AI *for* Access to Water

Water is essential for life, yet managing it sustainably has become one of the greatest challenges of our time. Today, over **2 billion people** still lack access to safely managed drinking water, and by 2030, global water demand is expected to exceed supply by **40%** if we don't change course. Climate change, rapid population growth, and aging infrastructure are pushing global water systems to the edge. This is where Artificial Intelligence (AI) offers transformative solutions — turning data into action to help us monitor, manage, and safeguard water resources smarter & faster than ever before.

AI can analyze vast streams of data from satellites, climate models and sensors to predict droughts, floods, and water demand with up to **90% accuracy.** In cities, where **up to 30% of water is lost through leaks,** AI can identify problems, slashing response times & minimizing waste. In agriculture, which consumes nearly **70% of global freshwater**, AI-driven irrigation can cut water use by up to **30%**, optimizing every drop while securing food production. To ensure water quality, AI can detect contamination — allowing quick action to protect public health, especially in rural areas where **80% of people rely on untreated water sources.**

Water is Life

Technology & Action

AI turns raw climate and water data into tangible and timely action, protecting communities from droughts and floods.

Smart Water Systems

With AI, cities can detect water leaks and wastage faster, and farmers can irrigate efficiently — saving water and energy.

Clean Water for All

AI helps monitor water quality in real time, keeping drinking water safe for communities worldwide, especially women and children.

GLOBAL YOUTH AI ADVISORY BODY