



The VR-Design Studio xpswmm plug-in enables FORUM 8 users to add value to 2D flood modeling data from this FEMA approved software, by turning it into an interactive 3D real-time VR photorealistic environment.

Applications include floodplain and river management analysis, emergency what-if design scenarios and Tsunami planning through realistic visualization.

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xpswmm is a comprehensive software package for dynamic modeling of stormwater, sanitary or combined systems, and river systems. It is used by scientists, engineers and managers to develop link-node (1D) and spatially distributed hydraulic models (2D) for analysis and design. Its use over the last 25 years has made it one of the most stable and well-used simulation software programs in the world.

xpswmm simulates natural rainfall-runoff processes and the hydraulic performance of drainage systems used to manage our water resources. It allows integrated analysis of flow and pollutant transport in engineered and natural systems including ponds, rivers, lakes, overland floodplains and the interaction with groundwater.

Use **xpswmm** for fully integrated hydrologic and hydraulic modeling – simulate the whole water cycle in one system! This comprehensive software will allow you to **model with confidence**.

Floodplain Management & River Systems



- 1D/2D river hydraulic performance
- Floodplain mapping and flood hazard analysis
- Evacuation Route planning
- Interior drainage (levee-protected areas) analysis
- Culvert and bridge hydraulics
- Fully coupled urban and river drainage systems



xp2D for **xpswmm** and **xpstorm** has been approved by the United States Federal Emergency Management Agency (FEMA) for two-dimensional flood modeling and mapping for the National Flood Insurance Program (NFIP). This official approval further reinforces the suitability, accuracy and ease-of-use of these software programs for complex flooding analysis and mapping. The **xpswmm** and **xpstorm** programs have been FEMA approved for one-dimensional modeling since 2003.

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...market leading Japanese

Interactive 3D VR Simulation & Modelling Technology

...for improved urban, transport, pedestrian, emergency & security design & planning, driving simulation, public consultation and human factors research

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