

Due to water scarcity and inefficient use, many regions struggle with high consumption costs. The following elements make up the suggested Internet of Things–based smart water management system: Smart water meter: Provides real–time water consumption measurements., Leak detection sensor: Instantly sends out alerts when it detects leaks in taps and pipes., Mobile applications: Show data on water usage and offer analysis and suggestions to cut back. Furthermore, conventional systems are unable to offer in–depth analysis or suggestions for better usage patterns. The primary issue is the dearth of efficient instruments for tracking water usage and immediately identifying leaks. This results in substantial resource waste and higher user costs.