

# Global Flash Flood Monitoring and Early Warning System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G67A6DF8CE81EN.html>

Date: June 2026

Pages: 151

Price: US\$ 3,480.00 (Single User License)

ID: G67A6DF8CE81EN

## Abstracts

According to our (Global Info Research) latest study, the global Flash Flood Monitoring and Early Warning System market size was valued at US\$ 1214 million in 2025 and is forecast to a readjusted size of US\$ 2116 million by 2032 with a CAGR of 8.2% during review period.

A Flash Flood Monitoring and Early Warning System is a specialized disaster-risk-reduction system designed for mountainous catchments, small watersheds, gullies, streams, low-water crossings, downstream reservoir areas, and other locations exposed to rapidly developing flood hazards. The system typically consists of a sensing layer, telemetry layer, data and application platform, forecasting and threshold model layer, and warning dissemination layer. Key field components include automatic rain gauges, radar or pressure water-level sensors, radar velocity meters, hydrological data loggers, RTUs, cameras, GNSS or slope-monitoring devices, sirens, warning lights, loudspeakers, and emergency broadcast terminals. Communication links may include radio, cellular, LoRa, NB-IoT, satellite communication, or BeiDou short messages. The platform integrates real-time data acquisition, quality control, GIS visualization, device management, dynamic thresholds, hydrological modelling, alert workflows, and mobile applications. Its core purpose is to detect rainfall and water-level changes early enough to support actionable alerts, emergency response, and evacuation decisions.

According to our research, the flash flood monitoring and early warning system market should be understood as an integrated public-safety and hydrometeorological decision-support market rather than a single hardware market. Its value chain combines field sensors, telemetry, data acquisition, forecasting models, GIS-based platforms, alert workflows, sirens, public warning devices, and long-term maintenance services.

Compared with conventional river flood forecasting, flash flood warning deals with smaller catchments, shorter response time, higher rainfall uncertainty, and much narrower evacuation windows. This makes station density, data latency, communication resilience, local thresholds, and last-mile alert delivery as important as sensor accuracy. In China, the market is shaped by mountain-torrent disaster prevention, water-disaster defense, “forecasting, warning, rehearsal, and contingency plan” platforms, and digital-twin river basin programs. In North America and Europe, the main upgrade themes are ALERT/ALERT2 modernization, low-water crossing warning, radar-based non-contact hydrology, and multi-hazard early warning systems.

Demand growth is supported by more frequent extreme rainfall, increasing investment in disaster-risk reduction, and the modernization of aging hydromet networks. Existing systems are being upgraded from manual inspection, low-frequency telemetry, and static thresholds toward radar water-level sensing, non-contact discharge measurement, ALERT2, cloud-based platforms, dynamic thresholds, and mobile alerting. The demand case is strongest where short lead times make local observation indispensable, such as mountainous watersheds, urban flash-flood hotspots, bridges, underpasses, low-water crossings, campgrounds, and downstream communities below reservoirs. At the policy level, multi-hazard early warning initiatives are encouraging governments to connect meteorological, hydrological, emergency management, transportation, and local community response systems into a more actionable warning chain.

From a technology perspective, the industry is shifting from “monitoring infrastructure” to “real-time risk-to-action systems.” Radar level and velocity sensors are gaining share because they reduce maintenance and improve safety during high-flow events. Low-power IoT sensors make it feasible to monitor more small catchments and temporary hotspots. Forecasting platforms are integrating ground gauges, radar and satellite rainfall, upstream water levels, terrain, soil moisture, vulnerability data, and historical hazard records. Warning dissemination is also moving beyond SMS toward multi-channel delivery, including apps, sirens, loudspeakers, warning lights, LED signs, phone call-down systems, and emergency command platforms. In this environment, future competitive advantage will depend less on equipment price alone and more on data continuity, model credibility, operational workflow, and last-mile warning reliability.

This report is a detailed and comprehensive analysis for global Flash Flood Monitoring and Early Warning System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends,

as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Flash Flood Monitoring and Early Warning System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Flash Flood Monitoring and Early Warning System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Flash Flood Monitoring and Early Warning System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Flash Flood Monitoring and Early Warning System market shares of main players, in revenue (\$ Million), 2021-2026

#### The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Flash Flood Monitoring and Early Warning System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Flash Flood Monitoring and Early Warning System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Xylem Inc., AEM, KISTERS AG, Deltares, DHI Group, Hydro International, HWM Global, Vaisala Oyj, Hydrologic Research Center, FloodMapp, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market segmentation

Flash Flood Monitoring and Early Warning System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

- Meteorological Monitoring System
- Hydrological Monitoring System
- Geological Monitoring System
- Data Acquisition and Transmission System
- Others

### Market segment by System Layer

- Sensing Layer
- Telemetry Layer
- Platform Layer
- Forecasting & Warning Layer
- Dissemination Layer

### Market segment by Technology Route

- Gauge-based Threshold Warning
- Radar / Satellite-aided Forecasting

Hydrological Model-based Forecasting

Other

#### Market segment by Application

Mountain Watershed

Low-water Crossing

Reservoir Downstream

Urban Flash Flood Hotspot

Campground / Recreation Area

Transportation Infrastructure

Other

#### Market segment by players, this report covers

Xylem Inc.

AEM

KISTERS AG

Deltares

DHI Group

Hydro International

HWM Global

Vaisala Oyj

Hydrologic Research Center

FloodMapp

Streamline Technologies, Inc.

Ovarro

Beijing Huitu Technology (Group) Co., Ltd.

Summit Technology Co., Ltd.

Zhongshui Sanli Data Technology Co., Ltd.

Xiamen Four-Faith Communication Technology Co., Ltd.

Hongdian Corporation

Beijing Heroan Technology Co., Ltd.

Xiamen Top-IoT Technology Co., Ltd.

Xiamen Caimore Communication Technology Co., Ltd.

Libelium

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Flash Flood Monitoring and Early Warning System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Flash Flood Monitoring and Early Warning System, with revenue, gross margin, and global market share of Flash Flood Monitoring and Early Warning System from 2021 to 2026.

Chapter 3, the Flash Flood Monitoring and Early Warning System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Flash Flood Monitoring and Early Warning System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Flash Flood Monitoring and Early Warning System.

Chapter 13, to describe Flash Flood Monitoring and Early Warning System research findings and conclusion.

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