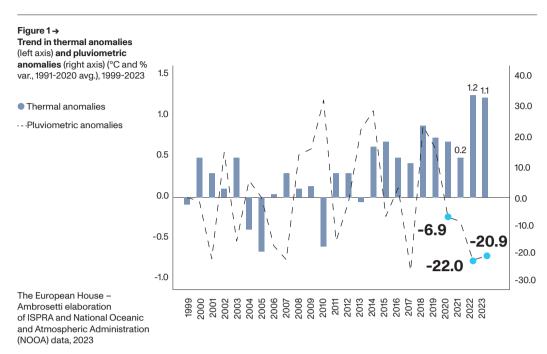
→ The Community's Mission

To be the multi-stakeholder think tank to develop scenarios, strategies and policies in support of the extended water supply chain in Italy and its development to aid Italy in becoming a European and world benchmark

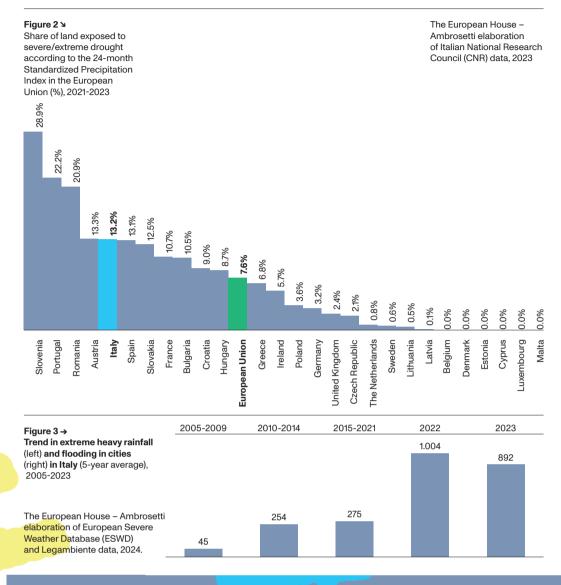
Why, today, we need to talk about water

- → The year 2023 saw a double negative all-time record on a global scale: July 3, 2023 registered the global record temperature, which was immediately surpassed on July 4, 2023
- → Italy is not immune to climate change. The year 2022 was the hottest and driest in history and 2023 confirmed this trend, with temperatures up +1.12°C on the period



→ Italy is also one of the Countries most exposed to water stress in Europe. Together with Cyprus, Belgium, Greece, Spain and Portugal it is one of the top in the EU whose surface area has a level of water stress greater than 80%

- → Italy ranks 5th among EU-27+UK Countries for the share of its territory exposed to severe/extreme drought in the last two years
- → But rainfall is not only less-frequent, it is also becoming more intense. Intense rainfall peaked at 1,004 events in 2022, with an annual growth of +50.2% since 2005
- → In 2022, the impact of extreme events on crops resulted in a loss of €5.6 billion



Value of Water

Conceptual map of the Study

5th Edition



Main partner

The European House Ambrosetti

2 Snapshot of water management in Italy and value of the extended value chain

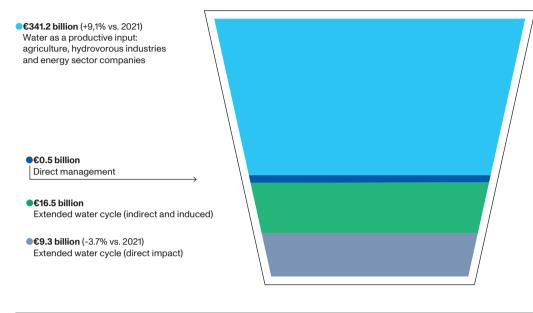
- → To provide an overview of light and dark areas of water resource management in Italy compared with the rest of Europe, the Community created a composite indicator
- which includes 39 Key Performance Indicators (KPIs) that are objective and measurable over time → Water impacts on 10 of the 17 United Nations Sustainable Development Goals and 53 of the 90 targets
- → Italy is ranked 19th out of the 28 Countries included in the "Value of Water for Sustainable Development" (VWSD) 2024 index, with a score of 5.3
- → Italy rose +2 places in the 2024 VWSD compared with the adjusted 2023 VWSD

The European House -Figure 4 🕨 2024 Value of Water for Ambrosetti elaboration, 2024 (EU-27+UK Countries; scale from 1=min to 10=max) 2024 ranking vs. 2023 (adj.)

- → The extended water value chain involves 26 2-digit ATECO codes and 74 3-digit sub-codes
- → Water is a primary productive input for 1.4 million agricultural enterprises, approximately 330,000 water-intensive manufacturing companies and over 10,000 energy sector companies
- → In 2022, the extended water cycle generated €9.3 billion in Added Value, with an average annual
- growth rate of 3.8% over the period 2010-2022, double the manufacturing rate and Italian GDP → Without water resources, 19% of Italian GDP could not have been generated

Figure 5 > Value added generated by the extended water supply chain in Italy, 2022

The European House Ambrosetti elaboration of ISTAT, AIDA Bureau van Dijk and OpenBDAP data, and sector interdependence tables, 2024.



Water was the catalyst for the generation of €367.5 billion of Added Value in Italy in 2022 (+8.7% vs. 2021)

How to promote a new water culture in Italy

2nd quartile

The influence of education

→ Lack of awareness and perception of the Italian public regarding the real value of water as a resource is one of the main reasons for its high consumption levels

→ The Community decided to take an **active role** in educating the population, starting with young people, through a pilot project in Italian schools that involved over 5.000 students

4th quartile

The European House -Figure 6 → **Drinking water withdrawals** per inhabitant in EU-27+UK countries of Eurostat data, 2024. m³ per inhabitant), 2021 or latest 81,7 EU-27+UK average Figure 7 → Left: Response to the question: 6.3 > 60 liters 'How much water do you think you consume each day in your daily activities?"; Right: Response 31-60 liters 3.9 to the question: "On average, an inhabitant of Italy consumes each

93.7% Value of Water for Italy Community the population has NO perception survey of the Italian public, 2024. of their water consumption

●Lower than the average ●In-line with the average

enabling factor to promote the sustainable and circular transition of the extended water supply chain through processes and products that control withdrawal and make the available infrastructure more efficient, including from the standpoint of energy use. From this perspective, the "Smart&Digital Water" model ol am unable to evaluate this oHigher than the average is the perfect complement for facing the challenges the sector has taken on

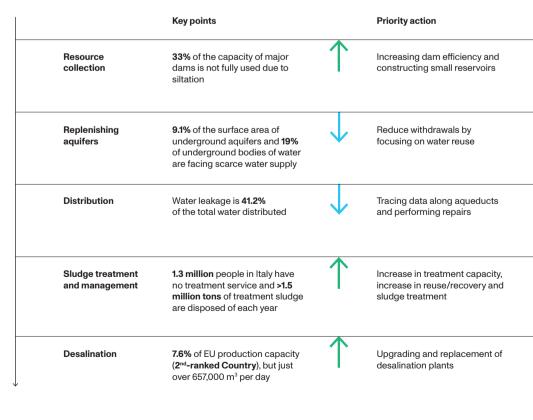
→ **Technology** has the potential to be the

→ Technological innovation refocuses attention on data, thus opening the way to the publication of a national water budget. According to Community findings, only 4 out of 7 Italian Basin Authorities have published an accessible water budget, the most recent being in 2020

11-30 liters 6.4 day 215 liters of water for their home activities. Given this information, how much Up to 10 liters 8.3 do you think you consume each day? (% total), December 2023 am unable

"Circular Water" and "Smart&Digital Water" models

→ To guarantee the long-term availability of water through promoting water efficiency in all phases of the value chain, the "Circular Water" model must be adopted



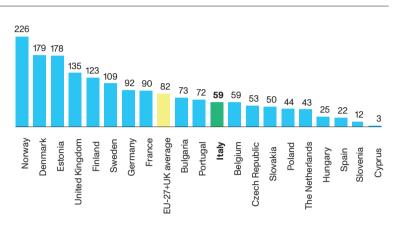
4 Investing today for water tomorrow: the role of investment for the competitiveness of the water value chain in Italy

- → Over the past five years (2019-2023), Italian industrial operators are estimated to have invested an average of 59 Euros per capita.
- → Approximately 80% of water sector investment is financed by Italian water rates. With a rate of 2.1 €/m³ in 2022, Italy ranks 19th in the EU (nearly five times lower than Denmark's).
- → There is a positive correlation between water rates and investment levels in the water sector: an additional €1 in the water rate correlates to €15 more in investment per capita.
- → Public funding and private financing are key elements that can work together to promote the sustainable transition of the water sector by contributing to increasing the level of investment.



Ambrosetti elaboration

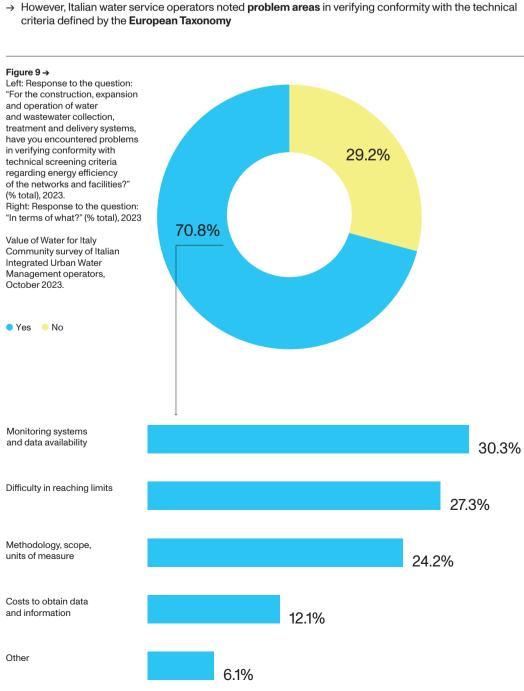
of EurEau and Utilitatis data, 2024.



- → The NRRP has allocated €7.8 billion in funds directly connected with initiatives for more efficient and sustainable management of water resources in Italy
- → The funds are not sufficient to bridge the current gaps. To achieve the European average of per capita investment in the Integrated Urban Water Management sector, a further €1.4 billion per year is required (more than double the €580 million per year provided for in the NRRP), and to combat climate change and for the resilience of irrigated agricultural ecosystems, nearly a further €1 billion would be required (compared with the €630 million planned).

SUSTAINABLE FINANCE

- → Sustainable finance has the potential to adequately stimulate economic growth in some sectors
- → To support growth that is truly in-line with the provisions contained in the United Nations SDGs, the **European Taxonomy** was created



5 What needs to be done to reinforce the development of the extended water value chain: Agenda for Italy

