



# WEBSITE KEY TERMS

<a href="#">A</a>	<a href="#">B</a>	<a href="#">C</a>	<a href="#">D</a>	<a href="#">E</a>	<a href="#">F</a>	<a href="#">G</a>	<a href="#">H</a>
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## A

**Adaptability:** The ability of a system to adjust to varying conditions and requirements, providing tailored solutions for different environments.

<https://jumboblock.app/drought-and-heavy-rain>

<https://jumboblock.app/features>

**Adaptation:** The process of adjusting to new environmental conditions to mitigate harm or exploit beneficial opportunities.

<https://jumboblock.app/challenges>

<https://jumboblock.app/adaptation>

**Adaptation Measures:** Strategies and actions implemented to adjust to new climate realities, aiming to mitigate adverse effects and capitalize on potential opportunities.

<https://jumboblock.app/climate-tipping-points>

**Adaptation Strategy:** A plan or approach developed to adjust to new conditions, such as changing climate patterns, to mitigate potential negative impacts.

<https://jumboblock.app/waterstorage>

**Adaptation to Climate Change:** Adjustments in systems or practices to mitigate potential damage or benefit from opportunities associated with climate change.

<https://jumboblock.app/arguments>

<https://jumboblock.app/harbours>

**Advanced Modular System:** A construction approach using durable, reusable concrete blocks that can be adapted to various terrains and waterways for effective water management.

<https://jumboblock.app/municipalities>

**Agricultural Economics:** The sector focused on farming and food production, which can benefit from JUMBO BLOCK® systems for sustainable farming and efficient water use.

<https://jumboblock.app/use-cases>



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**Agriculture:** Farming sectors where using JUMBO BLOCK® systems in fields can retain water, improving irrigation efficiency and reducing soil erosion.

<https://jumboblock.app/usability>

**Airport Runways:** Airfield surfaces where placing JUMBO BLOCK® systems beneath can manage large volumes of water, ensuring operational safety.

<https://jumboblock.app/airports>

<https://jumboblock.app/usability>

**Airports:** Aviation facilities that can enhance safety and stability by implementing JUMBO BLOCK® systems for effective water management.

<https://jumboblock.app/airports>

<https://jumboblock.app/use-cases>

**Algal Blooms:** Rapid growth of algae in water bodies, often resulting from nutrient accumulation and leading to ecological imbalances and potential hazards.

<https://jumboblock.app/retention>

**Arguments:** Key points supporting the effectiveness and benefits of the JUMBO BLOCK® system in urban water management.

<https://jumboblock.app/product-1>

**Automated Control Systems:** Technology that uses data inputs to automatically manage and adjust operations without human intervention.

<https://jumboblock.app/data>

**Automated Decision-Making:** The use of technology to make decisions without human intervention, based on predefined criteria and real-time data.

<https://jumboblock.app/iot>

**Avoidance of Plastics:** A commitment to minimizing the use of plastics in construction to prevent environmental pollution, particularly the accumulation of microplastics in ecosystems. JUMBO BLOCK® emphasizes the use of sustainable materials to protect resources and ecosystems.

<https://jumboblock.app/materials>

<https://jumboblock.app/sustainability>



# WEBSITE KEY TERMS

## B

**Benefits and Magic:** Highlights the advantages and unique aspects of the JUMBO BLOCK® system in transforming urban landscapes into resilient, water-secure environments.

<https://jumboblock.app/benefits-and-magic>

**Billing Transparency:** The practice of providing clear and accessible information regarding charges and fees, enhancing trust and accountability.

<https://jumboblock.app/iot>

**Blog:** A section of the JUMBO BLOCK® website featuring articles and updates on topics related to water management, climate change adaptation, and the company's innovative solutions.

<https://jumboblock.app/blog>



# WEBSITE KEY TERMS

## C

**CO<sub>2</sub> Reduction:** Efforts to decrease carbon dioxide emissions; the system contributes by supporting vegetation preservation and carbon sequestration.

<https://jumboblock.app/environmental-protection>

**CO<sub>2</sub>-Reduced Green Concrete:** An environmentally friendly alternative to traditional concrete, incorporating sustainable materials such as low-CO<sub>2</sub> cement, recycled components like fly ash, and renewable fibers. This approach reduces CO<sub>2</sub> emissions and promotes biodiversity.

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/materials>

<https://jumboblock.app/sustainability>

**Carbonation Process:** A chemical reaction in concrete that can absorb CO<sub>2</sub>, contributing to carbon sequestration.

<https://jumboblock.app/development>

**Case Studies:** Real-world examples of how JUMBO BLOCK® systems have been implemented successfully in various projects to solve water-related issues.

<https://jumboblock.app/downloads>

**Challenges:** Difficulties or obstacles that need to be addressed, particularly in urban water management.

<https://jumboblock.app/challenges>

**Chemical Precipitation:** A process used to remove dissolved substances from water by converting them into a solid form that can be filtered out.

<https://jumboblock.app/road-retention>

**Chemical and Industrial Plants:** Facilities involved in manufacturing and processing, where JUMBO BLOCK® systems can address water management challenges efficiently.

<https://jumboblock.app/chemistry-and-industry>

**Circular Economy:** An economic system aimed at eliminating waste and the continual use of resources through principles like recycling, reusing, and reducing material consumption. JUMBO BLOCK® contributes to the circular economy by developing sustainable building materials.

<https://jumboblock.app/materials>

**Climate Adaptation:** Adjustments in practices, processes, and structures to mitigate potential damage from climate change effects.

<https://jumboblock.app/get-started>

**Climate Analysis:** Reports that explore the impacts of climate change, focusing on challenges like water scarcity and flooding, and how JUMBO BLOCK® addresses these issues.

<https://jumboblock.app/downloads>



# WEBSITE KEY TERMS

**Climate Change:** Long-term alterations in temperature and weather patterns, primarily due to human activities.

<https://jumboblock.app/challenges>

<https://jumboblock.app/flood>

<https://jumboblock.app/waterstorage>

<https://jumboblock.app/retention>

**Climate Change Adaptation:** Enhancements that increase resilience to heavy rain and drought, aiding communities in adapting to climate change.

<https://jumboblock.app/slopes-and-hillsides>

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/development>

<https://jumboblock.app/blog>

<https://jumboblock.app/climate-tipping-points>

**Climate Impact Research:** The study of how climate change affects natural and human systems, informing adaptation and mitigation strategies.

<https://jumboblock.app/get-started>

**Climate Protection:** Efforts and measures aimed at mitigating the effects of climate change and reducing greenhouse gas emissions.

<https://jumboblock.app/energy>

<https://jumboblock.app/faq>

**Climate Tipping Points:** Critical thresholds in the climate system, crossing which can lead to significant and irreversible changes.

<https://jumboblock.app/climate-tipping-points>

**Closed Rainwater Retention:** An approach where rainwater is stored in enclosed systems, such as underground blocks, minimizing risks of contamination and evaporation.

<https://jumboblock.app/retention>

**Cloud-Based Applications:** Software services hosted on remote servers, accessible via the internet, used for data storage, processing, and management.

<https://jumboblock.app/iot>

**Concrete:** A versatile building material composed of cement, sand, gravel, and water, known for its durability and structural stability. JUMBO BLOCK® utilizes concrete designed to last over 100 years without harming soil or water bodies.

<https://jumboblock.app/materials>

**Continual Improvement:** A permanent objective of the organization to continuously improve its overall performance.

<https://jumboblock.app/quality>

**Continuous Protection:** Uninterrupted safeguarding against potential threats or hazards, ensuring consistent safety.

<https://jumboblock.app/dikes>



# WEBSITE KEY TERMS

**Control Water Flow:** Techniques and systems designed to manage the movement of water within urban environments to prevent flooding and ensure efficient use.

<https://jumboblock.app/municipalities>

**Controlled Infiltration:** The deliberate management of water absorption into the soil to optimize moisture levels and prevent flooding in lower-lying areas.

<https://jumboblock.app/forestry>

**Cost Savings:** Reducing expenses through efficient resource management, such as repurposing collected rainwater for industrial applications.

<https://jumboblock.app/chemistry-and-industry>

**Cost-Effective:** Providing good value for the amount paid, especially in terms of long-term savings and efficiency.

<https://jumboblock.app/get-started>

<https://jumboblock.app/dikes>

**Creation of Retention Areas:** Developing spaces beneath urban infrastructure, including roads, car parks, meeting places, and parks, to store rainwater and reduce the strain on drainage systems.

<https://jumboblock.app/municipalities>

**Customization:** The system's flexibility allows it to be configured in various shapes, sizes, and heights to meet individual requirements and adapt to different topographical conditions.

<https://jumboblock.app/faq>



# WEBSITE KEY TERMS

## D

**Data:** Information on how IoT enhances system optimization, offering added value for municipalities and infrastructure operators.

<https://jumboblock.app/product-1>

**Data Analysis and Forecasting:** The process of examining collected data to identify patterns and trends, which can be used to predict future events or behaviors.

<https://jumboblock.app/data>

**Development:** The technical evolution and versatile application of the JUMBO BLOCK® system, showcasing its adaptability to various urban settings.

<https://jumboblock.app/product-1>

**Dikes:** Embankments constructed to prevent flooding where integrating JUMBO BLOCK® systems can enhance water retention and flood prevention capabilities.

<https://jumboblock.app/usability>

**Distributed Ledger Technology (DLT):** A digital system for recording transactions across multiple sites, providing security and transparency.

<https://jumboblock.app/development>

**Downloads:** A dedicated page providing access to a collection of documents, presentations, and resources about JUMBO BLOCK® systems and water management solutions.

<https://jumboblock.app/downloads>

**Dried-Out Soils:** Soils that have lost moisture, often due to prolonged drought or excessive evaporation.

<https://jumboblock.app/challenges>

**Drinking Water Treatment:** The process of making water suitable for drinking by removing contaminants and pathogens.

<https://jumboblock.app/road-retention>

**Drought Mitigation:** Measures implemented to reduce the adverse effects of drought conditions on water resources and ecosystems.

<https://jumboblock.app/iot>

**Drought Stress:** The adverse effects on forests due to prolonged periods of insufficient water supply, leading to decreased growth and increased vulnerability to diseases.

<https://jumboblock.app/forestry>

**Drought and Heavy Rainfall:** Extreme weather conditions characterized by prolonged dry periods or intense precipitation events.

<https://jumboblock.app/drought-and-heavy-rain>



# WEBSITE KEY TERMS

**Droughts:** Extended periods of deficient rainfall leading to water shortages, adversely impacting agriculture, ecosystems, and human communities.

<https://jumboblock.app/waterstorage>

**Durability:** The robust construction of the concrete blocks makes the system highly resistant to environmental and mechanical stresses, built for long-term durability with minimal maintenance.

<https://jumboblock.app/faq>

**Durability and Resilience:** The ability of a system or material to withstand wear, pressure, or damage, ensuring long-term reliability.

<https://jumboblock.app/water-scarcity>

**Durable Structure:** A construction designed to withstand wear, pressure, or damage, ensuring a long service life.

<https://jumboblock.app/dikes>





# WEBSITE KEY TERMS

## E

**Easy Maintenance:** The robust design requires minimal maintenance, with occasional inspections and cleaning keeping the system in optimal condition.

<https://jumboblock.app/features>

**Ecosystems:** Communities of living organisms interacting with their physical environment, which can be sensitive to changes in water availability.

<https://jumboblock.app/waterstorage>

**Educational Materials:** Resources designed to educate stakeholders on the benefits and applications of JUMBO BLOCK® systems in addressing climate challenges.

<https://jumboblock.app/downloads>

**Effective Flood Prevention:** Implementing strategies and systems, like JUMBO BLOCK® road retention, to target rainwater retention under roads, prevent sewer system overloads, and protect infrastructure from flooding.

<https://jumboblock.app/municipalities>

**Efficient Water Management:** Optimizing the use, storage, and distribution of water resources within industrial settings to enhance sustainability.

<https://jumboblock.app/chemistry-and-industry>

**Emission Reduction:** The process of lessening the amount of pollutants released into the atmosphere.

<https://jumboblock.app/challenges>

**Energy:** Sector where installing JUMBO BLOCK® systems with heat pumps can harness energy from stored water for heating or cooling, providing a sustainable energy solution.

<https://jumboblock.app/usability>

**Energy Efficiency and Sustainability:** Advancing measures and technologies to enhance energy efficiency and promote sustainable practices.

<https://jumboblock.app/adaptation>

**Energy Storage:** The capture of energy produced at one time for use at a later time, ensuring a reliable energy supply.

<https://jumboblock.app/energy>

**Energy-Saving Solutions:** Technologies and practices designed to reduce energy consumption, thereby decreasing environmental impact and conserving resources.

<https://jumboblock.app/sustainability>



# WEBSITE KEY TERMS

**Environmental Awareness:** Recognition and consideration of environmental impacts in decision-making processes.

<https://jumboblock.app/airports>

**Environmental Conservation:** Efforts to protect and preserve natural ecosystems and resources.

<https://jumboblock.app/flood>

**Environmental Friendliness:** The system uses sustainable and recycled materials, CO<sub>2</sub>-reduced green concretes, and reusable molds, designed to conserve resources and minimize environmental impact.

<https://jumboblock.app/faq>

**Environmental Protection:** Practices that aim to conserve the natural environment and resources, preventing pollution and degradation.

<https://jumboblock.app/arguments>

<https://jumboblock.app/harbours>

<https://jumboblock.app/airports>

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/sustainability>

<https://jumboblock.app/blog>

**Environmental Safety:** Ensuring that materials and systems used in construction, such as JUMBO BLOCK® concrete, are safe for groundwater and the environment, helping reduce waste and environmental impact.

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/sustainability>

<https://jumboblock.app/municipalities>

**Environmental and Nature Conservation:** Efforts aimed at protecting natural ecosystems, preserving biodiversity, and promoting sustainable interactions with the environment.

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/sustainability>

<https://jumboblock.app/jumbo-block>

**Environmentally Friendly Materials:** Substances used in production that have minimal negative impact on the environment, aligning with sustainable practices.

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/sustainability>

<https://jumboblock.app/moulds>

**Equipment and Infrastructure Protection:** Safeguarding critical machinery and structural components from water damage to ensure operational continuity.

<https://jumboblock.app/chemistry-and-industry>

**Erosion:** The gradual degradation of materials, such as soil or rock, due to natural forces like water or wind, leading to structural weakening.

<https://jumboblock.app/dikes>

<https://jumboblock.app/forestry>



# WEBSITE KEY TERMS

<https://jumboblock.app/slopes-and-hillsides>  
<https://jumboblock.app/adaptation>

**Evaporation:** The process by which water changes from a liquid to a gaseous state, entering the atmosphere.

<https://jumboblock.app/challenges>  
<https://jumboblock.app/retention>

**Extreme Loads:** Forces or weights that exceed typical conditions, requiring structures to have enhanced strength and resilience.

<https://jumboblock.app/statics>

**Extreme Weather Events:** Severe atmospheric conditions such as heavy rainfall, storms, and droughts that can cause significant damage.

<https://jumboblock.app/adaptation>  
<https://jumboblock.app/climate-tipping-points>



# WEBSITE KEY TERMS

## F

**FAQ:** Answers to common questions about the product, providing clarity on its functionality and applications.

<https://jumboblock.app/product-1>

**Factual Approach to Decision Making:** Making effective decisions based on the analysis of data and information.

<https://jumboblock.app/quality>

**Features:** Unique characteristics of the system that distinguish it from traditional water management solutions.

<https://jumboblock.app/product-1>

**Filtration:** The method of removing impurities or particles from a fluid by passing it through a porous medium or filter.

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/road-retention>

**Fire Hazards:** The potential for forest fires, which can be mitigated by maintaining adequate moisture levels through effective water management.

<https://jumboblock.app/forestry>

**Flash Floods:** Rapid flooding events typically caused by heavy rainfall overwhelming the capacity of natural and artificial drainage systems.

<https://jumboblock.app/drought-and-heavy-rain>

**Flexibility:** The design of systems like JUMBO BLOCK® to be both stable and flexible, allowing adaptation to local conditions and requirements, and creating effective retention and storage solutions that can be built over and driven on.

<https://jumboblock.app/municipalities>

<https://jumboblock.app/features>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/statics>

<https://jumboblock.app/agriculture>

<https://jumboblock.app/adaptation>

**Flood:** An overflow of water onto normally dry land, often caused by heavy rainfall or other natural events.

<https://jumboblock.app/flood>

**Flood Forecasting:** The use of data and models to predict the occurrence, timing, and severity of flooding events.

<https://jumboblock.app/data>



# WEBSITE KEY TERMS

**Flood Management:** Strategies and systems designed to control and mitigate the impact of flooding events.

<https://jumboblock.app/iot>

**Flood Prevention:** Strategies and measures implemented to reduce the risk and impact of flooding in various environments.

<https://jumboblock.app/get-started>

<https://jumboblock.app/municipalities>

<https://jumboblock.app/features>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/blog>

**Flood Protection:** Measures and systems implemented to prevent or mitigate the impact of flooding on communities and infrastructure.

<https://jumboblock.app/arguments>

<https://jumboblock.app/harbours>

<https://jumboblock.app/surface-sealing>

<https://jumboblock.app/slopes-and-hillsides>

<https://jumboblock.app/chemistry-and-industry>

<https://jumboblock.app/airports>

**Flood Protection Dikes:** Structures designed to prevent or mitigate flooding by containing or redirecting water flow.

<https://jumboblock.app/dikes>

**Flood Protection and Water Storage:** JUMBO BLOCK® street retention offers a revolutionary approach to managing rainwater beneath our roads. This technology not only provides effective flood protection but also supports water storage and reuse.

<https://jumboblock.app/adaptation>

**Flood Risk Reduction:** Controlling surface runoff and encouraging rainwater infiltration to protect infrastructure and ecosystems from flooding.

<https://jumboblock.app/environmental-protection>

**Flood Safety:** Measures and systems implemented to protect infrastructure and communities from the adverse effects of flooding, ensuring safety and resilience.

<https://jumboblock.app/retention>

**Flood-Prone Areas:** Regions susceptible to flooding where using JUMBO BLOCK® systems can enhance local water retention capabilities.

<https://jumboblock.app/usability>

**Flooding:** The overflow of water onto normally dry land, often caused by heavy rainfall or storm surges.

<https://jumboblock.app/challenges>



# WEBSITE KEY TERMS

**Floods:** Overflow of water onto normally dry land, often resulting from heavy rainfall, which can cause significant damage to infrastructure and ecosystems.

<https://jumboblock.app/waterstorage>

<https://jumboblock.app/flood>

**Forecasting:** The process of predicting future events or conditions, such as water levels, based on current and historical data.

<https://jumboblock.app/iot>

**Forestry:** The management and conservation of forests, where JUMBO BLOCK® systems can efficiently manage rainwater, reduce water shortages, and promote healthy tree growth.

<https://jumboblock.app/use-cases>

**Freshwater Supplies:** Sources of potable water, including rivers, lakes, and underground aquifers.

<https://jumboblock.app/challenges>



# WEBSITE KEY TERMS

## G

**Gateways:** Devices that connect different networks, facilitating communication between sensors and cloud-based applications.

<https://jumboblock.app/iot>

**Geosynthetic Materials:** Preferred for environmentally friendly retention areas, these materials reduce consumption and shorten construction times.

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/sustainability>

**Green Spaces:** Areas of vegetation in urban environments that improve air quality, provide recreational opportunities, and enhance biodiversity.

<https://jumboblock.app/drought-and-heavy-rain>

**Greenhouse Gases:** Gases such as carbon dioxide and methane that trap heat in the atmosphere, contributing to global warming.

<https://jumboblock.app/energy>

**Groundwater Formation:** The accumulation of water beneath the Earth's surface, which serves as a vital source for wells and springs.

<https://jumboblock.app/surface-sealing>

**Groundwater Recharge:** The process by which water moves downward from surface water to groundwater, replenishing aquifers.

<https://jumboblock.app/road-retention>

<https://jumboblock.app/infiltration>

**Groundwater Safety:** Ensuring that materials and practices do not contaminate underground water sources, maintaining the quality and safety of drinking water and natural habitats.

<https://jumboblock.app/sustainability>



# WEBSITE KEY TERMS

## H

**Harbors:** Port areas where installing JUMBO BLOCK® systems beneath surfaces can manage stormwater runoff and protect marine environments.

<https://jumboblock.app/usability>

<https://jumboblock.app/use-cases>

**Hazard Prevention:** Strategies and measures implemented to reduce the risk and impact of natural disasters, such as floods.

<https://jumboblock.app/flood>

**Heat Pump Technology:** A system that transfers heat from one place to another, often used for heating or cooling buildings by extracting heat from the environment.

<https://jumboblock.app/energy>

**Heating and Cooling:** The processes of raising or lowering the temperature of a space to achieve desired comfort levels.

<https://jumboblock.app/energy>

**Heavy Rain:** Intense rainfall events that can lead to flooding and waterlogging.

<https://jumboblock.app/challenges>

<https://jumboblock.app/drought-and-heavy-rain>

<https://jumboblock.app/get-started>

**Heavy-Duty Cover Plate:** A robust component of the system that provides structural integrity and protection to the underground blocks.

<https://jumboblock.app/benefits-and-magic>

**High Storage Capacity:** Each block offers 13.9 m<sup>3</sup> of storage, enabling significant water retention with fewer components.

<https://jumboblock.app/features>

**Highways:** Major roads where integrating JUMBO BLOCK® systems beneath can control stormwater, enhancing safety and infrastructure resilience.

<https://jumboblock.app/usability>

**Hollow Blocks:** Concrete blocks with hollow centers, designed for efficient construction and enhanced structural properties, produced using the crafted moulds.

<https://jumboblock.app/moulds>





# WEBSITE KEY TERMS



**IOTA:** A distributed ledger technology designed for the Internet of Things, enabling secure and feeless transactions with low energy consumption.

<https://jumboblock.app/iot>

<https://jumboblock.app/development>

**IPCC (Intergovernmental Panel on Climate Change):** A United Nations body responsible for assessing the science related to climate change, providing policymakers with regular scientific assessments.

<https://jumboblock.app/climate-tipping-points>

**Impervious Surfaces:** Surfaces that do not allow water to penetrate, leading to increased runoff and reduced groundwater recharge.

<https://jumboblock.app/water-scarcity>

**Inconspicuous Design:** The system is installed underground, preserving the aesthetics and functionality of the surrounding environment.

<https://jumboblock.app/benefits-and-magic>

**Industrial Areas:** Zones designated for manufacturing and industrial activities, which often require specialized infrastructure and water management solutions.

<https://jumboblock.app/surface-sealing>

<https://jumboblock.app/usability>

**Infiltration:** The process by which water permeates the soil, enhancing groundwater recharge and supporting tree root growth.

<https://jumboblock.app/forestry>

<https://jumboblock.app/usability>

<https://jumboblock.app/infiltration>

**Infrastructure Maintenance:** The routine upkeep and repair of physical structures and facilities to ensure their proper functioning and longevity.

<https://jumboblock.app/data>

**Infrastructure Protection:** Safeguard your buildings and urban infrastructure from rainwater flooding with our unlimited retention volume system.

<https://jumboblock.app/adaptation>

**Infrastructure Reliability:** The dependability of airport facilities and systems to function as intended over time.

<https://jumboblock.app/airports>

**Integration of Sewer and Utility Lines:** The process of incorporating sewer and utility infrastructure within the road retention system for efficient maintenance and expansion.

<https://jumboblock.app/road-retention>



# WEBSITE KEY TERMS

**Integration with Infrastructure:** The seamless incorporation of new systems into existing urban frameworks, enhancing efficiency and functionality without significant disruption.

<https://jumboblock.app/drought-and-heavy-rain>

<https://jumboblock.app/municipalities>

**Intelligent Maintenance:** Maintenance strategies that utilize data and predictive analytics to perform timely repairs and upkeep, ensuring optimal system performance.

<https://jumboblock.app/data>

**Intelligent Water Management:** IoT water level sensors offer real-time data on water levels, turning the system into an intelligent flood protection tool and a crucial resource for informed water management decisions.

<https://jumboblock.app/adaptation>

**IoT (Internet of Things):** A network of interconnected devices that communicate and exchange data over the internet, enabling real-time monitoring and control.

<https://jumboblock.app/iot>

<https://jumboblock.app/forestry>

<https://jumboblock.app/development>

<https://jumboblock.app/product-1>

<https://jumboblock.app/data>



# WEBSITE KEY TERMS

## J

**JUMBO BLOCK®:** A modular system designed to create large underground retention areas for effective water storage and management. An innovative solution designed to address water management challenges, including flood prevention and efficient water storage.

<https://jumboblock.app/benefits-and-magic>

<https://jumboblock.app/challenges>

<https://jumboblock.app/drought-and-heavy-rain>

<https://jumboblock.app/flood>

<https://jumboblock.app/product-1>

<https://jumboblock.app/infiltration>

<https://jumboblock.app/faq>

<https://jumboblock.app/waterstorage>

<https://jumboblock.app/retention>

<https://jumboblock.app/blog>

<https://jumboblock.app/climate-tipping-points>

**JUMBO BLOCK® Dikes:** Innovative flood protection solutions utilizing solid concrete blocks, offering enhanced durability and reduced maintenance compared to traditional dikes.

<https://jumboblock.app/dikes>

**JUMBO BLOCK® Street Retention System:** An innovative solution designed to combat water scarcity and reduce the environmental impacts of urbanization by retaining rainwater and promoting natural infiltration.

<https://jumboblock.app/water-scarcity>



# WEBSITE KEY TERMS

## L

**Large-Volume Solutions:** Innovative approaches designed to handle significant quantities of water, addressing challenges posed by extreme weather events.

<https://jumboblock.app/jumbo-block>

**Leadership:** A principle highlighting the role of leaders in establishing unity of purpose and direction, creating an environment where employees can achieve organizational objectives.

<https://jumboblock.app/quality>

**Livable Future:** A vision of the future where environmental, social, and economic systems are sustainable and provide a high quality of life.

<https://jumboblock.app/challenges>

**Livable Urban Environment:** Urban areas designed to provide a high quality of life, balancing development with environmental sustainability and resilience.

<https://jumboblock.app/drought-and-heavy-rain>

**LoRaWAN®:** A low-power, wide-area networking protocol designed for wireless battery-operated devices, ideal for transmitting sensor data over long distances.

<https://jumboblock.app/iot>

**LoRaWAN® Gateways:** Devices that transmit sensor data, especially in areas with weak connectivity.

<https://jumboblock.app/lora-components-1>

**LoRaWAN® Sensors:** Sensors that measure water levels and other environmental parameters, transmitting data over the LoRaWAN network.

<https://jumboblock.app/lora-components-1>

**Load Capacity:** The system can withstand loads exceeding 200 tons, making it suitable for heavily loaded infrastructures like airports and industrial facilities.

<https://jumboblock.app/benefits-and-magic>

<https://jumboblock.app/faq>

**Long-Term Rainwater Retention:** The ability to store rainwater effectively over extended periods, mitigating the risk of surface runoff and flash flooding.

<https://jumboblock.app/municipalities>

**Longevity and Low Maintenance:** The durable construction of the system ensures a long lifespan with minimal upkeep required.

<https://jumboblock.app/benefits-and-magic>



# WEBSITE KEY TERMS

## M

**Maintenance Costs and Efficiency:** Expenses associated with the upkeep and repair of infrastructure to ensure its proper functioning and longevity, and the effectiveness of maintenance practices in minimizing costs and resource usage over time..

<https://jumboblock.app/get-started>

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/arguments>

<https://jumboblock.app/features>

<https://jumboblock.app/faq>

<https://jumboblock.app/municipalities>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/dikes>

**Materials:** High-quality components used in the system, ensuring durability and reliability in water management applications.

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/product-1>

**Melting Glaciers:** The reduction of glacier mass, contributing to rising sea levels and freshwater scarcity.

<https://jumboblock.app/challenges>

**Microplastics:** Tiny plastic particles that degrade slowly and accumulate in the environment, posing risks to both ecosystems and human health. The European Union is considering restrictions on microplastics due to these concerns.

<https://jumboblock.app/materials>

<https://jumboblock.app/sustainability>

<https://jumboblock.app/environmental-protection>

**Minimizing Evaporation and Efficient Water Use:** Techniques to reduce water loss through evaporation, promoting more effective water usage in agriculture.

<https://jumboblock.app/agriculture>

**Modular Design:** Prefabricated, standardized units that can be assembled in various configurations to form larger structures.

<https://jumboblock.app/statics>

<https://jumboblock.app/flood>

<https://jumboblock.app/get-started>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/blog>

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/dikes>

<https://jumboblock.app/features>

<https://jumboblock.app/development>



# WEBSITE KEY TERMS

<https://jumboblock.app/water-scarcity>  
<https://jumboblock.app/faq>

**Municipalities:** Local government entities responsible for urban planning and infrastructure, which can implement JUMBO BLOCK® systems to enhance flood prevention and water management.

<https://jumboblock.app/municipalities>

<https://jumboblock.app/use-cases>

<https://jumboblock.app/arguments>

<https://jumboblock.app/features>

<https://jumboblock.app/faq>

<https://jumboblock.app/data>



# WEBSITE KEY TERMS

## N

**Natural Resource Protection:** Efforts aimed at conserving and sustainably managing natural resources to prevent depletion and environmental degradation.

<https://jumboblock.app/surface-sealing>



# WEBSITE KEY TERMS

## O

**Open Modular Construction:** A building technique that employs modular components in an open-ended system, facilitating customization and adaptability.

<https://jumboblock.app/jumbo-block>

**Open Rainwater Retention:** A method involving the collection of rainwater in open basins or ponds, which, while cost-effective, can lead to issues like algae growth and increased evaporation.

<https://jumboblock.app/retention>

**Operational Continuity:** Maintaining uninterrupted industrial operations, even in the face of adverse conditions like flooding.

<https://jumboblock.app/chemistry-and-industry>

<https://jumboblock.app/airports>

**Overbuilding:** The practice of constructing additional structures over existing ones, often to maximize land use without expanding the footprint.

<https://jumboblock.app/surface-sealing>





# WEBSITE KEY TERMS

## P

**Parched Soils:** Soils that have become extremely dry due to prolonged periods without rainfall, leading to reduced agricultural productivity and increased erosion.

<https://jumboblock.app/drought-and-heavy-rain>

**Parking Lots:** Areas designated for vehicle parking where JUMBO BLOCK® systems can be placed underneath to store rainwater and minimize surface runoff.

<https://jumboblock.app/usability>

**Patented System:** The JUMBO BLOCK® system is protected by patents and trademarks, highlighting its uniqueness in the market.

<https://jumboblock.app/faq>

**Permeable Reservoir:** A storage system that allows water to infiltrate into the ground, aiding in groundwater recharge and reducing surface runoff.

<https://jumboblock.app/infiltration>

**Population Growth:** The increase in the number of individuals in a population, intensifying the demand for water resources.

<https://jumboblock.app/water-scarcity>

<https://jumboblock.app/waterstorage>

**Precise Engineering:** The meticulous design and planning of structures to meet specific performance criteria and safety standards.

<https://jumboblock.app/statics>

**Precise and Efficient Irrigation with IoT:** Utilizing Internet of Things (IoT) technology to monitor and manage irrigation systems, enhancing precision and efficiency.

<https://jumboblock.app/agriculture>

**Precision Craftsmanship:** The meticulous skill and attention to detail applied by artisans in shaping and perfecting each unique JUMBO BLOCK® hollow body.

<https://jumboblock.app/moulds>

**Process Approach:** Managing activities and related resources as processes to achieve desired results more efficiently.

<https://jumboblock.app/quality>

**Public Parks:** Community green spaces where positioning JUMBO BLOCK® systems beneath pathways supports green infrastructure and water retention.

<https://jumboblock.app/usability>



# WEBSITE KEY TERMS

## Q

**Quality:** The emphasis on the system's reliability and longevity, highlighting its structural integrity and performance standards.

<https://jumboblock.app/product-1>



# WEBSITE KEY TERMS

## R

**Rainwater Harvesting:** The collection and storage of rainwater for reuse, reducing reliance on municipal water supplies and alleviating pressure on groundwater resources.

<https://jumboblock.app/infiltration>

**Rainwater Infiltration:** The process by which rainwater penetrates the soil, replenishing groundwater and maintaining the natural water cycle.

<https://jumboblock.app/surface-sealing>

**Rainwater Retention:** The process of capturing and storing rainwater to mitigate flooding and manage water resources effectively.

<https://jumboblock.app/drought-and-heavy-rain>

<https://jumboblock.app/forestry>

<https://jumboblock.app/chemistry-and-industry>

<https://jumboblock.app/airports>

<https://jumboblock.app/retention>

**Rainwater Storage and Infiltration:** Techniques to collect and absorb rainwater into the ground, replenishing groundwater and reducing surface runoff.

<https://jumboblock.app/usability>

<https://jumboblock.app/water-storage>

<https://jumboblock.app/use-cases>

<https://jumboblock.app/arguments>

<https://jumboblock.app/features>

<https://jumboblock.app/faq>

**Rainwater Utilization:** The collection and use of rainwater for various purposes, such as irrigation, industrial processes, or potable water supply, reducing reliance on traditional water sources.

<https://jumboblock.app/usability>

<https://jumboblock.app/blog>

**Real-Time Monitoring:** The continuous observation and reporting of system parameters as they occur, allowing for immediate response to changes.

<https://jumboblock.app/iot>

**Real-Time Water Level Monitoring:** The continuous observation and recording of water levels as they change, enabling immediate response to fluctuations.

<https://jumboblock.app/data>

**Recycling and Reusability:** The process of converting waste materials into new products and designing items for multiple uses to conserve resources and reduce environmental impact.

<https://jumboblock.app/development>

<https://jumboblock.app/sustainability>



# WEBSITE KEY TERMS

**Reducing Erosion and Stabilizing Soil:** Implementing practices to decrease soil erosion and enhance soil stability, supporting sustainable agriculture.

<https://jumboblock.app/agriculture>

**Residential Developments:** Housing areas where implementing JUMBO BLOCK® systems under roads can provide effective neighborhood water management.

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/usability>

<https://jumboblock.app/climate-tipping-points>

**Resource Conservation:** Efforts to use resources efficiently and responsibly, minimizing waste and preserving them for future use.

<https://jumboblock.app/airports>

<https://jumboblock.app/iot>

**Resource-Efficient Climate Control:** Systems designed to regulate indoor climates using minimal resources, enhancing sustainability.

<https://jumboblock.app/sustainability>

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/energy>

**Retention:** The targeted storage of rainwater to prevent flooding, especially in sealed and built-up areas. The capacity to hold or store water, particularly in the context of managing stormwater runoff.

<https://jumboblock.app/flood>

<https://jumboblock.app/retention>

<https://jumboblock.app/surface-sealing>

<https://jumboblock.app/jumbo-block>

**Risk Reduction:** Implementing strategies to minimize potential hazards and operational disruptions caused by flooding.

<https://jumboblock.app/chemistry-and-industry>

**Road Retention:** The practice of integrating water retention systems within roadways to capture and manage rainwater, reducing urban flooding and addressing water scarcity.

<https://jumboblock.app/road-retention>

**Robust Concrete Design:** A durable and strong concrete composition engineered to withstand significant stresses and environmental conditions.

<https://jumboblock.app/statics>

<https://jumboblock.app/features>

**Rural Roads:** Country roads where installing JUMBO BLOCK® systems can manage water flow and prevent erosion, maintaining road integrity.

<https://jumboblock.app/usability>



# WEBSITE KEY TERMS

## S

**Safe and Reliable Water Management:** Systems designed to handle water resources effectively, ensuring safety and dependability under challenging conditions.

<https://jumboblock.app/statics>

**Sea Level Rise:** The increase in global sea levels resulting from melting ice caps and thermal expansion of seawater.

<https://jumboblock.app/challenges>

**Sealed Reservoir:** A storage system designed to retain water without allowing infiltration, useful in areas where groundwater contamination is a concern.

<https://jumboblock.app/infiltration>

**Sealed Surfaces:** Urban areas covered by impermeable materials like asphalt and concrete, which prevent natural infiltration and increase surface runoff.

<https://jumboblock.app/infiltration>

**Sealed and Built-Up Areas:** Urban regions where natural land surfaces are covered by impermeable materials, hindering water infiltration.

<https://jumboblock.app/flood>

**Sealing:** The application of materials to prevent the passage of water or other substances, ensuring containment and preventing leaks.

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/benefits-and-magic>

**Security:** Measures such as encryption and authentication used to prevent unauthorized access and maintain data integrity through communication with the IOTA network.

<https://jumboblock.app/lora-components-1>

**Sedimentation:** The process by which particulate matter settles at the bottom of a liquid, used in water treatment to remove suspended solids.

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/benefits-and-magic>

**Sensors:** Devices that detect and measure physical properties, such as water levels, and convert them into data for monitoring and analysis.

<https://jumboblock.app/iot>

**Shallow Geothermal Energy:** The use of the Earth's near-surface heat for energy production, typically for heating and cooling applications.

<https://jumboblock.app/energy>



# WEBSITE KEY TERMS

**Slopes and Hillides:** Inclined terrains where deploying JUMBO BLOCK® systems beneath can stabilize the soil and manage water flow, preventing landslides.

<https://jumboblock.app/usability>

**Slow Infiltration:** The gradual absorption of water into the ground, replenishing groundwater and stabilizing nearby water levels.

<https://jumboblock.app/water-scarcity>

**Soil Erosion:** The gradual removal of topsoil by natural forces such as water or wind, which can be mitigated by the JUMBO BLOCK® system.

<https://jumboblock.app/environmental-protection>

<https://jumboblock.app/agriculture>

**Soil Permeability:** The capacity of soil to allow water to infiltrate, reducing surface runoff and promoting groundwater recharge.

<https://jumboblock.app/drought-and-heavy-rain>

**Soil Quality Improvement:** Enhancing soil health by reducing erosion, increasing moisture, and planting resilient vegetation, particularly in agricultural settings.

<https://jumboblock.app/environmental-protection>

**Soil Quality Improvement:** Enhancing the health and fertility of soil through practices like controlled infiltration, which supports plant growth and reduces erosion.

<https://jumboblock.app/infiltration>

<https://jumboblock.app/forestry>

**Solid Concrete Blocks:** Precast concrete units used in construction for their strength, stability, and resistance to environmental factors.

<https://jumboblock.app/dikes>

**Space Optimization:** Maximizing the efficient use of available space within industrial facilities, often through innovative design and planning.

<https://jumboblock.app/chemistry-and-industry>

<https://jumboblock.app/surface-sealing>

<https://jumboblock.app/flood>

**Stability and Structural Load Capacity:** The capacity of a structure to remain intact and functional under load, ensuring safety and usability.

<https://jumboblock.app/road-retention>

**Statics:** The system's load-bearing capacity and stability, making it suitable for modern infrastructure solutions.

<https://jumboblock.app/product-1>

**Storage Capacity:** Each block in the system provides a storage capacity of 13.9 cubic meters, allowing for significant water storage with fewer components.

<https://jumboblock.app/faq>



# WEBSITE KEY TERMS

**Storms:** Severe weather conditions characterized by strong winds, heavy rain, and other phenomena.

<https://jumboblock.app/challenges>

**Structural Changes:** Modifications made to existing buildings or infrastructure to improve functionality, safety, or compliance with regulations.

<https://jumboblock.app/surface-sealing>

**Structural Integrity:** The overall soundness of a structure, ensuring it performs its intended function safely over time.

<https://jumboblock.app/statics>

**Structural Robustness:** The strength and durability of a structure to withstand environmental stresses, ensuring longevity and safety.

<https://jumboblock.app/drought-and-heavy-rain>

**Structural Stability:** The ability of a structure to maintain its intended shape and support loads without collapsing or deforming.

<https://jumboblock.app/statics>

**Structural Weakening:** The loss of strength in a structure, making it more prone to damage or failure under stress.

<https://jumboblock.app/dikes>

**Supply Chain Security:** Ensuring that the production and distribution processes remain stable and reliable, safeguarding against disruptions.

<https://jumboblock.app/chemistry-and-industry>

**Surface Runoff:** Water flow that occurs when the soil is saturated or impermeable, leading to excess water moving over the land.

<https://jumboblock.app/challenges>

<https://jumboblock.app/drought-and-heavy-rain>

**Surface Sealing:** The covering of soil surfaces with impermeable materials like asphalt or concrete, which prevents natural water infiltration.

<https://jumboblock.app/surface-sealing>

<https://jumboblock.app/environmental-protection>

**Sustainability:** Meeting present needs without compromising the ability of future generations to meet their own needs, often by balancing environmental, social, and economic considerations.

<https://jumboblock.app/arguments>

<https://jumboblock.app/harbours>

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/features>

<https://jumboblock.app/airports>

<https://jumboblock.app/road-retention>

<https://jumboblock.app/benefits-and-magic>

<https://jumboblock.app/product-1>



# WEBSITE KEY TERMS

<https://jumboblock.app/sustainability>  
<https://jumboblock.app/environmental-protection>  
<https://jumboblock.app/agriculture>  
<https://jumboblock.app/drought-and-heavy-rain>  
<https://jumboblock.app/municipalities>  
<https://jumboblock.app/forestry>  
<https://jumboblock.app/adaptation>

**Sustainable Urban Development:** Development that meets the needs of the present without compromising the ability of future generations to meet their own needs, particularly in urban settings.

<https://jumboblock.app/road-retention>  
<https://jumboblock.app/challenges>  
<https://jumboblock.app/get-started>  
<https://jumboblock.app/iot>  
<https://jumboblock.app/development>  
<https://jumboblock.app/water-scarcity>  
<https://jumboblock.app/infiltration>  
<https://jumboblock.app/waterstorage>  
<https://jumboblock.app/retention>  
<https://jumboblock.app/blog>  
<https://jumboblock.app/chemistry-and-industry>  
<https://jumboblock.app/slopes-and-hillsides>

**System Approach to Management:** Understanding and managing interrelated processes as a system to enhance the organization's effectiveness and efficiency in achieving its objectives.  
<https://jumboblock.app/quality>

**System Solutions:** Documents highlighting the modular design and applications of JUMBO BLOCK® in various settings, such as urban areas, industrial sites, and agriculture.  
<https://jumboblock.app/downloads>





# WEBSITE KEY TERMS

## T

**Technical Presentations:** Detailed documents that explain the technical aspects of JUMBO BLOCK® solutions, including specifications and engineering data.

<https://jumboblock.app/downloads>

**Temperature Rise:** The increase in Earth's average surface temperature due to greenhouse gas emissions.

<https://jumboblock.app/challenges>

**Traditional Dikes:** Conventional flood barriers typically constructed from earth, sand, and clay, susceptible to erosion and requiring regular maintenance.

<https://jumboblock.app/dikes>

**Transparency and Trust:** The quality of being open and honest, which builds confidence in the reliability and integrity of a system or process.

<https://jumboblock.app/data>

**Two-Stage System:** A process or mechanism that operates in two distinct phases, often to improve efficiency or effectiveness.

<https://jumboblock.app/energy>



# WEBSITE KEY TERMS

## U

**Underground Water Reservoir:** A subterranean storage system designed to collect and retain water, which can be utilized for various purposes, including energy generation.

<https://jumboblock.app/energy>

**Unlimited Design Possibilities:** The flexibility in urban planning and architecture to create open or closed retention spaces, with options for overbuilding, using systems like JUMBO BLOCK®.

<https://jumboblock.app/municipalities>

**Urban Flood Risks:** The increased likelihood of flooding in cities due to factors like sealed surfaces, inadequate drainage systems, and climate change.

<https://jumboblock.app/infiltration>

<https://jumboblock.app/road-retention>

**Urban Resilience:** The capacity of urban areas to withstand and recover from adverse situations, such as extreme weather events and climate change impacts.

<https://jumboblock.app/get-started>

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/flood>

<https://jumboblock.app/blog>

**Urban Space Utilization:** The efficient use of city areas for multiple purposes, such as integrating water storage solutions beneath roads and buildings.

<https://jumboblock.app/development>

**Urban Streets:** City roadways where JUMBO BLOCK® systems can be installed beneath the surface to manage water retention and reduce urban flood risk.

<https://jumboblock.app/usability>

**Urban Surface Sealing Reduction:** Using the system as street retention under built-up areas to support rainwater retention and infiltration, maintaining natural water cycles.

<https://jumboblock.app/environmental-protection>



# WEBSITE KEY TERMS

## W

**Water Capacity:** Each JUMBO BLOCK® can store up to 13.9 cubic meters (13,900 liters) of water, facilitating large-scale water retention.

<https://jumboblock.app/benefits-and-magic>

**Water Crisis:** A situation where the available potable, unpolluted water within a region is less than that region's demand.

<https://jumboblock.app/challenges>

**Water Demand:** The total volume of water required by users, including households, agriculture, industry, and ecosystems, which can fluctuate based on various factors.

<https://jumboblock.app/waterstorage>

**Water Efficiency:** The effective use of water resources to minimize waste and maximize utility.

<https://jumboblock.app/data>

**Water Level Data:** Information collected regarding the height of water within a system, crucial for monitoring and managing water resources.

<https://jumboblock.app/iot>

**Water Level Sensors and IoT Applications:** The use of integrated water level sensors and Internet of Things applications to provide real-time monitoring and control of water levels, ensuring precise management, optimization, and early detection of potential issues.

<https://jumboblock.app/municipalities>

**Water Management:** The activity of planning, developing, distributing, and managing the optimum use of water resources.

<https://jumboblock.app/arguments>

<https://jumboblock.app/harbours>

<https://jumboblock.app/get-started>

<https://jumboblock.app/airports>

<https://jumboblock.app/climate-tipping-points>

<https://jumboblock.app/jumbo-block>

<https://jumboblock.app/downloads>

**Water Retention:** The capacity of a system to hold water, preventing immediate runoff and allowing for controlled release or absorption.

<https://jumboblock.app/challenges>

<https://jumboblock.app/parking-lots>

<https://jumboblock.app/water-scarcity>

<https://jumboblock.app/get-started>

**Water Scarcity:** The lack of sufficient available water resources to meet the demands of water usage within a region.



# WEBSITE KEY TERMS

<https://jumboblock.app/road-retention>  
<https://jumboblock.app/water-scarcity>  
<https://jumboblock.app/blog>

**Water Storage:** The accumulation of water in natural or artificial reservoirs for future use, ensuring a reliable water supply during dry periods.

<https://jumboblock.app/drought-and-heavy-rain>  
<https://jumboblock.app/forestry>  
<https://jumboblock.app/water-storage>  
<https://jumboblock.app/waterstorage>  
<https://jumboblock.app/retention>  
<https://jumboblock.app/get-started>  
<https://jumboblock.app/adaptation>  
<https://jumboblock.app/agriculture>  
<https://jumboblock.app/environmental-protection>  
<https://jumboblock.app/municipalities>

**Water-Resilient:** A vision of urban development that effectively manages water resources to withstand and adapt to climate-related challenges. Urban planning that incorporates strategies to manage water effectively, preventing floods and optimizing resource use.

<https://jumboblock.app/drought-and-heavy-rain>  
<https://jumboblock.app/municipalities>

**Weather Patterns:** The typical atmospheric conditions in a region over time, including temperature, humidity, and precipitation.

<https://jumboblock.app/challenges>

**Weathering Resistance:** The ability of a material or structure to withstand exposure to weather conditions without significant deterioration.

<https://jumboblock.app/dikes>