

PLUMBING CONNECTS HEALTH AND WEALTH



Plumbing systems connect homes, workplaces, and public services to safe water and sanitation, supporting economic prosperity, public health, and environmental sustainability.

- Plumbing innovations reduce water waste and lower utility costs across connected systems, helping businesses and households operate more efficiently.
- Skilled plumbing professionals maintain the networks that enable essential services such as health care, education, and commerce through reliable water supply and wastewater management.
- Investment in professional plumbing infrastructure strengthens connected systems, delivering public health benefits, reduced water waste, and economic development.



FACTS & FIGURES



3.68
jobs created

Each job in the U.S. water sector creates 3.68 jobs nationally (U.S. Department of Commerce).



3 of 4
global jobs

3 of 4 global jobs depend on water availability (UN).



\$4.3
return

Every dollar invested in water/sanitation yields \$4.30 in economic benefits (UN).



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PLUMBING CONNECTS INNOVATION



Plumbing drives the transition to sustainable water management by connecting technology, professional expertise, and global best practices.

- Evidence-based plumbing standards provide a common framework that allows technologies such as gray water systems, rainwater harvesting, and smart water management to be safely integrated into existing systems.
- Global plumbing innovations, adapted to local conditions, strengthen connected water systems and help address water scarcity and water quality challenges.
- Ongoing upskilling and professional development connect plumbers to evolving technologies and enable long-term career growth and specialization.



FACTS & FIGURES



74%

Between 2015 and 2024, global access to safely managed drinking water increased from 68% to 74% of the population. (UN)



5.0

billion people

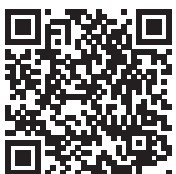
WHO-UNICEF's 2025 JMP update reports that from 2000–24, about 2.2 billion people gained access to safely managed drinking water and 2.8 billion gained safely managed sanitation. (UN)



8.7

trillion gallons

8.7 trillion gallons: Water saved since 2006 through U.S. EPA WaterSense partners, resulting in \$207 billion in utility bill savings. (US EPA)



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PLUMBING CONNECTS OPPORTUNITIES



The plumbing industry offers diverse career paths that combine technical skill, problem-solving, and the opportunity to make a meaningful difference.

- The growing global demand for skilled plumbers reflects the universal need to build, maintain, and modernize connected water and sanitation systems.
- Ongoing upskilling and professional development connect plumbers to evolving technologies and enable long-term career growth and specialization.
- Skilled plumbers are in demand worldwide, ensuring job security and opportunities to build successful businesses across the global plumbing network.



FACTS & FIGURES



Investment in water and wastewater infrastructure supports long-term job growth and economic resilience.



The emerging circular water market opportunity (including reuse, resource recovery, and nature-based solutions) is valued at roughly tens of billions of dollars per year in the United States (Water Environment Federation)

\$61,550
annual salary

\$61,550: The median U.S. annual wage for plumbers as of May 2023. (*Bureau of Labor Statistics*)



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PLUMBING CONNECTS COMMUNITIES



Professional plumbing systems connect buildings, neighborhoods, and cities, forming a critical defense against waterborne diseases and public health threats.

- Investment in professional plumbing infrastructure strengthens connected systems, delivering public health benefits, reduced water waste, and economic development.
- Plumbers play a vital role in restoring connections after disruptions, helping communities recover by bringing essential water and sanitation services back online.
- Properly designed and maintained plumbing networks enable communities to withstand and recover from natural disasters while safeguarding public health.



FACTS & FIGURES

50%



**failure to
meet demand**

By 2071, nearly 50% of U.S. freshwater basins may fail to meet monthly water demand. *(Columbia University)*

2.8%



**rise in
water stress**

Global water stress rose 2.8% from 2015 to 2021, affecting 18.6% of the population. *(UN)*

\$1.4



**trillion in
recovery cost**

Since 2009, more than 3,000 natural disasters worldwide have caused \$1.4 trillion in recovery costs, with significant impacts on water infrastructure. *(High Tide Technologies)*



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PLUMBING CONNECTS CHALLENGES TO SOLUTIONS



The plumbing industry addresses complex challenges by improving the performance and affordability of connected water and sanitation systems.

- Solutions such as water reuse and smart plumbing systems integrate with existing networks to manage water safely and efficiently.
- Proper pipes, backflow prevention, and effective waste systems protect the integrity of connected water supplies, preventing contamination and environmental pollution.
- Plumbers integrate sustainable technologies into connected systems that reduce environmental impact while ensuring reliable performance and system resilience.



FACTS & FIGURES



\$177
billion in property

\$177 billion in urban property and 15 million people could be protected by investing in flood protection infrastructure by 2030. *(World Resources Institute)*



1.4
million lives

1.4 million lives per year could be saved by improving access to water, sanitation, and hygiene. *(World Health Organization)*



20%

Rainwater harvesting systems can reduce stormwater runoff volume by up to 20% in semi-arid regions, helping to prevent flooding and soil erosion in urban areas. *(Journal of the American Water Resources Association)*



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PLUMBING CONNECTS EVERYONE



Access to clean water and safe sanitation is a basic human right, and plumbing helps bridge the gap for underserved communities worldwide.

- The plumbing industry advances equitable access by designing and maintaining systems that deliver safe, reliable water for health, dignity, and quality of life.
- Expanding access to clean water and sanitation strengthens connected economies through improved public health and job growth.
- Plumbing systems connect diverse populations to the resources they need, creating pathways to better health outcomes and economic opportunity for all.



FACTS & FIGURES



40% of world lack safe drinking water

More than 40% of the world's population lacks safely managed sanitation (WHO)



443 Million school days lost

443 million school days are lost annually due to water-related diseases, primarily in underserved regions (*Change for Children*)



Inequality & Food Scarcity

High water stress disproportionately affects women and threatens food security in arid and semi-arid regions (*United Nations*).



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