not available

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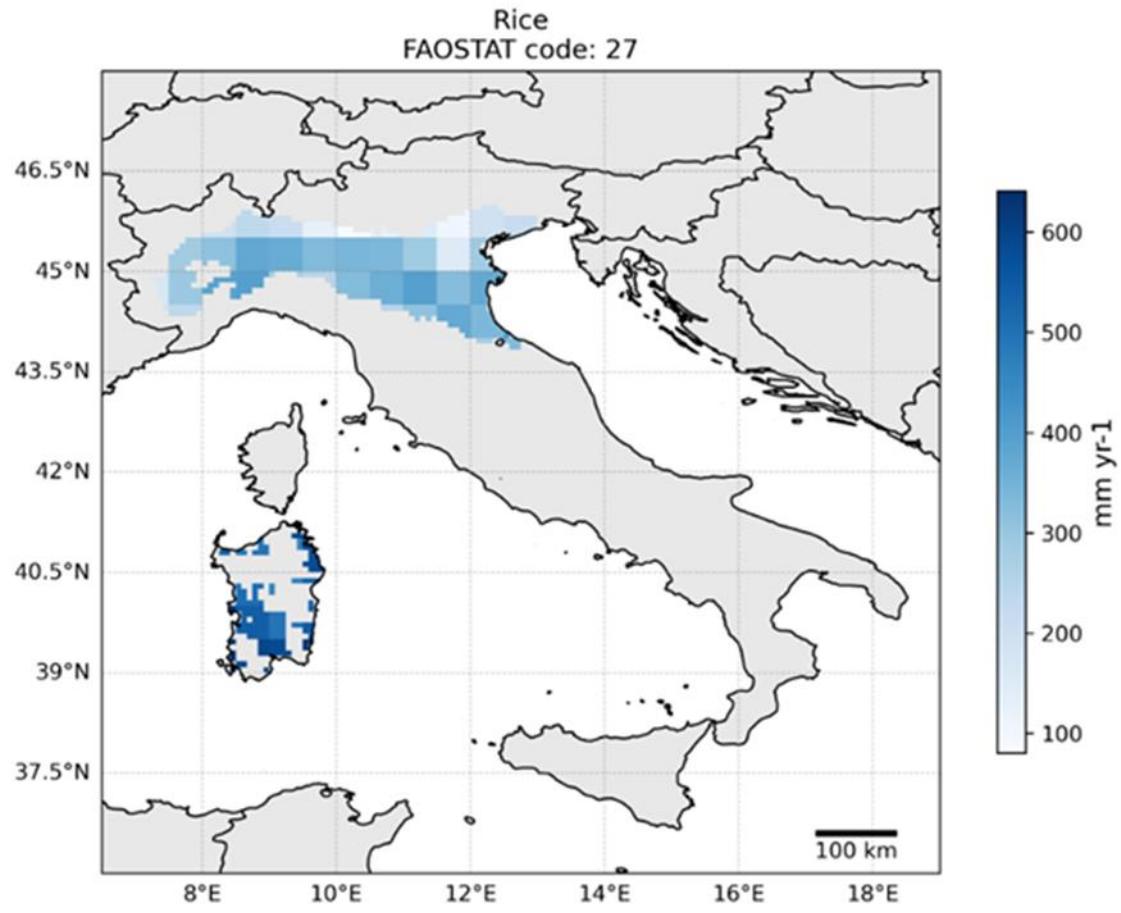
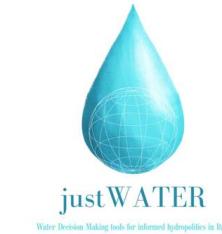


USE OF WATER FOOTPRINT DATA ON ITALY: EXAMPLE OF NATIONAL USE OF THE DATASET: BY CROPS: RICE

Water Footprint Data for Italy
from Water Footprint Dataset
(Source: Myalik et al 2024/May
2025 update): out of the
National Water Footprint of
Production, JustWATER has
extrapolated the irrigated blue
component, which is
representing irrigation and
excluding rainwater
(green water) component

Crop production (irrigated blue water footprint) has been performed for Italy for 175 crops and is available under image file and Georeferred file in GitHub and ZENODO
id:francescagreco78
from 31° dec 2025.

Challenges: how co – creating viable solutions and not imposing prescriptions (like export substitution or crop substitution)



IRRIGATED RICE PRODUCTION IN ITALY / water footprint of irrigation; illustrated value is «blue irrigated water footprint of production».

This map shows how **rice production in Sardinia requires more blue water irrigation compared to the Po Valley**, which receives more precipitation, compared to Sardinia.

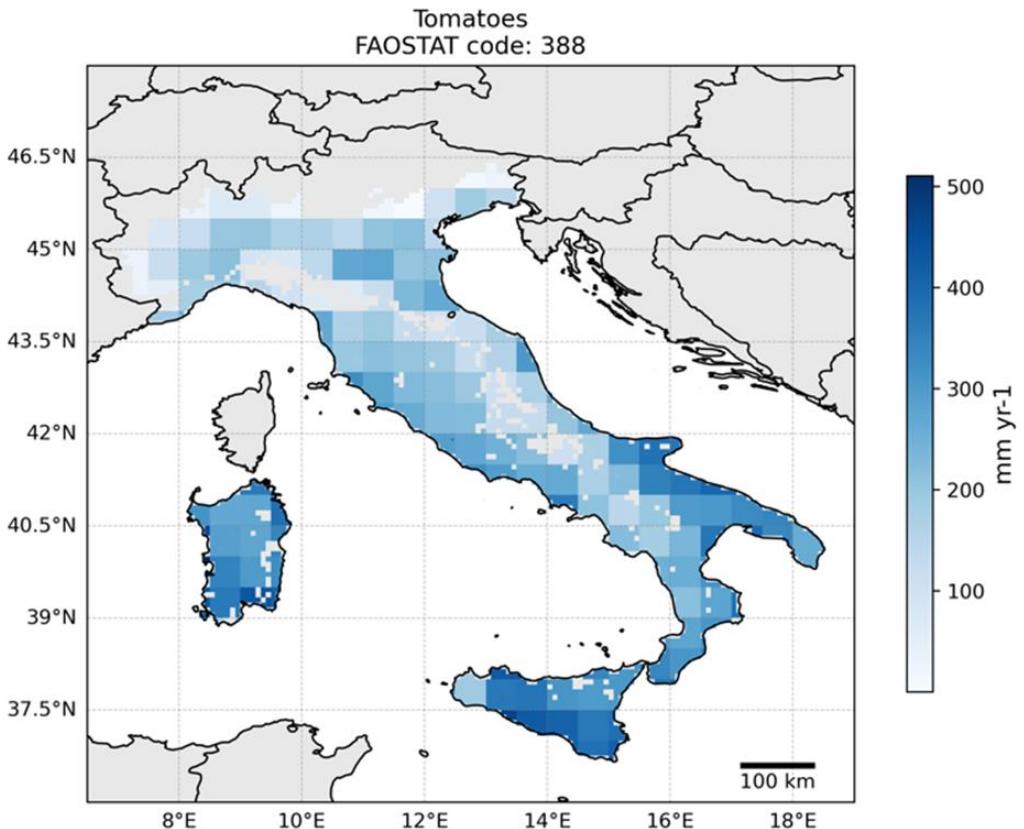
The Po Valley therefore benefits from more greenwater coming from rain and soil moisture.

Crop production (irrigated blue water footprint) has been performed for Italy for 175 crops and is available under image file and Georeferred file in GitHub and ZENODO id:francescagreco78 from 31° dec 2025.

Data plotted for Italy from Water Footprint Dataset (Mialyk et al. 2024 / May 2025 update) Data source: Water Footprint Dataset (Myalic et al 2024/ May 2025 Update)

Challenges: how co – creating viable solutions and not imposing prescriptions (like export substitution or crop substitution)

USE OF WATER FOOTPRINT DATA ON ITALY: EXAMPLE OF NATIONAL USE OF THE DATASET: BY CROPS: TOMATO



IRRIGATED TOMATOES IN ITALY: «blue irrigated water footprint of production».

This map shows how tomato production in Sicily and Puglia requires much more blue water irrigation compared to the Po Valley.

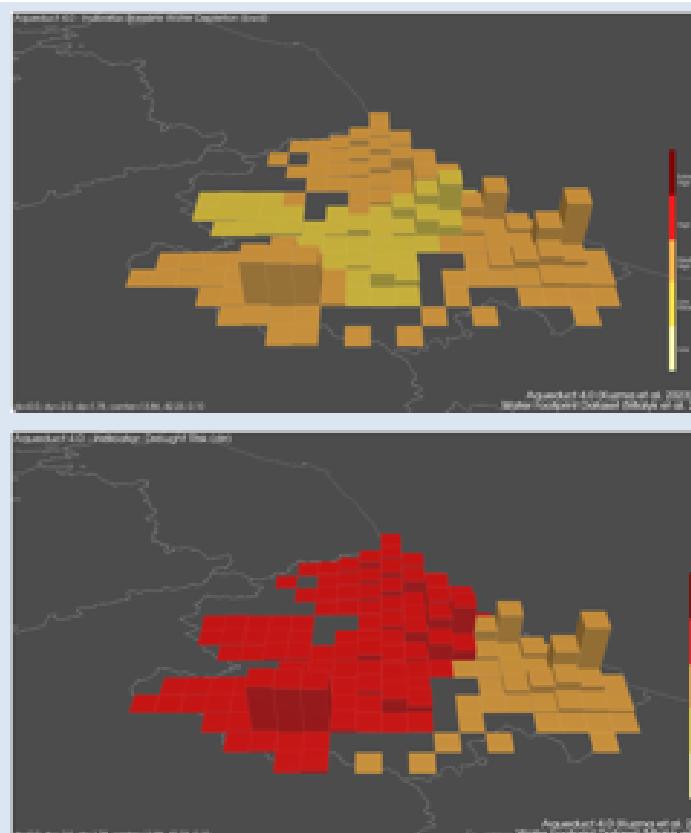
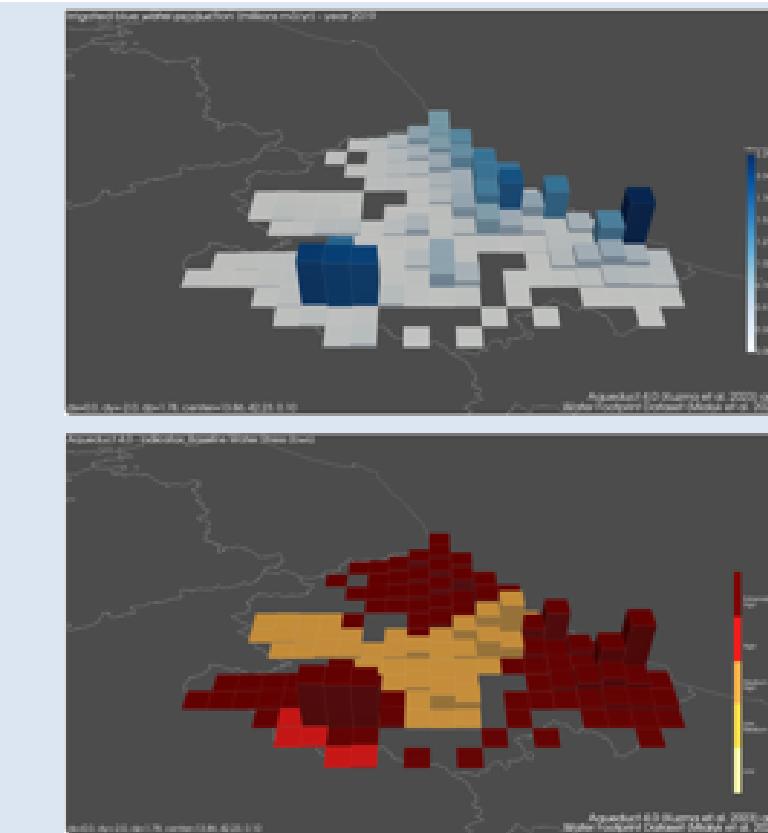
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USE OF WATER FOOTPRINT DATA ON ITALY: EXAMPLE OF NATIONAL USE OF THE DATASET: BY REGION

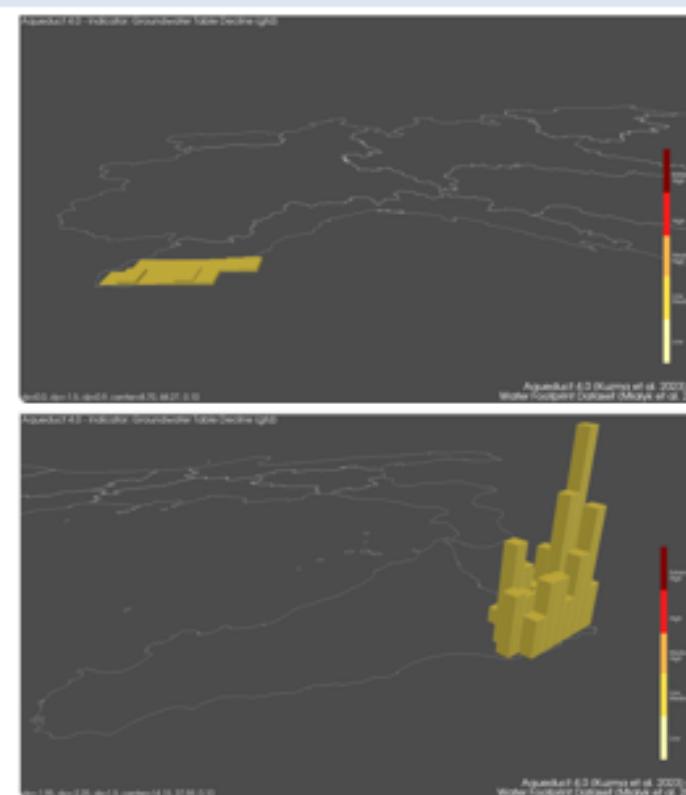


EXAMPLE FOR THE ABRUZZO REGION

Analysis of highest volumes of water footprint of irrigated blue water by region can be indicative of «hot spots». This visualization has been performed for the South, East, West and North angle of each of the 20 regions of Italy, to avoid blind spots. For each region it is possible to obtain a simple water footprint of irrigated blue of agricultural production (top left) and have different values when coming to water depletion (top right) , drought risk (down right) and water stress (down left). Source: Aqueduct 4.0 dataset.

Irrigated blue water footprint) has been performed for Italy all of the 20 regions and plotted with the WATER SCARCITY, WATER DROUGHT RISK, WATER DEPLETION and WATER TALE DECLINE and it is available under image file and Georeferred file in GitHub and ZENODO id:francescagreco78 from 31° dec 2025.

EXAMPLE OF NATIONAL USE OF THE DATASET: GROUNDWATER TABLE DECLINE IN SICILY AND LIGURIA REGION : TOMATOES AND FLOWER PRODUCTION RELYING ON VULNERABLE AQUIFERS



FOCUS ON GROUNDWATER TABLE DECLINE

Analysis of groundwater table decline have highlighted how the production of tomatoes and cherry tomatoes in Sicily rely on a decline from 0 to 2 cm per year of their aquifers.

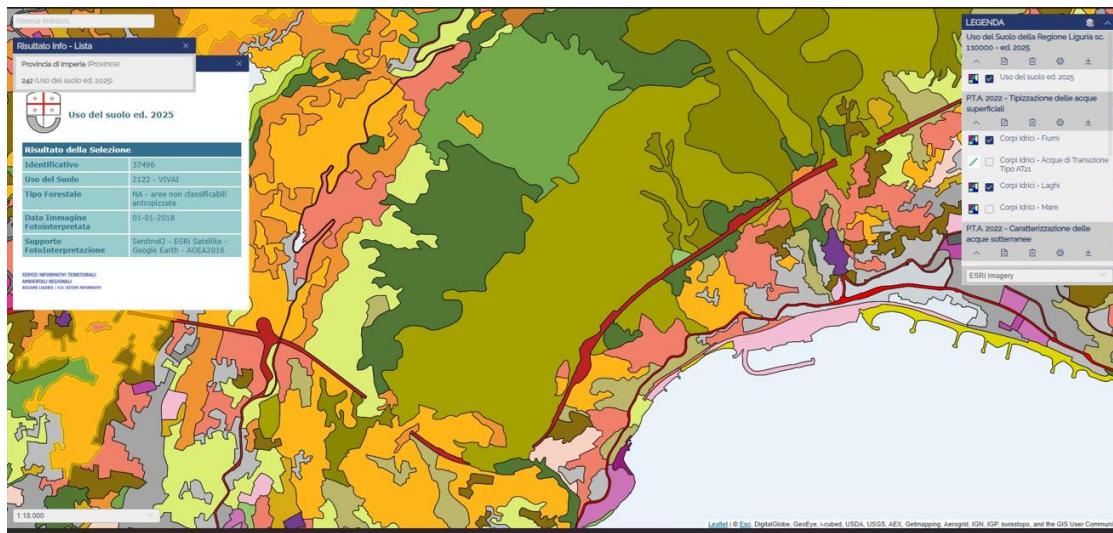
Same aquifer vulnerability is recorded for agriculture in Liguria, in particular, what CORINE LAND COVER marks as «VIVAL», corresponding to the production of flowers in the Liguria region, but the volumes of water abstraction are lower compared to those of Sicily. Source: Aqueduct 4.0 dataset, Water Footprint Dataset (Mialyk 2024/ 2025 update)

Irrigated blue water footprint) has been performed for Italy all of the 20 regions and plotted with the WATER SCARCITY, WATER DROUGHT RISK, WATER DEPLETION and WATER TABLE DECLINE and it is available under image file and Georeferred file in GitHub and ZENODO id:francescagreco78 from 31° dec 2025. Each region has been visualized using PARAVIEW software from North, South, East and West to avoid blind spots

References

WATER FOOTPRINT DATASET: Mialyk, O., Schyns, J. F., Booij, M. J., Su, H., Hoogeboom, R. J., & Berger, M. (2024). Water footprints and crop water use of 175 individual crops for 1990–2019 simulated with a global crop model. *Scientific data*, 11(1), 206;

AQUEDUCT 4.0: Kuzma, S., M.F.P. Bierkens, S. Lakshman, T. Luo, L. Saccoccia, E. H. Sultanudjaja, and R. Van Beek. 2023. "Aqueduct 4.0: Updated decision-relevant global water risk indicators." Technical Note. Washington, DC: World Resources Institute. Available online at: doi.org/10.46830/wrin.23.00061.



GEOSPATIAL TURN OF VIRTUAL WATER ENQUIRY



justWATER

Water Decision Making tools for informed hydropolitics in Italy

- from HYDRO HEGEMONY THEORIES
(Zeitoun & Warner 2006)
- TO VIRTUAL WATER HEGEMONY (Sojamo et al 2012)
- RECONNECTING THE DOTS OF LOCAL SUPPLY CHAINS : GEOSPATIALITY OF WATER & FOOD PRODUCTION / WATER & FOOD TRADE

GEOSPATIAL TURN OF VIRTUAL WATER ENQUIRY

NEW THEORETICAL FRAMEWORK:
WATER HEGEMONS AND WATER OPPRESSED
INVESTIGATION (WATER SUBALTERNS / OPPRESSED)

■ HYDRO SOCIAL CYCLE OF VIRTUAL WATER PARADOX
happens when overabstraction is caused by an export-led
agricultural production from vulnerable water bodies
**JUST WATER GEOSPATIAL TOOLS DO HELP THE INVESTIGATION OF
HYDRO SOCIAL TERRITORIES OF ITALIAN WATER ABSTRACTION,**
exploring

**POWER , WATER JUSTICE AND WATER EXTRACTIVISM ENQUIRY
PROVIDING A GEOSPATIAL SUPPORT**

justWATER

Water Decision Making tools for informed hydropolities in Italy

-- BUILDING NARRATIVES FOR THE WATER-SUBALTERNS AND THE
WATER OPPRESSED for a **MORE JUST WATER**
CONSUMPTION



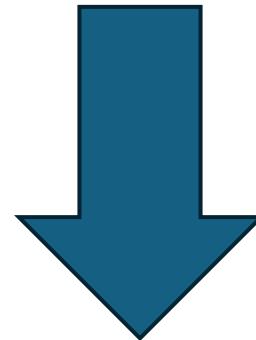
GEOSPATIAL TURN OF VIRTUAL WATER ENQUIRY



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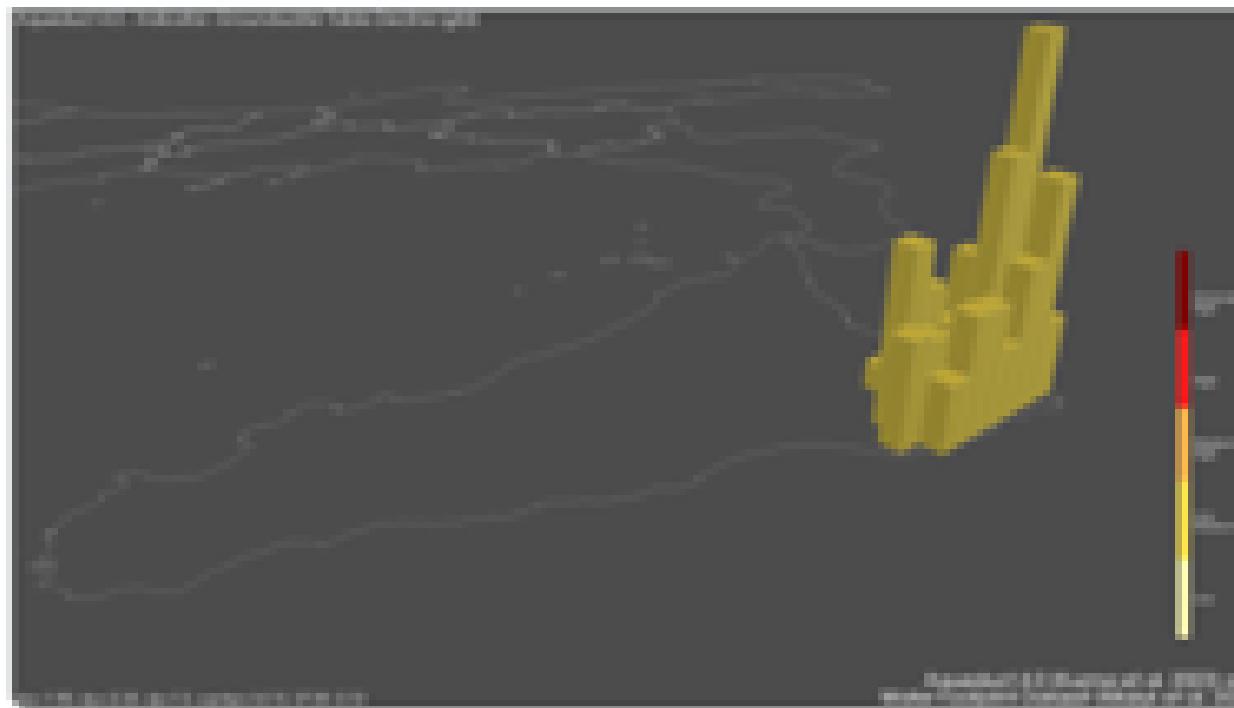
THEORETICAL OUTPUT OF JUSTWATER



PUBLICATION FOR «WORLD DEVELOPMENT»
(reviews being finalized in December 2025)

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2. **Gender component** : Women in Water in Italy project component
3. **Methodological challenges**
4. **Challenges**: how co – creating viable solutions and not imposing prescriptions (like export substitution or crop substitution)
5. **the GEOSPATIAL outputs of JustWATER**
6. **Providing informed decision making for policy makers**:





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JustWATER as a tool to HELP BUILDING NARRATIVES OF WATER AND AGRICULTURAL PRODUCTION

SILENT NARRATIVES

HYDRO SOCIAL NARRATIVES OF VIRTUAL WATER AND WATER CONSUMPTION



**OUTPUT : PRODUCTION
OF A GEO LOCATION
MAP FOR ITALY
REGARDING ALL
VULNERABLE WATER
BODIES UNDER HIGH
IRRIGATION USE IN
VOLUMES (blue water
footprint of irrigation) . This is
irrigation water, not
considering rain)**

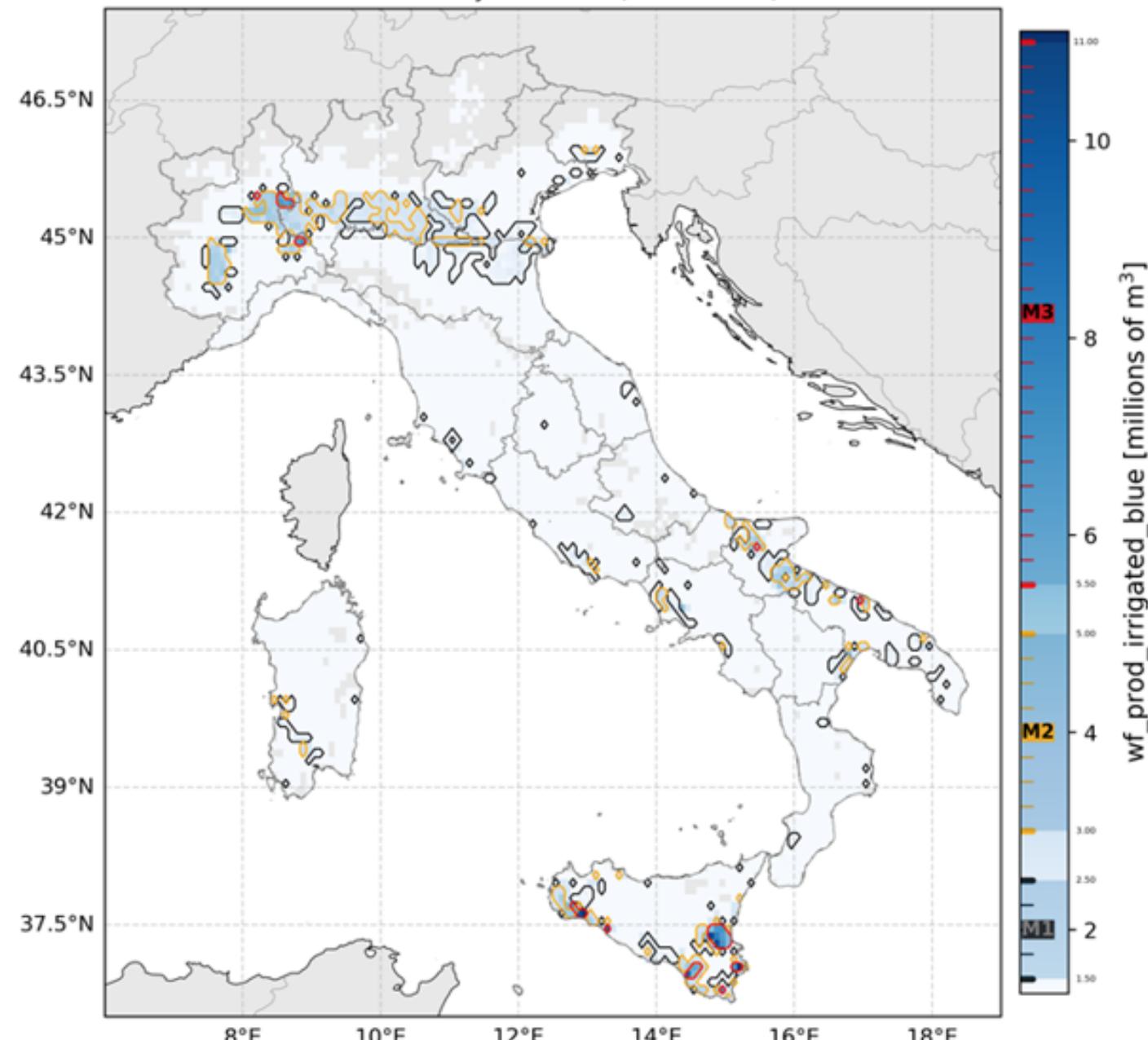


**Mapping intersections:
Medium high levels of
Blue irrigated water,
high levels and
extremely
high levels: SEE MAP**



**Connecting the dots:
overlapping vulnerable
water bodies with crop
production and creating
local water cycle
narratives.
Power dynamics of
food, irrigation and
food trade.**

Source: wf_prod_irrigated_blue, year 2019
Clustered by intervals (M1-M2-M3)



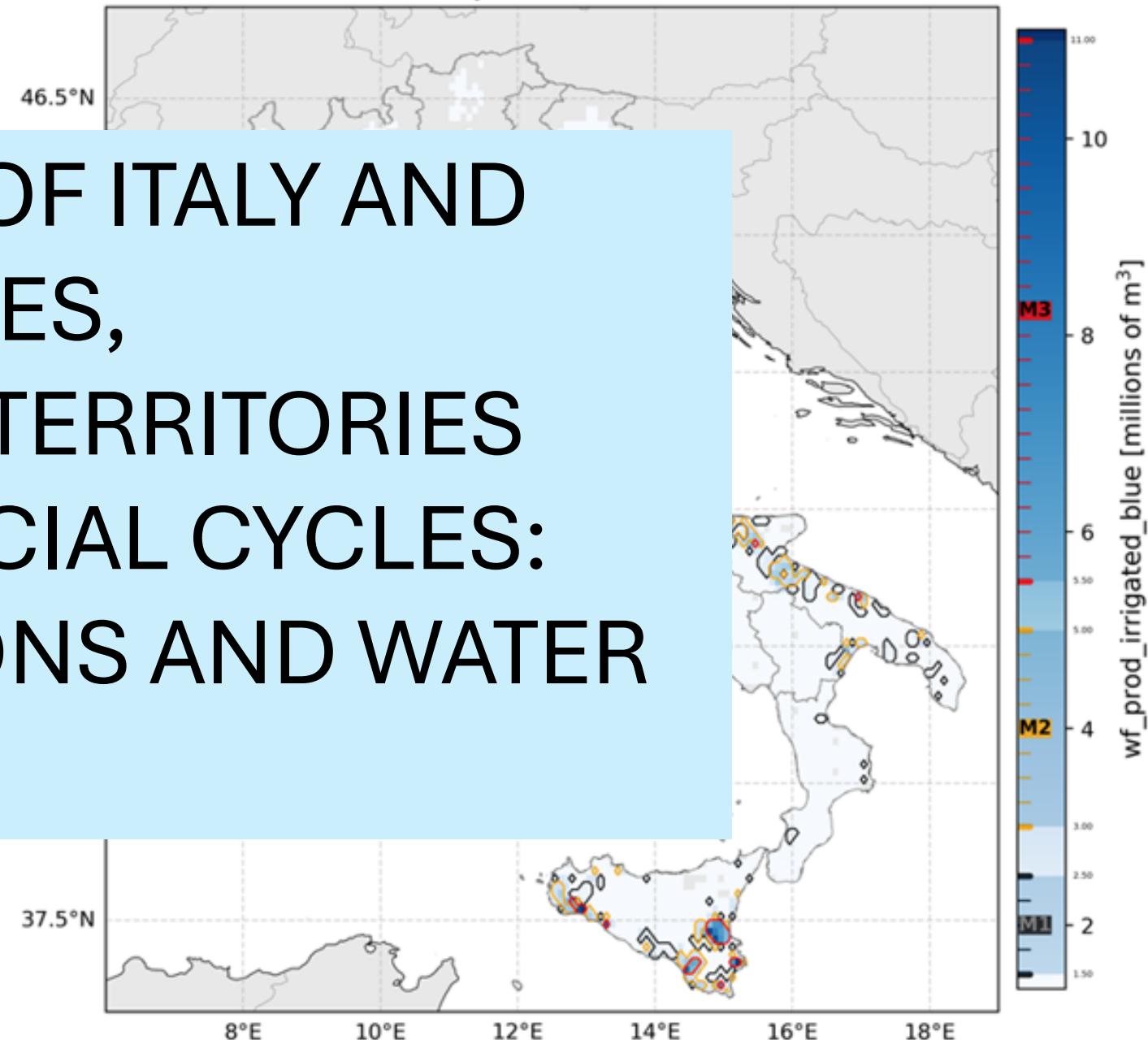


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OF A GEO LOCATION
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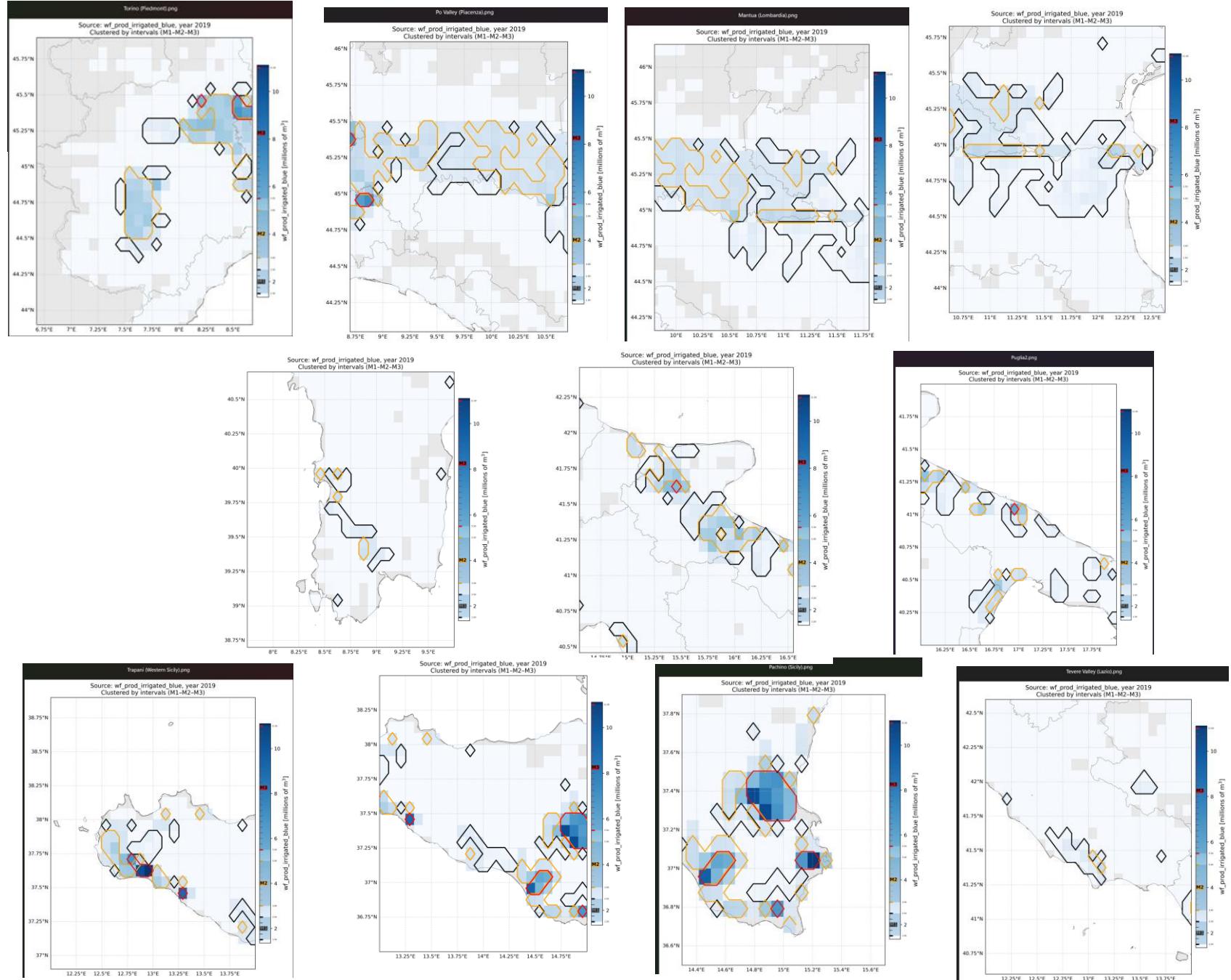
Source: wf_prod_irrigated_blue, year 2019
Clustered by intervals (M1-M2-M3)

WATER BODIES OF ITALY AND THEIR NARRATIVES, GEOGRAPHIES, TERRITORIES AND HYDRO SOCIAL CYCLES: WATER HEGEMONS AND WATER SUBALTERNS

1000 trade.



MORE THAN 600 GEO LOCALIZED POINTS HAVE BEEN CREATED AND ARE AVAILABLE OPEN ACCESS FOR PUBLIC SEARCH. FOR EACH OF THEM, THE RESOLUTION IS 8 KM X 8 KM ; THIS ALLOWS PRECISE TERRITORIAL CONFIGURATION OF WATER IRRIGATION AND USE, WITH INFORMATION ON CROPS AND THE POSSIBILITY TO LINK IT TO THE CORRESPONDING WATER BODY OR TO OVERLAP IT WITH CORINE LAND COVER (available from 31st of December 2025, ZENODO and GITHUB repository called : JustWATER . ID: francescagreco78



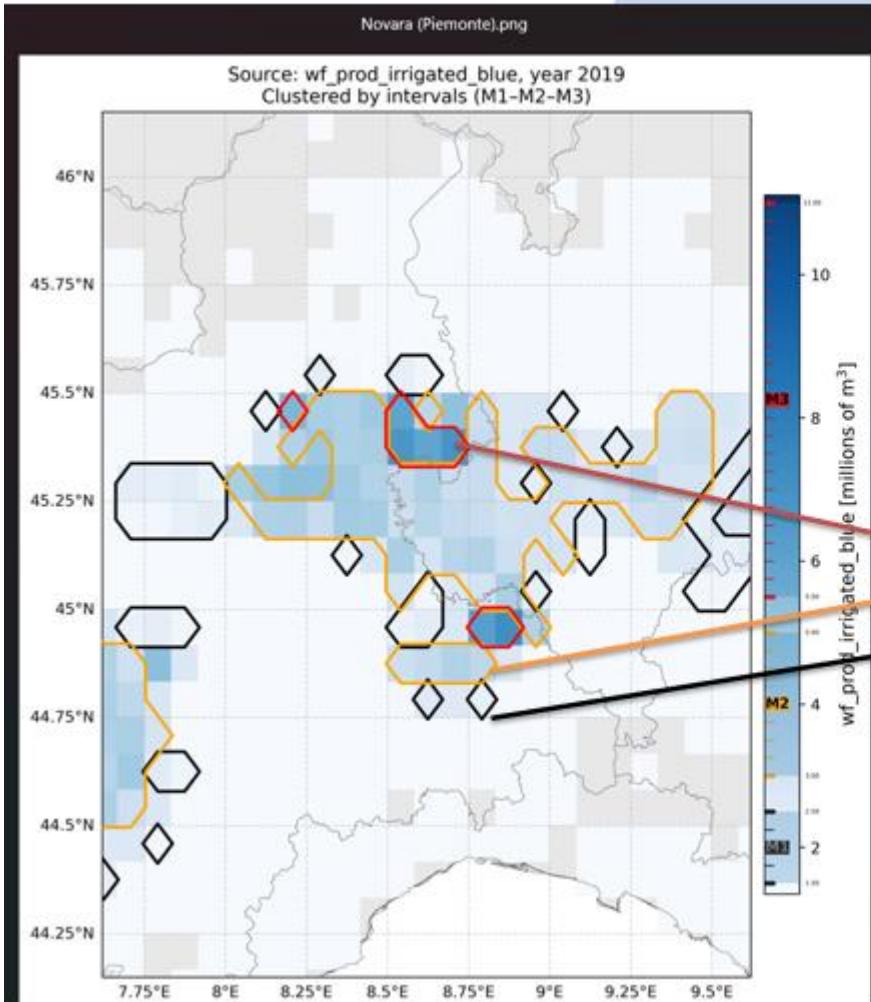


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justWATER

Water Decision Making tools for informed hydropolitics in Italy



How to read the map of water bodies location and irrigation intensity

RED CLUSTER: from 5.50 to 11 Million Cubic Meter per year

ORANGE CLUSTER: from 4 to 5.50 Million Cubic Meter per year

BLACK CLUSTER: 1.5 to 4 Million Cubic Meter per year

The referral year is 2019 (latest available year for Water Footprint dataset) .
Cluster shape may vary according to the extension of the area.



Marie
Skłodowska-Curie
Actions



WATER IS NOT JUST WATER:
WATER IS FOOD, IDENTITIES, LANDSCAPES, ...



GROUNDWATER
TABLE
DECLINE



Co – creating
viable solutions
with farmers
and not imposing
prescriptions



FARMERS WILL SAVE THE WORLD !

VIRTUAL WATER CONTENT





JUST WATER PROJECT IS FUNDED BY THE EU UNDER THE MARIE SKŁODOWSKA CURIE FELLOWSHIP ACTION

Call: **HORIZON-MSCA-2022-PF-01** (MSCA Postdoctoral Fellowships 2022)
Topic: **HORIZON-MSCA-2022-PF-01-01** Type of Action: **HORIZON-TMA-
MSCA-PF-EF** (HORIZON TMA MSCA Postdoctoral Fellowships - European
Fellowships) Project number: **SEP-210874497** Project acronym:
JustWATER

<https://justwater-0cb8db74bf24.herokuapp.com/>

