

10 December 2023 – COP 28 UAE 17:30 GST

Revolutionizing Sustainability: Water and

Dr. Filippo Verre

Executive Director

www.abaqua.it f in YA R^e O

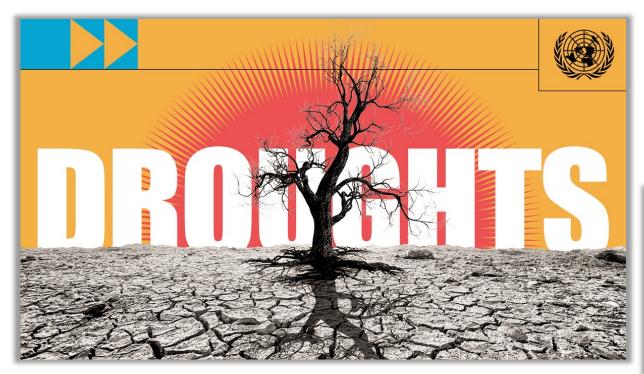
AB AQUA - Centro Studi Idrostrategici



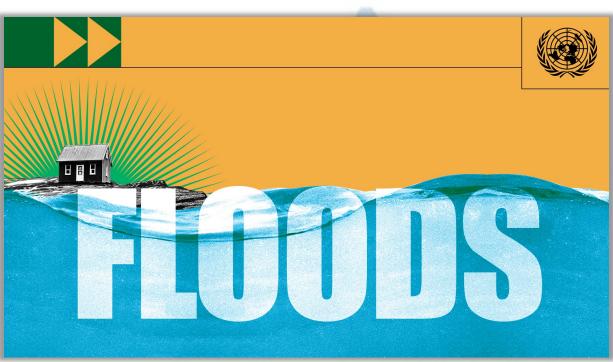
- About two billion people worldwide don't have access to safe drinking water today (<u>SDG Report 2022</u>), and roughly half of the world's population is experiencing severe water scarcity for at least part of the year (<u>IPCC</u>). These numbers are expected to increase, exacerbated by climate change and population growth (<u>WMO</u>).
- Only 0.5 per cent of water on Earth is useable and available freshwater and climate change is dangerously affecting that supply. Over the past twenty years, terrestrial water storage – including soil moisture, snow and ice – has dropped at a rate of 1 cm per year, with major ramifications for water security (<u>WMO</u>).
- Water supplies stored in **glaciers** and **snow** cover are projected to further decline over the course of the century, thus reducing water availability during warm and dry periods in regions supplied by melt water from major mountain ranges, where more than one-sixth of the world's population currently live (<u>IPCC</u>).
- Sea-level rise is projected to extend salinization of groundwater, decreasing freshwater availability for humans and ecosystems in coastal areas (IPCC).



Water scarcity: a generational problem



Chennai Water Crisis (2019)

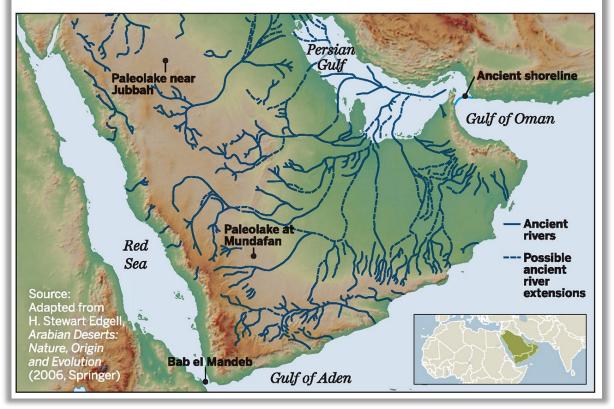




The Arabian Peninsula in the Pleistocene

Making the desert bloom

Researchers are working to further detail Arabia's ancient rivers and lakes.





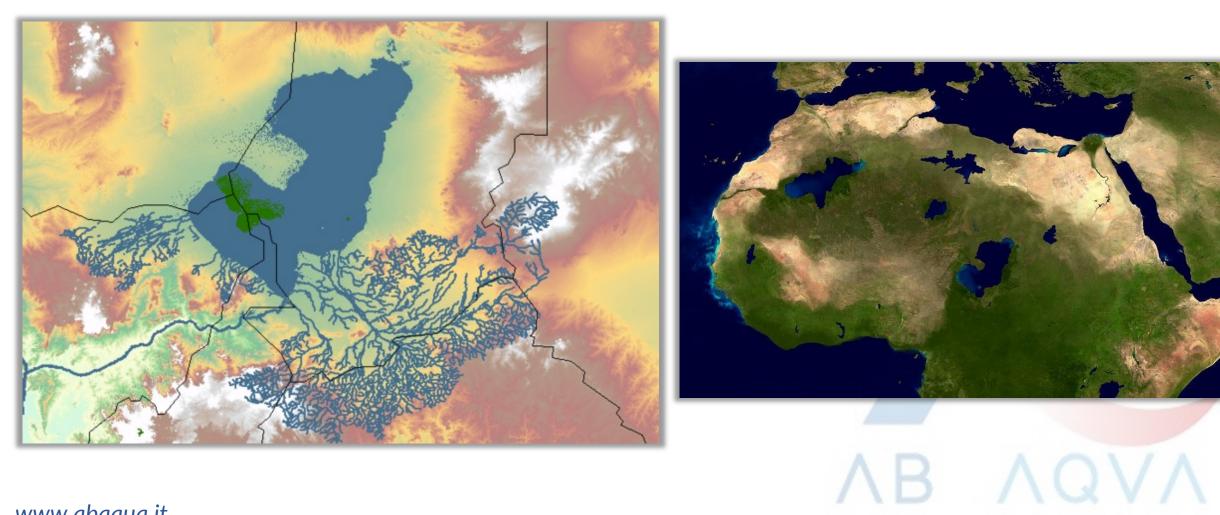


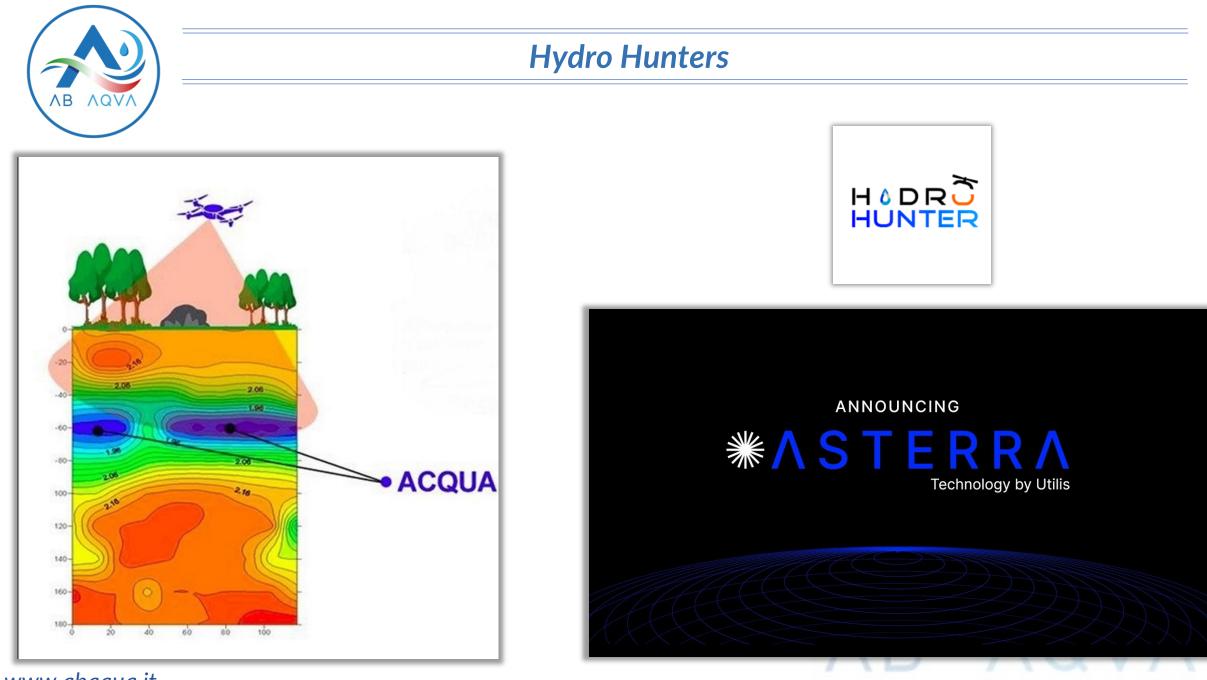


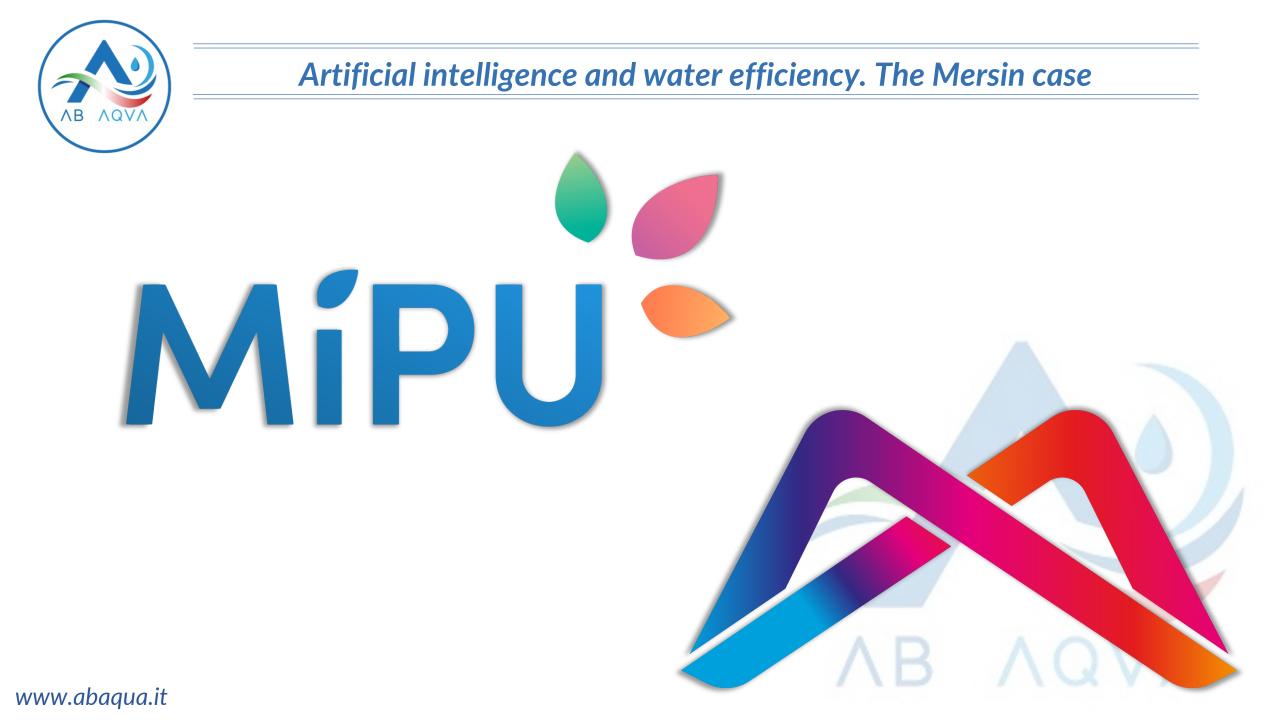




Mega Chad









Artificial intelligence for water

	AI FOR WATER	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
01	COLLECT DATA EFFICIENTLY	
02	PRESENTS MEANING FULL DATA INSIGHTS	
03	WATER TREATMENT	
04	DETECT LEAKAGE	
05	AVOID EXPENSIVE MAINTENENCE	
06	WATER MANAGEMENT IN HOMES & BUILDINGS	

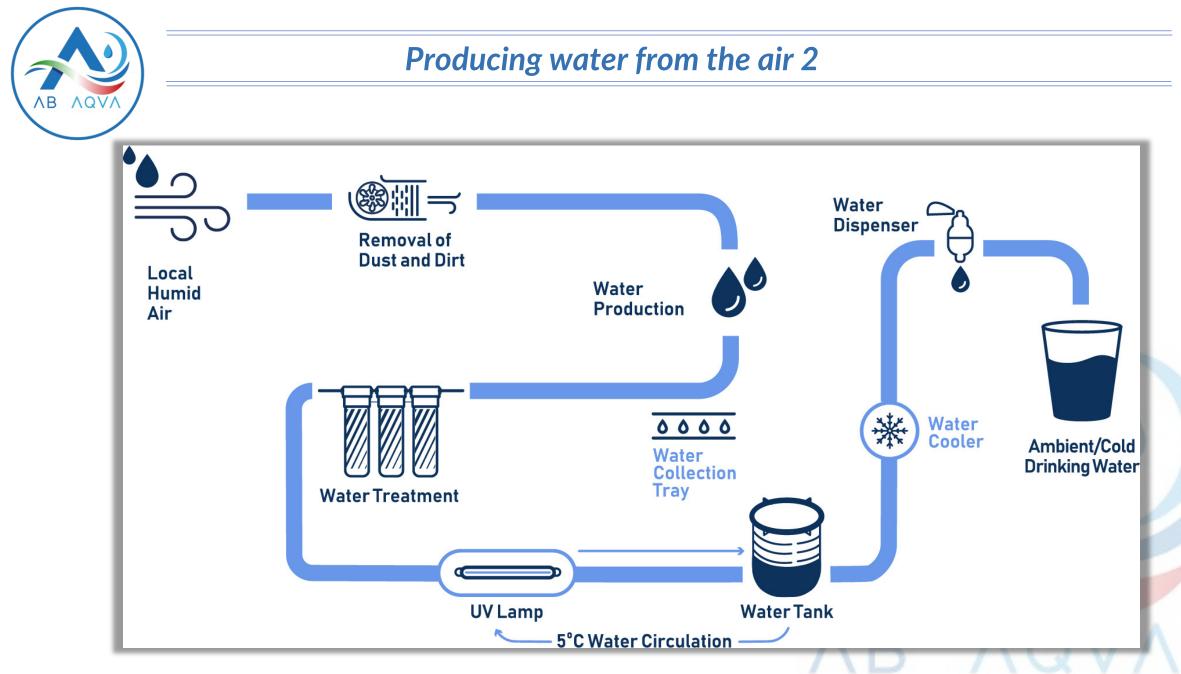


Producing water from the air





AB AQVA





Thank you for your attention

AB AQUA - Centro Studi Idrostrategici

